

DATA PACKAGE VOLATILE ORGANICS

PROJECT NAME : RFP 890

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

**ORDER ID : P5088
ATTENTION : Smita Sumbaly**



Laboratory Certification ID # 20012



1) VOLATILES DATA	2
2) Signature Page	4
3) Case Narrative	5
4) Qualifier Page	7
5) Conformance/Non Conformance	8
6) QA Checklist	10
7) Chronicle	11
8) Hit Summary	12
9) QC Data Summary For VOCMS Group1	13
9.1) Deuterated Monitoring Compound Summary	14
9.2) MS/MSD Summary	15
9.3) LCS/LCSD Summary	17
9.4) Method Blank Summary	19
9.5) GS/MS Tune Summary	21
9.6) Internal Standard Area and RT Summary	24
10) Sample Data	28
10.1) TB-241203-01	29
10.2) UNIT-51-FS-SW001-01	37
10.3) UNIT-51-RS-SW001-01	45
10.4) UNIT-51-RS-SW001-02	53
11) Calibration Data Summary	61
11.1) Initial Calibration Data	62
11.1.1) VN112224	62
11.2) Continued Calibration Data	431
11.2.1) VN085084.D	431
11.2.2) VN085106.D	490
12) QC Sample Data	549
12.1) Tune Raw Data	550
12.2) Method Blank Data	553
12.3) LCS Data	567
12.4) MS Data	673
12.5) MSD Data	726
13) Manual Integration	779
14) Analytical Runlogs	783
15) Standard Prep Logs	792

Table Of Contents for P5088

16) Shipping Document	867
16.1) Chain Of Custody	868
16.2) Lab Certificate	871
16.3) Internal COC	872

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

Cover Page

Order ID : P5088

Project ID : RFP 890

Client : Weston Solutions, Inc.

Lab Sample Number

P5088-01
P5088-02
P5088-03
P5088-04
P5088-05
P5088-06

Client Sample Number

TB-241203-01
UNIT-51-FS-SW001-01
UNIT-51-RS-SW001-01
UNIT-51-RS-SW001-01MS
UNIT-51-RS-SW001-01MSD
UNIT-51-RS-SW001-02

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: 12/10/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Weston Solutions, Inc.

Project Name: RFP 890

Project # N/A

Chemtech Project # P5088

Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:

6 Water samples were received on 12/04/2024.

B. Parameters

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

C. Analytical Techniques:

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

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS recoveries met the requirements for all compounds .

The MSD recoveries met the acceptable requirements .

The RPD met criteria .

The Blank Spike met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

E. 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.



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

V_o = Volume of water purged in milliliters (mL)

D_f = Dilution factor.

F. 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.

G. 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: P5088

MATRIX: Water

METHOD: 8260D

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements . The Continuous Calibration met the requirements .			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓
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 MS recoveries met the requirements for all compounds . The MSD recoveries met the acceptable requirements . The RPD met criteria . The Blank Spike met requirements for all samples .			✓
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓
10.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:			✓

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

NA NO YES

ADDITIONAL COMMENTS:

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 #: P5088

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: 12/10/2024

LAB CHRONICLE

OrderID:	P5088	OrderDate:	12/4/2024 11:26:21 AM
Client:	Weston Solutions, Inc.	Project:	RFP 890
Contact:	Smita Sumbaly	Location:	VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5088-01	TB-241203-01	Water	VOCMS Group1	8260-Low	12/03/24		12/05/24	12/04/24
P5088-02	UNIT-51-FS-SW001-01	Water	VOCMS Group1	8260-Low	12/03/24		12/04/24	12/04/24
P5088-03	UNIT-51-RS-SW001-01	Water	VOCMS Group1	8260-Low	12/03/24		12/04/24	12/04/24
P5088-06	UNIT-51-RS-SW001-02	Water	VOCMS Group1	8260-Low	12/03/24		12/04/24	12/04/24

Hit Summary Sheet
SW-846

SDG No.: P5088
Client: Weston Solutions, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: P5088-02	UNIT-51-FS-SW001-01 UNIT-51-FS-SW00	Water	Trichloroethene	4.70		0.32	1.00	ug/L
			Total Voc :	4.70				
			Total Concentration:	4.70				
Client ID: P5088-03	UNIT-51-RS-SW001-01 UNIT-51-RS-SW00	Water	Trichloroethene	0.76	J	0.32	1.00	ug/L
			Total Voc :	0.76				
			Total Concentration:	0.76				
Client ID: P5088-06	UNIT-51-RS-SW001-02 UNIT-51-RS-SW00	Water	Trichloroethene	0.66	J	0.32	1.00	ug/L
			Total Voc :	0.66				
			Total Concentration:	0.66				



QC SUMMARY

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Surrogate Summary

SDG No.: **P5088**

Client: **Weston Solutions, Inc.**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P5088-01	TB-241203-01	1,2-Dichloroethane-d4	50	53.2	106	70 (74)	130 (125)
		Dibromofluoromethane	50	51.3	103	70 (75)	130 (124)
		Toluene-d8	50	48.2	96	70 (86)	130 (113)
		4-Bromofluorobenzene	50	43.7	87	70 (77)	130 (121)
P5088-02	UNIT-51-FS-SW001-01	1,2-Dichloroethane-d4	50	52.5	105	70 (74)	130 (125)
		Dibromofluoromethane	50	50.8	102	70 (75)	130 (124)
		Toluene-d8	50	47.5	95	70 (86)	130 (113)
		4-Bromofluorobenzene	50	43.0	86	70 (77)	130 (121)
P5088-03	UNIT-51-RS-SW001-01	1,2-Dichloroethane-d4	50	52.5	105	70 (74)	130 (125)
		Dibromofluoromethane	50	49.7	99	70 (75)	130 (124)
		Toluene-d8	50	47.1	94	70 (86)	130 (113)
		4-Bromofluorobenzene	50	43.1	86	70 (77)	130 (121)
P5088-04MS	UNIT-51-RS-SW001-01MS	1,2-Dichloroethane-d4	50	51.0	102	70 (74)	130 (125)
		Dibromofluoromethane	50	54.2	108	70 (75)	130 (124)
		Toluene-d8	50	52.6	105	70 (86)	130 (113)
		4-Bromofluorobenzene	50	53.0	106	70 (77)	130 (121)
P5088-05MSD	UNIT-51-RS-SW001-01MSD	1,2-Dichloroethane-d4	50	49.4	99	70 (74)	130 (125)
		Dibromofluoromethane	50	51.1	102	70 (75)	130 (124)
		Toluene-d8	50	50.0	100	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.2	102	70 (77)	130 (121)
P5088-06	UNIT-51-RS-SW001-02	1,2-Dichloroethane-d4	50	52.5	105	70 (74)	130 (125)
		Dibromofluoromethane	50	50.1	100	70 (75)	130 (124)
		Toluene-d8	50	46.4	93	70 (86)	130 (113)
		4-Bromofluorobenzene	50	40.9	82	70 (77)	130 (121)
VN1204WBL01	VN1204WBL01	1,2-Dichloroethane-d4	50	51.3	103	70 (74)	130 (125)
		Dibromofluoromethane	50	51.0	102	70 (75)	130 (124)
		Toluene-d8	50	47.3	95	70 (86)	130 (113)
		4-Bromofluorobenzene	50	43.2	86	70 (77)	130 (121)
VN1204WBS01	VN1204WBS01	1,2-Dichloroethane-d4	50	48.3	97	70 (74)	130 (125)
		Dibromofluoromethane	50	50.9	102	70 (75)	130 (124)
		Toluene-d8	50	49.6	99	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.1	96	70 (77)	130 (121)
VN1205WBL01	VN1205WBL01	1,2-Dichloroethane-d4	50	51.7	103	70 (74)	130 (125)
		Dibromofluoromethane	50	50.5	101	70 (75)	130 (124)
		Toluene-d8	50	48.3	97	70 (86)	130 (113)
		4-Bromofluorobenzene	50	44.0	88	70 (77)	130 (121)
VN1205WBS01	VN1205WBS01	1,2-Dichloroethane-d4	50	50.8	102	70 (74)	130 (125)
		Dibromofluoromethane	50	53.1	106	70 (75)	130 (124)
		Toluene-d8	50	50.8	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.2	100	70 (77)	130 (121)

() = LABORATORY INHOUSE LIMIT

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5088

Client: Weston Solutions, Inc.

Analytical Method: SW8260-Low

										Limits		
Parameter	Spike	Sample	Result	Units	Rec		RPD	RPD	Qual	Low	High	RPD
		Result			Rec	Qual						
Lab Sample ID :	P5088-04MS	Client Sample ID :	UNIT-51-RS-SW001-01MS					Datafile :	VN085102.D			
Vinyl chloride	50	0	42.5	ug/L	85					70 (69)	130 (125)	
1,1-Dichloroethene	50	0	46.8	ug/L	94					70 (53)	130 (162)	
Methylene Chloride	50	0	46.6	ug/L	93					70 (79)	130 (115)	
trans-1,2-Dichloroethene	50	0	45.2	ug/L	90					70 (76)	130 (118)	
1,1-Dichloroethane	50	0	49.2	ug/L	98					70 (78)	130 (122)	
Carbon Tetrachloride	50	0	52.2	ug/L	104					70 (66)	130 (133)	
cis-1,2-Dichloroethene	50	0	50.0	ug/L	100					70 (82)	130 (124)	
1,1,1-Trichloroethane	50	0	50.1	ug/L	100					70 (83)	130 (117)	
Trichloroethene	50	0.76	50.5	ug/L	99					70 (28)	130 (175)	
1,1,2-Trichloroethane	50	0	56.5	ug/L	113					70 (27)	130 (175)	
Tetrachloroethene	50	0	47.5	ug/L	95					70 (48)	130 (153)	
1,2,3-Trichloropropane	50	0	52.8	ug/L	106					70 (68)	130 (128)	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5088

Client: Weston Solutions, Inc.

Analytical Method: SW8260-Low

Limits											
Parameter	Spike	Sample Result	Result	Units	Rec	Qual	RPD	RPD	Low	High	RPD
Lab Sample ID :	P5088-05MSD	Client Sample ID :	UNIT-51-RS-SW001-01MSD					Datafile :	VN085103.D		
Vinyl chloride	50	0	41.9	ug/L	84		1		70 (69)	130 (125)	20 (20)
1,1-Dichloroethene	50	0	46.1	ug/L	92		2		70 (53)	130 (162)	20 (20)
Methylene Chloride	50	0	45.3	ug/L	91		3		70 (79)	130 (115)	20 (20)
trans-1,2-Dichloroethene	50	0	43.9	ug/L	88		3		70 (76)	130 (118)	20 (20)
1,1-Dichloroethane	50	0	48.2	ug/L	96		2		70 (78)	130 (122)	20 (20)
Carbon Tetrachloride	50	0	50.1	ug/L	100		4		70 (66)	130 (133)	20 (20)
cis-1,2-Dichloroethene	50	0	47.5	ug/L	95		5		70 (82)	130 (124)	20 (20)
1,1,1-Trichloroethane	50	0	48.9	ug/L	98		2		70 (83)	130 (117)	20 (20)
Trichloroethene	50	0.76	48.4	ug/L	95		4		70 (28)	130 (175)	20 (20)
1,1,2-Trichloroethane	50	0	55.1	ug/L	110		3		70 (27)	130 (175)	20 (20)
Tetrachloroethene	50	0	44.2	ug/L	88		7		70 (48)	130 (153)	20 (20)
1,2,3-Trichloropropane	50	0	54.6	ug/L	109		3		70 (68)	130 (128)	20 (20)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5088

Client: Weston Solutions, Inc.

Analytical Method: SW8260-Low

Datafile : VN085087.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1204WBS01	Vinyl chloride	20	18.8	ug/L	94			70 (65)	130 (117)	
	1,1-Dichloroethene	20	20.4	ug/L	102			70 (74)	130 (110)	
	Methylene Chloride	20	19.2	ug/L	96			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	20.2	ug/L	101			70 (75)	130 (108)	
	1,1-Dichloroethane	20	20.1	ug/L	101			70 (78)	130 (112)	
	Carbon Tetrachloride	20	22.4	ug/L	112			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	20.2	ug/L	101			70 (77)	130 (110)	
	1,1,1-Trichloroethane	20	20.4	ug/L	102			70 (80)	130 (108)	
	Trichloroethene	20	21.2	ug/L	106			70 (77)	130 (113)	
	1,1,2-Trichloroethane	20	22.2	ug/L	111			70 (83)	130 (112)	
	Tetrachloroethene	20	21.7	ug/L	109			70 (67)	130 (123)	
	1,2,3-Trichloropropane	20	20.9	ug/L	104			70 (75)	130 (112)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5088

Client: Weston Solutions, Inc.

Analytical Method: SW8260-Low

Datafile : VN085109.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1205WBS01	Vinyl chloride	20	18.9	ug/L	95			70 (65)	130 (117)	
	1,1-Dichloroethene	20	20.7	ug/L	104			70 (74)	130 (110)	
	Methylene Chloride	20	20.1	ug/L	101			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	20.0	ug/L	100			70 (75)	130 (108)	
	1,1-Dichloroethane	20	20.5	ug/L	103			70 (78)	130 (112)	
	Carbon Tetrachloride	20	22.1	ug/L	111			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	20.8	ug/L	104			70 (77)	130 (110)	
	1,1,1-Trichloroethane	20	21.6	ug/L	108			70 (80)	130 (108)	
	Trichloroethene	20	21.8	ug/L	109			70 (77)	130 (113)	
	1,1,2-Trichloroethane	20	23.8	ug/L	119			70 (83)	130 (112)	
	Tetrachloroethene	20	24.2	ug/L	121			70 (67)	130 (123)	
	1,2,3-Trichloropropane	20	23.7	ug/L	119			70 (75)	130 (112)	

() = LABORATORY INHOUSE LIMIT

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1204WBL01

Lab Name: CHEMTECH

Contract: ROYF02

Lab Code: CHEM Case No.: P5088

SAS No.: P5088 SDG NO.: P5088

Lab File ID: VN085086.D

Lab Sample ID: VN1204WBL01

Date Analyzed: 12/04/2024

Time Analyzed: 11:50

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
VN1204WBS01	VN1204WBS01	VN085087.D	12/04/2024
UNIT-51-FS-SW001-01	P5088-02	VN085099.D	12/04/2024
UNIT-51-RS-SW001-02	P5088-06	VN085100.D	12/04/2024
UNIT-51-RS-SW001-01	P5088-03	VN085101.D	12/04/2024
UNIT-51-RS-SW001-01MS	P5088-04MS	VN085102.D	12/04/2024
UNIT-51-RS-SW001-01MSD	P5088-05MSD	VN085103.D	12/04/2024

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1205WBL01

Lab Name: CHEMTECH

Contract: ROYF02

Lab Code: CHEM Case No.: P5088

SAS No.: P5088 SDG NO.: P5088

Lab File ID: VN085108.D

Lab Sample ID: VN1205WBL01

Date Analyzed: 12/05/2024

Time Analyzed: 11:49

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
VN1205WBS01	VN1205WBS01	VN085109.D	12/05/2024
TB-241203-01	P5088-01	VN085113.D	12/05/2024

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
 BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ROYF02
 Lab Code: CHEM Case No.: P5088 SAS No.: P5088 SDG NO.: P5088
 Lab File ID: VN085003.D BFB Injection Date: 11/22/2024
 Instrument ID: MSVOA_N BFB Injection Time: 09:29
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.7
75	30.0 - 60.0% of mass 95	48.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.8 (1.1) 1
174	50.0 - 100.0% of mass 95	73.5
175	5.0 - 9.0% of mass 174	5.5 (7.5) 1
176	95.0 - 101.0% of mass 174	70.7 (96.2) 1
177	5.0 - 9.0% of mass 176	4.6 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC100	VSTDICC100	VN085005.D	11/22/2024	11:22
VSTDICCC050	VSTDICCC050	VN085006.D	11/22/2024	11:46
VSTDICC020	VSTDICC020	VN085007.D	11/22/2024	12:10
VSTDICC010	VSTDICC010	VN085008.D	11/22/2024	12:34
VSTDICC005	VSTDICC005	VN085009.D	11/22/2024	12:57
VSTDICC001	VSTDICC001	VN085010.D	11/22/2024	13:45

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
 BROMOFLUOROBENZENE (BFB)

Lab Name:	<u>CHEMTECH</u>	Contract:	<u>ROYF02</u>
Lab Code:	<u>CHEM</u>	Case No.:	<u>P5088</u>
Lab File ID:	<u>VN085083.D</u>	SAS No.:	<u>P5088</u>
Instrument ID:	<u>MSVOA_N</u>	SDG NO.:	<u>P5088</u>
GC Column:	<u>RXI-624</u>	BFB Injection Date:	<u>12/04/2024</u>
ID:	<u>0.25</u>	BFB Injection Time:	<u>09:00</u>
(mm)		Heated Purge:	<u>Y/N</u>
			<u>N</u>

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.6
75	30.0 - 60.0% of mass 95	52
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.7 (0.9) 1
174	50.0 - 100.0% of mass 95	75.4
175	5.0 - 9.0% of mass 174	5.5 (7.2) 1
176	95.0 - 101.0% of mass 174	74.2 (98.4) 1
177	5.0 - 9.0% of mass 176	5 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN085084.D	12/04/2024	09:51
VN1204WBL01	VN1204WBL01	VN085086.D	12/04/2024	11:50
VN1204WBS01	VN1204WBS01	VN085087.D	12/04/2024	12:14
UNIT-51-FS-SW001-01	P5088-02	VN085099.D	12/04/2024	17:13
UNIT-51-RS-SW001-02	P5088-06	VN085100.D	12/04/2024	17:37
UNIT-51-RS-SW001-01	P5088-03	VN085101.D	12/04/2024	18:01
UNIT-51-RS-SW001-01MS	P5088-04MS	VN085102.D	12/04/2024	18:25
UNIT-51-RS-SW001-01MSD	P5088-05MSD	VN085103.D	12/04/2024	18:49

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
 BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ROYF02
 Lab Code: CHEM Case No.: P5088 SAS No.: P5088 SDG NO.: P5088
 Lab File ID: VN085105.D BFB Injection Date: 12/05/2024
 Instrument ID: MSVOA_N BFB Injection Time: 08:29
 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	18.8
75	30.0 - 60.0% of mass 95	52.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.8 (1) 1
174	50.0 - 100.0% of mass 95	75.2
175	5.0 - 9.0% of mass 174	6 (7.9) 1
176	95.0 - 101.0% of mass 174	72.8 (96.8) 1
177	5.0 - 9.0% of mass 176	4.8 (6.6) 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	VN085106.D	12/05/2024	10:50
VN1205WBL01	VN1205WBL01	VN085108.D	12/05/2024	11:49
VN1205WBS01	VN1205WBS01	VN085109.D	12/05/2024	12:13
TB-241203-01	P5088-01	VN085113.D	12/05/2024	13:59

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ROYF02
Lab Code: CHEM Case No.: P5088 SAS No.: P5088 SDG NO.: P5088
Lab File ID: VN085084.D Date Analyzed: 12/04/2024
Instrument ID: MSVOA_N Time Analyzed: 09:51
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	178528	8.22	279794	9.09	245149	11.87
UPPER LIMIT	357056	8.724	559588	9.594	490298	12.365
LOWER LIMIT	89264	7.724	139897	8.594	122575	11.365
EPA SAMPLE NO.						
UNIT-51-FS-SW001-01	146135	8.22	265068	9.10	222417	11.87
UNIT-51-RS-SW001-01	148273	8.22	269634	9.10	226427	11.87
UNIT-51-RS-SW001-01MS	158332	8.22	259564	9.10	227124	11.87
UNIT-51-RS-SW001-01MSD	160452	8.22	266631	9.10	236037	11.87
UNIT-51-RS-SW001-02	148763	8.22	268302	9.10	218483	11.86
VN1204WBL01	155240	8.22	271880	9.10	231756	11.87
VN1204WBS01	163110	8.22	267469	9.10	232064	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.: P5088 SAS No.: P5088 SDG NO.: P5088
Lab File ID: VN085084.D Date Analyzed: 12/04/2024
Instrument ID: MSVOA_N Time Analyzed: 09:51
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	120683	13.788				
UPPER LIMIT	241366	14.288				
LOWER LIMIT	60341.5	13.288				
EPA SAMPLE NO.						
UNIT-51-FS-SW001-01	87232	13.79				
UNIT-51-RS-SW001-01	90203	13.79				
UNIT-51-RS-SW001-01MS	114296	13.79				
UNIT-51-RS-SW001-01MSD	113440	13.79				
UNIT-51-RS-SW001-02	81728	13.79				
VN1204WBL01	89427	13.79				
VN1204WBS01	108141	13.79				

IS4 = 1,4-Dichlorobenzene-d4

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ROYF02
Lab Code: CHEM Case No.: P5088 SAS No.: P5088 SDG NO.: P5088
Lab File ID: VN085106.D Date Analyzed: 12/05/2024
Instrument ID: MSVOA_N Time Analyzed: 10:50
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	172189	8.22	277520	9.10	243369	11.87
UPPER LIMIT	344378	8.718	555040	9.6	486738	12.365
LOWER LIMIT	86094.5	7.718	138760	8.6	121685	11.365
EPA SAMPLE NO.						
TB-241203-01	142023	8.22	254017	9.10	215741	11.87
VN1205WBL01	153003	8.22	269925	9.10	233275	11.87
VN1205WBS01	155083	8.22	255063	9.10	218295	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.: P5088 SAS No.: P5088 SDG NO.: P5088
Lab File ID: VN085106.D Date Analyzed: 12/05/2024
Instrument ID: MSVOA_N Time Analyzed: 10:50
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	121642	13.788				
UPPER LIMIT	243284	14.288				
LOWER LIMIT	60821	13.288				
EPA SAMPLE NO.						
TB-241203-01	89088	13.79				
VN1205WBL01	93689	13.79				
VN1205WBS01	104397	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

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Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	12/03/24	
Project:	RFP 890		Date Received:	12/04/24	
Client Sample ID:	TB-241203-01		SDG No.:	P5088	
Lab Sample ID:	P5088-01		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085113.D	1		12/05/24 13:59	VN120524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	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
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
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	0.39	U	0.39	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.2		70 (74) - 130 (125)	106%	SPK: 50
1868-53-7	Dibromofluoromethane	51.3		70 (75) - 130 (124)	103%	SPK: 50
2037-26-5	Toluene-d8	48.2		70 (86) - 130 (113)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.7		70 (77) - 130 (121)	87%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	142000	8.224			
540-36-3	1,4-Difluorobenzene	254000	9.1			
3114-55-4	Chlorobenzene-d5	216000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	89100	13.794			

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\VN120524\
Data File : VN085113.D
Acq On : 05 Dec 2024 13:59
Operator : JC\MD
Sample : P5088-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-241203-01

Quant Time: Dec 06 00:48:21 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

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

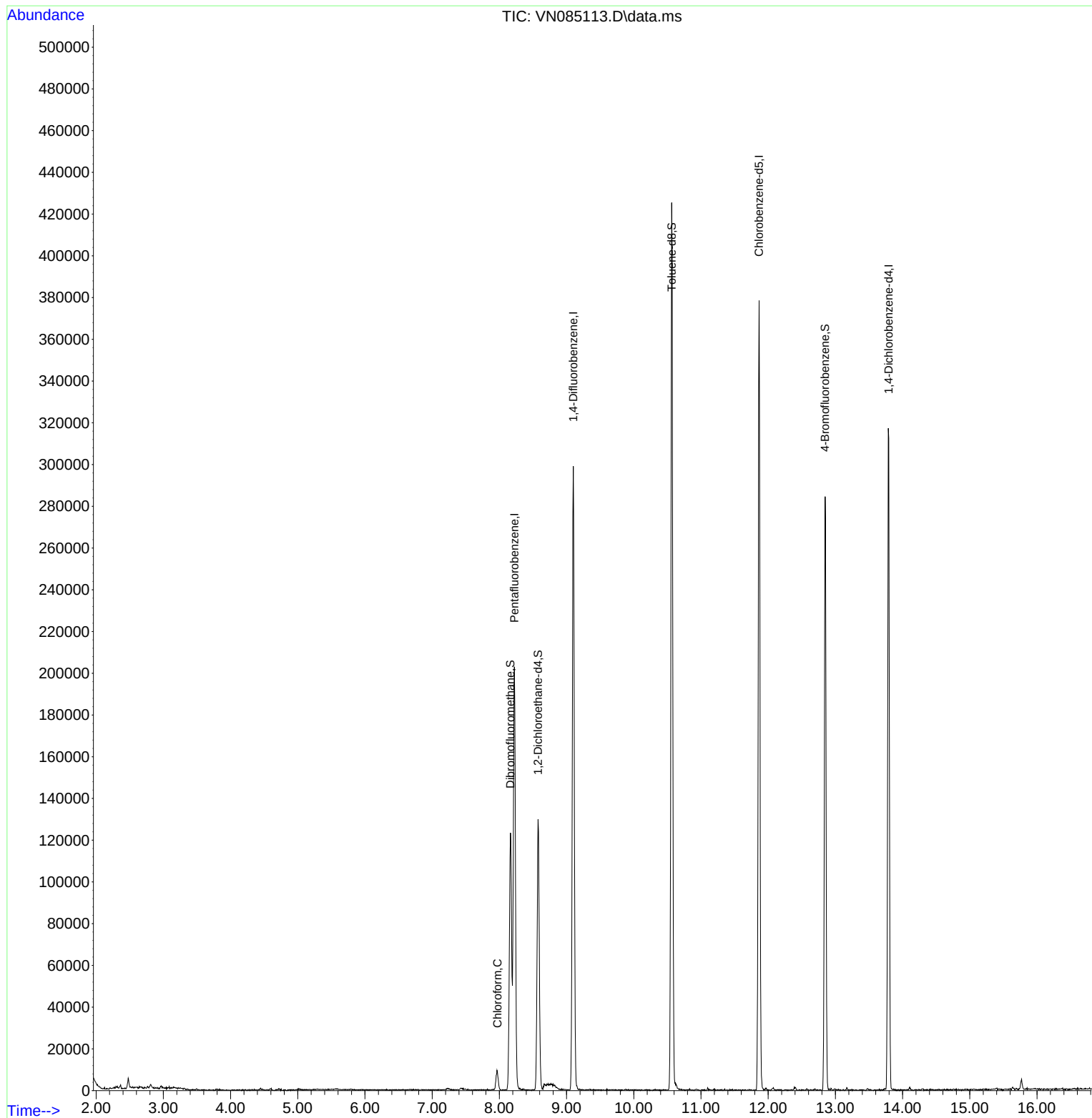
Internal Standards						
1) Pentafluorobenzene	8.224	168	142023	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	254017	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	215741	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	89088	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	107699	53.237	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 106.480%		
35) Dibromofluoromethane	8.165	113	87950	51.343	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 102.680%		
50) Toluene-d8	10.565	98	296013	48.218	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 96.440%		
62) 4-Bromofluorobenzene	12.847	95	100369	43.719	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 87.440%		
Target Compounds						Qvalue
30) Chloroform	7.971	83	9365	2.876	ug/l	92

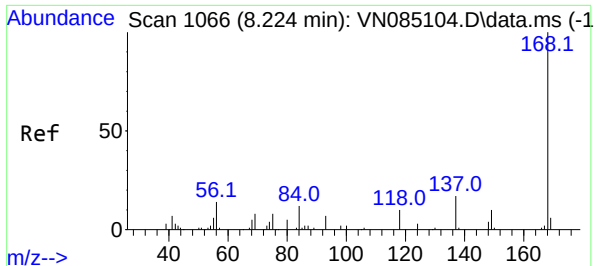
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120524\
Data File : VN085113.D
Acq On : 05 Dec 2024 13:59
Operator : JC\MD
Sample : P5088-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-241203-01

Quant Time: Dec 06 00:48:21 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

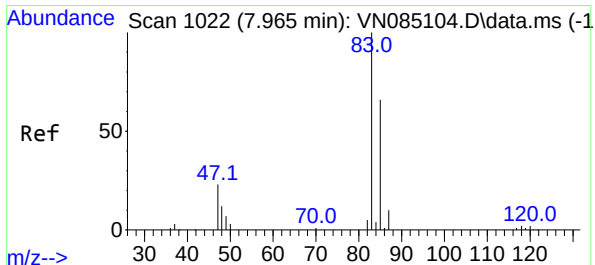
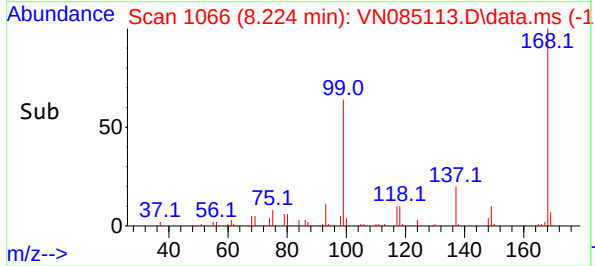
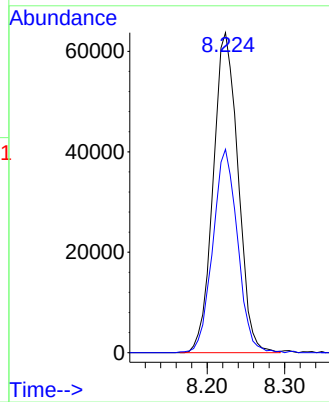
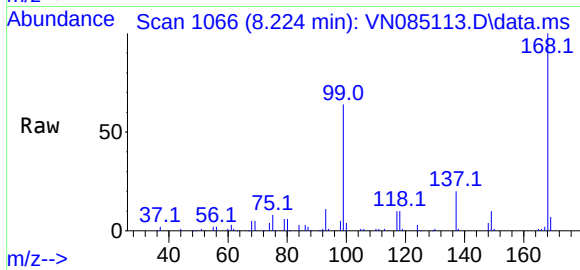




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085113.D
Acq: 05 Dec 2024 13:59

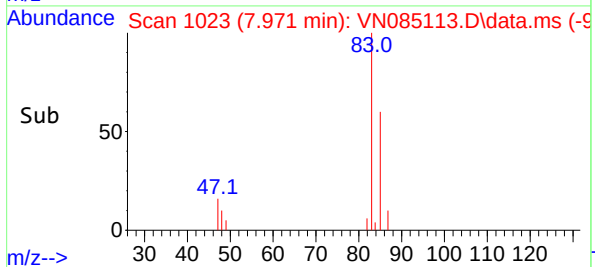
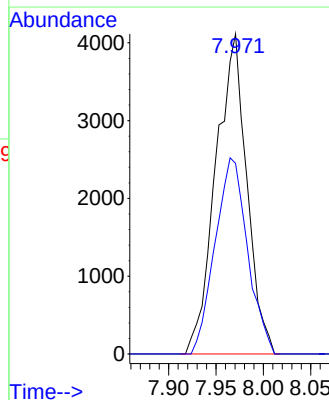
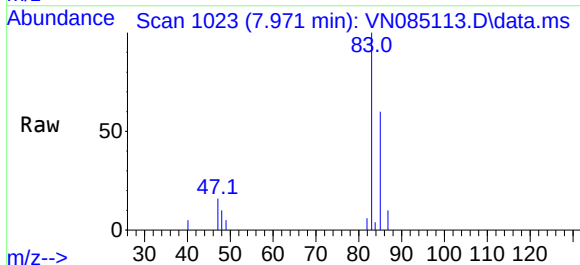
Instrument :
MSVOA_N
ClientSampleId :
TB-241203-01

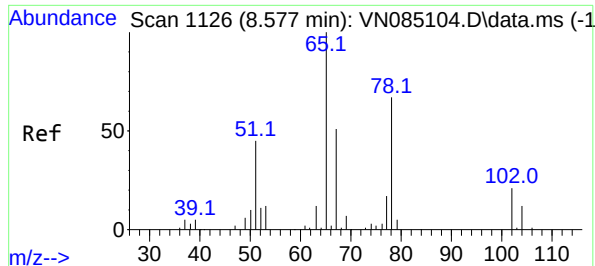
Tgt Ion:168 Resp: 142023
Ion Ratio Lower Upper
168 100
99 63.3 51.2 76.8



#30
Chloroform
Concen: 2.876 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. 0.012 min
Lab File: VN085113.D
Acq: 05 Dec 2024 13:59

Tgt Ion: 83 Resp: 9365
Ion Ratio Lower Upper
83 100
85 59.6 52.6 78.8





#33

1,2-Dichloroethane-d4

Concen: 53.237 ug/l

RT: 8.576 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VN085113.D

Acq: 05 Dec 2024 13:59

Instrument :

MSVOA_N

ClientSampleId :

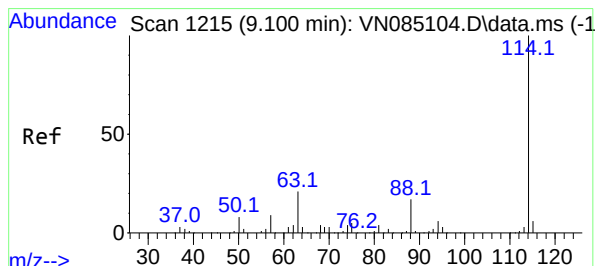
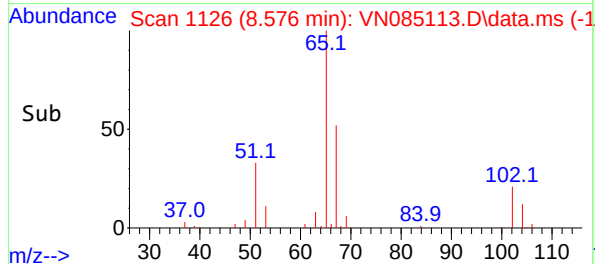
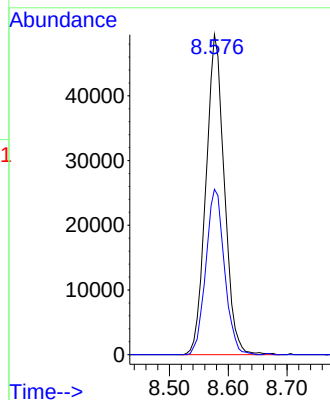
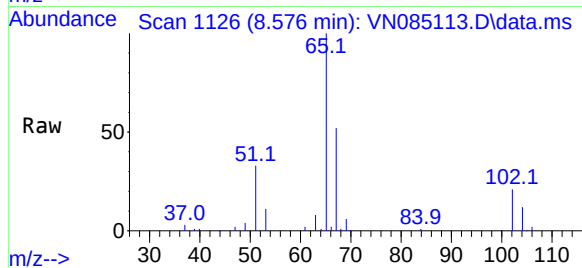
TB-241203-01

Tgt Ion: 65 Resp: 107699

Ion Ratio Lower Upper

65 100

67 52.3 0.0 105.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085113.D

Acq: 05 Dec 2024 13:59

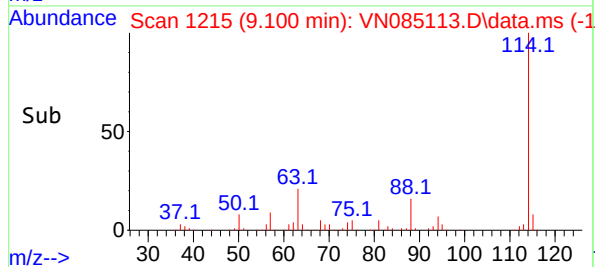
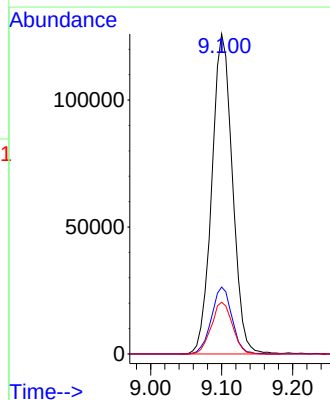
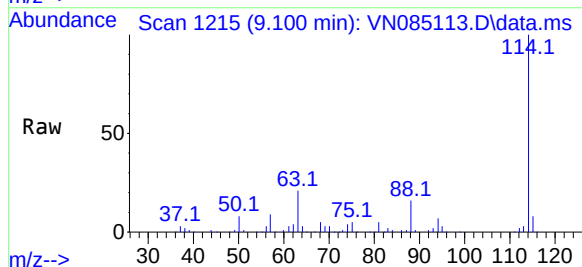
Tgt Ion: 114 Resp: 254017

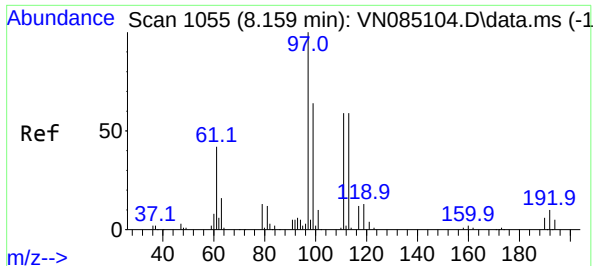
Ion Ratio Lower Upper

114 100

63 20.9 0.0 41.0

88 16.1 0.0 34.8

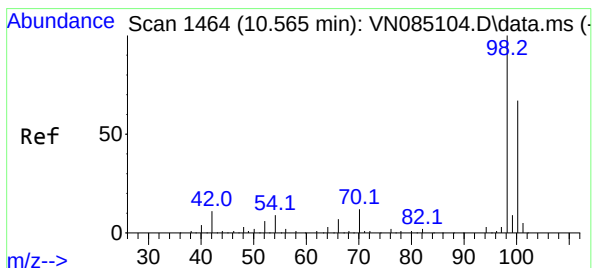
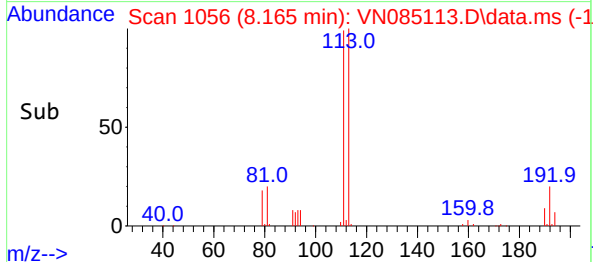
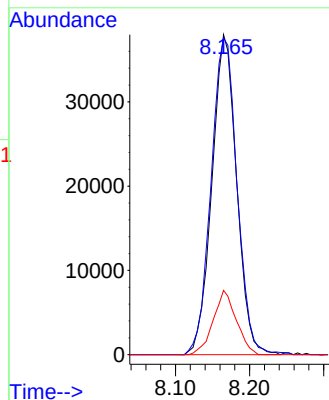
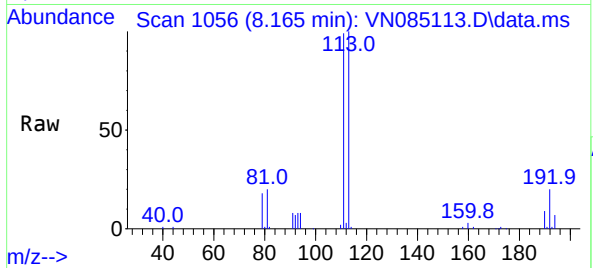




#35
Dibromofluoromethane
Concen: 51.343 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085113.D
Acq: 05 Dec 2024 13:59

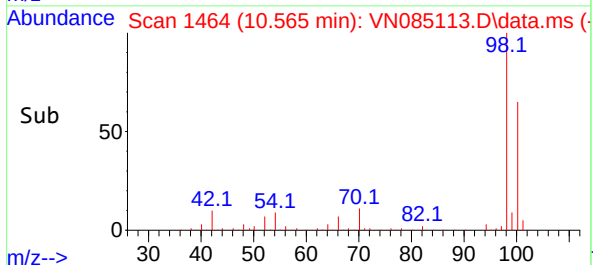
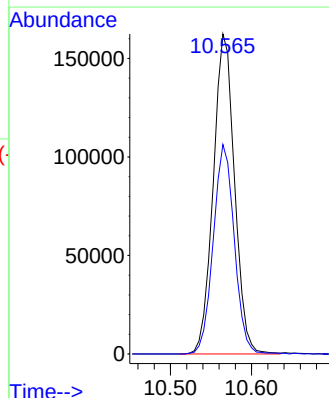
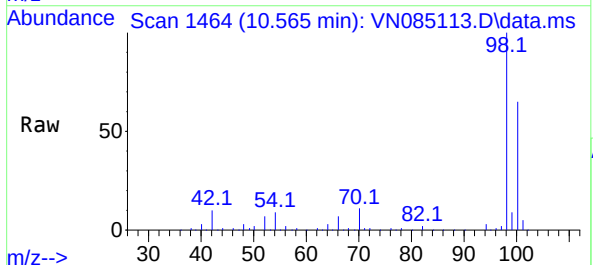
Instrument :
MSVOA_N
ClientSampleId :
TB-241203-01

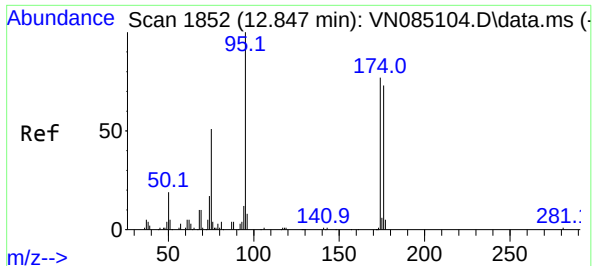
Tgt Ion:113 Resp: 87950
Ion Ratio Lower Upper
113 100
111 104.3 82.0 123.0
192 18.8 14.8 22.2



#50
Toluene-d8
Concen: 48.218 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085113.D
Acq: 05 Dec 2024 13:59

Tgt Ion: 98 Resp: 296013
Ion Ratio Lower Upper
98 100
100 64.6 52.5 78.7

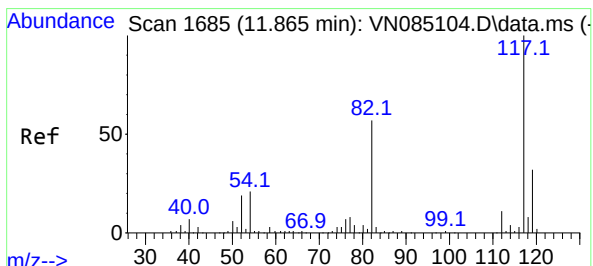
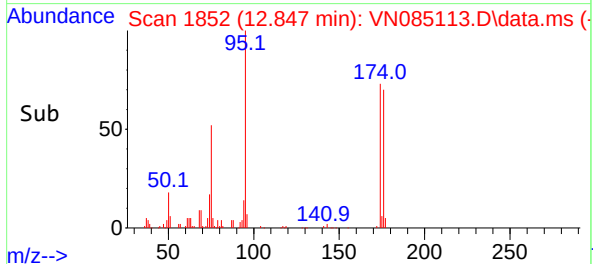
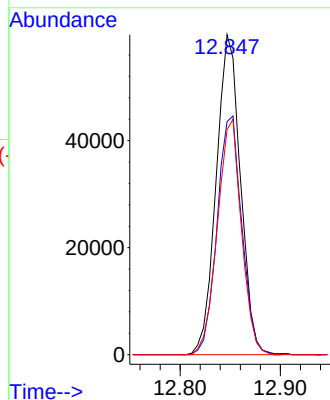
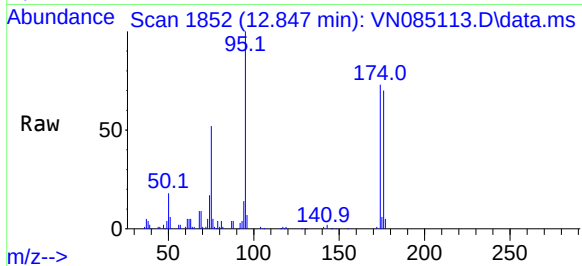




#62
4-Bromofluorobenzene
Concen: 43.719 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085113.D
Acq: 05 Dec 2024 13:59

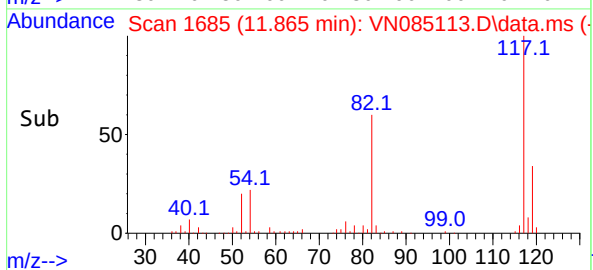
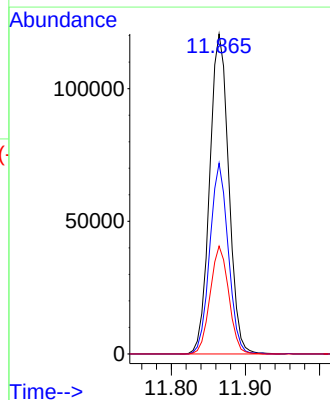
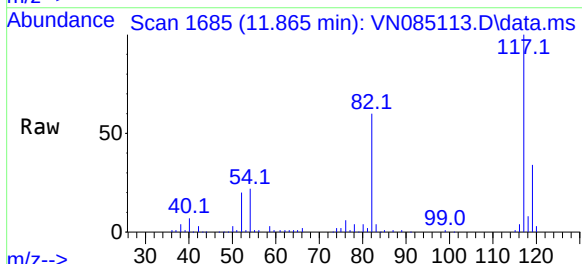
Instrument :
MSVOA_N
ClientSampleId :
TB-241203-01

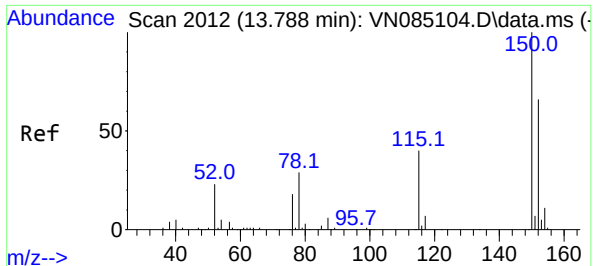
Tgt Ion: 95 Resp: 100369
Ion Ratio Lower Upper
95 100
174 76.1 0.0 146.6
176 72.8 0.0 141.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VN085113.D
Acq: 05 Dec 2024 13:59

Tgt Ion: 117 Resp: 215741
Ion Ratio Lower Upper
117 100
82 59.6 46.0 69.0
119 33.7 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. 0.006 min

Lab File: VN085113.D

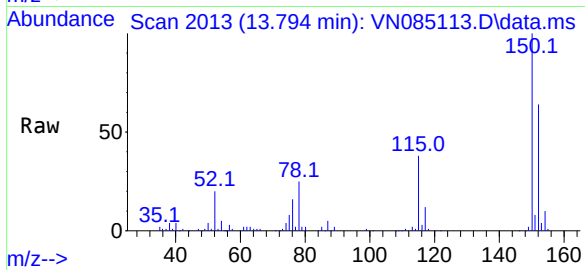
Acq: 05 Dec 2024 13:59

Instrument :

MSVOA_N

ClientSampleId :

TB-241203-01



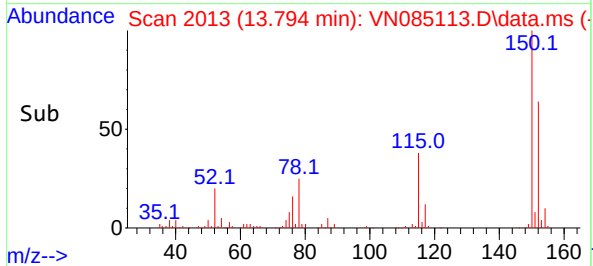
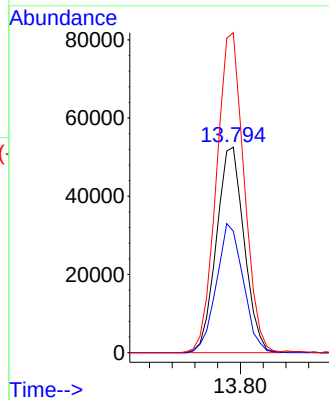
Tgt Ion:152 Resp: 89088

Ion Ratio Lower Upper

152 100

115 61.1 31.7 95.1

150 156.1 0.0 351.4



Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	12/03/24
Project:	RFP 890	Date Received:	12/04/24
Client Sample ID:	UNIT-51-FS-SW001-01	SDG No.:	P5088
Lab Sample ID:	P5088-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085099.D	1		12/04/24 17:13	VN120424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	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
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
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
79-01-6	Trichloroethene	4.70		0.32	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	0.39	U	0.39	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.5		70 (74) - 130 (125)	105%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	47.5		70 (86) - 130 (113)	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.0		70 (77) - 130 (121)	86%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	146000	8.224			
540-36-3	1,4-Difluorobenzene	265000	9.1			
3114-55-4	Chlorobenzene-d5	222000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	87200	13.788			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120424\
Data File : VN085099.D
Acq On : 04 Dec 2024 17:13
Operator : JC\MD
Sample : P5088-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-FS-SW001-01

Quant Time: Dec 04 23:29:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

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

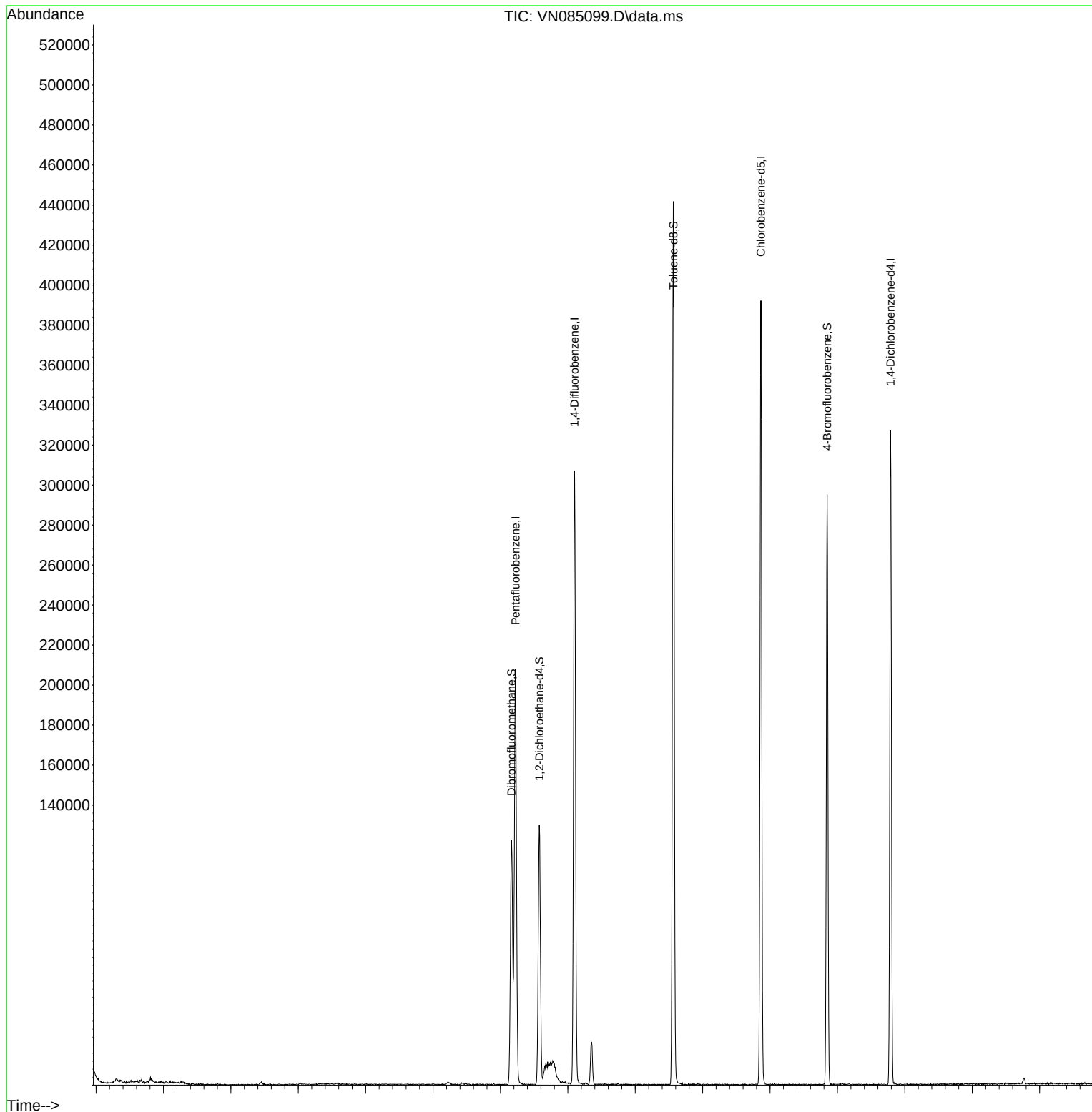
Internal Standards						
1) Pentafluorobenzene	8.224	168	146135	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	265068	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	222417	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	87232	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	109189	52.455	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	104.900%	
35) Dibromofluoromethane	8.165	113	90789	50.790	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	101.580%	
50) Toluene-d8	10.565	98	304065	47.465	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	94.940%	
62) 4-Bromofluorobenzene	12.847	95	102947	42.972	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	85.940%	
Target Compounds						
44) Trichloroethene	9.347	130	8286	4.656	ug/l	Qvalue 85

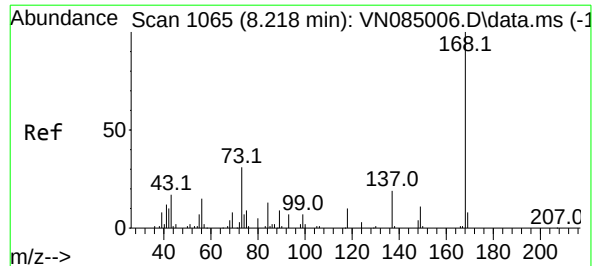
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120424\
Data File : VN085099.D
Acq On : 04 Dec 2024 17:13
Operator : JC\MD
Sample : P5088-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-FS-SW001-01

Quant Time: Dec 04 23:29:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

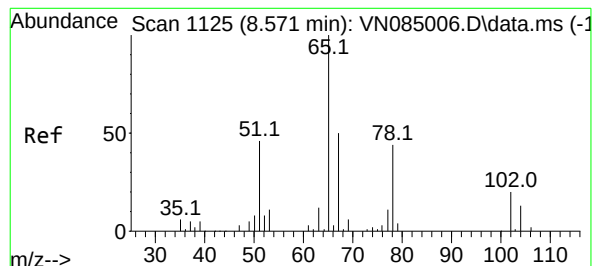
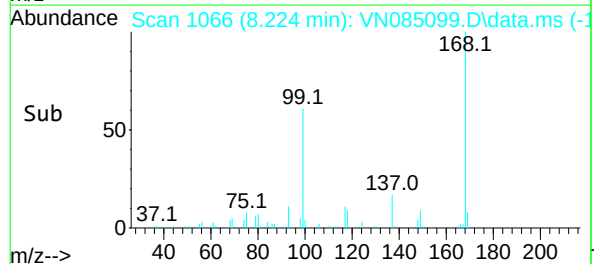
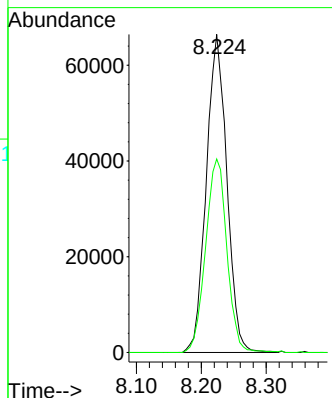
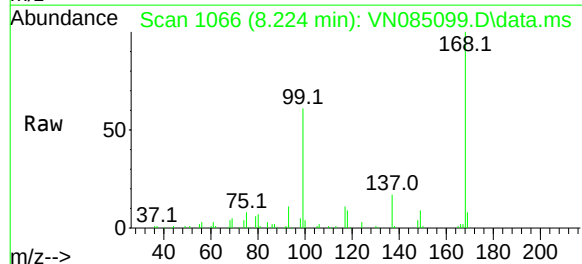




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085099.D
Acq: 04 Dec 2024 17:13

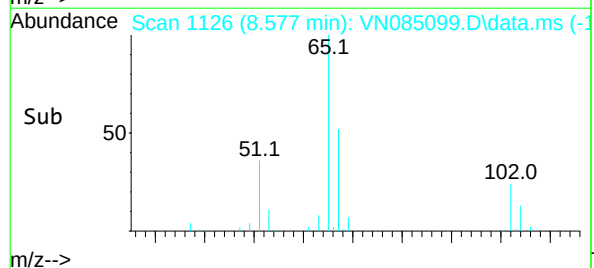
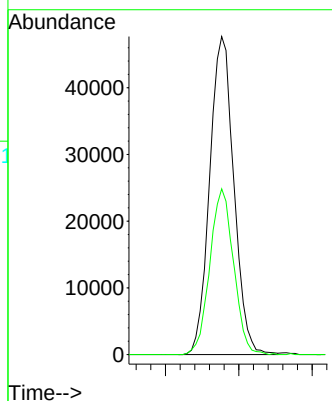
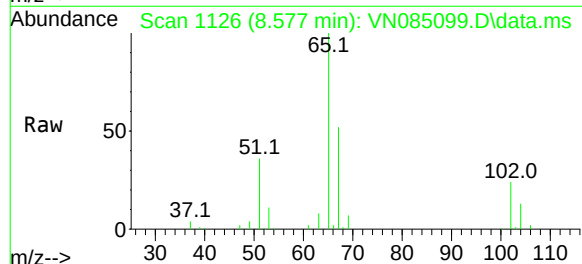
Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-FS-SW001-01

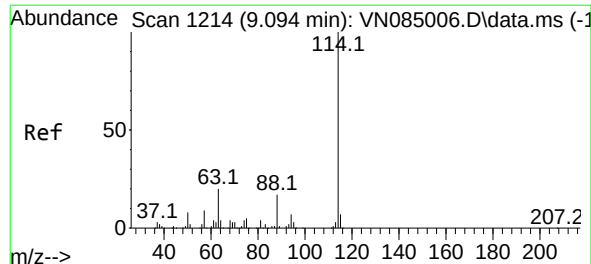
Tgt Ion:168 Resp: 146135
Ion Ratio Lower Upper
168 100
99 60.8 51.2 76.8



#33
1,2-Dichloroethane-d4
Concen: 52.455 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085099.D
Acq: 04 Dec 2024 17:13

Tgt Ion: 65 Resp: 109189
Ion Ratio Lower Upper
65 100
67 51.2 0.0 105.0

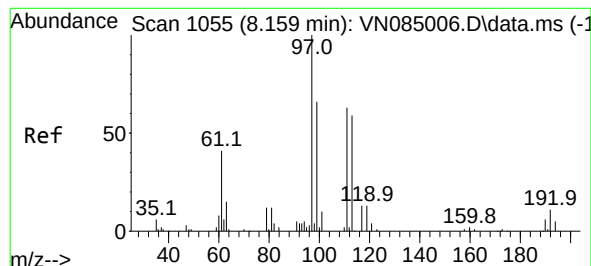
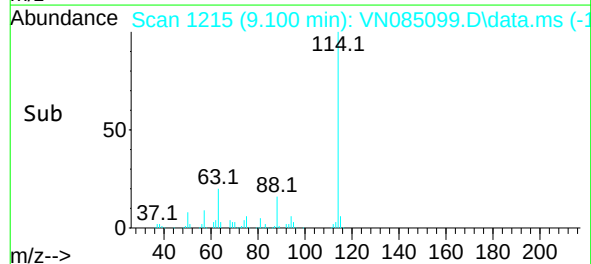
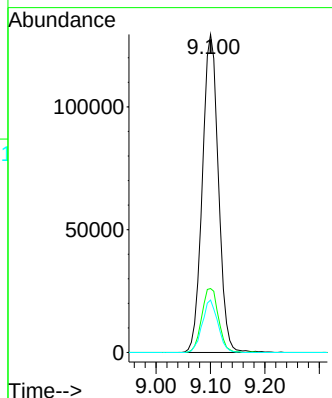
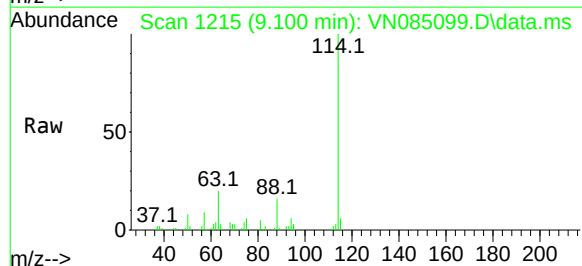




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VN085099.D
Acq: 04 Dec 2024 17:13

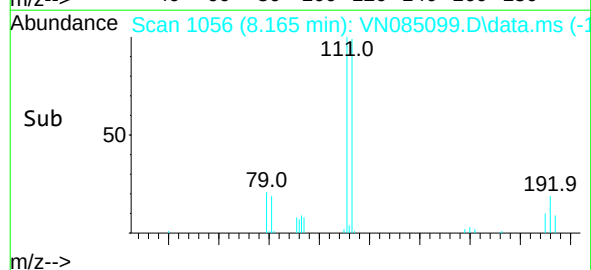
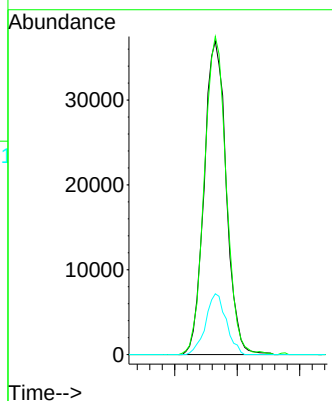
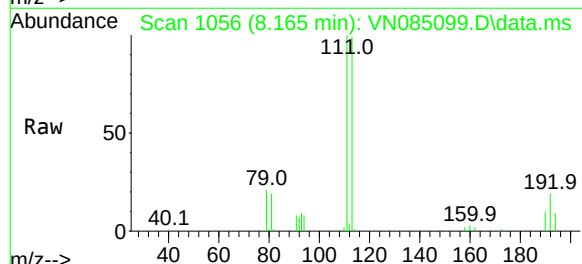
Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-FS-SW001-01

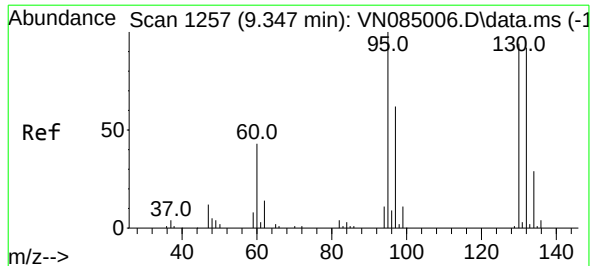
Tgt Ion:	114	Resp:	265068
Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	41.0
88	16.5	0.0	34.8



#35
Dibromofluoromethane
Concen: 50.790 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085099.D
Acq: 04 Dec 2024 17:13

Tgt Ion:	113	Resp:	90789
Ion	Ratio	Lower	Upper
113	100		
111	100.6	82.0	123.0
192	18.1	14.8	22.2





#44

Trichloroethene

Concen: 4.656 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. -0.000 min

Lab File: VN085099.D

Acq: 04 Dec 2024 17:13

Instrument :

MSVOA_N

ClientSampleId :

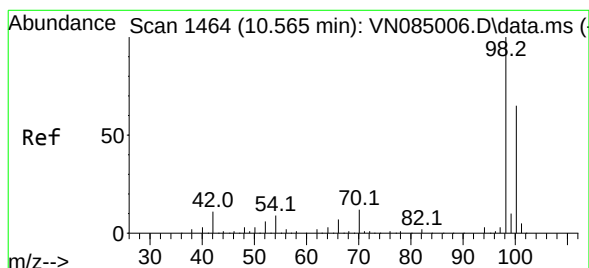
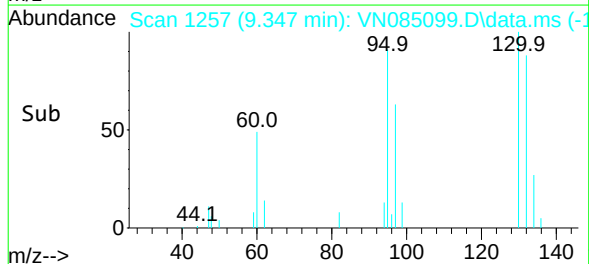
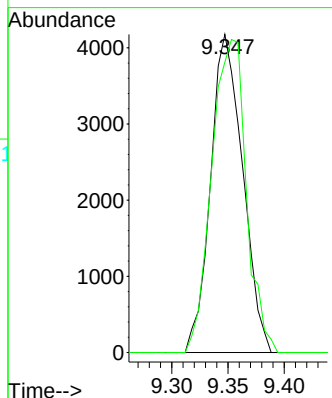
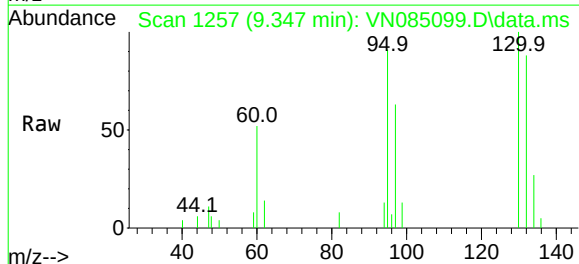
UNIT-51-FS-SW001-01

Tgt Ion:130 Resp: 8286

Ion Ratio Lower Upper

130 100

95 91.3 0.0 213.4



#50

Toluene-d8

Concen: 47.465 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085099.D

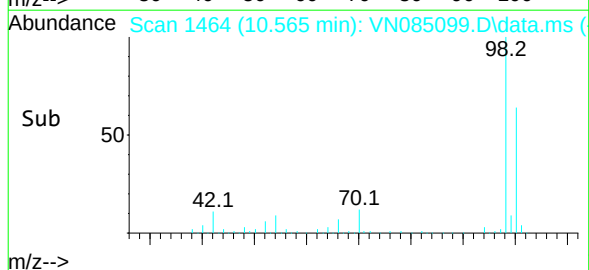
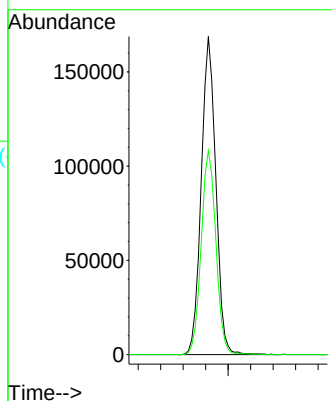
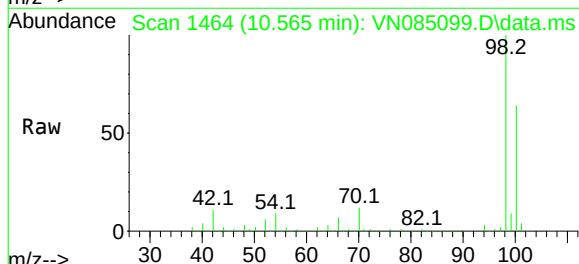
Acq: 04 Dec 2024 17:13

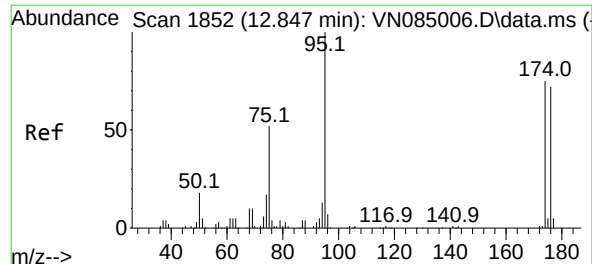
Tgt Ion: 98 Resp: 304065

Ion Ratio Lower Upper

98 100

100 64.7 52.5 78.7





#62

4-Bromofluorobenzene

Concen: 42.972 ug/l

RT: 12.847 min Scan# 18

Delta R.T. -0.000 min

Lab File: VN085099.D

Acq: 04 Dec 2024 17:13

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-FS-SW001-01

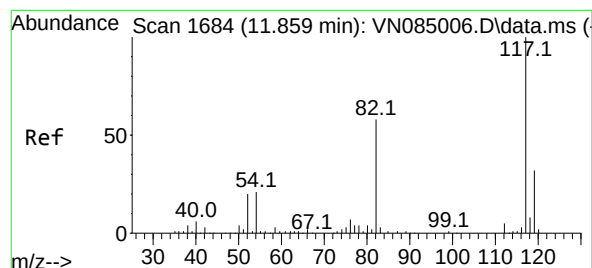
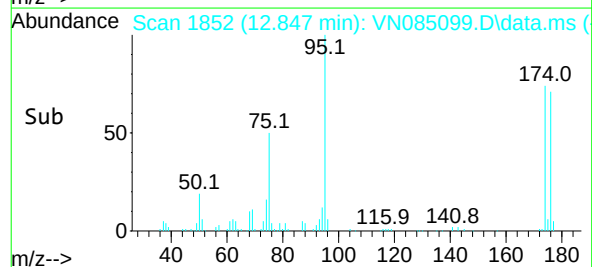
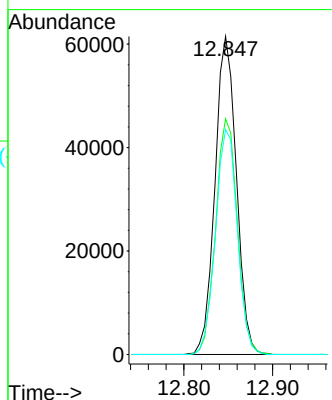
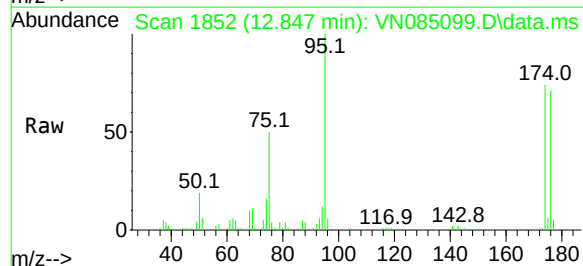
Tgt Ion: 95 Resp: 102947

Ion Ratio Lower Upper

95 100

174 75.1 0.0 146.6

176 72.0 0.0 141.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. 0.006 min

Lab File: VN085099.D

Acq: 04 Dec 2024 17:13

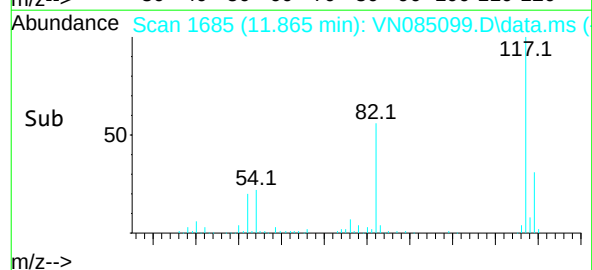
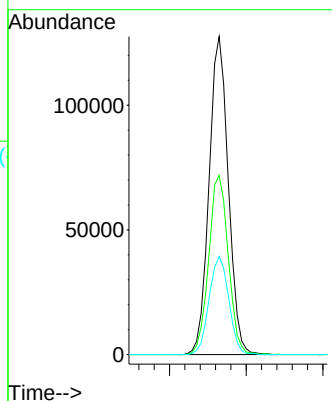
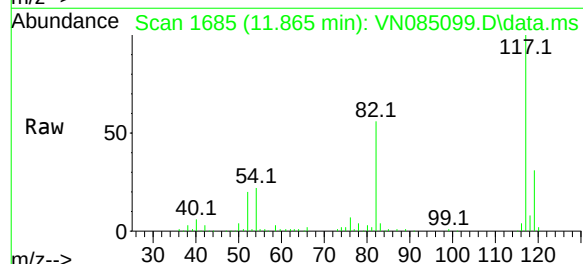
Tgt Ion: 117 Resp: 222417

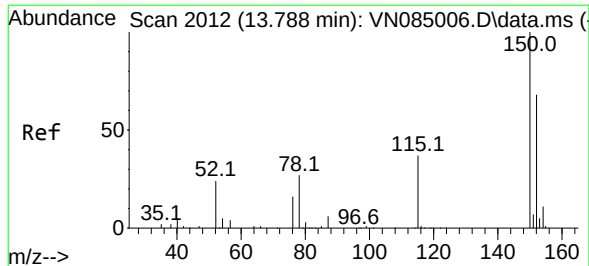
Ion Ratio Lower Upper

117 100

82 56.3 46.0 69.0

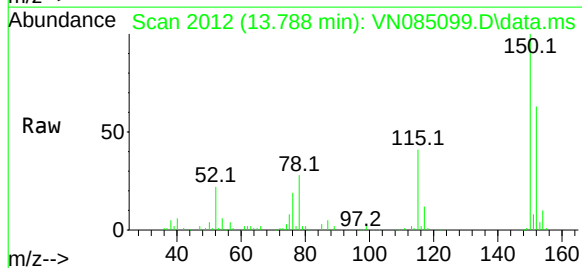
119 30.9 25.6 38.4



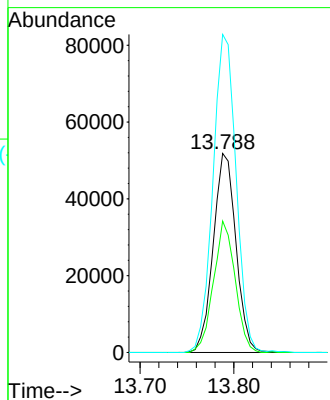
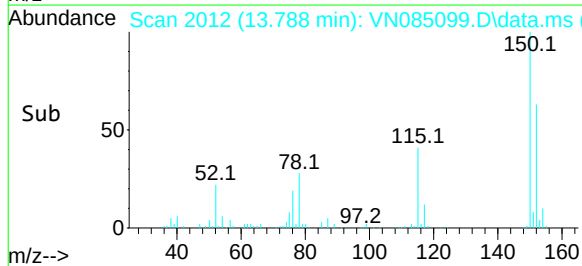


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN085099.D
Acq: 04 Dec 2024 17:13

Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-FS-SW001-01



Tgt	Ion	Ratio	Lower	Upper
152	100			
115	62.8	31.7	95.1	
150	163.1	0.0	351.4	



Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	12/03/24
Project:	RFP 890	Date Received:	12/04/24
Client Sample ID:	UNIT-51-RS-SW001-01	SDG No.:	P5088
Lab Sample ID:	P5088-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085101.D	1		12/04/24 18:01	VN120424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	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
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
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
79-01-6	Trichloroethene	0.76	J	0.32	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	0.39	U	0.39	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.5		70 (74) - 130 (125)	105%	SPK: 50
1868-53-7	Dibromofluoromethane	49.7		70 (75) - 130 (124)	99%	SPK: 50
2037-26-5	Toluene-d8	47.1		70 (86) - 130 (113)	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.1		70 (77) - 130 (121)	86%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	148000	8.224			
540-36-3	1,4-Difluorobenzene	270000	9.1			
3114-55-4	Chlorobenzene-d5	226000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	90200	13.788			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120424\
Data File : VN085101.D
Acq On : 04 Dec 2024 18:01
Operator : JC\MD
Sample : P5088-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-RS-SW001-01

Quant Time: Dec 04 22:11:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

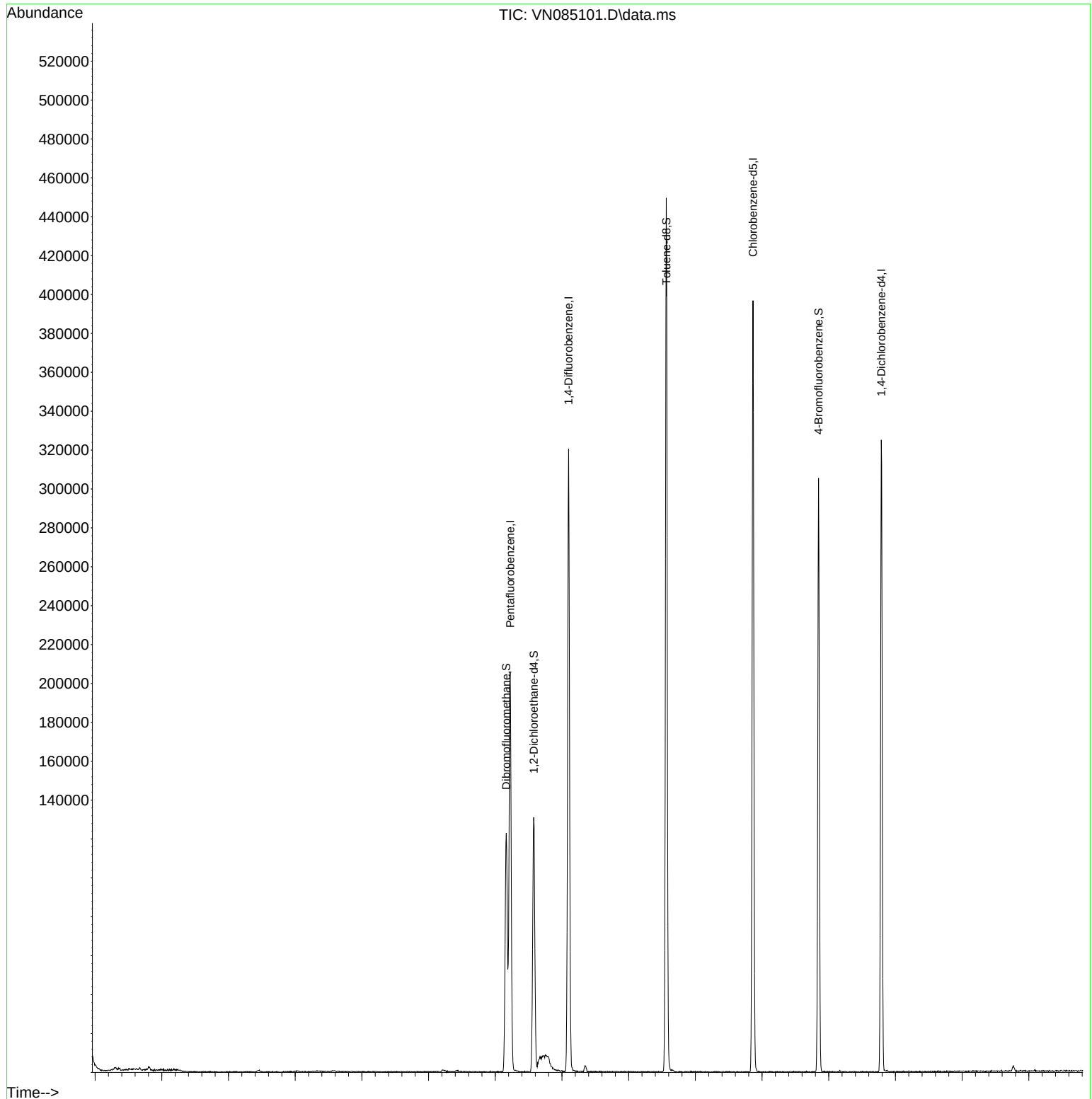
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	148273	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	269634	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	226427	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	90203	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	110887	52.502	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	105.000%	
35) Dibromofluoromethane	8.165	113	90394	49.713	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	99.420%	
50) Toluene-d8	10.565	98	307227	47.147	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	94.300%	
62) 4-Bromofluorobenzene	12.847	95	105053	43.109	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	86.220%	
Target Compounds						
44) Trichloroethene	9.347	130	1378	0.761	ug/l	Qvalue 71

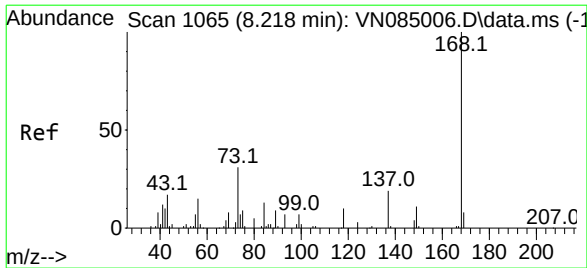
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120424\
Data File : VN085101.D
Acq On : 04 Dec 2024 18:01
Operator : JC\MD
Sample : P5088-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-RS-SW001-01

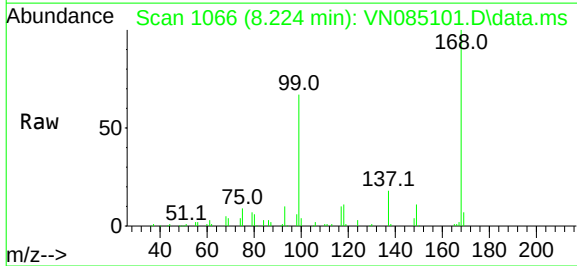
Quant Time: Dec 04 22:11:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration



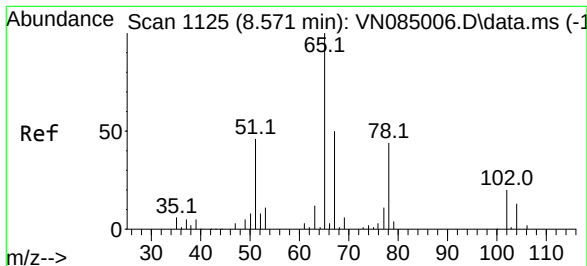
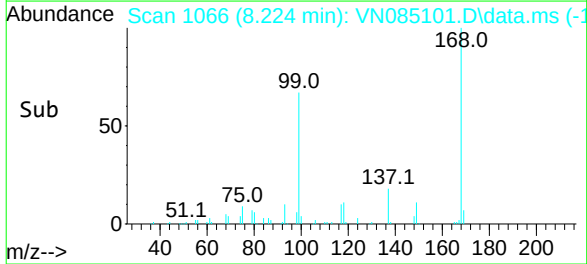
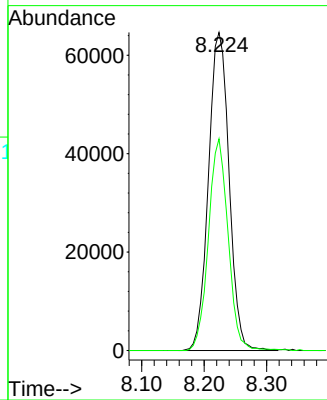


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085101.D
Acq: 04 Dec 2024 18:01

Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-RS-SW001-01

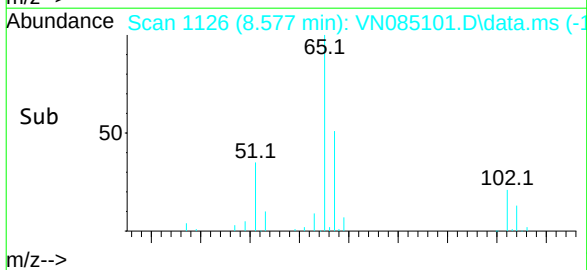
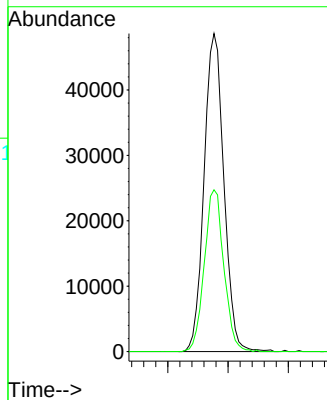
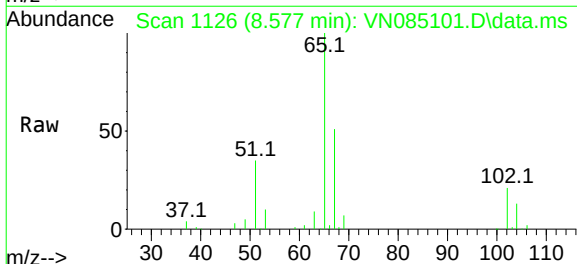


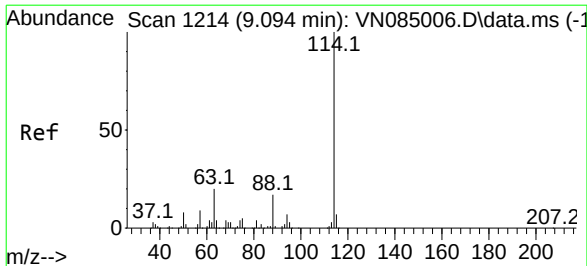
Tgt Ion:168 Resp: 148273
Ion Ratio Lower Upper
168 100
99 66.5 51.2 76.8



#33
1,2-Dichloroethane-d4
Concen: 52.502 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085101.D
Acq: 04 Dec 2024 18:01

Tgt Ion: 65 Resp: 110887
Ion Ratio Lower Upper
65 100
67 50.3 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 12

Delta R.T. 0.006 min

Lab File: VN085101.D

Acq: 04 Dec 2024 18:01

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01

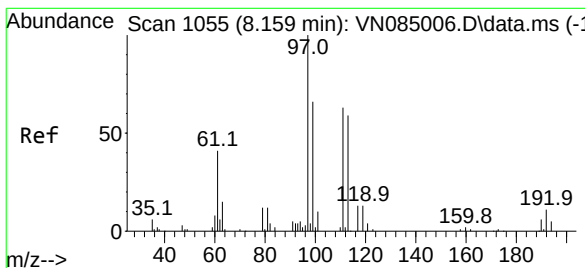
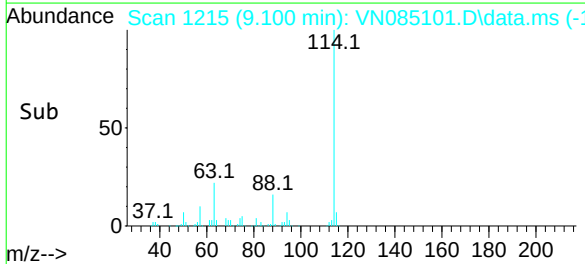
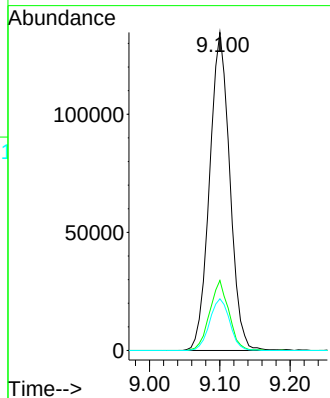
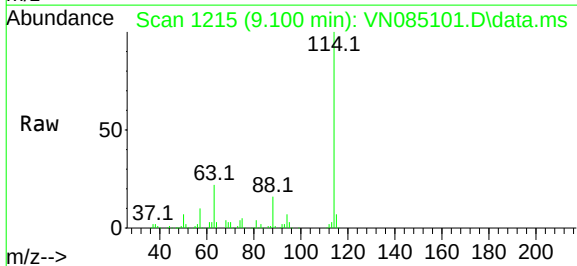
Tgt Ion:114 Resp: 269634

Ion Ratio Lower Upper

114 100

63 22.0 0.0 41.0

88 16.3 0.0 34.8



#35

Dibromofluoromethane

Concen: 49.713 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085101.D

Acq: 04 Dec 2024 18:01

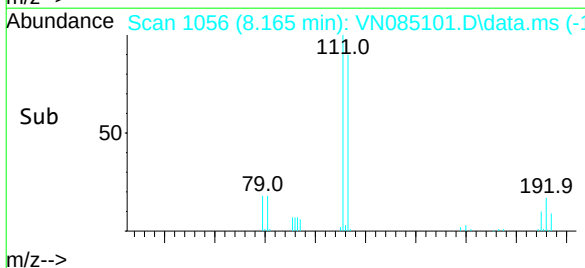
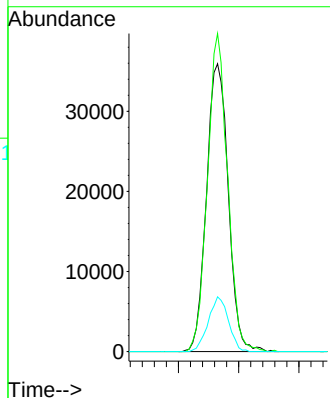
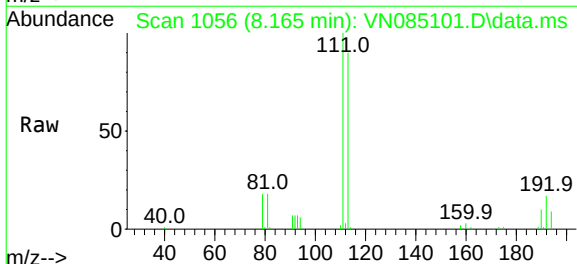
Tgt Ion:113 Resp: 90394

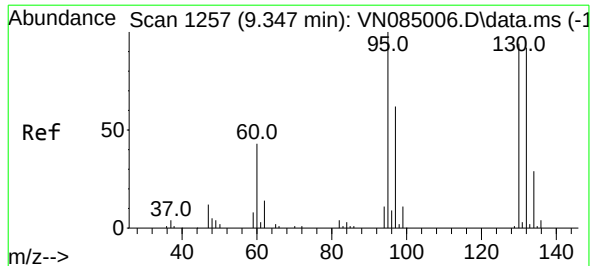
Ion Ratio Lower Upper

113 100

111 102.2 82.0 123.0

192 17.6 14.8 22.2





#44

Trichloroethene

Concen: 0.761 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. -0.000 min

Lab File: VN085101.D

Acq: 04 Dec 2024 18:01

Instrument :

MSVOA_N

ClientSampleId :

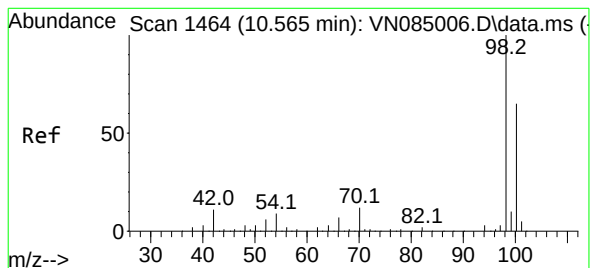
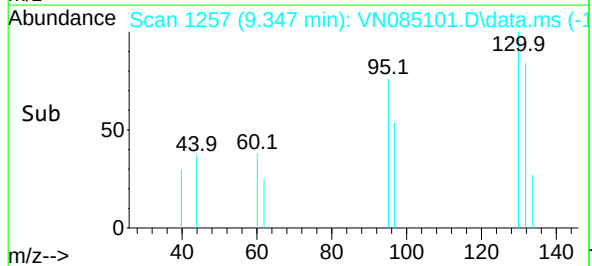
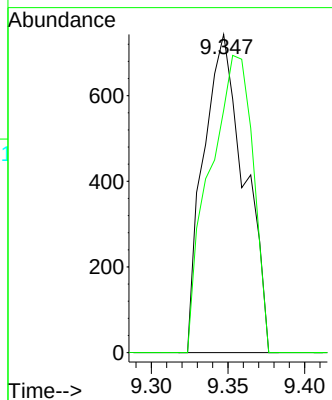
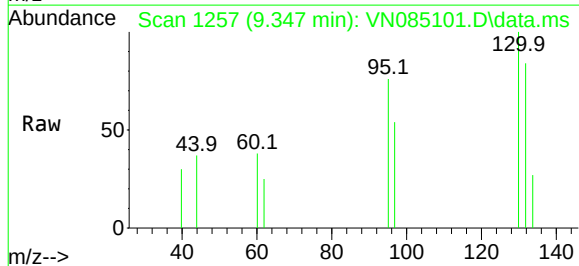
UNIT-51-RS-SW001-01

Tgt Ion:130 Resp: 1378

Ion Ratio Lower Upper

130 100

95 76.2 0.0 213.4



#50

Toluene-d8

Concen: 47.147 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085101.D

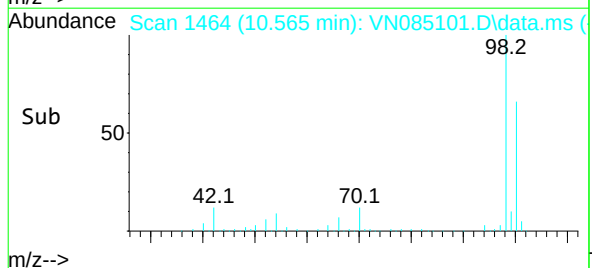
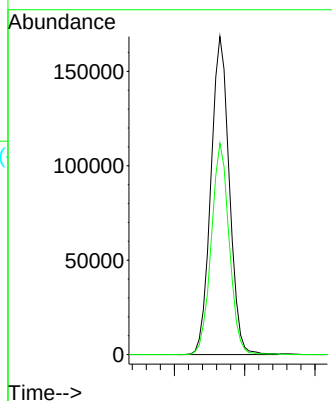
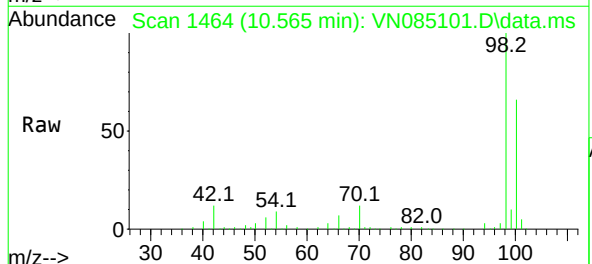
Acq: 04 Dec 2024 18:01

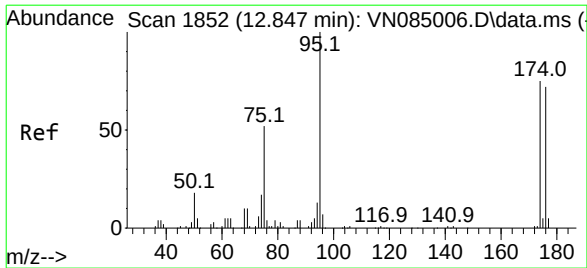
Tgt Ion: 98 Resp: 307227

Ion Ratio Lower Upper

98 100

100 64.7 52.5 78.7





#62

4-Bromofluorobenzene

Concen: 43.109 ug/l

RT: 12.847 min Scan# 18

Delta R.T. -0.000 min

Lab File: VN085101.D

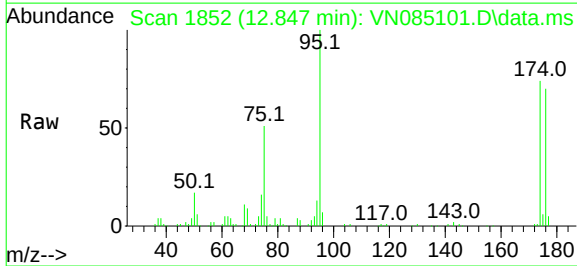
Acq: 04 Dec 2024 18:01

Instrument :

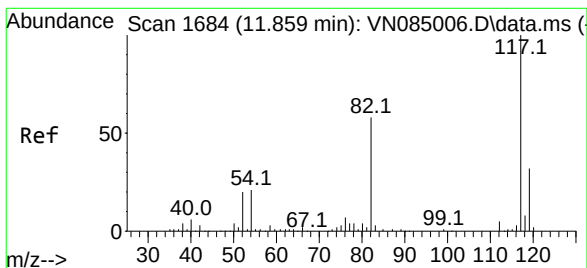
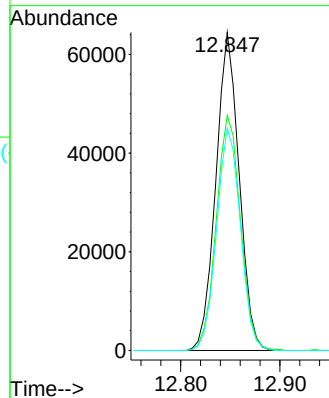
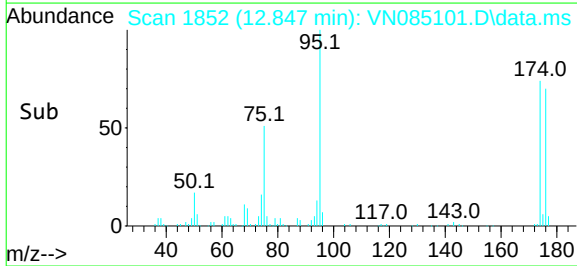
MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01



Tgt Ion:	95	Resp:	105053
Ion	Ratio	Lower	Upper
95	100		
174	77.1	0.0	146.6
176	71.5	0.0	141.8



#63

Chlorobenzene-d5

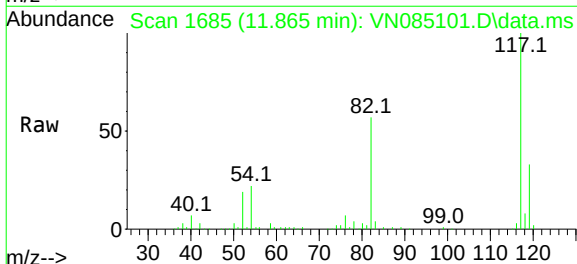
Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

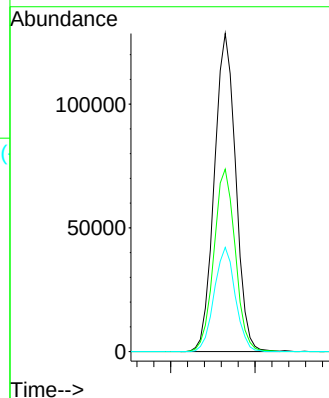
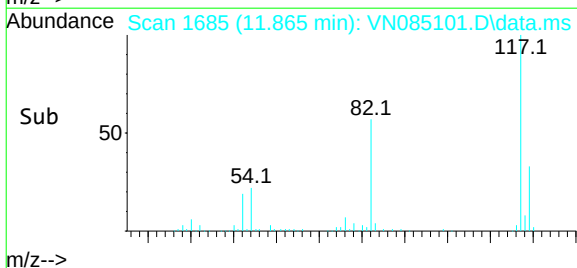
Delta R.T. 0.006 min

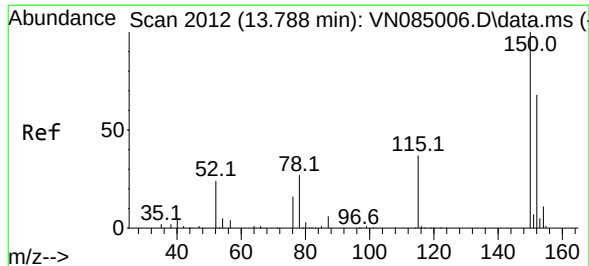
Lab File: VN085101.D

Acq: 04 Dec 2024 18:01



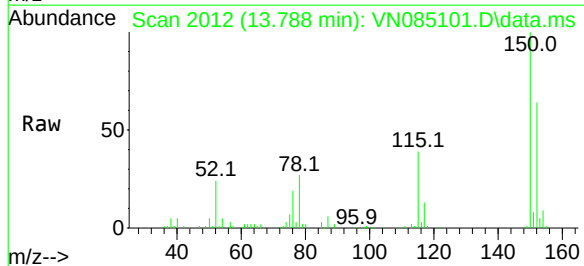
Tgt Ion:	117	Resp:	226427
Ion	Ratio	Lower	Upper
117	100		
82	57.4	46.0	69.0
119	32.8	25.6	38.4



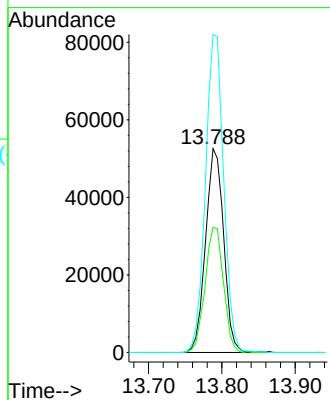
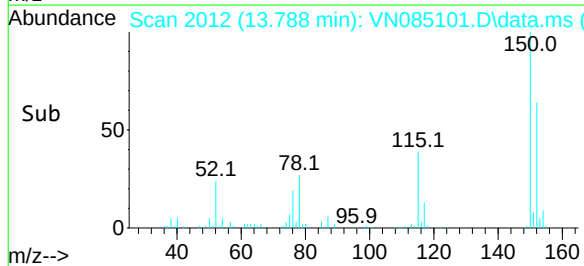


1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN085101.D
Acq: 04 Dec 2024 18:01

Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-RS-SW001-01



Tgt Ion	Ratio	Lower	Upper
152	100		
115	62.3	31.7	95.1
150	156.9	0.0	351.4



Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	12/03/24
Project:	RFP 890	Date Received:	12/04/24
Client Sample ID:	UNIT-51-RS-SW001-02	SDG No.:	P5088
Lab Sample ID:	P5088-06	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085100.D	1		12/04/24 17:37	VN120424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	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
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
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
79-01-6	Trichloroethene	0.66	J	0.32	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	0.39	U	0.39	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.5		70 (74) - 130 (125)	105%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		70 (75) - 130 (124)	100%	SPK: 50
2037-26-5	Toluene-d8	46.4		70 (86) - 130 (113)	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.9		70 (77) - 130 (121)	82%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	149000	8.223			
540-36-3	1,4-Difluorobenzene	268000	9.1			
3114-55-4	Chlorobenzene-d5	218000	11.864			
3855-82-1	1,4-Dichlorobenzene-d4	81700	13.788			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120424\
Data File : VN085100.D
Acq On : 04 Dec 2024 17:37
Operator : JC\MD
Sample : P5088-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-RS-SW001-02

Quant Time: Dec 04 23:27:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

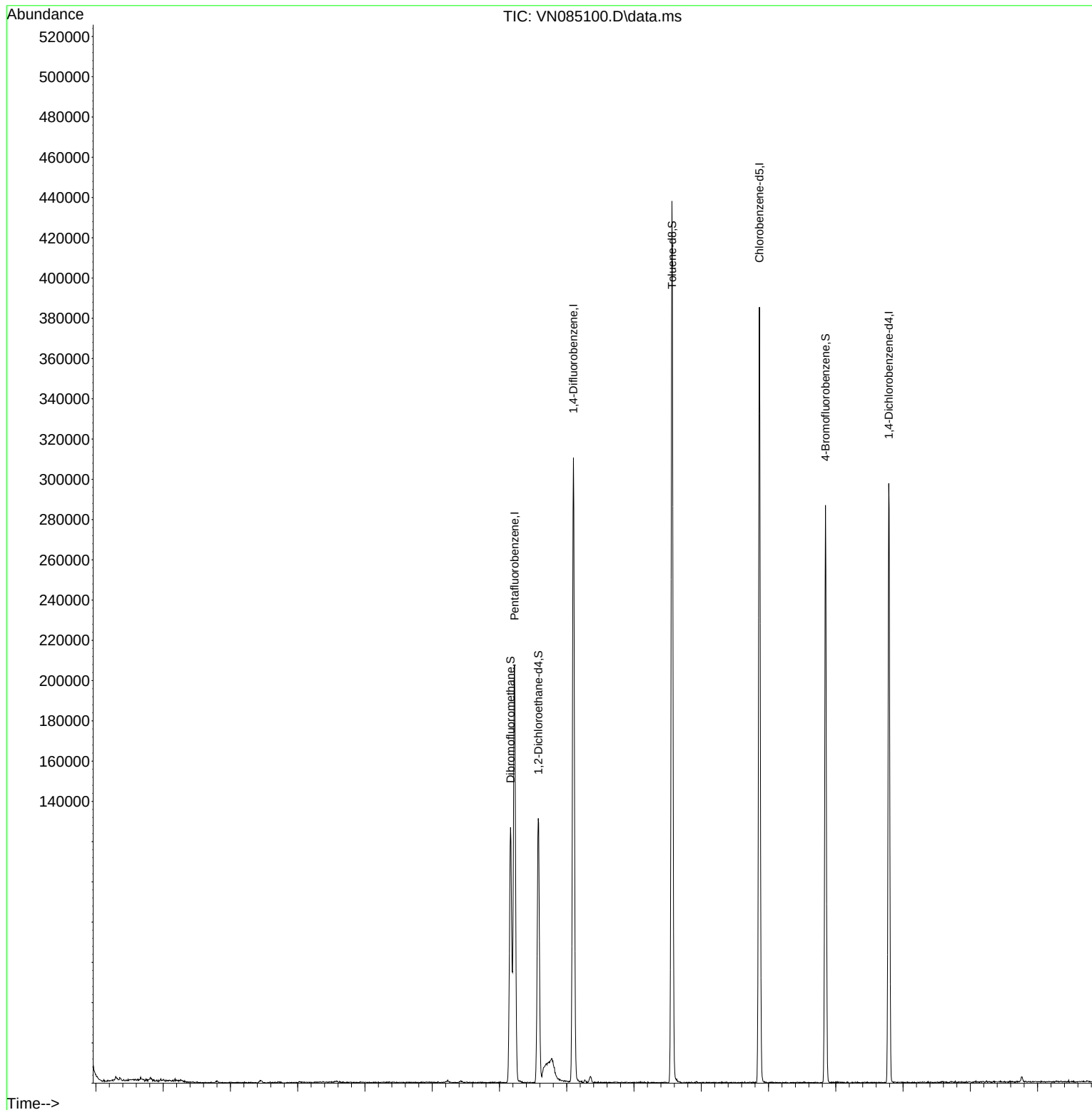
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.223	168	148763	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	268302	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.864	117	218483	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	81728	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	111266	52.508	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	105.020%	
35) Dibromofluoromethane	8.165	113	90668	50.111	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	100.220%	
50) Toluene-d8	10.564	98	301112	46.438	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	92.880%	
62) 4-Bromofluorobenzene	12.847	95	99282	40.943	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	81.880%	
Target Compounds						
3) Chloromethane	2.359	50	873	0.447	ug/l #	84
44) Trichloroethene	9.359	130	1183	0.657	ug/l	85

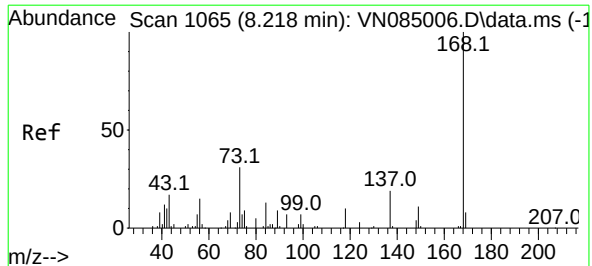
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120424\
Data File : VN085100.D
Acq On : 04 Dec 2024 17:37
Operator : JC\MD
Sample : P5088-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-RS-SW001-02

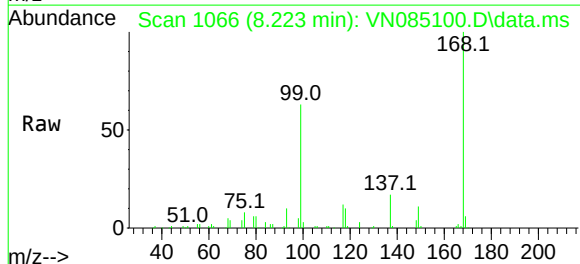
Quant Time: Dec 04 23:27:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration



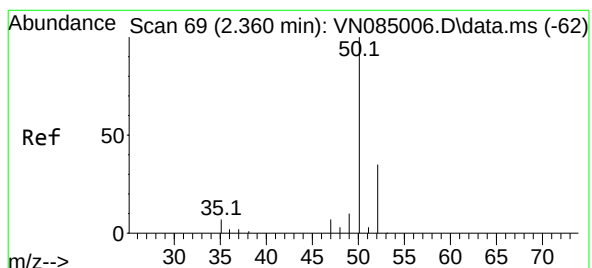
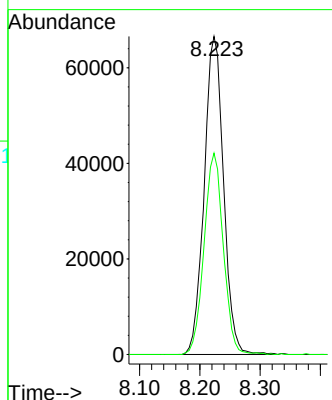
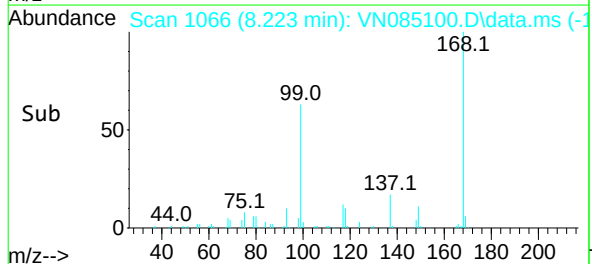


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.223 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN085100.D
Acq: 04 Dec 2024 17:37

Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-RS-SW001-02

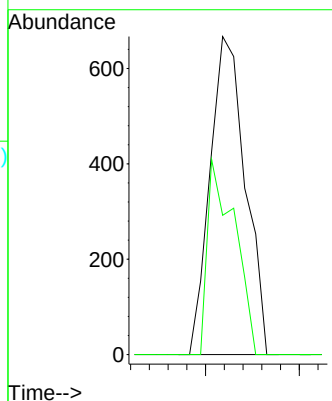
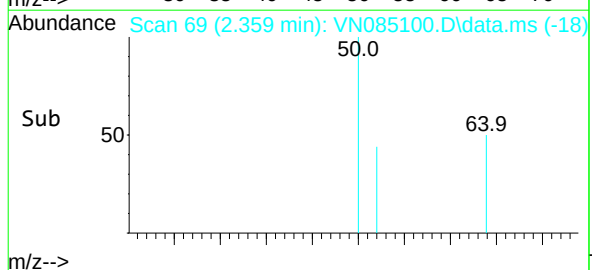
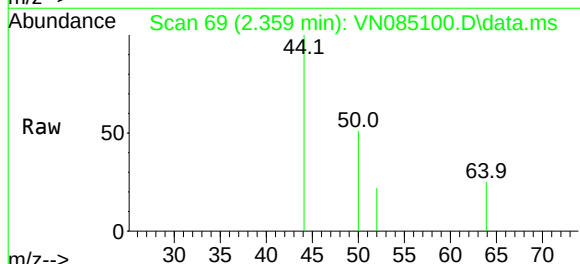


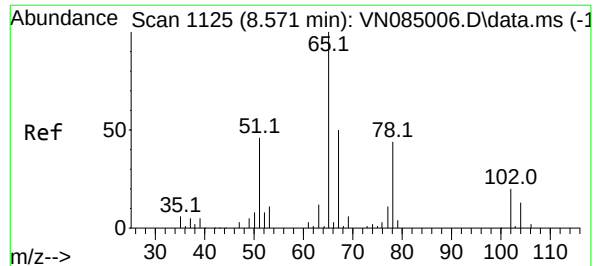
Tgt Ion: 168 Resp: 148763
Ion Ratio Lower Upper
168 100
99 63.3 51.2 76.8



#3
Chloromethane
Concen: 0.447 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085100.D
Acq: 04 Dec 2024 17:37

Tgt Ion: 50 Resp: 873
Ion Ratio Lower Upper
50 100
52 43.8 27.8 41.8#

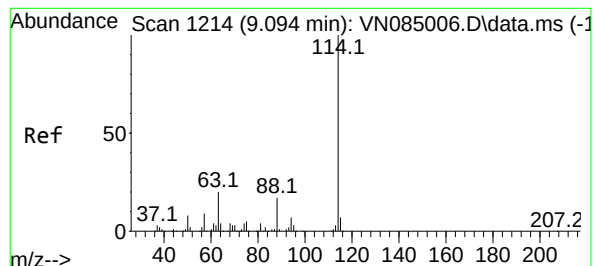
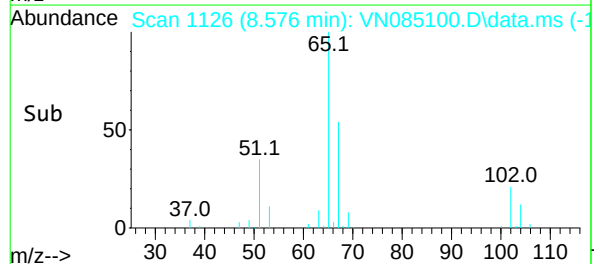
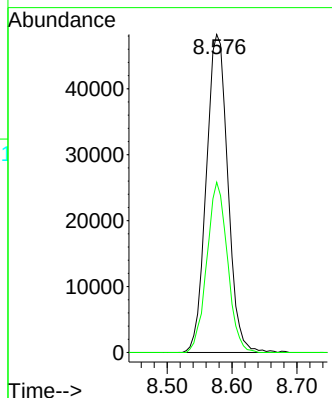
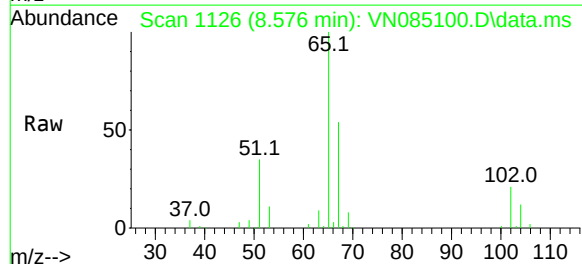




#33
1,2-Dichloroethane-d4
Concen: 52.508 ug/l
RT: 8.576 min Scan# 111
Delta R.T. 0.005 min
Lab File: VN085100.D
Acq: 04 Dec 2024 17:37

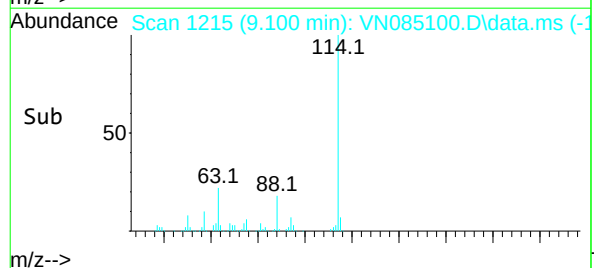
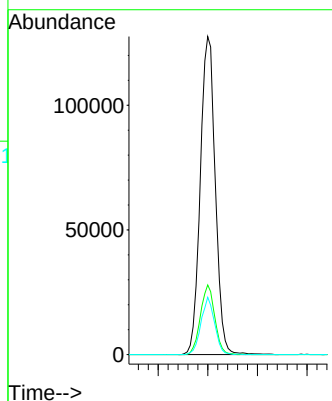
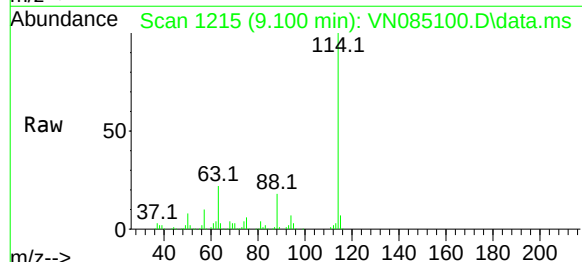
Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-RS-SW001-02

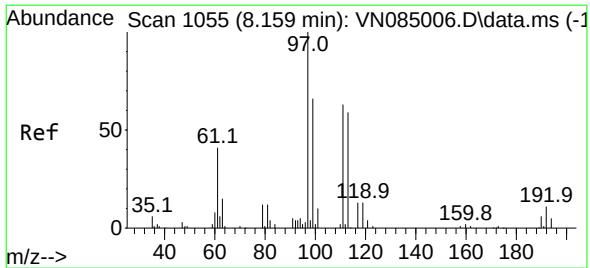
Tgt Ion: 65 Resp: 111266
Ion Ratio Lower Upper
65 100
67 51.3 0.0 105.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.005 min
Lab File: VN085100.D
Acq: 04 Dec 2024 17:37

Tgt Ion: 114 Resp: 268302
Ion Ratio Lower Upper
114 100
63 21.9 0.0 41.0
88 18.0 0.0 34.8





#35

Dibromofluoromethane

Concen: 50.111 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085100.D

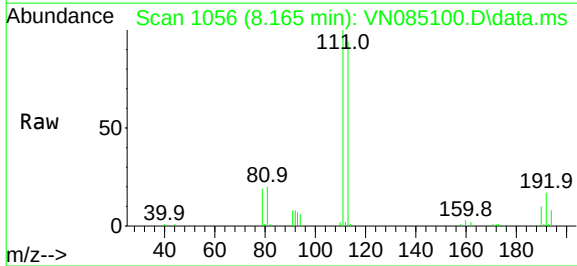
Acq: 04 Dec 2024 17:37

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-02



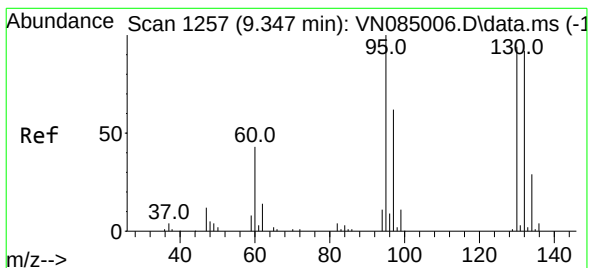
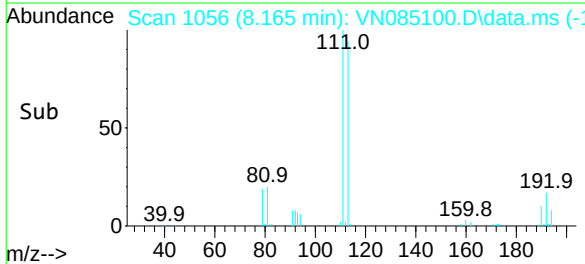
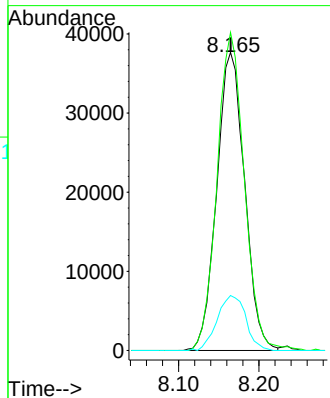
Tgt Ion:113 Resp: 90668

Ion Ratio Lower Upper

113 100

111 104.5 82.0 123.0

192 19.0 14.8 22.2



#44

Trichloroethene

Concen: 0.657 ug/l

RT: 9.359 min Scan# 1259

Delta R.T. 0.011 min

Lab File: VN085100.D

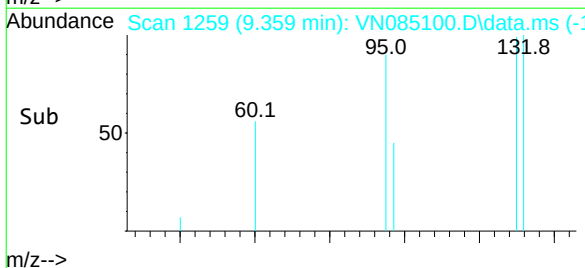
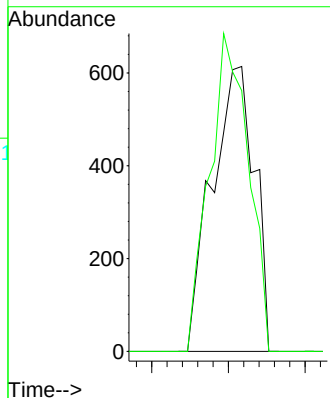
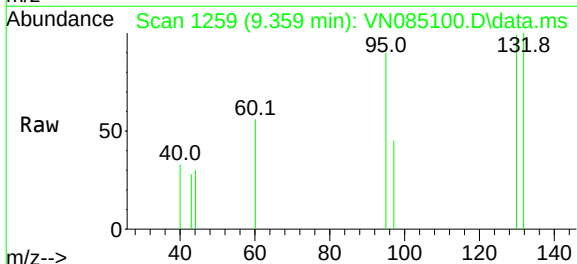
Acq: 04 Dec 2024 17:37

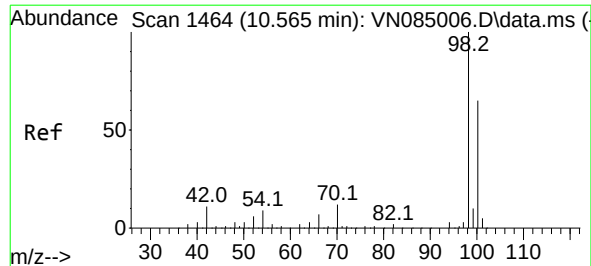
Tgt Ion:130 Resp: 1183

Ion Ratio Lower Upper

130 100

95 91.5 0.0 213.4





#50

Toluene-d8

Concen: 46.438 ug/l

RT: 10.564 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085100.D

Acq: 04 Dec 2024 17:37

Instrument :

MSVOA_N

ClientSampleId :

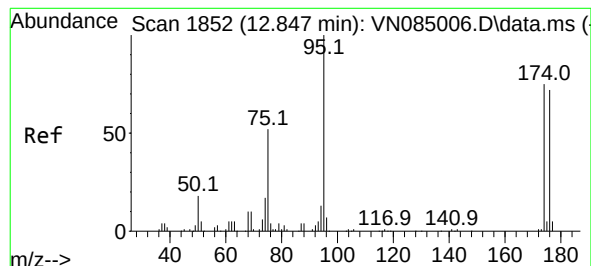
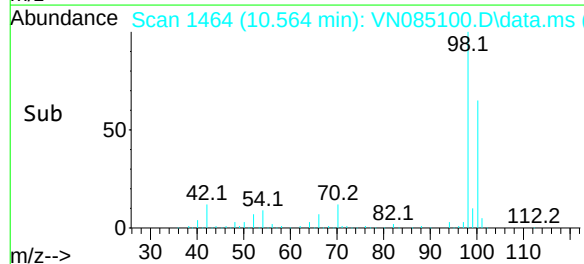
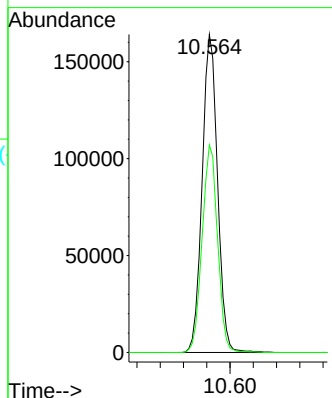
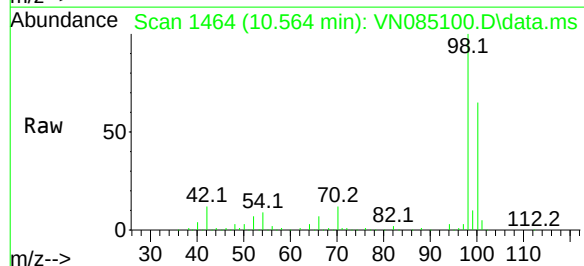
UNIT-51-RS-SW001-02

Tgt Ion: 98 Resp: 301112

Ion Ratio Lower Upper

98 100

100 65.6 52.5 78.7



#62

4-Bromofluorobenzene

Concen: 40.943 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN085100.D

Acq: 04 Dec 2024 17:37

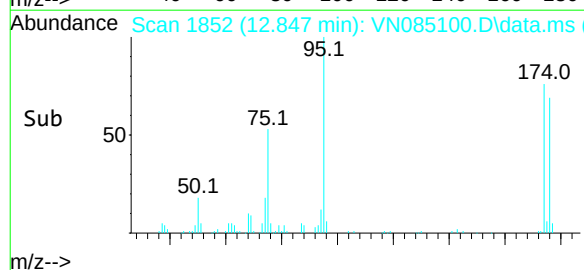
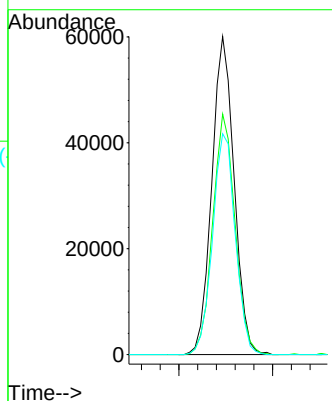
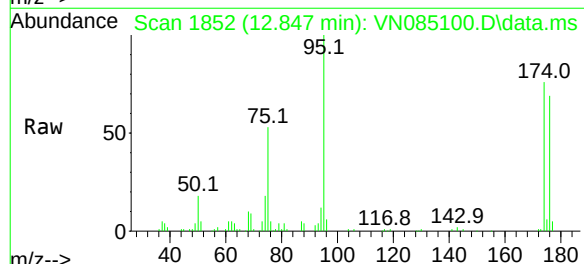
Tgt Ion: 95 Resp: 99282

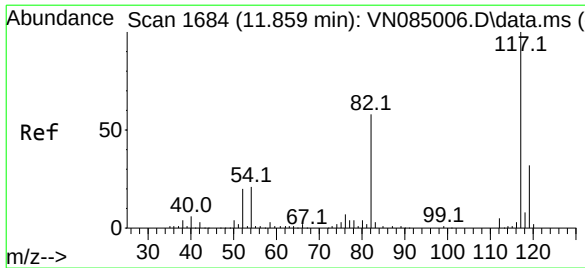
Ion Ratio Lower Upper

95 100

174 75.7 0.0 146.6

176 70.7 0.0 141.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.864 min Scan# 16

Delta R.T. 0.005 min

Lab File: VN085100.D

Acq: 04 Dec 2024 17:37

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-02

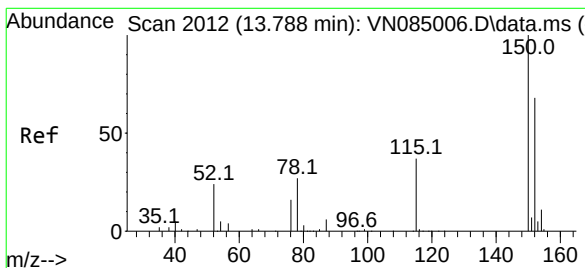
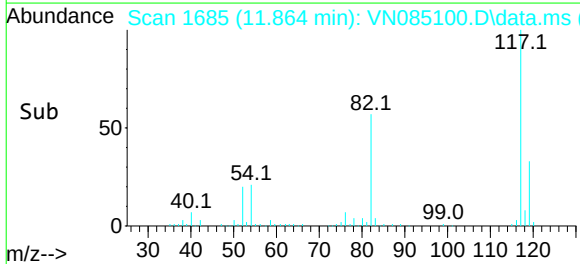
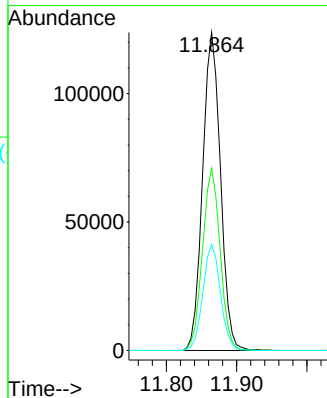
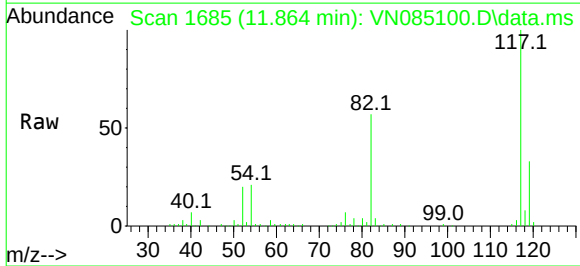
Tgt Ion:117 Resp: 218483

Ion Ratio Lower Upper

117 100

82 57.2 46.0 69.0

119 33.3 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN085100.D

Acq: 04 Dec 2024 17:37

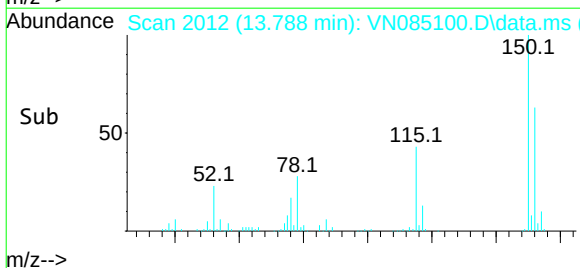
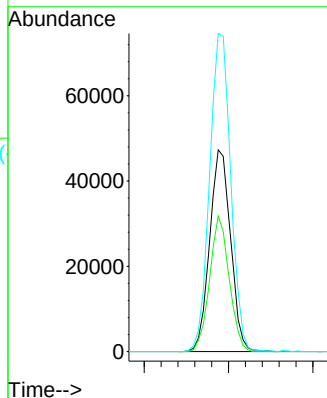
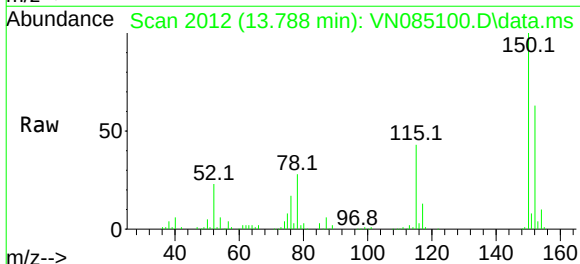
Tgt Ion:152 Resp: 81728

Ion Ratio Lower Upper

152 100

115 62.5 31.7 95.1

150 158.8 0.0 351.4





CALIBRATION SUMMARY

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



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.: P5088 SAS No.: P5088 SDG No.: P5088
 Instrument ID: MSVOA_N Calibration Date(s): 11/22/2024 11/22/2024
 Heated Purge: (Y/N) N Calibration Time(s): 11:22 13:45
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN085005.D		RRF050 = VN085006.D		RRF020 = VN085007.D			
		RRF010 = VN085008.D		RRF005 = VN085009.D		RRF001 = VN085010.D			
COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	RRF	% RSD	
Vinyl Chloride	0.597	0.575	0.579	0.569	0.608	0.608	0.589	2.9	
1,1-Dichloroethene	0.547	0.524	0.534	0.506	0.543	0.531	0.531	2.8	
Methylene Chloride	0.603	0.588	0.619	0.610	0.630	0.748	0.633	9.2	
trans-1,2-Dichloroethene	0.570	0.558	0.565	0.519	0.568	0.571	0.558	3.5	
1,1-Dichloroethane	1.091	1.049	1.084	1.033	1.092	1.116	1.078	2.8	
Carbon Tetrachloride	0.572	0.534	0.543	0.484	0.529	0.500	0.527	5.9	
cis-1,2-Dichloroethene	0.667	0.657	0.672	0.634	0.681	0.729	0.673	4.7	
1,1,1-Trichloroethane	1.047	1.013	1.022	0.993	1.005	1.135	1.036	5	
Trichloroethene	0.352	0.327	0.338	0.320	0.347	0.330	0.336	3.6	
1,1,2-Trichloroethane	0.336	0.322	0.324	0.314	0.314	0.301	0.319	3.7	
Tetrachloroethene	0.350	0.328	0.340	0.322	0.374	0.307	0.337	7	
1,2,3-Trichloropropane	1.009	0.903	0.933	0.768	0.822	1.023	0.909	11.1	
1,2-Dichloroethane-d4	0.738	0.705	0.658	0.735	0.725		0.712	4.6	
Dibromofluoromethane	0.361	0.340	0.311	0.330	0.343		0.337	5.4	
Toluene-d8	1.326	1.249	1.152	1.162	1.154		1.208	6.4	
4-Bromofluorobenzene	0.476	0.467	0.425	0.438	0.454		0.452	4.6	

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N112224W.M
 Title : SW846 8260
 Last Update : Sat Nov 23 02:54:10 2024
 Response Via : Initial Calibration

Calibration Files

1 =VN085010.D 5 =VN085009.D 10 =VN085008.D 20 =VN085007.D 50 =VN085006.D 100 =VN085005.

D

Compound		1	5	10	20	50	100	Avg	%RSD

1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.558	0.590	0.538	0.567	0.560	0.579	0.565	3.24
3) P	Chloromethane	0.906	0.664	0.603	0.599	0.591	0.572	0.656	19.31
4) C	Vinyl Chloride	0.608	0.608	0.569	0.579	0.575	0.597	0.589	2.87#
5) T	Bromomethane		0.366	0.331	0.327	0.311	0.316	0.330	6.54
6) T	Chloroethane	0.458	0.407	0.390	0.380	0.379	0.370	0.397	8.12
7) T	Trichlorofluor...	1.036	1.041	0.947	1.005	0.965	1.021	1.002	3.85
8) T	Diethyl Ether	0.316	0.345	0.322	0.349	0.349	0.367	0.341	5.63
9) T	1,1,2-Trichlor...	0.573	0.576	0.551	0.569	0.551	0.590	0.569	2.65
10) T	Methyl Iodide		0.764	0.704	0.778	0.747	0.769	0.753	3.91
11) T	Tert butyl alc...		0.117	0.096	0.091	0.090	0.081	0.095	14.07
12) CM	1,1-Dichloroet...	0.531	0.543	0.506	0.534	0.524	0.547	0.531	2.78#
13) T	Acrolein		0.057	0.066	0.061	0.070	0.064	0.064	7.50
14) T	Allyl chloride	0.936	0.874	0.868	0.876	0.886	0.929	0.895	3.32
15) T	Acrylonitrile	0.303	0.274	0.251	0.264	0.263	0.262	0.269	6.71
16) T	Acetone	0.209	0.195	0.203	0.206	0.203	0.229	0.207	5.48
17) T	Carbon Disulfide	1.829	1.589	1.462	1.535	1.472	1.511	1.566	8.73
18) T	Methyl Acetate	1.244	0.855	0.714	0.696	0.656	0.657	0.804	28.37
19) T	Methyl tert-bu...	1.674	1.675	1.663	1.764	1.768	1.860	1.734	4.48
20) T	Methylene Chlo...	0.748	0.630	0.610	0.619	0.588	0.603	0.633	9.21
21) T	trans-1,2-Dich...	0.571	0.568	0.519	0.565	0.558	0.570	0.558	3.54
22) T	Diisopropyl ether	1.825	1.816	1.749	1.815	1.781	1.817	1.801	1.64
23) T	Vinyl Acetate	1.161	1.180	1.192	1.279	1.296	1.346	1.242	6.04
24) P	1,1-Dichloroet...	1.116	1.092	1.033	1.084	1.049	1.091	1.078	2.85
25) T	2-Butanone	0.377	0.328	0.317	0.340	0.331	0.341	0.339	6.03
26) T	2,2-Dichloropr...	1.083	1.000	0.945	0.982	0.993	1.034	1.006	4.72
27) T	cis-1,2-Dichlo...	0.729	0.681	0.634	0.672	0.657	0.667	0.673	4.68
28) T	Bromochloromet...	0.438	0.399	0.390	0.409	0.395	0.409	0.407	4.24
29) T	Tetrahydrofuran	0.213	0.212	0.199	0.212	0.214	0.214	0.211	2.69
30) C	Chloroform	1.344	1.140	1.073	1.104	1.099	1.118	1.146	8.65#
31) T	Cyclohexane		1.091	0.915	0.942	0.882	0.914	0.949	8.68
32) T	1,1,1-Trichlor...	1.135	1.005	0.993	1.022	1.013	1.047	1.036	5.02
33) S	1,2-Dichloroet...		0.725	0.735	0.658	0.705	0.738	0.712	4.60
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.343	0.330	0.311	0.340	0.361	0.337	5.43
36) T	1,1-Dichloropr...	0.451	0.469	0.417	0.454	0.455	0.493	0.457	5.46
37) T	Ethyl Acetate	0.412	0.425	0.404	0.427	0.403	0.421	0.415	2.54
38) T	Carbon Tetrach...	0.500	0.529	0.484	0.543	0.534	0.572	0.527	5.93
39) T	Methylcyclohexane	0.382	0.469	0.430	0.486	0.507	0.574	0.475	13.89
40) TM	Benzene	1.462	1.452	1.358	1.443	1.424	1.528	1.444	3.81
41) T	Methacrylonitrile	0.247	0.203	0.223	0.229	0.230	0.246	0.230	7.11
42) TM	1,2-Dichloroet...	0.492	0.529	0.452	0.497	0.481	0.514	0.494	5.42
43) T	Isopropyl Acetate	1.157	0.853	0.786	0.781	0.753	0.844	0.862	17.33
44) TM	Trichloroethene	0.330	0.347	0.320	0.338	0.327	0.352	0.336	3.60
45) C	1,2-Dichloropr...	0.374	0.352	0.340	0.351	0.349	0.369	0.356	3.68#
46) T	Dibromomethane	0.260	0.249	0.225	0.248	0.244	0.257	0.247	4.94
47) T	Bromodichlorom...	0.540	0.520	0.488	0.520	0.522	0.554	0.524	4.26
48) T	Methyl methacr...	0.304	0.316	0.302	0.323	0.329	0.353	0.321	5.84
49) T	1,4-Dioxane	0.005	0.005	0.006	0.006	0.006	0.005	0.006	3.84
50) S	Toluene-d8		1.154	1.162	1.152	1.249	1.326	1.208	6.36
51) T	4-Methyl-2-Pen...	0.361	0.394	0.382	0.406	0.406	0.414	0.394	5.01
52) CM	Toluene	0.780	0.859	0.792	0.881	0.887	0.932	0.855	6.88#
53) T	t-1,3-Dichloro...	0.525	0.479	0.486	0.539	0.549	0.574	0.525	7.01
54) T	cis-1,3-Dichlo...	0.541	0.533	0.506	0.571	0.576	0.617	0.557	6.97
55) T	1,1,2-Trichlor...	0.301	0.314	0.314	0.324	0.322	0.336	0.319	3.72

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\										
Method File : 82N112224W.M										
56)	T	Ethyl methacry...	0.370	0.429	0.437	0.491	0.518	0.549	0.465	14.12
57)	T	1,3-Dichloropr...	0.572	0.562	0.526	0.558	0.558	0.588	0.561	3.66
58)	T	2-Chloroethyl ...	0.167	0.194	0.220	0.243	0.271	0.275	0.228	18.86
59)	T	2-Hexanone	0.245	0.297	0.280	0.317	0.312	0.315	0.295	9.45
60)	T	Dibromochlorom...	0.411	0.387	0.350	0.392	0.386	0.410	0.389	5.71
61)	T	1,2-Dibromoethane	0.323	0.338	0.318	0.328	0.330	0.342	0.330	2.74
62)	S	4-Bromofluorob...	0.454	0.438	0.425	0.467	0.476	0.452		4.61
-----ISTD-----										
63)	I	Chlorobenzene-d5								
64)	T	Tetrachloroethene	0.307	0.374	0.322	0.340	0.328	0.350	0.337	7.01
65)	PM	Chlorobenzene	1.241	1.133	1.089	1.123	1.090	1.128	1.134	4.91
66)	T	1,1,1,2-Tetrac...	0.390	0.420	0.383	0.388	0.398	0.417	0.399	3.93
67)	C	Ethyl Benzene	1.644	1.809	1.698	1.880	1.945	2.063	1.840	8.48#
68)	T	m/p-Xylenes	0.626	0.666	0.663	0.732	0.737	0.778	0.700	8.17
69)	T	o-Xylene	0.598	0.633	0.641	0.685	0.707	0.733	0.666	7.63
70)	T	Styrene	0.921	1.038	1.069	1.178	1.195	1.248	1.108	10.94
71)	P	Bromoform	0.289	0.299	0.273	0.299	0.310	0.309	0.296	4.58
-----ISTD-----										
72)	I	1,4-Dichlorobenzen...								
73)	T	Isopropylbenzene	3.175	3.464	3.402	3.605	3.632	3.888	3.527	6.84
74)	T	N-amyl acetate	1.339	1.383	1.351	1.543	1.552	1.553	1.454	7.30
75)	P	1,1,2,2-Tetrac...	1.517	1.231	1.148	1.152	1.103	1.076	1.204	13.45
76)	T	1,2,3-Trichlor...	1.023	0.822	0.768	0.933	0.903	1.009	0.909	11.13
77)	T	Bromobenzene	1.072	0.967	0.902	0.926	0.919	0.910	0.949	6.76
78)	T	n-propylbenzene	3.534	4.013	3.880	4.201	4.236	4.547	4.068	8.51
79)	T	2-Chlorotoluene	2.779	2.679	2.638	2.751	2.671	2.776	2.716	2.23
80)	T	1,3,5-Trimethy...	2.519	2.842	2.864	3.115	3.146	3.273	2.960	9.24
81)	T	trans-1,4-Dich...	0.440	0.390	0.403	0.408	0.418	0.412		4.60
82)	T	4-Chlorotoluene	2.977	2.819	2.725	2.846	2.774	2.822	2.827	3.00
83)	T	tert-Butylbenzene	2.454	2.444	2.436	2.590	2.631	2.725	2.547	4.72
84)	T	1,2,4-Trimethy...	2.704	2.890	2.927	3.195	3.241	3.322	3.047	7.93
85)	T	sec-Butylbenzene	2.976	3.246	3.280	3.593	3.667	3.880	3.440	9.61
86)	T	p-Isopropyltol...	2.279	2.585	2.740	3.075	3.092	3.269	2.840	13.10
87)	T	1,3-Dichlorobe...	2.326	1.941	1.744	1.785	1.717	1.720	1.872	12.69
88)	T	1,4-Dichlorobe...	2.337	2.034	1.788	1.819	1.760	1.726	1.911	12.31
89)	T	n-Butylbenzene	2.805	2.500	2.375	2.613	2.671	2.882	2.641	7.13
90)	T	Hexachloroethane	0.685	0.634	0.568	0.596	0.607	0.624	0.619	6.42
91)	T	1,2-Dichlorobe...	2.157	1.815	1.685	1.756	1.687	1.665	1.794	10.39
92)	T	1,2-Dibromo-3-...	0.265	0.249	0.223	0.227	0.219	0.214	0.233	8.48
93)	T	1,2,4-Trichlor...	1.178	0.973	0.919	0.949	0.902	0.927	0.975	10.53
94)	T	Hexachlorobuta...	0.556	0.474	0.408	0.441	0.403	0.416	0.450	12.94
95)	T	Naphthalene	2.952	2.683	2.455	2.839	2.835	2.892	2.776	6.52
96)	T	1,2,3-Trichlor...	1.041	0.926	0.849	0.944	0.898	0.922	0.930	6.84

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
 Data File : VN085005.D
 Acq On : 22 Nov 2024 11:22
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations APPROVED

Reviewed By : John Carlone 11/25/2024
 Supervised By : Mahesh Dadoda 11/25/2024

Quant Time: Nov 23 01:57:18 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 23 01:56:57 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	174548	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	280535	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	240979	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	118591	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	257466	103.553	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 207.100%#		
35) Dibromofluoromethane	8.165	113	202772	107.183	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 214.360%#		
50) Toluene-d8	10.565	98	743711	109.694	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 219.380%#		
62) 4-Bromofluorobenzene	12.847	95	266822	105.236	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 210.480%#		

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	202252	102.473	ug/l	98
3) Chloromethane	2.354	50	199697	87.235	ug/l	96
4) Vinyl Chloride	2.512	62	208274	101.241	ug/l	99
5) Bromomethane	2.912	94	110325	95.681	ug/l	93
6) Chloroethane	3.089	64	129044	93.064	ug/l	98
7) Trichlorofluoromethane	3.483	101	356271	101.806	ug/l	98
8) Diethyl Ether	3.953	74	128277	107.697	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.359	101	205989	103.783	ug/l	99
10) Methyl Iodide	4.577	142	268539	102.212	ug/l	98
11) Tert butyl alcohol	5.553	59	141986	427.348	ug/l	97
12) 1,1-Dichloroethene	4.330	96	190847	103.013	ug/l	97
13) Acrolein	4.171	56	111387	502.422	ug/l	96
14) Allyl chloride	5.012	41	324148	103.788	ug/l	99
15) Acrylonitrile	5.712	53	457016	485.851	ug/l	100
16) Acetone	4.424	43	399104	551.165	ug/l	98
17) Carbon Disulfide	4.700	76	527408	96.448	ug/l	97
18) Methyl Acetate	5.018	43	229272	100.214	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	649308	107.267	ug/l	99
20) Methylene Chloride	5.265	84	210468	95.251	ug/l	96
21) trans-1,2-Dichloroethene	5.777	96	199008	102.076	ug/l	92
22) Diisopropyl ether	6.665	45	634389	100.923	ug/l	98
23) Vinyl Acetate	6.595	43	2349580	541.815	ug/l	99
24) 1,1-Dichloroethane	6.565	63	380941	101.270	ug/l	98
25) 2-Butanone	7.477	43	596036	503.469	ug/l	99
26) 2,2-Dichloropropane	7.483	77	360997	102.775	ug/l	100
27) cis-1,2-Dichloroethene	7.483	96	232992	99.132	ug/l	97
28) Bromochloromethane	7.806	49	142811	100.575	ug/l	97
29) Tetrahydrofuran	7.836	42	373666	507.558	ug/l	99
30) Chloroform	7.959	83	390189	97.513	ug/l	98
31) Cyclohexane	8.253	56	318957	96.305	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	365495	101.081	ug/l	98
36) 1,1-Dichloropropene	8.365	75	276659	107.966	ug/l	99
37) Ethyl Acetate	7.553	43	236399	101.478	ug/l	100
38) Carbon Tetrachloride	8.359	117	321086	108.554	ug/l	97
39) Methylcyclohexane	9.594	83	322151	120.983	ug/l	97
40) Benzene	8.600	78	857333	105.783	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
 Data File : VN085005.D
 Acq On : 22 Nov 2024 11:22
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024

Quant Time: Nov 23 01:57:18 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M

Quant Title : SW846 8260

QLast Update : Sat Nov 23 01:56:57 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	138044	107.026	ug/l	99
42) 1,2-Dichloroethane	8.665	62	288320	103.986	ug/l	100
43) Isopropyl Acetate	8.683	43	473683	97.891	ug/l	98
44) Trichloroethene	9.347	130	197483	104.851	ug/l	96
45) 1,2-Dichloropropane	9.618	63	206776	103.586	ug/l	99
46) Dibromomethane	9.706	93	144116	103.900	ug/l	99
47) Bromodichloromethane	9.883	83	310562	105.641	ug/l	98
48) Methyl methacrylate	9.677	41	197798	109.847	ug/l	98
49) 1,4-Dioxane	9.694	88	61188	1959.471	ug/l #	89
51) 4-Methyl-2-Pentanone	10.441	43	1162080	525.783	ug/l	98
52) Toluene	10.630	92	522980	109.001	ug/l	100
53) t-1,3-Dichloropropene	10.830	75	321790	109.180	ug/l	100
54) cis-1,3-Dichloropropene	10.306	75	346064	110.678	ug/l	97
55) 1,1,2-Trichloroethane	11.012	97	188724	105.602	ug/l	99
56) Ethyl methacrylate	10.871	69	307844	117.883	ug/l	98
57) 1,3-Dichloropropane	11.159	76	329902	104.887	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	771827	602.530	ug/l	99
59) 2-Hexanone	11.194	43	884879	535.314	ug/l	100
60) Dibromochloromethane	11.359	129	229875	105.249	ug/l	98
61) 1,2-Dibromoethane	11.465	107	191654	103.624	ug/l	98
64) Tetrachloroethene	11.100	164	168926	104.032	ug/l	94
65) Chlorobenzene	11.888	112	543518	99.452	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	201000	104.459	ug/l	99
67) Ethyl Benzene	11.959	91	994049	112.113	ug/l	100
68) m/p-Xylenes	12.071	106	749782	222.116	ug/l	100
69) o-Xylene	12.394	106	353441	110.070	ug/l	99
70) Styrene	12.406	104	601271	112.600	ug/l	100
71) Bromoform	12.576	173	148879	104.234	ug/l #	99
73) Isopropylbenzene	12.694	105	922085	110.216	ug/l	100
74) N-amyl acetate	12.494	43	368260	106.820	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	255286	89.359	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	239373m	107.901	ug/l	
77) Bromobenzene	12.976	156	215866	95.881	ug/l	98
78) n-propylbenzene	13.035	91	1078373	111.753	ug/l	99
79) 2-Chlorotoluene	13.123	91	658525	102.230	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	776252	110.573	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	99218	104.513	ug/l	96
82) 4-Chlorotoluene	13.218	91	669311	99.811	ug/l	99
83) tert-Butylbenzene	13.435	119	646369	107.009	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	787962	109.040	ug/l	100
85) sec-Butylbenzene	13.612	105	920223	112.777	ug/l	99
86) p-Isopropyltoluene	13.729	119	775322	115.104	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	407844	91.842	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	409489	90.361	ug/l	99
89) n-Butylbenzene	14.053	91	683538	109.120	ug/l	99
90) Hexachloroethane	14.335	117	147973	100.783	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	394872	92.796	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	50863	92.071	ug/l	95
93) 1,2,4-Trichlorobenzene	15.388	180	219866	95.107	ug/l	99
94) Hexachlorobutadiene	15.500	225	98588	92.405	ug/l	99
95) Naphthalene	15.641	128	685964	104.183	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	218578	99.092	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085005.D
Acq On : 22 Nov 2024 11:22
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Quant Time: Nov 23 01:57:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024

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\VN112224\
 Data File : VN085005.D
 Acq On : 22 Nov 2024 11:22
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Manual Integrations

APPROVED

Reviewed By : John Carlone 11/25/2024

Supervised By : Mahesh Dadoda 11/25/2024

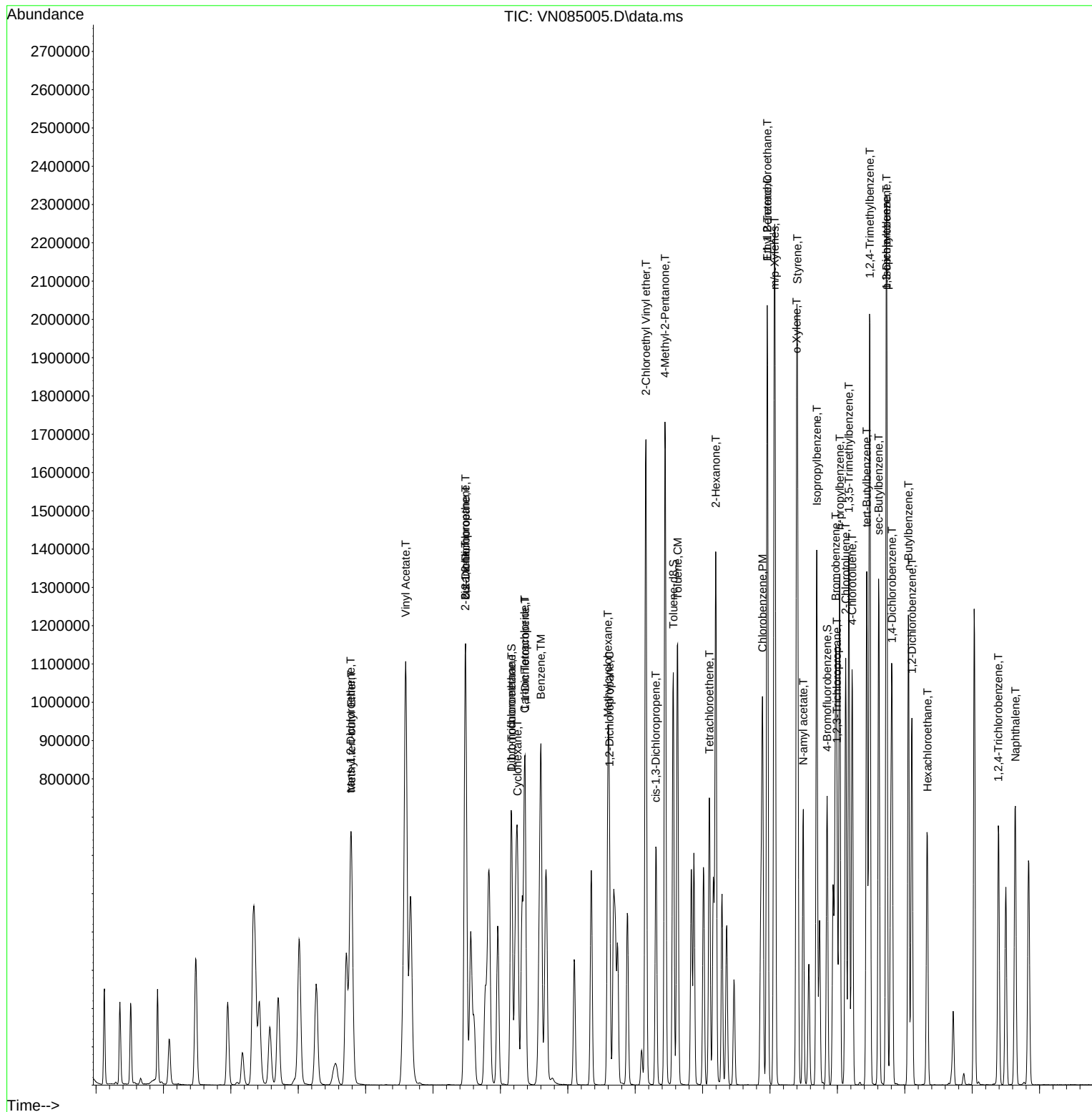
Quant Time: Nov 23 01:57:18 2024

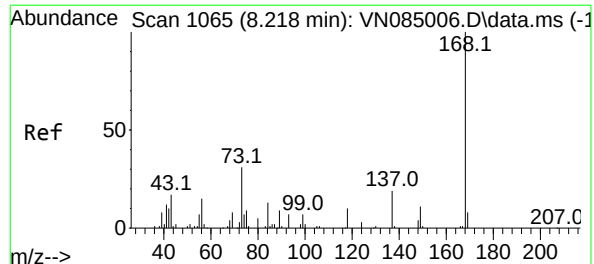
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M

Quant Title : SW846 8260

QLast Update : Sat Nov 23 01:56:57 2024

Response via : Initial Calibration





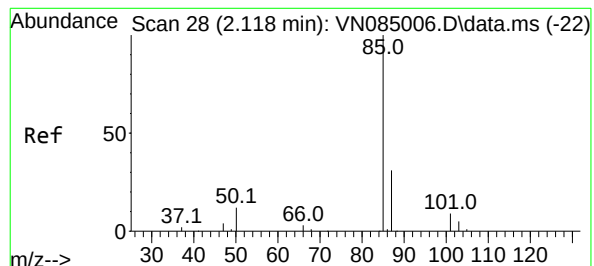
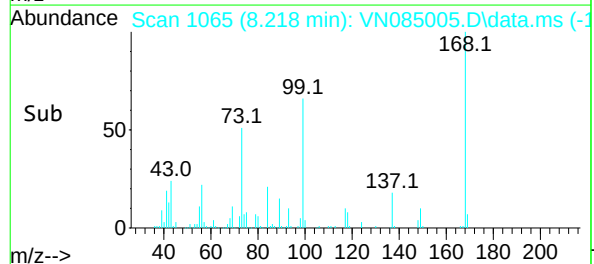
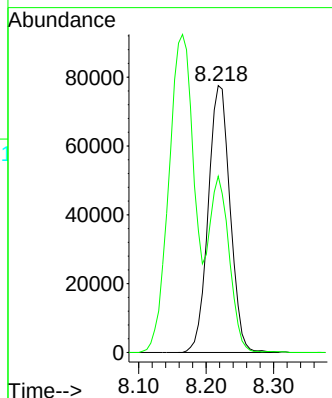
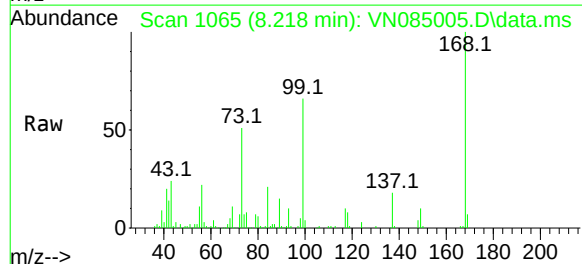
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085005.D
Acq: 22 Nov 2024 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 168 Resp: 174548
Ion Ratio Lower Upper
168 100
99 65.7 51.2 76.8

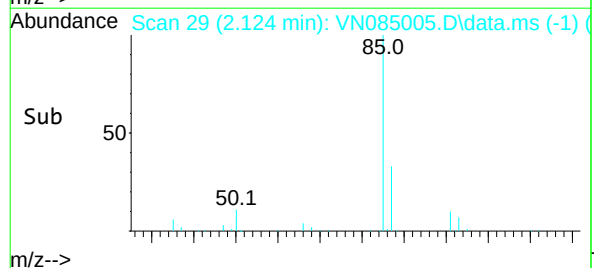
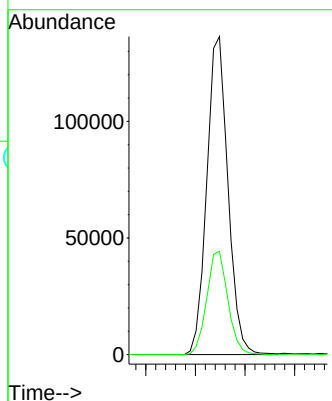
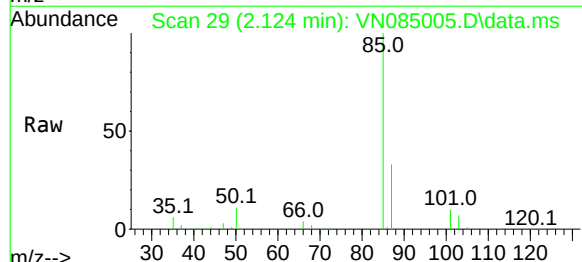
Manual Integrations
APPROVED

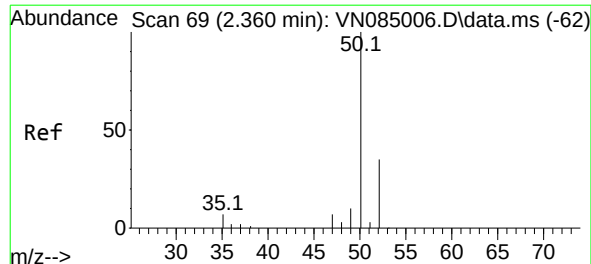
Reviewed By : John Carlone 11/25/2024
Supervised By : Mahesh Dadoda 11/25/2024



#2
Dichlorodifluoromethane
Concen: 102.473 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.006 min
Lab File: VN085005.D
Acq: 22 Nov 2024 11:22

Tgt Ion: 85 Resp: 202252
Ion Ratio Lower Upper
85 100
87 32.5 15.7 47.1





#3

Chloromethane

Concen: 87.235 ug/l

RT: 2.354 min Scan# 68

Delta R.T. -0.006 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 50 Resp: 199697

Ion Ratio Lower Upper

50 100

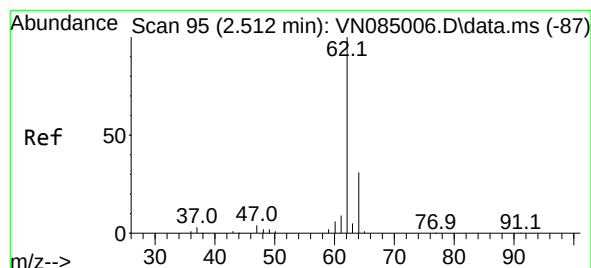
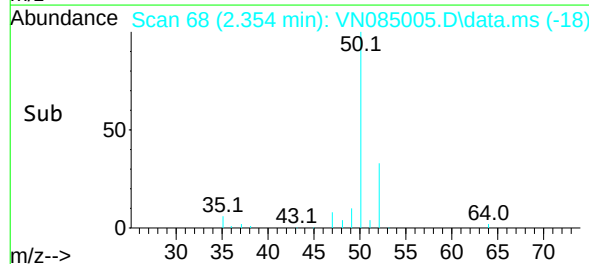
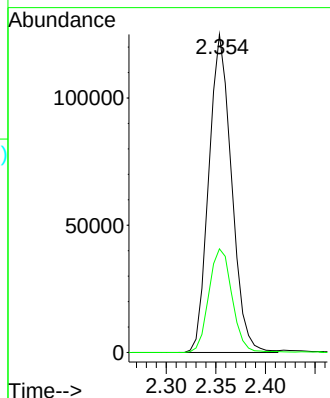
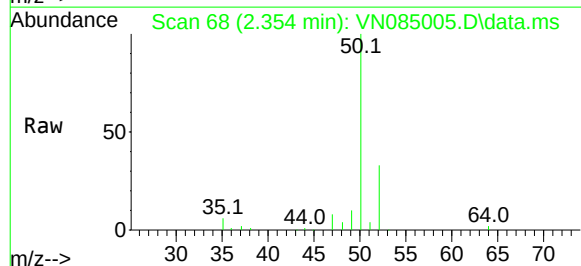
52 32.6 27.8 41.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#4

Vinyl Chloride

Concen: 101.241 ug/l

RT: 2.512 min Scan# 95

Delta R.T. -0.000 min

Lab File: VN085005.D

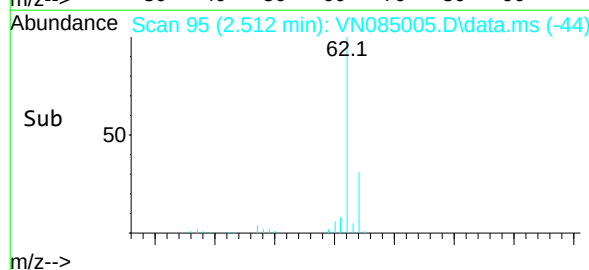
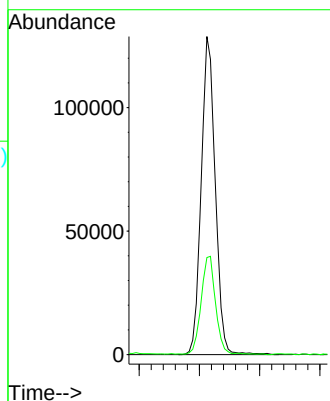
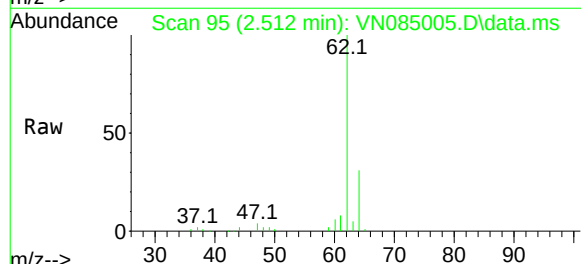
Acq: 22 Nov 2024 11:22

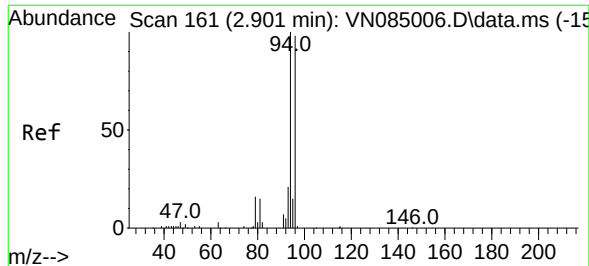
Tgt Ion: 62 Resp: 208274

Ion Ratio Lower Upper

62 100

64 30.3 24.6 36.8





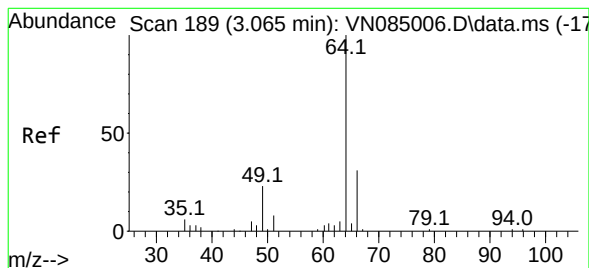
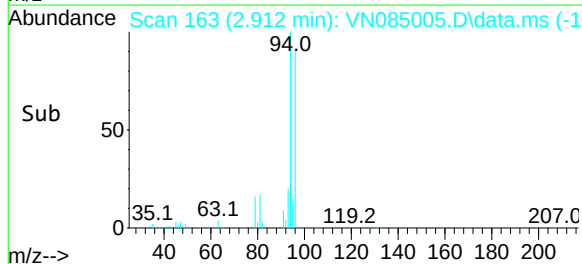
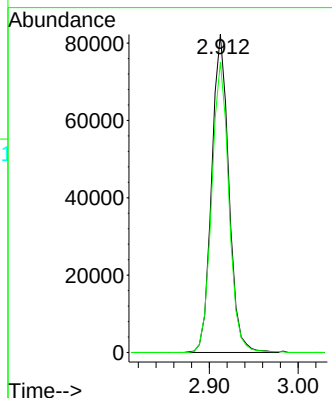
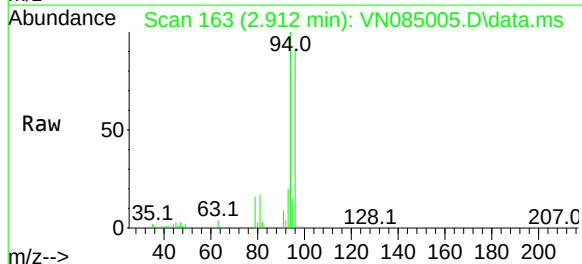
#5
Bromomethane
Concen: 95.681 ug/l
RT: 2.912 min Scan# 161
Delta R.T. 0.012 min
Lab File: VN085005.D
Acq: 22 Nov 2024 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 110325
Ion Ratio Lower Upper
94 100
96 91.3 78.7 118.1

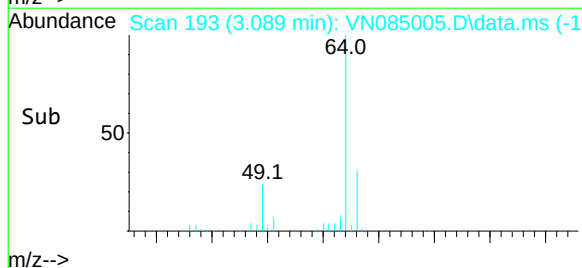
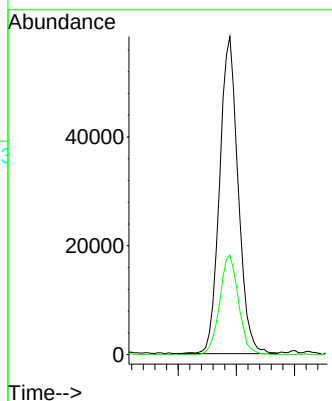
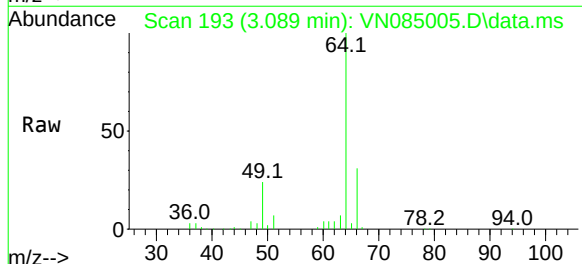
Manual Integrations
APPROVED

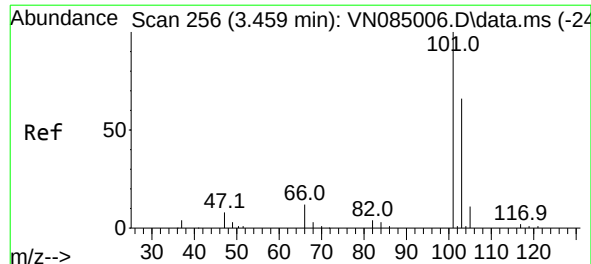
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#6
Chloroethane
Concen: 93.064 ug/l
RT: 3.089 min Scan# 193
Delta R.T. 0.024 min
Lab File: VN085005.D
Acq: 22 Nov 2024 11:22

Tgt Ion: 64 Resp: 129044
Ion Ratio Lower Upper
64 100
66 31.3 24.4 36.6





#7

Trichlorofluoromethane

Concen: 101.806 ug/l

RT: 3.483 min Scan# 26

Delta R.T. 0.024 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:101 Resp: 356271

Ion Ratio Lower Upper

101 100

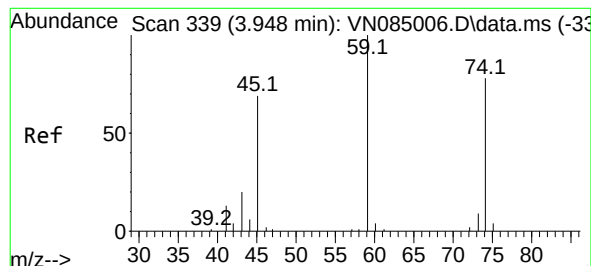
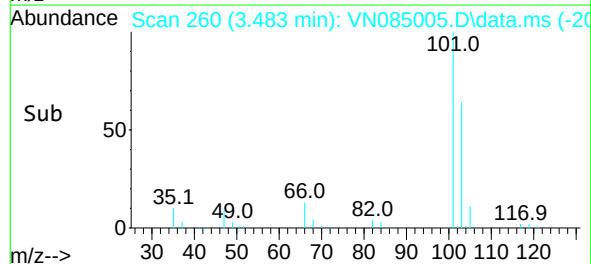
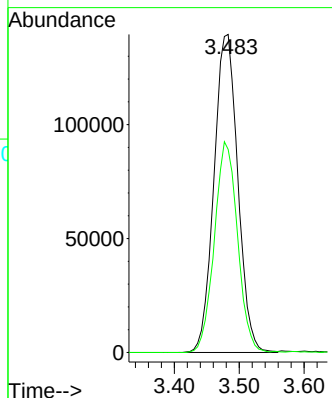
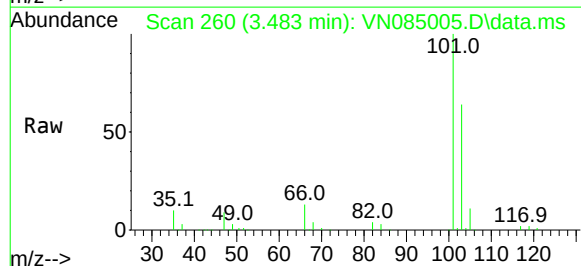
103 63.8 52.6 78.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#8

Diethyl Ether

Concen: 107.697 ug/l

RT: 3.953 min Scan# 340

Delta R.T. 0.006 min

Lab File: VN085005.D

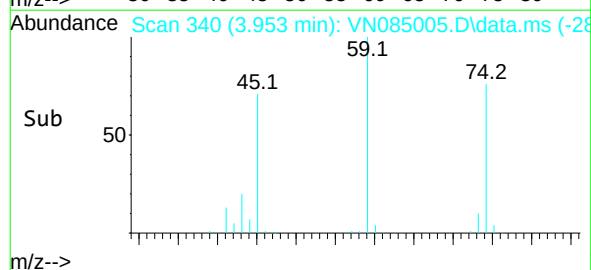
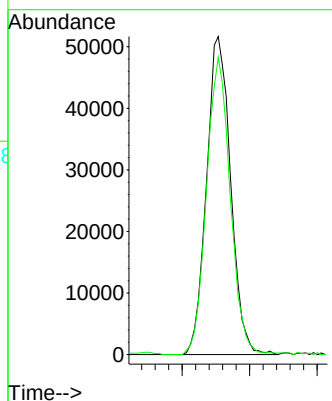
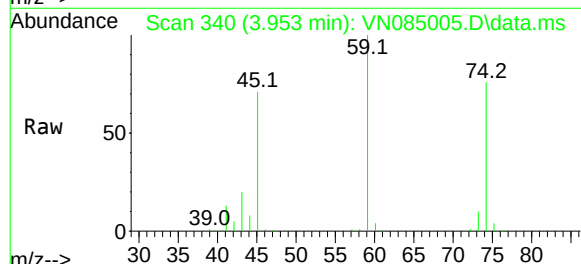
Acq: 22 Nov 2024 11:22

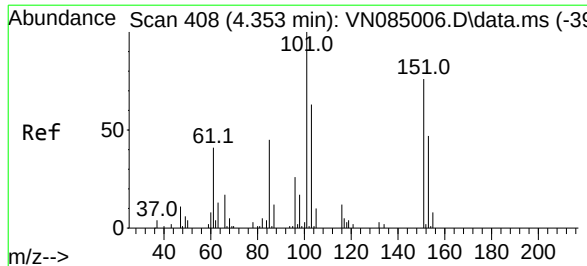
Tgt Ion: 74 Resp: 128277

Ion Ratio Lower Upper

74 100

45 91.9 46.7 140.1





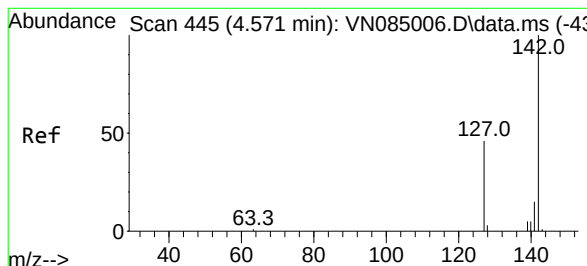
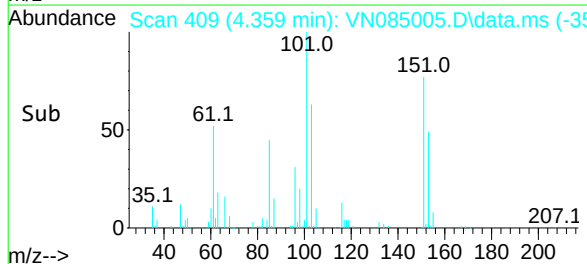
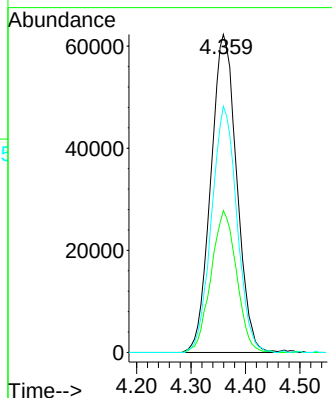
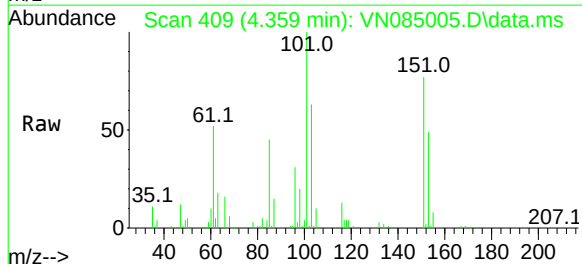
#9
1,1,2-Trichlorotrifluoroethane
Concen: 103.783 ug/l
RT: 4.359 min Scan# 408
Delta R.T. 0.006 min
Lab File: VN085005.D
Acq: 22 Nov 2024 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion	Ratio	Lower	Upper
101	100		
85	44.0	36.9	55.3
151	75.9	60.8	91.2

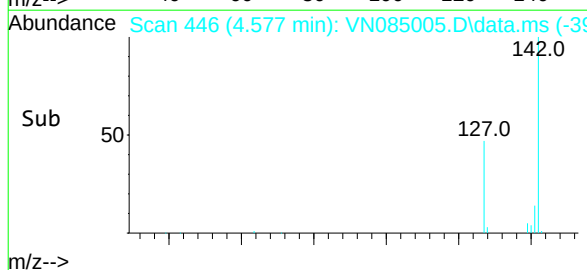
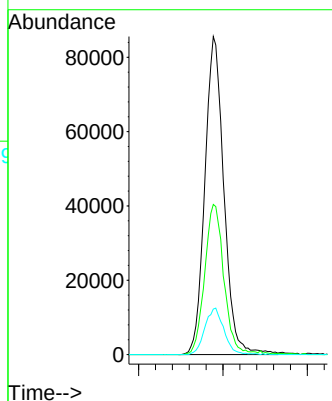
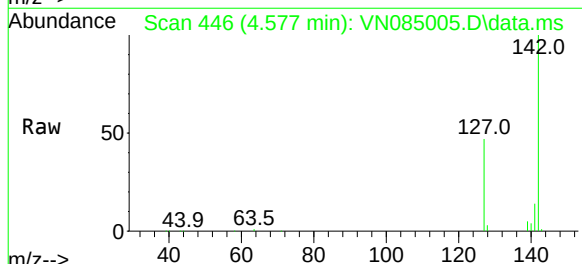
Manual Integrations
APPROVED

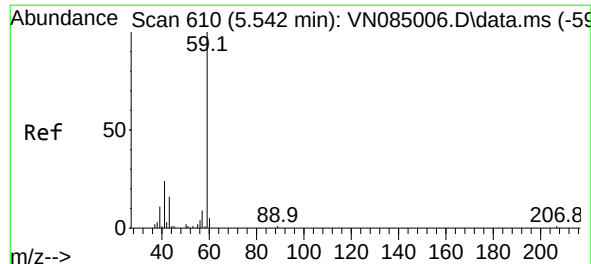
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#10
Methyl Iodide
Concen: 102.212 ug/l
RT: 4.577 min Scan# 446
Delta R.T. 0.006 min
Lab File: VN085005.D
Acq: 22 Nov 2024 11:22

Tgt Ion	Ratio	Lower	Upper
142	100		
127	47.2	36.6	54.8
141	14.3	12.2	18.4





#11

Tert butyl alcohol

Concen: 427.348 ug/l

RT: 5.553 min Scan# 61

Delta R.T. 0.012 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Tgt Ion: 59 Resp: 141986

Ion Ratio Lower Upper

59 100

57 10.2 7.4 11.0

Instrument :

MSVOA_N

ClientSampleId :

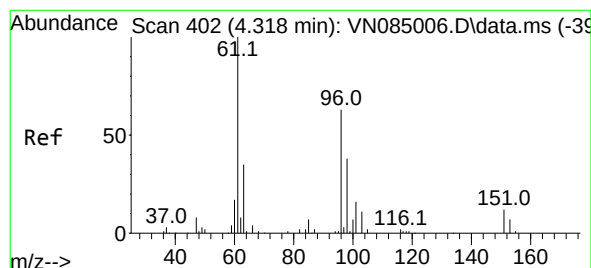
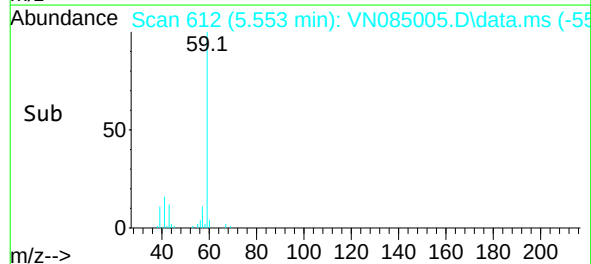
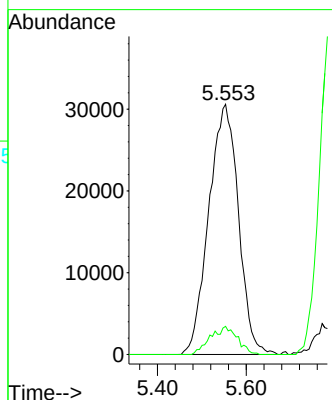
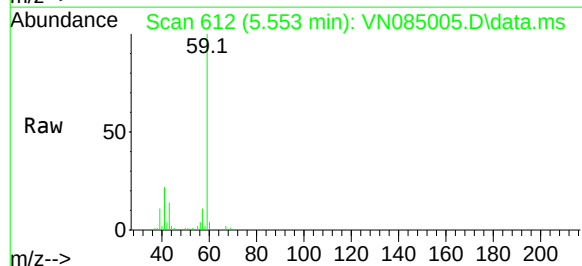
VSTDICC100

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#12

1,1-Dichloroethene

Concen: 103.013 ug/l

RT: 4.330 min Scan# 404

Delta R.T. 0.012 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

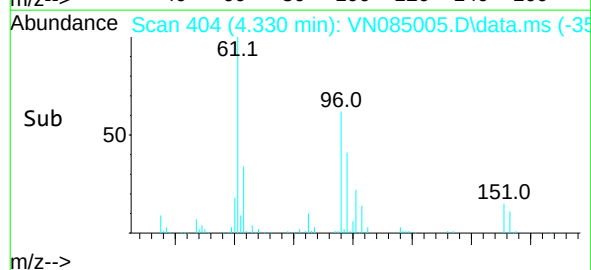
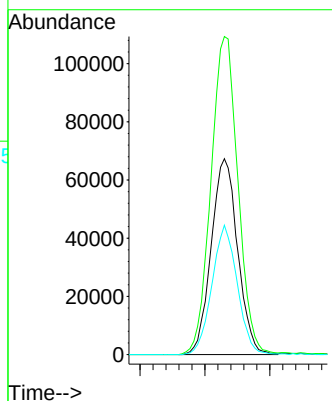
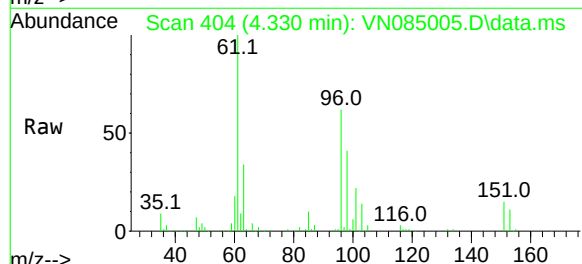
Tgt Ion: 96 Resp: 190847

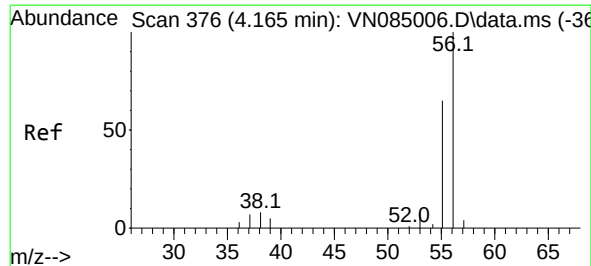
Ion Ratio Lower Upper

96 100

61 162.4 127.8 191.8

98 66.1 49.2 73.8





#13

Acrolein

Concen: 502.422 ug/l

RT: 4.171 min Scan# 37

Delta R.T. 0.006 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 111387

Ion Ratio Lower Upper

56 100

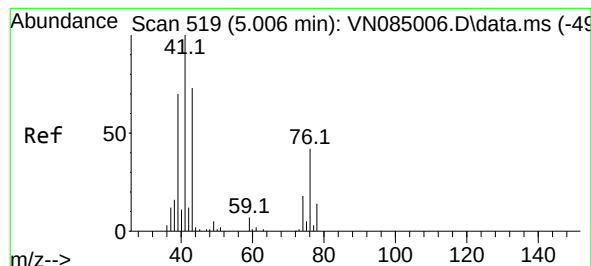
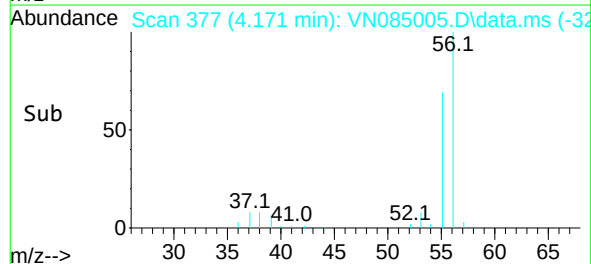
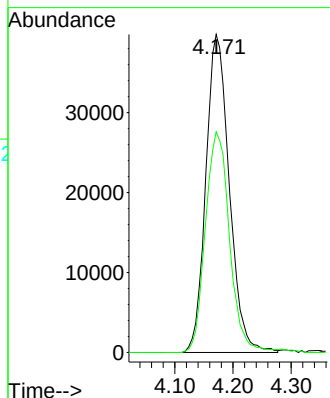
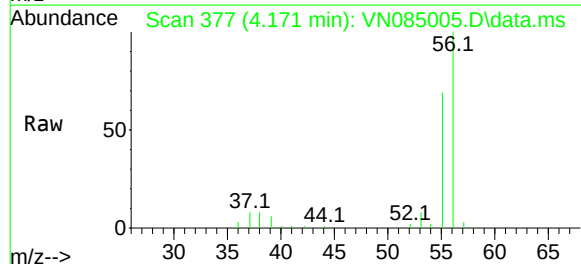
55 71.2 54.5 81.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#14

Allyl chloride

Concen: 103.788 ug/l

RT: 5.012 min Scan# 520

Delta R.T. 0.006 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

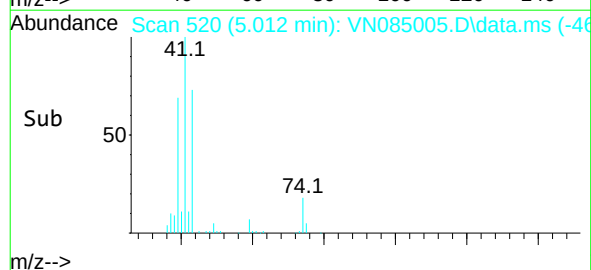
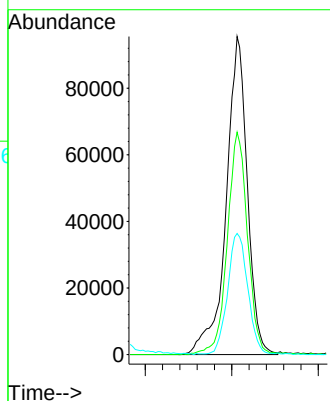
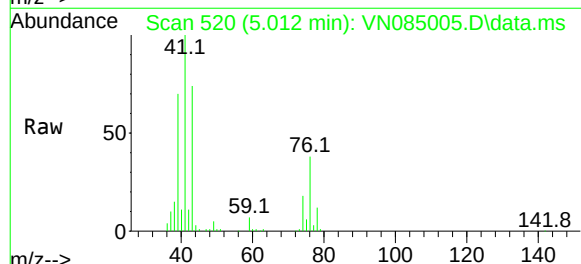
Tgt Ion: 41 Resp: 324148

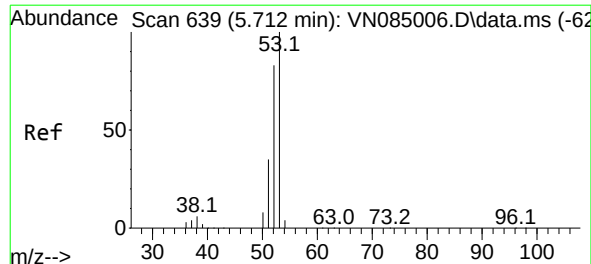
Ion Ratio Lower Upper

41 100

39 66.7 53.8 80.8

76 35.8 29.3 43.9





#15

Acrylonitrile

Concen: 485.851 ug/l

RT: 5.712 min Scan# 639

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 53 Resp: 457016

Ion Ratio Lower Upper

53 100

52 81.8 65.5 98.3

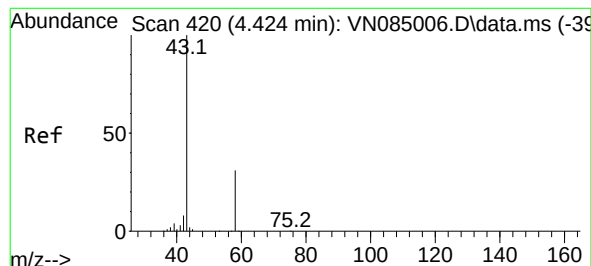
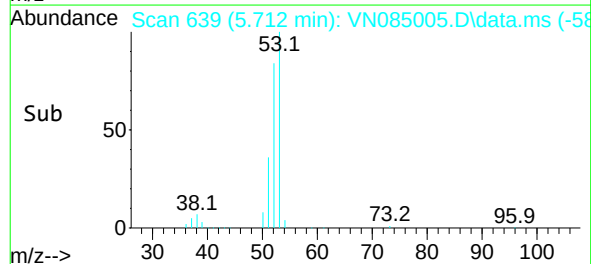
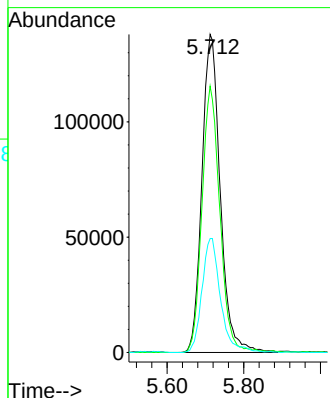
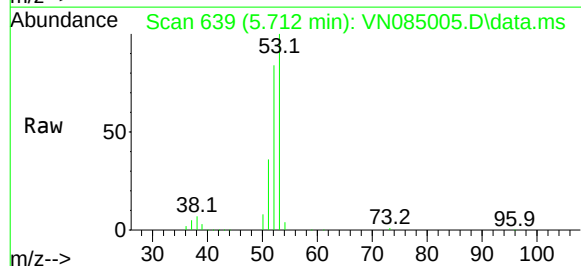
51 36.3 28.4 42.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#16

Acetone

Concen: 551.165 ug/l

RT: 4.424 min Scan# 420

Delta R.T. -0.000 min

Lab File: VN085005.D

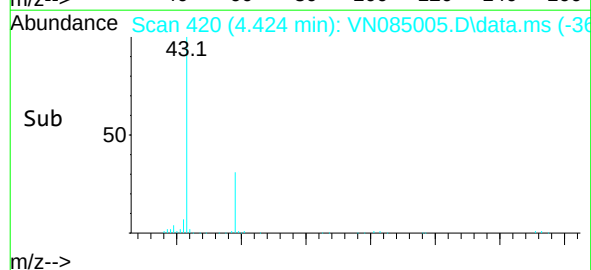
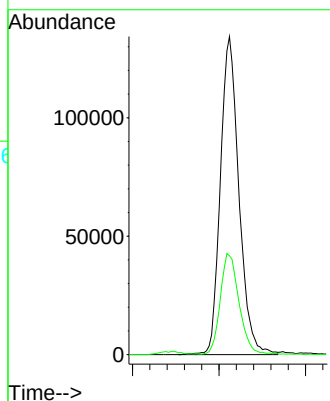
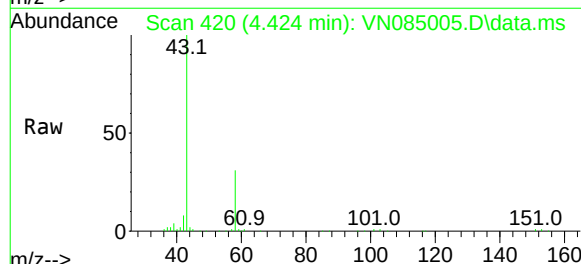
Acq: 22 Nov 2024 11:22

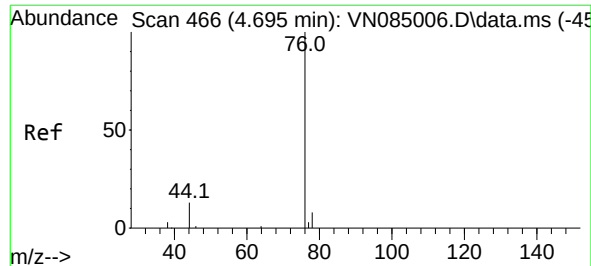
Tgt Ion: 43 Resp: 399104

Ion Ratio Lower Upper

43 100

58 30.8 25.4 38.2





#17

Carbon Disulfide

Concen: 96.448 ug/l

RT: 4.700 min Scan# 466

Delta R.T. 0.006 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 76 Resp: 527408

Ion Ratio Lower Upper

76 100

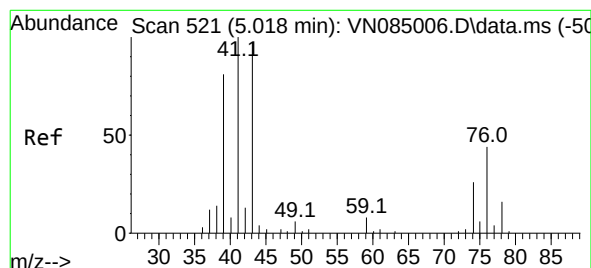
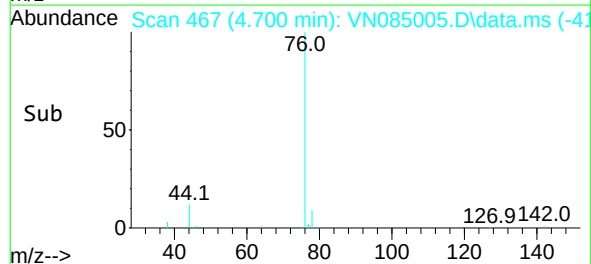
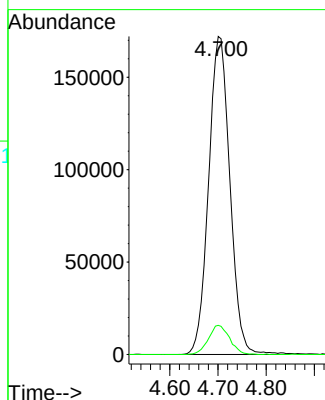
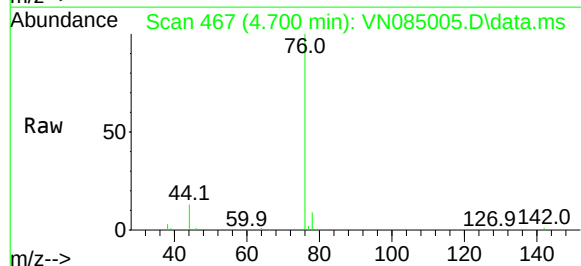
78 9.2 6.5 9.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#18

Methyl Acetate

Concen: 100.214 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN085005.D

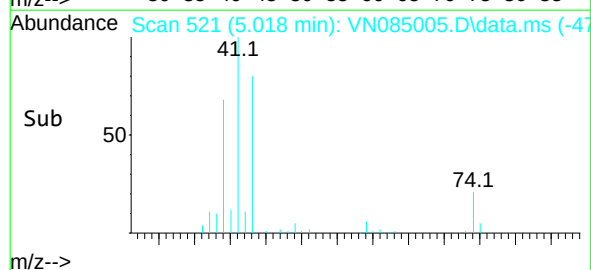
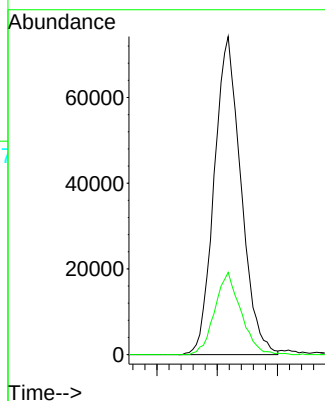
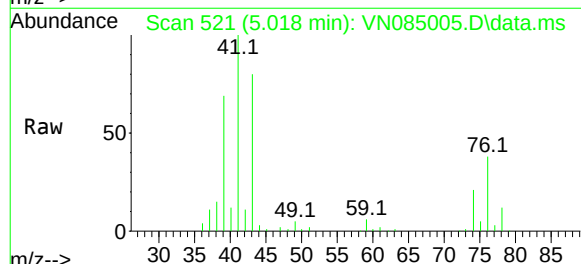
Acq: 22 Nov 2024 11:22

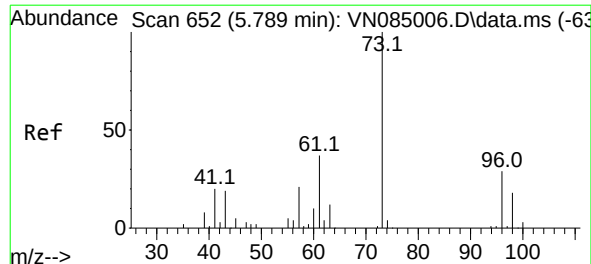
Tgt Ion: 43 Resp: 229272

Ion Ratio Lower Upper

43 100

74 25.2 20.1 30.1





#19

Methyl tert-butyl Ether

Concen: 107.267 ug/l

RT: 5.789 min Scan# 65

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 73 Resp: 649308

Ion Ratio Lower Upper

73 100

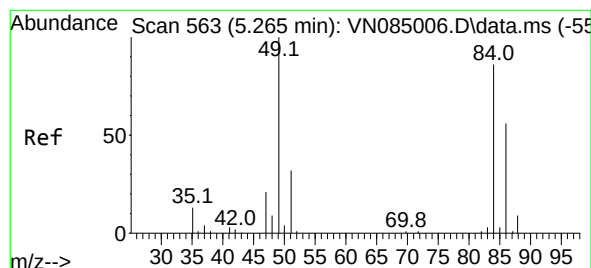
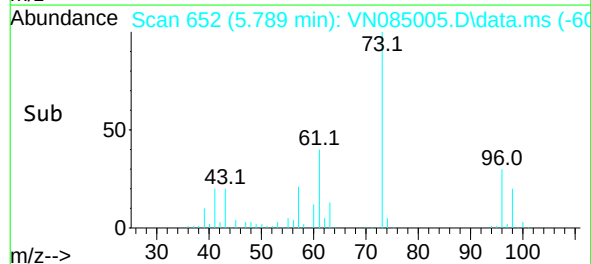
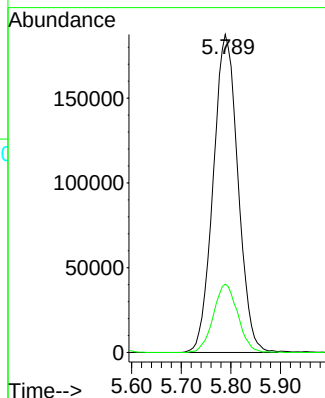
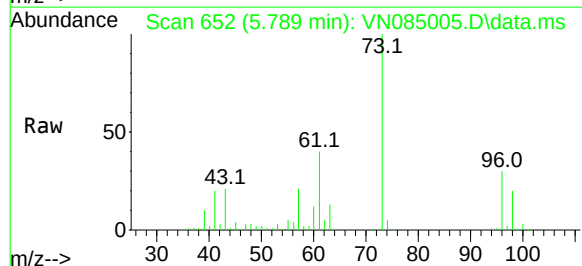
57 21.5 17.0 25.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#20

Methylene Chloride

Concen: 95.251 ug/l

RT: 5.265 min Scan# 563

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Tgt Ion: 84 Resp: 210468

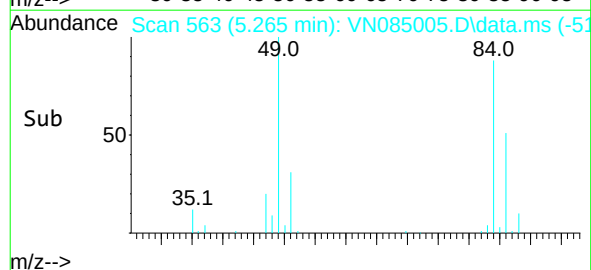
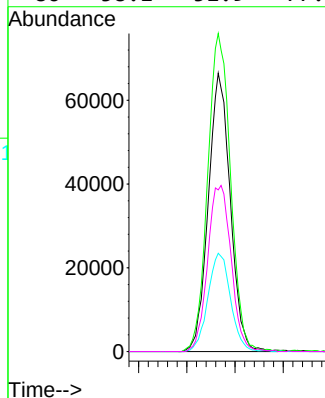
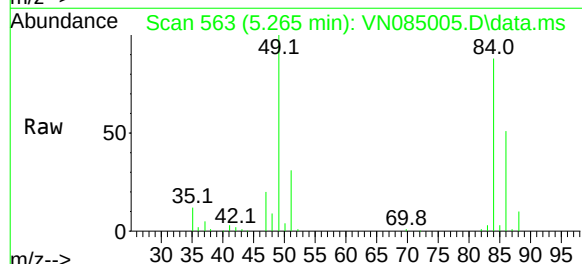
Ion Ratio Lower Upper

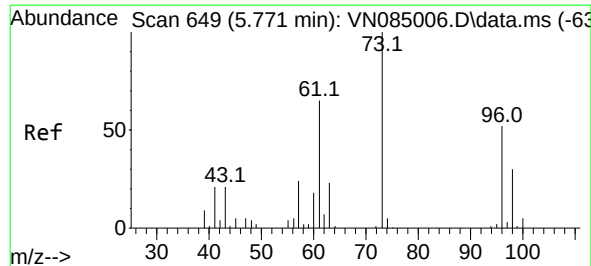
84 100

49 114.2 92.7 139.1

51 35.3 29.4 44.2

86 58.1 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 102.076 ug/l

RT: 5.777 min Scan# 65

Delta R.T. 0.006 min

Lab File: VN085005.D

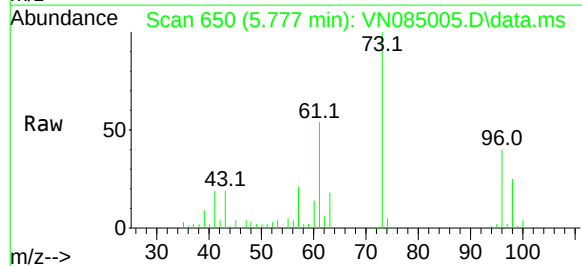
Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100



Tgt Ion: 96 Resp: 199008

Ion Ratio Lower Upper

96 100

61 135.1 100.7 151.1

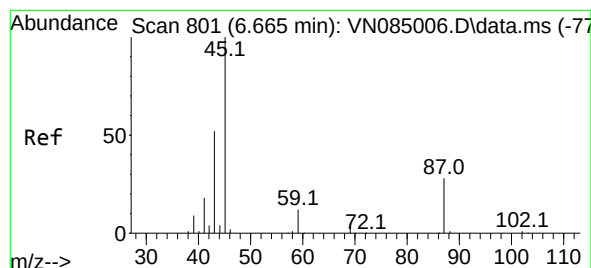
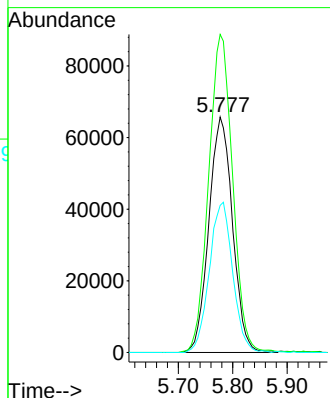
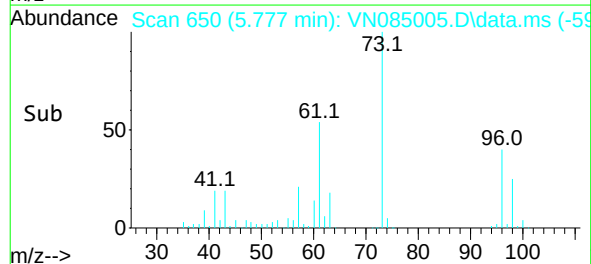
98 62.5 45.8 68.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#22

Diisopropyl ether

Concen: 100.923 ug/l

RT: 6.665 min Scan# 801

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Tgt Ion: 45 Resp: 634389

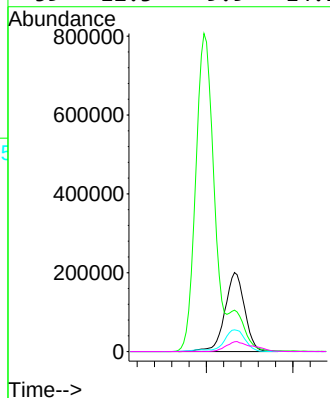
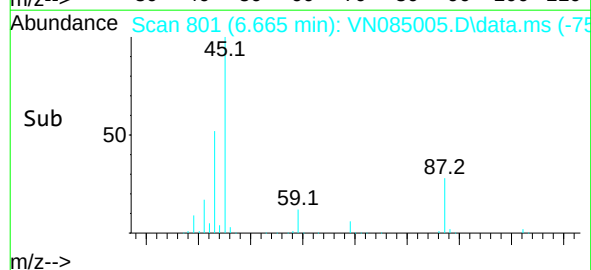
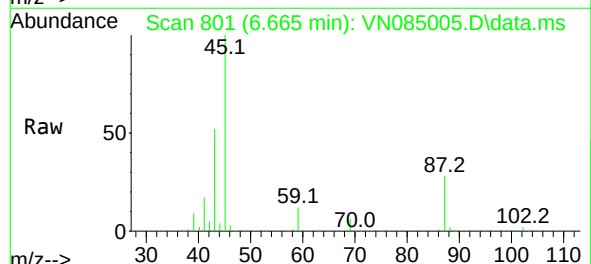
Ion Ratio Lower Upper

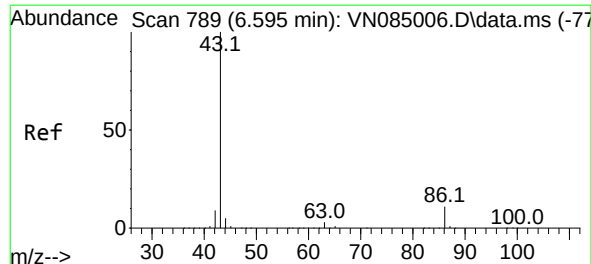
45 100

43 51.5 42.7 64.1

87 27.3 22.6 34.0

59 12.3 9.9 14.9





#23

Vinyl Acetate

Concen: 541.815 ug/l

RT: 6.595 min Scan# 789

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 2349580

Ion Ratio Lower Upper

43 100

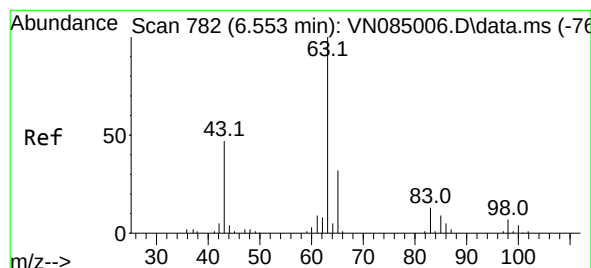
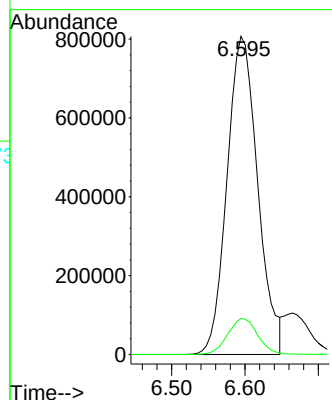
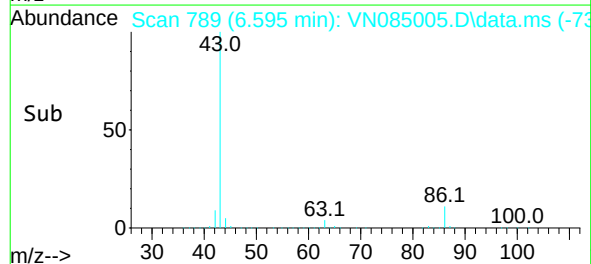
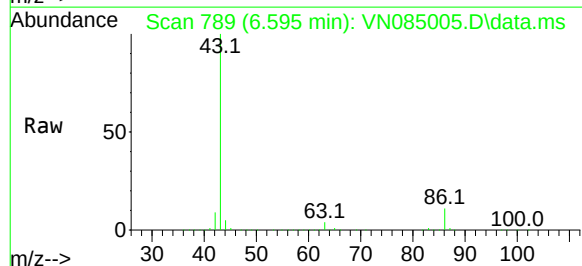
86 11.3 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#24

1,1-Dichloroethane

Concen: 101.270 ug/l

RT: 6.565 min Scan# 784

Delta R.T. 0.012 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

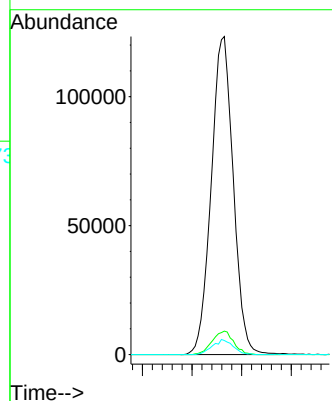
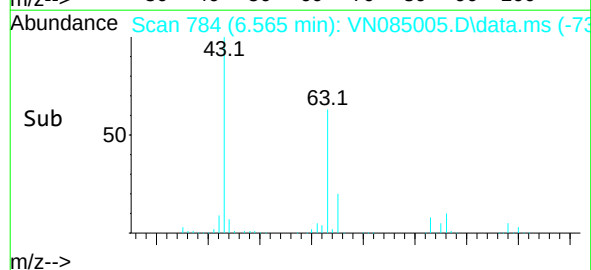
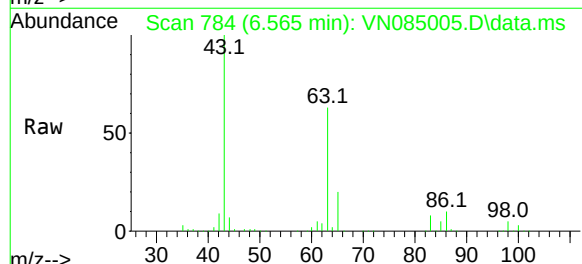
Tgt Ion: 63 Resp: 380941

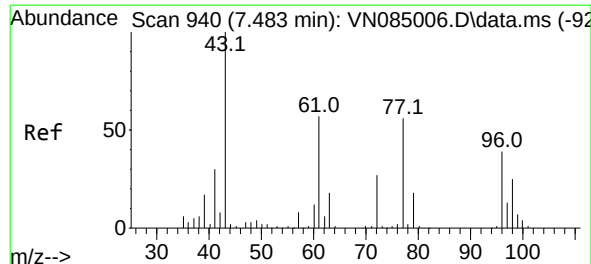
Ion Ratio Lower Upper

63 100

98 7.4 3.3 9.8

100 4.4 2.2 6.6





#25

2-Butanone

Concen: 503.469 ug/l

RT: 7.477 min Scan# 93

Delta R.T. -0.006 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 596036

Ion Ratio Lower Upper

43 100

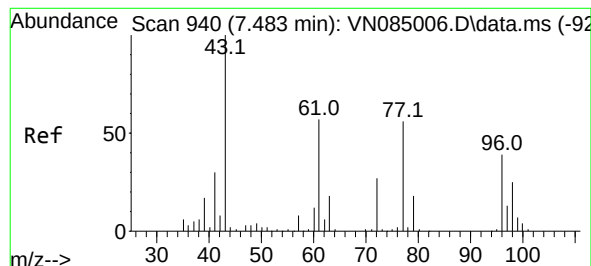
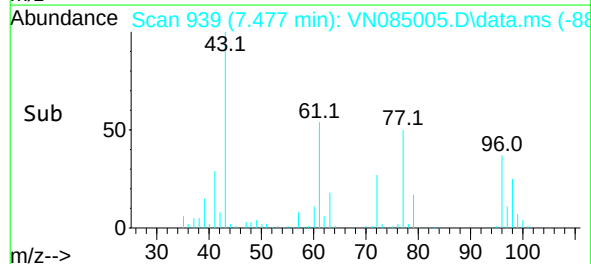
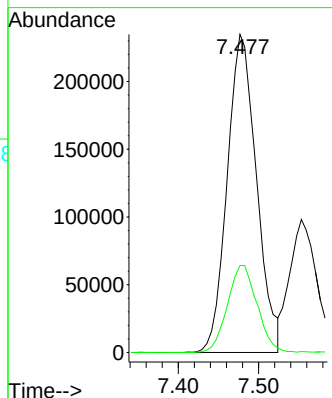
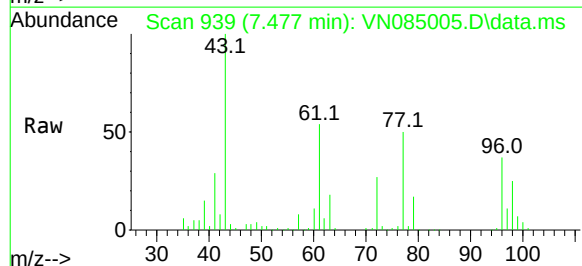
72 27.3 21.4 32.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#26

2,2-Dichloropropane

Concen: 102.775 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN085005.D

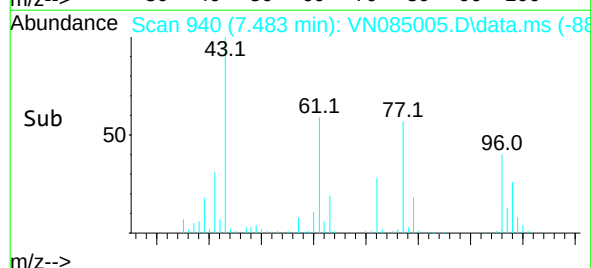
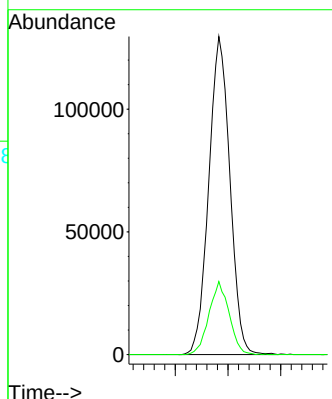
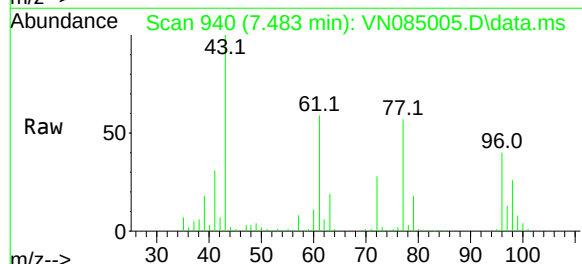
Acq: 22 Nov 2024 11:22

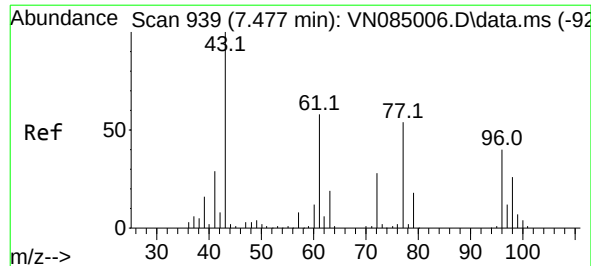
Tgt Ion: 77 Resp: 360997

Ion Ratio Lower Upper

77 100

97 21.9 10.9 32.7





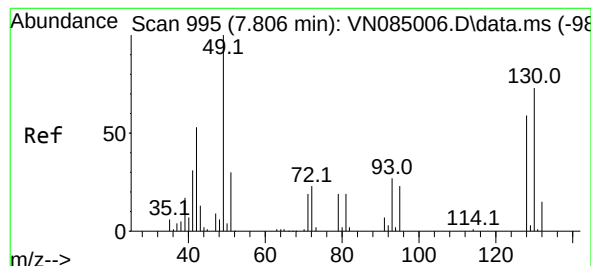
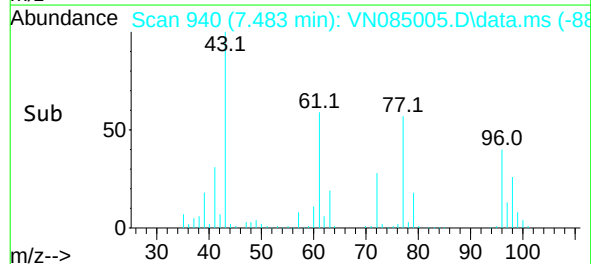
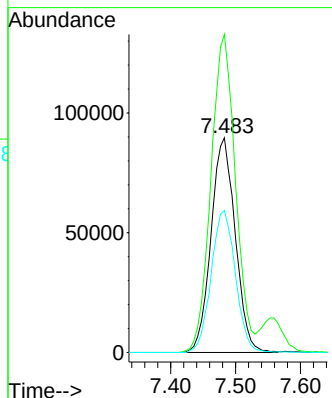
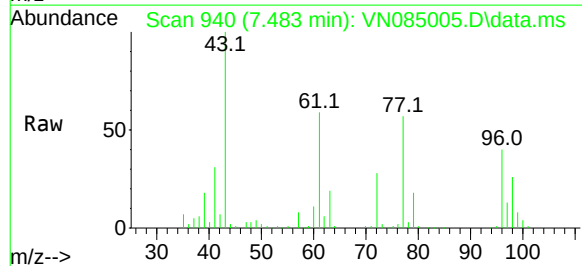
#27
cis-1,2-Dichloroethene
Concen: 99.132 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN085005.D
Acq: 22 Nov 2024 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 232992
Ion Ratio Lower Upper
96 100
61 149.6 0.0 291.6
98 66.3 0.0 129.8

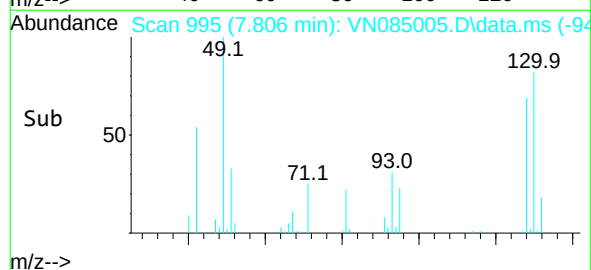
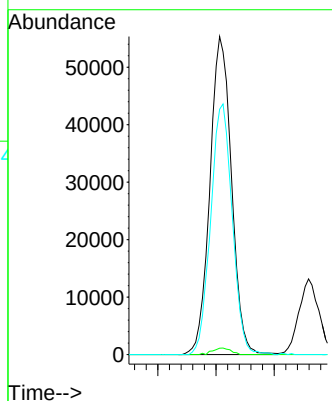
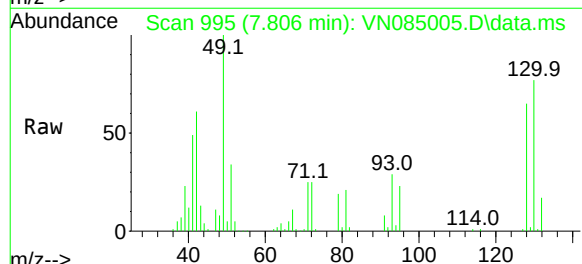
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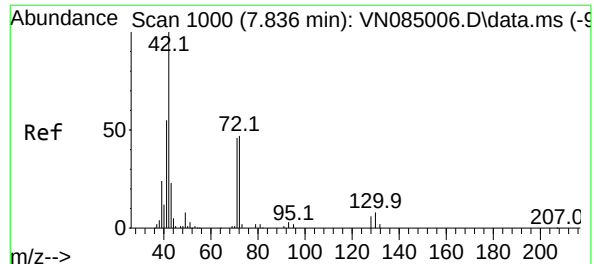
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#28
Bromochloromethane
Concen: 100.575 ug/l
RT: 7.806 min Scan# 995
Delta R.T. -0.000 min
Lab File: VN085005.D
Acq: 22 Nov 2024 11:22

Tgt Ion: 49 Resp: 142811
Ion Ratio Lower Upper
49 100
129 1.7 0.0 4.0
130 78.7 60.6 90.8





#29

Tetrahydrofuran

Concen: 507.558 ug/l

RT: 7.836 min Scan# 1000

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 42 Resp: 373666

Ion Ratio Lower Upper

42 100

72 46.1 37.0 55.4

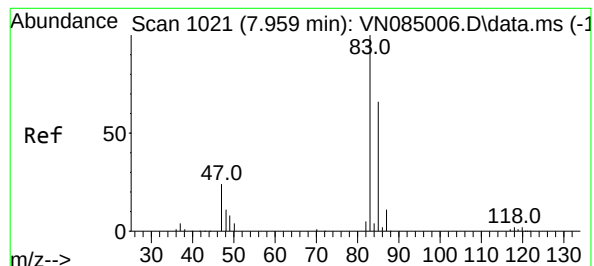
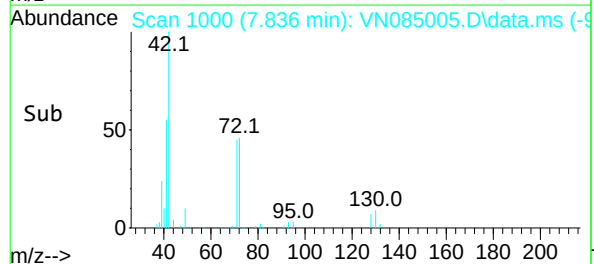
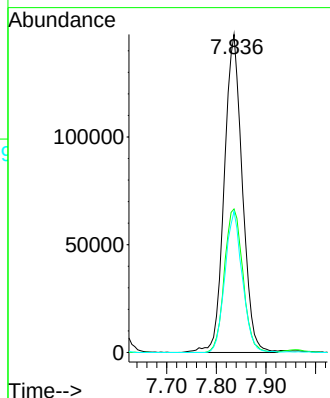
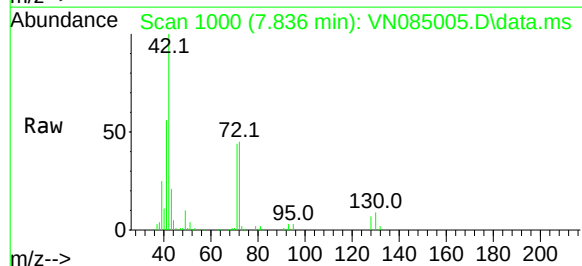
71 42.7 35.0 52.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#30

Chloroform

Concen: 97.513 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. -0.000 min

Lab File: VN085005.D

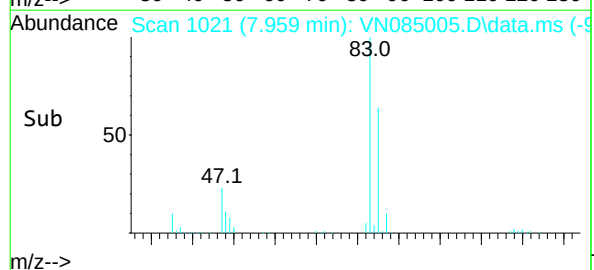
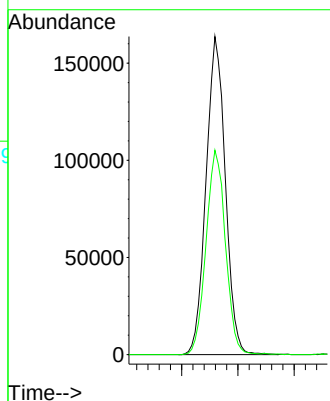
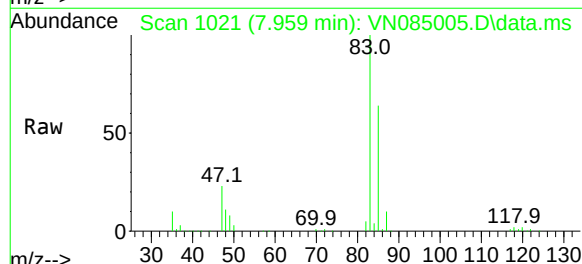
Acq: 22 Nov 2024 11:22

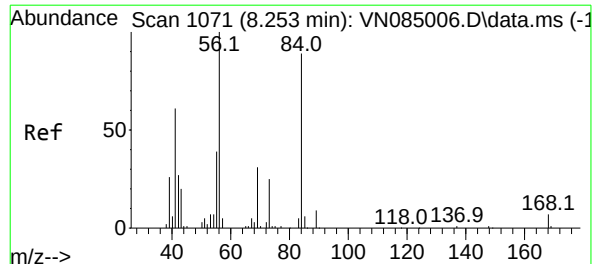
Tgt Ion: 83 Resp: 390189

Ion Ratio Lower Upper

83 100

85 64.3 52.6 78.8





#31

Cyclohexane

Concen: 96.305 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 318957

Ion Ratio Lower Upper

56 100

69 34.1 24.6 36.8

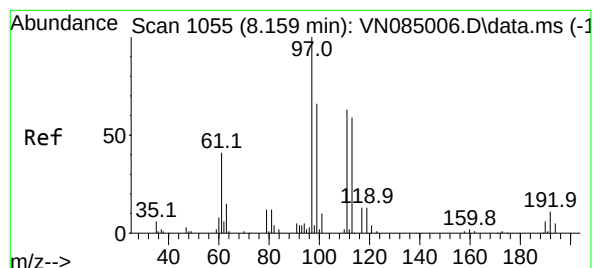
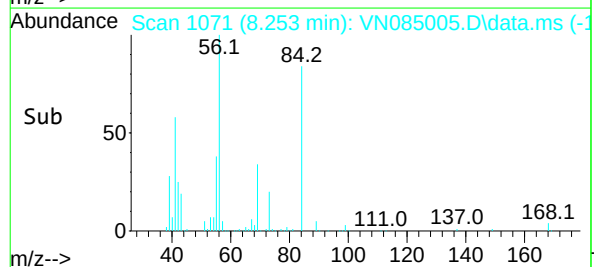
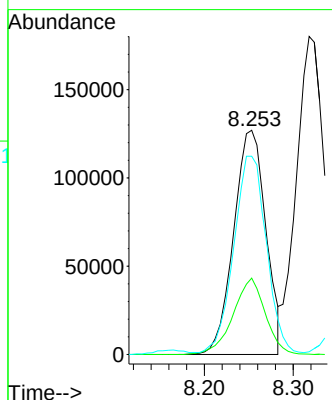
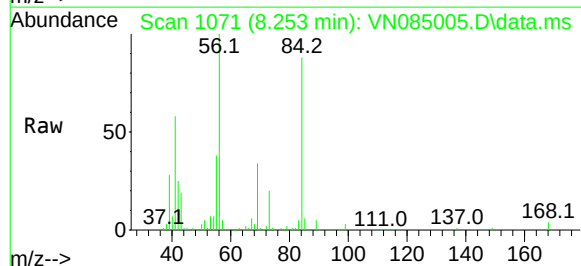
84 86.8 71.4 107.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#32

1,1,1-Trichloroethane

Concen: 101.081 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

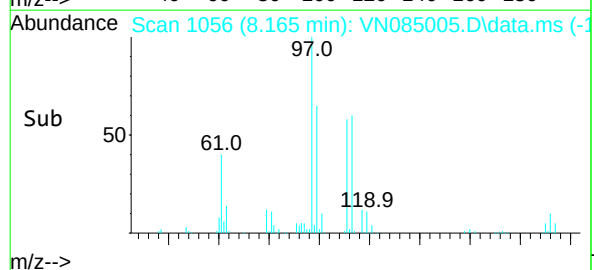
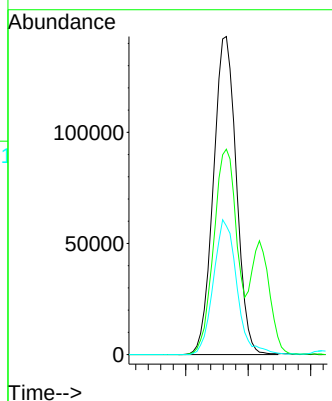
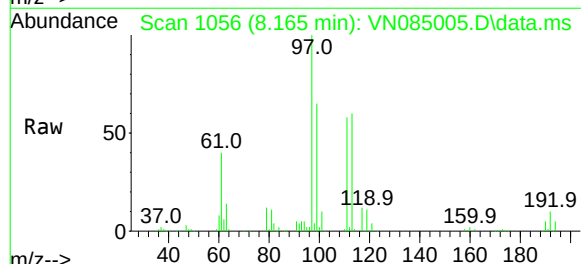
Tgt Ion: 97 Resp: 365495

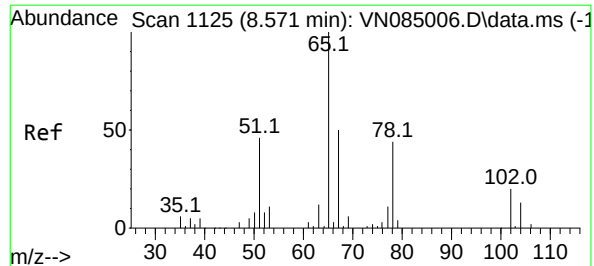
Ion Ratio Lower Upper

97 100

99 65.4 51.0 76.4

61 43.4 36.2 54.2





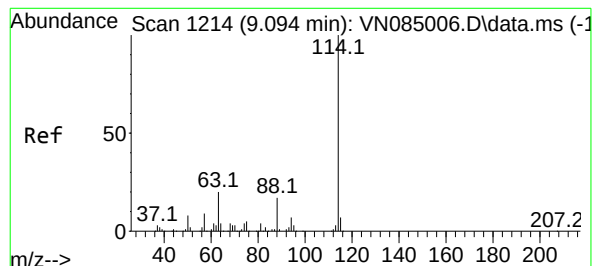
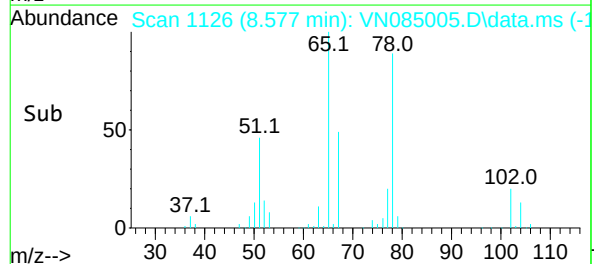
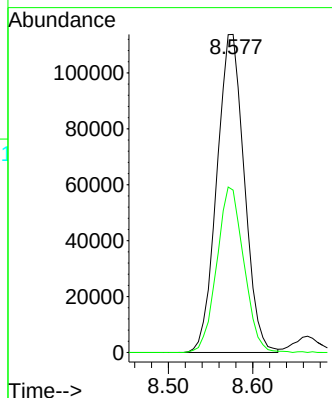
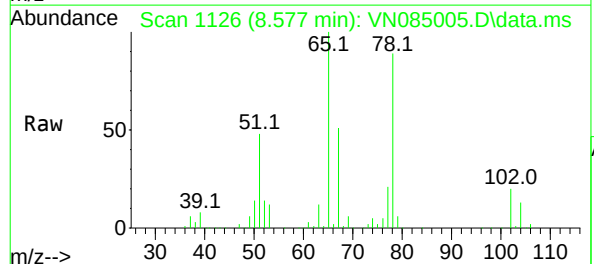
#33
1,2-Dichloroethane-d4
Concen: 103.553 ug/l
RT: 8.577 min Scan# 1125
Delta R.T. 0.006 min
Lab File: VN085005.D
Acq: 22 Nov 2024 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 65 Resp: 257466
Ion Ratio Lower Upper
65 100
67 51.1 0.0 105.0

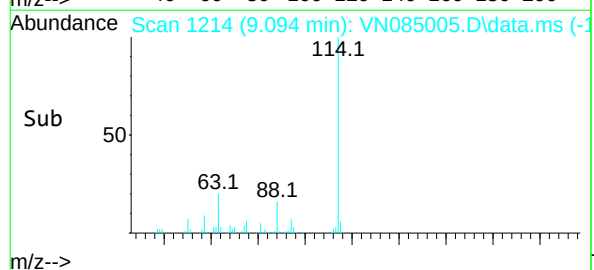
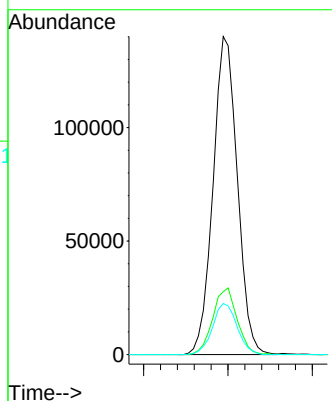
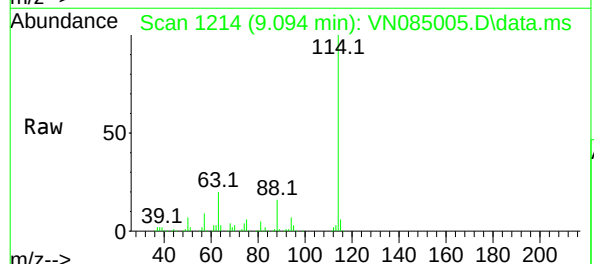
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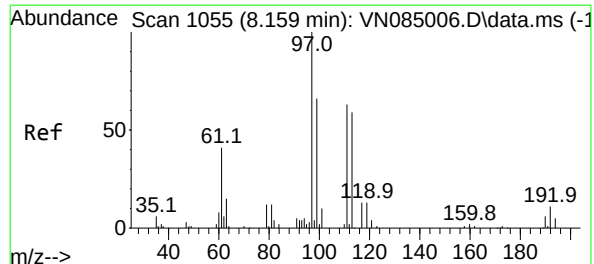
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. -0.000 min
Lab File: VN085005.D
Acq: 22 Nov 2024 11:22

Tgt Ion:114 Resp: 280535
Ion Ratio Lower Upper
114 100
63 19.8 0.0 41.0
88 16.1 0.0 34.8





#35

Dibromofluoromethane

Concen: 107.183 ug/l

RT: 8.165 min Scan# 1055

Delta R.T. 0.006 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:113 Resp: 202772

Ion Ratio Lower Upper

113 100

111 102.3 82.0 123.0

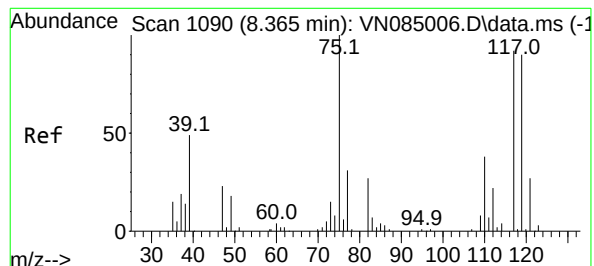
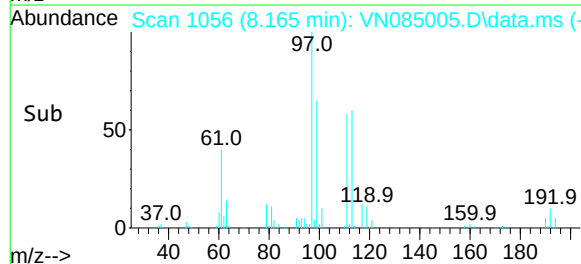
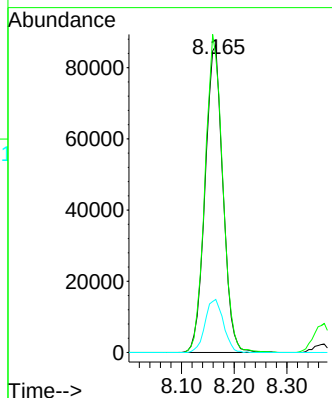
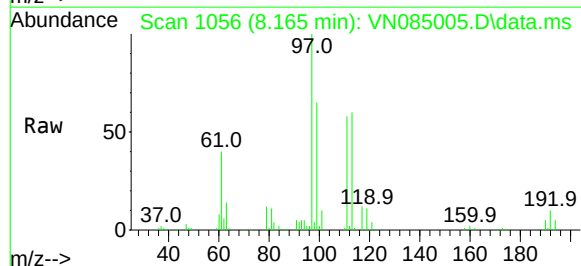
192 17.7 14.8 22.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#36

1,1-Dichloropropene

Concen: 107.966 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

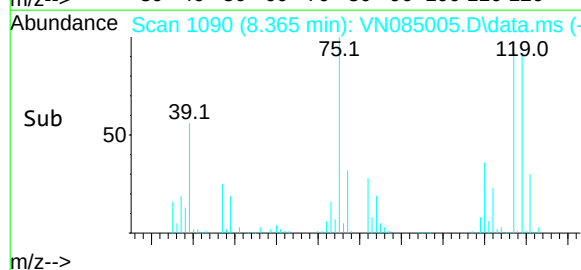
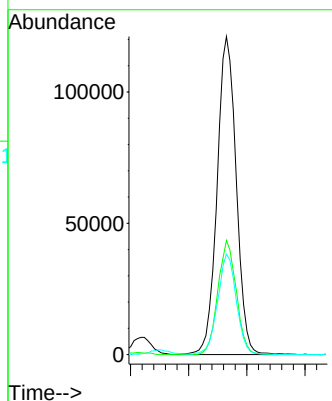
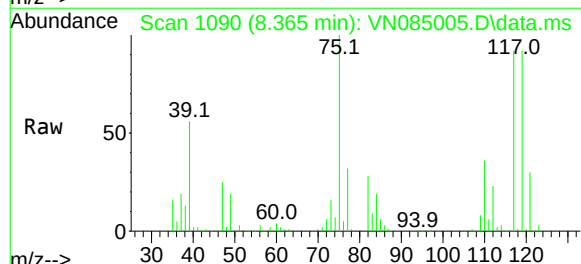
Tgt Ion: 75 Resp: 276659

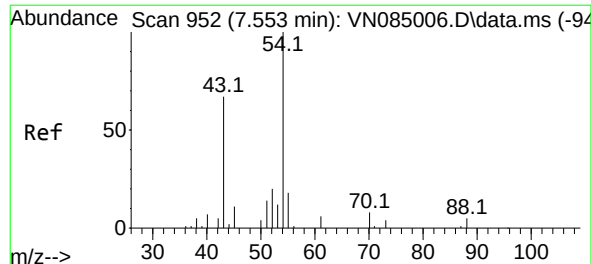
Ion Ratio Lower Upper

75 100

110 34.5 17.2 51.6

77 31.0 24.2 36.4





#37

Ethyl Acetate

Concen: 101.478 ug/l

RT: 7.553 min Scan# 95

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 236399

Ion Ratio Lower Upper

43 100

61 14.8 11.7 17.5

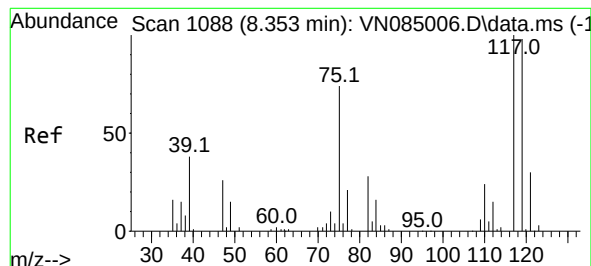
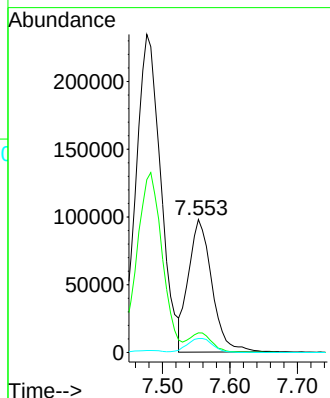
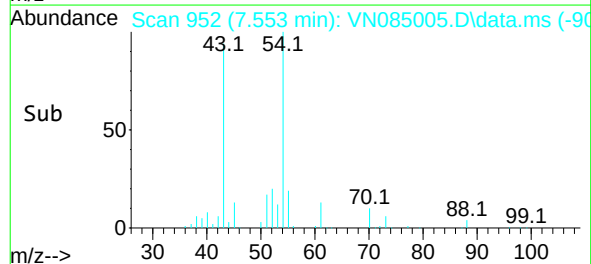
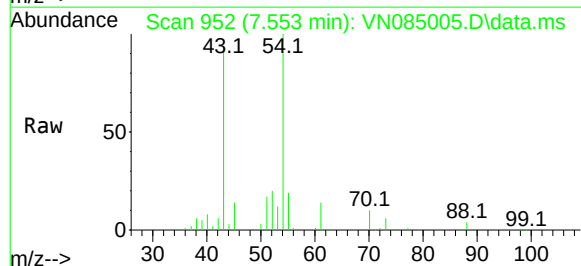
70 11.6 9.3 13.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#38

Carbon Tetrachloride

Concen: 108.554 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.006 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

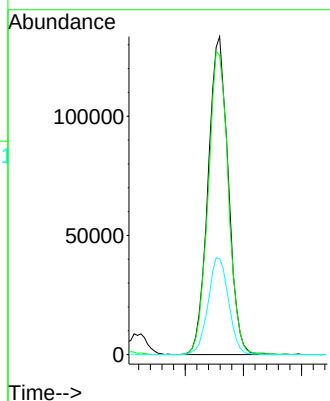
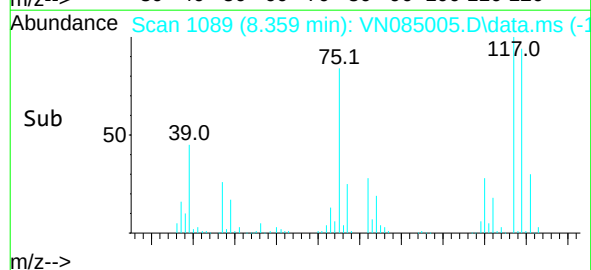
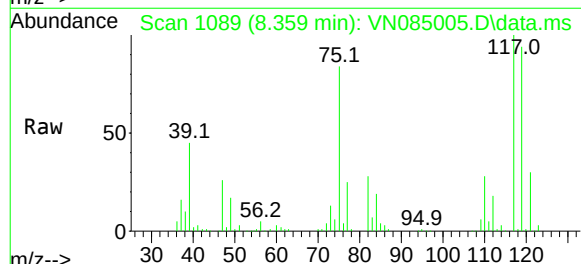
Tgt Ion:117 Resp: 321086

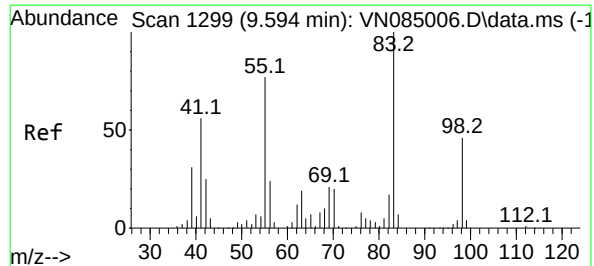
Ion Ratio Lower Upper

117 100

119 94.1 78.6 117.8

121 30.1 24.2 36.2





#39

Methylcyclohexane

Concen: 120.983 ug/l

RT: 9.594 min Scan# 1299

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 83 Resp: 322151

Ion Ratio Lower Upper

83 100

55 73.8 61.8 92.6

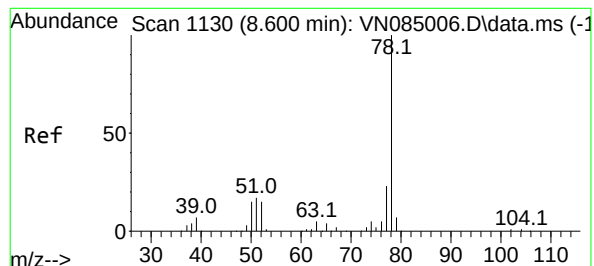
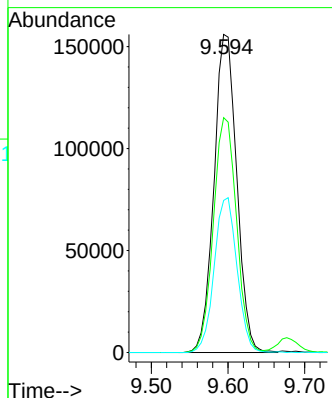
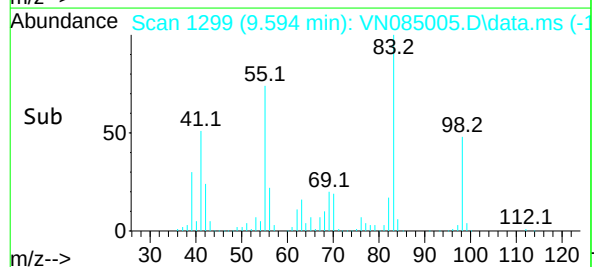
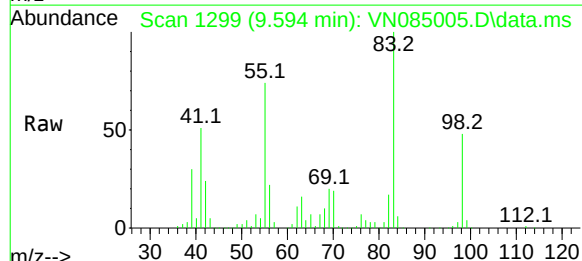
98 47.8 37.0 55.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#40

Benzene

Concen: 105.783 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN085005.D

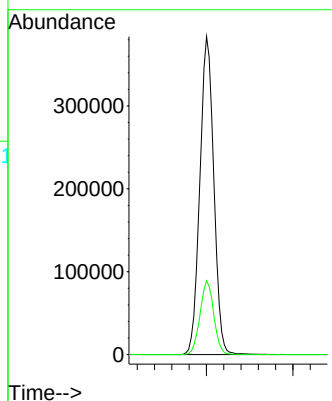
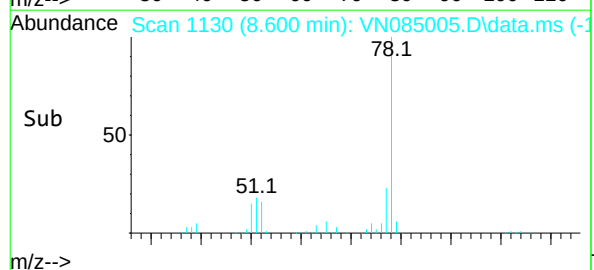
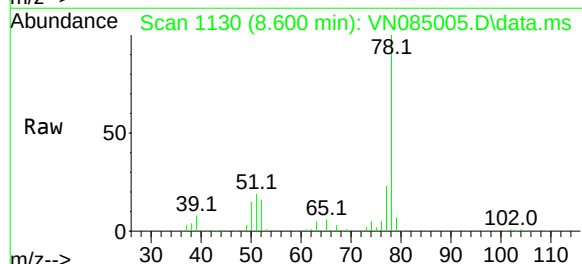
Acq: 22 Nov 2024 11:22

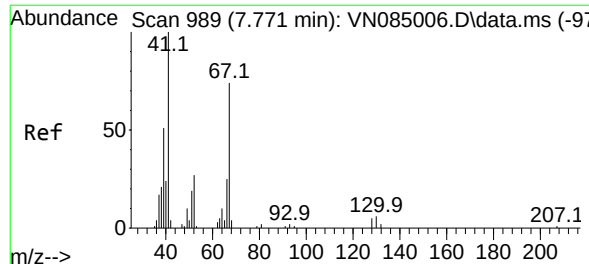
Tgt Ion: 78 Resp: 857333

Ion Ratio Lower Upper

78 100

77 23.2 18.5 27.7





#41

Methacrylonitrile

Concen: 107.026 ug/l

RT: 7.777 min Scan# 99

Delta R.T. 0.006 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 41 Resp: 138044

Ion Ratio Lower Upper

41 100

39 52.8 42.6 63.8

67 73.5 59.9 89.9

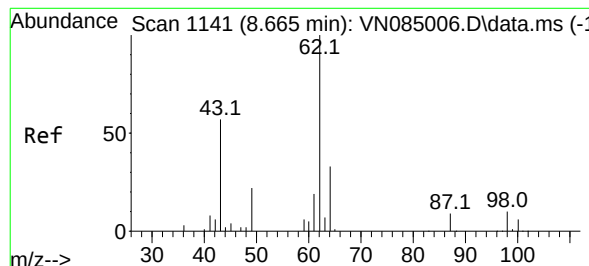
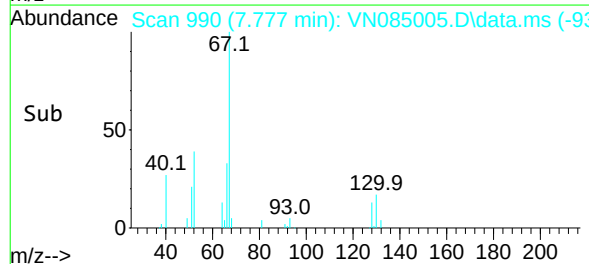
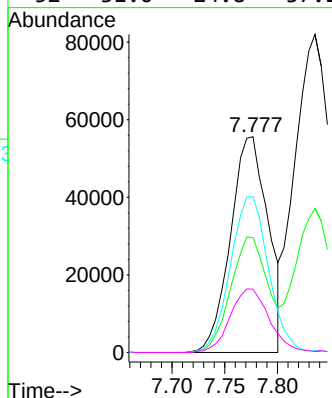
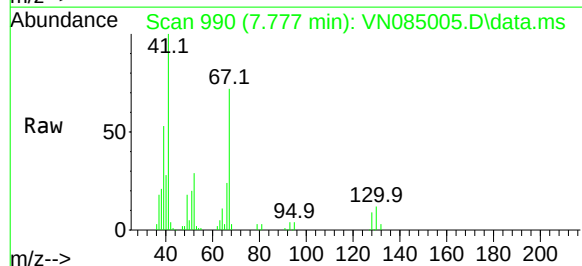
52 31.0 24.8 37.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#42

1,2-Dichloroethane

Concen: 103.986 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.000 min

Lab File: VN085005.D

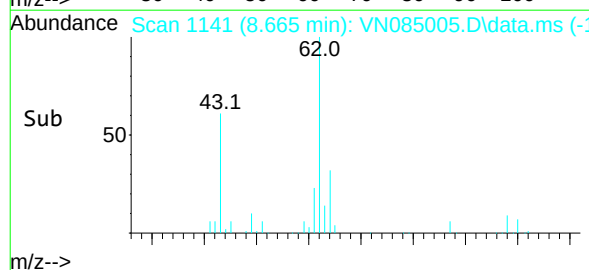
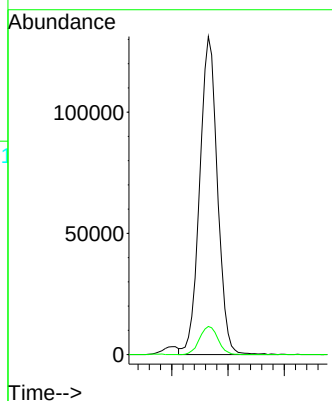
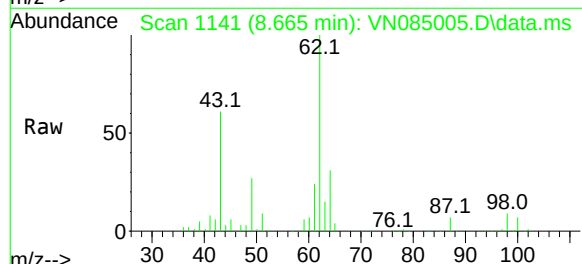
Acq: 22 Nov 2024 11:22

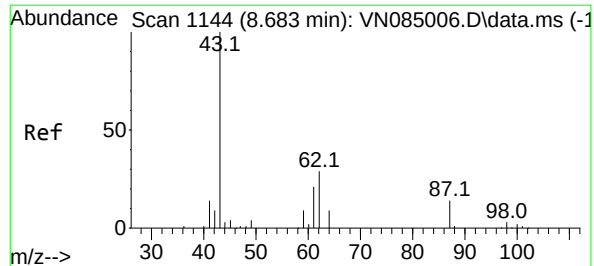
Tgt Ion: 62 Resp: 288320

Ion Ratio Lower Upper

62 100

98 9.2 0.0 18.2





#43

Isopropyl Acetate

Concen: 97.891 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

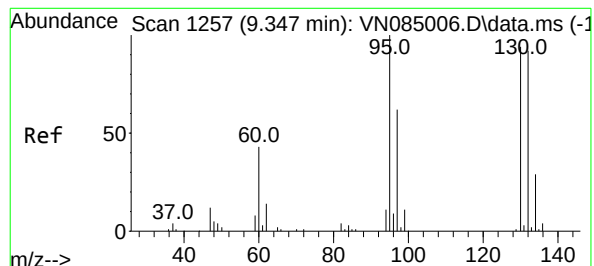
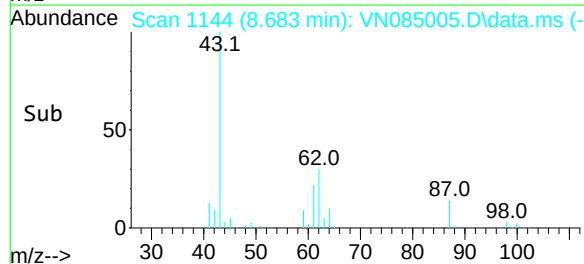
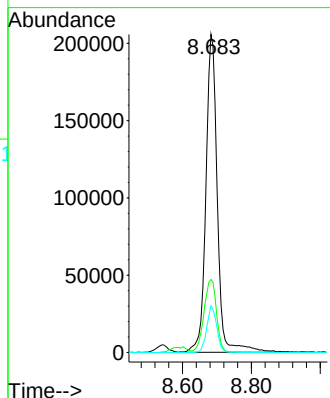
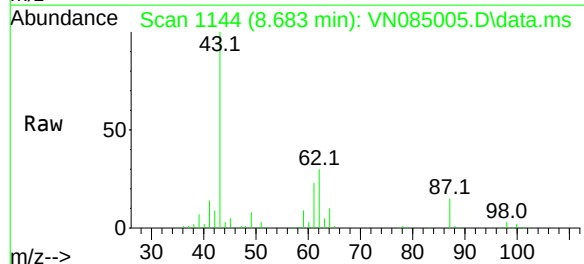
ClientSampleId :

VSTDICC100

Tgt Ion:	43	Resp:	473683
Ion	Ratio	Lower	Upper
43	100		
61	24.9	20.6	30.8
87	12.7	11.0	16.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#44

Trichloroethene

Concen: 104.851 ug/l

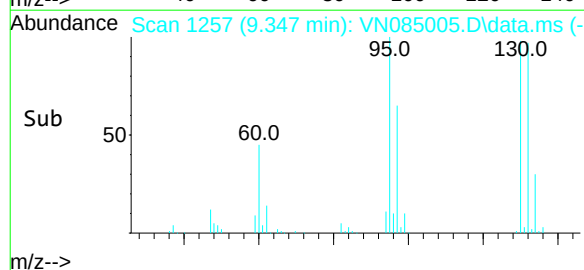
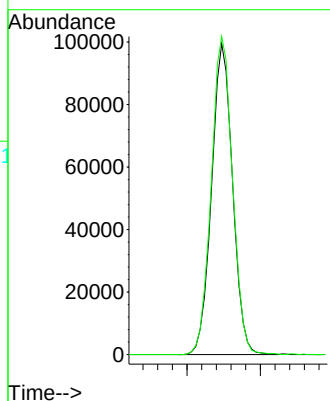
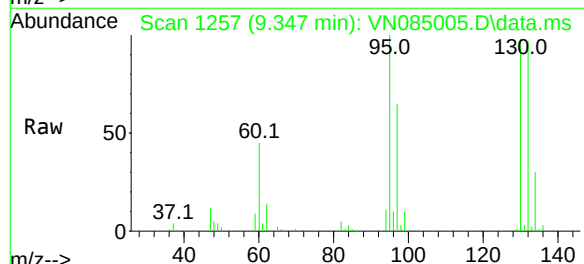
RT: 9.347 min Scan# 1257

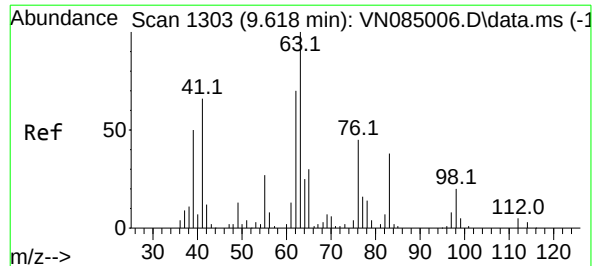
Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Tgt Ion:	130	Resp:	197483
Ion	Ratio	Lower	Upper
130	100		
95	102.3	0.0	213.4





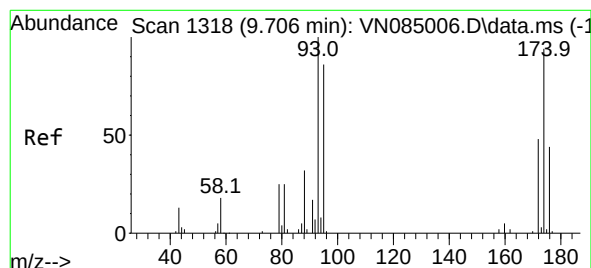
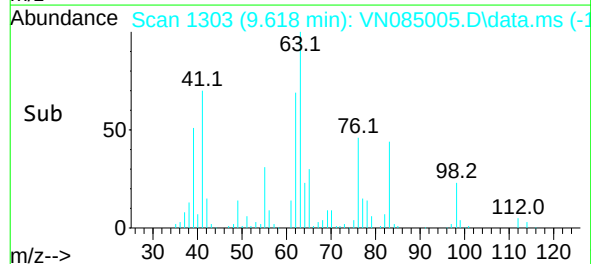
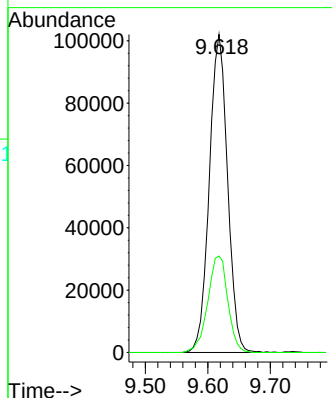
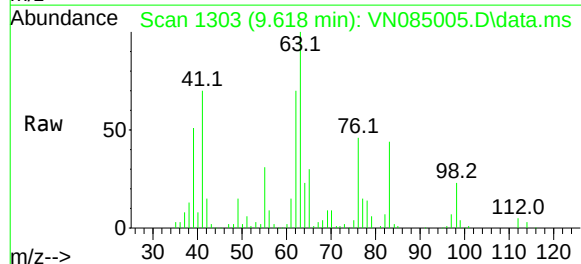
#45
1,2-Dichloropropane
Concen: 103.586 ug/l
RT: 9.618 min Scan# 1303
Delta R.T. -0.000 min
Lab File: VN085005.D
Acq: 22 Nov 2024 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 63 Resp: 206776
Ion Ratio Lower Upper
63 100
65 30.3 24.0 36.0

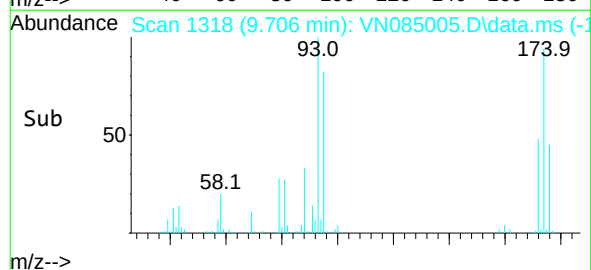
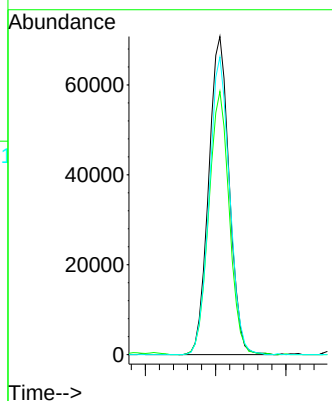
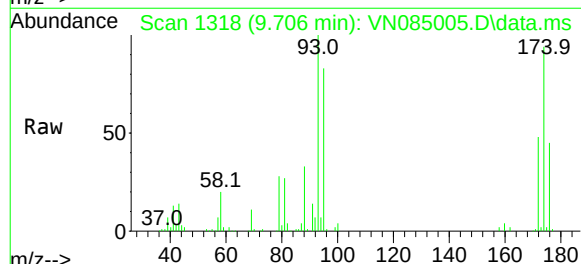
Manual Integrations
APPROVED

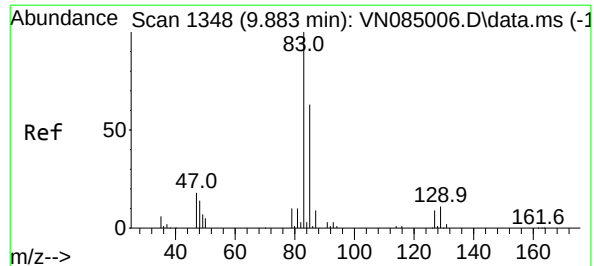
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#46
Dibromomethane
Concen: 103.900 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.000 min
Lab File: VN085005.D
Acq: 22 Nov 2024 11:22

Tgt Ion: 93 Resp: 144116
Ion Ratio Lower Upper
93 100
95 82.3 66.2 99.4
174 92.8 74.9 112.3





#47

Bromodichloromethane

Concen: 105.641 ug/l

RT: 9.883 min Scan# 1348

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 83 Resp: 310562

Ion Ratio Lower Upper

83 100

85 64.6 50.5 75.7

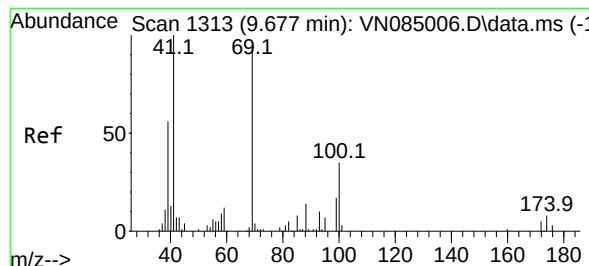
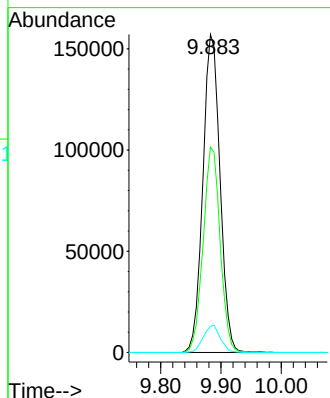
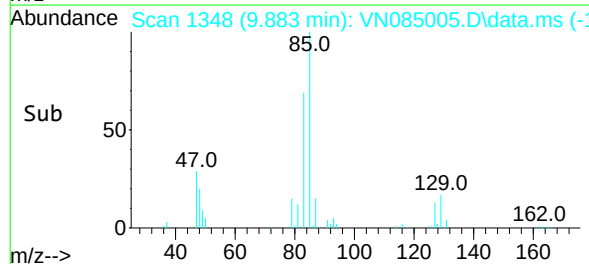
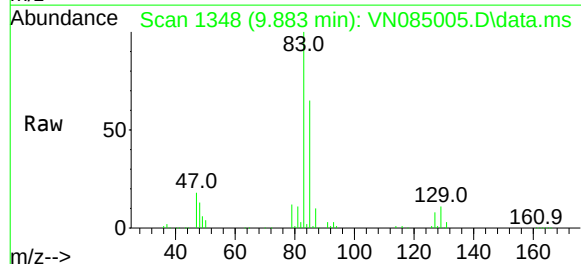
127 8.2 7.1 10.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#48

Methyl methacrylate

Concen: 109.847 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

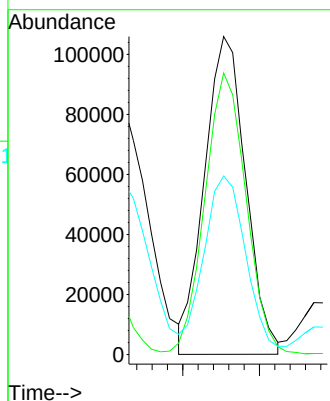
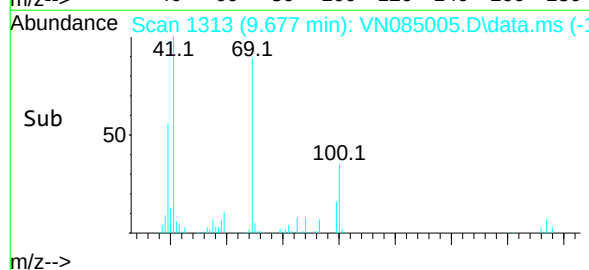
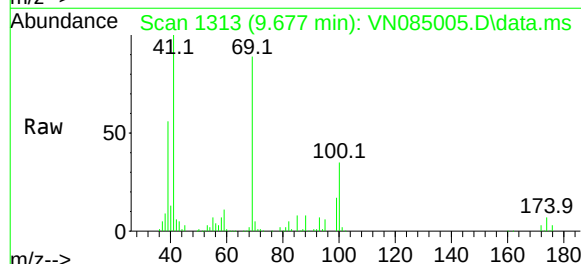
Tgt Ion: 41 Resp: 197798

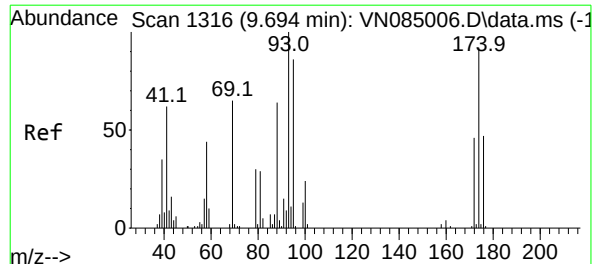
Ion Ratio Lower Upper

41 100

69 88.0 73.2 109.8

39 58.1 46.2 69.4





#49

1,4-Dioxane

Concen: 1959.471 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 88 Resp: 61188

Ion Ratio Lower Upper

88 100

43 0.0 16.7 25.1

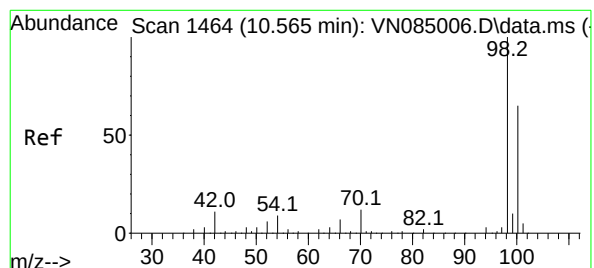
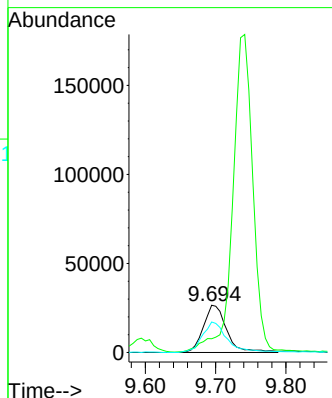
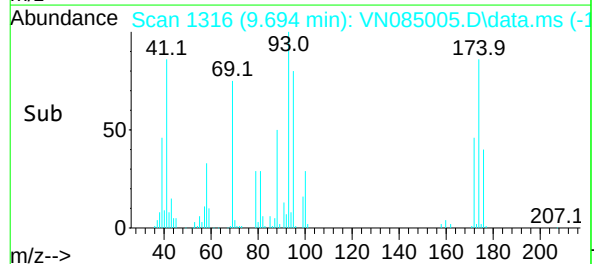
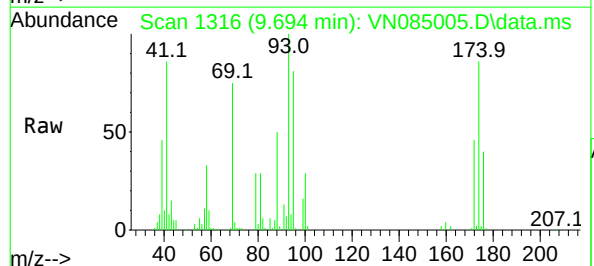
58 69.8 56.5 84.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#50

Toluene-d8

Concen: 109.694 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085005.D

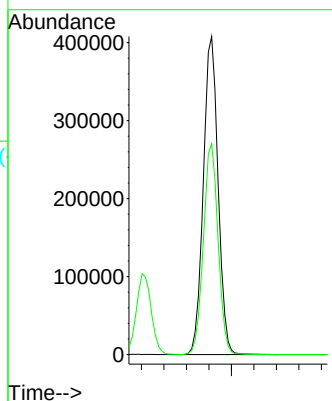
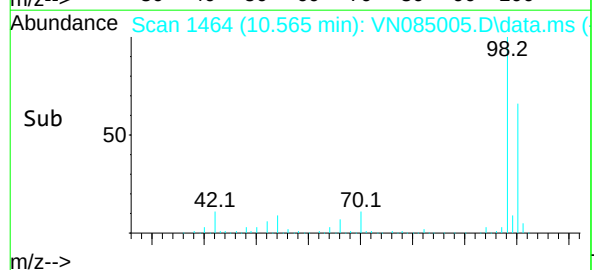
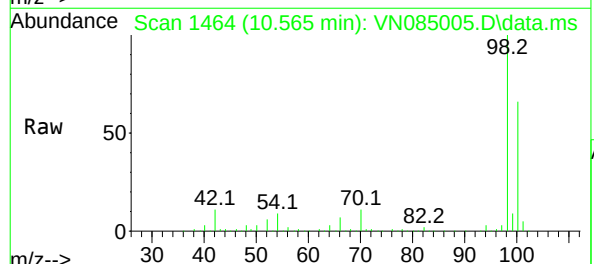
Acq: 22 Nov 2024 11:22

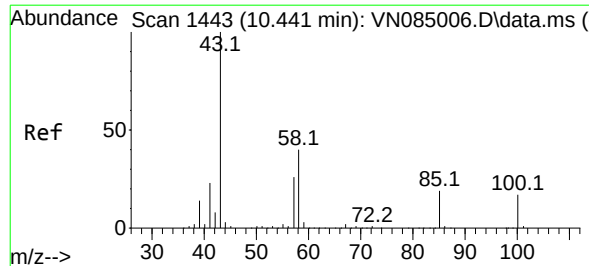
Tgt Ion: 98 Resp: 743711

Ion Ratio Lower Upper

98 100

100 66.0 52.5 78.7





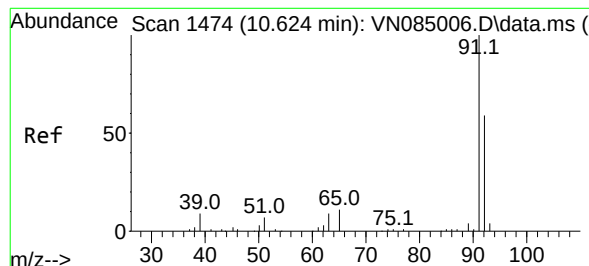
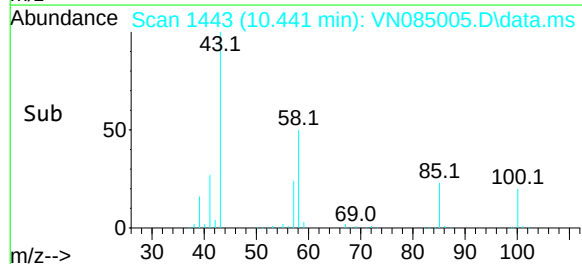
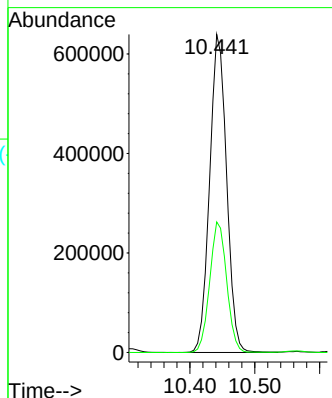
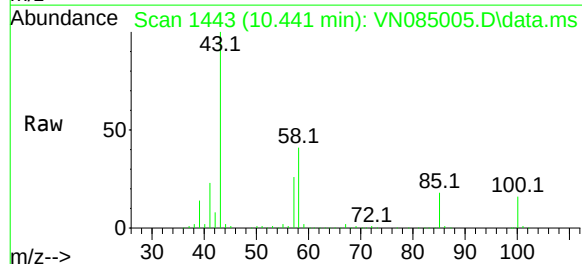
#51
4-Methyl-2-Pentanone
Concen: 525.783 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085005.D
Acq: 22 Nov 2024 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1162080
Ion Ratio Lower Upper
43 100
58 41.0 32.1 48.1

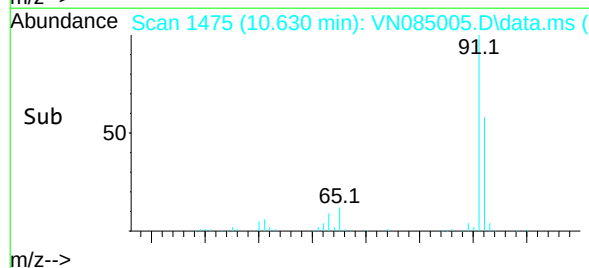
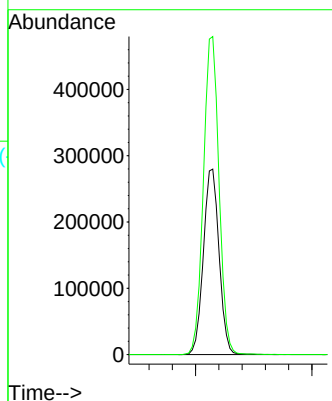
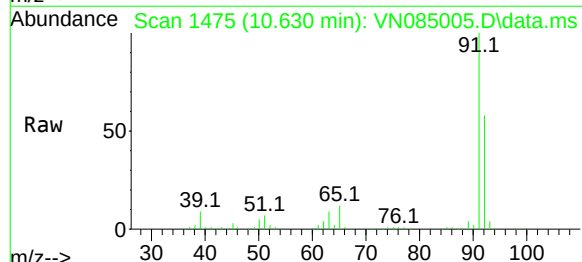
Manual Integrations
APPROVED

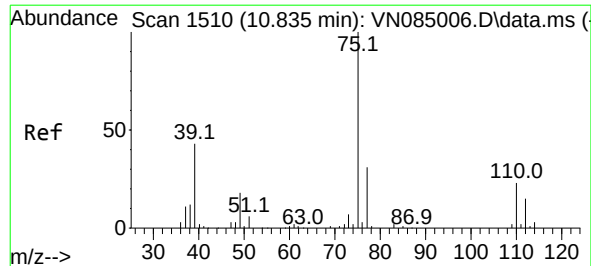
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#52
Toluene
Concen: 109.001 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN085005.D
Acq: 22 Nov 2024 11:22

Tgt Ion: 92 Resp: 522980
Ion Ratio Lower Upper
92 100
91 170.8 136.7 205.1





#53

t-1,3-Dichloropropene

Concen: 109.180 ug/l

RT: 10.830 min Scan# 1510

Delta R.T. -0.006 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 75 Resp: 321796

Ion Ratio Lower Upper

75 100

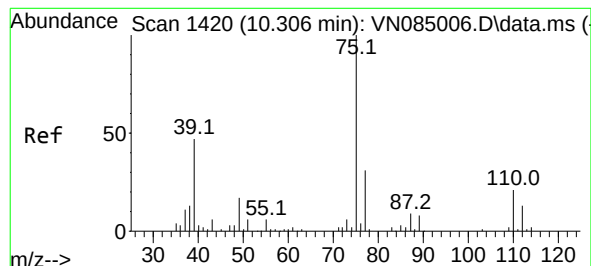
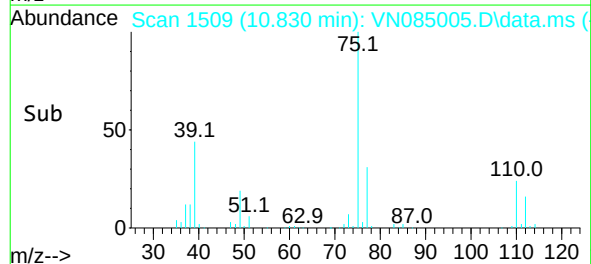
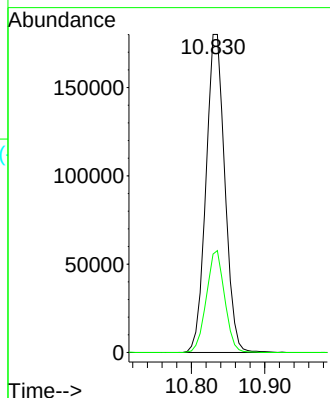
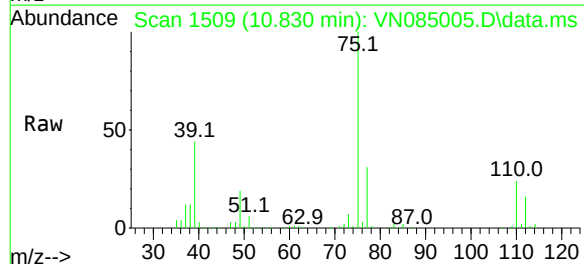
77 30.9 25.0 37.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#54

cis-1,3-Dichloropropene

Concen: 110.678 ug/l

RT: 10.306 min Scan# 1420

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

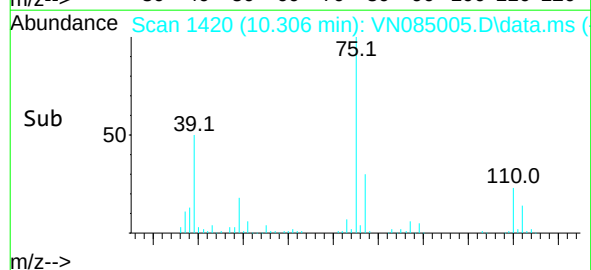
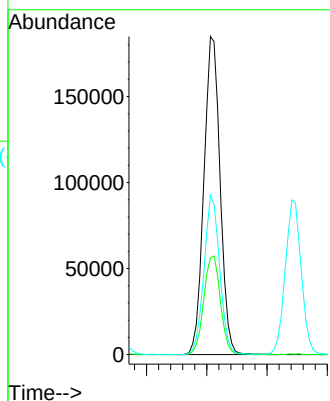
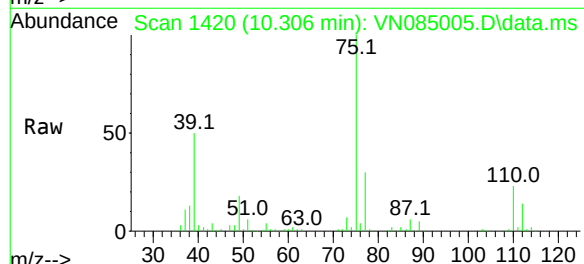
Tgt Ion: 75 Resp: 346064

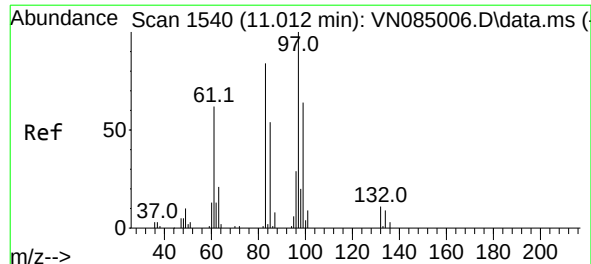
Ion Ratio Lower Upper

75 100

77 30.4 25.0 37.4

39 50.1 37.6 56.4





#55

1,1,2-Trichloroethane

Concen: 105.602 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

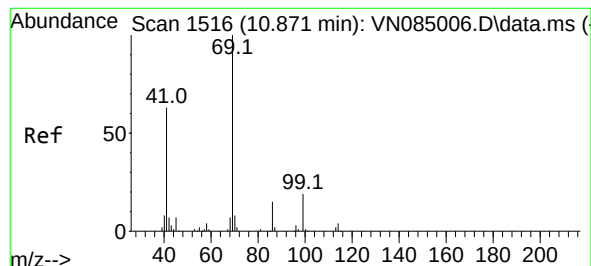
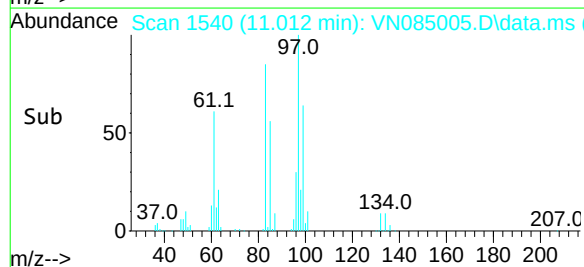
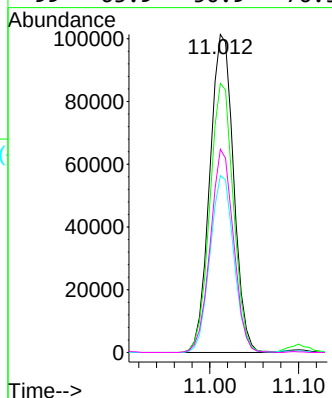
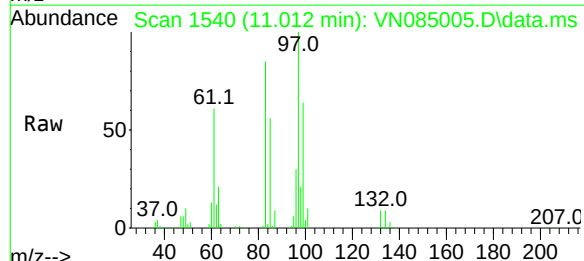
ClientSampleId :

VSTDICC100

Tgt Ion:	97	Resp:	188724
Ion	Ratio	Lower	Upper
97	100		
83	84.6	67.4	101.2
85	55.6	43.1	64.7
99	63.9	50.9	76.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#56

Ethyl methacrylate

Concen: 117.883 ug/l

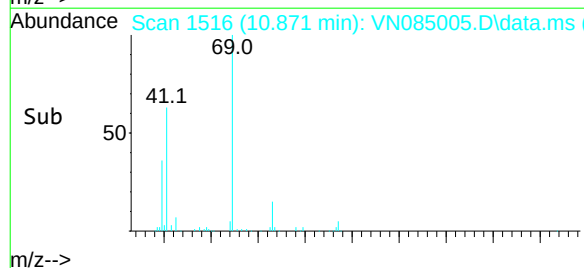
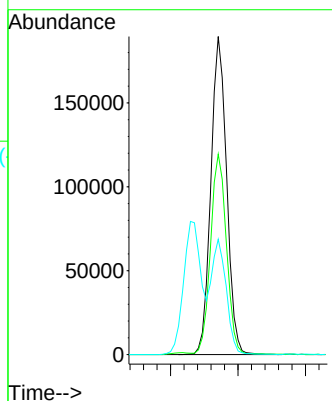
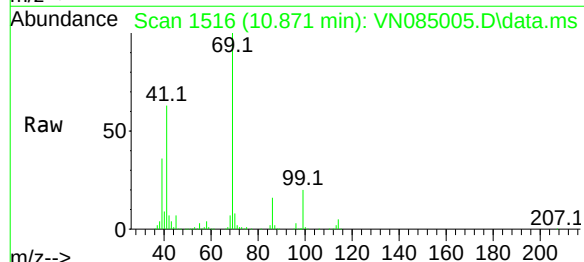
RT: 10.871 min Scan# 1516

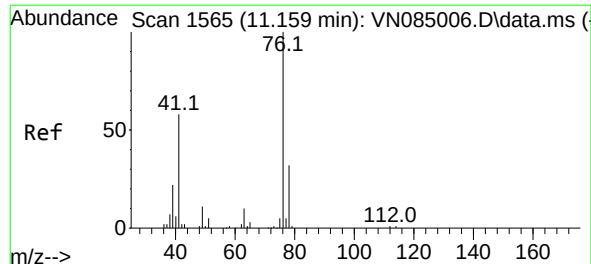
Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Tgt Ion:	69	Resp:	307844
Ion	Ratio	Lower	Upper
69	100		
41	63.9	50.0	75.0
39	34.3	27.0	40.6





#57

1,3-Dichloropropane

Concen: 104.887 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 76 Resp: 329902

Ion Ratio Lower Upper

76 100

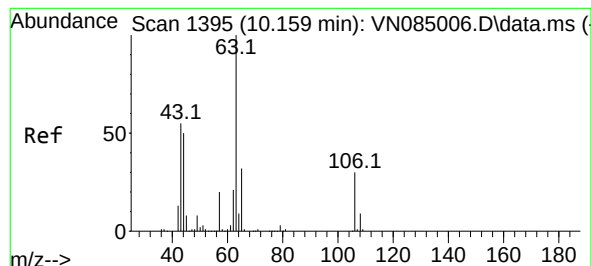
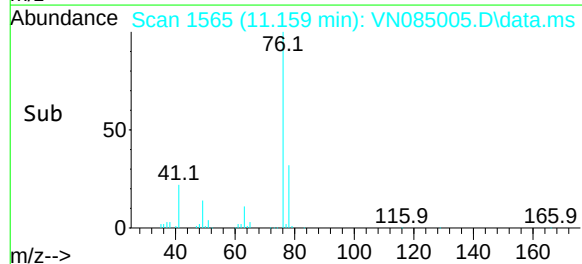
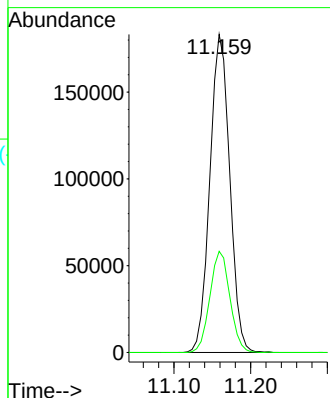
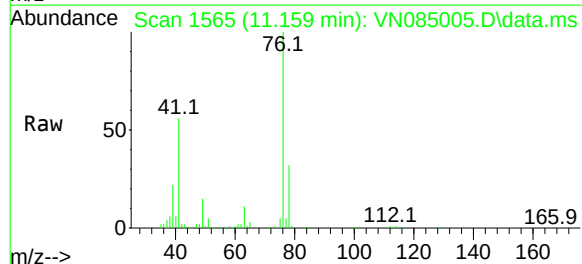
78 32.0 26.1 39.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#58

2-Chloroethyl Vinyl ether

Concen: 602.530 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN085005.D

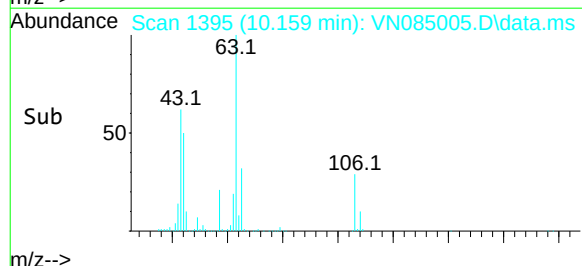
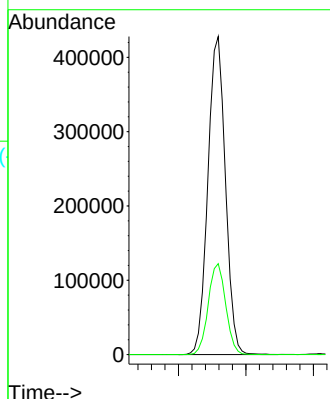
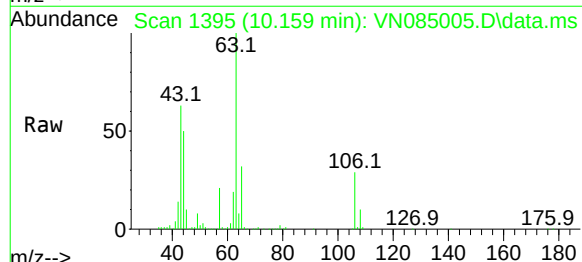
Acq: 22 Nov 2024 11:22

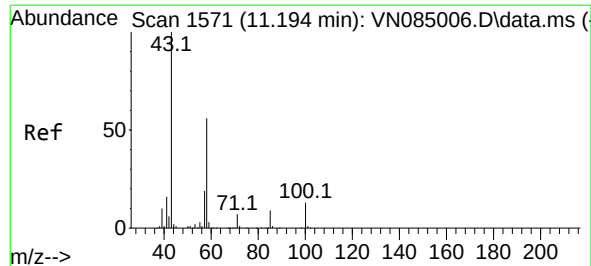
Tgt Ion: 63 Resp: 771827

Ion Ratio Lower Upper

63 100

106 28.4 23.0 34.6





#59

2-Hexanone

Concen: 535.314 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 884879

Ion Ratio Lower Upper

43 100

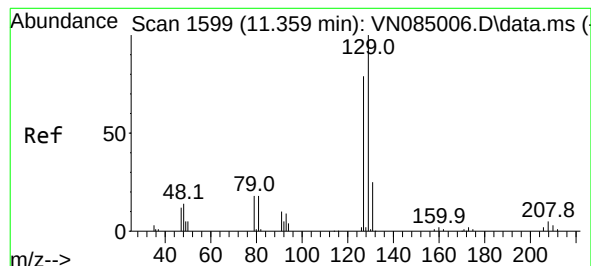
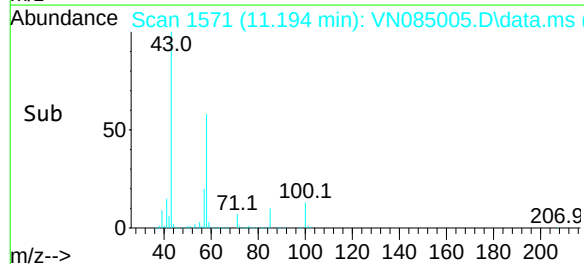
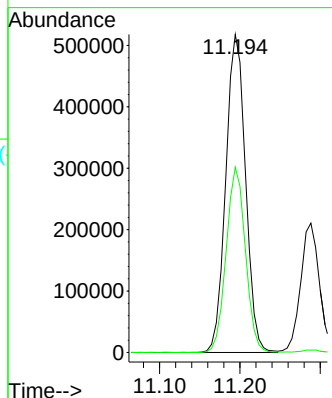
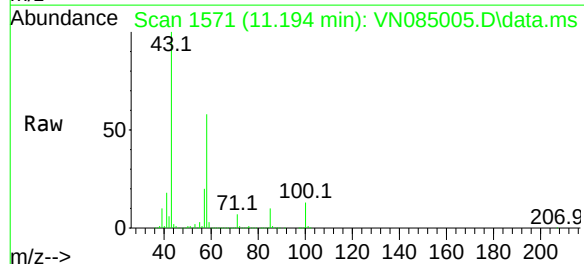
58 56.7 28.3 85.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#60

Dibromochloromethane

Concen: 105.249 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. -0.000 min

Lab File: VN085005.D

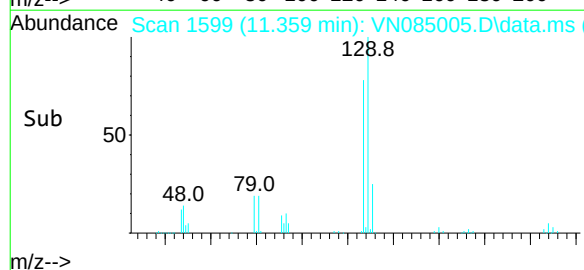
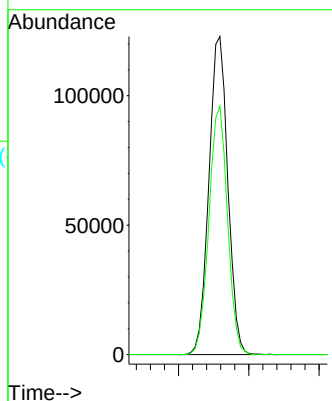
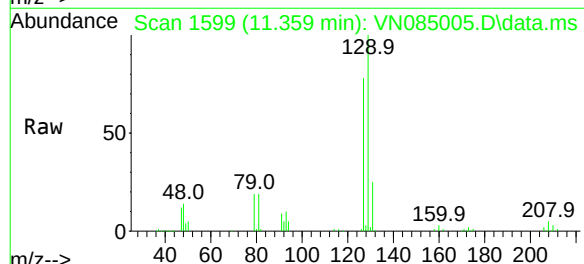
Acq: 22 Nov 2024 11:22

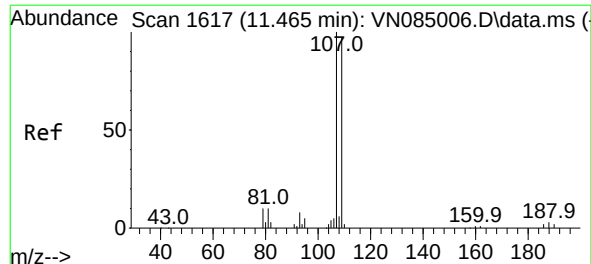
Tgt Ion:129 Resp: 229875

Ion Ratio Lower Upper

129 100

127 76.6 39.2 117.6





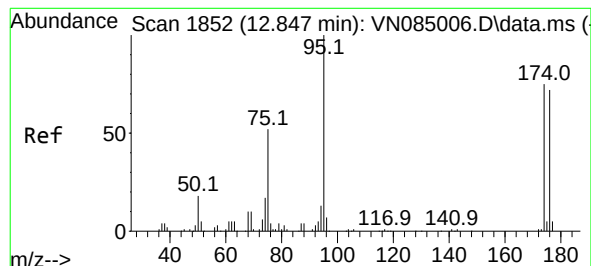
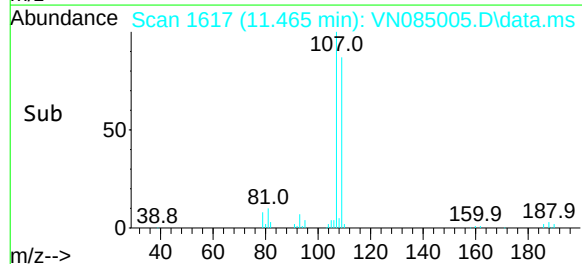
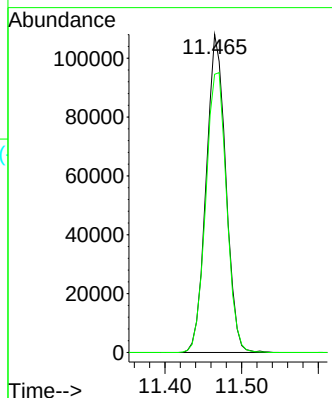
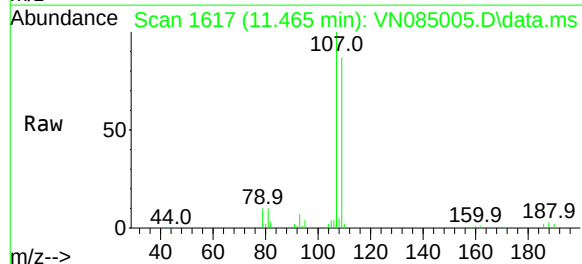
#61
1,2-Dibromoethane
Concen: 103.624 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085005.D
Acq: 22 Nov 2024 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 107 Resp: 191654
Ion Ratio Lower Upper
107 100
109 93.6 76.1 114.1

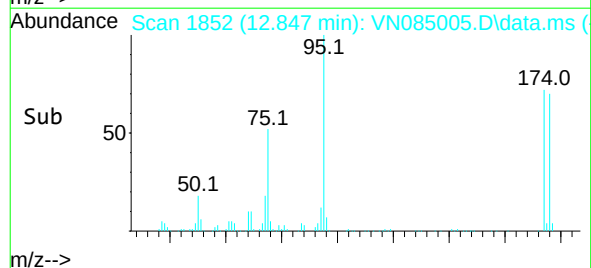
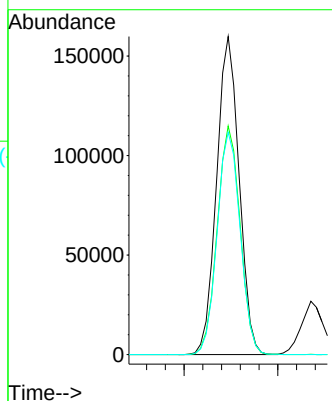
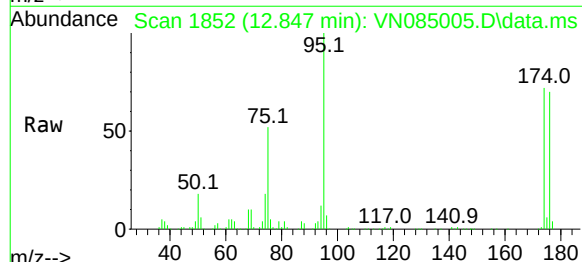
Manual Integrations
APPROVED

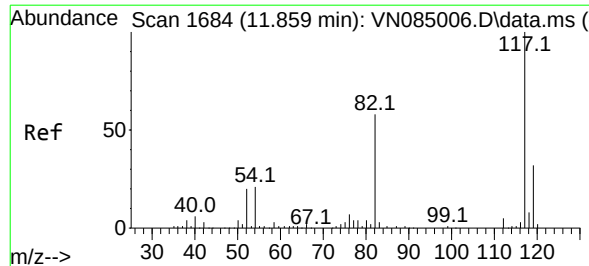
Reviewed By : John Carlone 11/25/2024
Supervised By : Mahesh Dadoda 11/25/2024



#62
4-Bromofluorobenzene
Concen: 105.236 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085005.D
Acq: 22 Nov 2024 11:22

Tgt Ion: 95 Resp: 266822
Ion Ratio Lower Upper
95 100
174 72.9 0.0 146.6
176 71.2 0.0 141.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1684

Delta R.T. 0.006 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:117 Resp: 240979

Ion Ratio Lower Upper

117 100

82 57.3 46.0 69.0

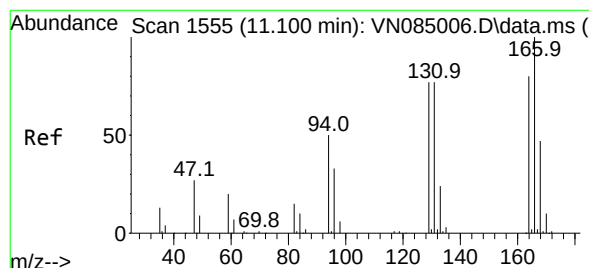
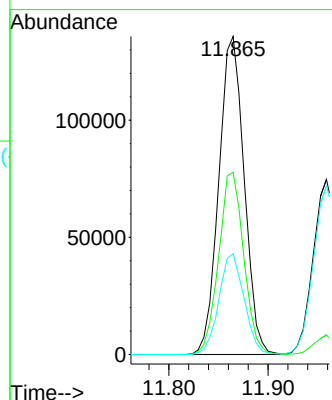
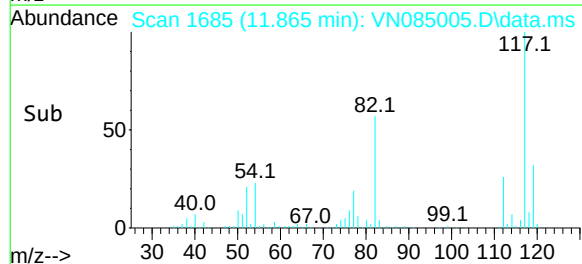
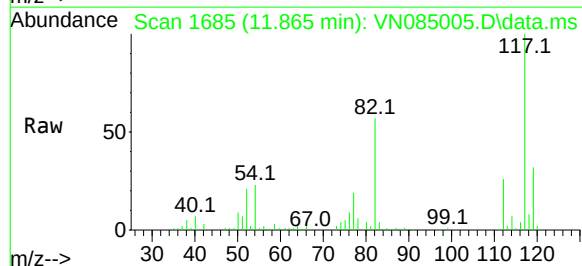
119 31.7 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#64

Tetrachloroethene

Concen: 104.032 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Tgt Ion:164 Resp: 168926

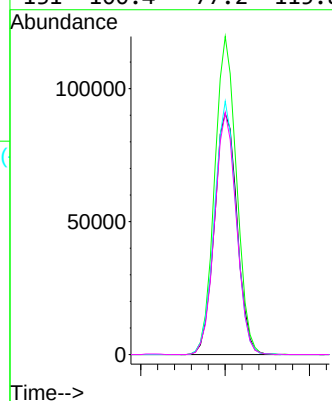
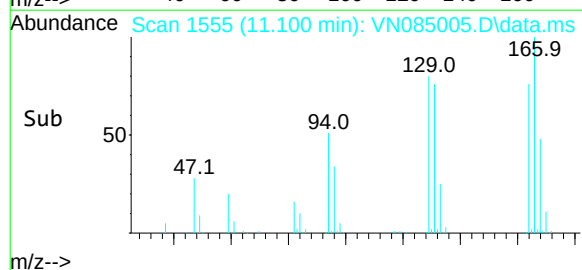
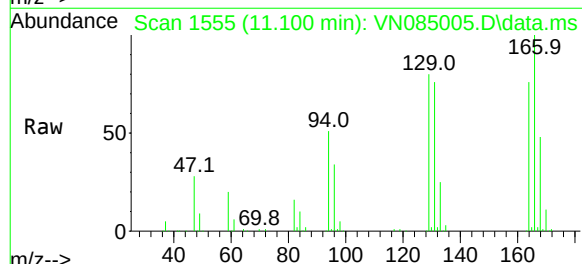
Ion Ratio Lower Upper

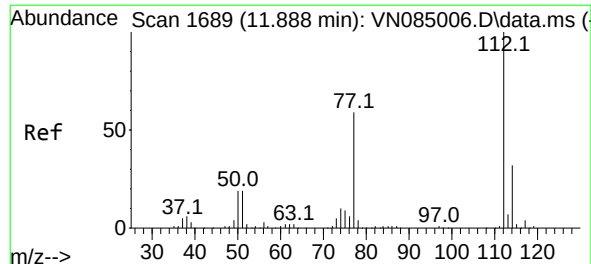
164 100

166 131.9 100.6 151.0

129 105.1 77.7 116.5

131 100.4 77.2 115.8





#65

Chlorobenzene

Concen: 99.452 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:112 Resp: 543518

Ion Ratio Lower Upper

112 100

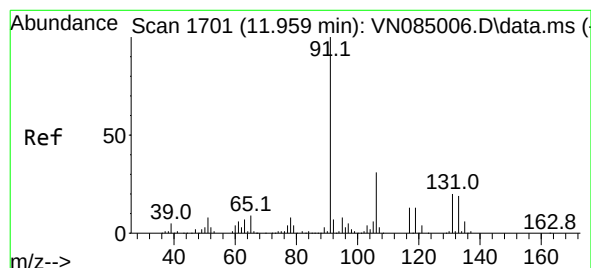
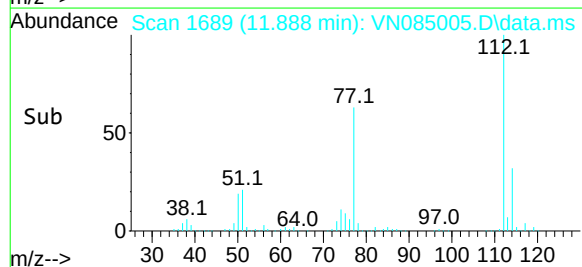
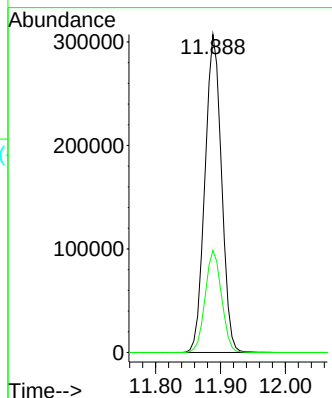
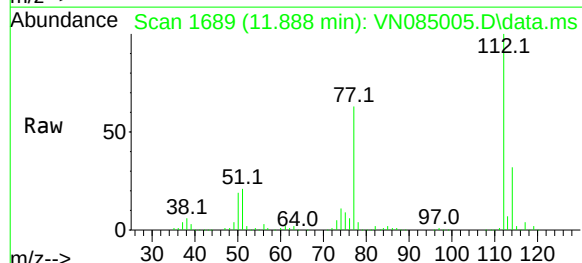
114 32.1 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#66

1,1,1,2-Tetrachloroethane

Concen: 104.459 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

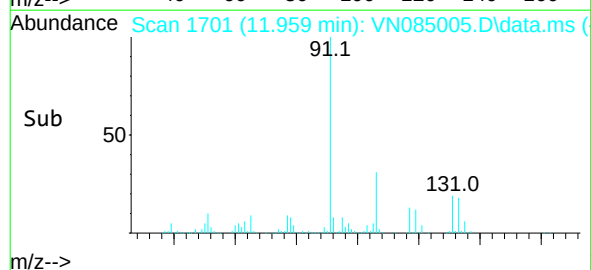
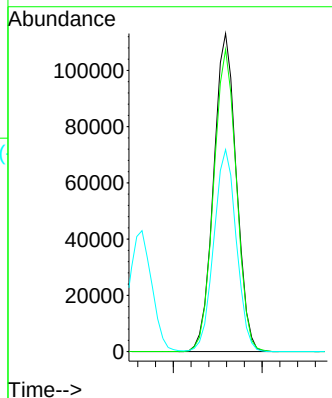
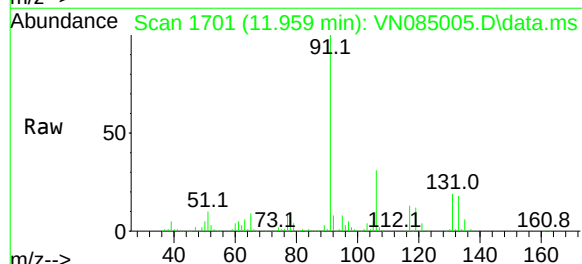
Tgt Ion:131 Resp: 201000

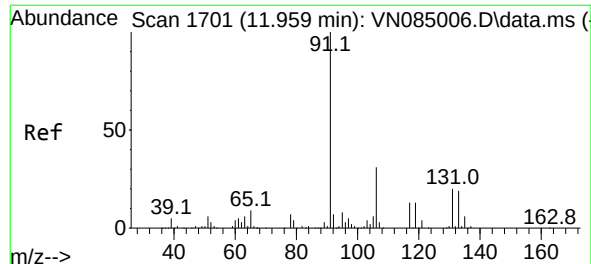
Ion Ratio Lower Upper

131 100

133 95.1 47.8 143.4

119 63.0 32.1 96.3





#67

Ethyl Benzene

Concen: 112.113 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 994049

Ion Ratio Lower Upper

91 100

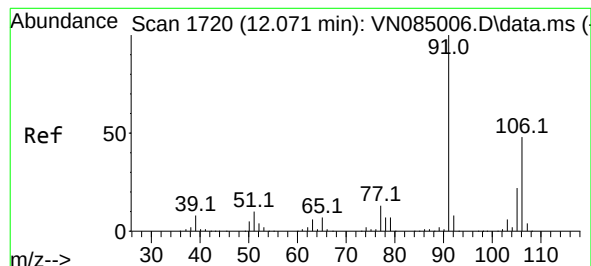
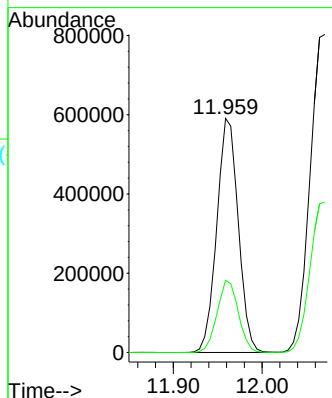
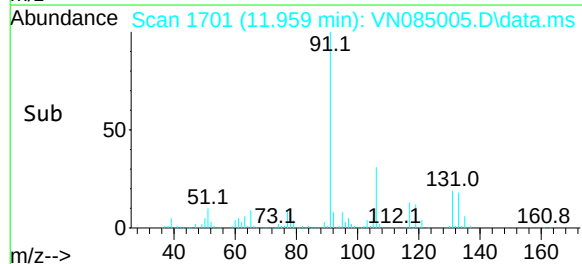
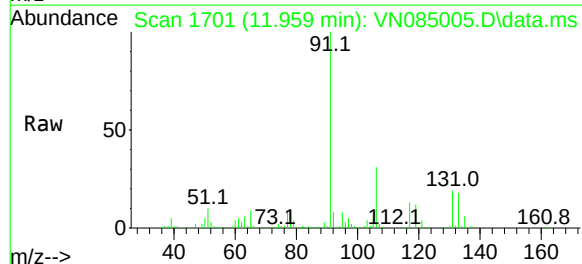
106 30.8 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#68

m/p-Xylenes

Concen: 222.116 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN085005.D

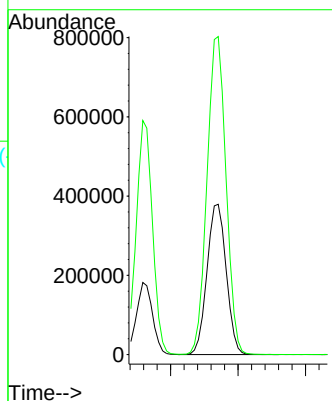
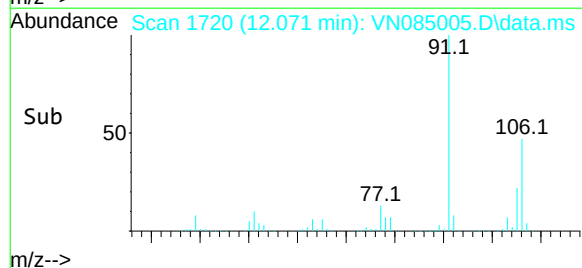
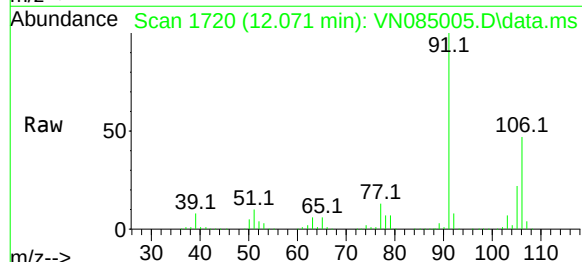
Acq: 22 Nov 2024 11:22

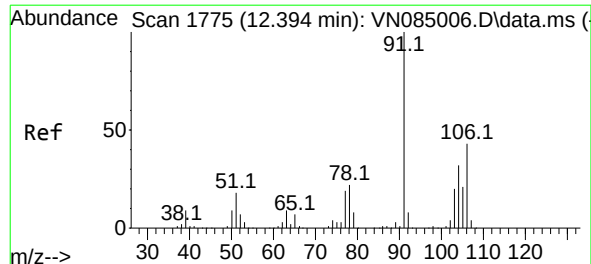
Tgt Ion:106 Resp: 749782

Ion Ratio Lower Upper

106 100

91 209.5 168.0 252.0





#69

o-Xylene

Concen: 110.070 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:106 Resp: 353441

Ion Ratio Lower Upper

106 100

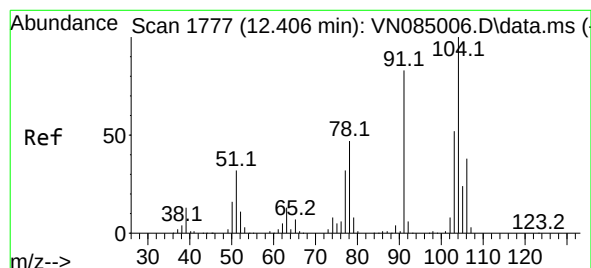
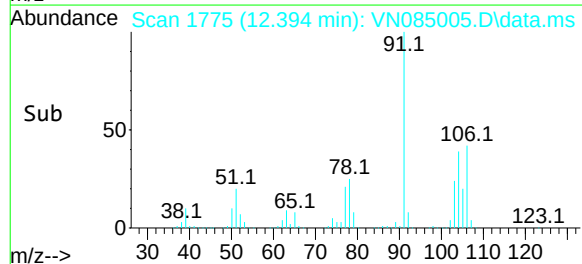
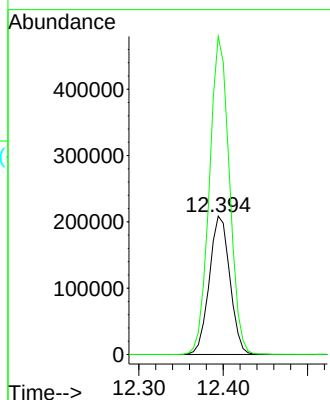
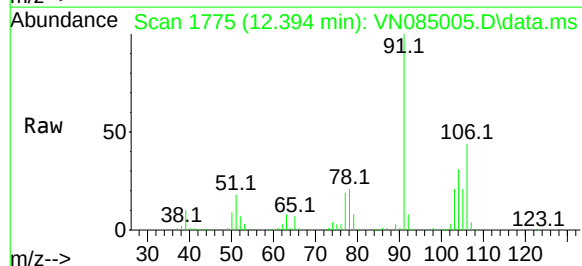
91 223.7 110.7 331.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#70

Styrene

Concen: 112.600 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

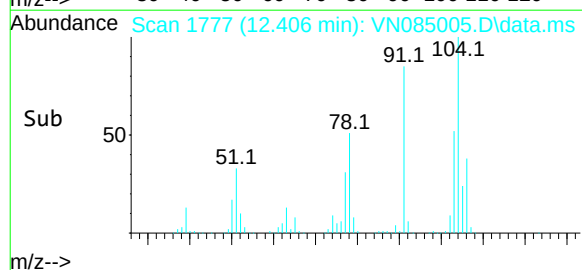
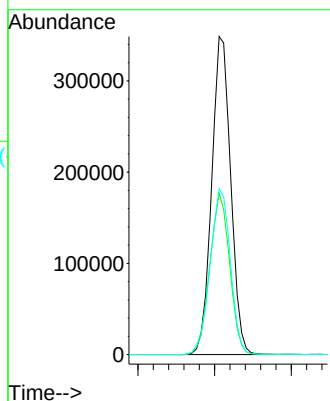
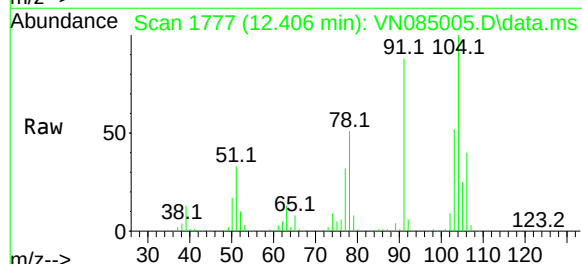
Tgt Ion:104 Resp: 601271

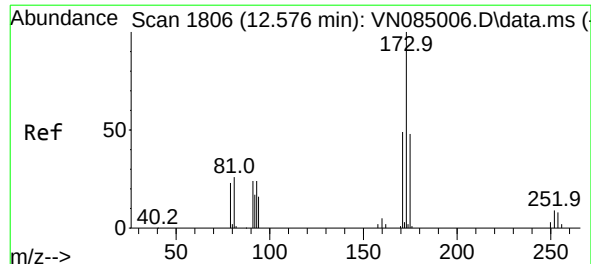
Ion Ratio Lower Upper

104 100

78 53.0 42.3 63.5

103 55.2 44.2 66.2





#71

Bromoform

Concen: 104.234 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

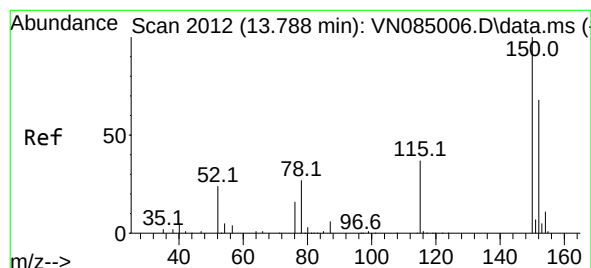
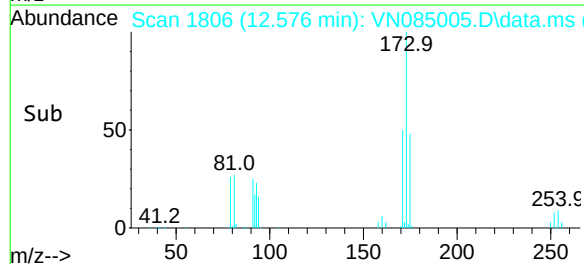
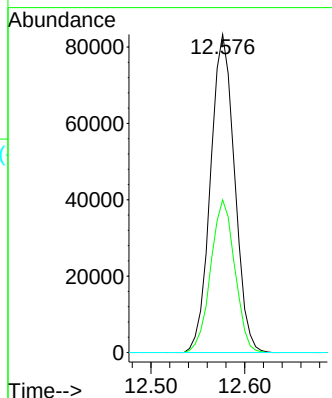
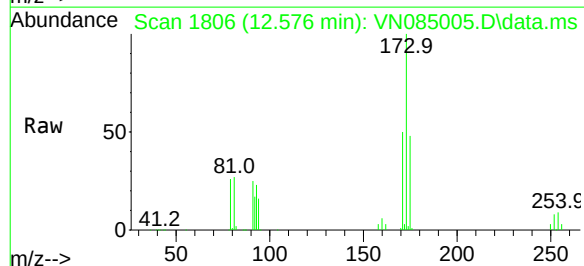
ClientSampleId :

VSTDICC100

Tgt Ion:	173	Resp:	148879
Ion Ratio	Lower	Upper	
173	100		
175	47.9	23.8	71.2
254	0.0	0.0	0.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

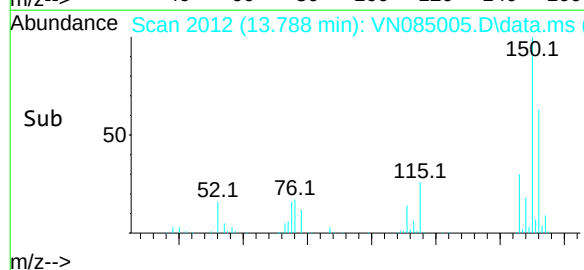
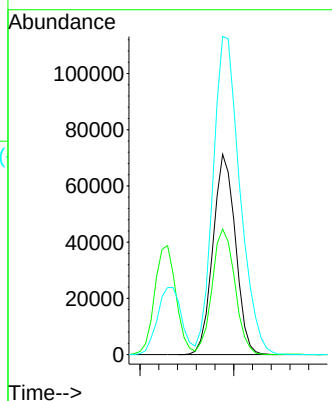
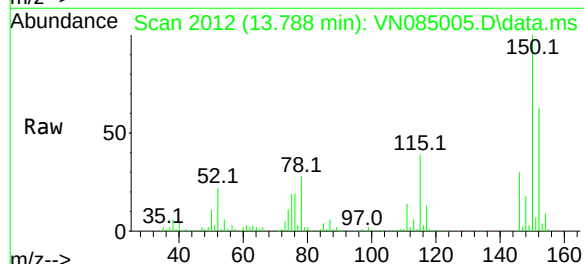
RT: 13.788 min Scan# 2012

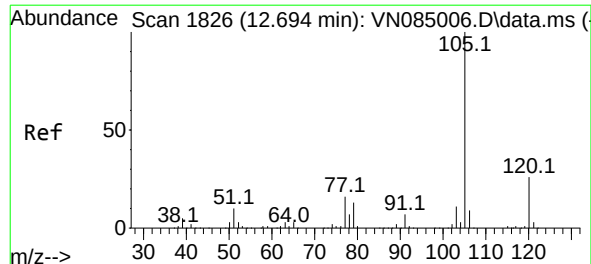
Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Tgt Ion:	152	Resp:	118591
Ion Ratio	Lower	Upper	
152	100		
115	63.4	31.7	95.1
150	189.7	0.0	351.4





#73

Isopropylbenzene

Concen: 110.216 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 105 Resp: 922085

Ion Ratio Lower Upper

105 100

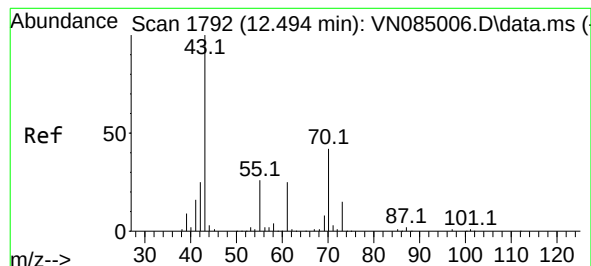
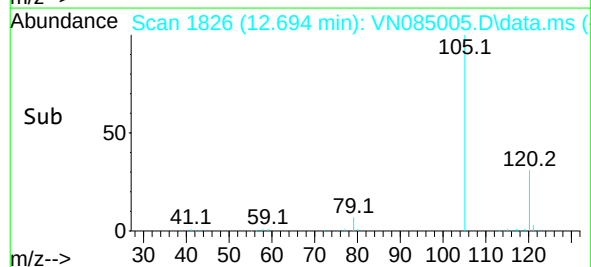
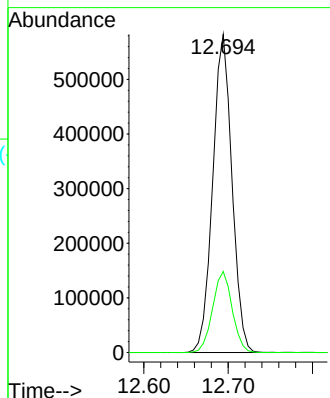
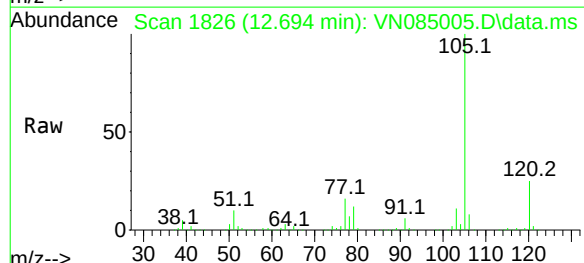
120 25.8 13.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#74

N-ethyl acetate

Concen: 106.820 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Tgt Ion: 43 Resp: 368260

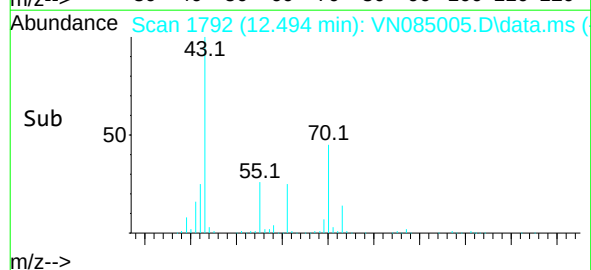
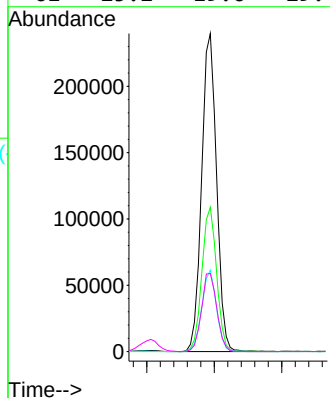
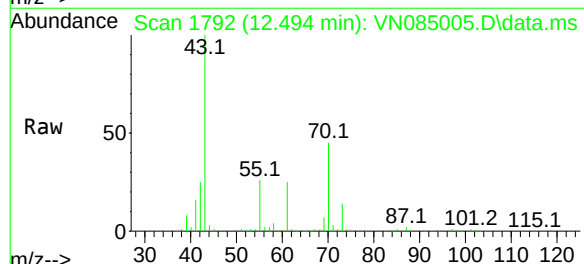
Ion Ratio Lower Upper

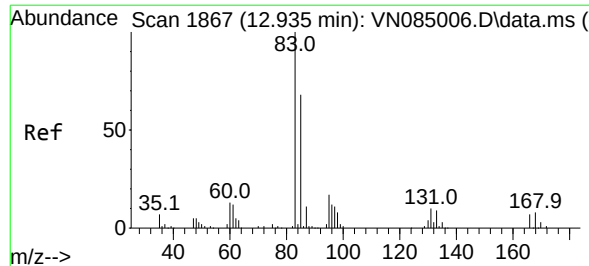
43 100

70 44.7 34.6 51.8

55 25.2 20.5 30.7

61 25.2 19.6 29.4





#75

1,1,2,2-Tetrachloroethane

Concen: 89.359 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 83 Resp: 255286

Ion Ratio Lower Upper

83 100

131 10.2 5.1 15.4

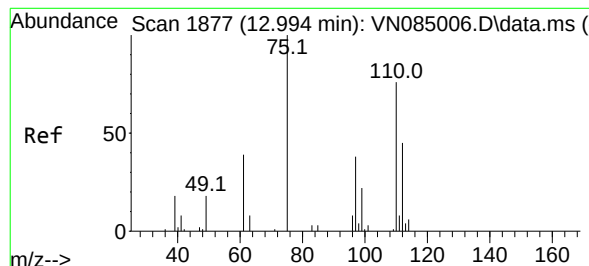
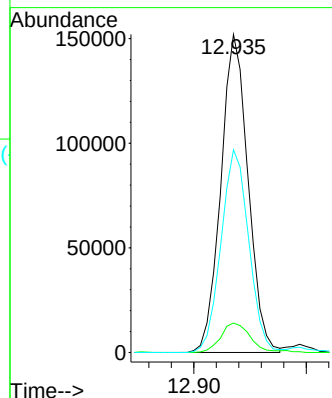
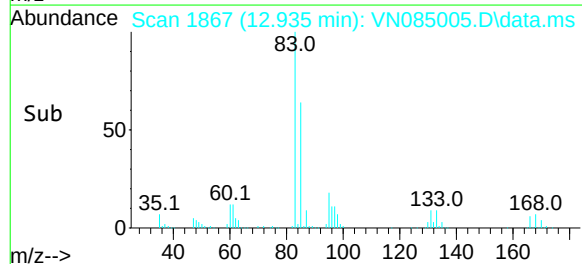
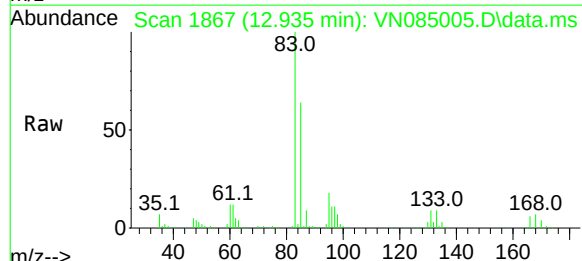
85 64.9 32.1 96.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#76

1,2,3-Trichloropropane

Concen: 107.901 ug/l m

RT: 12.994 min Scan# 1877

Delta R.T. -0.000 min

Lab File: VN085005.D

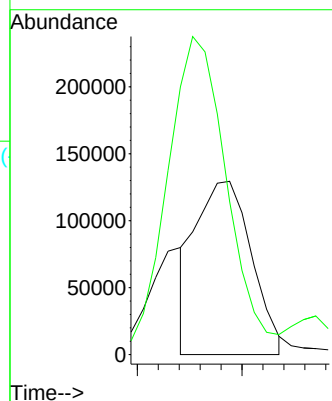
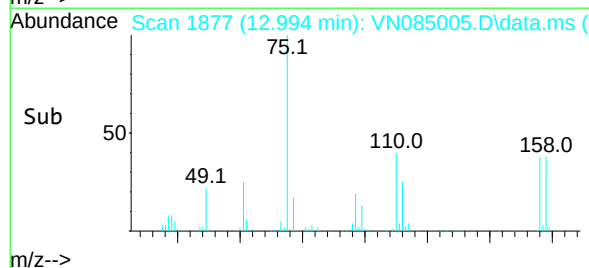
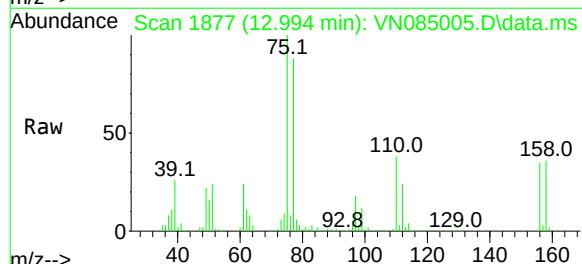
Acq: 22 Nov 2024 11:22

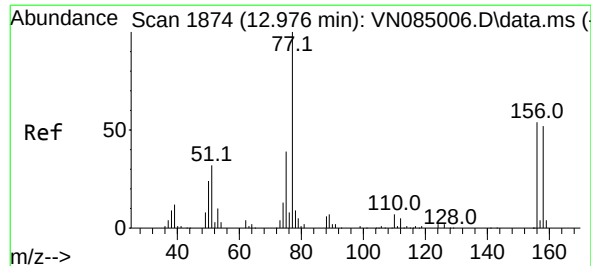
Tgt Ion: 75 Resp: 239373

Ion Ratio Lower Upper

75 100

77 197.4 109.1 327.4





#77

Bromobenzene

Concen: 95.881 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:156 Resp: 215866

Ion Ratio Lower Upper

156 100

77 218.8 107.2 321.6

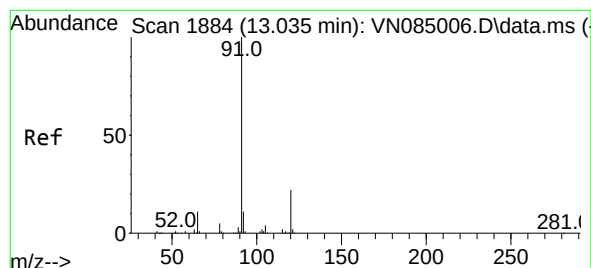
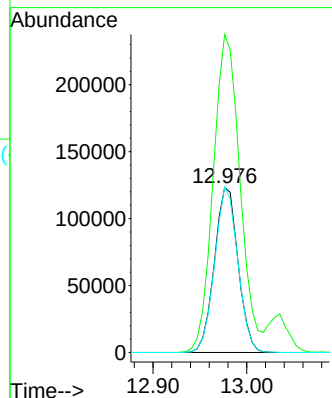
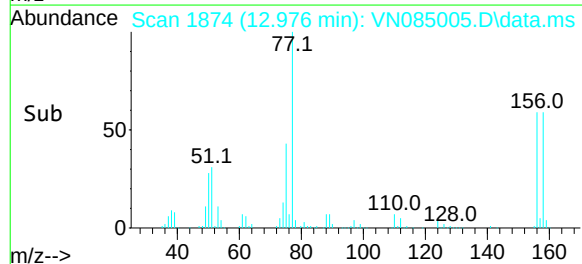
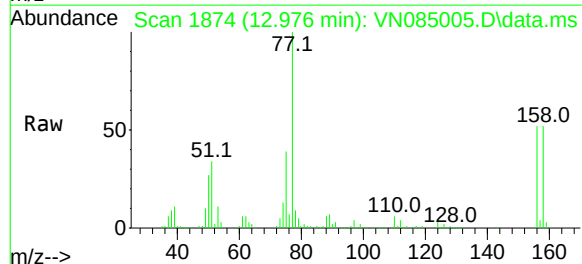
158 98.1 48.5 145.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#78

n-propylbenzene

Concen: 111.753 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. -0.000 min

Lab File: VN085005.D

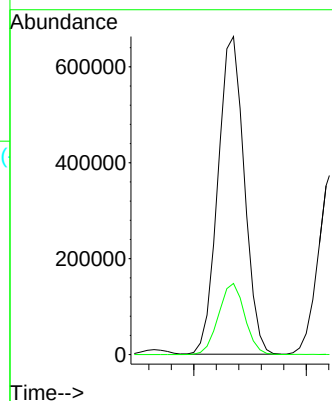
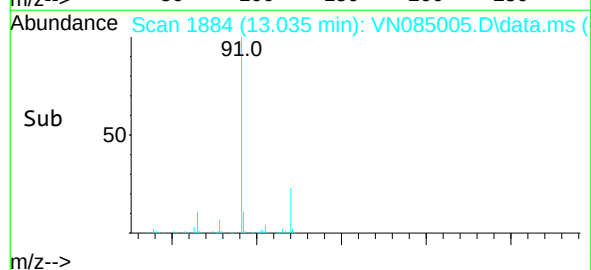
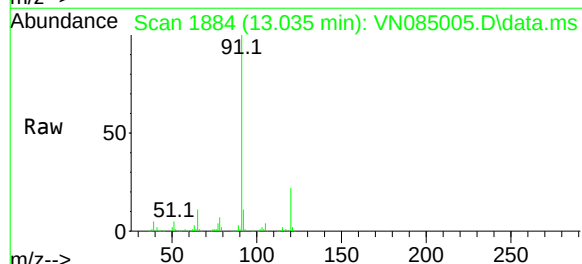
Acq: 22 Nov 2024 11:22

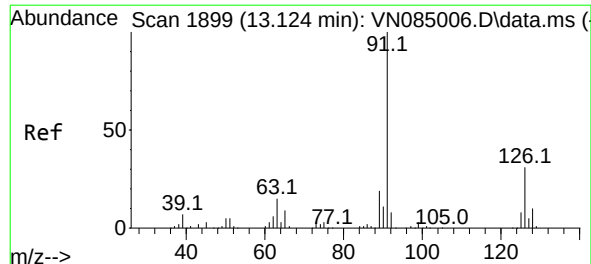
Tgt Ion: 91 Resp: 1078373

Ion Ratio Lower Upper

91 100

120 22.2 11.3 33.9





#79

2-Chlorotoluene

Concen: 102.230 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 658525

Ion Ratio Lower Upper

91 100

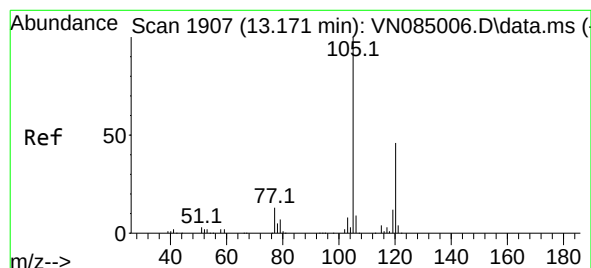
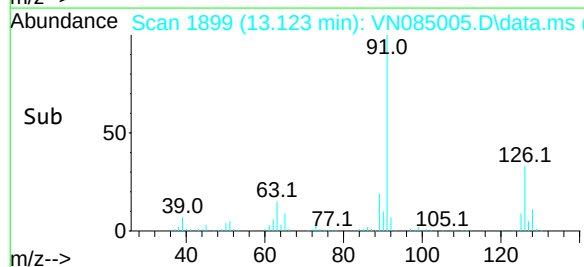
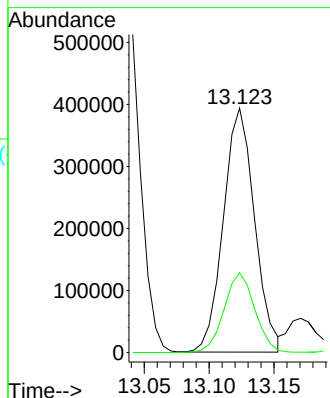
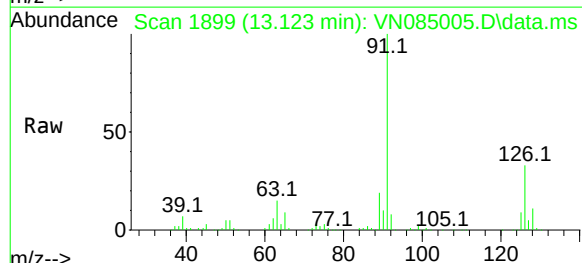
126 32.1 16.1 48.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#80

1,3,5-Trimethylbenzene

Concen: 110.573 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN085005.D

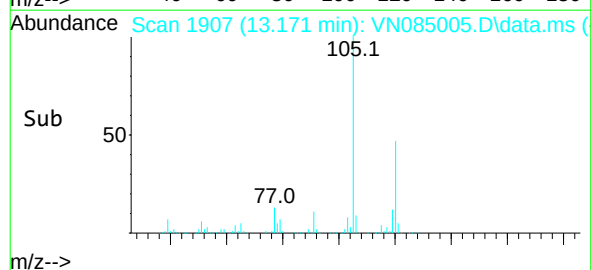
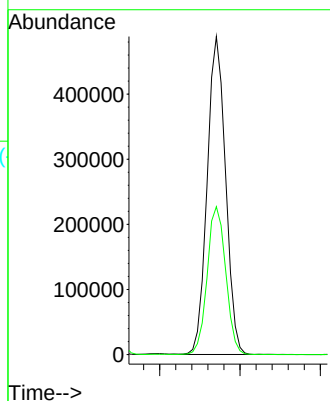
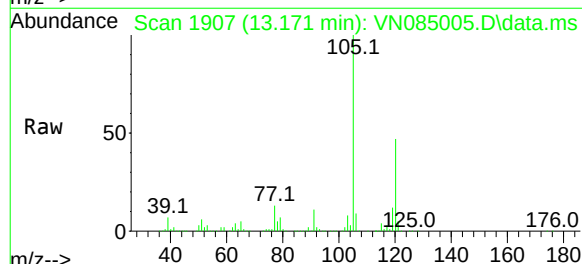
Acq: 22 Nov 2024 11:22

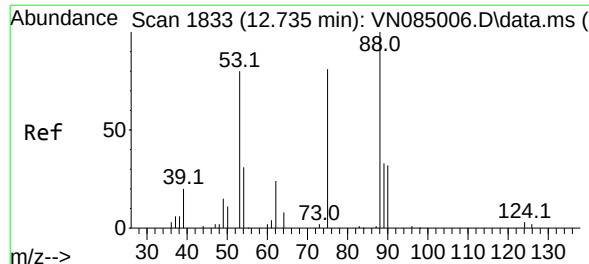
Tgt Ion:105 Resp: 776252

Ion Ratio Lower Upper

105 100

120 47.0 23.6 71.0





#81

trans-1,4-Dichloro-2-butene

Concen: 104.513 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

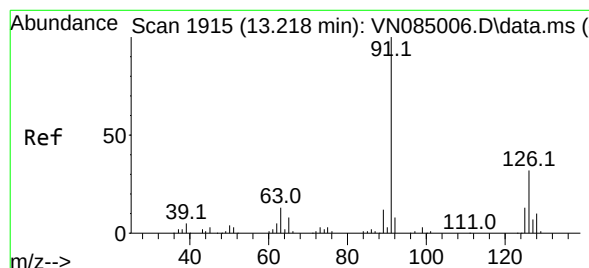
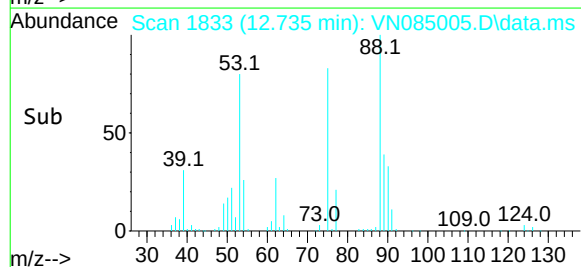
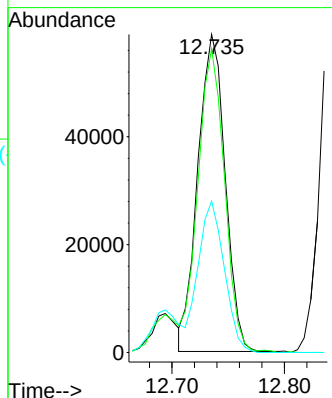
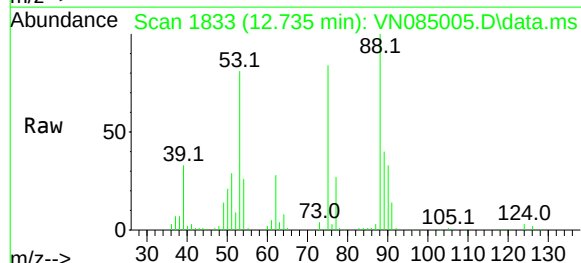
ClientSampleId :

VSTDICC100

Tgt Ion:	75	Resp:	99218
Ion	Ratio	Lower	Upper
75	100		
53	93.8	78.2	117.4
89	45.5	37.9	56.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#82

4-Chlorotoluene

Concen: 99.811 ug/l

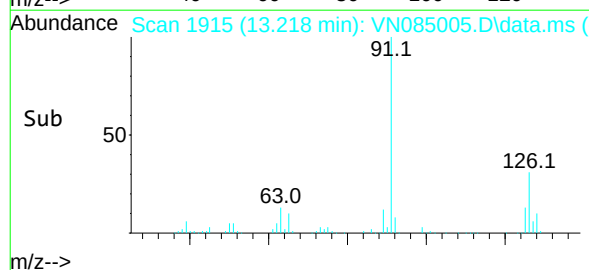
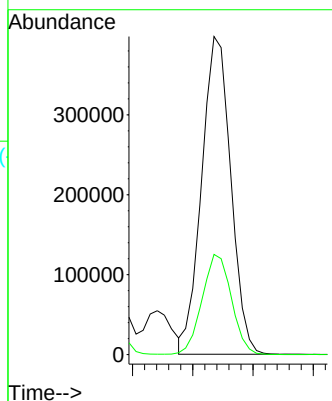
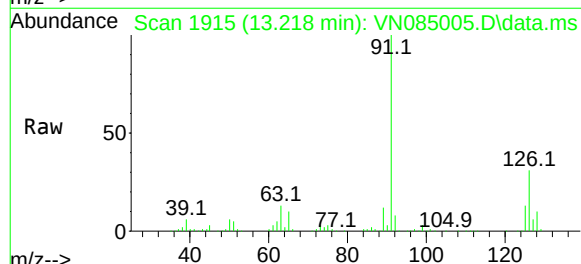
RT: 13.218 min Scan# 1915

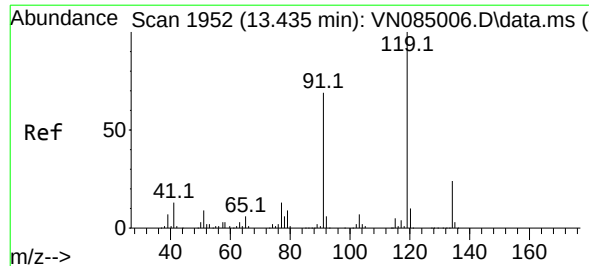
Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Tgt Ion:	91	Resp:	669311
Ion	Ratio	Lower	Upper
91	100		
126	31.8	16.1	48.3





#83

tert-Butylbenzene

Concen: 107.009 ug/l

RT: 13.435 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:119 Resp: 646369

Ion Ratio Lower Upper

119 100

91 70.8 35.1 105.5

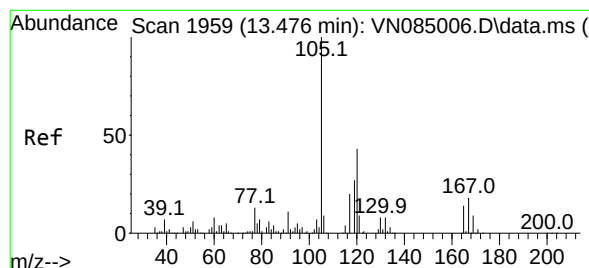
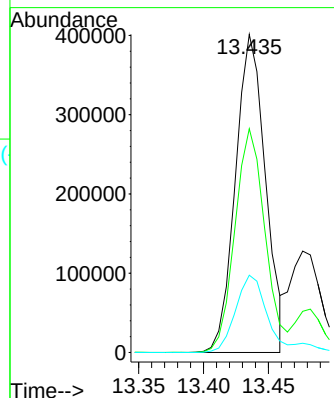
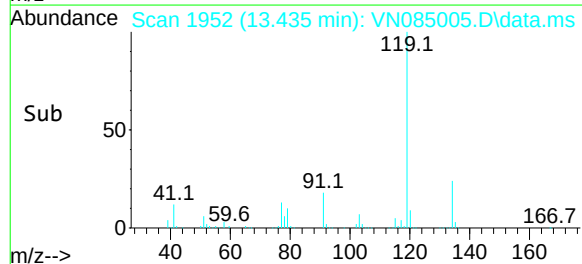
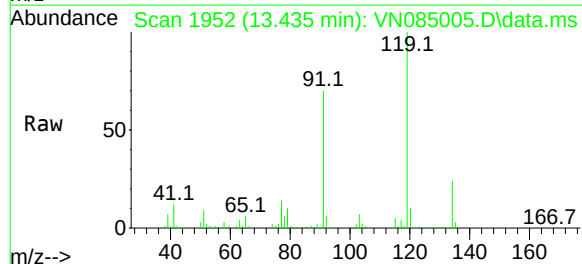
134 27.1 12.1 36.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#84

1,2,4-Trimethylbenzene

Concen: 109.040 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.006 min

Lab File: VN085005.D

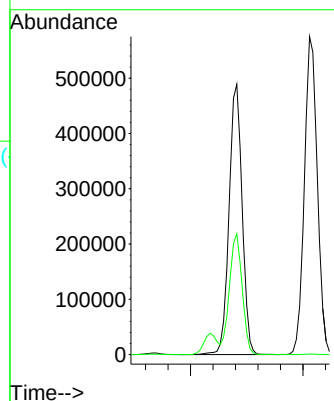
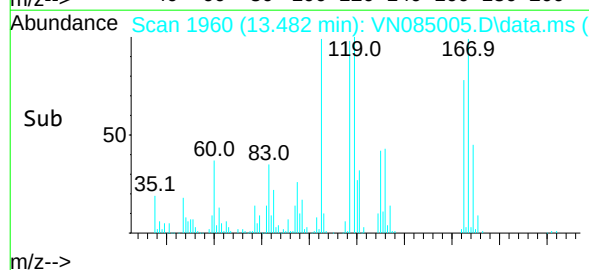
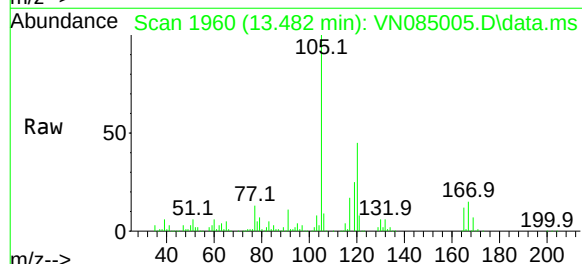
Acq: 22 Nov 2024 11:22

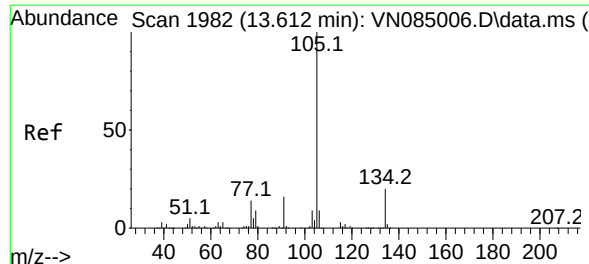
Tgt Ion:105 Resp: 787962

Ion Ratio Lower Upper

105 100

120 43.7 21.8 65.4





#85

sec-Butylbenzene

Concen: 112.777 ug/l

RT: 13.612 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:105 Resp: 920223

Ion Ratio Lower Upper

105 100

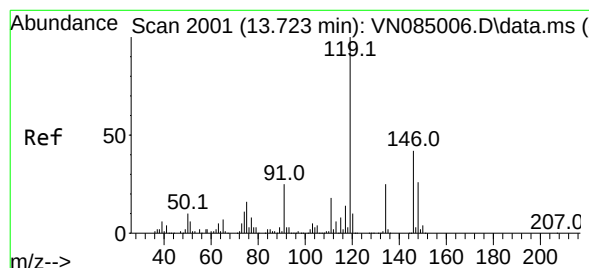
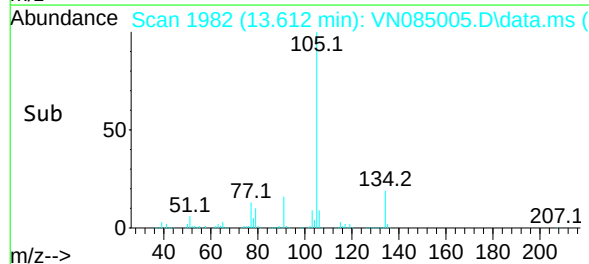
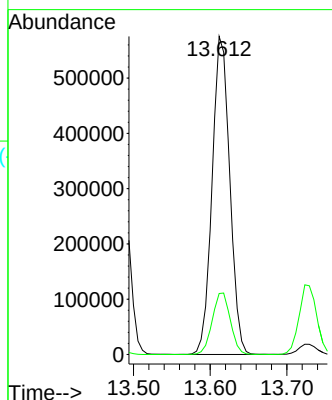
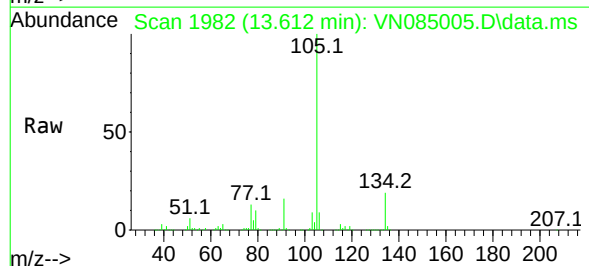
134 19.9 9.8 29.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#86

p-Isopropyltoluene

Concen: 115.104 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

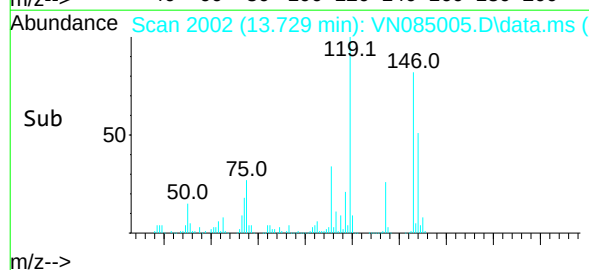
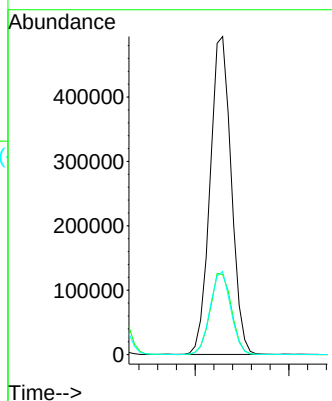
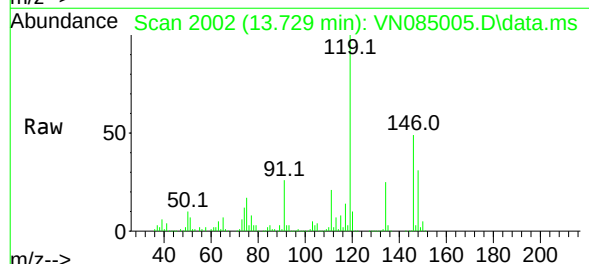
Tgt Ion:119 Resp: 775322

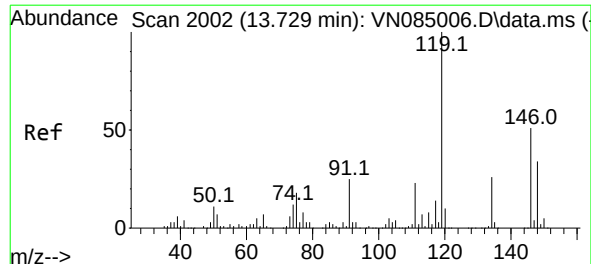
Ion Ratio Lower Upper

119 100

134 25.9 13.0 39.0

91 25.6 12.8 38.4





#87

1,3-Dichlorobenzene

Concen: 91.842 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:146 Resp: 407844

Ion Ratio Lower Upper

146 100

111 42.7 21.6 65.0

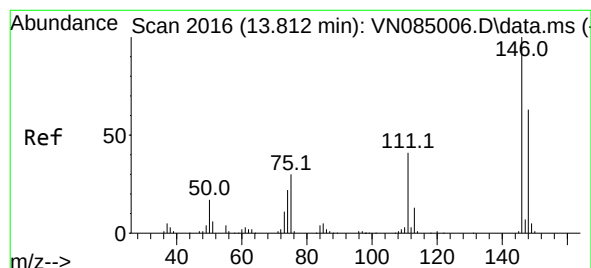
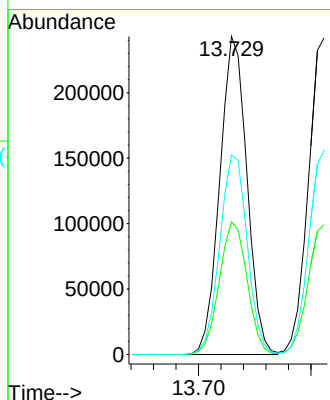
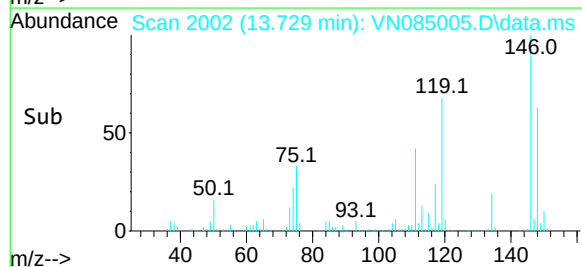
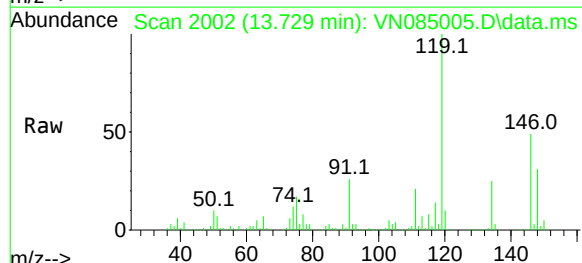
148 63.7 32.2 96.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#88

1,4-Dichlorobenzene

Concen: 90.361 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

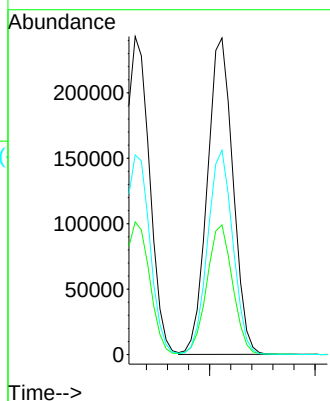
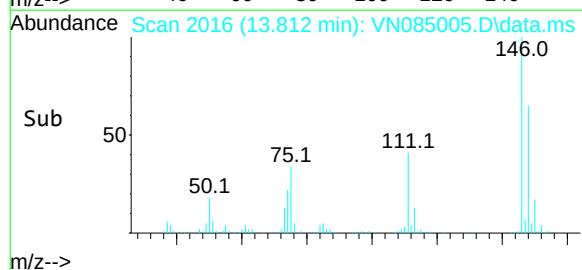
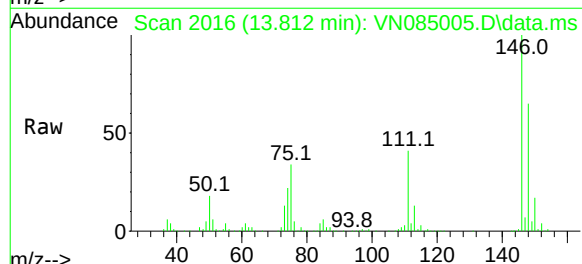
Tgt Ion:146 Resp: 409489

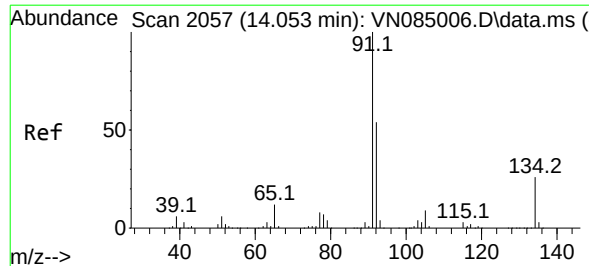
Ion Ratio Lower Upper

146 100

111 41.4 20.9 62.8

148 63.6 31.3 93.9





#89

n-Butylbenzene

Concen: 109.120 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

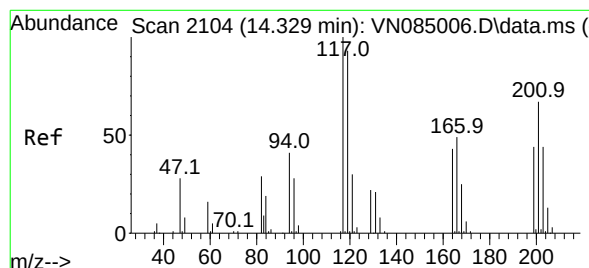
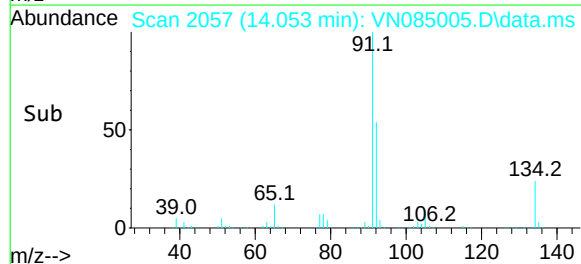
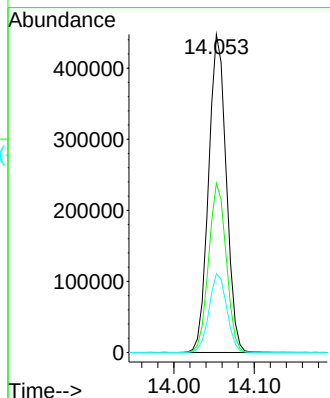
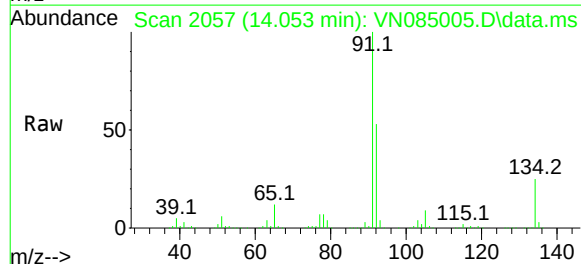
ClientSampleId :

VSTDICC100

Tgt Ion:	91	Resp:	683538
Ion	Ratio	Lower	Upper
91	100		
92	53.0	26.8	80.3
134	24.9	12.8	38.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#90

Hexachloroethane

Concen: 100.783 ug/l

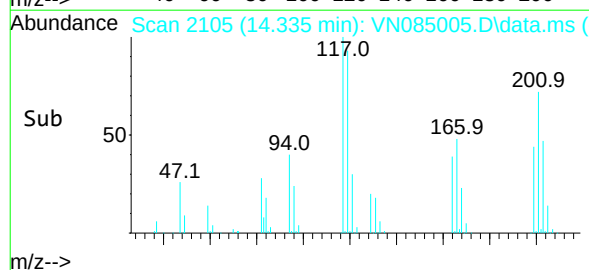
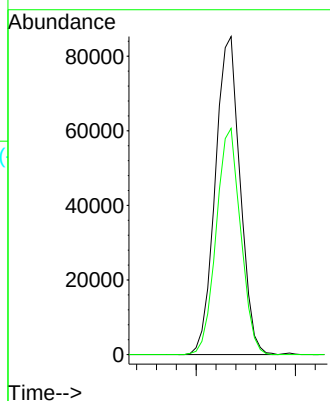
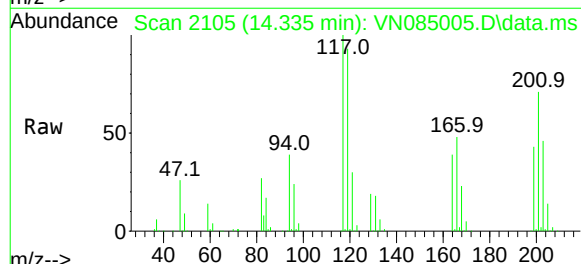
RT: 14.335 min Scan# 2105

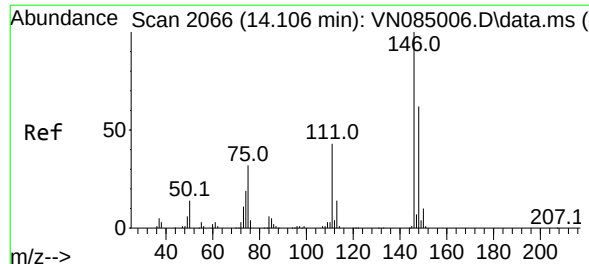
Delta R.T. 0.006 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Tgt Ion:	117	Resp:	147973
Ion	Ratio	Lower	Upper
117	100		
201	70.1	35.2	105.6





#91

1,2-Dichlorobenzene

Concen: 92.796 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:146 Resp: 394872

Ion Ratio Lower Upper

146 100

111 43.9 21.9 65.8

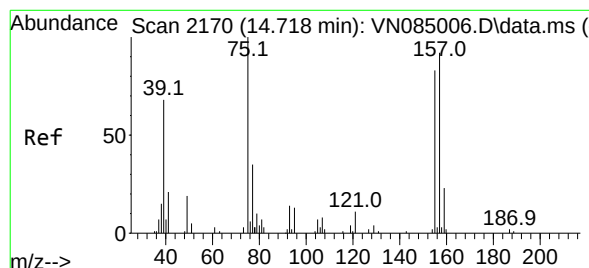
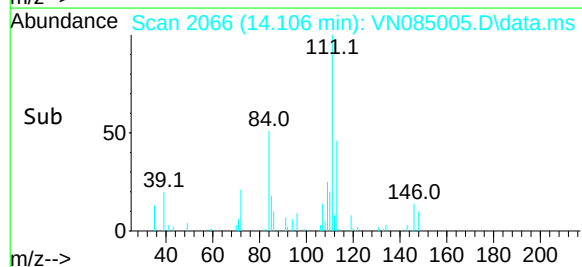
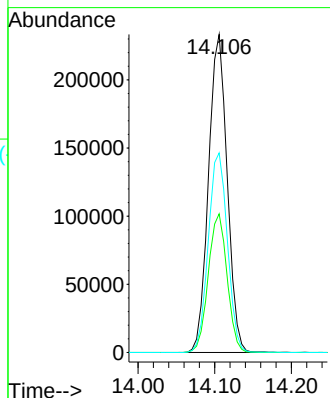
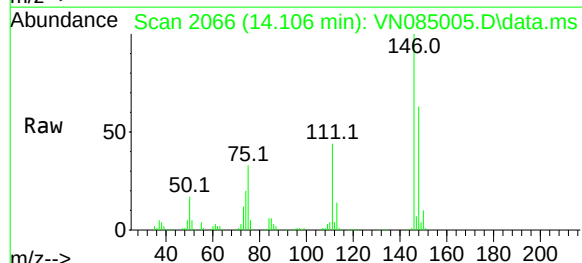
148 64.3 31.1 93.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 92.071 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

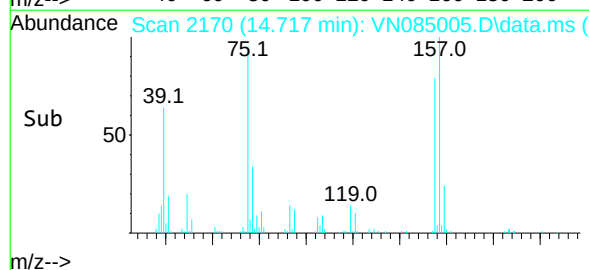
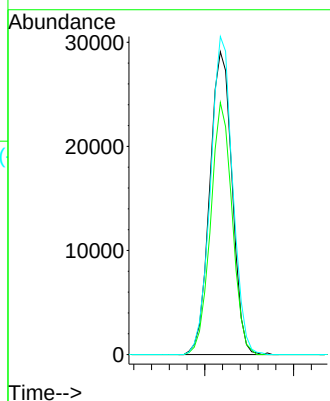
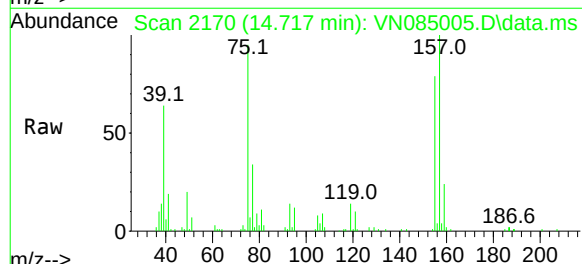
Tgt Ion: 75 Resp: 50863

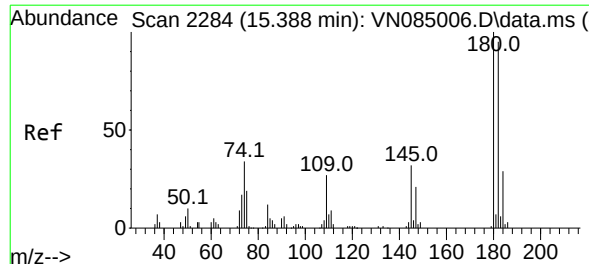
Ion Ratio Lower Upper

75 100

155 79.9 38.9 116.7

157 104.3 48.3 144.9





#93

1,2,4-Trichlorobenzene

Concen: 95.107 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:180 Resp: 219866

Ion Ratio Lower Upper

180 100

182 95.1 46.9 140.8

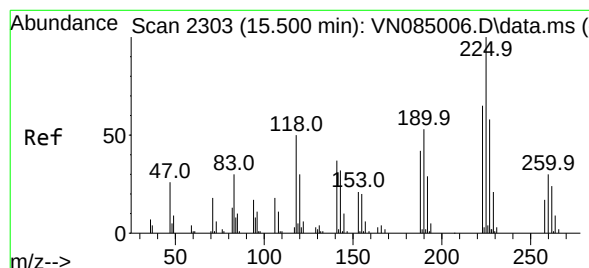
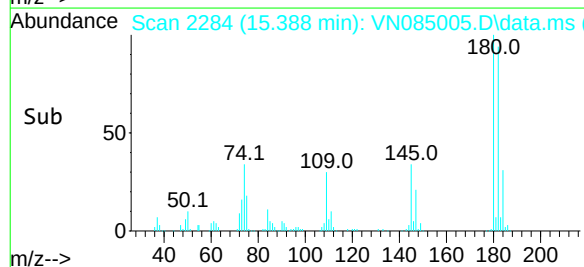
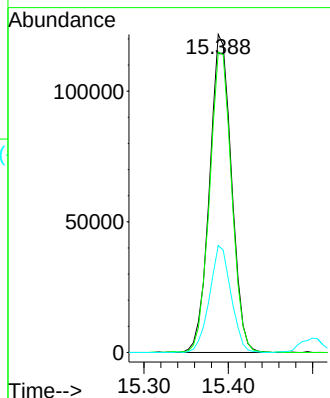
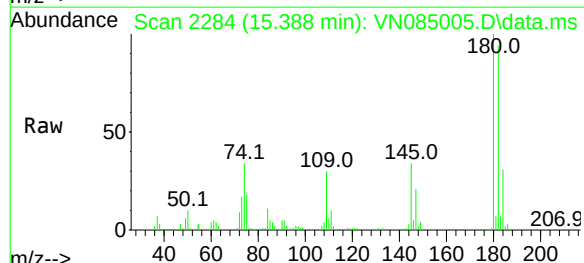
145 33.0 16.3 48.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#94

Hexachlorobutadiene

Concen: 92.405 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

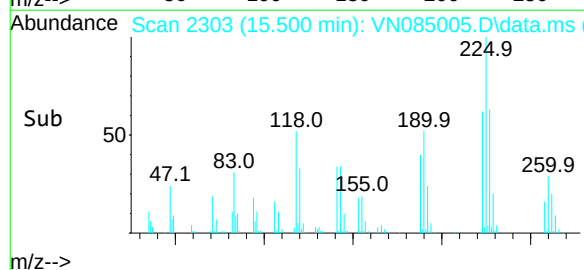
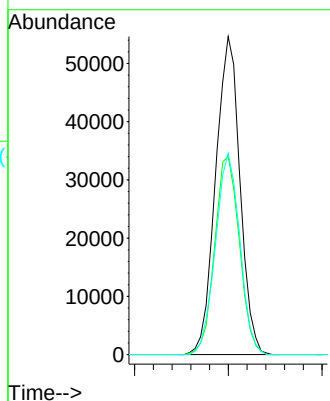
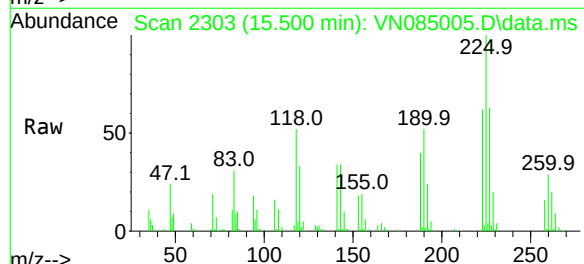
Tgt Ion:225 Resp: 98588

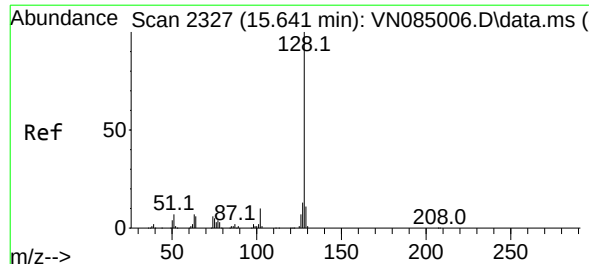
Ion Ratio Lower Upper

225 100

223 63.1 30.9 92.8

227 63.2 31.5 94.5





#95

Naphthalene

Concen: 104.183 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Instrument :

MSVOA_N

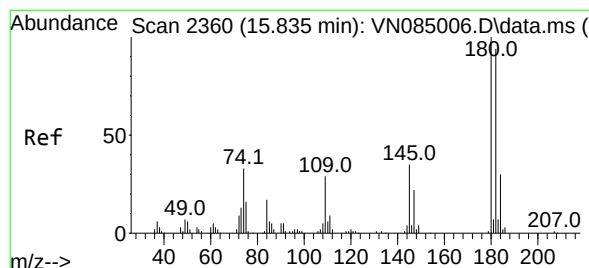
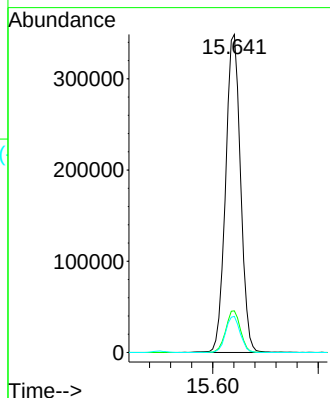
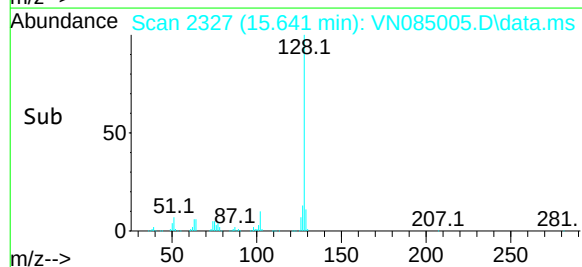
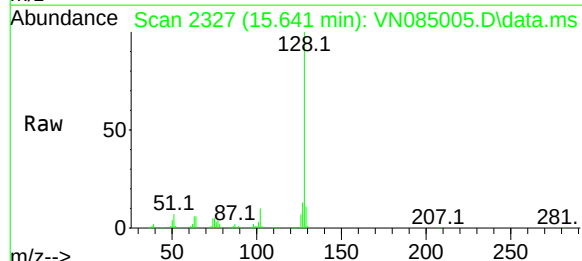
ClientSampleId :

VSTDICC100

Tgt Ion:	128	Resp:	685964
Ion Ratio	Lower	Upper	
128	100		
127	12.9	10.6	16.0
129	11.1	8.6	12.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#96

1,2,3-Trichlorobenzene

Concen: 99.092 ug/l

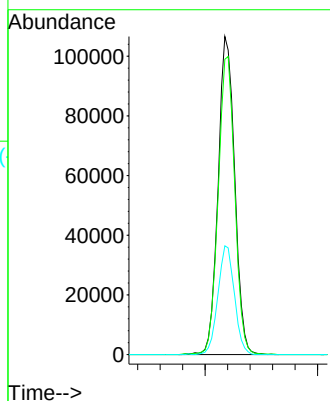
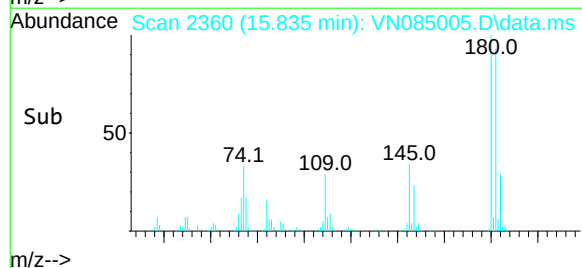
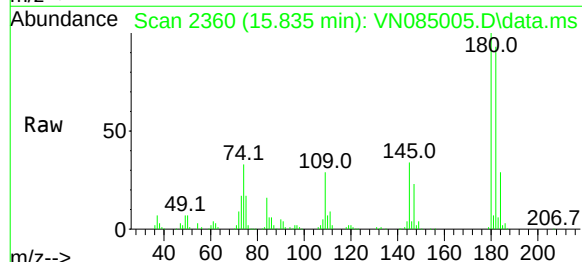
RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN085005.D

Acq: 22 Nov 2024 11:22

Tgt Ion:	180	Resp:	218578
Ion Ratio	Lower	Upper	
180	100		
182	93.8	46.4	139.2
145	33.9	17.3	52.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
 Data File : VN085006.D
 Acq On : 22 Nov 2024 11:46
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Quant Time: Nov 23 01:58:28 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 23 01:56:57 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2024
 Supervised By :Mahesh Dadoda 11/25/2024

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	163353	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	271467	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	232158	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	114469	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.571	65	115244	49.528	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.060%
35) Dibromofluoromethane	8.159	113	92297	50.417	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	100.840%
50) Toluene-d8	10.565	98	338938	51.662	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.320%
62) 4-Bromofluorobenzene	12.847	95	126840	51.698	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	103.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.118	85	91455	49.512	ug/l	100
3) Chloromethane	2.360	50	96463	45.027	ug/l	100
4) Vinyl Chloride	2.512	62	93960	48.804	ug/l	100
5) Bromomethane	2.901	94	50828	47.102	ug/l	100
6) Chloroethane	3.065	64	61844	47.657	ug/l	100
7) Trichlorofluoromethane	3.459	101	157642	48.134	ug/l	100
8) Diethyl Ether	3.948	74	57011	51.145	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.353	101	90080	48.495	ug/l	100
10) Methyl Iodide	4.571	142	122086	49.653	ug/l	100
11) Tert butyl alcohol	5.542	59	73708	237.049	ug/l	100
12) 1,1-Dichloroethene	4.318	96	85520	49.324	ug/l	100
13) Acrolein	4.165	56	57099	275.201	ug/l	100
14) Allyl chloride	5.006	41	144773	49.531	ug/l	100
15) Acrylonitrile	5.712	53	214719	243.910	ug/l	100
16) Acetone	4.424	43	165611	244.384	ug/l	100
17) Carbon Disulfide	4.695	76	240507	46.996	ug/l	100
18) Methyl Acetate	5.018	43	107105	49.436	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	288810	50.982	ug/l	100
20) Methylene Chloride	5.265	84	96084	46.464	ug/l	100
21) trans-1,2-Dichloroethene	5.771	96	91214	49.992	ug/l	100
22) Diisopropyl ether	6.665	45	290883	49.447	ug/l	100
23) Vinyl Acetate	6.595	43	1058594	260.842	ug/l	100
24) 1,1-Dichloroethane	6.553	63	171385	48.684	ug/l	100
25) 2-Butanone	7.483	43	270539	244.184	ug/l	100
26) 2,2-Dichloropropane	7.483	77	162280	49.367	ug/l	100
27) cis-1,2-Dichloroethene	7.477	96	107332	48.796	ug/l	100
28) Bromochloromethane	7.806	49	64580	48.597	ug/l	100
29) Tetrahydrofuran	7.836	42	175063	254.088	ug/l	100
30) Chloroform	7.959	83	179452	47.921	ug/l	100
31) Cyclohexane	8.253	56	144139	46.504	ug/l	100
32) 1,1,1-Trichloroethane	8.159	97	165474	48.900	ug/l	100
36) 1,1-Dichloropropene	8.365	75	123540	49.822	ug/l	100
37) Ethyl Acetate	7.553	43	109296	48.484	ug/l	100
38) Carbon Tetrachloride	8.353	117	144897	50.624	ug/l	100
39) Methylcyclohexane	9.594	83	137583	53.395	ug/l	100
40) Benzene	8.600	78	386616	49.297	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
 Data File : VN085006.D
 Acq On : 22 Nov 2024 11:46
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Quant Time: Nov 23 01:58:28 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 23 01:56:57 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2024
 Supervised By :Mahesh Dadoda 11/25/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	62534	50.102	ug/l	100
42) 1,2-Dichloroethane	8.665	62	130440	48.616	ug/l	100
43) Isopropyl Acetate	8.683	43	204483	43.670	ug/l	100
44) Trichloroethene	9.347	130	88746	48.692	ug/l	100
45) 1,2-Dichloropropane	9.618	63	94677	49.013	ug/l	100
46) Dibromomethane	9.706	93	66370	49.447	ug/l	100
47) Bromodichloromethane	9.883	83	141808	49.849	ug/l	100
48) Methyl methacrylate	9.677	41	89202	51.193	ug/l	100
49) 1,4-Dioxane	9.694	88	31557	1044.331	ug/l	100
51) 4-Methyl-2-Pentanone	10.441	43	551484	257.854	ug/l	100
52) Toluene	10.624	92	240730	51.850	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	148995	52.241	ug/l	100
54) cis-1,3-Dichloropropene	10.306	75	156342	51.671	ug/l	100
55) 1,1,2-Trichloroethane	11.012	97	87334	50.501	ug/l	100
56) Ethyl methacrylate	10.871	69	140546	55.617	ug/l	100
57) 1,3-Dichloropropane	11.159	76	151573	49.800	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	368190	297.030	ug/l	100
59) 2-Hexanone	11.194	43	424152	265.165	ug/l	100
60) Dibromochloromethane	11.359	129	104699	49.538	ug/l	100
61) 1,2-Dibromoethane	11.465	107	89471	49.991	ug/l	100
64) Tetrachloroethene	11.100	164	76257	48.747	ug/l	100
65) Chlorobenzene	11.888	112	252937	48.041	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	92289	49.785	ug/l	100
67) Ethyl Benzene	11.959	91	451491	52.856	ug/l	100
68) m/p-Xylenes	12.071	106	342033	105.174	ug/l	100
69) o-Xylene	12.394	106	164137	53.059	ug/l	100
70) Styrene	12.406	104	277349	53.912	ug/l	100
71) Bromoform	12.576	173	71858	52.221	ug/l #	100
73) Isopropylbenzene	12.694	105	415716	51.479	ug/l	100
74) N-ethyl acetate	12.494	43	177685	53.396	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.935	83	126215	45.771	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	103311m	48.246	ug/l	
77) Bromobenzene	12.976	156	105184	48.402	ug/l	100
78) n-propylbenzene	13.035	91	484892	52.059	ug/l	100
79) 2-Chlorotoluene	13.124	91	305747	49.174	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	360125	53.145	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	46724	50.990	ug/l	100
82) 4-Chlorotoluene	13.218	91	317569	49.063	ug/l	100
83) tert-Butylbenzene	13.435	119	301180	51.657	ug/l	100
84) 1,2,4-Trimethylbenzene	13.476	105	371046	53.195	ug/l	100
85) sec-Butylbenzene	13.612	105	419761	53.296	ug/l	100
86) p-Isopropyltoluene	13.723	119	353974	54.443	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	196552	45.855	ug/l	100
88) 1,4-Dichlorobenzene	13.812	146	201469	46.058	ug/l	100
89) n-Butylbenzene	14.053	91	305730	50.564	ug/l	100
90) Hexachloroethane	14.329	117	69444	49.001	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	193123	47.019	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.718	75	25059	46.995	ug/l	100
93) 1,2,4-Trichlorobenzene	15.388	180	103265	46.278	ug/l	100
94) Hexachlorobutadiene	15.500	225	46186	44.848	ug/l	100
95) Naphthalene	15.641	128	324523	51.063	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	102772	48.269	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085006.D
Acq On : 22 Nov 2024 11:46
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024

Quant Time: Nov 23 01:58:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 2024
Response via : Initial Calibration

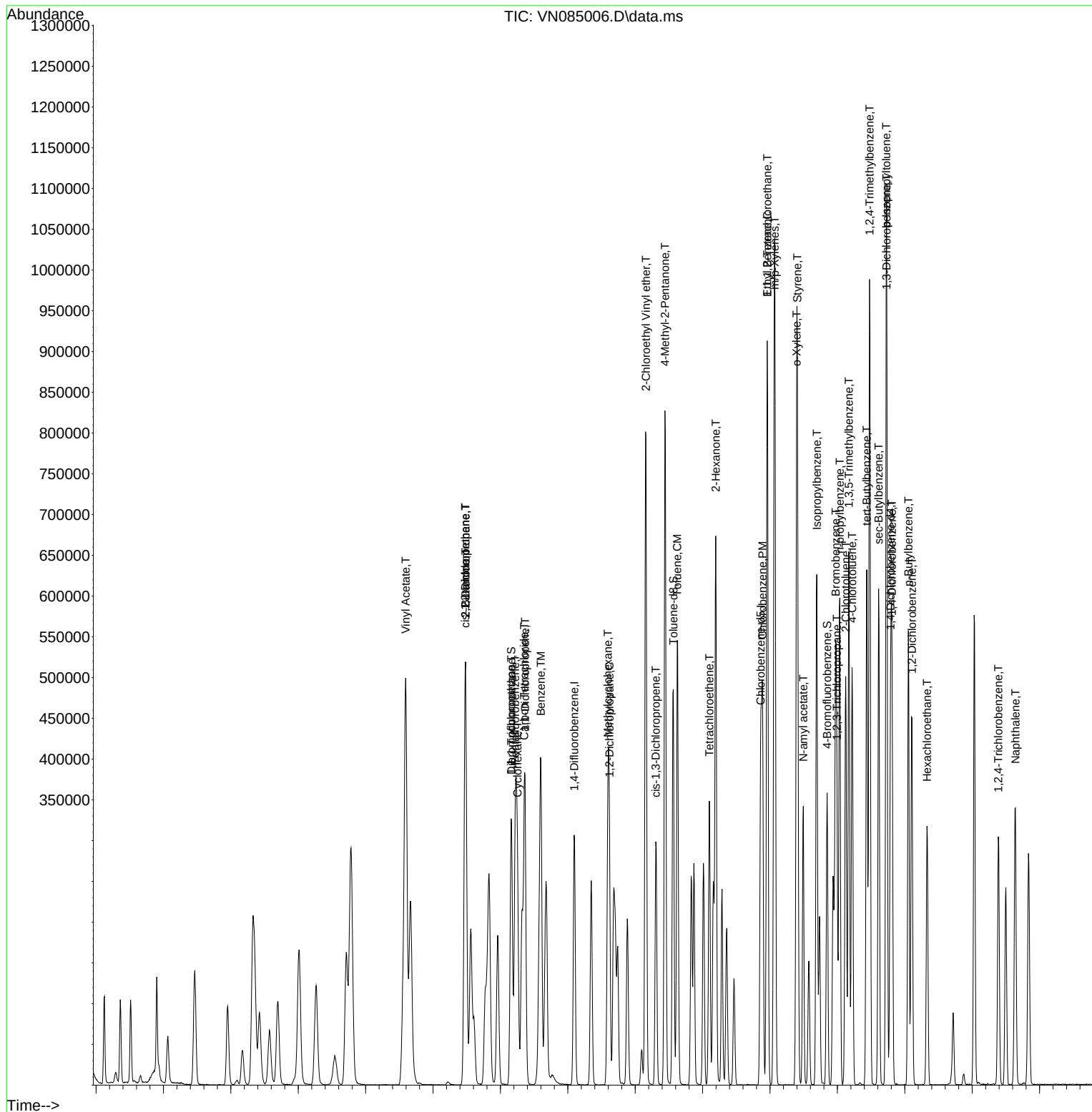
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

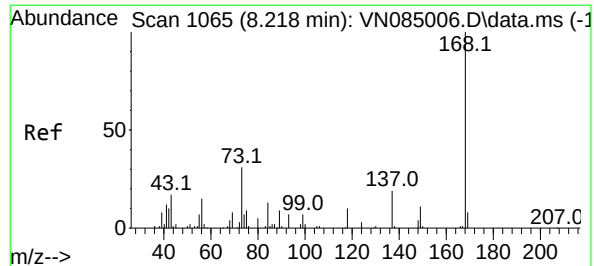
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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Supervised By :Mahesh Dadoda 11/25/2024





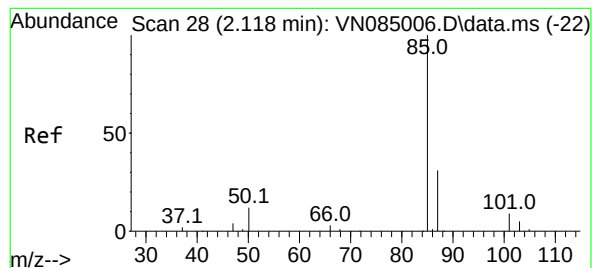
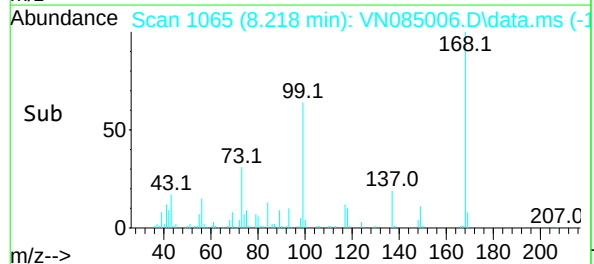
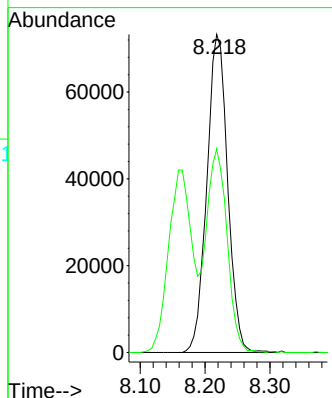
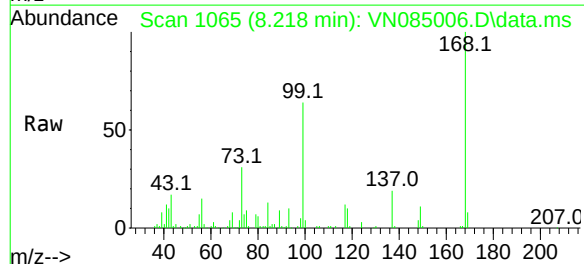
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085006.D
Acq: 22 Nov 2024 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 168 Resp: 163353
Ion Ratio Lower Upper
168 100
99 64.0 51.2 76.8

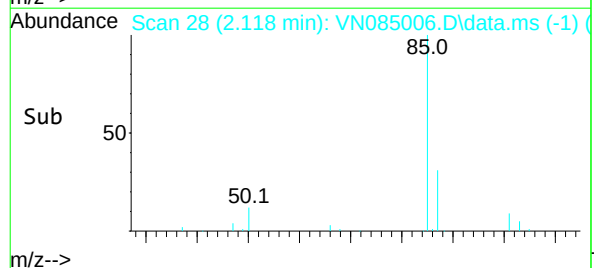
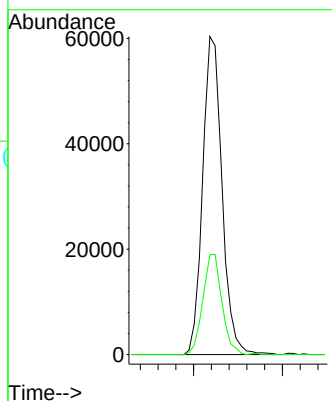
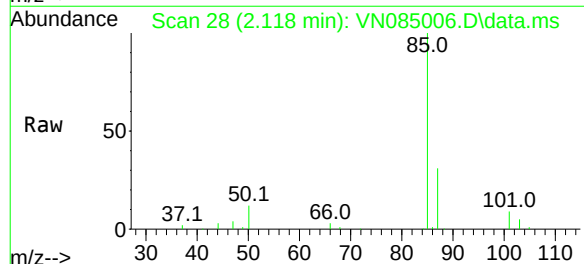
Manual Integrations
APPROVED

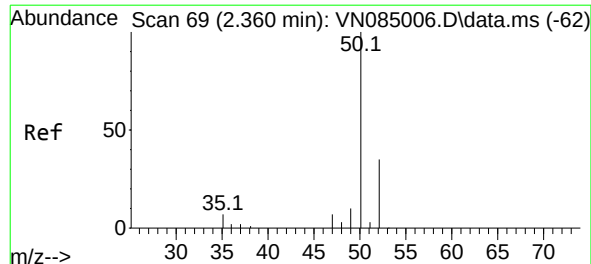
Reviewed By : John Carlone 11/25/2024
Supervised By : Mahesh Dadoda 11/25/2024



#2
Dichlorodifluoromethane
Concen: 49.512 ug/l
RT: 2.118 min Scan# 28
Delta R.T. 0.000 min
Lab File: VN085006.D
Acq: 22 Nov 2024 11:46

Tgt Ion: 85 Resp: 91455
Ion Ratio Lower Upper
85 100
87 31.4 15.7 47.1





#3

Chloromethane

Concen: 45.027 ug/l

RT: 2.360 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 50 Resp: 96463

Ion Ratio Lower Upper

50 100

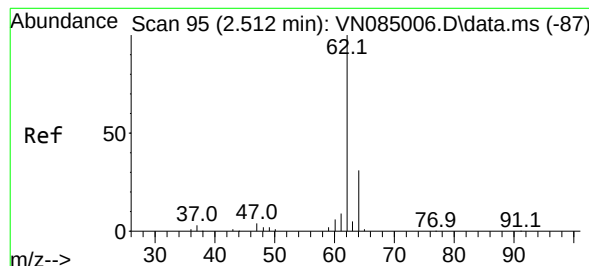
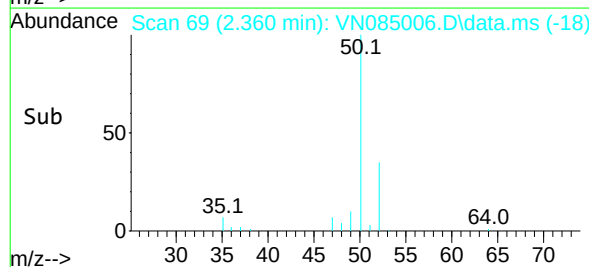
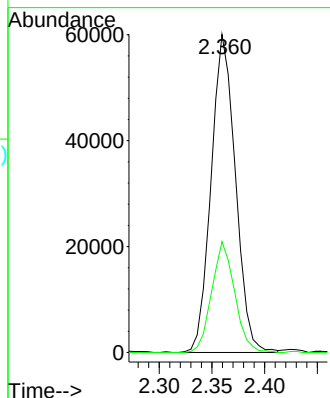
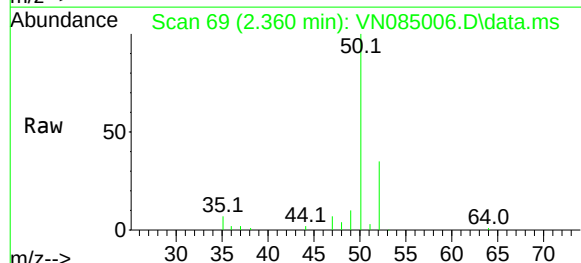
52 34.8 27.8 41.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#4

Vinyl Chloride

Concen: 48.804 ug/l

RT: 2.512 min Scan# 95

Delta R.T. 0.000 min

Lab File: VN085006.D

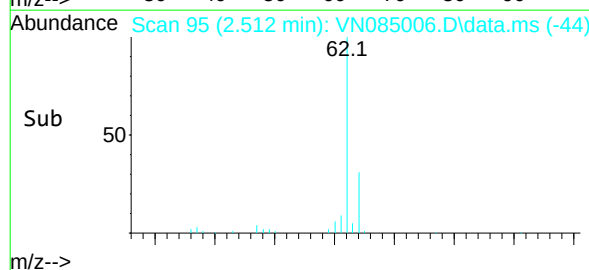
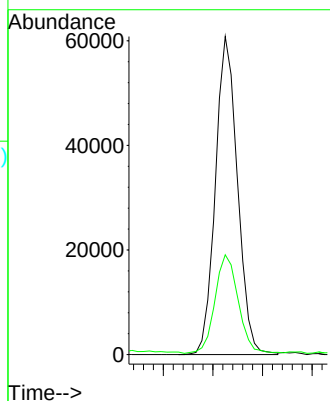
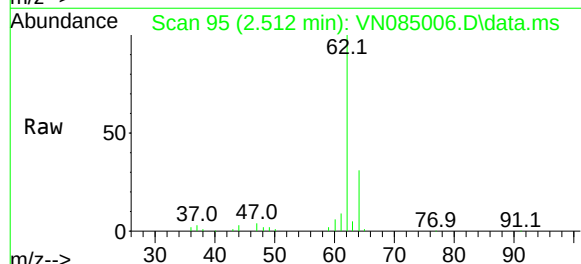
Acq: 22 Nov 2024 11:46

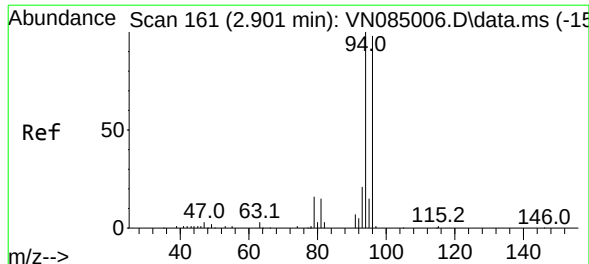
Tgt Ion: 62 Resp: 93960

Ion Ratio Lower Upper

62 100

64 30.7 24.6 36.8





#5

Bromomethane

Concen: 47.102 ug/l

RT: 2.901 min Scan# 161

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 94 Resp: 50828

Ion Ratio Lower Upper

94 100

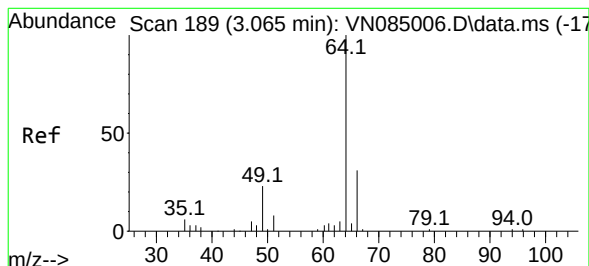
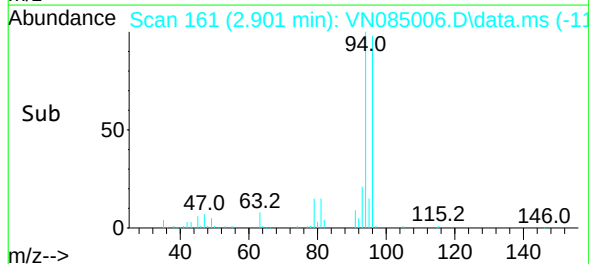
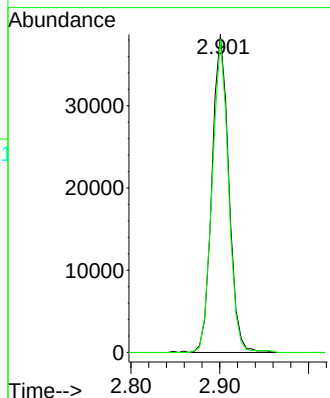
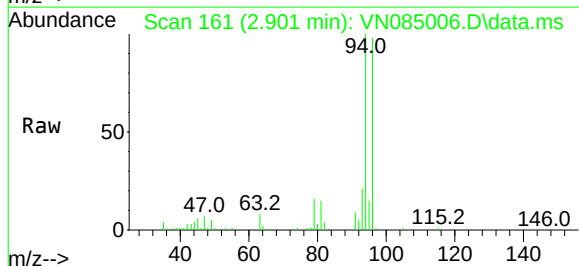
96 98.4 78.7 118.1

Manual Integrations

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Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#6

Chloroethane

Concen: 47.657 ug/l

RT: 3.065 min Scan# 189

Delta R.T. 0.000 min

Lab File: VN085006.D

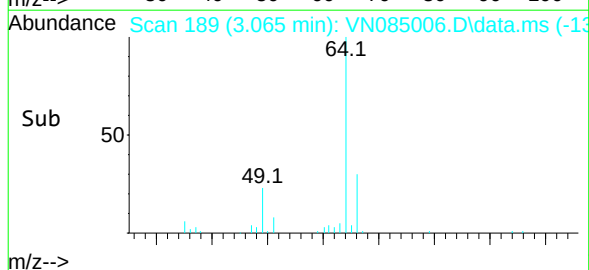
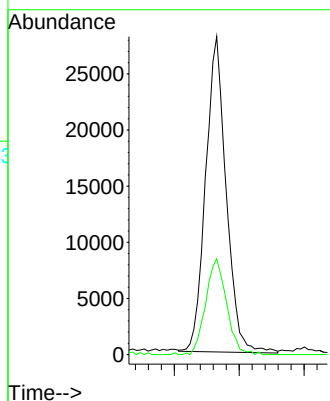
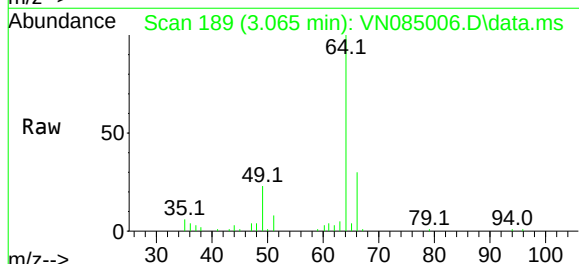
Acq: 22 Nov 2024 11:46

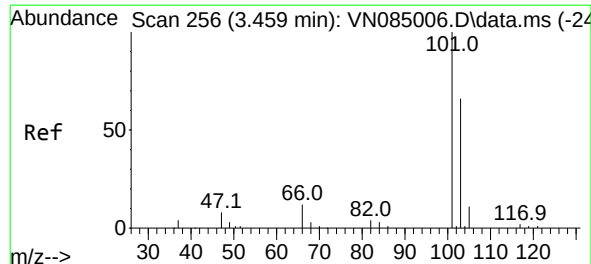
Tgt Ion: 64 Resp: 61844

Ion Ratio Lower Upper

64 100

66 30.5 24.4 36.6





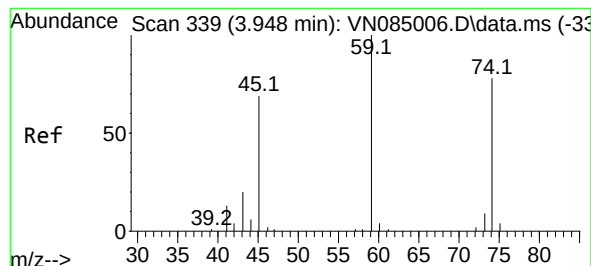
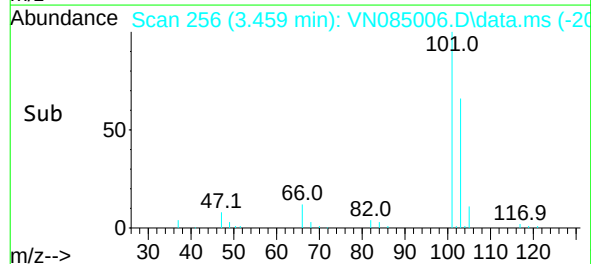
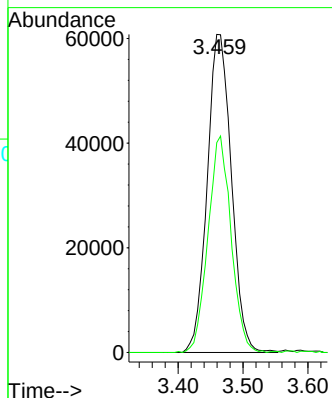
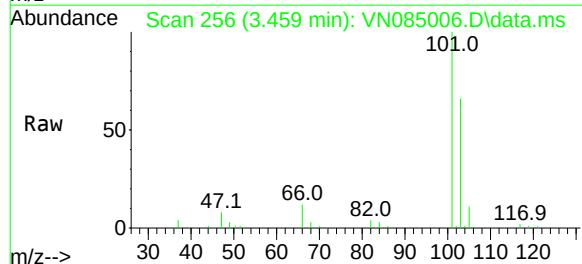
#7
Trichlorofluoromethane
Concen: 48.134 ug/l
RT: 3.459 min Scan# 256
Delta R.T. 0.000 min
Lab File: VN085006.D
Acq: 22 Nov 2024 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 101 Resp: 157642
Ion Ratio Lower Upper
101 100
103 65.7 52.6 78.8

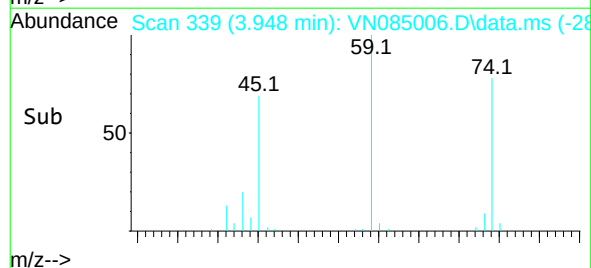
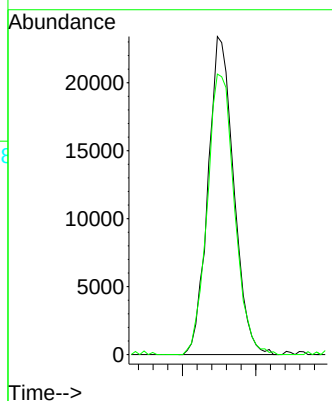
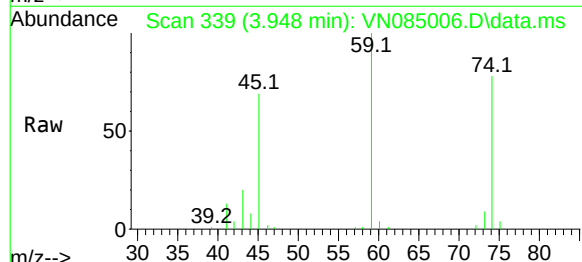
Manual Integrations
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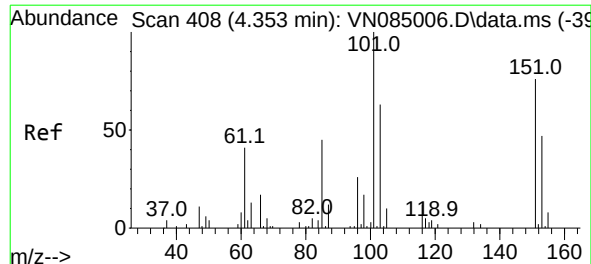
Reviewed By : John Carlone 11/25/2024
Supervised By : Mahesh Dadoda 11/25/2024



#8
Diethyl Ether
Concen: 51.145 ug/l
RT: 3.948 min Scan# 339
Delta R.T. 0.000 min
Lab File: VN085006.D
Acq: 22 Nov 2024 11:46

Tgt Ion: 74 Resp: 57011
Ion Ratio Lower Upper
74 100
45 93.4 46.7 140.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.495 ug/l

RT: 4.353 min Scan# 408

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Instrument :

MSVOA_N

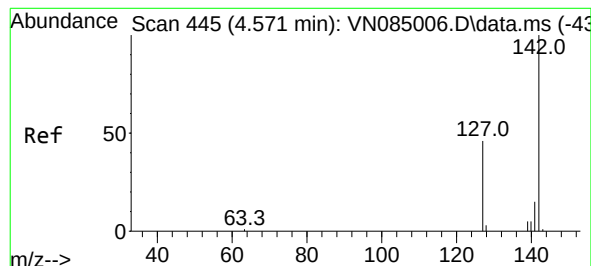
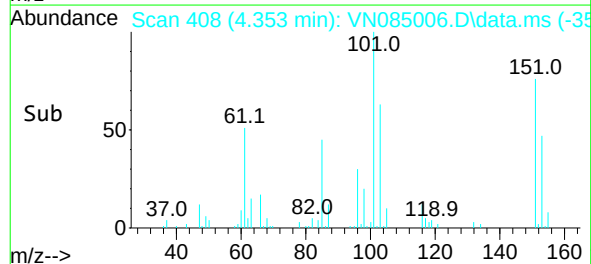
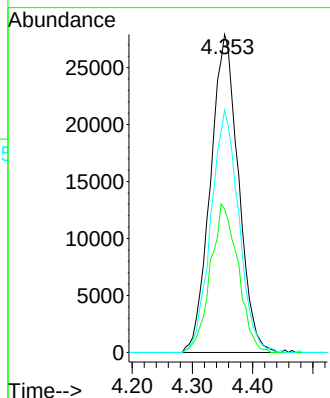
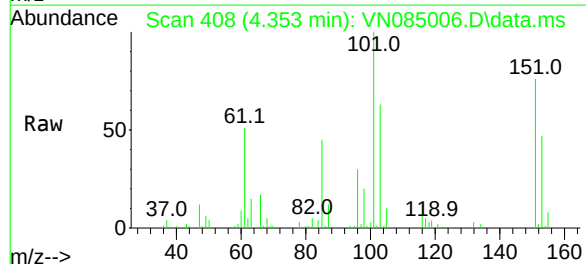
ClientSampleId :

VSTDICCC050

Tgt Ion:	101	Resp:	90080
Ion Ratio	Lower	Upper	
101	100		
85	46.1	36.9	55.3
151	76.0	60.8	91.2

Manual Integrations
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Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#10

Methyl Iodide

Concen: 49.653 ug/l

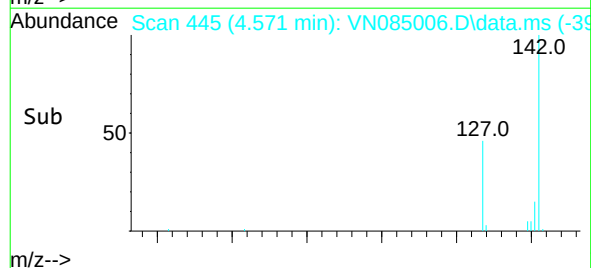
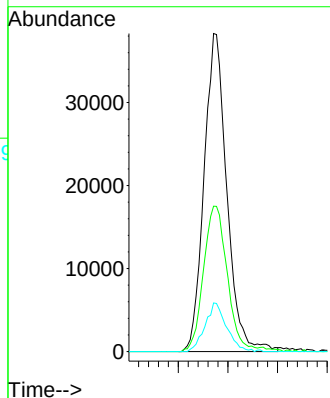
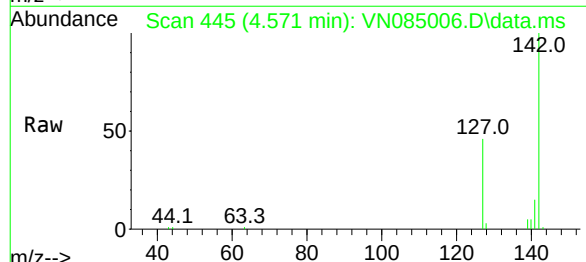
RT: 4.571 min Scan# 445

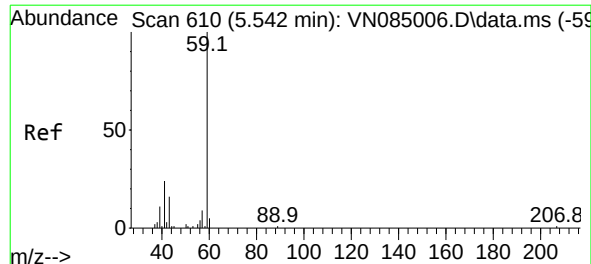
Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Tgt Ion:	142	Resp:	122086
Ion Ratio	Lower	Upper	
142	100		
127	45.7	36.6	54.8
141	15.3	12.2	18.4





#11

Tert butyl alcohol

Concen: 237.049 ug/l

RT: 5.542 min Scan# 610

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Tgt Ion: 59 Resp: 73708

Ion Ratio Lower Upper

59 100

57 9.2 7.4 11.0

Instrument :

MSVOA_N

ClientSampleId :

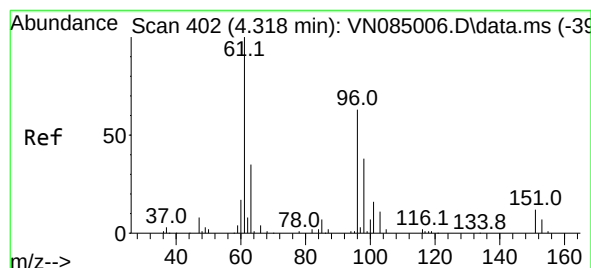
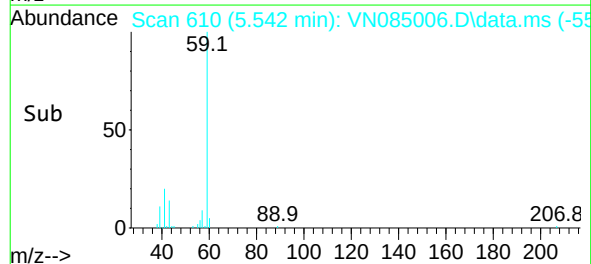
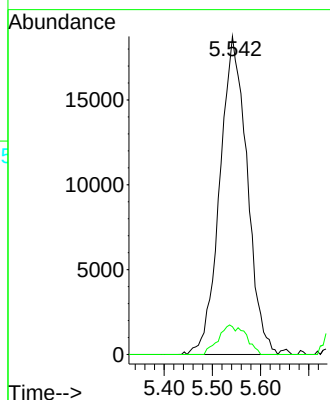
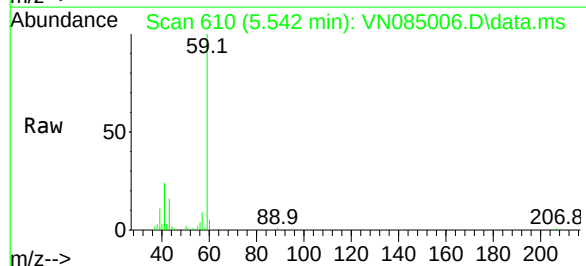
VSTDICCC050

Manual Integrations

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Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#12

1,1-Dichloroethene

Concen: 49.324 ug/l

RT: 4.318 min Scan# 402

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

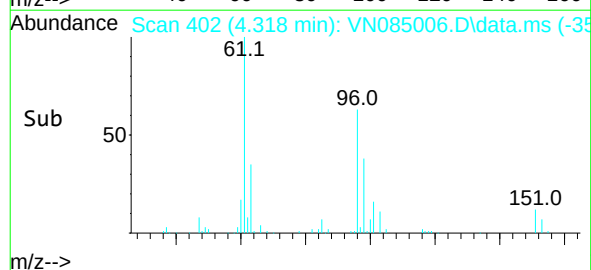
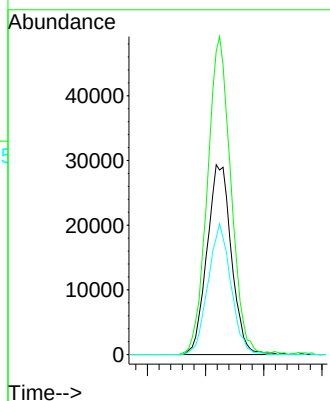
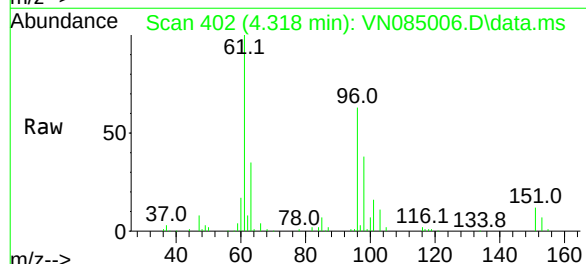
Tgt Ion: 96 Resp: 85520

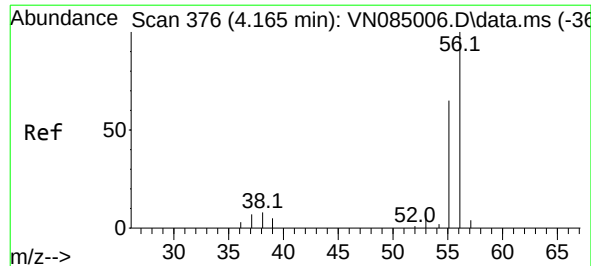
Ion Ratio Lower Upper

96 100

61 159.8 127.8 191.8

98 61.5 49.2 73.8





#13

Acrolein

Concen: 275.201 ug/l

RT: 4.165 min Scan# 376

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 57099

Ion Ratio Lower Upper

56 100

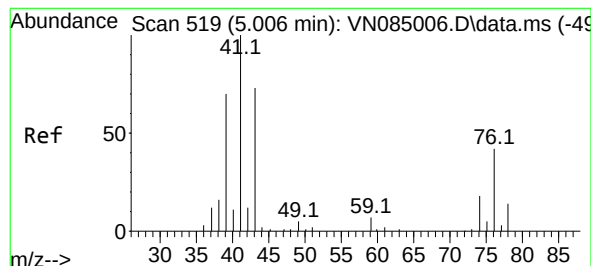
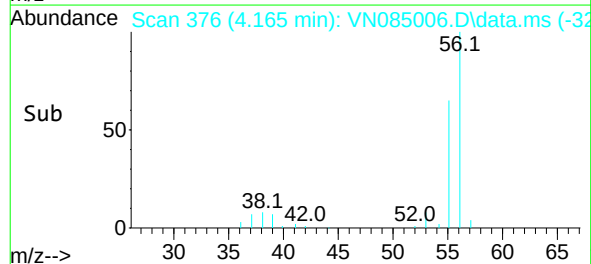
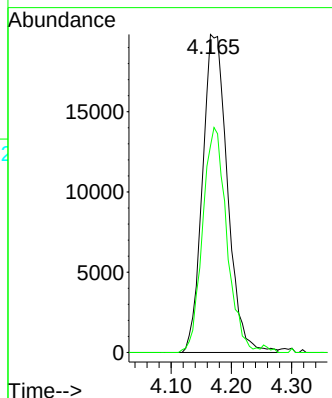
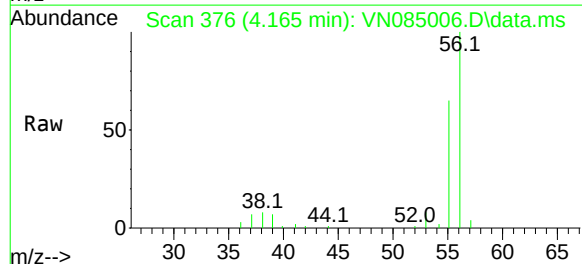
55 68.1 54.5 81.7

Manual Integrations

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Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#14

Allyl chloride

Concen: 49.531 ug/l

RT: 5.006 min Scan# 519

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

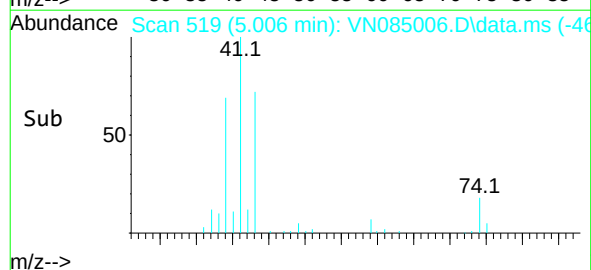
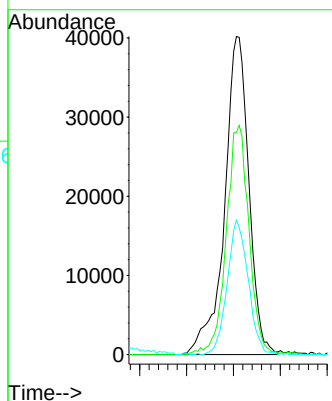
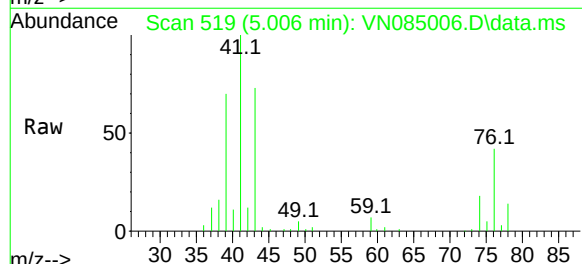
Tgt Ion: 41 Resp: 144773

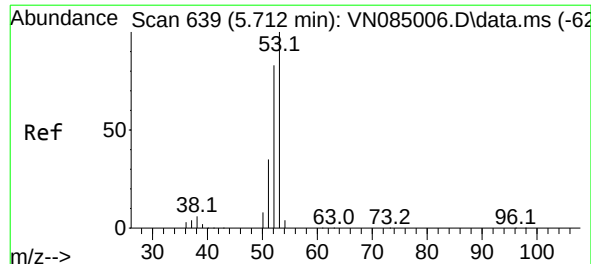
Ion Ratio Lower Upper

41 100

39 67.3 53.8 80.8

76 36.6 29.3 43.9





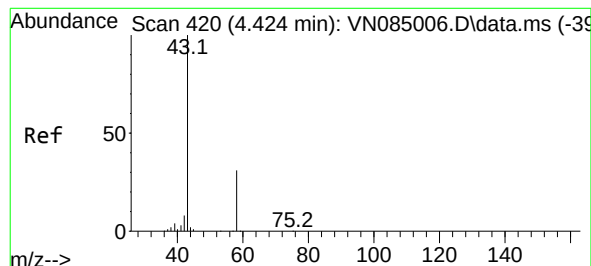
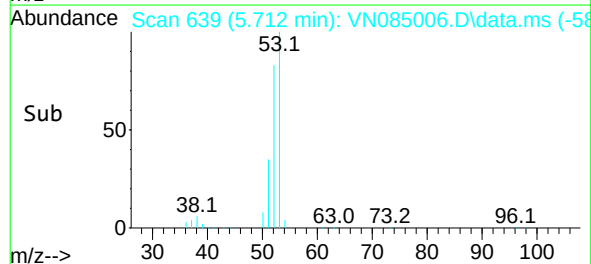
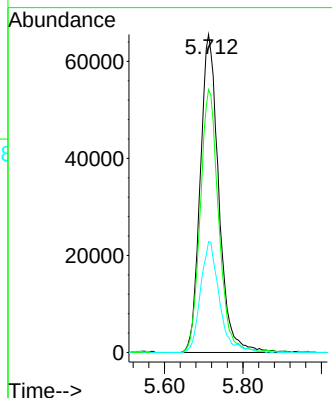
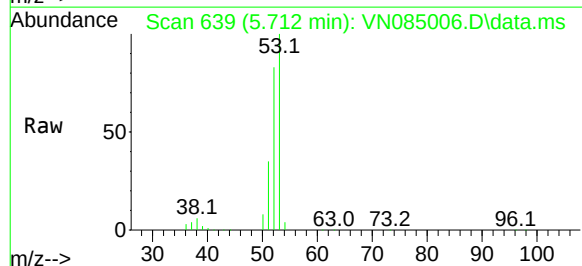
#15
Acrylonitrile
Concen: 243.910 ug/l
RT: 5.712 min Scan# 639
Delta R.T. 0.000 min
Lab File: VN085006.D
Acq: 22 Nov 2024 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion	53	Resp	214719
Ion Ratio	100	Lower	Upper
53	100		
52	81.9	65.5	98.3
51	35.5	28.4	42.6

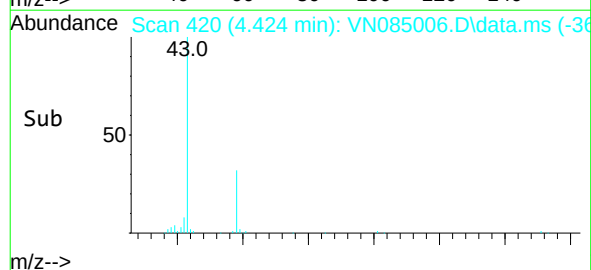
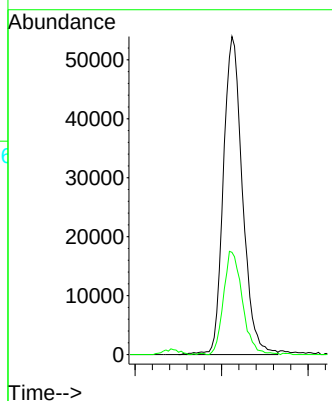
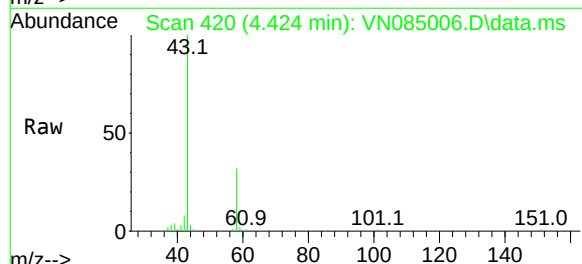
Manual Integrations
APPROVED

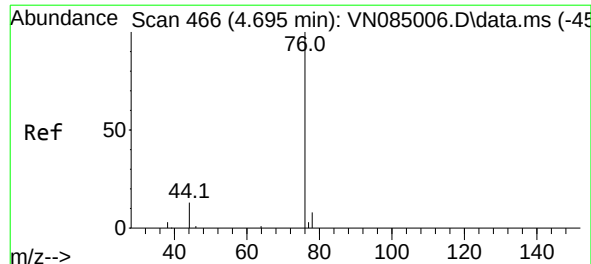
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#16
Acetone
Concen: 244.384 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.000 min
Lab File: VN085006.D
Acq: 22 Nov 2024 11:46

Tgt Ion	43	Resp	165611
Ion Ratio	100	Lower	Upper
43	100		
58	31.8	25.4	38.2





#17

Carbon Disulfide

Concen: 46.996 ug/l

RT: 4.695 min Scan# 466

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 240507

Ion Ratio Lower Upper

76 100

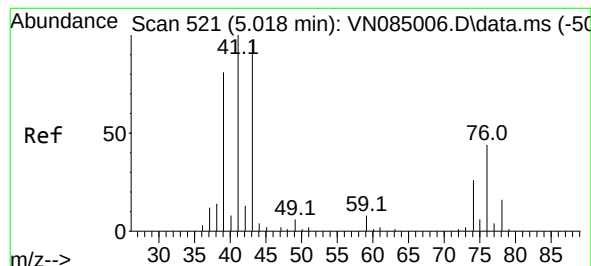
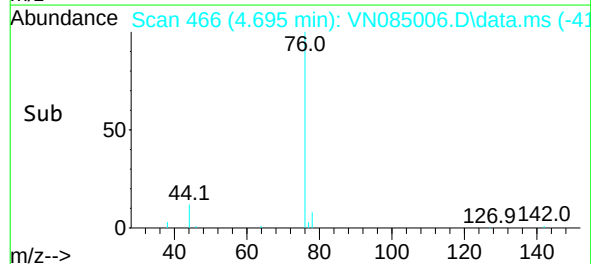
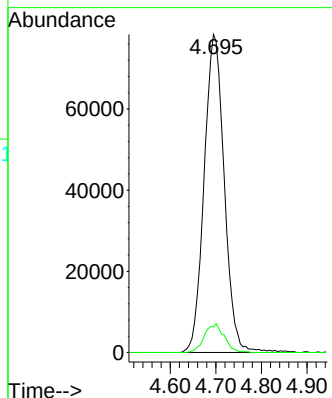
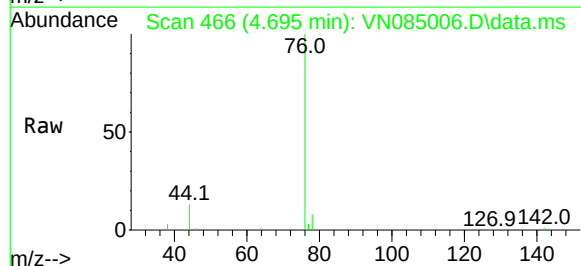
78 8.1 6.5 9.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#18

Methyl Acetate

Concen: 49.436 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN085006.D

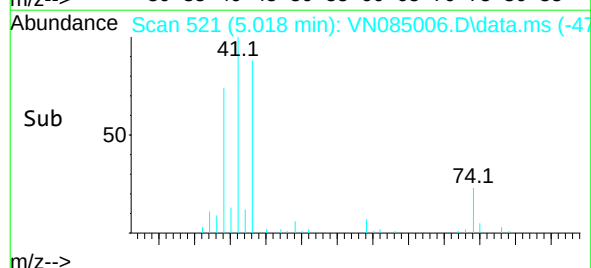
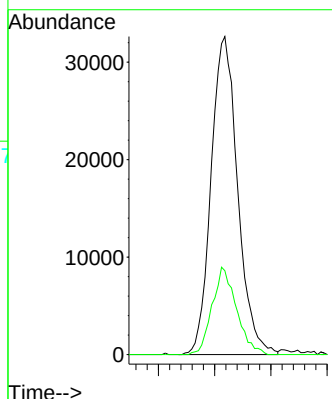
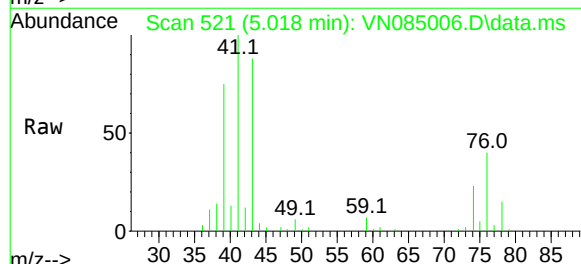
Acq: 22 Nov 2024 11:46

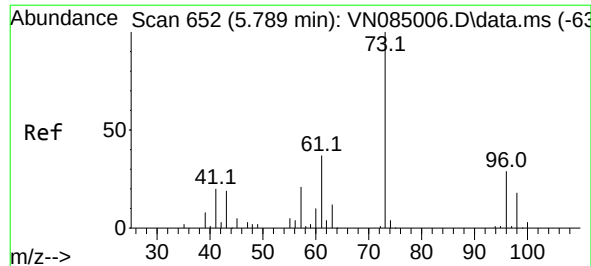
Tgt Ion: 43 Resp: 107105

Ion Ratio Lower Upper

43 100

74 25.1 20.1 30.1





#19

Methyl tert-butyl Ether

Concen: 50.982 ug/l

RT: 5.789 min Scan# 652

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 73 Resp: 288810

Ion Ratio Lower Upper

73 100

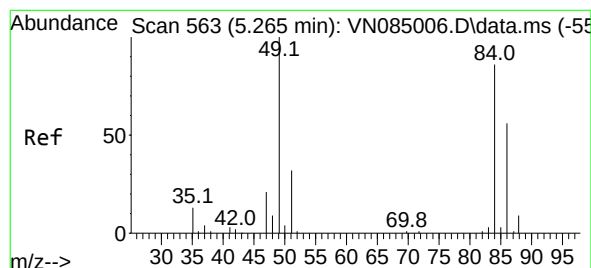
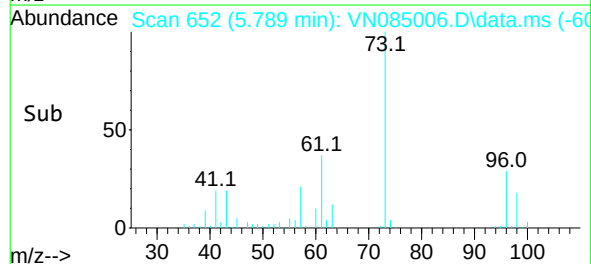
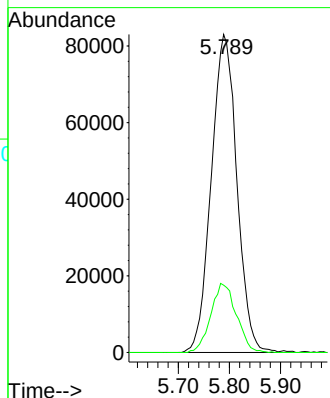
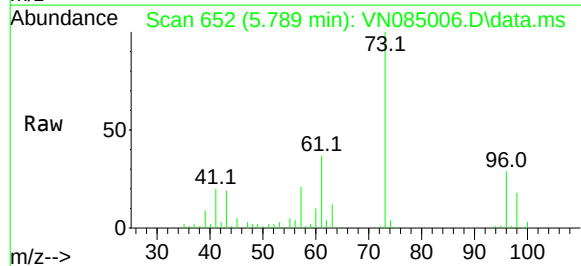
57 21.2 17.0 25.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#20

Methylene Chloride

Concen: 46.464 ug/l

RT: 5.265 min Scan# 563

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Tgt Ion: 84 Resp: 96084

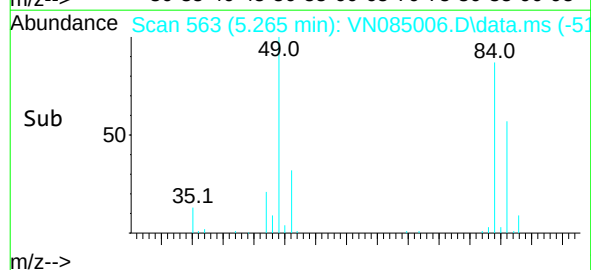
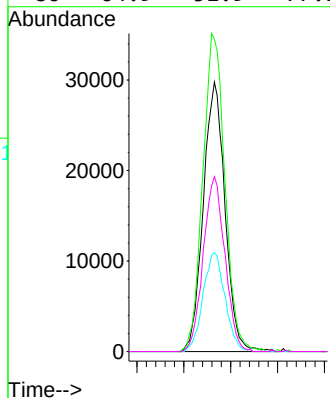
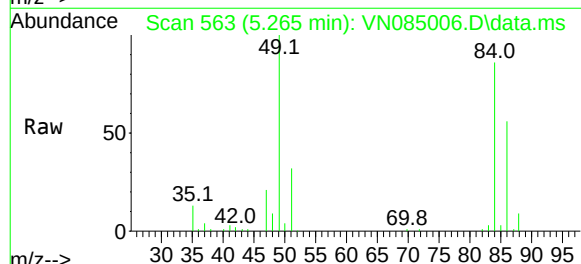
Ion Ratio Lower Upper

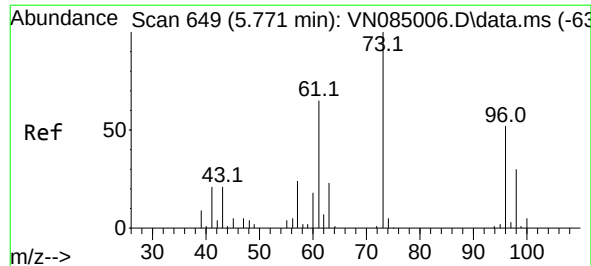
84 100

49 115.9 92.7 139.1

51 36.8 29.4 44.2

86 64.9 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 49.992 ug/l

RT: 5.771 min Scan# 649

Delta R.T. 0.000 min

Lab File: VN085006.D

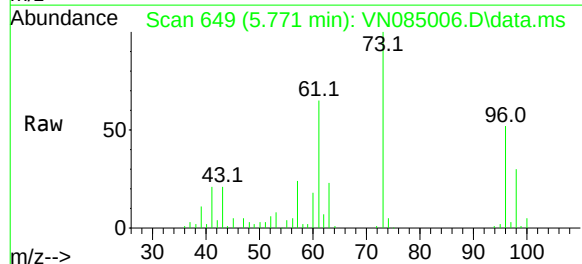
Acq: 22 Nov 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

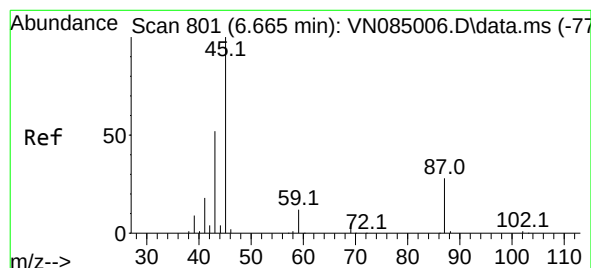
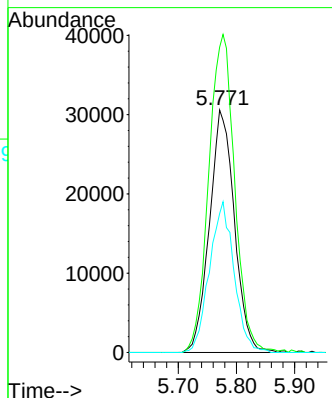
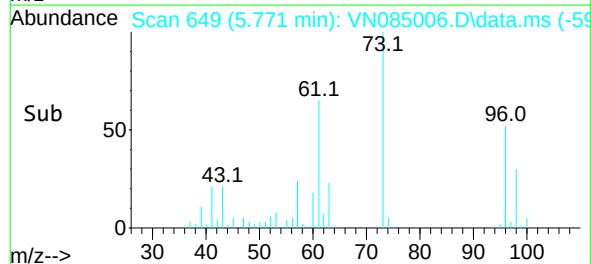
VSTDICCC050



Tgt Ion:	96	Resp:	91214
Ion	Ratio	Lower	Upper
96	100		
61	125.9	100.7	151.1
98	57.2	45.8	68.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#22

Diisopropyl ether

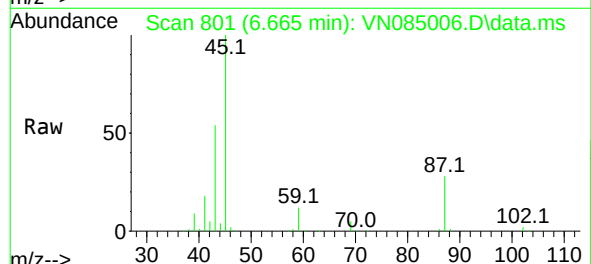
Concen: 49.447 ug/l

RT: 6.665 min Scan# 801

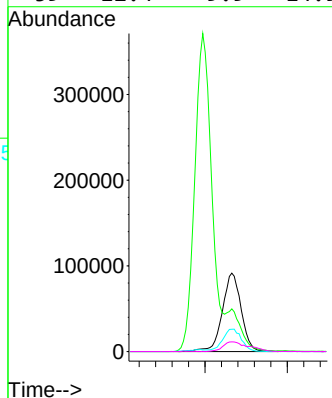
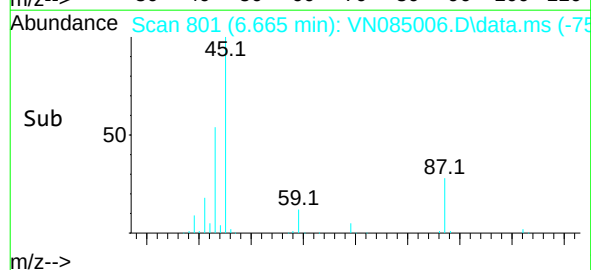
Delta R.T. 0.000 min

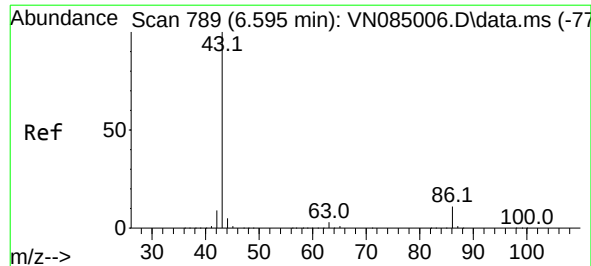
Lab File: VN085006.D

Acq: 22 Nov 2024 11:46



Tgt Ion:	45	Resp:	290883
Ion	Ratio	Lower	Upper
45	100		
43	53.4	42.7	64.1
87	28.3	22.6	34.0
59	12.4	9.9	14.9





#23

Vinyl Acetate

Concen: 260.842 ug/l

RT: 6.595 min Scan# 789

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 1058594

Ion Ratio Lower Upper

43 100

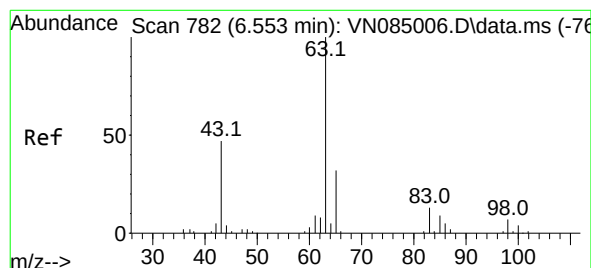
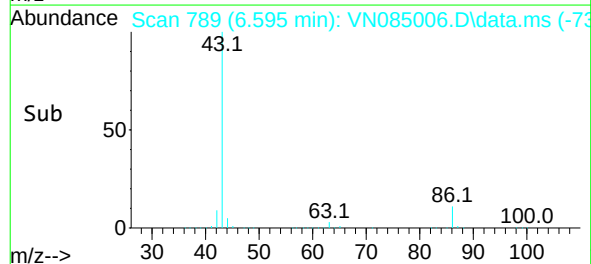
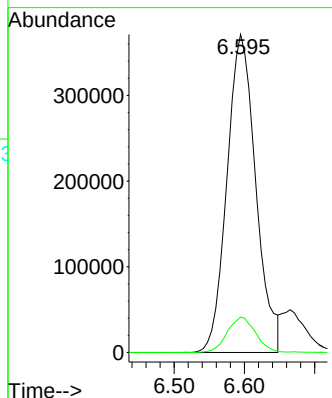
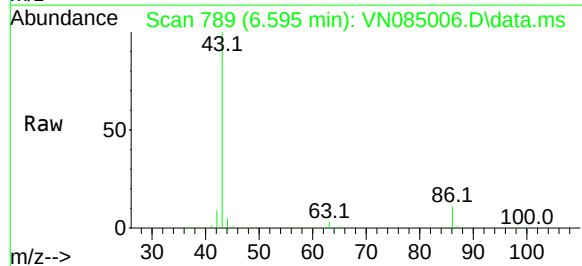
86 11.1 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#24

1,1-Dichloroethane

Concen: 48.684 ug/l

RT: 6.553 min Scan# 782

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

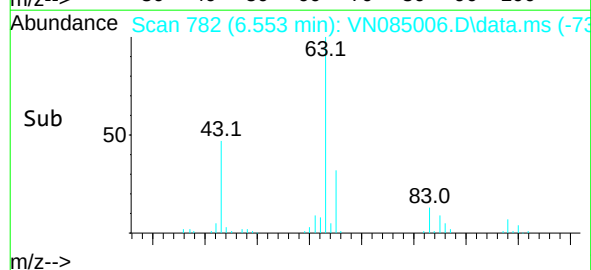
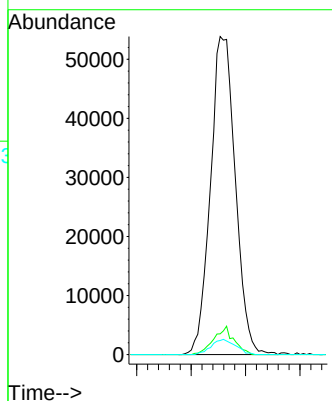
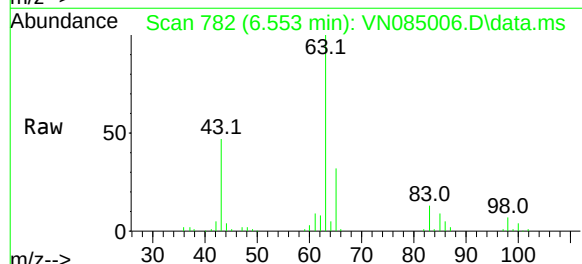
Tgt Ion: 63 Resp: 171385

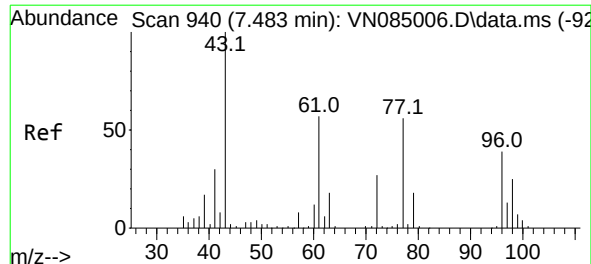
Ion Ratio Lower Upper

63 100

98 6.5 3.3 9.8

100 4.4 2.2 6.6





#25

2-Butanone

Concen: 244.184 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 270539

Ion Ratio Lower Upper

43 100

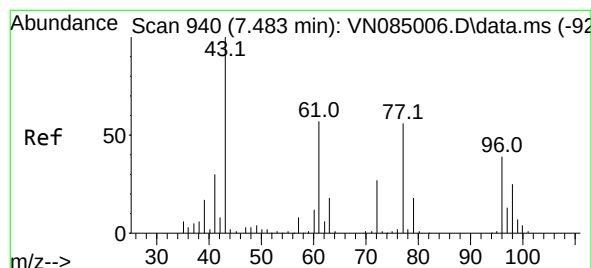
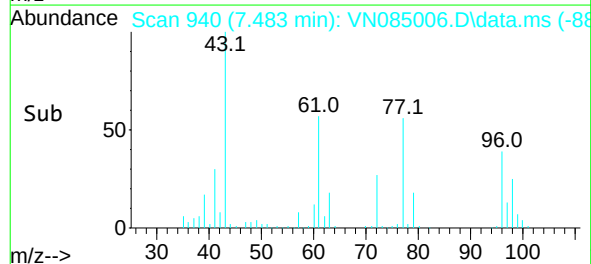
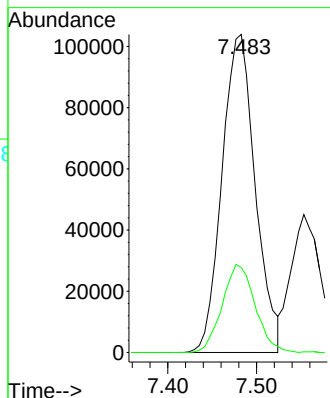
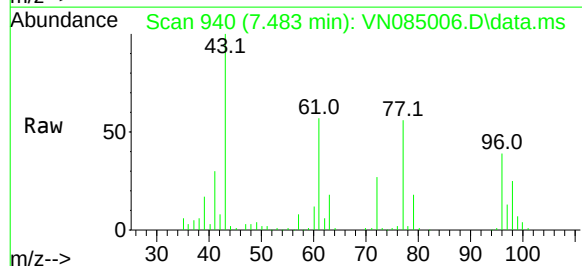
72 26.7 21.4 32.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#26

2,2-Dichloropropane

Concen: 49.367 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN085006.D

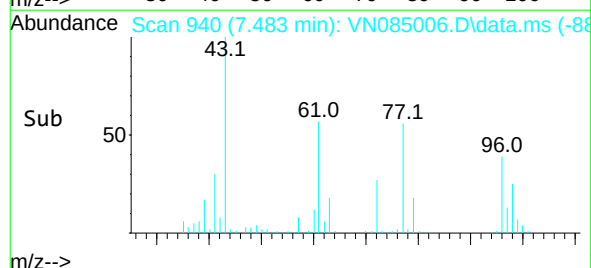
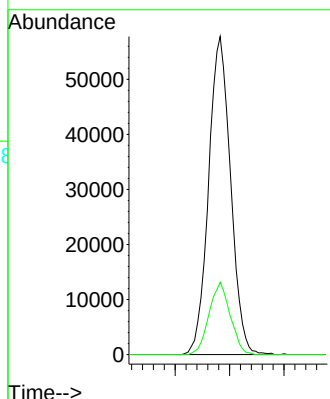
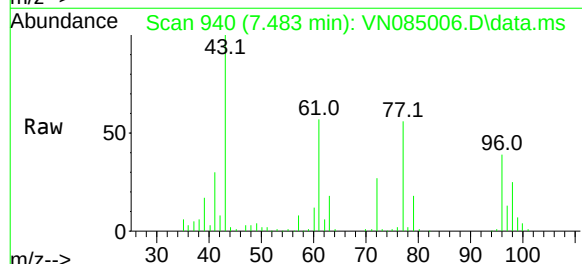
Acq: 22 Nov 2024 11:46

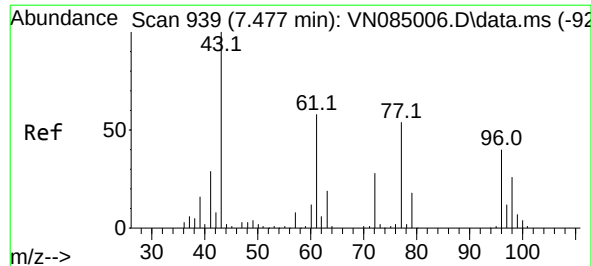
Tgt Ion: 77 Resp: 162280

Ion Ratio Lower Upper

77 100

97 21.8 10.9 32.7





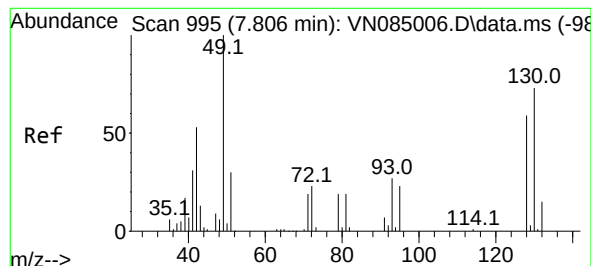
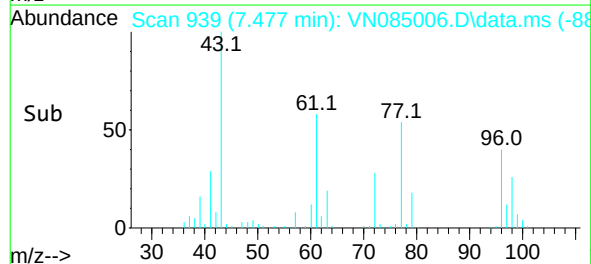
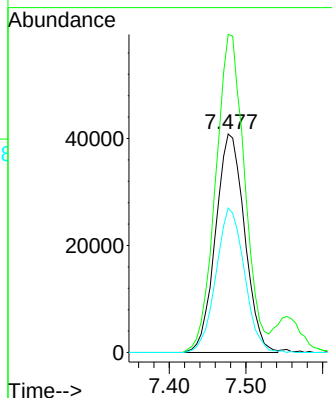
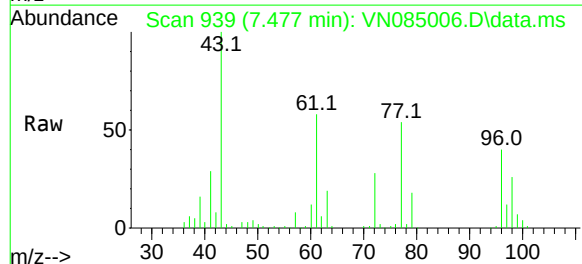
#27
cis-1,2-Dichloroethene
Concen: 48.796 ug/l
RT: 7.477 min Scan# 939
Delta R.T. 0.000 min
Lab File: VN085006.D
Acq: 22 Nov 2024 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 107332
Ion Ratio Lower Upper
96 100
61 145.8 0.0 291.6
98 64.9 0.0 129.8

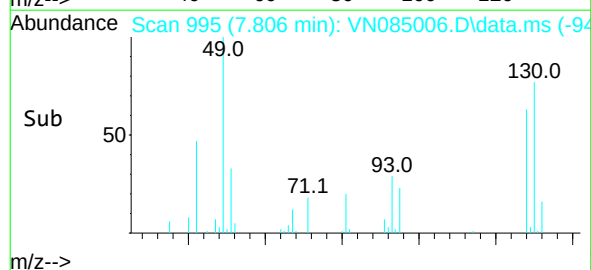
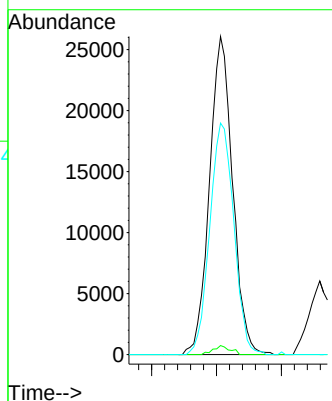
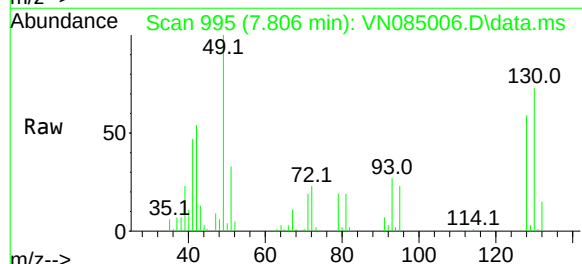
Manual Integrations
APPROVED

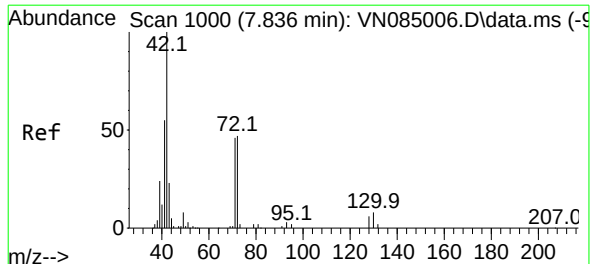
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#28
Bromochloromethane
Concen: 48.597 ug/l
RT: 7.806 min Scan# 995
Delta R.T. 0.000 min
Lab File: VN085006.D
Acq: 22 Nov 2024 11:46

Tgt Ion: 49 Resp: 64580
Ion Ratio Lower Upper
49 100
129 2.0 0.0 4.0
130 75.7 60.6 90.8





#29

Tetrahydrofuran

Concen: 254.088 ug/l

RT: 7.836 min Scan# 1000

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 42 Resp: 175063

Ion Ratio Lower Upper

42 100

72 46.2 37.0 55.4

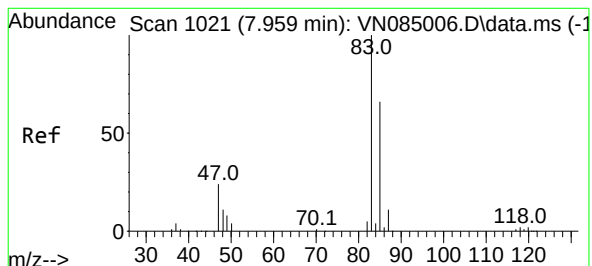
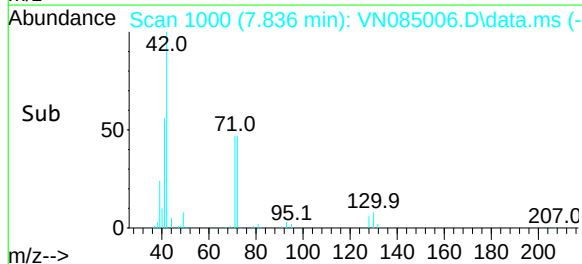
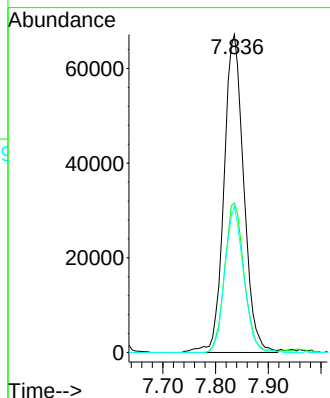
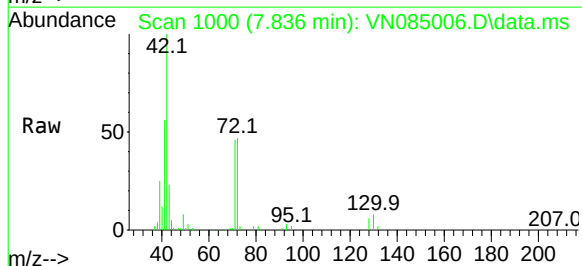
71 43.7 35.0 52.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#30

Chloroform

Concen: 47.921 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. 0.000 min

Lab File: VN085006.D

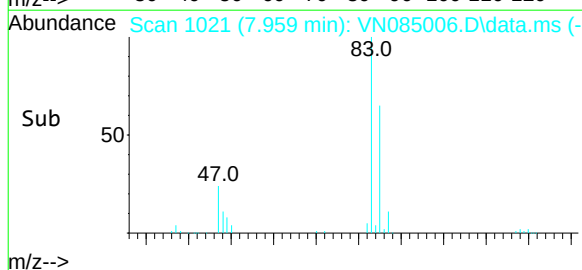
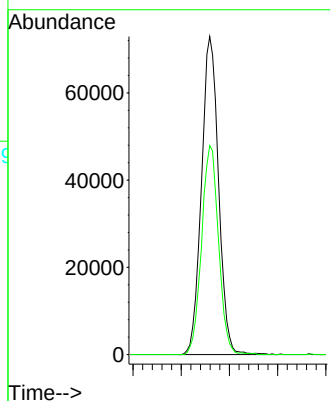
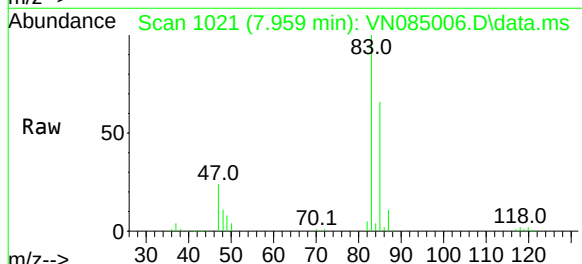
Acq: 22 Nov 2024 11:46

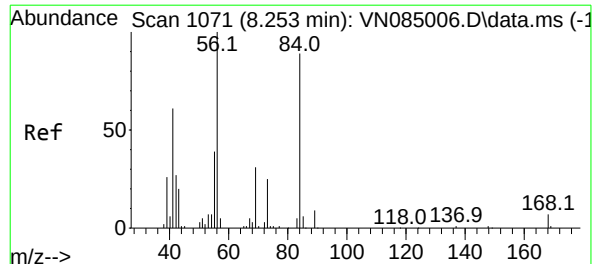
Tgt Ion: 83 Resp: 179452

Ion Ratio Lower Upper

83 100

85 65.7 52.6 78.8





#31

Cyclohexane

Concen: 46.504 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 144139

Ion Ratio Lower Upper

56 100

69 30.7 24.6 36.8

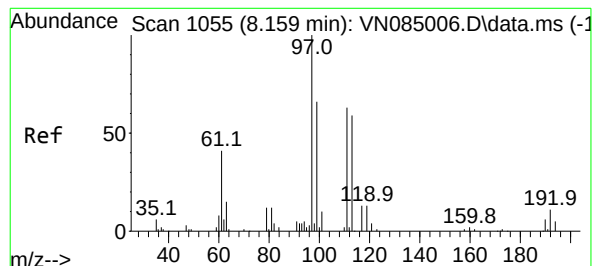
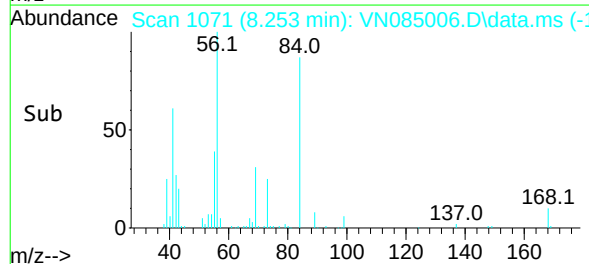
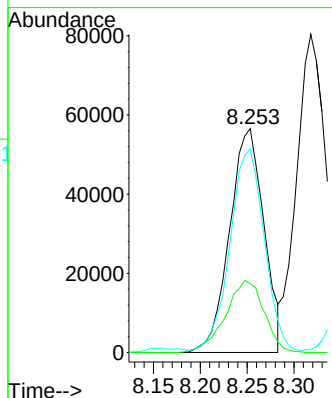
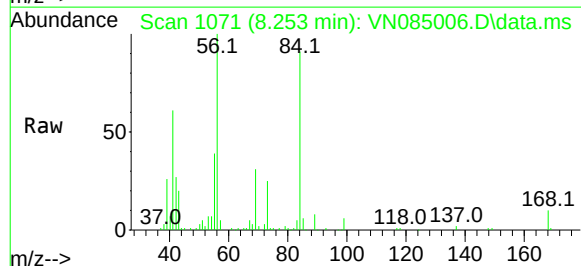
84 89.3 71.4 107.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#32

1,1,1-Trichloroethane

Concen: 48.900 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

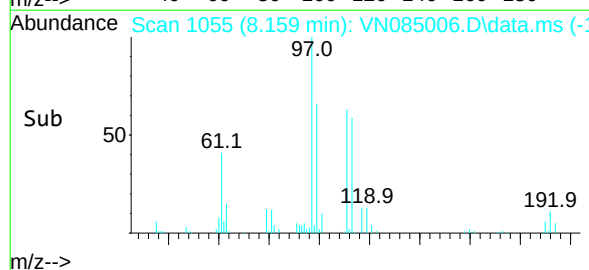
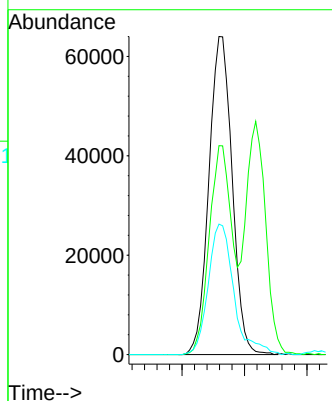
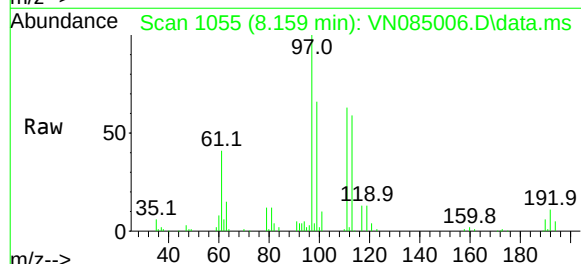
Tgt Ion: 97 Resp: 165474

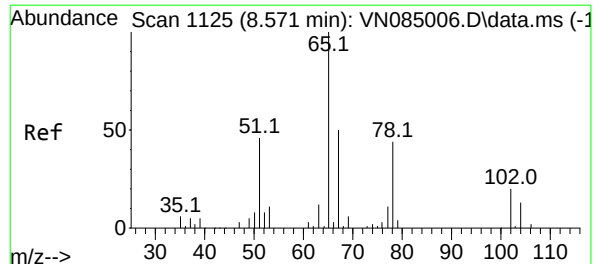
Ion Ratio Lower Upper

97 100

99 63.7 51.0 76.4

61 45.2 36.2 54.2





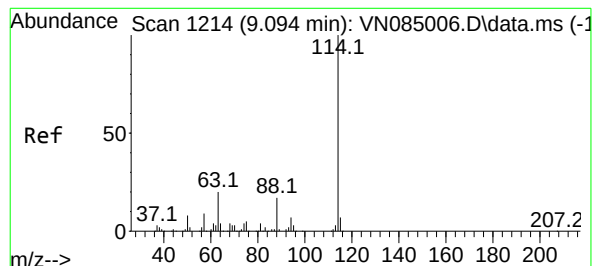
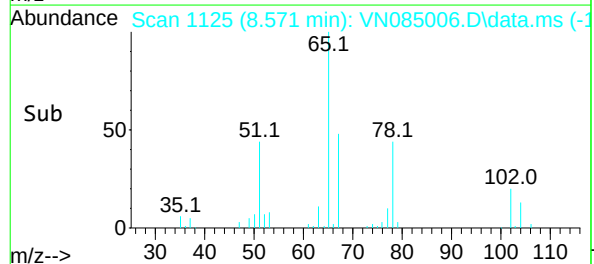
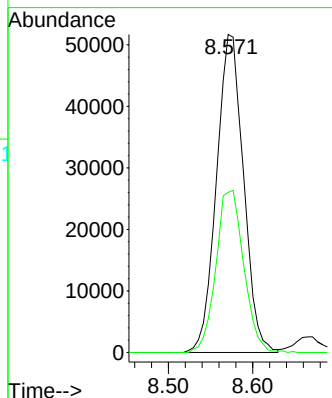
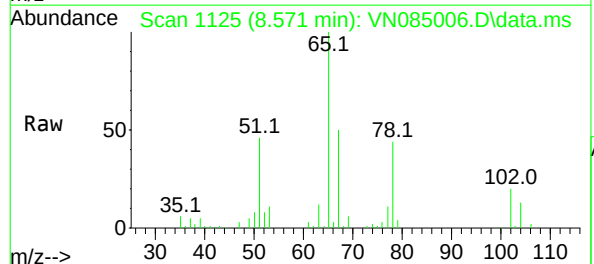
#33
1,2-Dichloroethane-d4
Concen: 49.528 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. 0.000 min
Lab File: VN085006.D
Acq: 22 Nov 2024 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 65 Resp: 115244
Ion Ratio Lower Upper
65 100
67 52.5 0.0 105.0

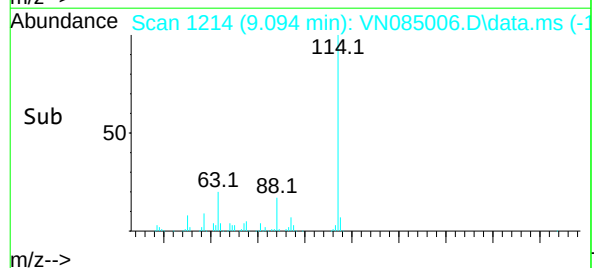
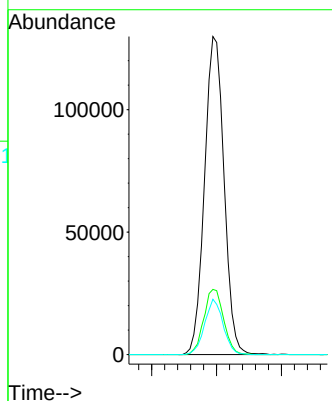
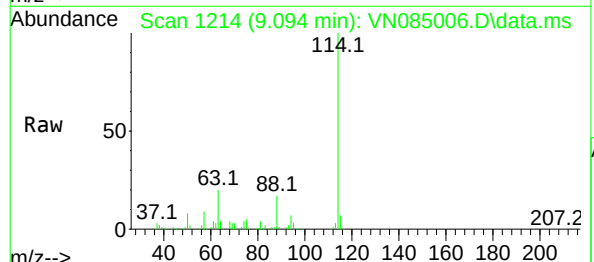
Manual Integrations
APPROVED

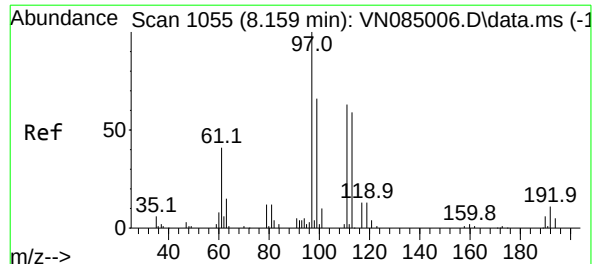
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. 0.000 min
Lab File: VN085006.D
Acq: 22 Nov 2024 11:46

Tgt Ion:114 Resp: 271467
Ion Ratio Lower Upper
114 100
63 20.5 0.0 41.0
88 17.4 0.0 34.8





#35

Dibromofluoromethane

Concen: 50.417 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 113 Resp: 92297

Ion Ratio Lower Upper

113 100

111 102.5 82.0 123.0

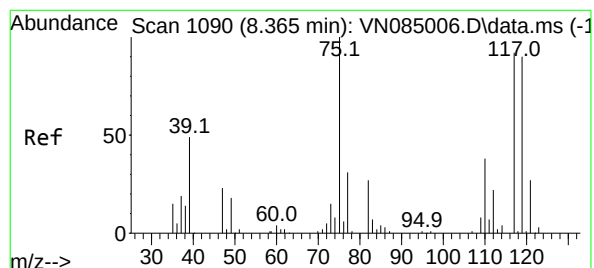
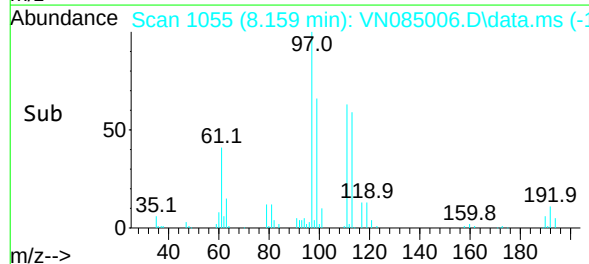
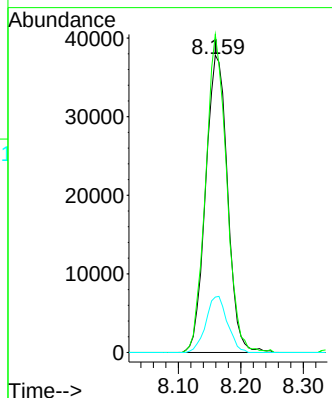
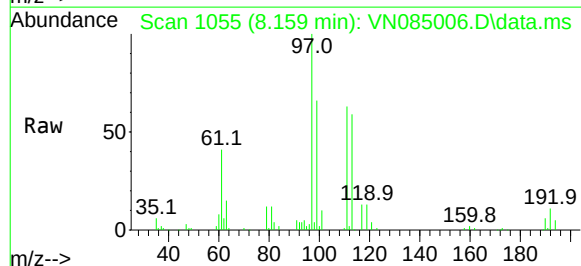
192 18.5 14.8 22.2

Manual Integrations

APPROVED

Reviewed By : John Carlone 11/25/2024

Supervised By : Mahesh Dadoda 11/25/2024



#36

1,1-Dichloropropene

Concen: 49.822 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

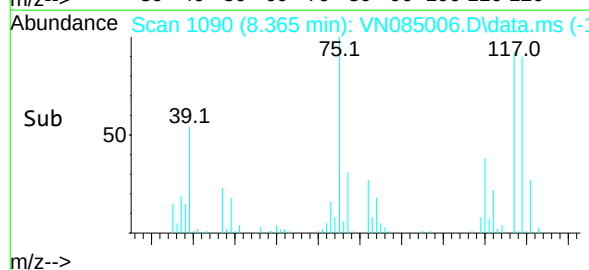
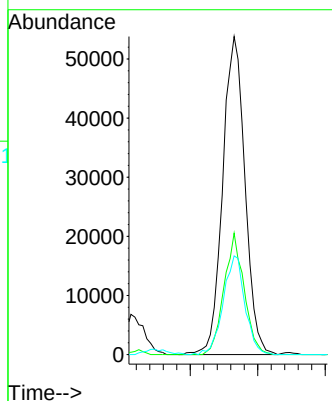
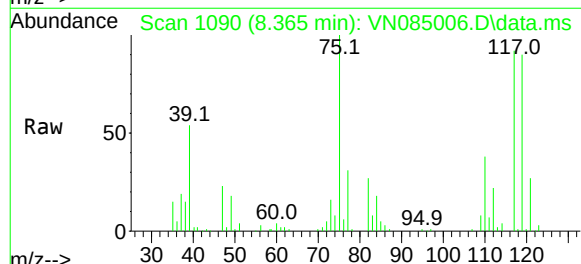
Tgt Ion: 75 Resp: 123540

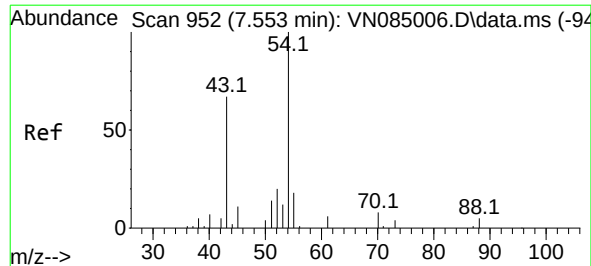
Ion Ratio Lower Upper

75 100

110 34.4 17.2 51.6

77 30.3 24.2 36.4





#37

Ethyl Acetate

Concen: 48.484 ug/l

RT: 7.553 min Scan# 952

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Instrument :

MSVOA_N

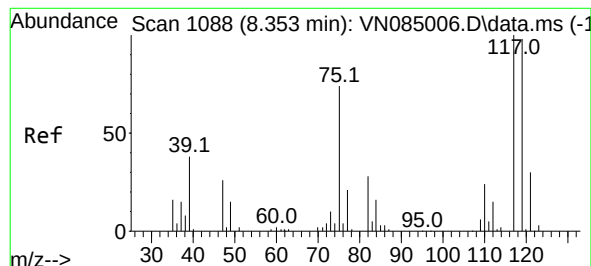
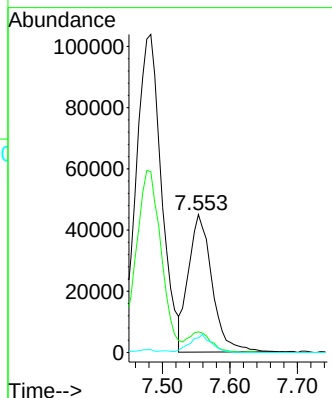
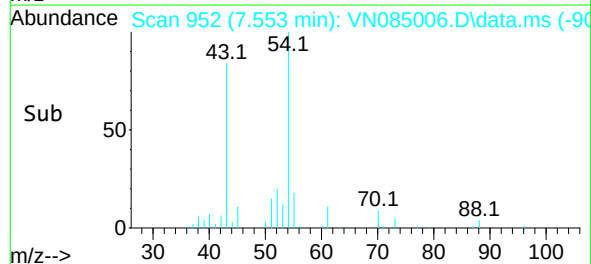
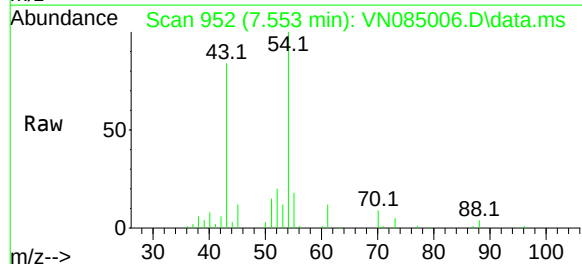
ClientSampleId :

VSTDICCC050

Tgt Ion:	43	Resp:	109296
Ion	Ratio	Lower	Upper
43	100		
61	14.6	11.7	17.5
70	11.6	9.3	13.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#38

Carbon Tetrachloride

Concen: 50.624 ug/l

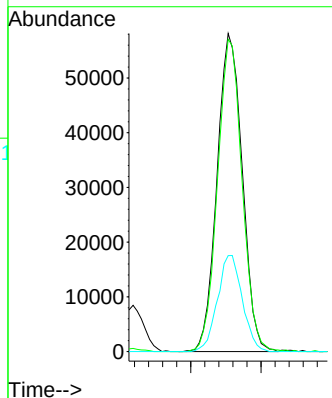
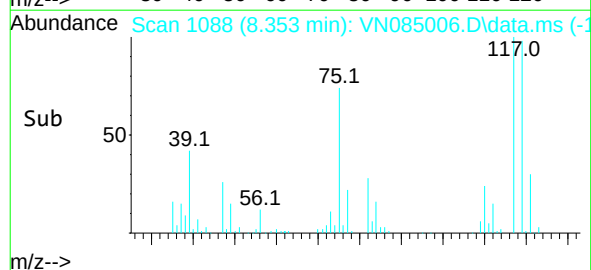
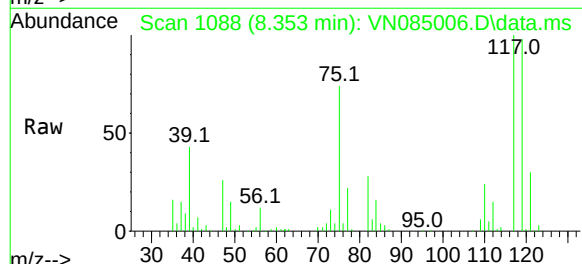
RT: 8.353 min Scan# 1088

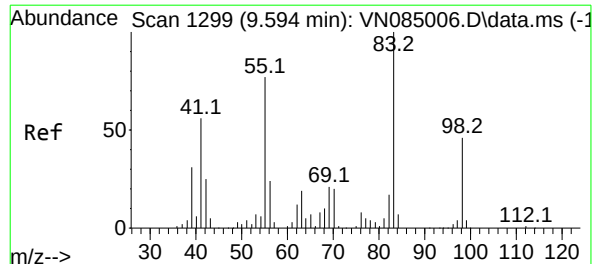
Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Tgt Ion:	117	Resp:	144897
Ion	Ratio	Lower	Upper
117	100		
119	98.2	78.6	117.8
121	30.2	24.2	36.2





#39

Methylcyclohexane

Concen: 53.395 ug/l

RT: 9.594 min Scan# 1299

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 137583

Ion Ratio Lower Upper

83 100

55 77.2 61.8 92.6

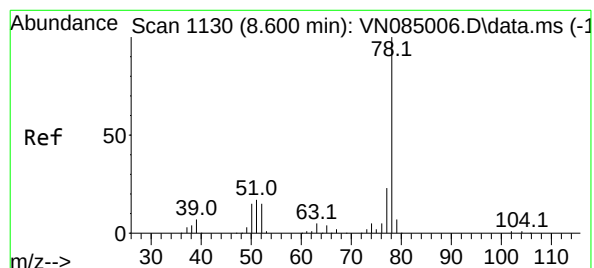
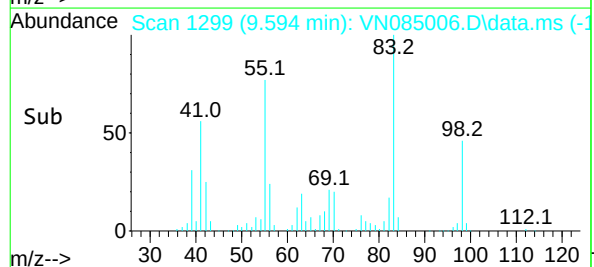
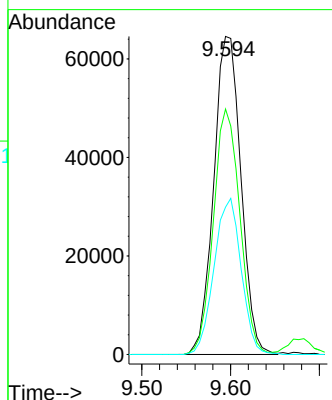
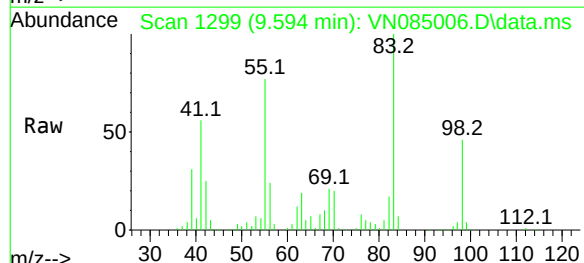
98 46.3 37.0 55.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#40

Benzene

Concen: 49.297 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN085006.D

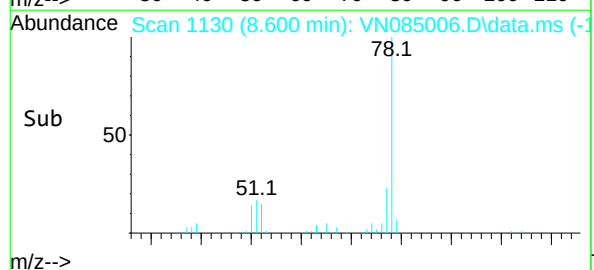
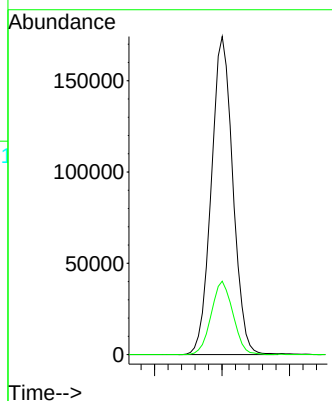
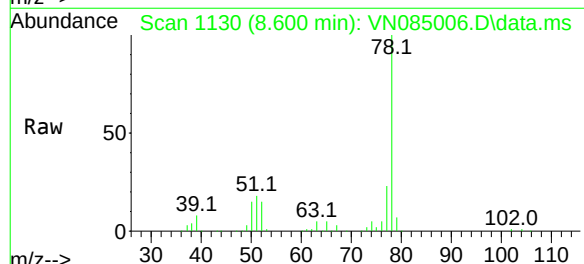
Acq: 22 Nov 2024 11:46

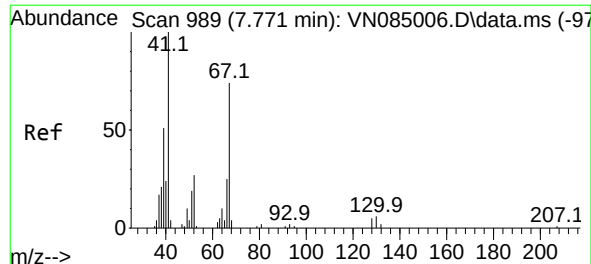
Tgt Ion: 78 Resp: 386616

Ion Ratio Lower Upper

78 100

77 23.1 18.5 27.7





#41

Methacrylonitrile

Concen: 50.102 ug/l

RT: 7.771 min Scan# 989

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 41 Resp: 62534

Ion Ratio Lower Upper

41 100

39 53.2 42.6 63.8

67 74.9 59.9 89.9

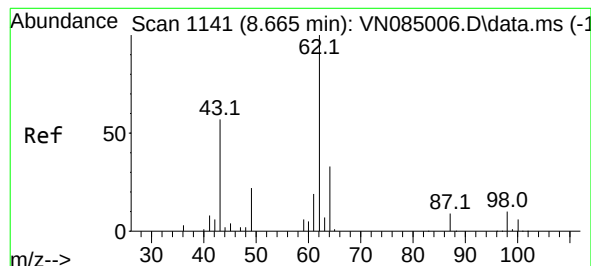
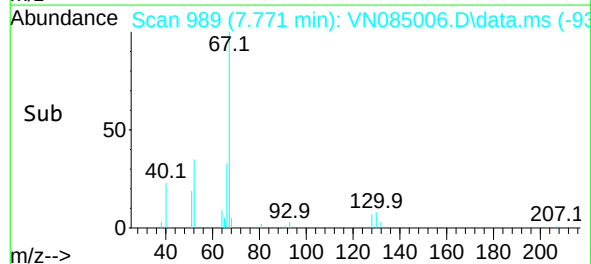
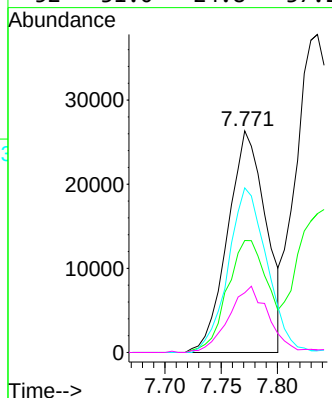
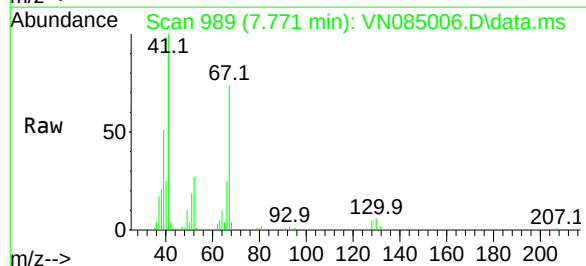
52 31.0 24.8 37.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#42

1,2-Dichloroethane

Concen: 48.616 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. 0.000 min

Lab File: VN085006.D

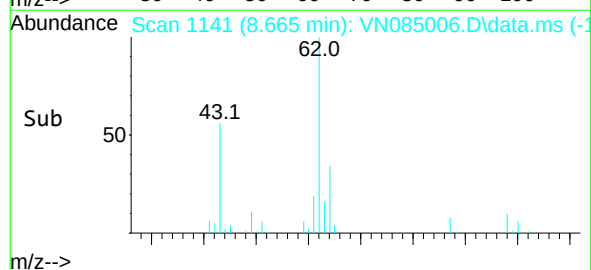
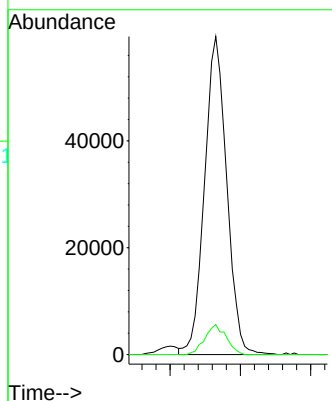
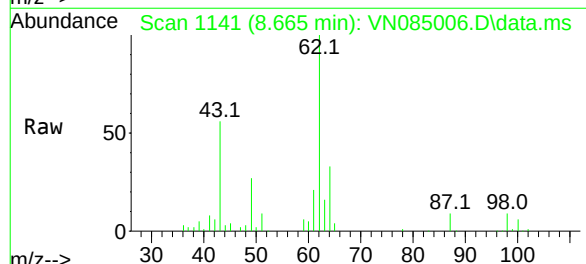
Acq: 22 Nov 2024 11:46

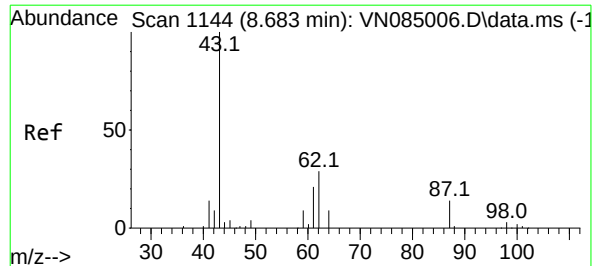
Tgt Ion: 62 Resp: 130440

Ion Ratio Lower Upper

62 100

98 9.1 0.0 18.2





#43

Isopropyl Acetate

Concen: 43.670 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

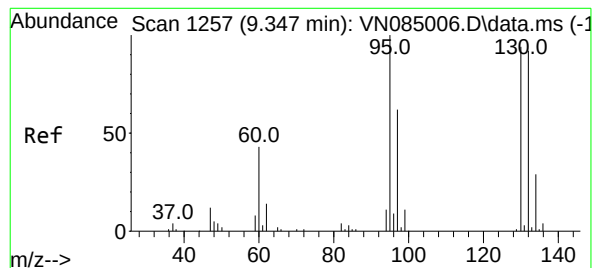
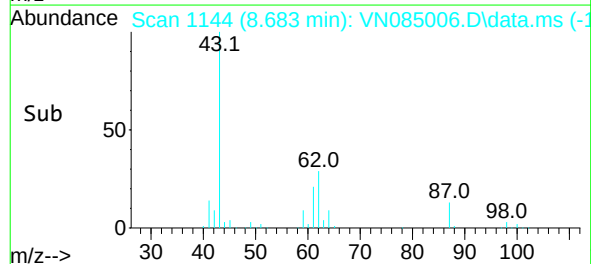
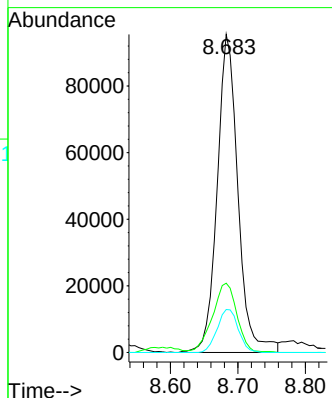
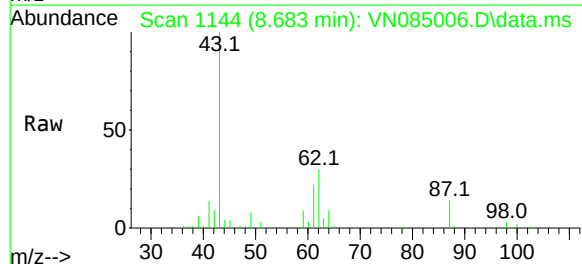
VSTDICCC050

Tgt Ion:	43	Resp:	204483
Ion	Ratio	Lower	Upper
43	100		
61	25.7	20.6	30.8
87	13.7	11.0	16.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#44

Trichloroethene

Concen: 48.692 ug/l

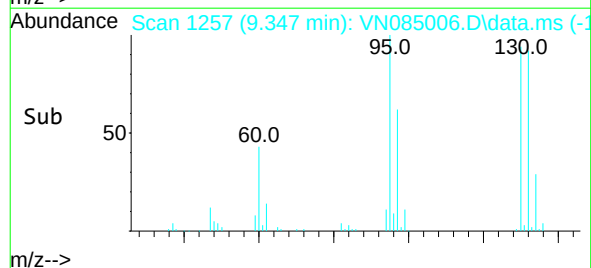
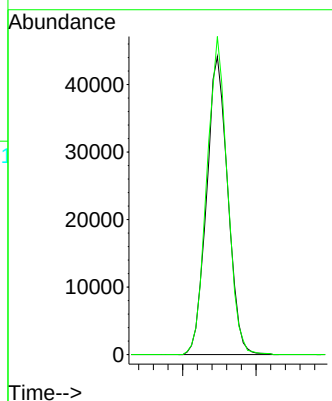
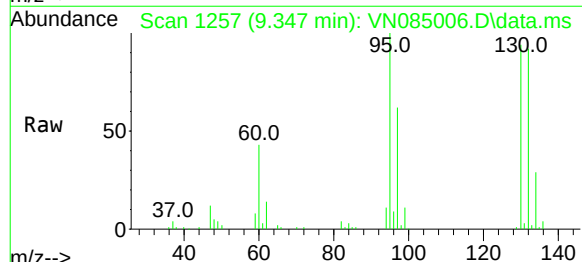
RT: 9.347 min Scan# 1257

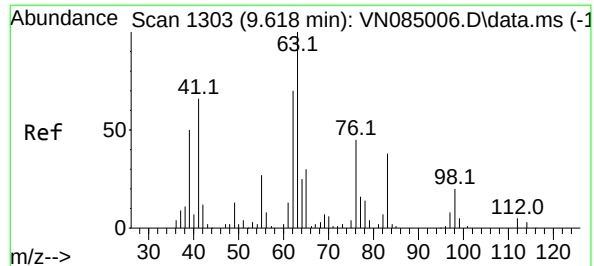
Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Tgt Ion:	130	Resp:	88746
Ion	Ratio	Lower	Upper
130	100		
95	106.7	0.0	213.4





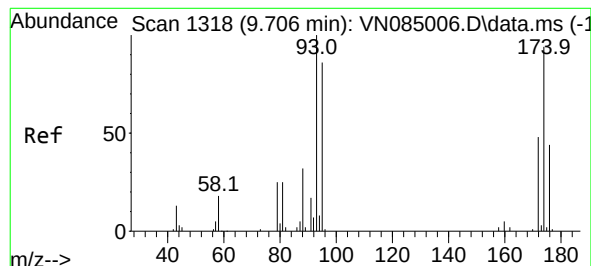
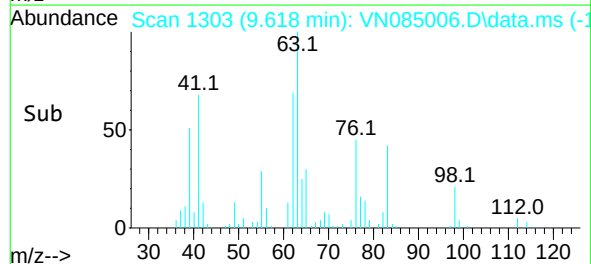
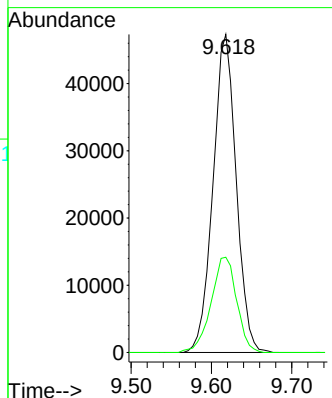
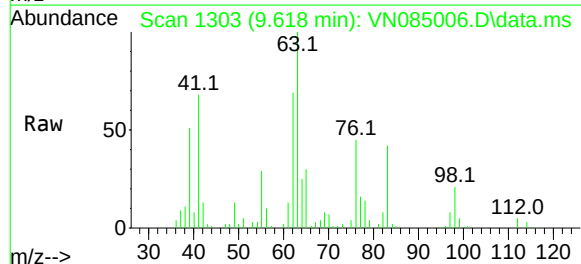
#45
1,2-Dichloropropane
Concen: 49.013 ug/l
RT: 9.618 min Scan# 1303
Delta R.T. 0.000 min
Lab File: VN085006.D
Acq: 22 Nov 2024 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 63 Resp: 94677
Ion Ratio Lower Upper
63 100
65 30.0 24.0 36.0

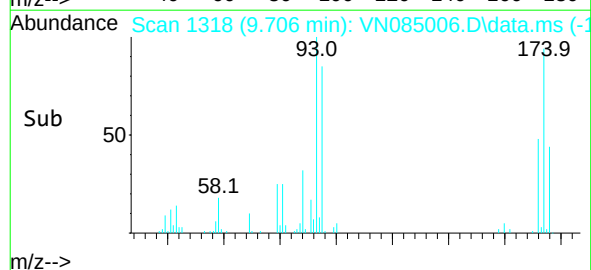
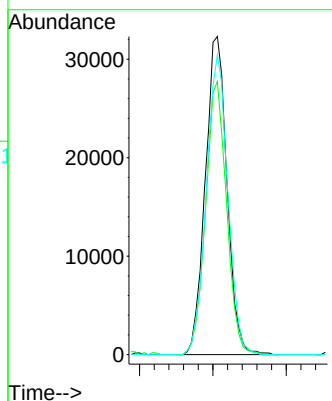
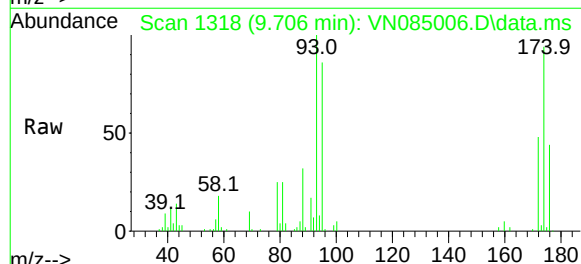
Manual Integrations
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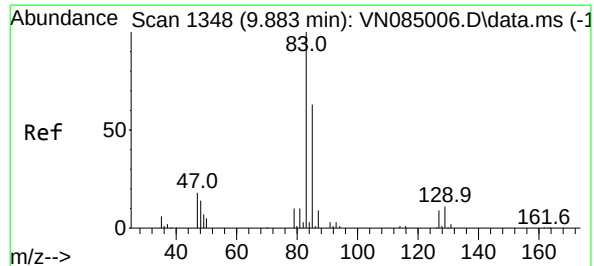
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#46
Dibromomethane
Concen: 49.447 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.000 min
Lab File: VN085006.D
Acq: 22 Nov 2024 11:46

Tgt Ion: 93 Resp: 66370
Ion Ratio Lower Upper
93 100
95 82.8 66.2 99.4
174 93.6 74.9 112.3





#47

Bromodichloromethane

Concen: 49.849 ug/l

RT: 9.883 min Scan# 1348

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 141808

Ion Ratio Lower Upper

83 100

85 63.1 50.5 75.7

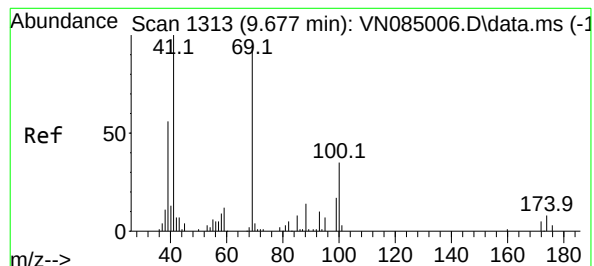
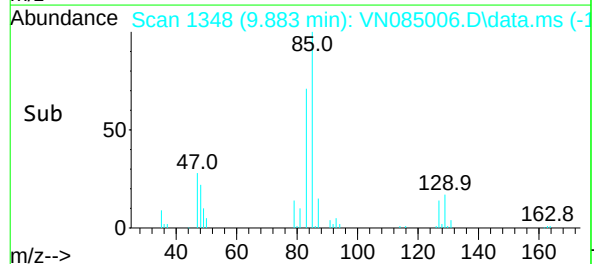
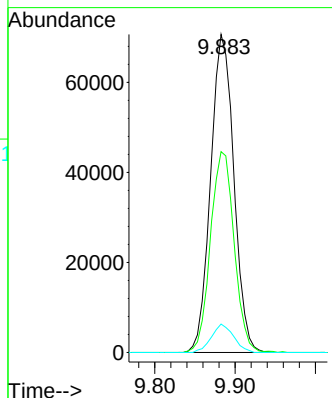
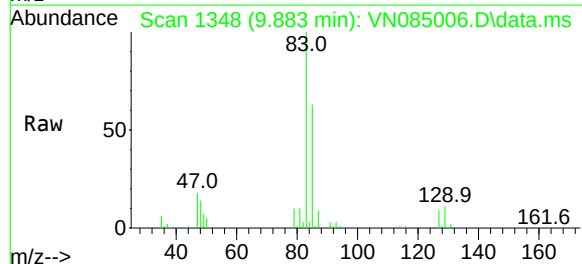
127 8.9 7.1 10.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#48

Methyl methacrylate

Concen: 51.193 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

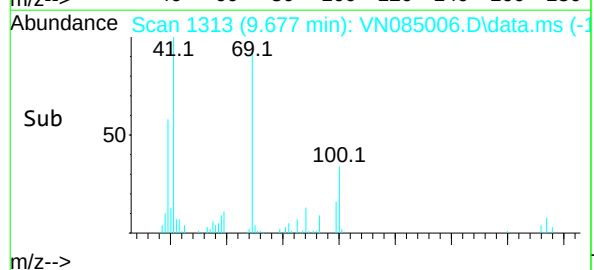
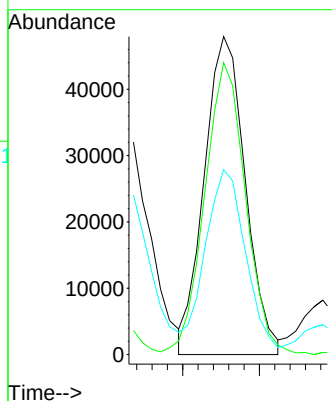
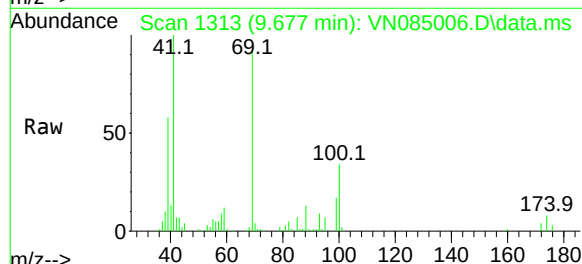
Tgt Ion: 41 Resp: 89202

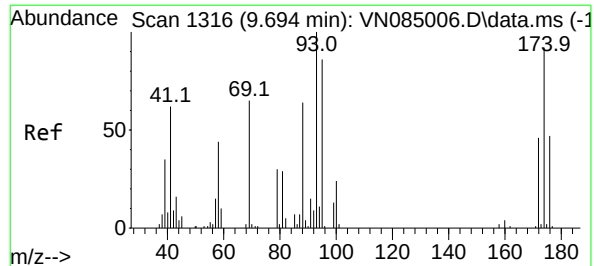
Ion Ratio Lower Upper

41 100

69 91.5 73.2 109.8

39 57.8 46.2 69.4





#49

1,4-Dioxane

Concen: 1044.331 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 88 Resp: 31557

Ion Ratio Lower Upper

88 100

43 20.9 16.7 25.1

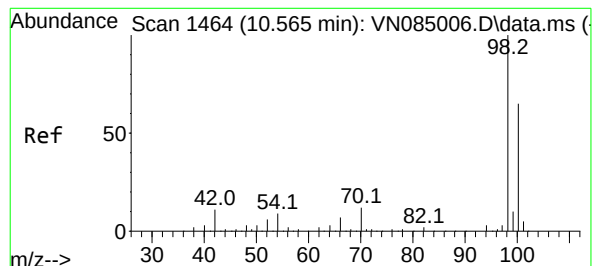
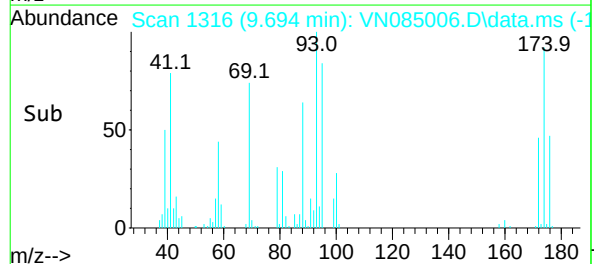
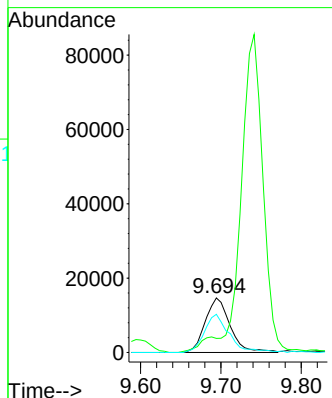
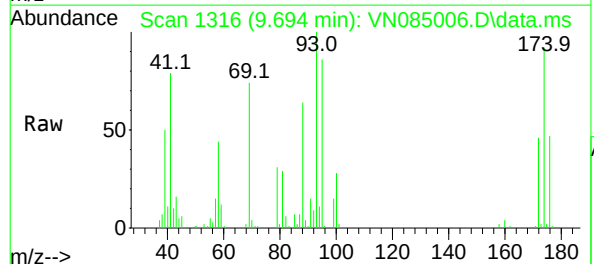
58 70.6 56.5 84.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#50

Toluene-d8

Concen: 51.662 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085006.D

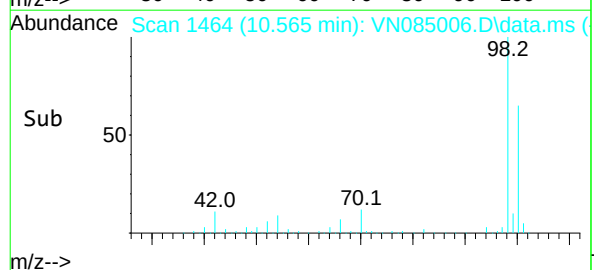
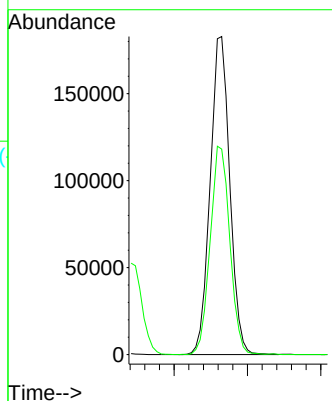
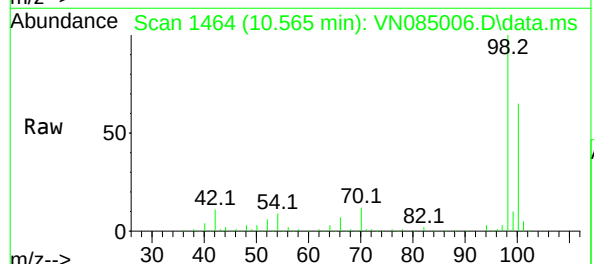
Acq: 22 Nov 2024 11:46

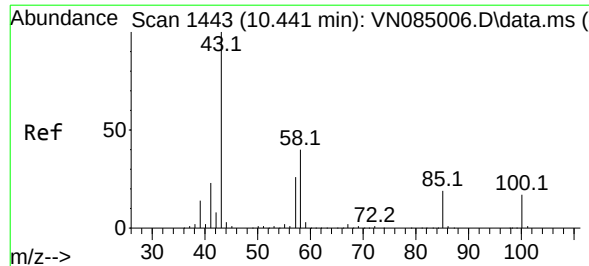
Tgt Ion: 98 Resp: 338938

Ion Ratio Lower Upper

98 100

100 65.6 52.5 78.7





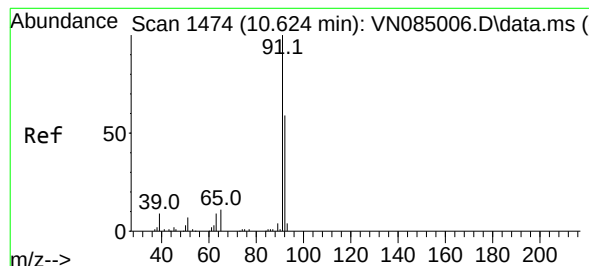
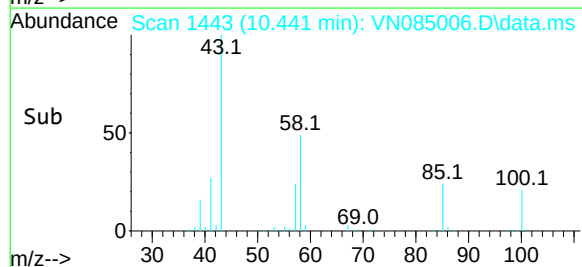
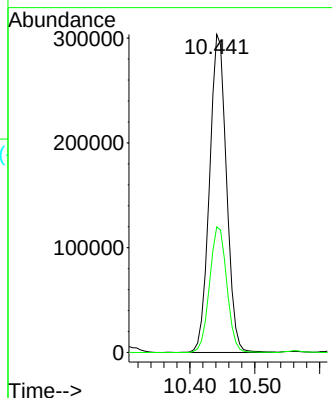
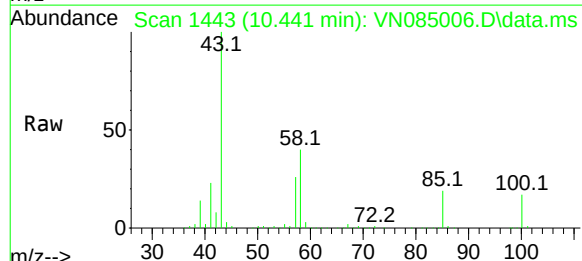
#51
4-Methyl-2-Pentanone
Concen: 257.854 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085006.D
Acq: 22 Nov 2024 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 551484
Ion Ratio Lower Upper
43 100
58 40.1 32.1 48.1

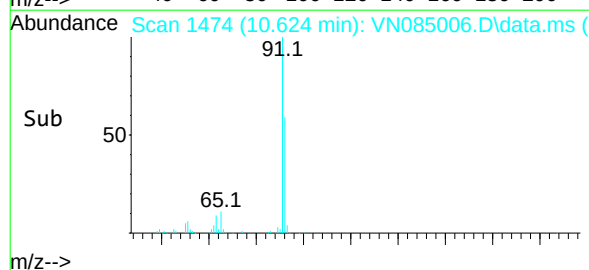
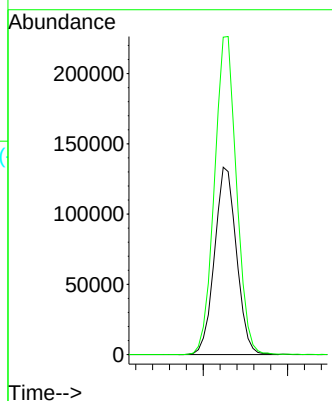
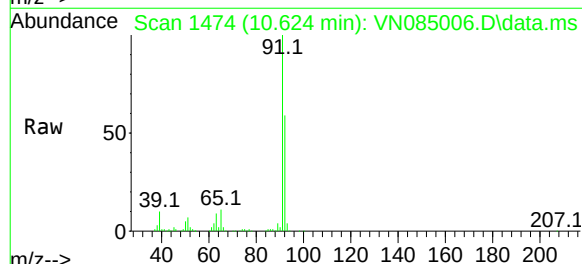
Manual Integrations
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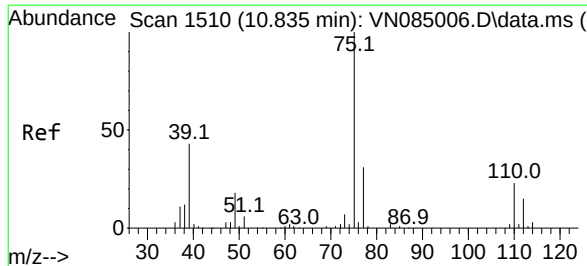
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#52
Toluene
Concen: 51.850 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. 0.000 min
Lab File: VN085006.D
Acq: 22 Nov 2024 11:46

Tgt Ion: 92 Resp: 240730
Ion Ratio Lower Upper
92 100
91 170.9 136.7 205.1





#53

t-1,3-Dichloropropene

Concen: 52.241 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 75 Resp: 148995

Ion Ratio Lower Upper

75 100

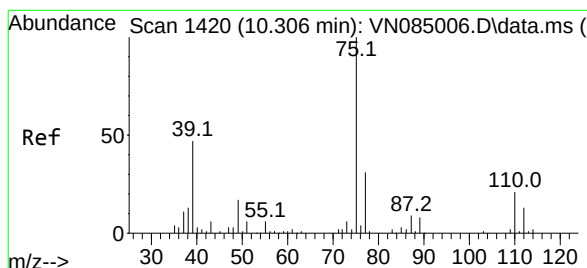
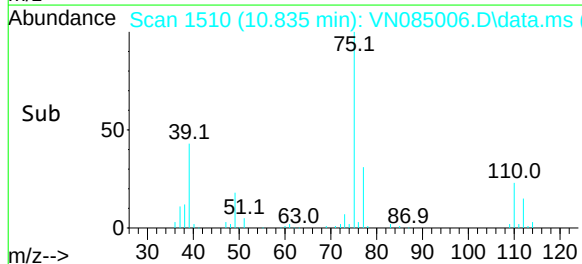
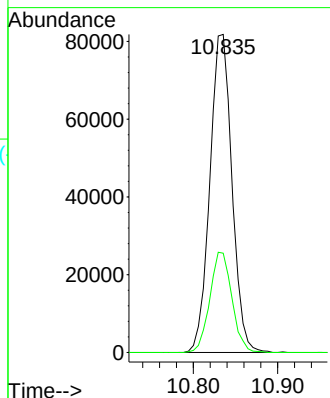
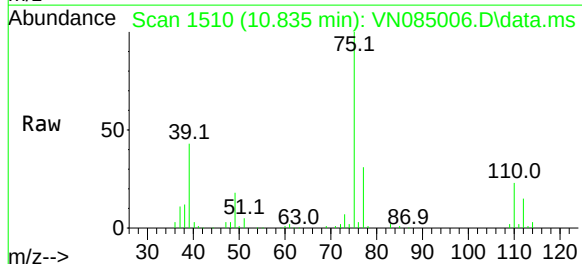
77 31.2 25.0 37.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#54

cis-1,3-Dichloropropene

Concen: 51.671 ug/l

RT: 10.306 min Scan# 1420

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

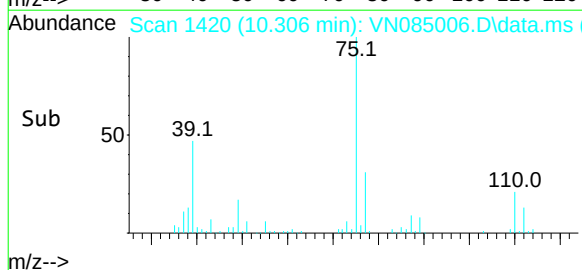
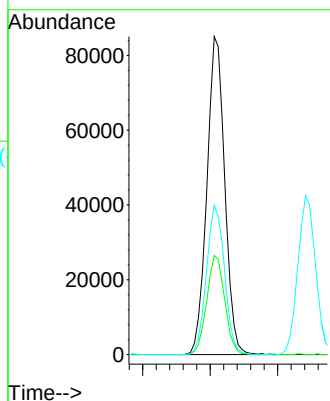
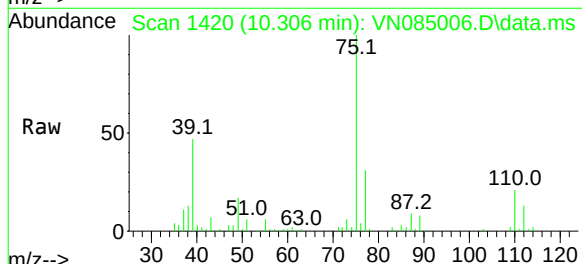
Tgt Ion: 75 Resp: 156342

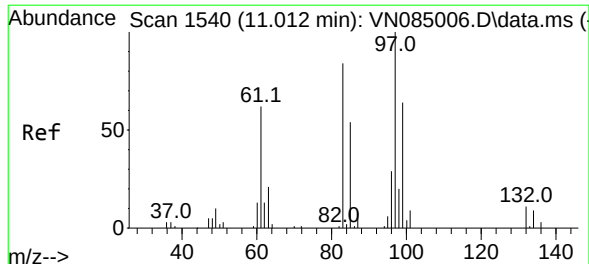
Ion Ratio Lower Upper

75 100

77 31.2 25.0 37.4

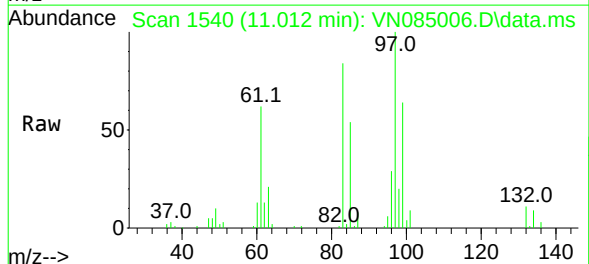
39 47.0 37.6 56.4





#55
1,1,2-Trichloroethane
Concen: 50.501 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. 0.000 min
Lab File: VN085006.D
Acq: 22 Nov 2024 11:46

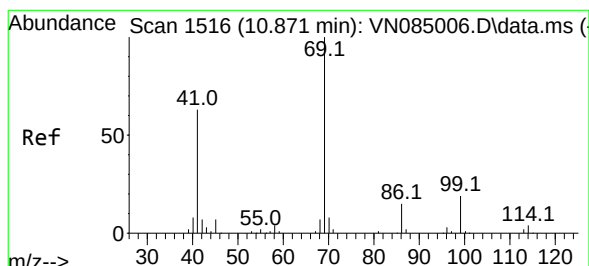
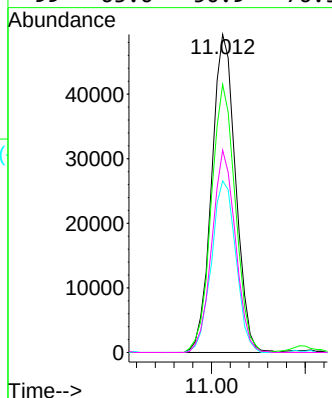
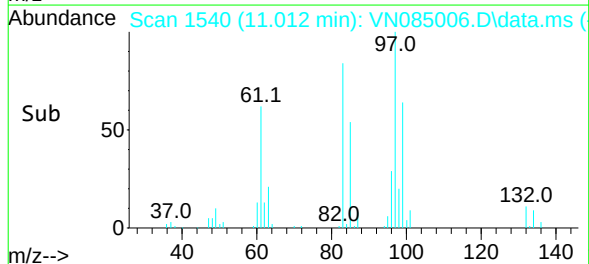
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



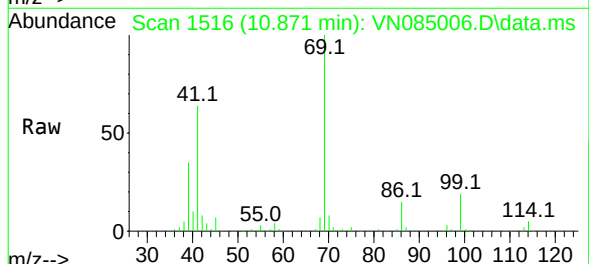
Tgt Ion	Ratio	Lower	Upper
97	100		
83	84.3	67.4	101.2
85	53.9	43.1	64.7
99	63.6	50.9	76.3

Manual Integrations
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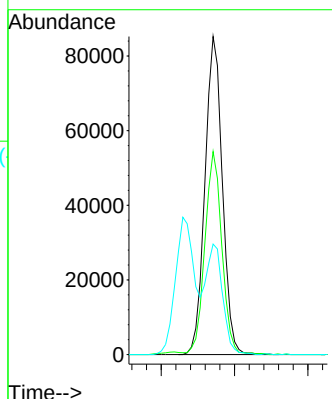
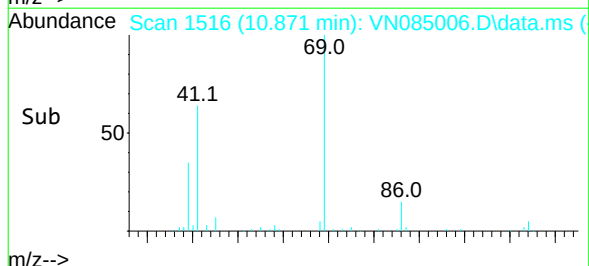
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024

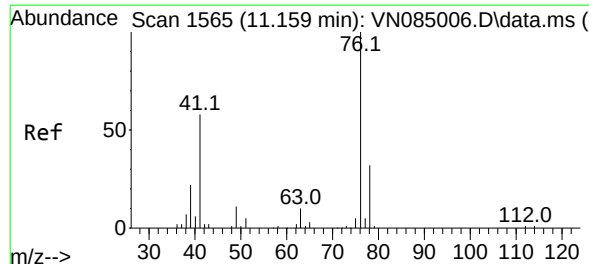


#56
Ethyl methacrylate
Concen: 55.617 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN085006.D
Acq: 22 Nov 2024 11:46



Tgt Ion	Ratio	Lower	Upper
69	100		
41	62.5	50.0	75.0
39	33.8	27.0	40.6





#57

1,3-Dichloropropane

Concen: 49.800 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 151573

Ion Ratio Lower Upper

76 100

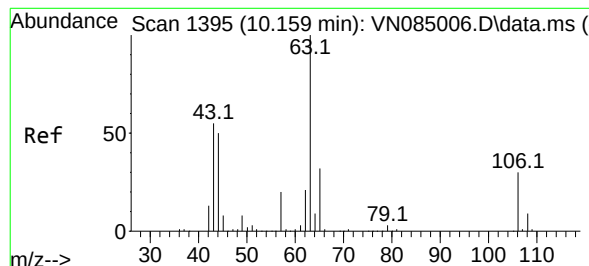
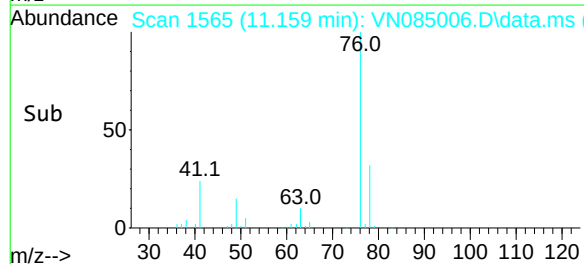
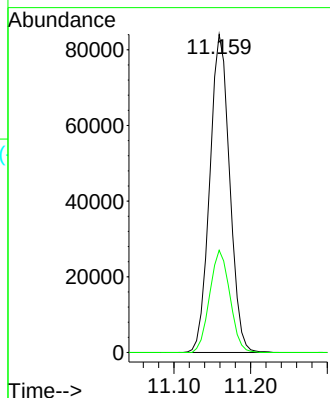
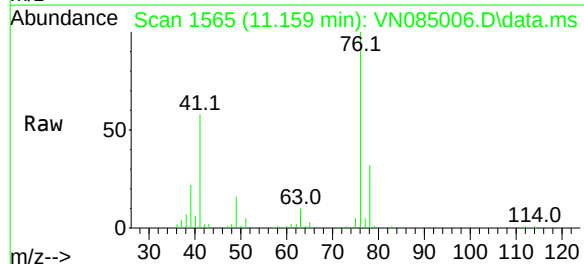
78 32.6 26.1 39.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#58

2-Chloroethyl Vinyl ether

Concen: 297.030 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN085006.D

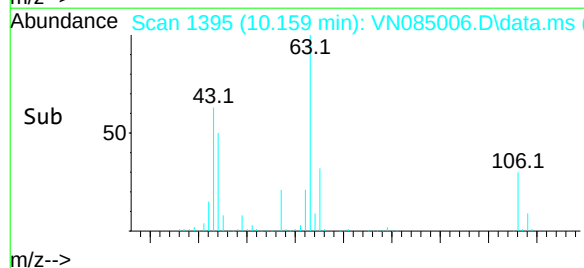
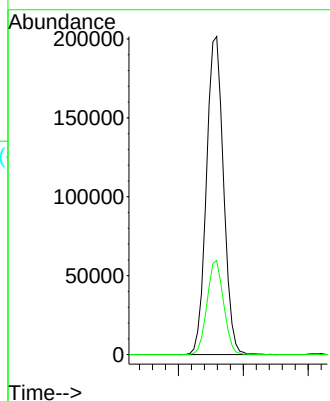
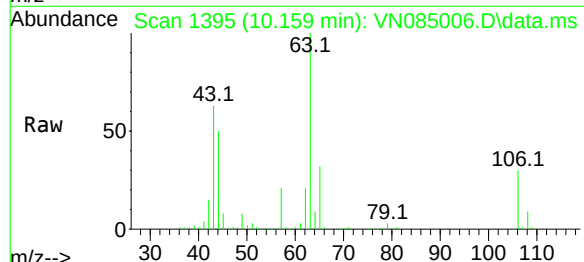
Acq: 22 Nov 2024 11:46

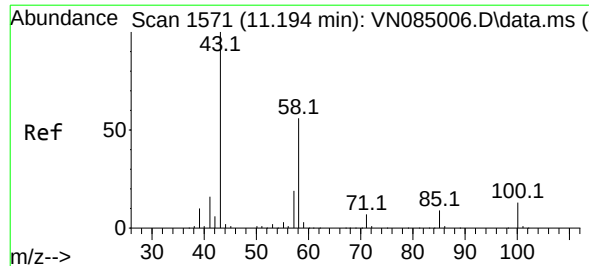
Tgt Ion: 63 Resp: 368190

Ion Ratio Lower Upper

63 100

106 28.8 23.0 34.6





#59

2-Hexanone

Concen: 265.165 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VN085006.D

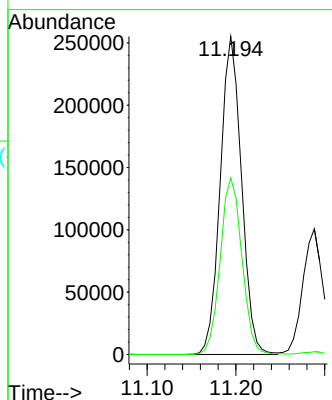
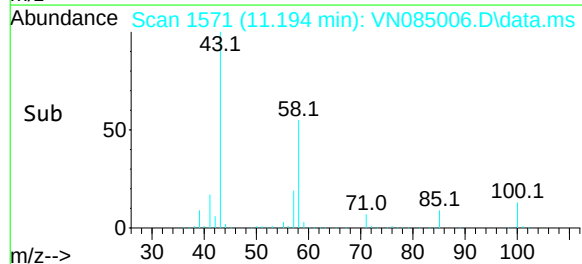
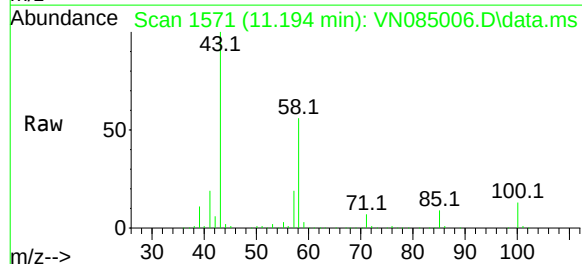
Acq: 22 Nov 2024 11:46

Tgt Ion: 43 Resp: 424152

Ion Ratio Lower Upper

43 100

58 56.7 28.3 85.0



Instrument :

MSVOA_N

ClientSampleId :

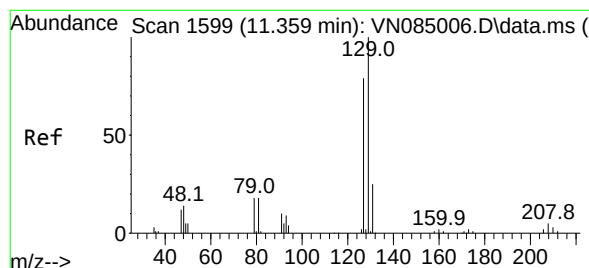
VSTDICCC050

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#60

Dibromochloromethane

Concen: 49.538 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. 0.000 min

Lab File: VN085006.D

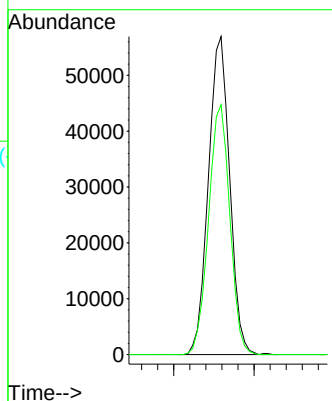
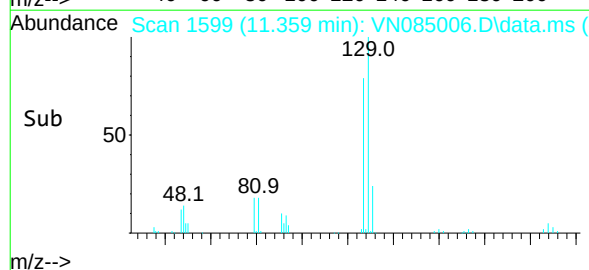
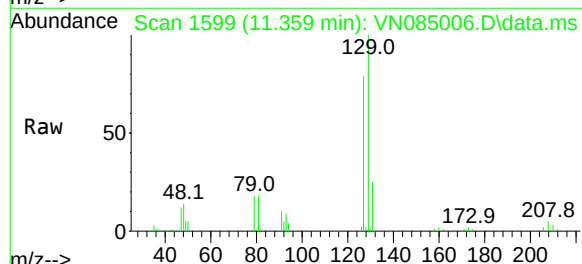
Acq: 22 Nov 2024 11:46

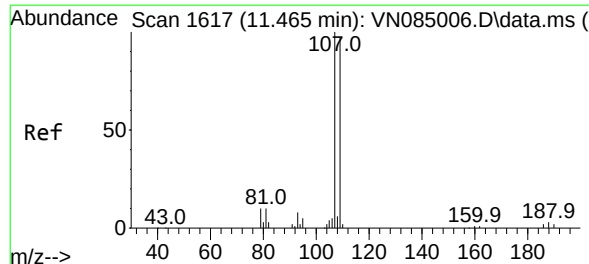
Tgt Ion:129 Resp: 104699

Ion Ratio Lower Upper

129 100

127 78.4 39.2 117.6





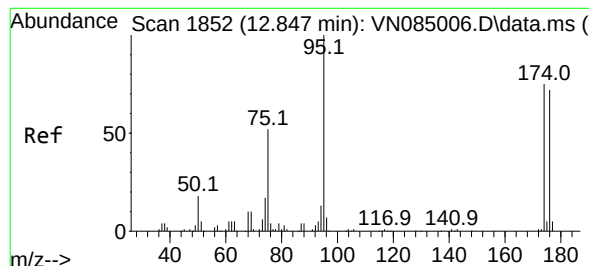
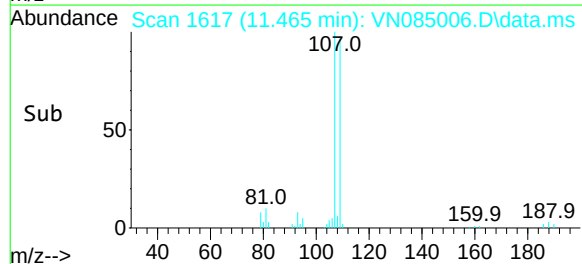
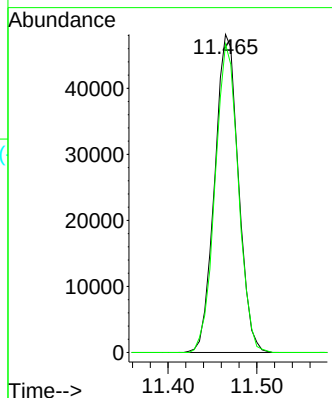
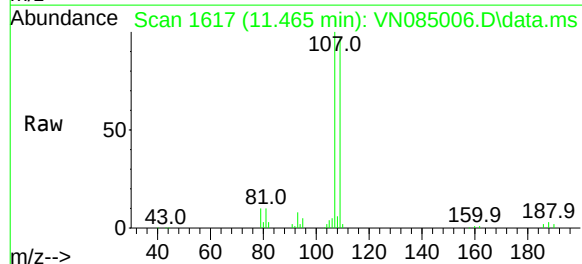
#61
1,2-Dibromoethane
Concen: 49.991 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085006.D
Acq: 22 Nov 2024 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 107 Resp: 89471
Ion Ratio Lower Upper
107 100
109 95.1 76.1 114.1

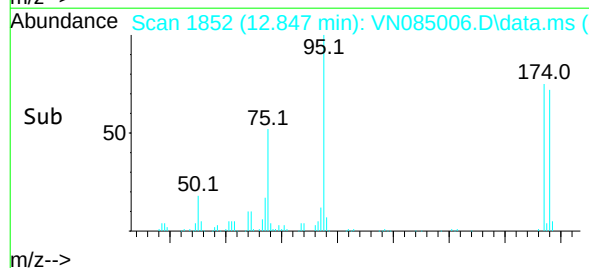
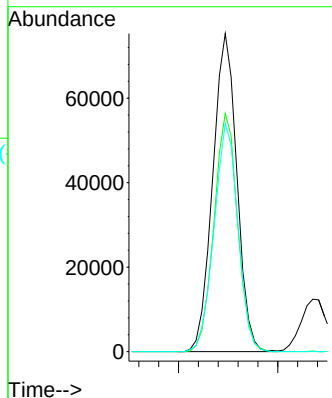
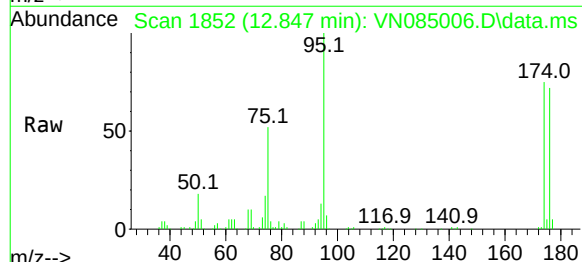
Manual Integrations
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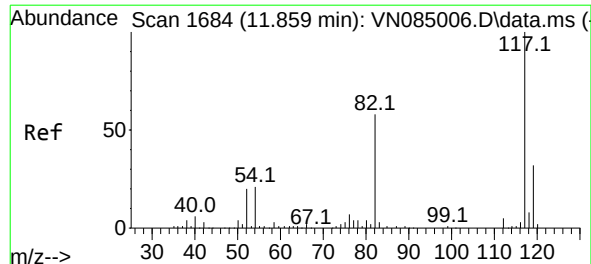
Reviewed By : John Carlone 11/25/2024
Supervised By : Mahesh Dadoda 11/25/2024



#62
4-Bromofluorobenzene
Concen: 51.698 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085006.D
Acq: 22 Nov 2024 11:46

Tgt Ion: 95 Resp: 126840
Ion Ratio Lower Upper
95 100
174 73.3 0.0 146.6
176 70.9 0.0 141.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.859 min Scan# 1684

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:117 Resp: 232158

Ion Ratio Lower Upper

117 100

82 57.5 46.0 69.0

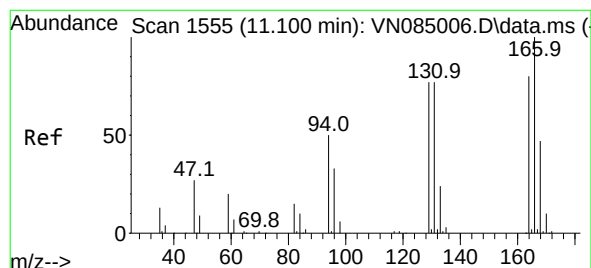
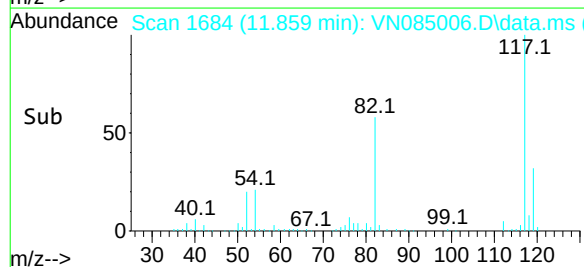
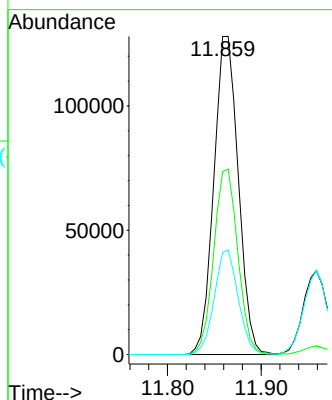
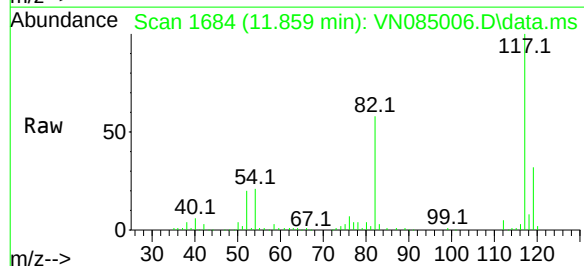
119 32.0 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#64

Tetrachloroethene

Concen: 48.747 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Tgt Ion:164 Resp: 76257

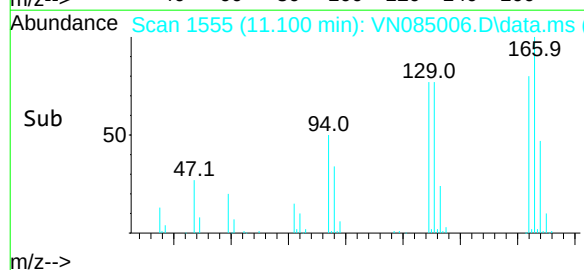
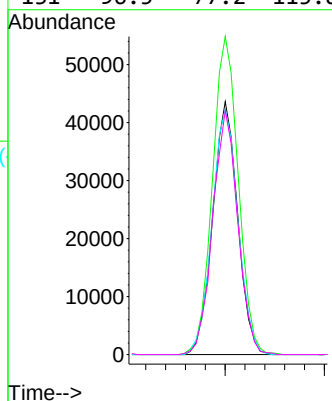
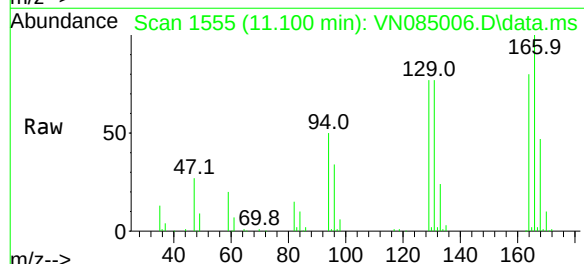
Ion Ratio Lower Upper

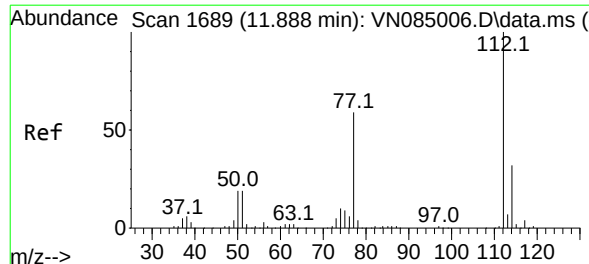
164 100

166 125.8 100.6 151.0

129 97.1 77.7 116.5

131 96.5 77.2 115.8





#65

Chlorobenzene

Concen: 48.041 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:112 Resp: 252937

Ion Ratio Lower Upper

112 100

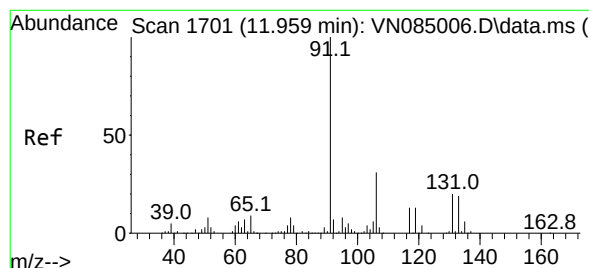
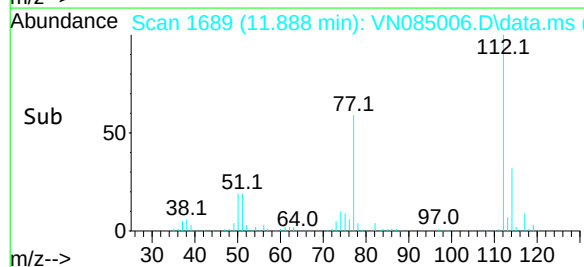
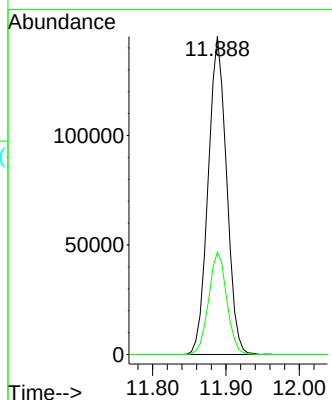
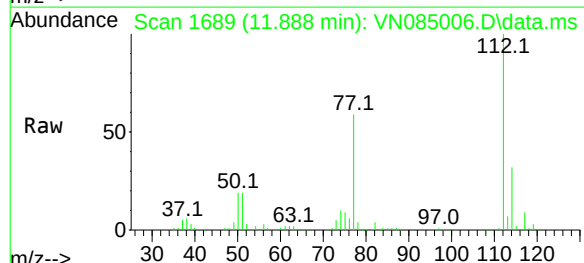
114 32.2 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#66

1,1,1,2-Tetrachloroethane

Concen: 49.785 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

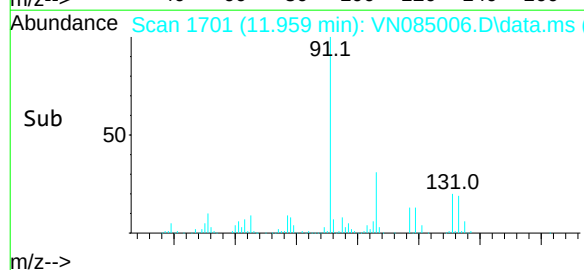
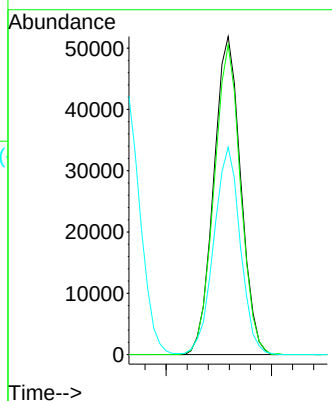
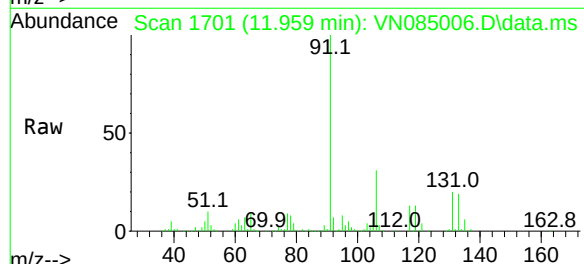
Tgt Ion:131 Resp: 92289

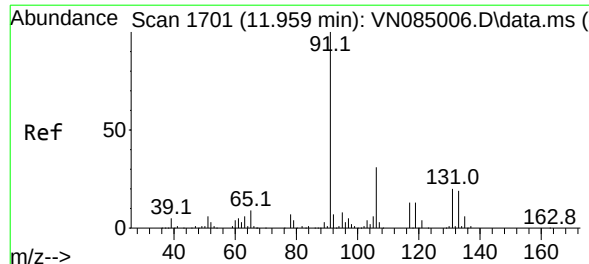
Ion Ratio Lower Upper

131 100

133 95.6 47.8 143.4

119 64.2 32.1 96.3





#67

Ethyl Benzene

Concen: 52.856 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 451491

Ion Ratio Lower Upper

91 100

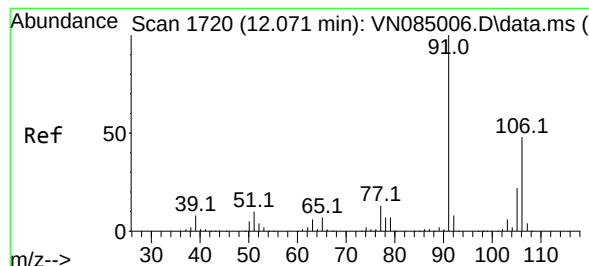
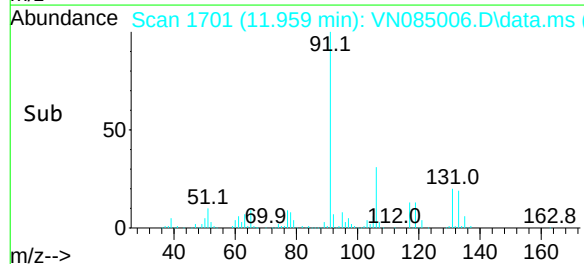
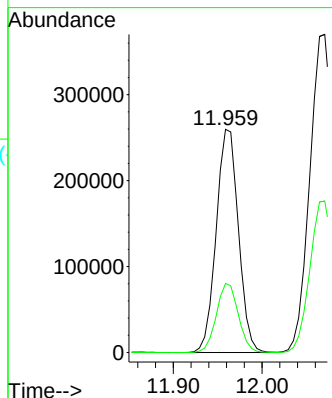
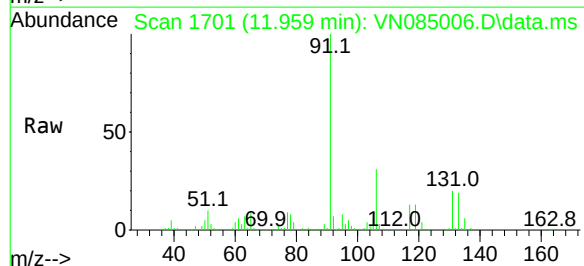
106 30.9 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#68

m/p-Xylenes

Concen: 105.174 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.000 min

Lab File: VN085006.D

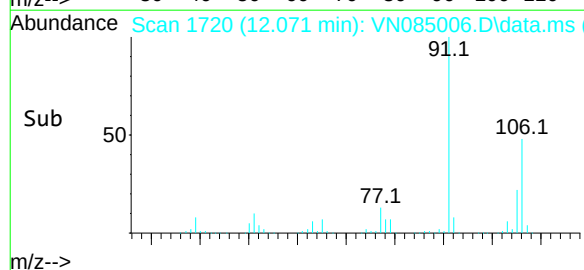
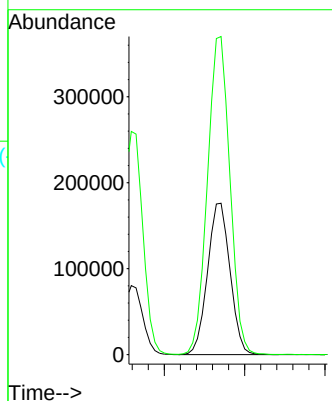
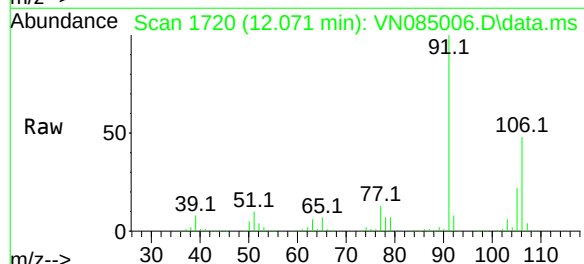
Acq: 22 Nov 2024 11:46

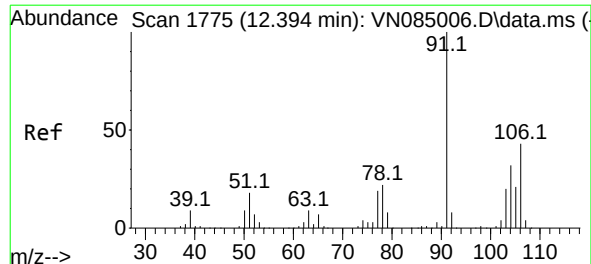
Tgt Ion:106 Resp: 342033

Ion Ratio Lower Upper

106 100

91 210.0 168.0 252.0





#69

o-Xylene

Concen: 53.059 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:106 Resp: 164137

Ion Ratio Lower Upper

106 100

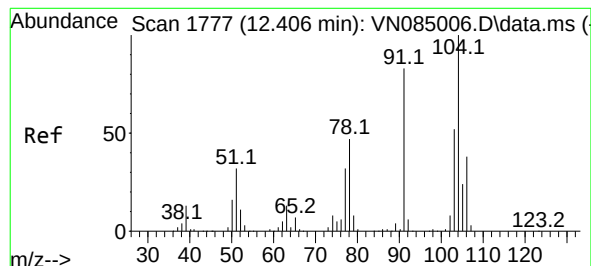
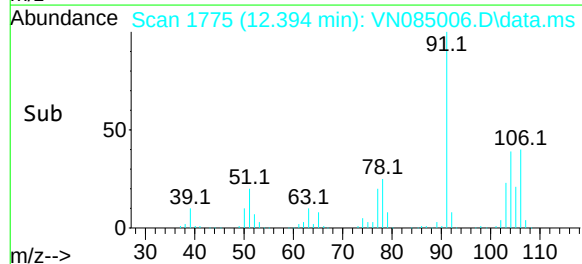
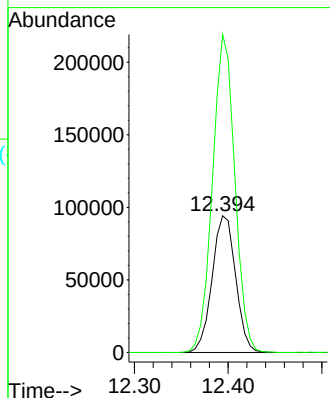
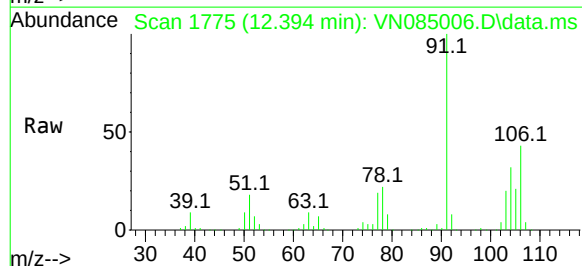
91 221.3 110.7 331.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#70

Styrene

Concen: 53.912 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

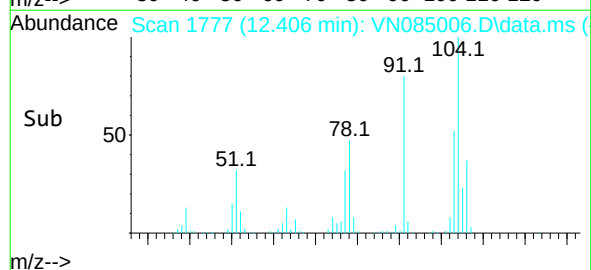
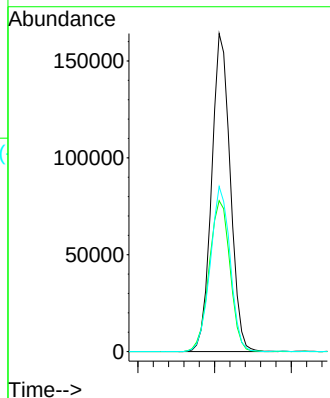
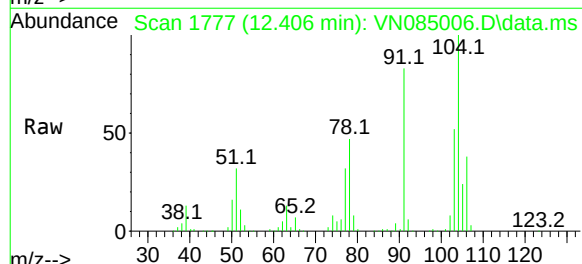
Tgt Ion:104 Resp: 277349

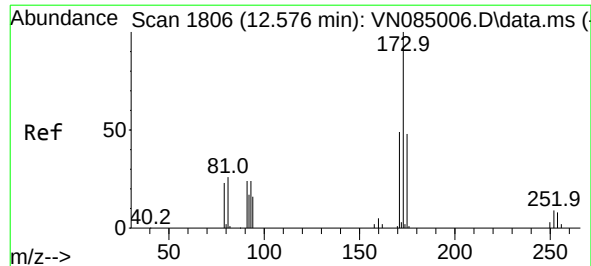
Ion Ratio Lower Upper

104 100

78 52.9 42.3 63.5

103 55.2 44.2 66.2





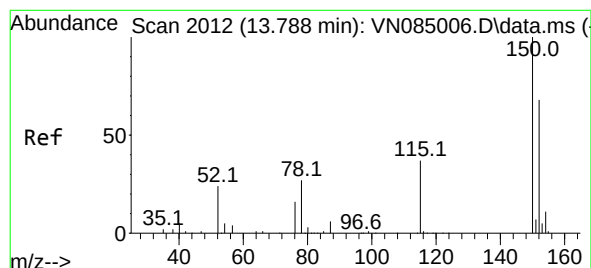
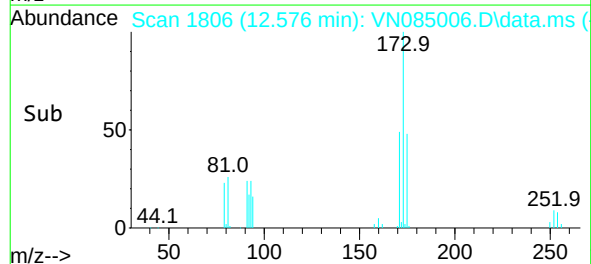
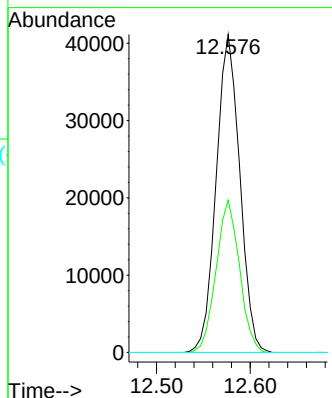
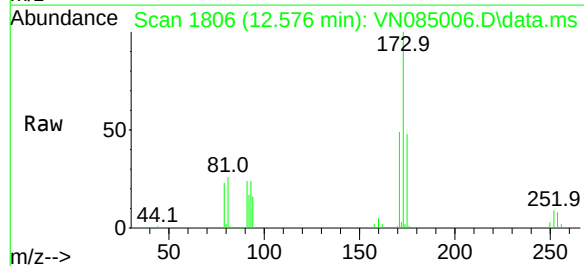
#71
Bromoform
Concen: 52.221 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN085006.D
Acq: 22 Nov 2024 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion	Ratio	Lower	Upper
173	100		
175	47.5	23.8	71.2
254	0.0	0.0	0.0

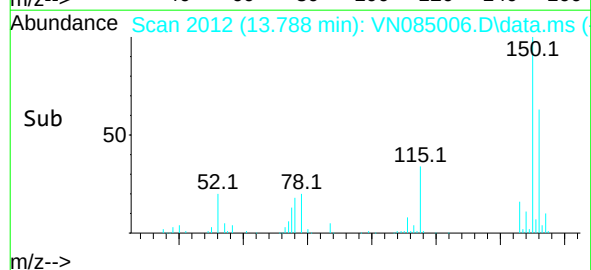
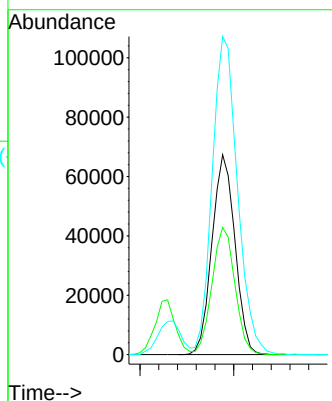
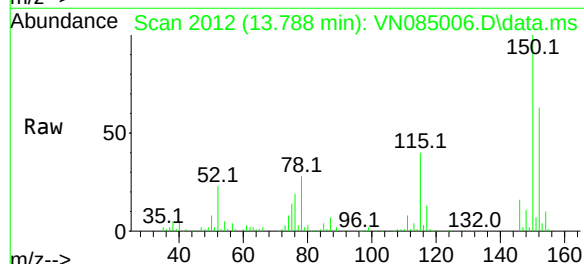
Manual Integrations
APPROVED

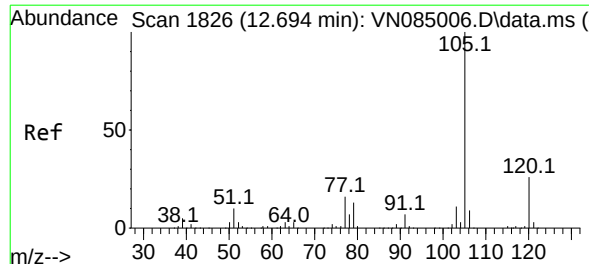
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085006.D
Acq: 22 Nov 2024 11:46

Tgt Ion	Ratio	Lower	Upper
152	100		
115	63.4	31.7	95.1
150	175.7	0.0	351.4





#73

Isopropylbenzene

Concen: 51.479 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 105 Resp: 415716

Ion Ratio Lower Upper

105 100

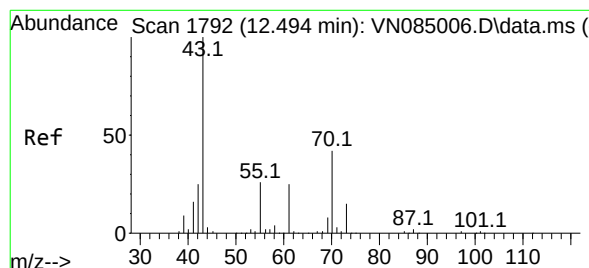
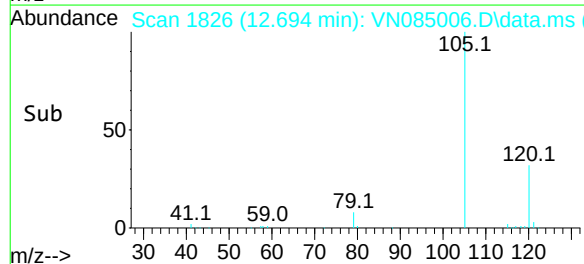
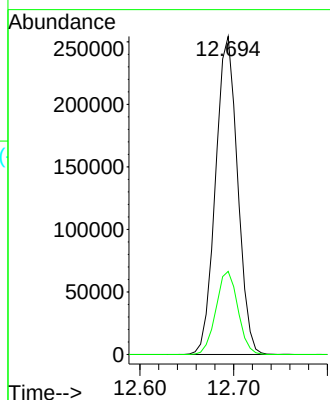
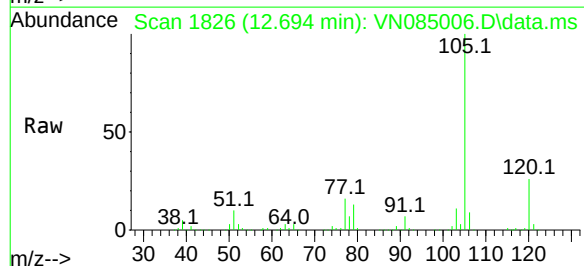
120 26.0 13.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#74

N-ethyl acetate

Concen: 53.396 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Tgt Ion: 43 Resp: 177685

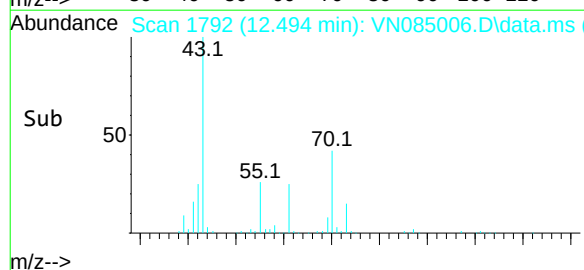
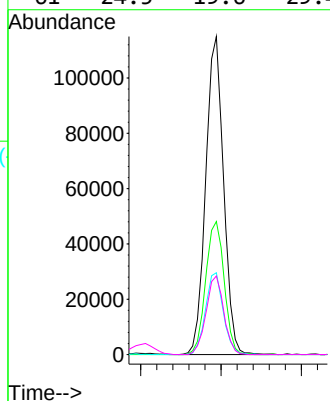
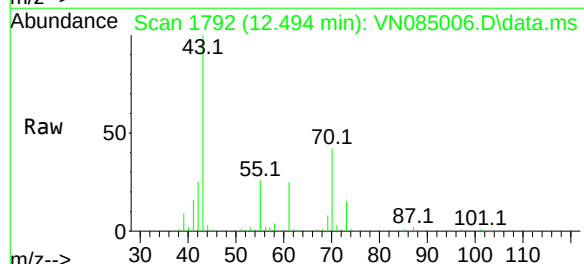
Ion Ratio Lower Upper

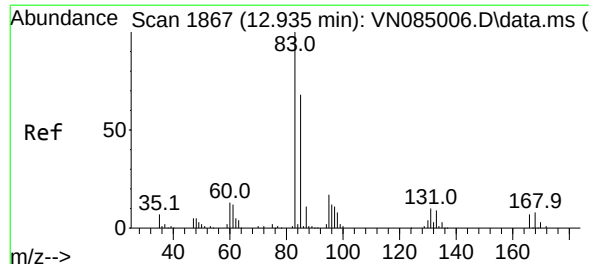
43 100

70 43.2 34.6 51.8

55 25.6 20.5 30.7

61 24.5 19.6 29.4





#75

1,1,2,2-Tetrachloroethane

Concen: 45.771 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Instrument :

MSVOA_N

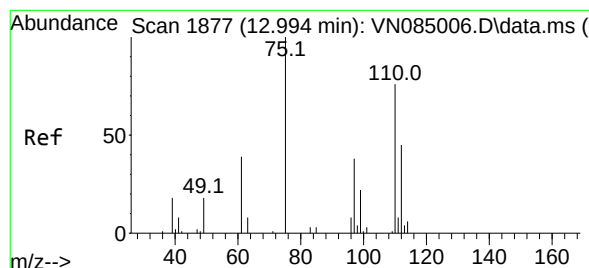
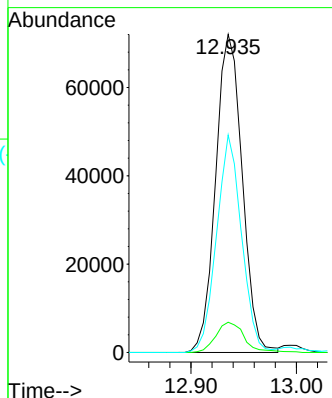
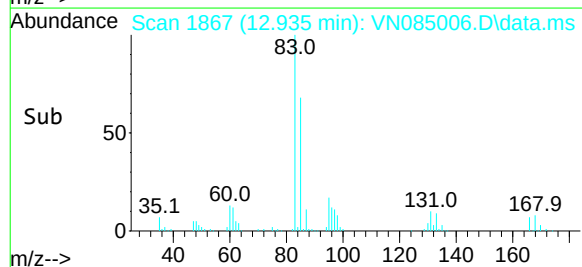
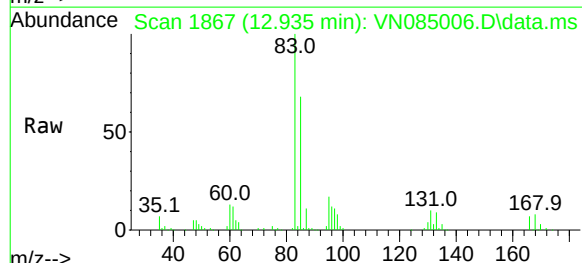
ClientSampleId :

VSTDICCC050

Tgt Ion:	83	Resp:	126215
Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.4
85	64.2	32.1	96.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#76

1,2,3-Trichloropropane

Concen: 48.246 ug/l m

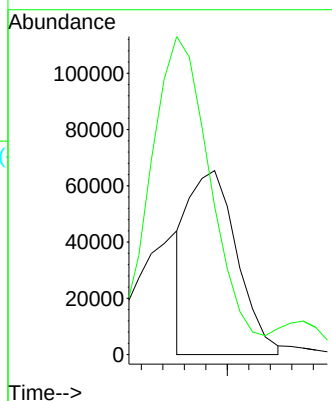
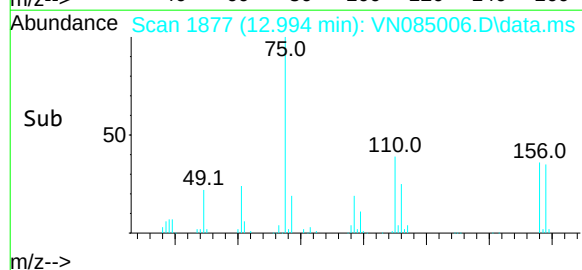
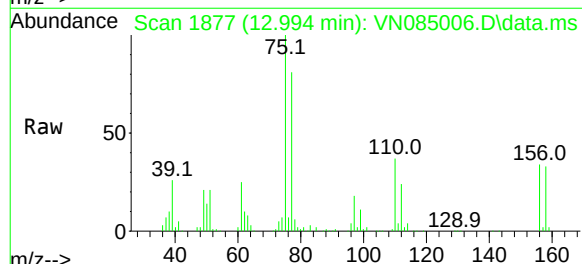
RT: 12.994 min Scan# 1877

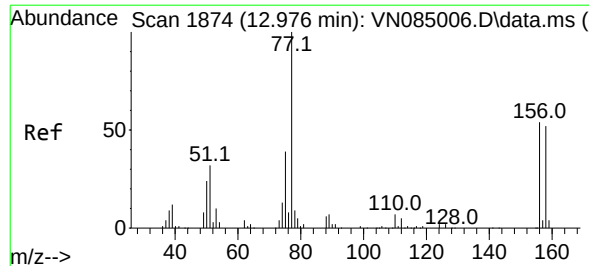
Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Tgt Ion:	75	Resp:	103311
Ion	Ratio	Lower	Upper
75	100		
77	218.3	109.1	327.4





#77

Bromobenzene

Concen: 48.402 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

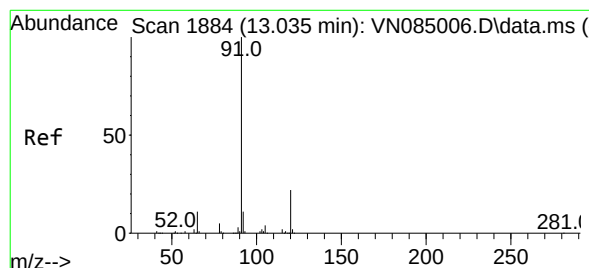
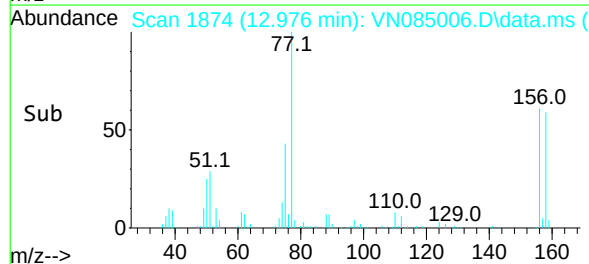
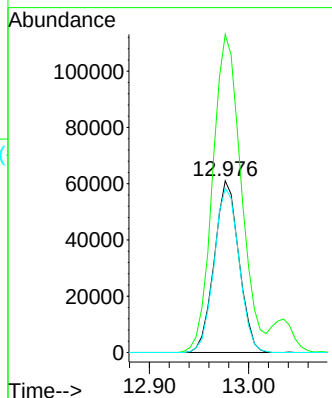
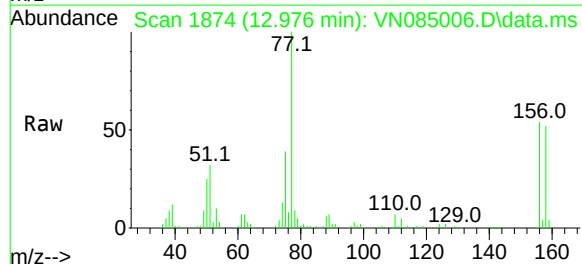
Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:	156	Resp:	105184
Ion Ratio	Lower	Upper	
156	100		
77	214.4	107.2	321.6
158	97.1	48.5	145.6

Manual Integrations
APPROVEDReviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024

#78

n-propylbenzene

Concen: 52.059 ug/l

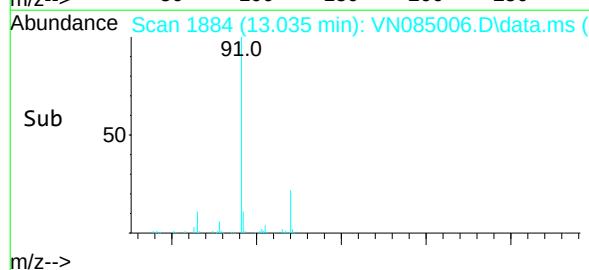
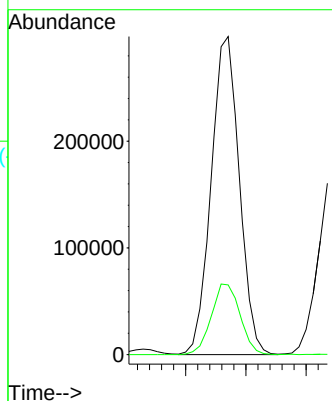
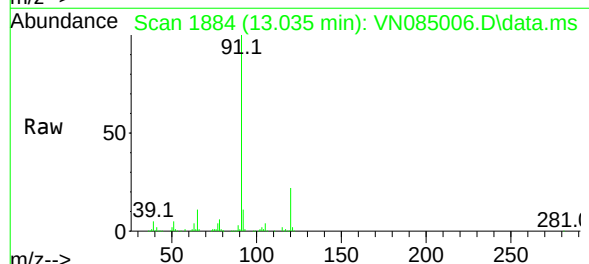
RT: 13.035 min Scan# 1884

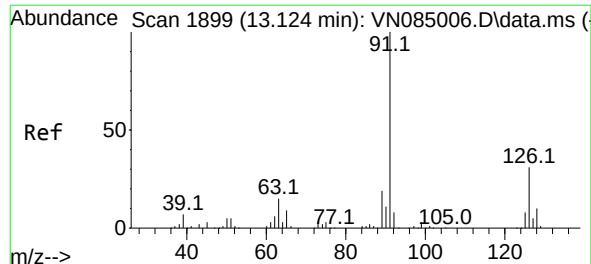
Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Tgt Ion:	91	Resp:	484892
Ion Ratio	Lower	Upper	
91	100		
120	22.6	11.3	33.9





#79

2-Chlorotoluene

Concen: 49.174 ug/l

RT: 13.124 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Tgt Ion: 91 Resp: 305747

Ion Ratio Lower Upper

91 100

126 32.2 16.1 48.3

Instrument :

MSVOA_N

ClientSampleId :

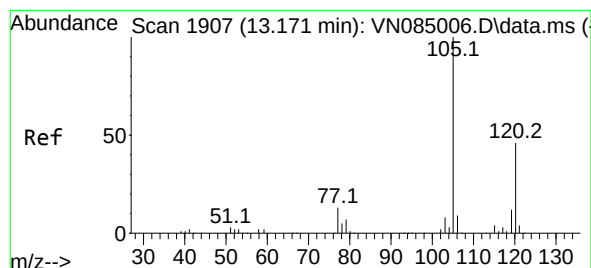
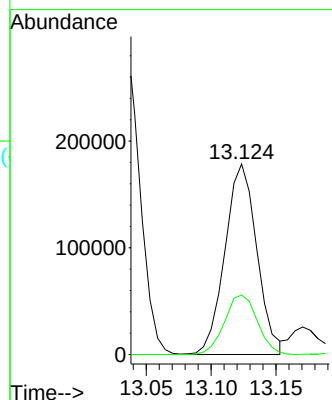
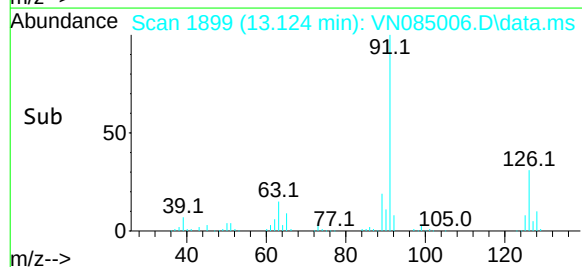
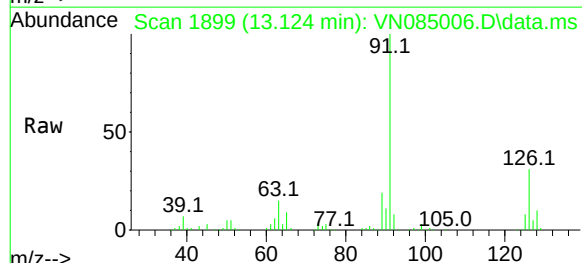
VSTDICCC050

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#80

1,3,5-Trimethylbenzene

Concen: 53.145 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN085006.D

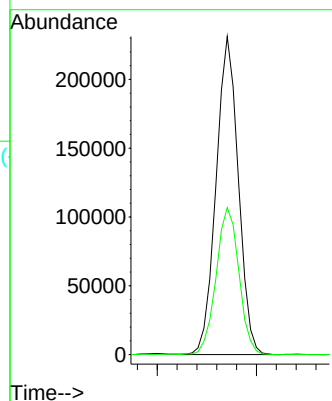
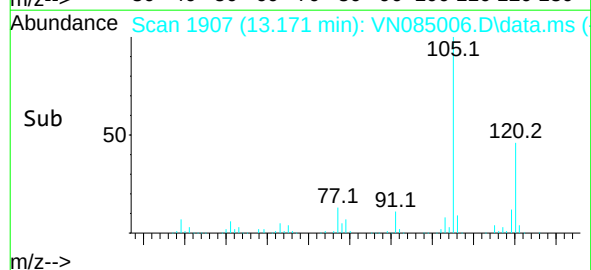
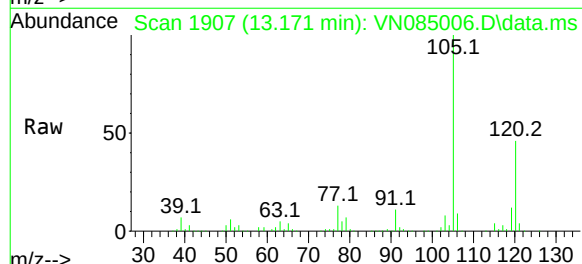
Acq: 22 Nov 2024 11:46

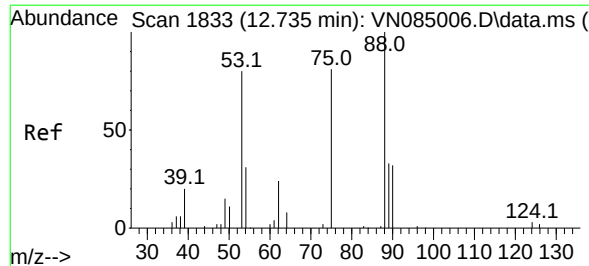
Tgt Ion:105 Resp: 360125

Ion Ratio Lower Upper

105 100

120 47.3 23.6 71.0





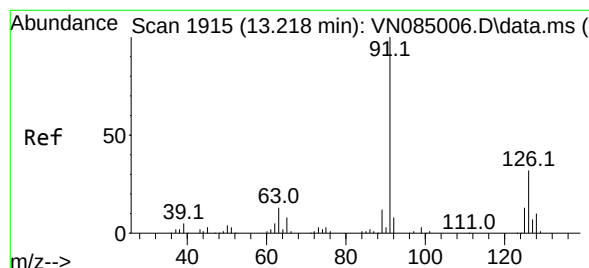
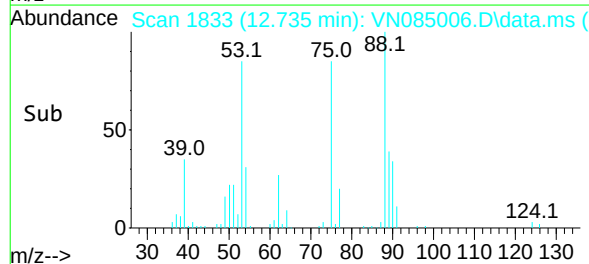
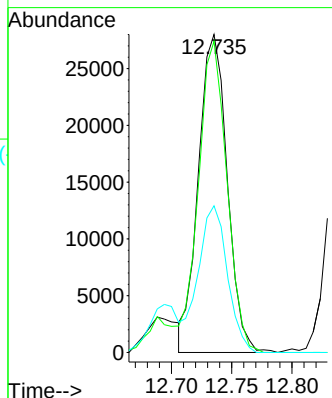
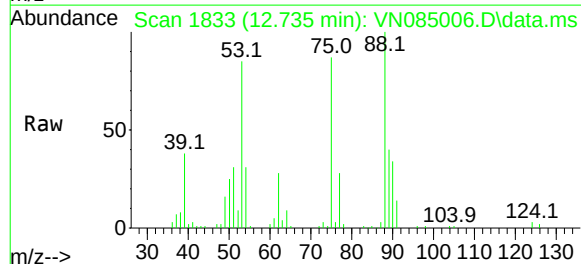
#81
trans-1,4-Dichloro-2-butene
Concen: 50.990 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN085006.D
Acq: 22 Nov 2024 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion	Ratio	Lower	Upper
75	100		
53	97.8	78.2	117.4
89	47.4	37.9	56.9

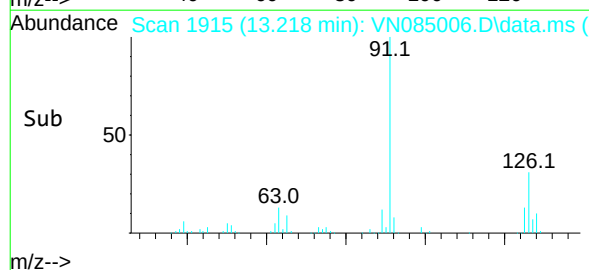
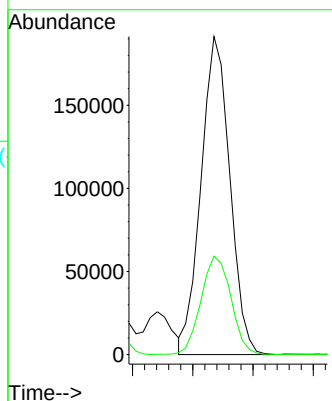
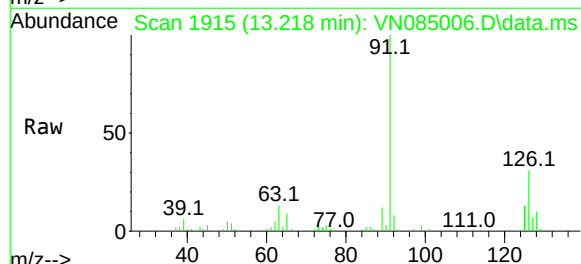
Manual Integrations
APPROVED

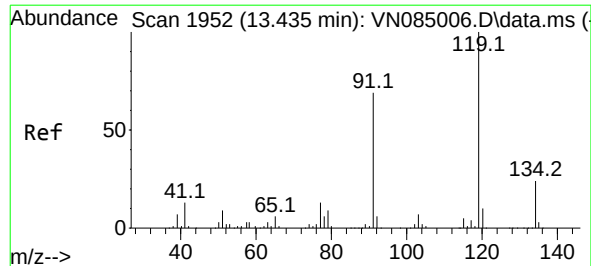
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#82
4-Chlorotoluene
Concen: 49.063 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085006.D
Acq: 22 Nov 2024 11:46

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.2	16.1	48.3





#83

tert-Butylbenzene

Concen: 51.657 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Instrument :

MSVOA_N

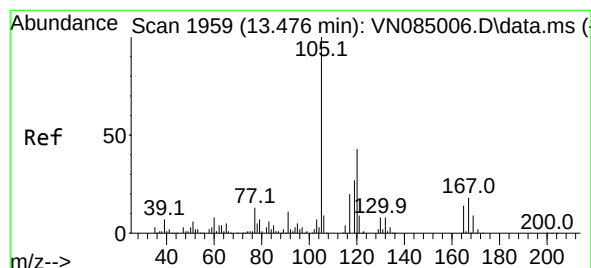
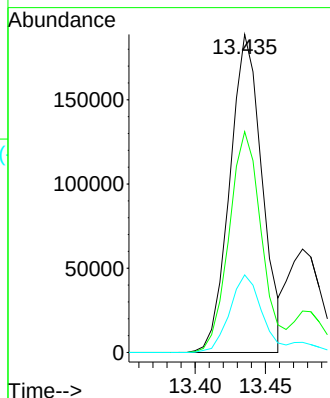
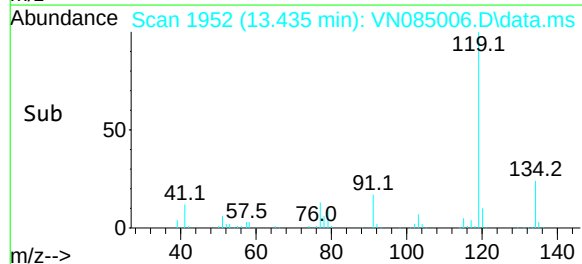
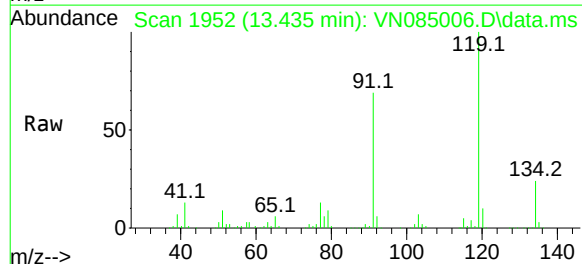
ClientSampleId :

VSTDICCC050

Tgt Ion:	119	Resp:	301180
Ion	Ratio	Lower	Upper
119	100		
91	70.3	35.1	105.5
134	24.2	12.1	36.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#84

1,2,4-Trimethylbenzene

Concen: 53.195 ug/l

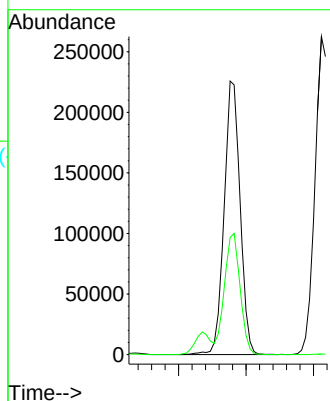
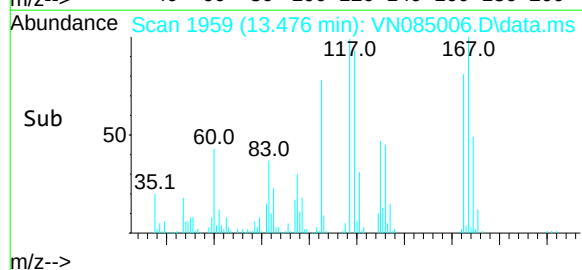
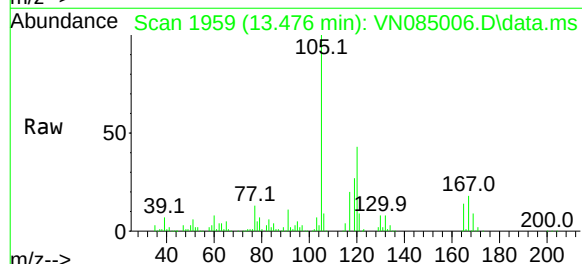
RT: 13.476 min Scan# 1959

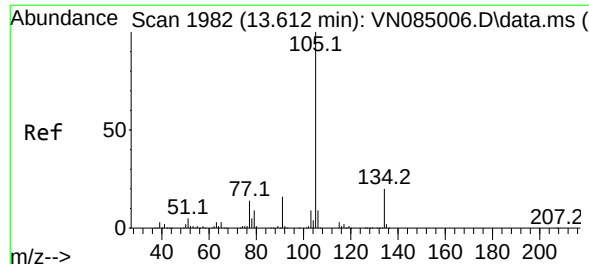
Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Tgt Ion:	105	Resp:	371046
Ion	Ratio	Lower	Upper
105	100		
120	43.6	21.8	65.4





#85

sec-Butylbenzene

Concen: 53.296 ug/l

RT: 13.612 min Scan# 1982

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:105 Resp: 419761

Ion Ratio Lower Upper

105 100

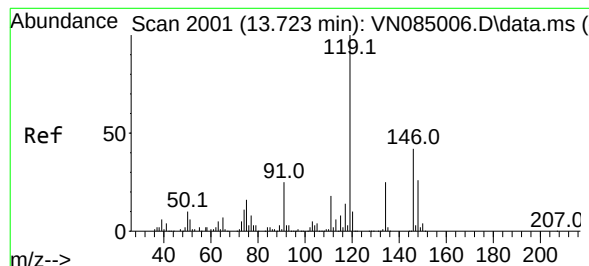
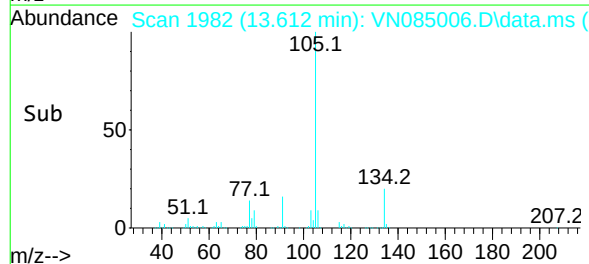
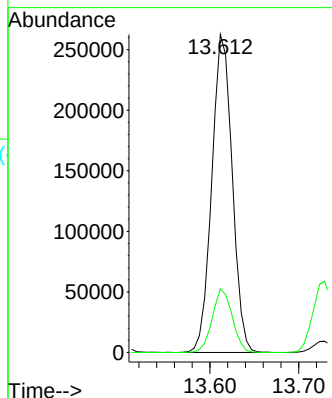
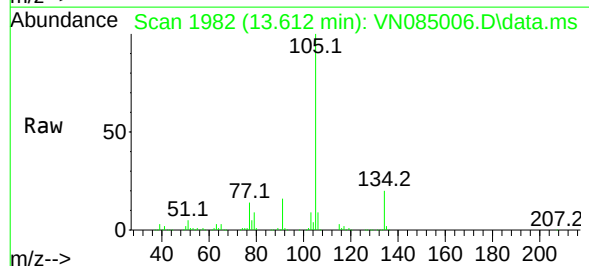
134 19.5 9.8 29.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#86

p-Isopropyltoluene

Concen: 54.443 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

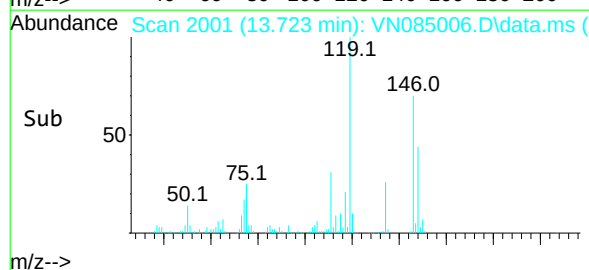
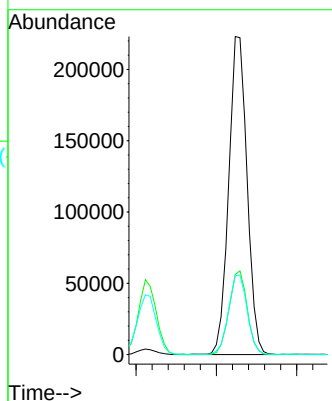
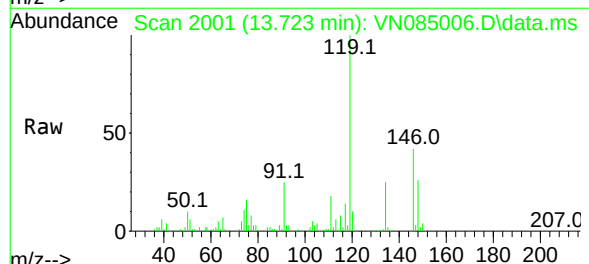
Tgt Ion:119 Resp: 353974

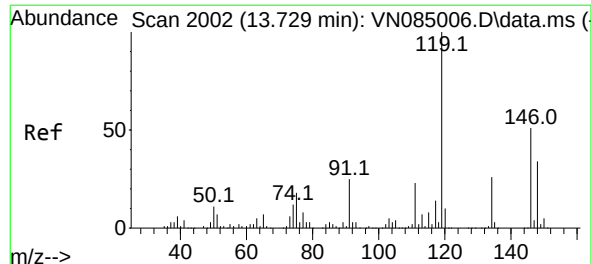
Ion Ratio Lower Upper

119 100

134 26.0 13.0 39.0

91 25.6 12.8 38.4





#87

1,3-Dichlorobenzene

Concen: 45.855 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:146 Resp: 196552

Ion Ratio Lower Upper

146 100

111 43.3 21.6 65.0

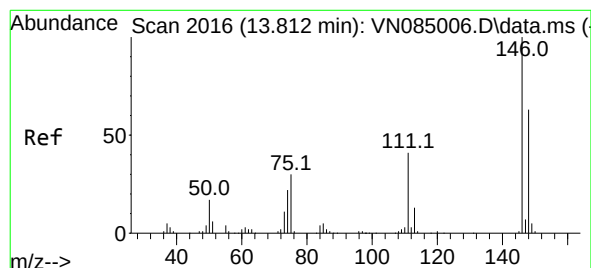
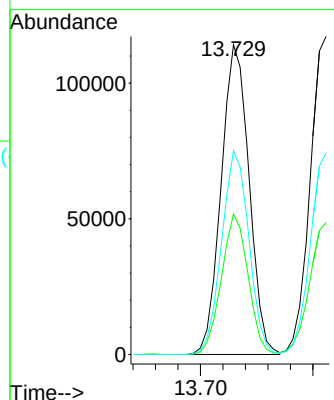
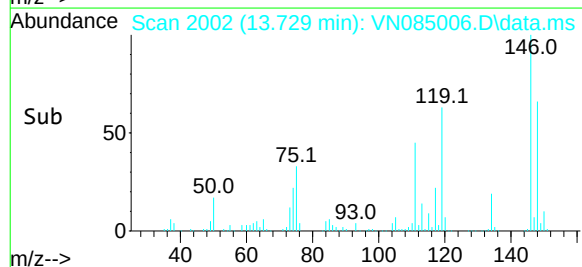
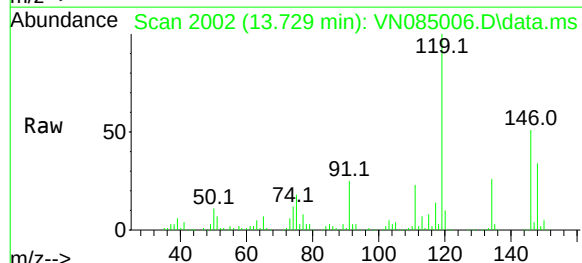
148 64.4 32.2 96.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#88

1,4-Dichlorobenzene

Concen: 46.058 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

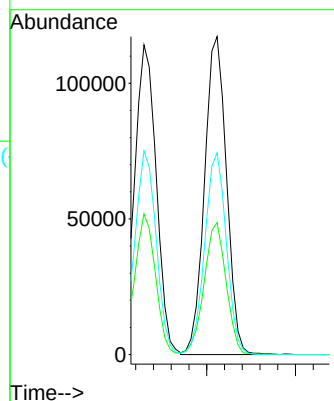
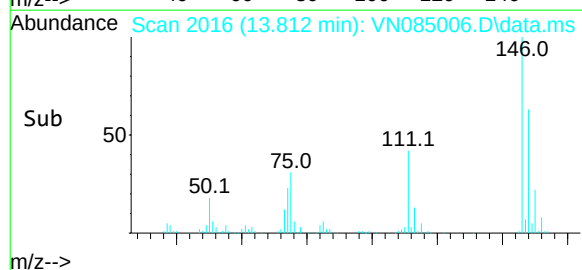
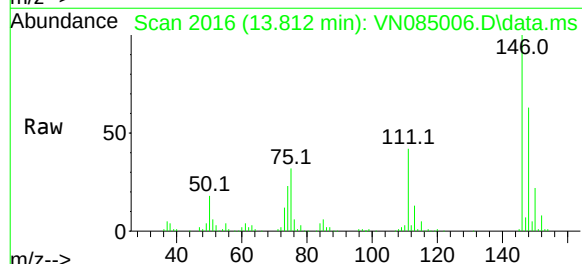
Tgt Ion:146 Resp: 201469

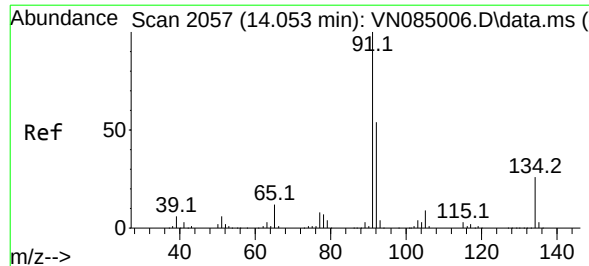
Ion Ratio Lower Upper

146 100

111 41.9 20.9 62.8

148 62.6 31.3 93.9





#89

n-Butylbenzene

Concen: 50.564 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Instrument :

MSVOA_N

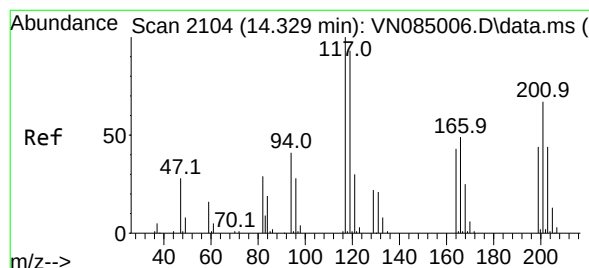
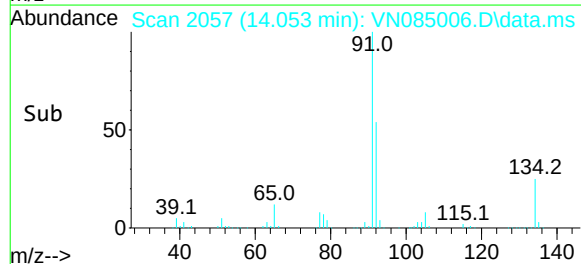
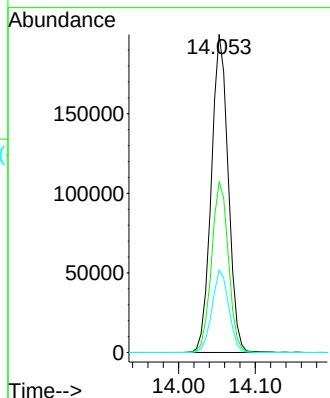
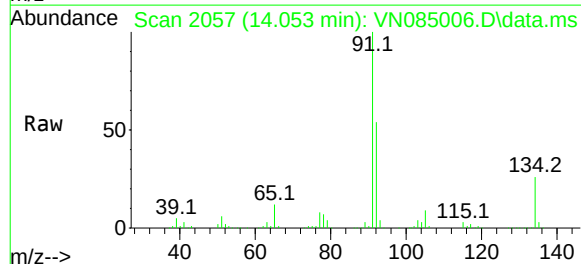
ClientSampleId :

VSTDICCC050

Tgt Ion:	91	Resp:	305730
Ion Ratio	Lower	Upper	
91	100		
92	53.5	26.8	80.3
134	25.6	12.8	38.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#90

Hexachloroethane

Concen: 49.001 ug/l

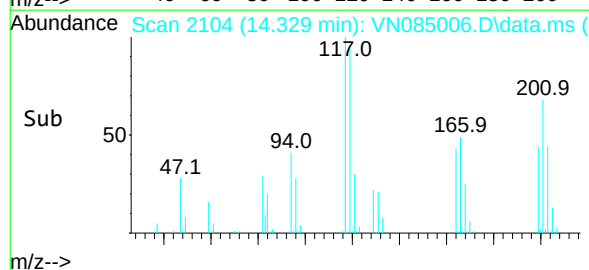
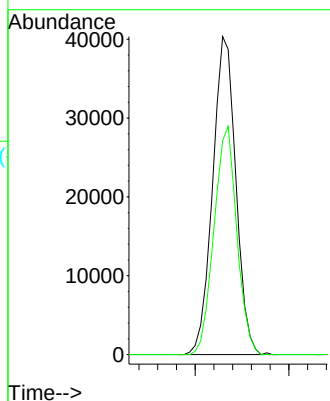
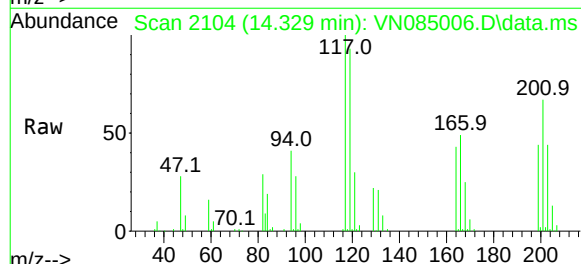
RT: 14.329 min Scan# 2104

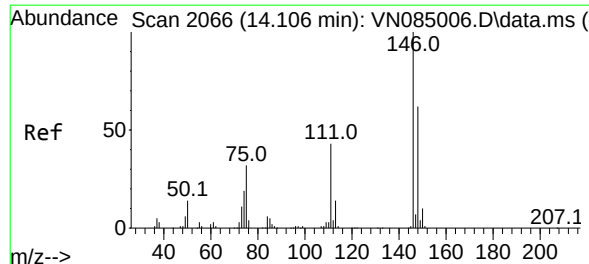
Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Tgt Ion:	117	Resp:	69444
Ion Ratio	Lower	Upper	
117	100		
201	70.4	35.2	105.6





#91

1,2-Dichlorobenzene

Concen: 47.019 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

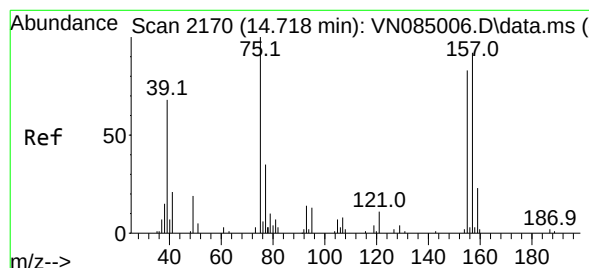
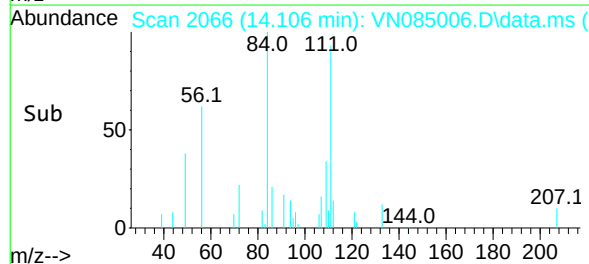
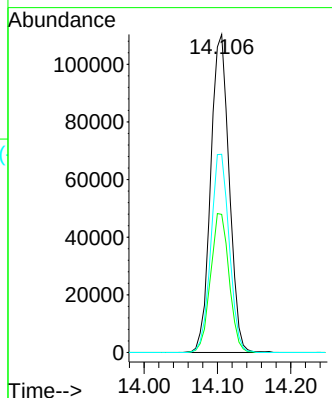
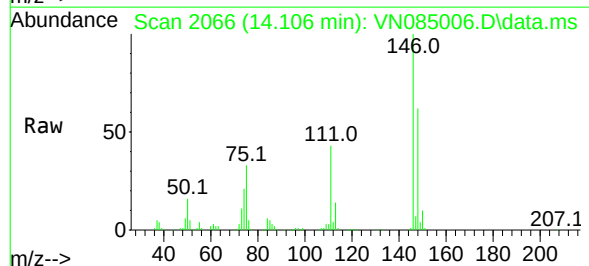
VSTDICCC050

Tgt Ion:	146	Resp:	193123
Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.9	65.8
148	62.1	31.1	93.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 46.995 ug/l

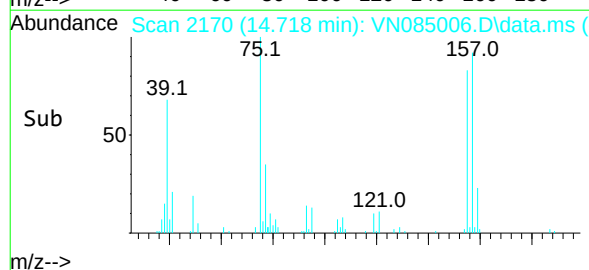
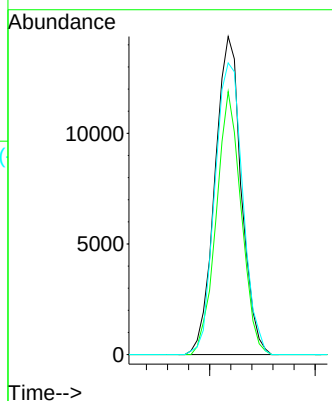
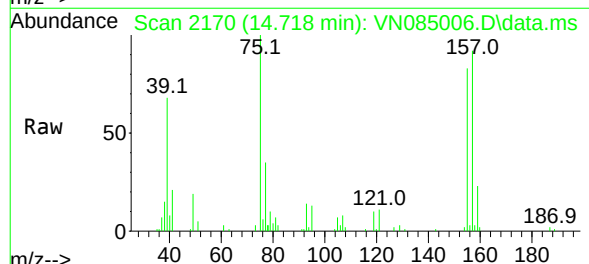
RT: 14.718 min Scan# 2170

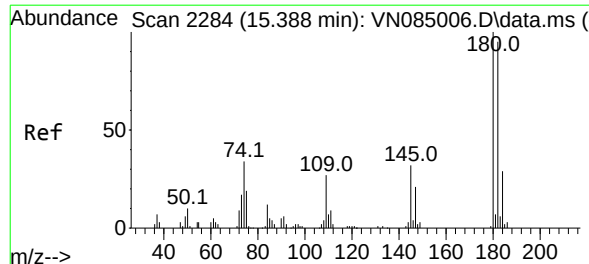
Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Tgt Ion:	75	Resp:	25059
Ion	Ratio	Lower	Upper
75	100		
155	77.8	38.9	116.7
157	96.6	48.3	144.9





#93

1,2,4-Trichlorobenzene

Concen: 46.278 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Instrument :

MSVOA_N

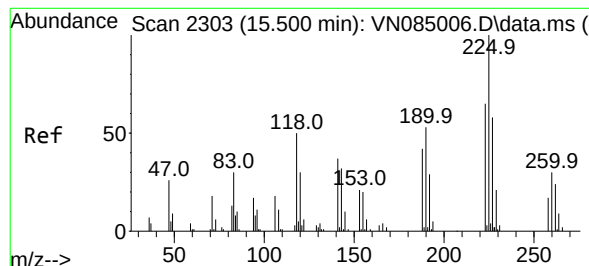
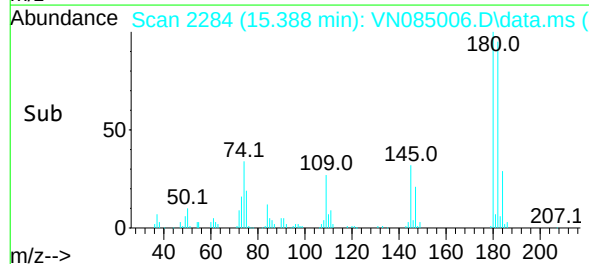
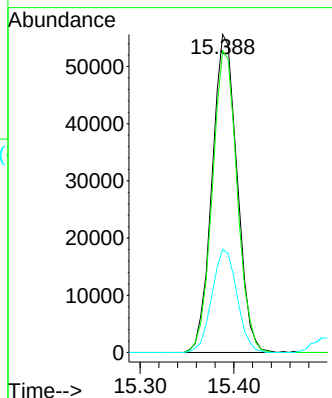
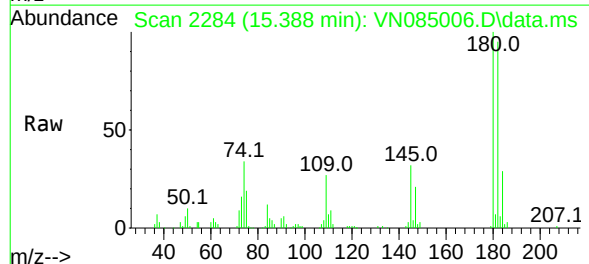
ClientSampleId :

VSTDICCC050

Tgt Ion:	180	Resp:	103265
Ion Ratio	Lower	Upper	
180	100		
182	93.9	46.9	140.8
145	32.5	16.3	48.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#94

Hexachlorobutadiene

Concen: 44.848 ug/l

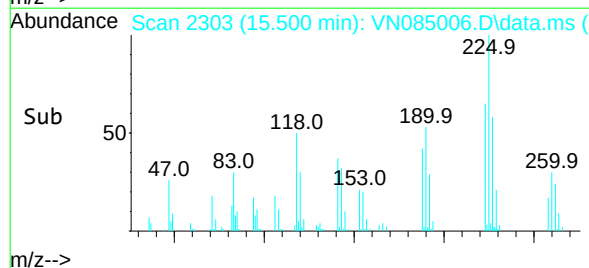
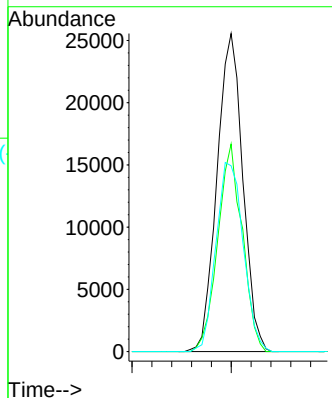
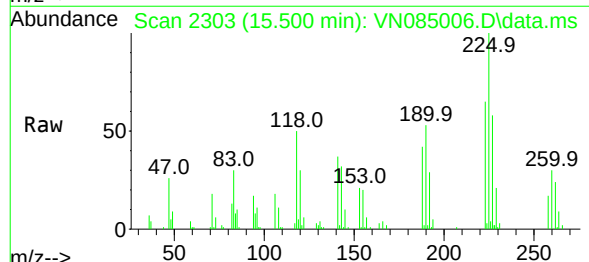
RT: 15.500 min Scan# 2303

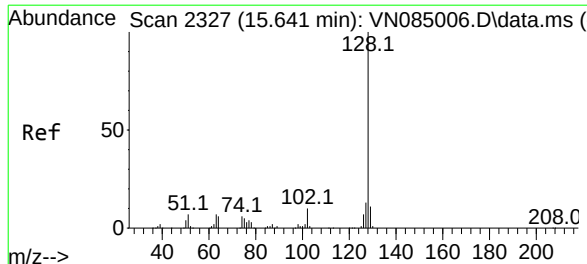
Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Tgt Ion:	225	Resp:	46186
Ion Ratio	Lower	Upper	
225	100		
223	61.9	30.9	92.8
227	63.0	31.5	94.5





#95

Naphthalene

Concen: 51.063 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Instrument :

MSVOA_N

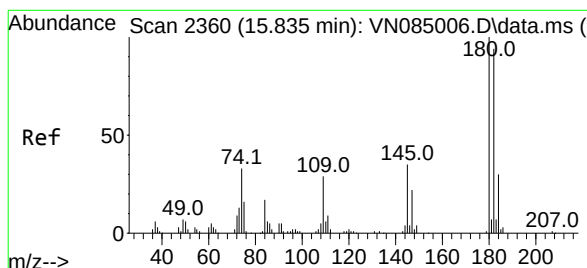
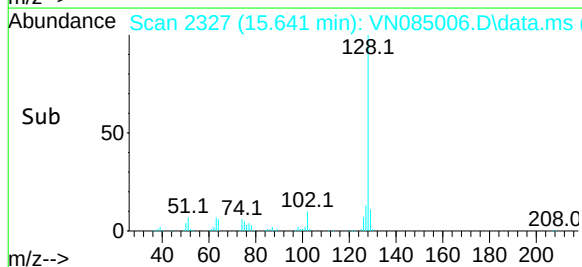
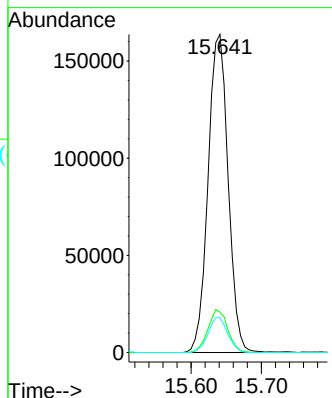
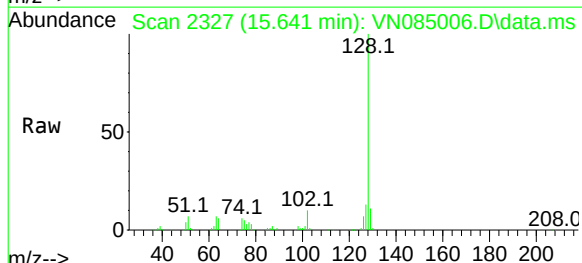
ClientSampleId :

VSTDICCC050

Tgt Ion:	128	Resp:	324523
Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.6	16.0
129	10.7	8.6	12.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#96

1,2,3-Trichlorobenzene

Concen: 48.269 ug/l

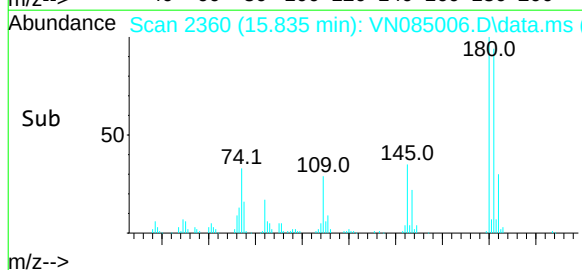
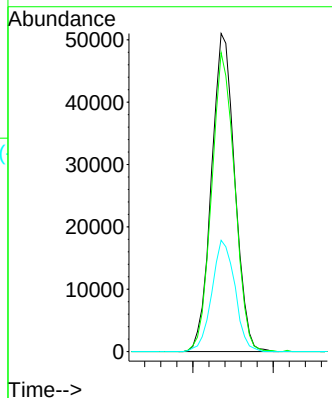
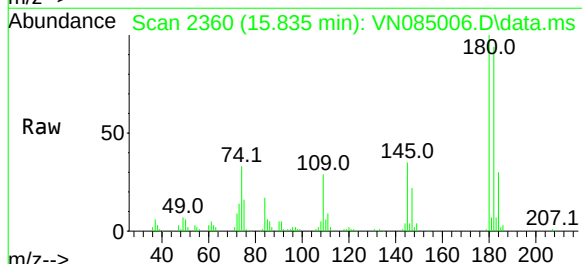
RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085006.D

Acq: 22 Nov 2024 11:46

Tgt Ion:	180	Resp:	102772
Ion	Ratio	Lower	Upper
180	100		
182	92.8	46.4	139.2
145	34.7	17.3	52.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
 Data File : VN085007.D
 Acq On : 22 Nov 2024 12:10
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC020

Quant Time: Nov 23 01:59:25 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 23 01:56:57 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 11/25/2024
 Supervised By : Mahesh Dadoda 11/25/2024

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	168636	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	283685	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	240895	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	116956	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	44399	18.483	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	36.960%#
35) Dibromofluoromethane	8.159	113	35327	18.466	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	36.940%#
50) Toluene-d8	10.565	98	130719	19.066	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	38.140%#
62) 4-Bromofluorobenzene	12.847	95	48193	18.797	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	37.600%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.118	85	38229	20.048	ug/l	99
3) Chloromethane	2.359	50	40404	18.269	ug/l	91
4) Vinyl Chloride	2.512	62	39070	19.658	ug/l	94
5) Bromomethane	2.900	94	22076	19.817	ug/l	98
6) Chloroethane	3.071	64	25643	19.141	ug/l	98
7) Trichlorofluoromethane	3.471	101	67785	20.049	ug/l	94
8) Diethyl Ether	3.953	74	23514	20.434	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.359	101	38412	20.031	ug/l	99
10) Methyl Iodide	4.571	142	52498	20.683	ug/l	98
11) Tert butyl alcohol	5.536	59	30735	95.749	ug/l #	85
12) 1,1-Dichloroethene	4.330	96	36027	20.128	ug/l	97
13) Acrolein	4.177	56	20478	95.606	ug/l	96
14) Allyl chloride	5.006	41	59110	19.590	ug/l	99
15) Acrylonitrile	5.712	53	89152	98.100	ug/l	99
16) Acetone	4.430	43	69534	99.393	ug/l	96
17) Carbon Disulfide	4.694	76	103559	19.602	ug/l	96
18) Methyl Acetate	5.018	43	46954	20.318	ug/l	99
19) Methyl tert-butyl Ether	5.788	73	119013	20.350	ug/l	98
20) Methylene Chloride	5.265	84	41741	19.553	ug/l	89
21) trans-1,2-Dichloroethene	5.777	96	38088	20.221	ug/l	98
22) Diisopropyl ether	6.665	45	122443	20.162	ug/l	99
23) Vinyl Acetate	6.594	43	431313	102.948	ug/l	99
24) 1,1-Dichloroethane	6.559	63	73105	20.116	ug/l	98
25) 2-Butanone	7.482	43	114635	100.226	ug/l	99
26) 2,2-Dichloropropane	7.482	77	66230	19.517	ug/l	97
27) cis-1,2-Dichloroethene	7.482	96	45307	19.953	ug/l	99
28) Bromochloromethane	7.806	49	27564	20.092	ug/l	99
29) Tetrahydrofuran	7.835	42	71566	100.618	ug/l	99
30) Chloroform	7.953	83	74495	19.270	ug/l	94
31) Cyclohexane	8.247	56	63521	19.852	ug/l	96
32) 1,1,1-Trichloroethane	8.159	97	68908	19.725	ug/l	97
36) 1,1-Dichloropropene	8.365	75	51535	19.888	ug/l	98
37) Ethyl Acetate	7.559	43	48436	20.561	ug/l	99
38) Carbon Tetrachloride	8.359	117	61594	20.593	ug/l	97
39) Methylcyclohexane	9.600	83	55102	20.464	ug/l	98
40) Benzene	8.600	78	163727	19.977	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
 Data File : VN085007.D
 Acq On : 22 Nov 2024 12:10
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024

Quant Time: Nov 23 01:59:25 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M

Quant Title : SW846 8260

QLast Update : Sat Nov 23 01:56:57 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	26011	19.942	ug/l	99
42) 1,2-Dichloroethane	8.665	62	56374	20.106	ug/l	99
43) Isopropyl Acetate	8.682	43	88647	18.116	ug/l	98
44) Trichloroethene	9.347	130	38334	20.127	ug/l	96
45) 1,2-Dichloropropane	9.618	63	39852	19.742	ug/l	96
46) Dibromomethane	9.706	93	28140	20.062	ug/l	98
47) Bromodichloromethane	9.882	83	59008	19.849	ug/l	97
48) Methyl methacrylate	9.676	41	36687	20.148	ug/l	98
49) 1,4-Dioxane	9.694	88	12977	410.958	ug/l #	89
51) 4-Methyl-2-Pentanone	10.441	43	230239	103.015	ug/l	99
52) Toluene	10.629	92	100021	20.615	ug/l	99
53) t-1,3-Dichloropropene	10.829	75	61215	20.539	ug/l	100
54) cis-1,3-Dichloropropene	10.306	75	64823	20.501	ug/l	99
55) 1,1,2-Trichloroethane	11.012	97	36732	20.326	ug/l	96
56) Ethyl methacrylate	10.871	69	55691	21.089	ug/l	98
57) 1,3-Dichloropropane	11.159	76	63314	19.906	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	137602	106.227	ug/l	100
59) 2-Hexanone	11.194	43	179717	107.514	ug/l	99
60) Dibromochloromethane	11.353	129	44450	20.126	ug/l	97
61) 1,2-Dibromoethane	11.465	107	37228	19.905	ug/l	99
64) Tetrachloroethene	11.100	164	32716	20.155	ug/l	93
65) Chlorobenzene	11.888	112	108255	19.815	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	37404	19.446	ug/l	98
67) Ethyl Benzene	11.959	91	181169	20.440	ug/l	98
68) m/p-Xylenes	12.070	106	141133	41.824	ug/l	99
69) o-Xylene	12.394	106	66013	20.565	ug/l	97
70) Styrene	12.406	104	113503	21.263	ug/l	99
71) Bromoform	12.576	173	28783	20.159	ug/l #	98
73) Isopropylbenzene	12.694	105	168631	20.438	ug/l	100
74) N-amyl acetate	12.494	43	72208	21.238	ug/l	99
75) 1,1,1,2-Tetrachloroethane	12.935	83	53889	19.127	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	43650m	19.951	ug/l	
77) Bromobenzene	12.976	156	43298	19.500	ug/l	99
78) n-propylbenzene	13.035	91	196551	20.653	ug/l	99
79) 2-Chlorotoluene	13.123	91	128714	20.261	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	145726	21.048	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	18860	20.144	ug/l	99
82) 4-Chlorotoluene	13.217	91	133131	20.131	ug/l	99
83) tert-Butylbenzene	13.435	119	121188	20.344	ug/l	99
84) 1,2,4-Trimethylbenzene	13.476	105	149479	20.974	ug/l	99
85) sec-Butylbenzene	13.611	105	168068	20.885	ug/l	100
86) p-Isopropyltoluene	13.729	119	143841	21.653	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	83500	19.066	ug/l	99
88) 1,4-Dichlorobenzene	13.811	146	85098	19.041	ug/l	99
89) n-Butylbenzene	14.053	91	122257	19.790	ug/l	100
90) Hexachloroethane	14.329	117	27899	19.267	ug/l	97
91) 1,2-Dichlorobenzene	14.106	146	82164	19.579	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	10633	19.517	ug/l	96
93) 1,2,4-Trichlorobenzene	15.388	180	44383	19.467	ug/l	98
94) Hexachlorobutadiene	15.500	225	20642	19.618	ug/l	95
95) Naphthalene	15.641	128	132816	20.454	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	44145	20.293	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085007.D
Acq On : 22 Nov 2024 12:10
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024

Quant Time: Nov 23 01:59:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 2024
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\VN112224\
 Data File : VN085007.D
 Acq On : 22 Nov 2024 12:10
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

MSVOA_N

Client Sample Id :

VSTDICC020

Manual Integrations

APPROVED

Reviewed By : John Carlone 11/25/2024

Supervised By : Mahesh Dadoda 11/25/2024

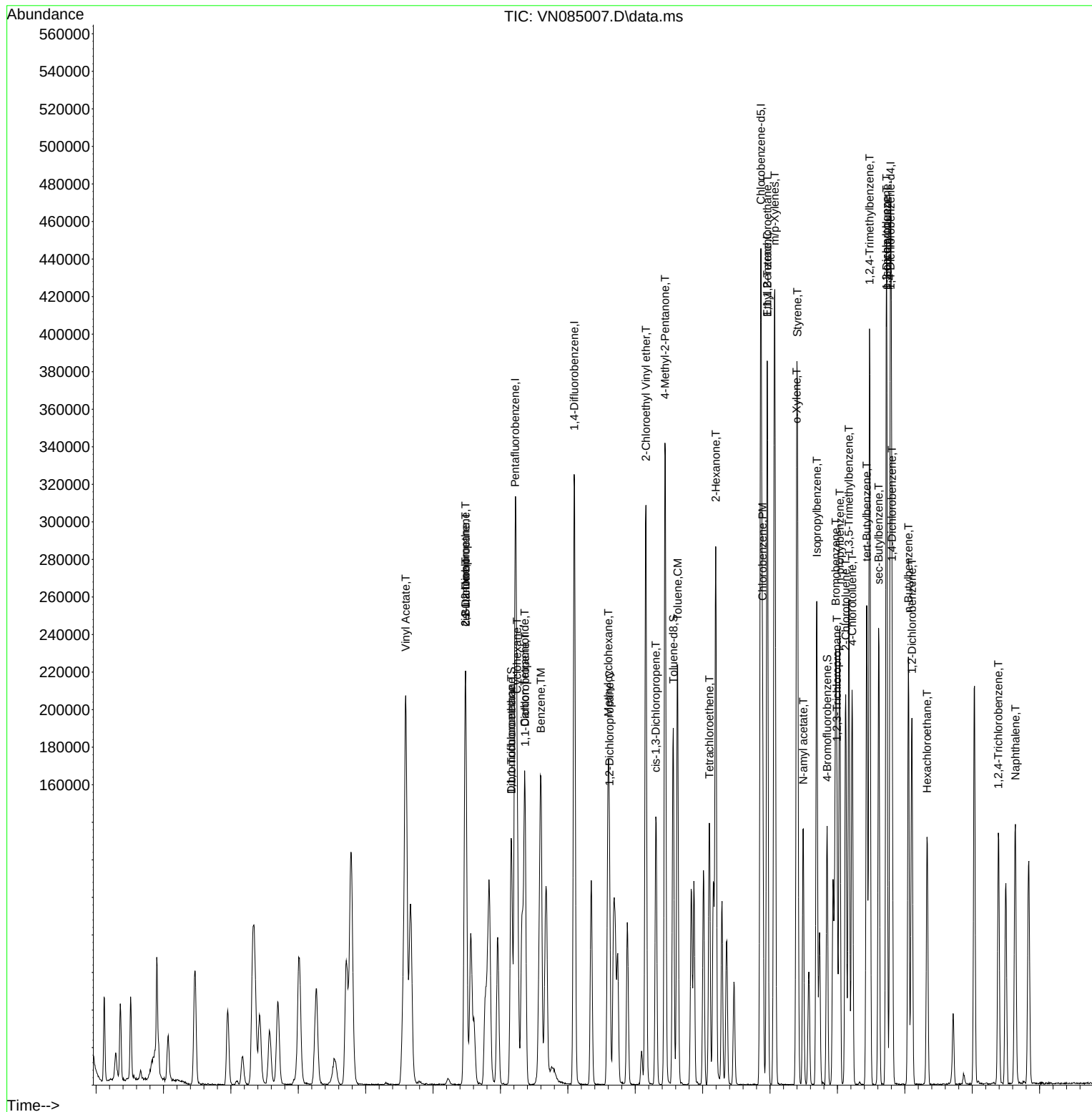
Quant Time: Nov 23 01:59:25 2024

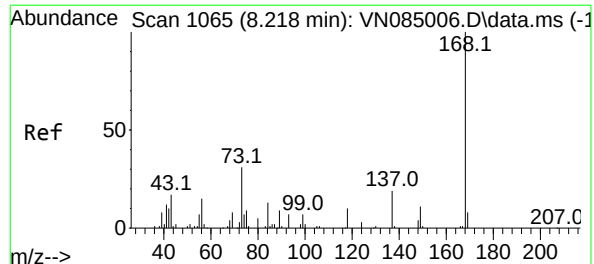
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M

Quant Title : SW846 8260

QLast Update : Sat Nov 23 01:56:57 2024

Response via : Initial Calibration





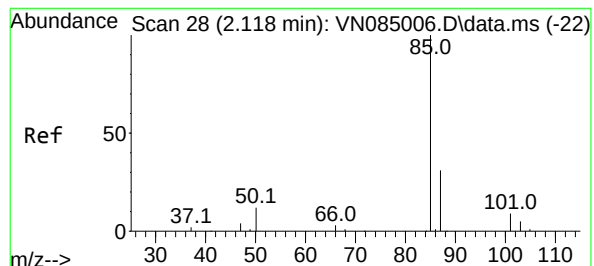
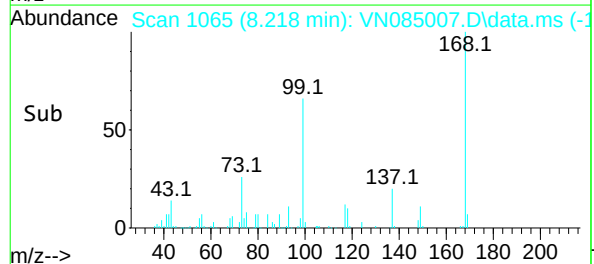
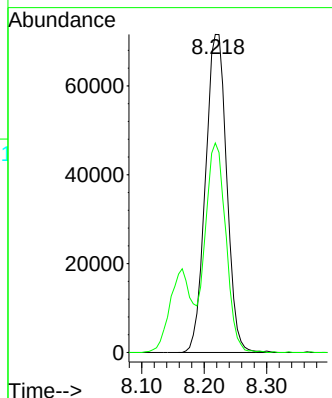
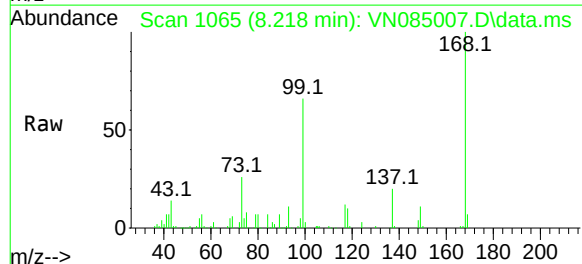
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085007.D
Acq: 22 Nov 2024 12:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 168 Resp: 168636
Ion Ratio Lower Upper
168 100
99 65.9 51.2 76.8

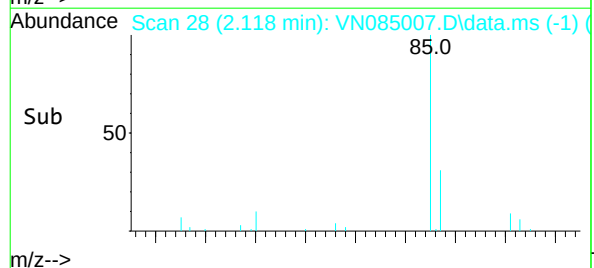
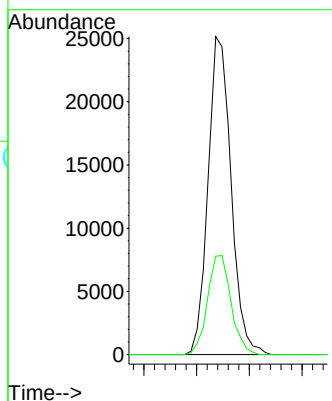
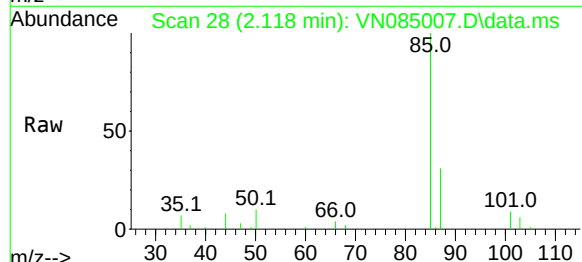
Manual Integrations
APPROVED

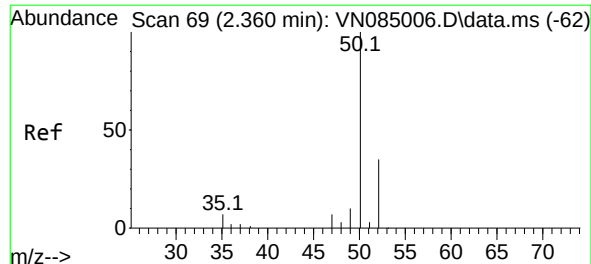
Reviewed By : John Carlone 11/25/2024
Supervised By : Mahesh Dadoda 11/25/2024



#2
Dichlorodifluoromethane
Concen: 20.048 ug/l
RT: 2.118 min Scan# 28
Delta R.T. -0.000 min
Lab File: VN085007.D
Acq: 22 Nov 2024 12:10

Tgt Ion: 85 Resp: 38229
Ion Ratio Lower Upper
85 100
87 30.9 15.7 47.1





#3

Chloromethane

Concen: 18.269 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 50 Resp: 40404

Ion Ratio Lower Upper

50 100

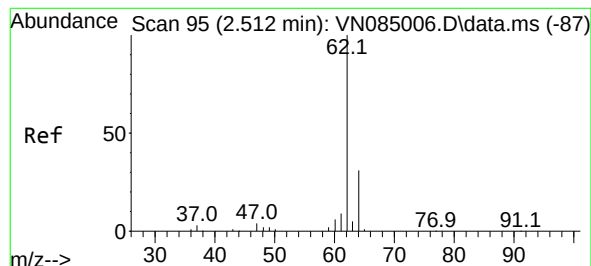
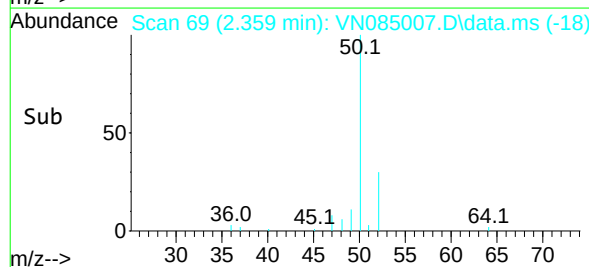
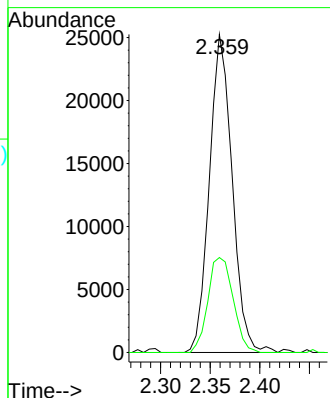
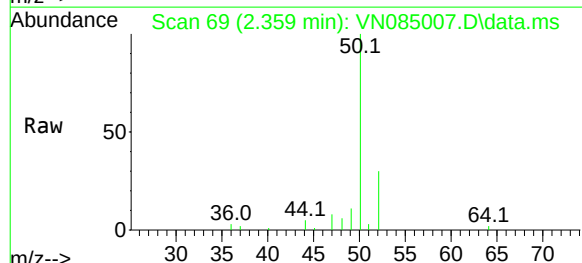
52 29.9 27.8 41.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#4

Vinyl Chloride

Concen: 19.658 ug/l

RT: 2.512 min Scan# 95

Delta R.T. -0.000 min

Lab File: VN085007.D

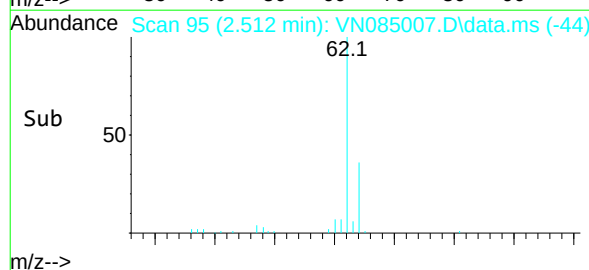
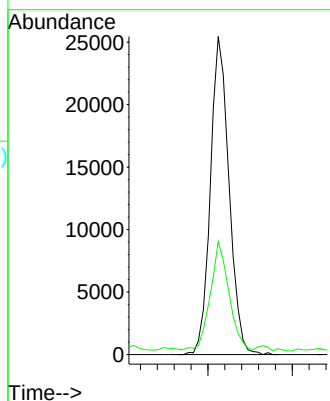
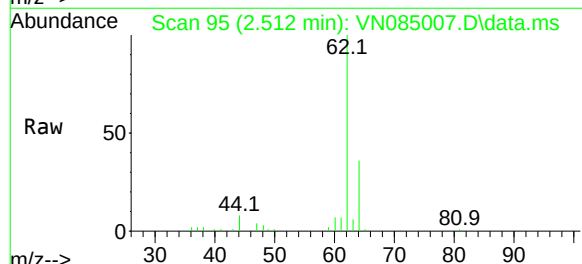
Acq: 22 Nov 2024 12:10

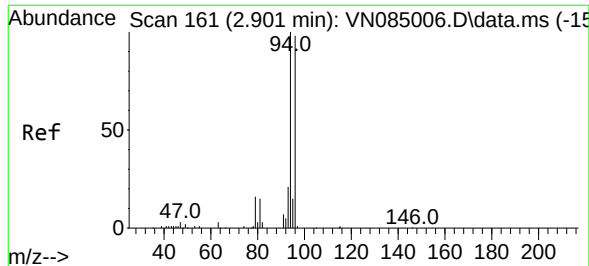
Tgt Ion: 62 Resp: 39070

Ion Ratio Lower Upper

62 100

64 33.9 24.6 36.8





#5

Bromomethane

Concen: 19.817 ug/l

RT: 2.900 min Scan# 161

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 94 Resp: 22076

Ion Ratio Lower Upper

94 100

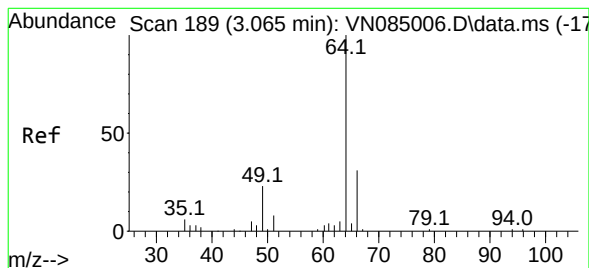
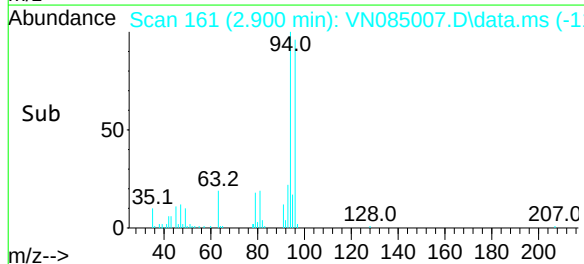
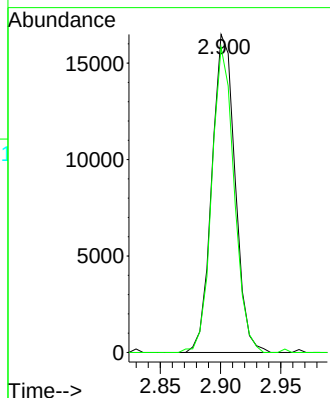
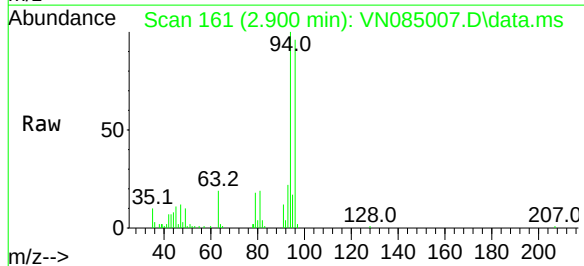
96 96.0 78.7 118.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#6

Chloroethane

Concen: 19.141 ug/l

RT: 3.071 min Scan# 190

Delta R.T. 0.006 min

Lab File: VN085007.D

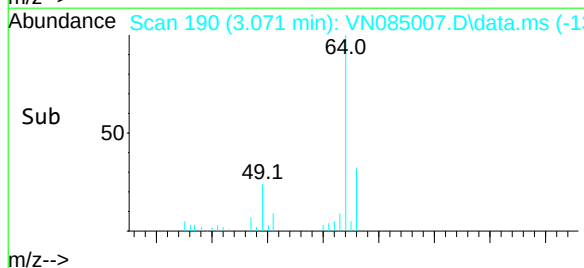
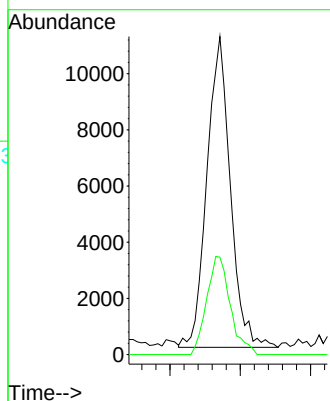
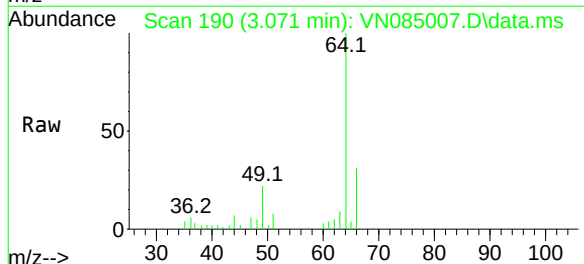
Acq: 22 Nov 2024 12:10

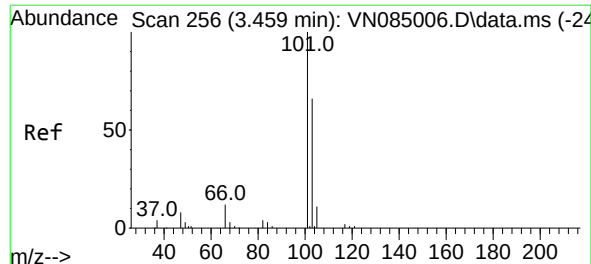
Tgt Ion: 64 Resp: 25643

Ion Ratio Lower Upper

64 100

66 31.3 24.4 36.6





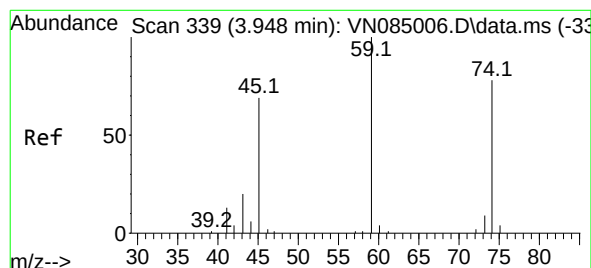
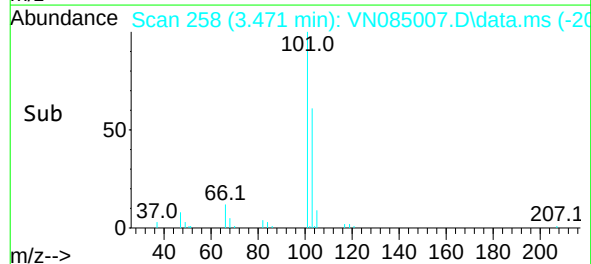
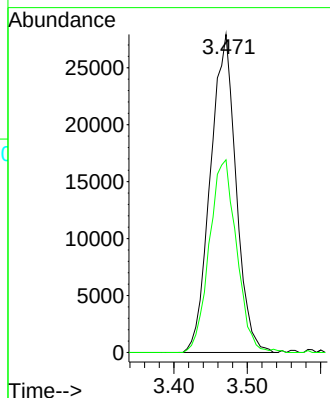
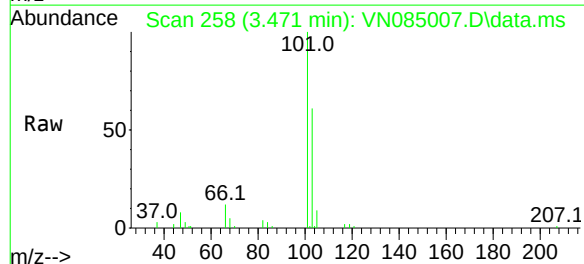
#7
Trichlorofluoromethane
Concen: 20.049 ug/l
RT: 3.471 min Scan# 256
Delta R.T. 0.012 min
Lab File: VN085007.D
Acq: 22 Nov 2024 12:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 101 Resp: 67785
Ion Ratio Lower Upper
101 100
103 60.6 52.6 78.8

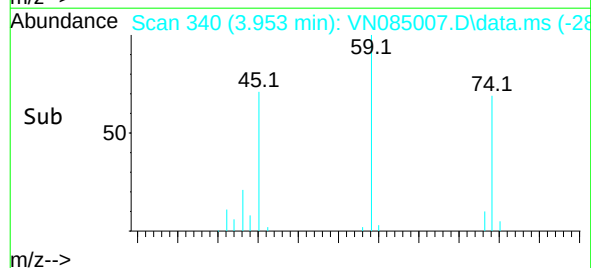
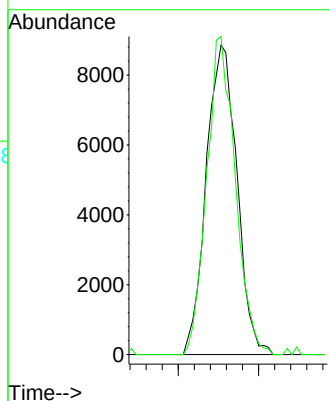
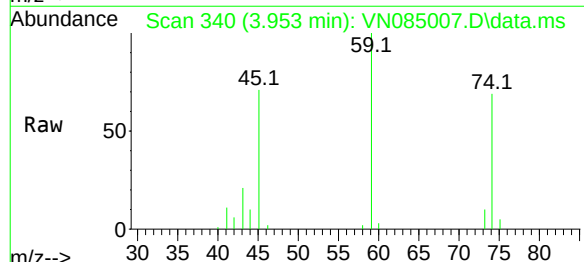
Manual Integrations
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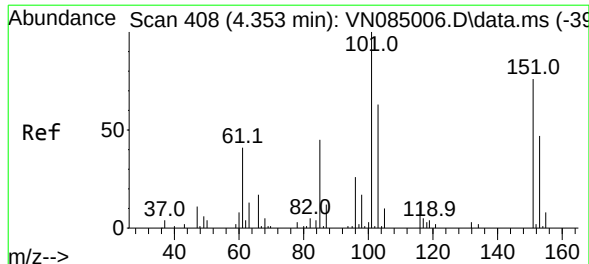
Reviewed By : John Carlone 11/25/2024
Supervised By : Mahesh Dadoda 11/25/2024



#8
Diethyl Ether
Concen: 20.434 ug/l
RT: 3.953 min Scan# 340
Delta R.T. 0.006 min
Lab File: VN085007.D
Acq: 22 Nov 2024 12:10

Tgt Ion: 74 Resp: 23514
Ion Ratio Lower Upper
74 100
45 95.8 46.7 140.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.031 ug/l

RT: 4.359 min Scan# 408

Delta R.T. 0.006 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

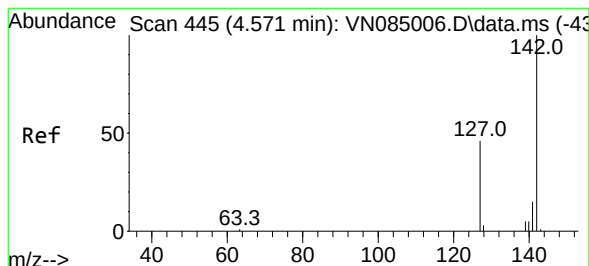
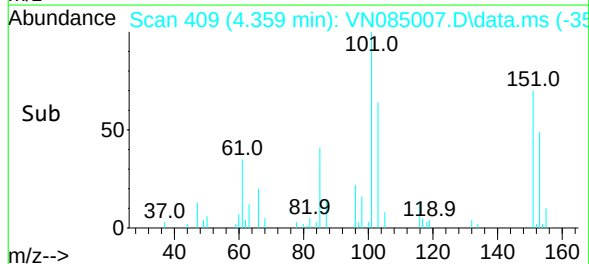
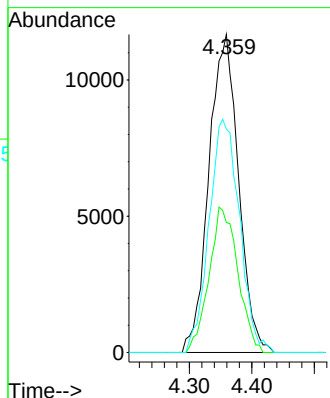
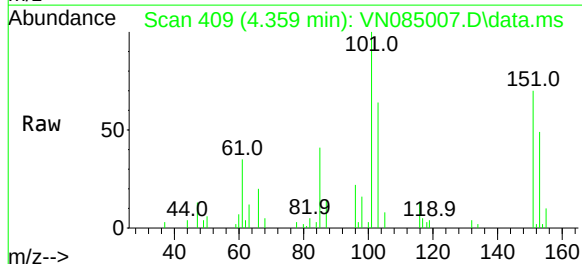
ClientSampleId :

VSTDICC020

Tgt Ion:	101	Resp:	38412
Ion	Ratio	Lower	Upper
101	100		
85	44.4	36.9	55.3
151	75.5	60.8	91.2

Manual Integrations
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Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#10

Methyl Iodide

Concen: 20.683 ug/l

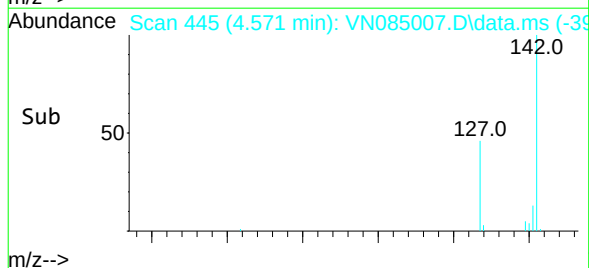
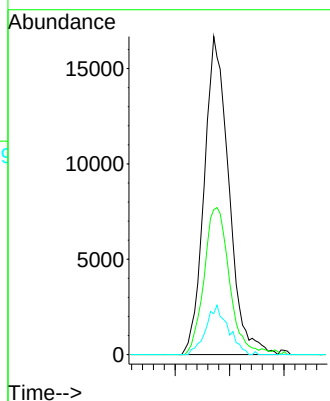
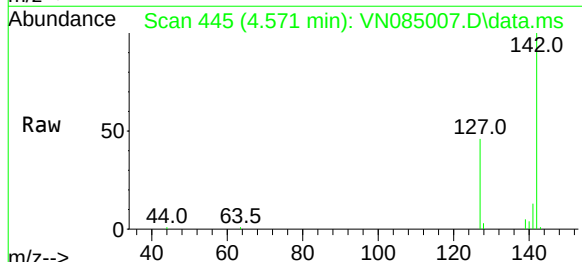
RT: 4.571 min Scan# 445

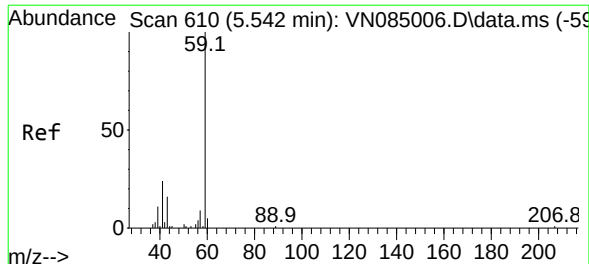
Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Tgt Ion:	142	Resp:	52498
Ion	Ratio	Lower	Upper
142	100		
127	45.5	36.6	54.8
141	12.9	12.2	18.4





#11

Tert butyl alcohol

Concen: 95.749 ug/l

RT: 5.536 min Scan# 609

Delta R.T. -0.006 min

Lab File: VN085007.D

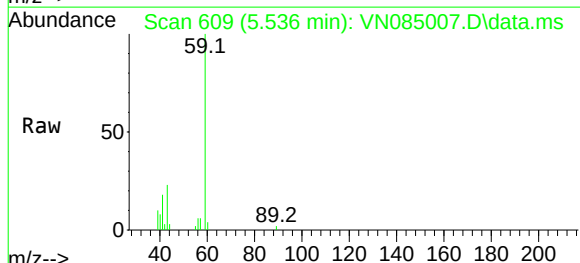
Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020



Tgt Ion: 59 Resp: 30735

Ion Ratio Lower Upper

59 100

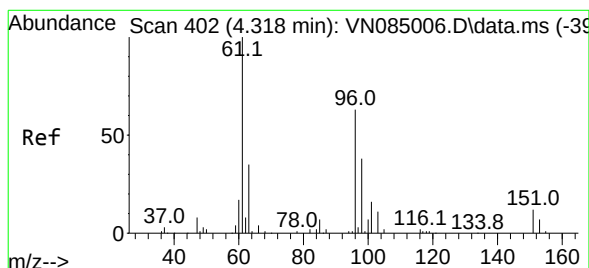
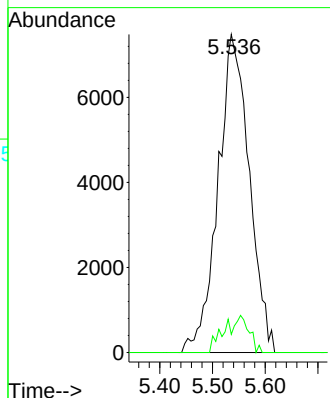
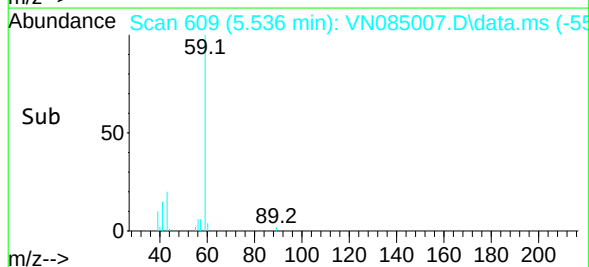
57 3.7 7.4 11.0

Manual Integrations

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Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#12

1,1-Dichloroethene

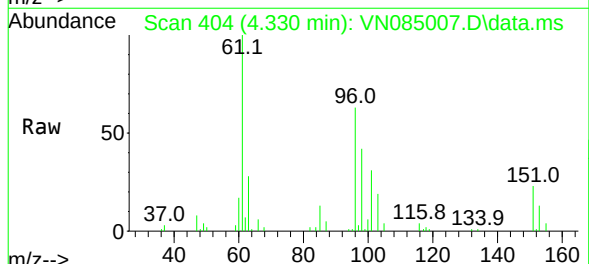
Concen: 20.128 ug/l

RT: 4.330 min Scan# 404

Delta R.T. 0.012 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10



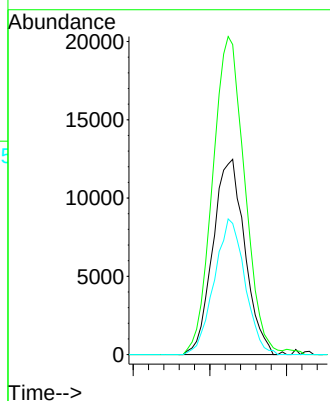
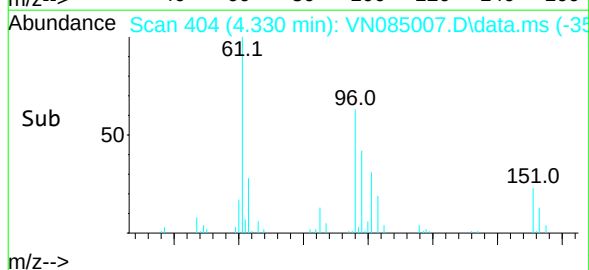
Tgt Ion: 96 Resp: 36027

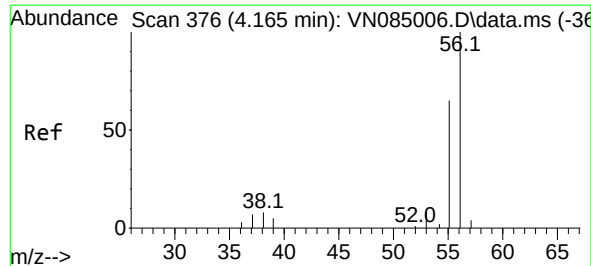
Ion Ratio Lower Upper

96 100

61 158.7 127.8 191.8

98 67.1 49.2 73.8





#13

Acrolein

Concen: 95.606 ug/l

RT: 4.177 min Scan# 376

Delta R.T. 0.012 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 56 Resp: 20478

Ion Ratio Lower Upper

56 100

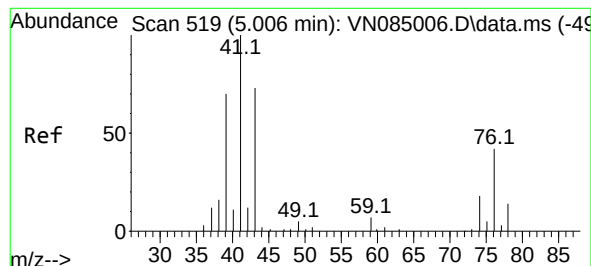
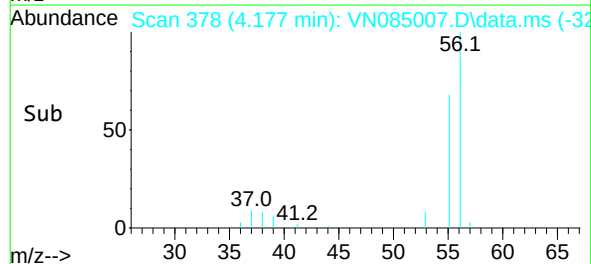
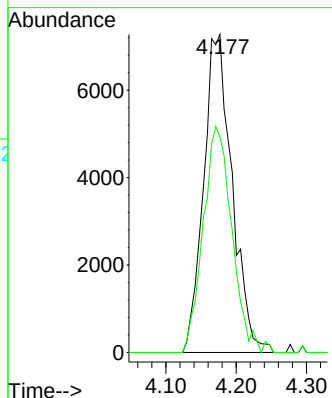
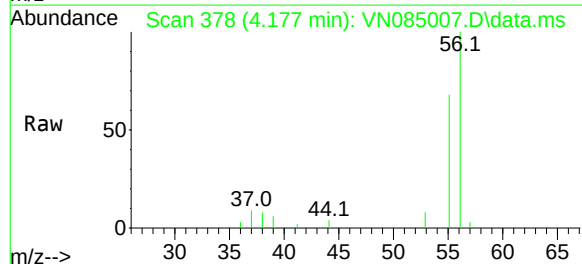
55 71.2 54.5 81.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#14

Allyl chloride

Concen: 19.590 ug/l

RT: 5.006 min Scan# 519

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

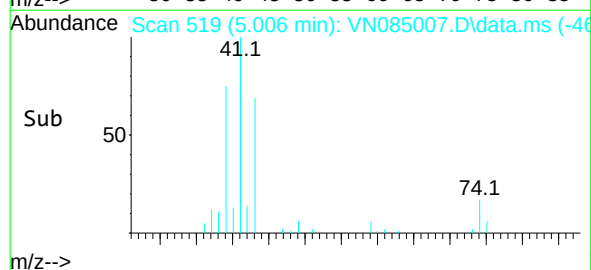
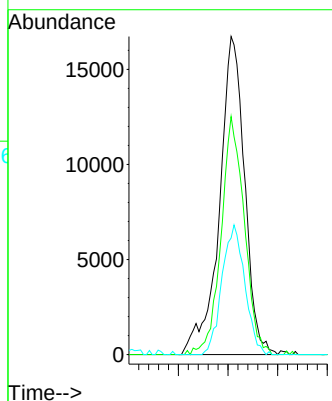
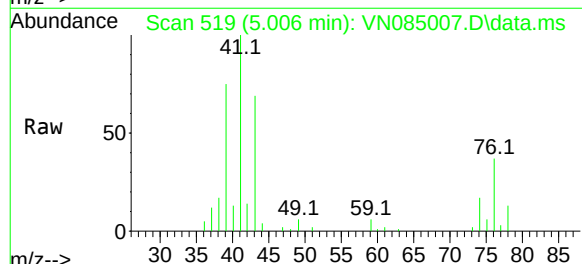
Tgt Ion: 41 Resp: 59110

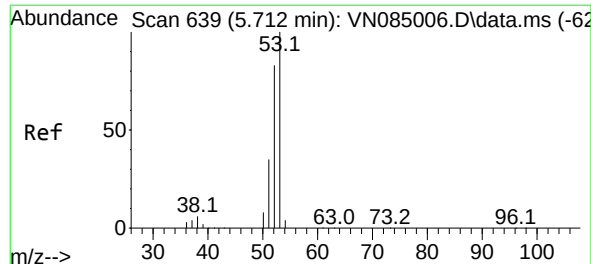
Ion Ratio Lower Upper

41 100

39 68.7 53.8 80.8

76 36.9 29.3 43.9





#15

Acrylonitrile

Concen: 98.100 ug/l

RT: 5.712 min Scan# 639

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

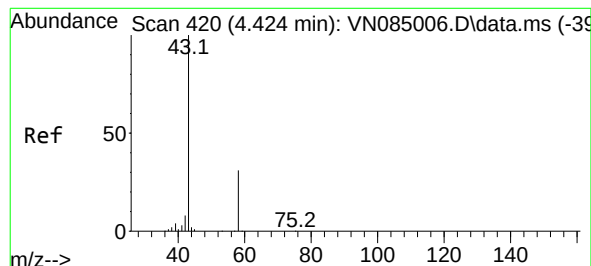
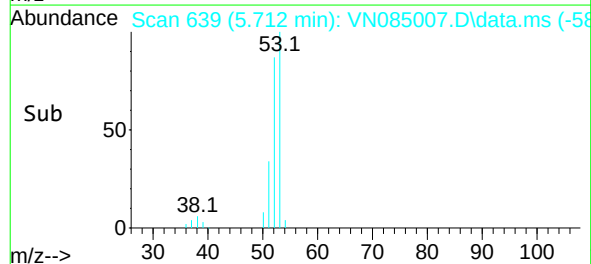
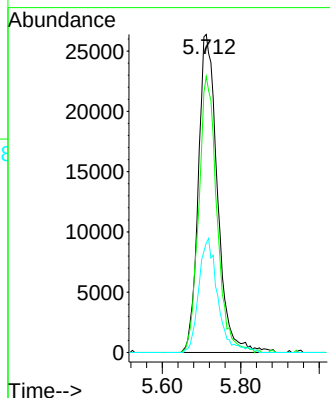
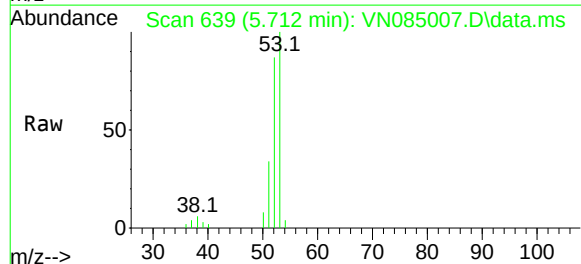
ClientSampleId :

VSTDICC020

Tgt Ion:	53	Resp:	89152
Ion	Ratio	Lower	Upper
53	100		
52	82.4	65.5	98.3
51	35.8	28.4	42.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#16

Acetone

Concen: 99.393 ug/l

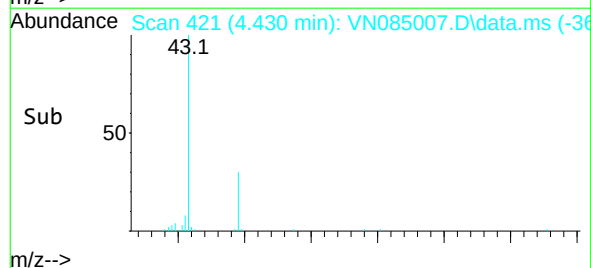
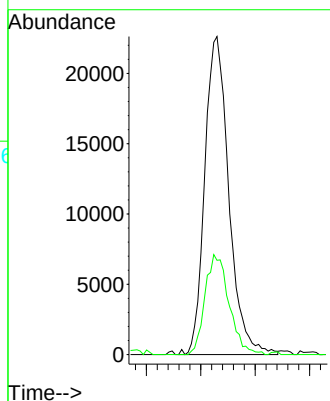
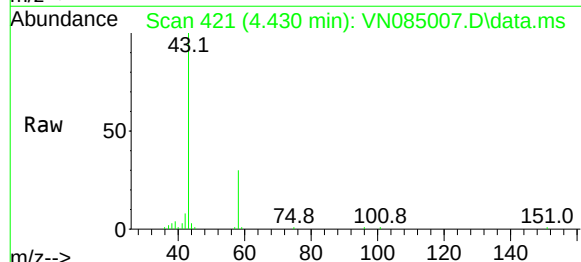
RT: 4.430 min Scan# 421

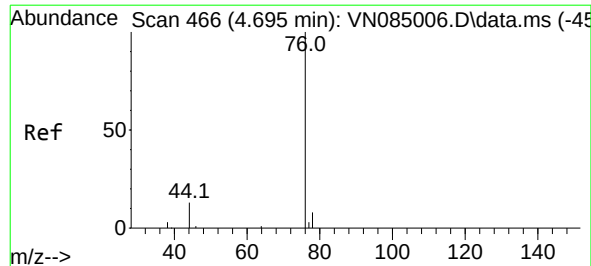
Delta R.T. 0.006 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Tgt Ion:	43	Resp:	69534
Ion	Ratio	Lower	Upper
43	100		
58	29.6	25.4	38.2





#17

Carbon Disulfide

Concen: 19.602 ug/l

RT: 4.694 min Scan# 466

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 76 Resp: 103559

Ion Ratio Lower Upper

76 100

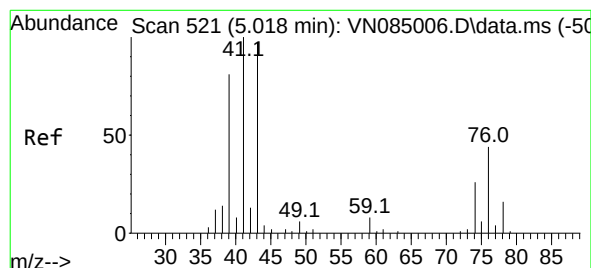
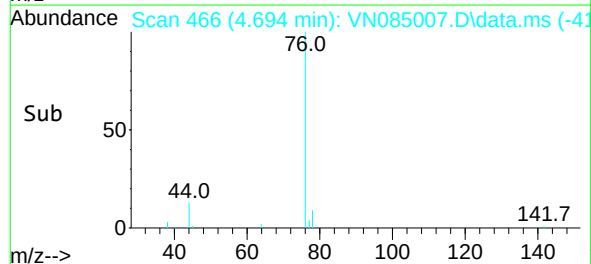
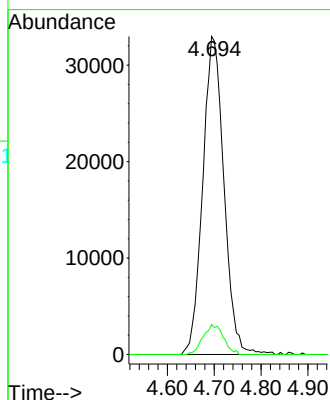
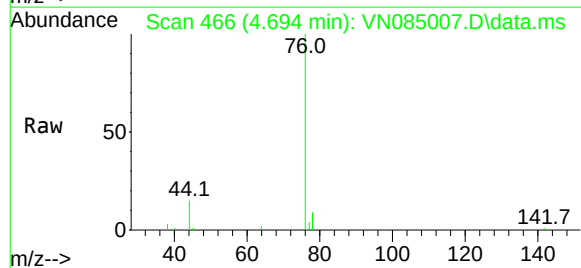
78 9.4 6.5 9.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#18

Methyl Acetate

Concen: 20.318 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN085007.D

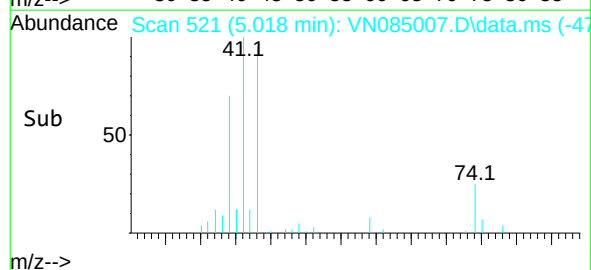
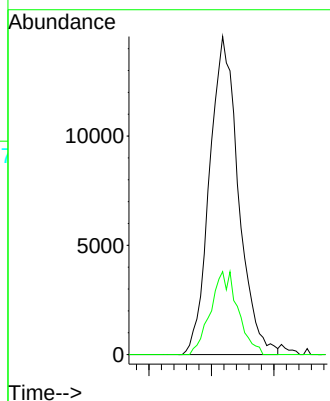
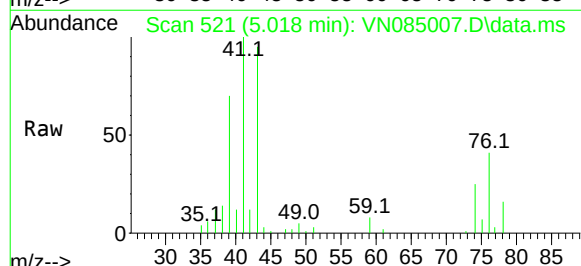
Acq: 22 Nov 2024 12:10

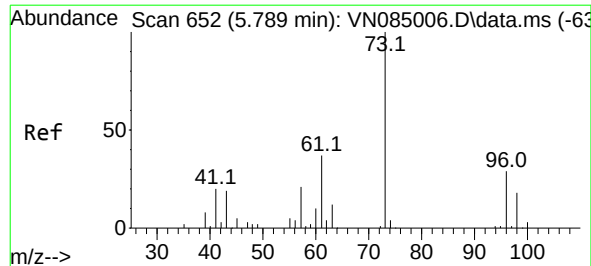
Tgt Ion: 43 Resp: 46954

Ion Ratio Lower Upper

43 100

74 24.7 20.1 30.1





#19

Methyl tert-butyl Ether

Concen: 20.350 ug/l

RT: 5.788 min Scan# 65

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 73 Resp: 119013

Ion Ratio Lower Upper

73 100

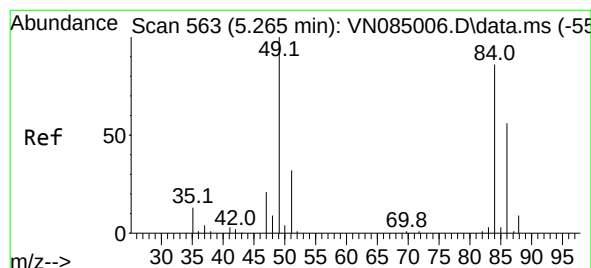
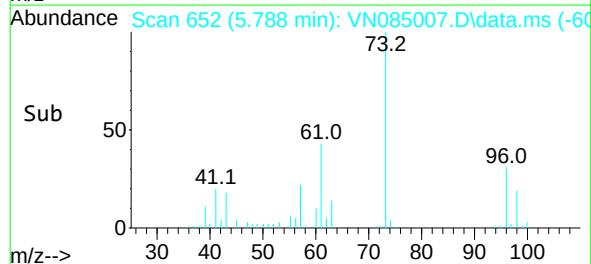
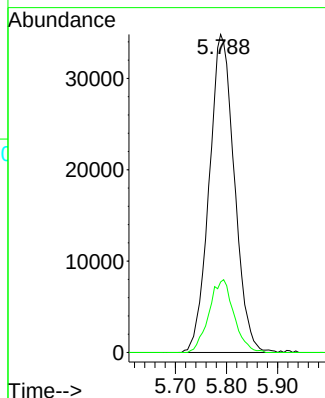
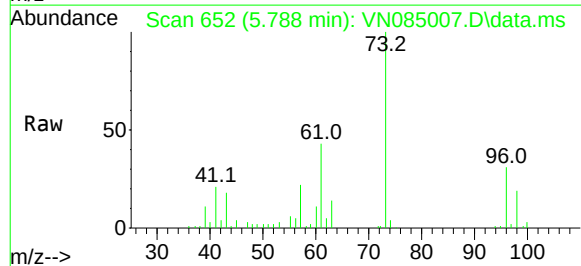
57 22.2 17.0 25.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#20

Methylene Chloride

Concen: 19.553 ug/l

RT: 5.265 min Scan# 563

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Tgt Ion: 84 Resp: 41741

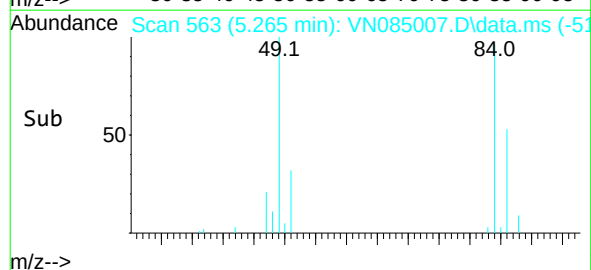
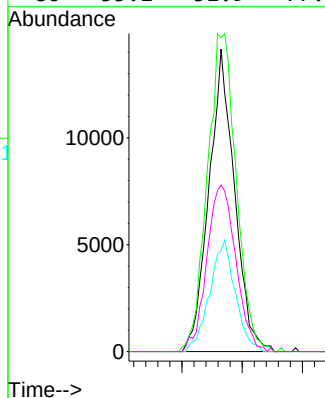
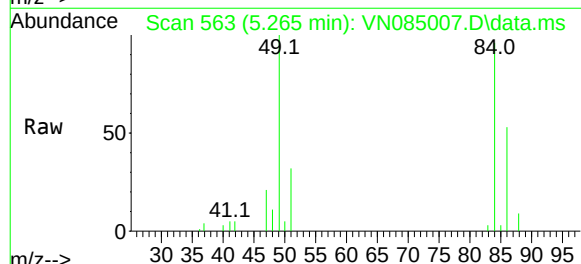
Ion Ratio Lower Upper

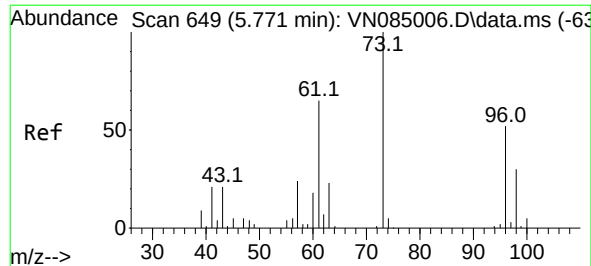
84 100

49 103.7 92.7 139.1

51 33.4 29.4 44.2

86 55.1 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 20.221 ug/l

RT: 5.777 min Scan# 65

Delta R.T. 0.006 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 96 Resp: 38088

Ion Ratio Lower Upper

96 100

61 124.5 100.7 151.1

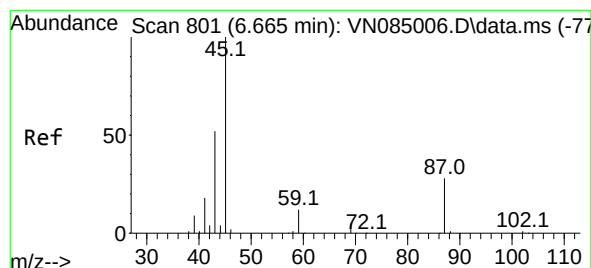
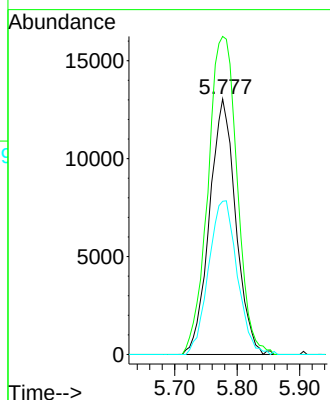
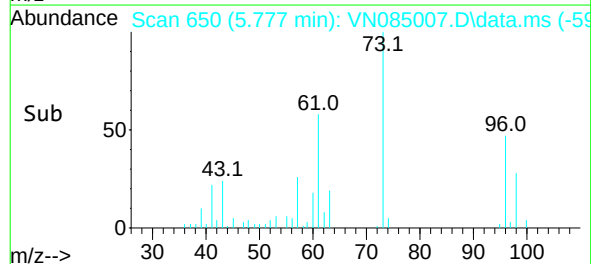
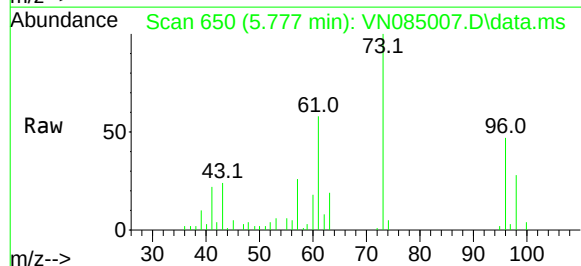
98 60.0 45.8 68.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#22

Diisopropyl ether

Concen: 20.162 ug/l

RT: 6.665 min Scan# 801

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Tgt Ion: 45 Resp: 122443

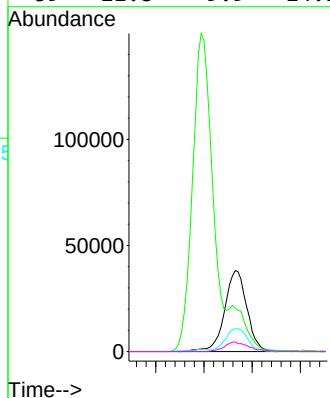
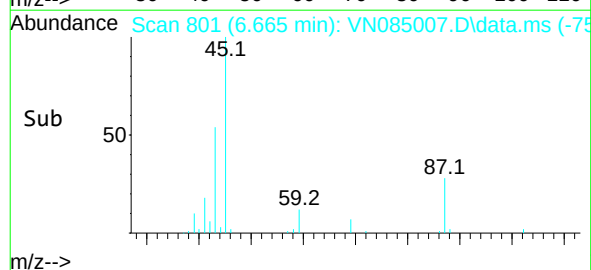
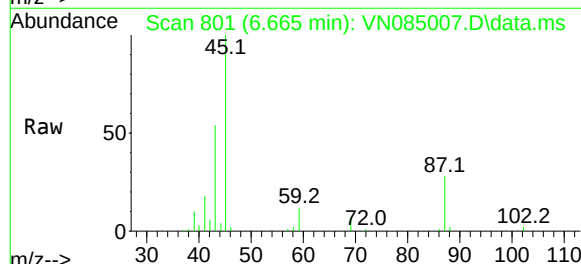
Ion Ratio Lower Upper

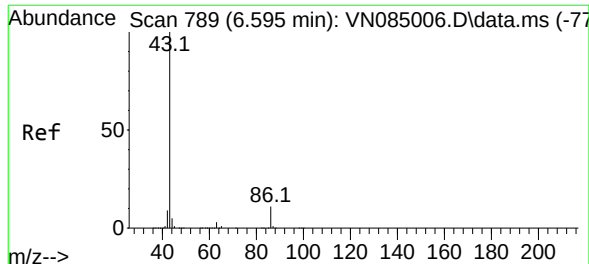
45 100

43 52.2 42.7 64.1

87 28.2 22.6 34.0

59 11.8 9.9 14.9





#23

Vinyl Acetate

Concen: 102.948 ug/l

RT: 6.594 min Scan# 789

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 431313

Ion Ratio Lower Upper

43 100

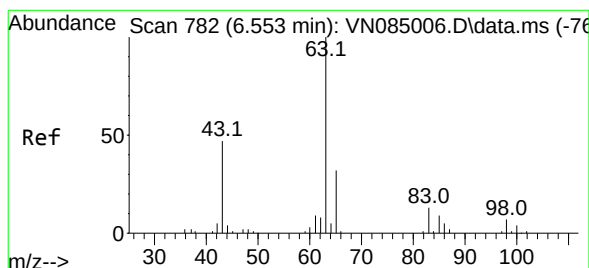
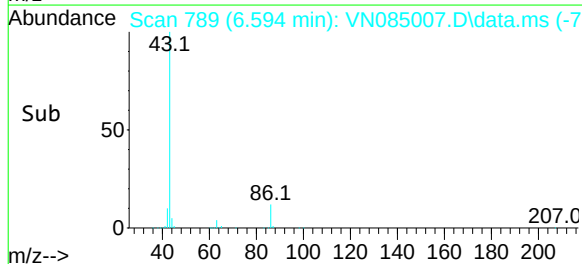
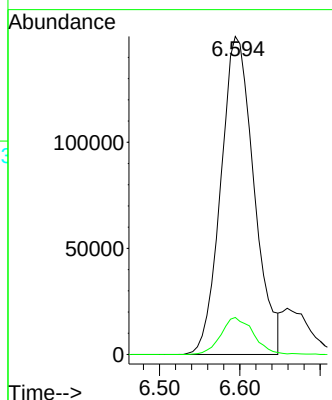
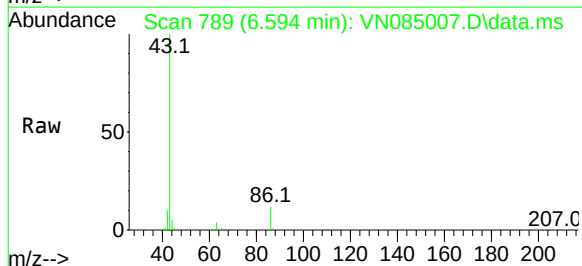
86 11.6 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#24

1,1-Dichloroethane

Concen: 20.116 ug/l

RT: 6.559 min Scan# 783

Delta R.T. 0.006 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

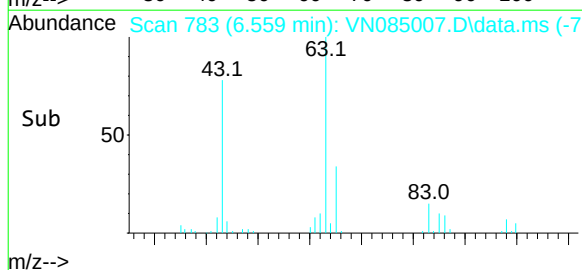
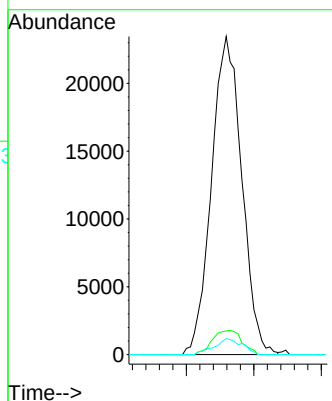
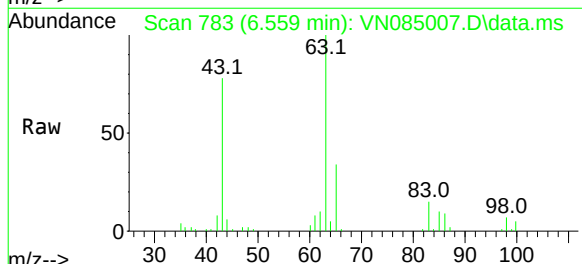
Tgt Ion: 63 Resp: 73105

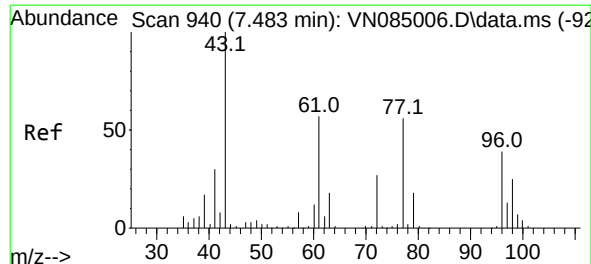
Ion Ratio Lower Upper

63 100

98 7.4 3.3 9.8

100 5.0 2.2 6.6





#25

2-Butanone

Concen: 100.226 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 114635

Ion Ratio Lower Upper

43 100

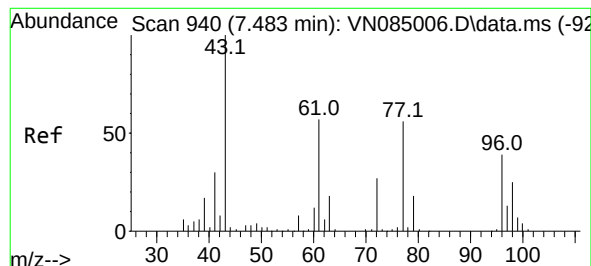
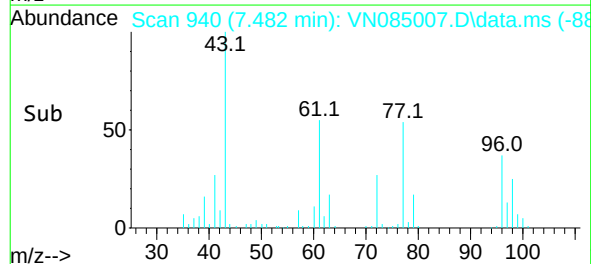
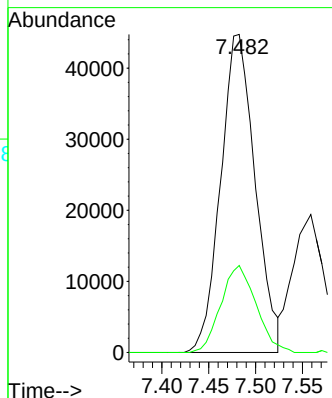
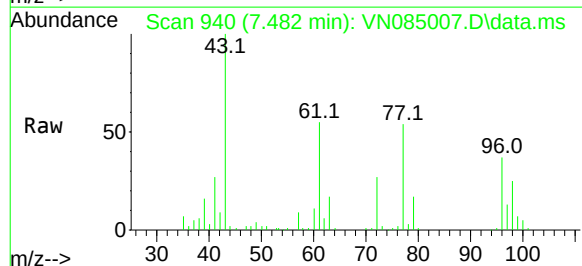
72 27.4 21.4 32.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#26

2,2-Dichloropropane

Concen: 19.517 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN085007.D

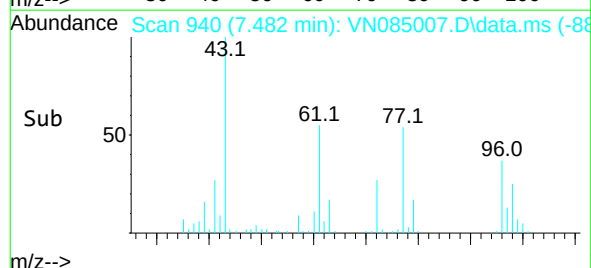
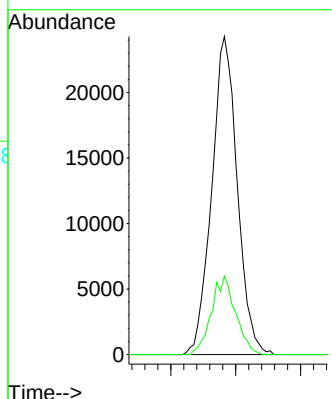
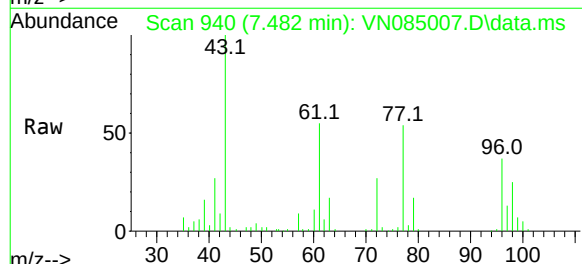
Acq: 22 Nov 2024 12:10

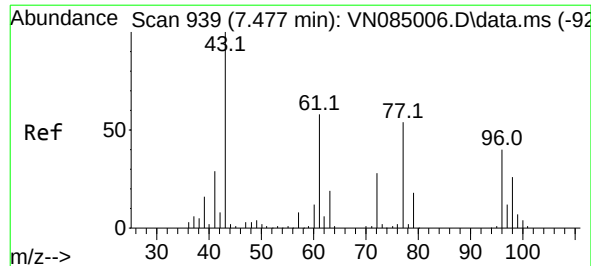
Tgt Ion: 77 Resp: 66230

Ion Ratio Lower Upper

77 100

97 23.4 10.9 32.7





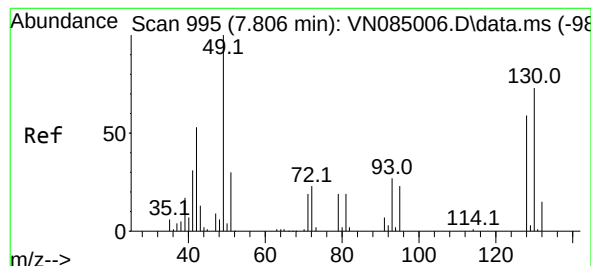
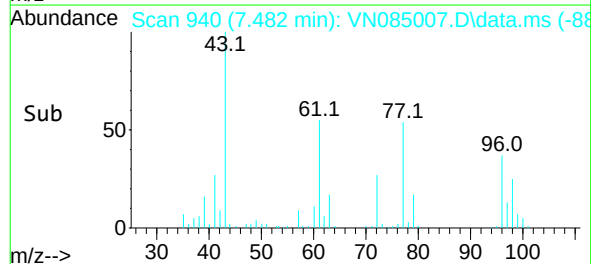
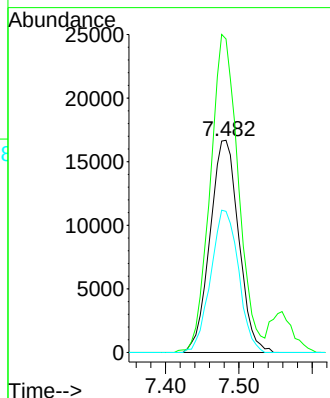
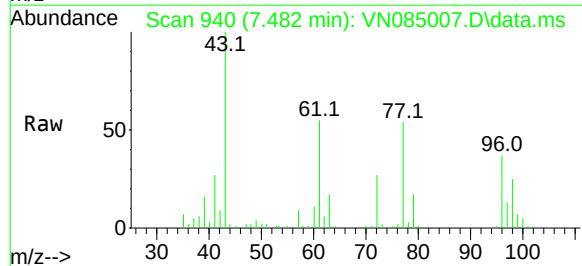
#27
cis-1,2-Dichloroethene
Concen: 19.953 ug/l
RT: 7.482 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN085007.D
Acq: 22 Nov 2024 12:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 45307
Ion Ratio Lower Upper
96 100
61 147.1 0.0 291.6
98 65.1 0.0 129.8

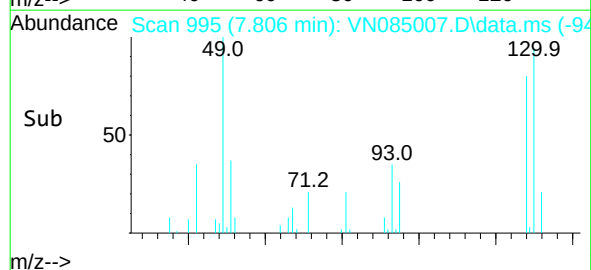
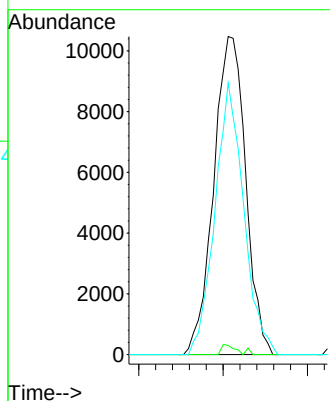
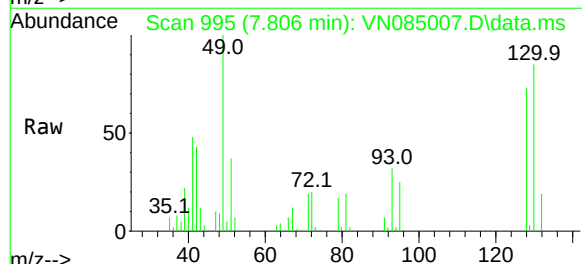
Manual Integrations
APPROVED

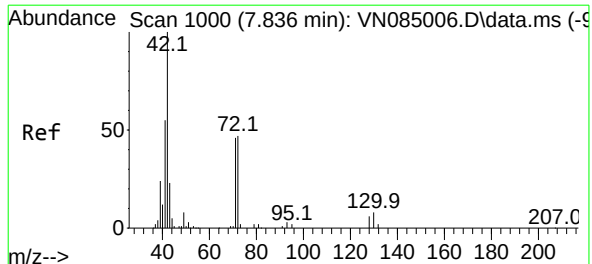
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#28
Bromochloromethane
Concen: 20.092 ug/l
RT: 7.806 min Scan# 995
Delta R.T. -0.000 min
Lab File: VN085007.D
Acq: 22 Nov 2024 12:10

Tgt Ion: 49 Resp: 27564
Ion Ratio Lower Upper
49 100
129 1.3 0.0 4.0
130 77.0 60.6 90.8





#29

Tetrahydrofuran

Concen: 100.618 ug/l

RT: 7.835 min Scan# 10

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

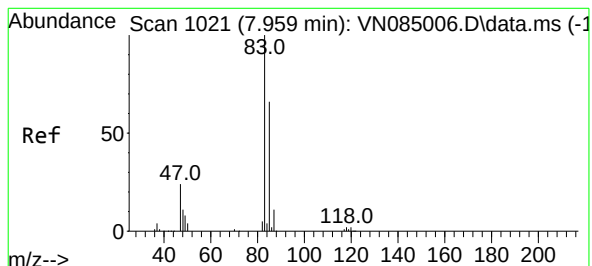
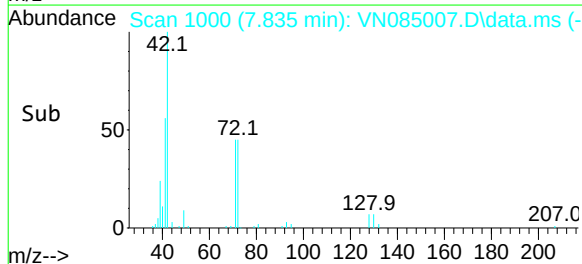
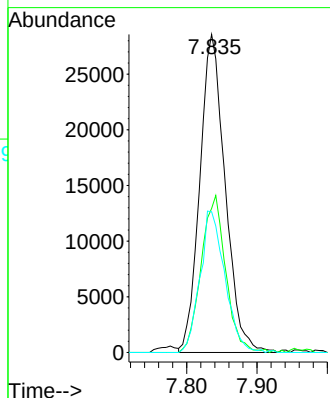
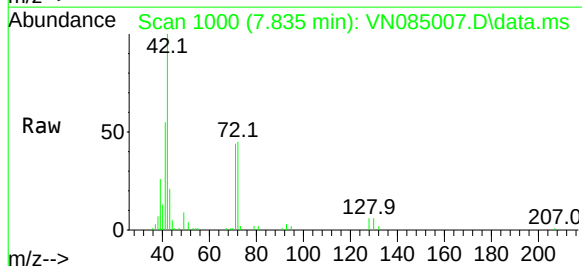
ClientSampleId :

VSTDICC020

Tgt Ion:	42	Resp:	71566
Ion	Ratio	Lower	Upper
42	100		
72	47.8	37.0	55.4
71	43.8	35.0	52.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#30

Chloroform

Concen: 19.270 ug/l

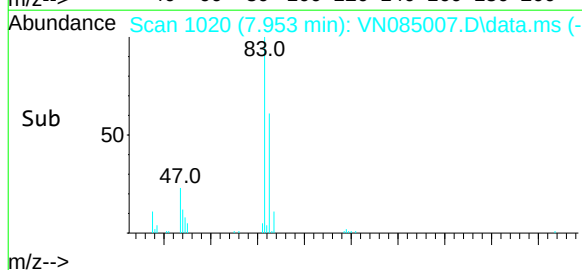
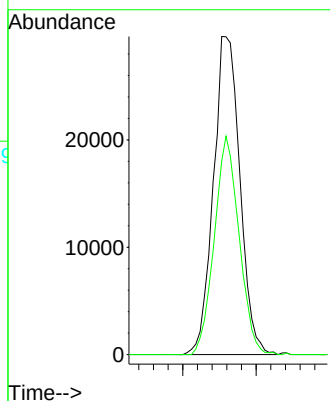
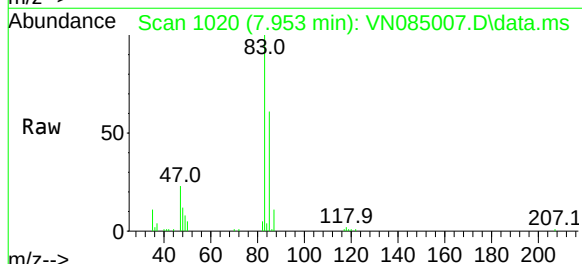
RT: 7.953 min Scan# 1020

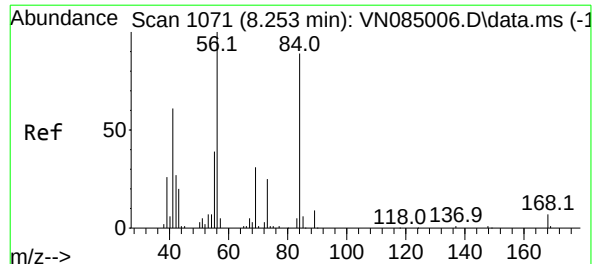
Delta R.T. -0.006 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Tgt Ion:	83	Resp:	74495
Ion	Ratio	Lower	Upper
83	100		
85	60.8	52.6	78.8





#31

Cyclohexane

Concen: 19.852 ug/l

RT: 8.247 min Scan# 1071

Delta R.T. -0.006 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 56 Resp: 63521

Ion Ratio Lower Upper

56 100

69 36.7 24.6 36.8

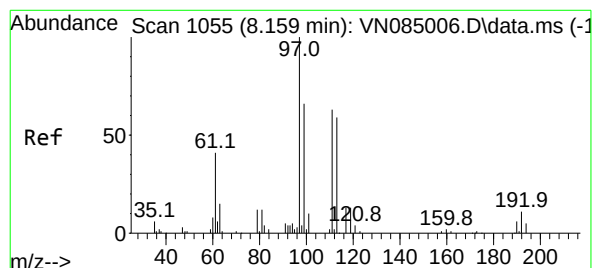
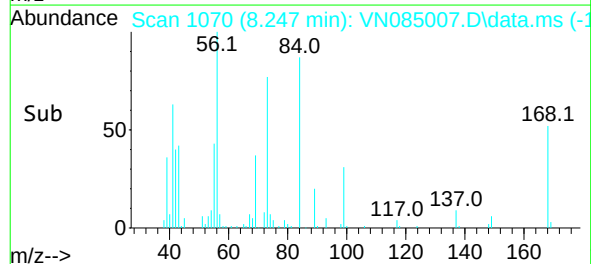
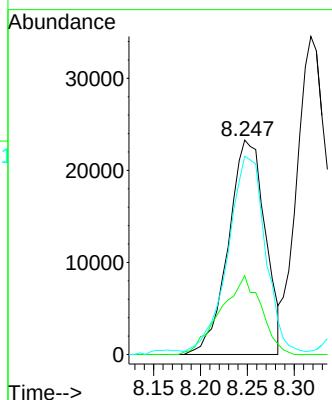
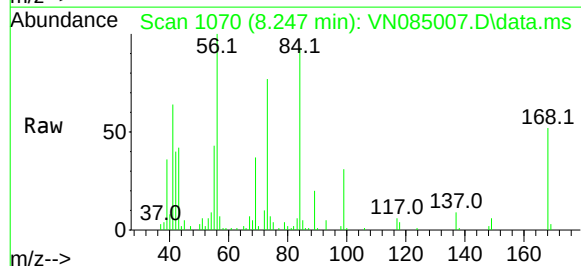
84 90.7 71.4 107.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#32

1,1,1-Trichloroethane

Concen: 19.725 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

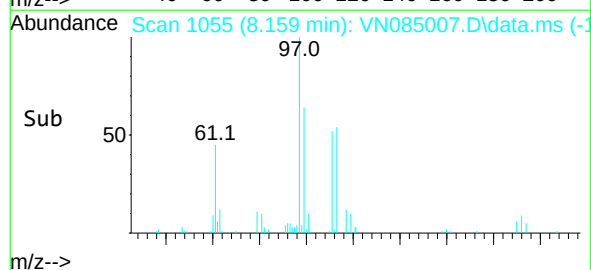
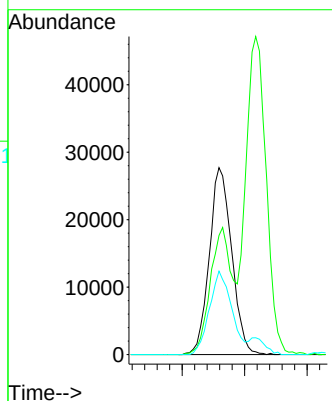
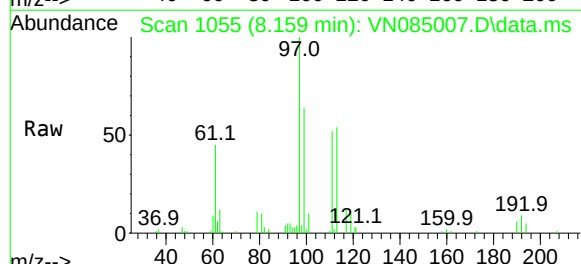
Tgt Ion: 97 Resp: 68908

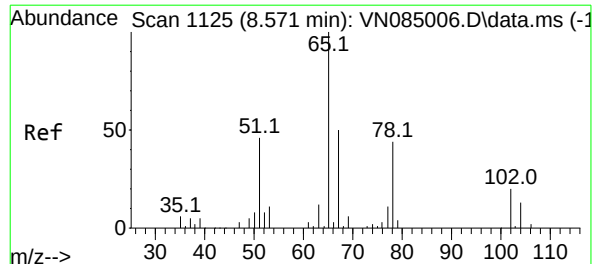
Ion Ratio Lower Upper

97 100

99 67.5 51.0 76.4

61 44.3 36.2 54.2





#33

1,2-Dichloroethane-d4

Concen: 18.483 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 65 Resp: 44399

Ion Ratio Lower Upper

65 100

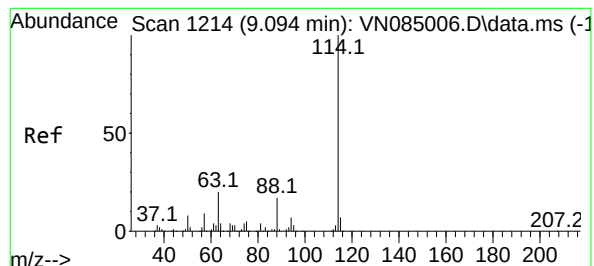
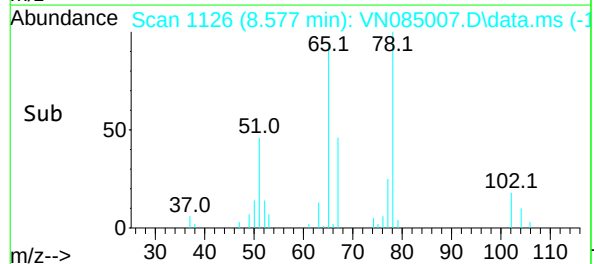
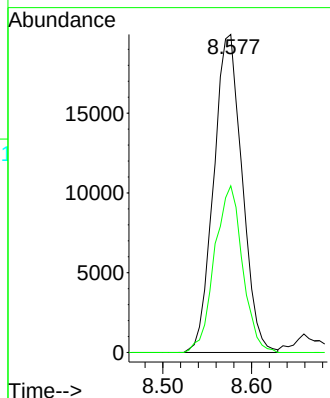
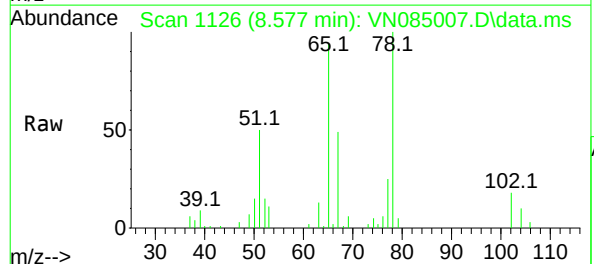
67 51.5 0.0 105.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

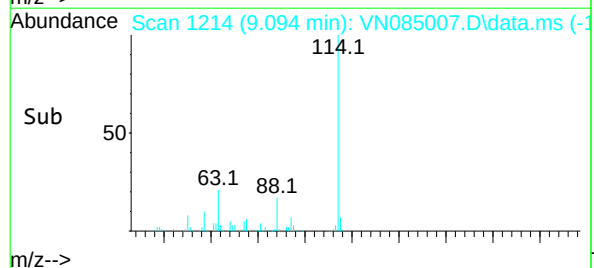
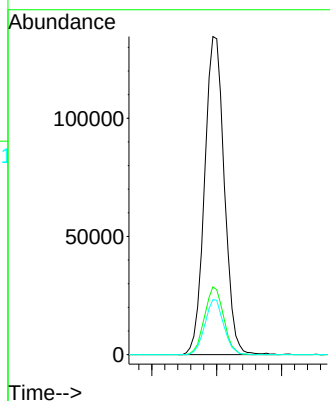
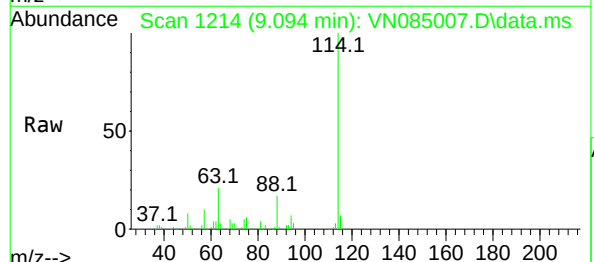
Tgt Ion:114 Resp: 283685

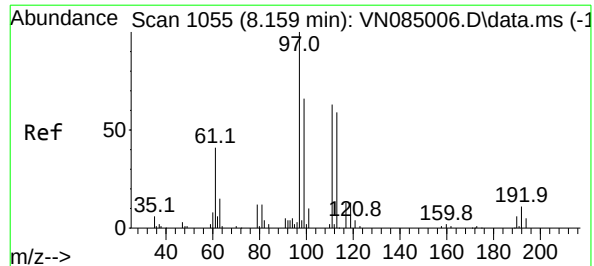
Ion Ratio Lower Upper

114 100

63 21.3 0.0 41.0

88 17.3 0.0 34.8





#35

Dibromofluoromethane

Concen: 18.466 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

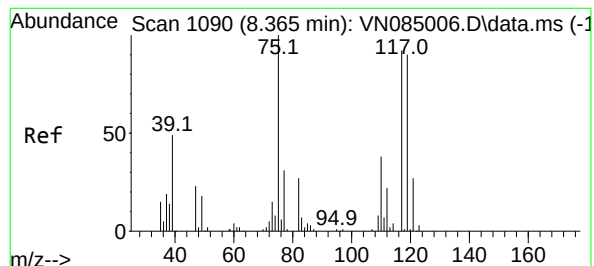
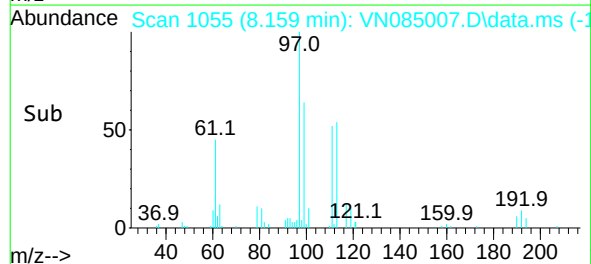
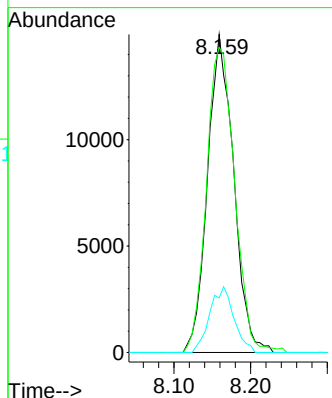
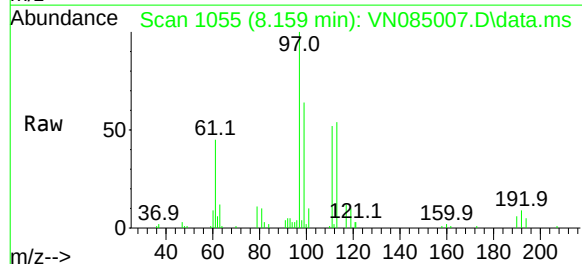
VSTDIC020

Tgt Ion:	113	Resp:	35327
Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.0	123.0
192	19.2	14.8	22.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#36

1,1-Dichloropropene

Concen: 19.888 ug/l

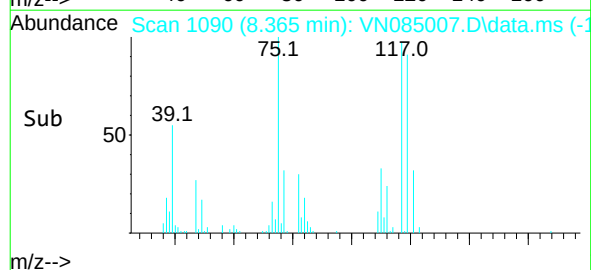
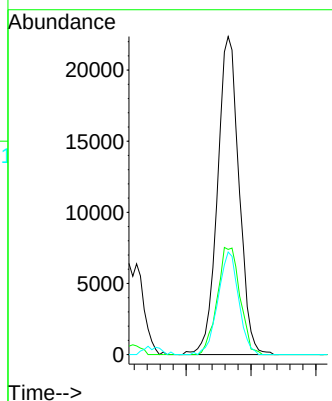
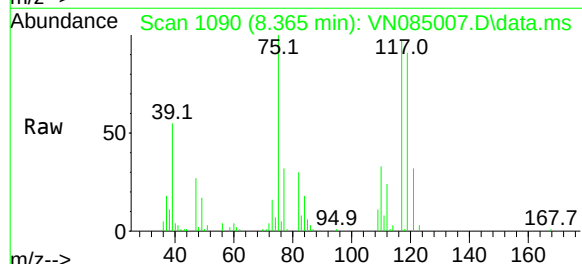
RT: 8.365 min Scan# 1090

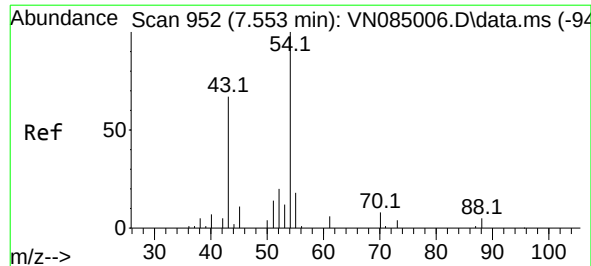
Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Tgt Ion:	75	Resp:	51535
Ion	Ratio	Lower	Upper
75	100		
110	35.6	17.2	51.6
77	30.9	24.2	36.4





#37

Ethyl Acetate

Concen: 20.561 ug/l

RT: 7.559 min Scan# 95

Delta R.T. 0.006 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

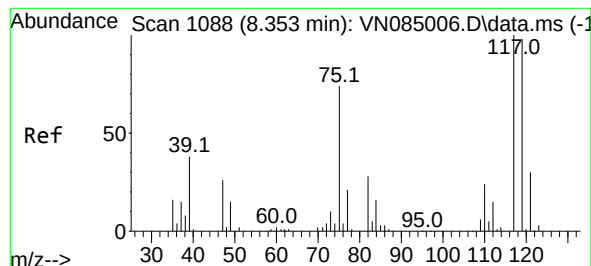
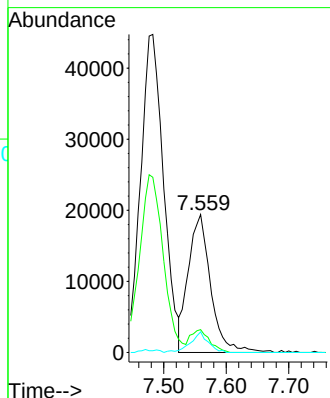
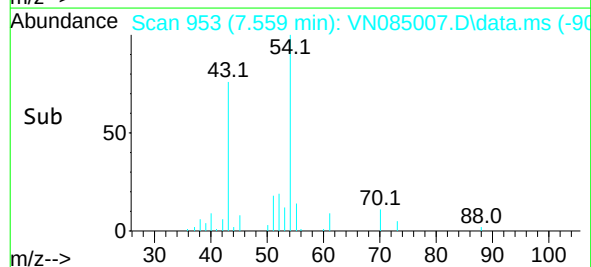
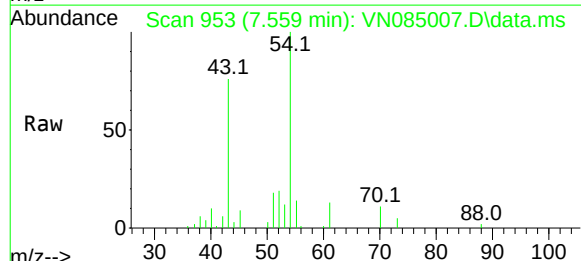
ClientSampleId :

VSTDICC020

Tgt Ion:	43	Resp:	48436
Ion	Ratio	Lower	Upper
43	100		
61	14.0	11.7	17.5
70	11.7	9.3	13.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#38

Carbon Tetrachloride

Concen: 20.593 ug/l

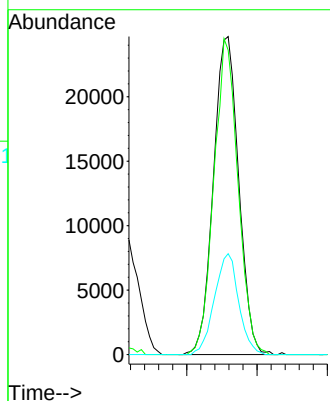
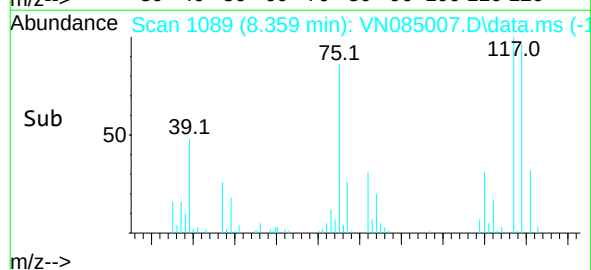
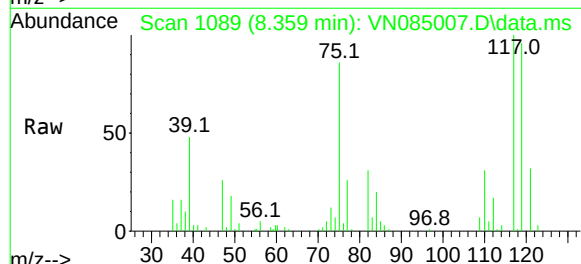
RT: 8.359 min Scan# 1089

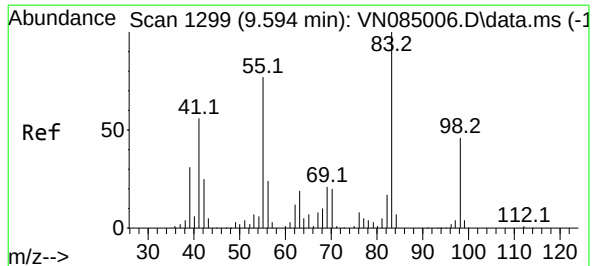
Delta R.T. 0.006 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Tgt Ion:	117	Resp:	61594
Ion	Ratio	Lower	Upper
117	100		
119	95.7	78.6	117.8
121	31.7	24.2	36.2





#39

Methylcyclohexane

Concen: 20.464 ug/l

RT: 9.600 min Scan# 13

Delta R.T. 0.006 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 83 Resp: 55102

Ion Ratio Lower Upper

83 100

55 76.9 61.8 92.6

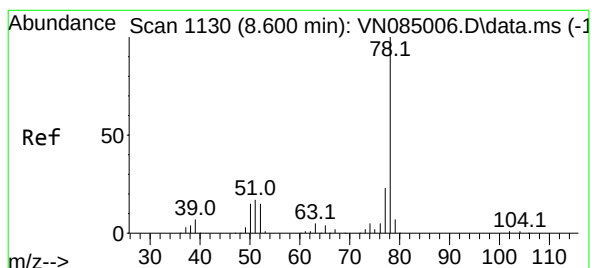
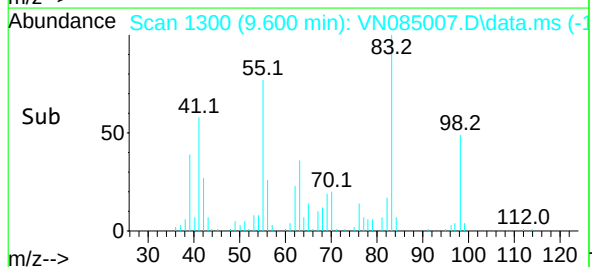
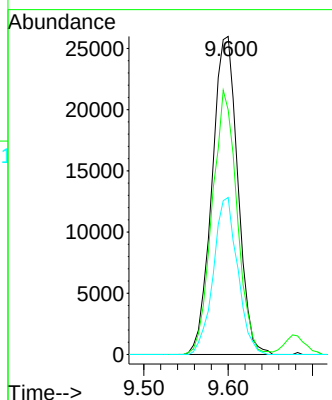
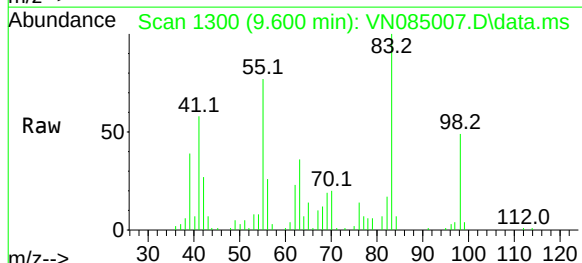
98 49.4 37.0 55.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#40

Benzene

Concen: 19.977 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN085007.D

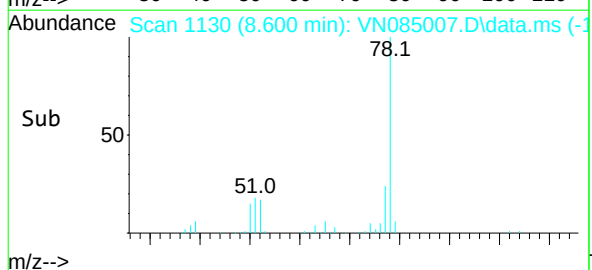
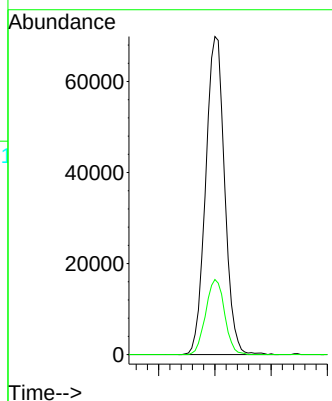
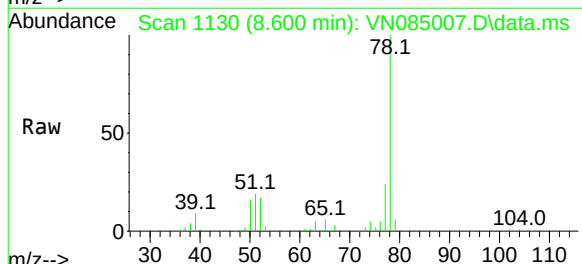
Acq: 22 Nov 2024 12:10

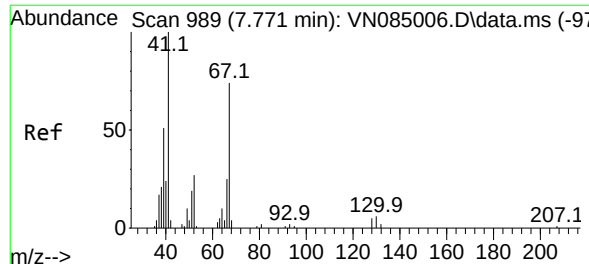
Tgt Ion: 78 Resp: 163727

Ion Ratio Lower Upper

78 100

77 23.6 18.5 27.7





#41

Methacrylonitrile

Concen: 19.942 ug/l

RT: 7.777 min Scan# 99

Delta R.T. 0.006 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

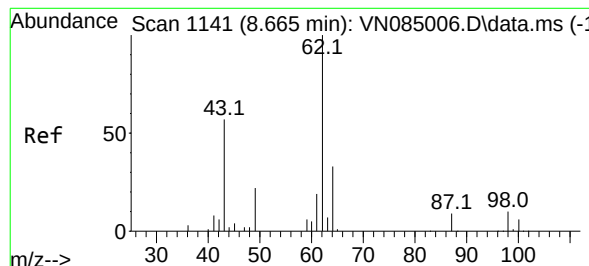
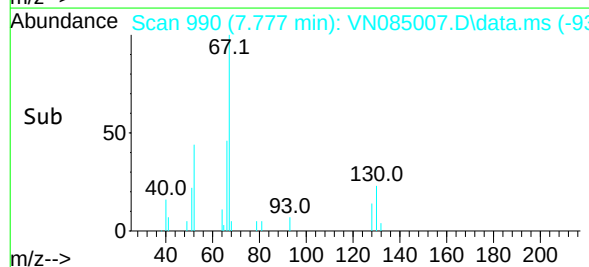
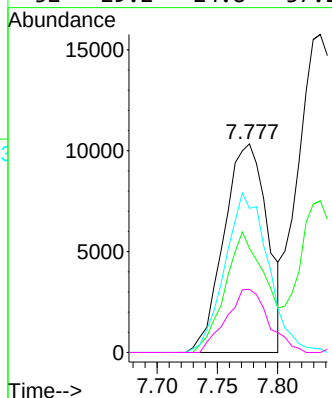
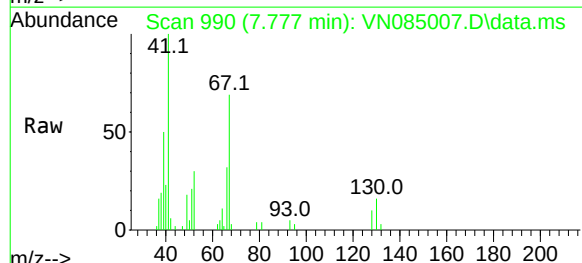
VSTDICC020

Tgt Ion:	41	Resp:	26011
Ion	Ratio	Lower	Upper
41	100		
39	53.0	42.6	63.8
67	75.9	59.9	89.9
52	29.2	24.8	37.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#42

1,2-Dichloroethane

Concen: 20.106 ug/l

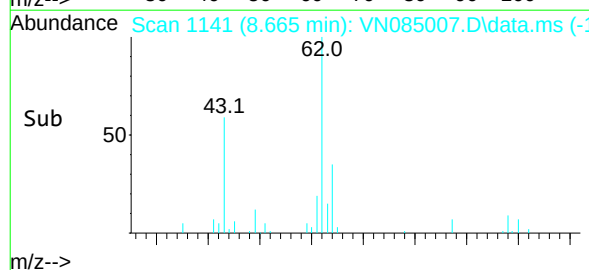
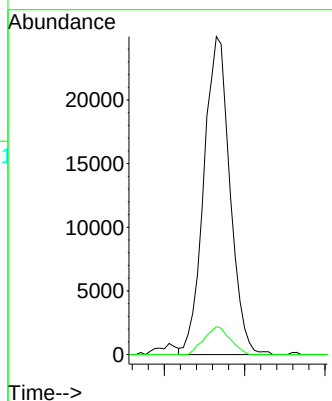
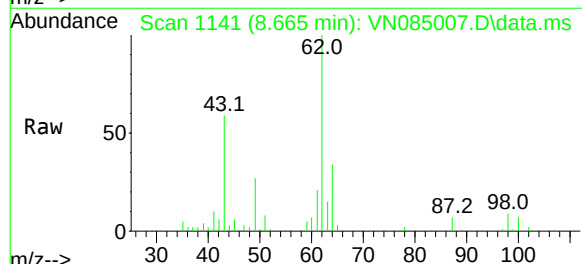
RT: 8.665 min Scan# 1141

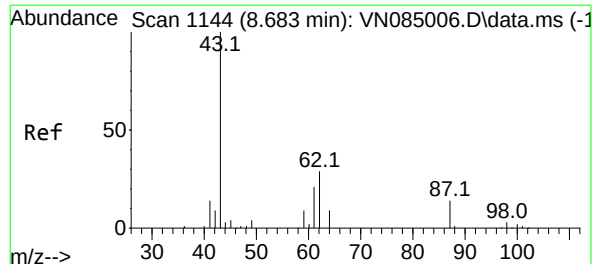
Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Tgt Ion:	62	Resp:	56374
Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	18.2





#43

Isopropyl Acetate

Concen: 18.116 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

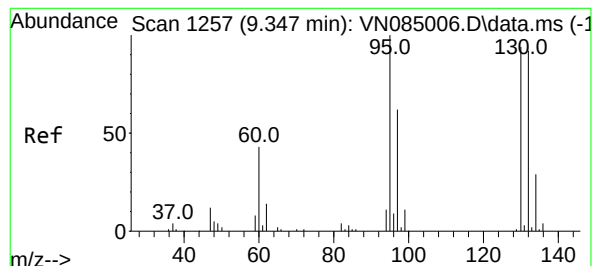
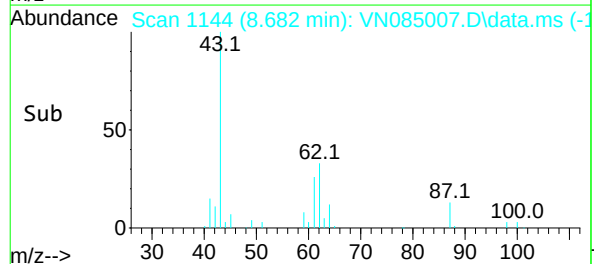
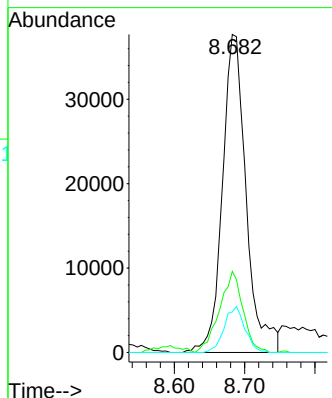
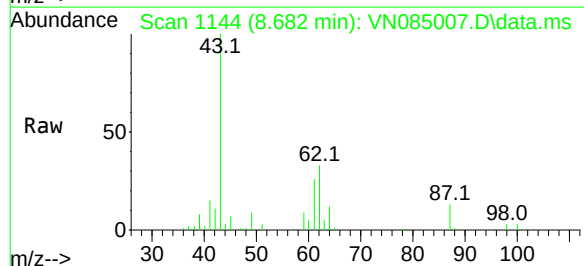
ClientSampleId :

VSTDICC020

Tgt Ion:	43	Resp:	88647
Ion	Ratio	Lower	Upper
43	100		
61	25.1	20.6	30.8
87	12.6	11.0	16.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#44

Trichloroethene

Concen: 20.127 ug/l

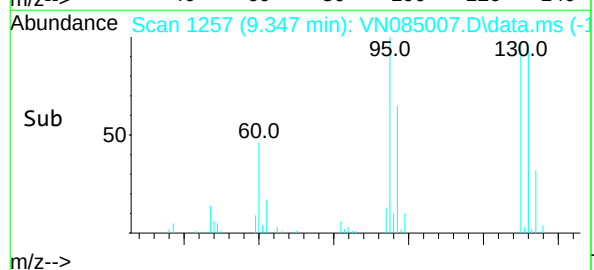
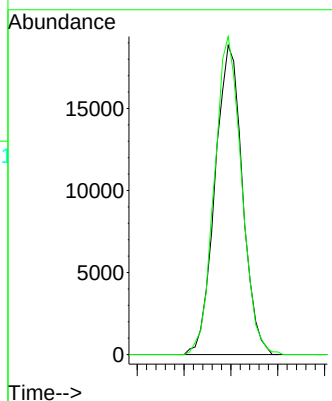
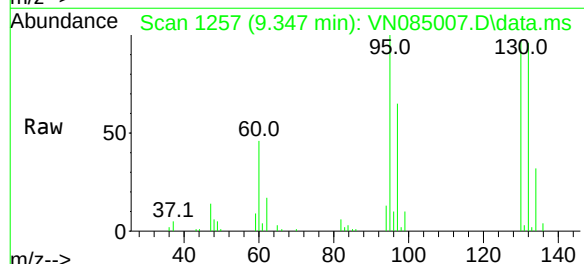
RT: 9.347 min Scan# 1257

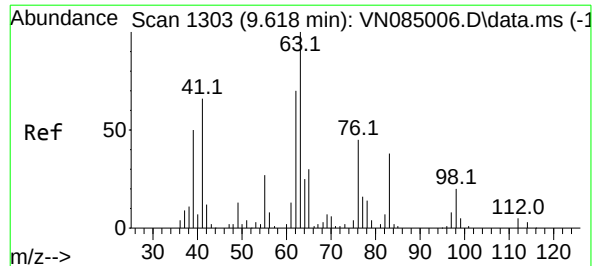
Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Tgt Ion:	130	Resp:	38334
Ion	Ratio	Lower	Upper
130	100		
95	102.9	0.0	213.4





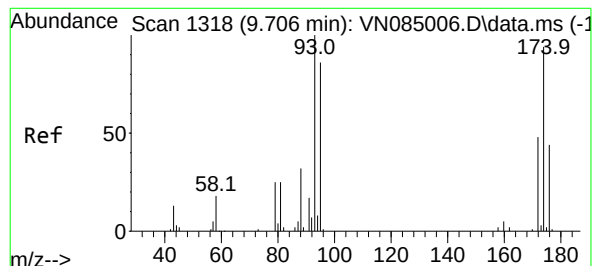
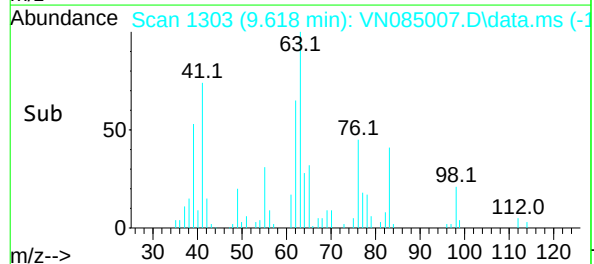
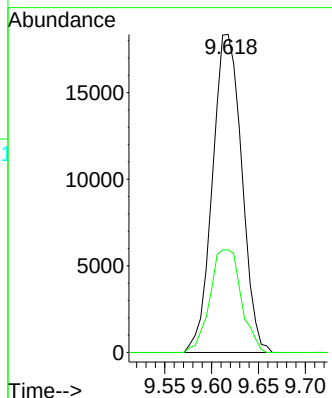
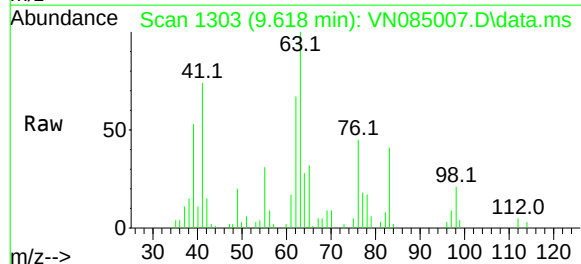
#45
1,2-Dichloropropane
Concen: 19.742 ug/l
RT: 9.618 min Scan# 1303
Delta R.T. -0.000 min
Lab File: VN085007.D
Acq: 22 Nov 2024 12:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 63 Resp: 39852
Ion Ratio Lower Upper
63 100
65 32.2 24.0 36.0

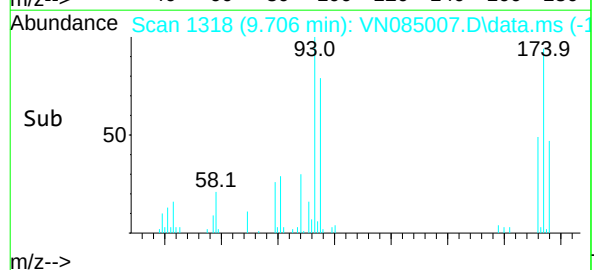
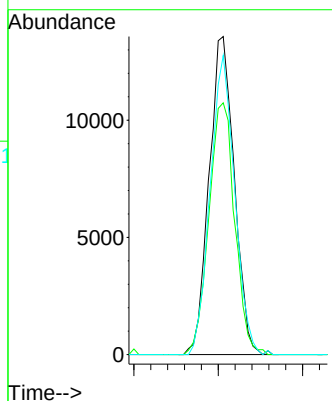
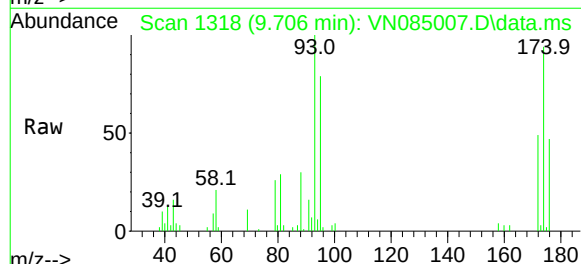
Manual Integrations
APPROVED

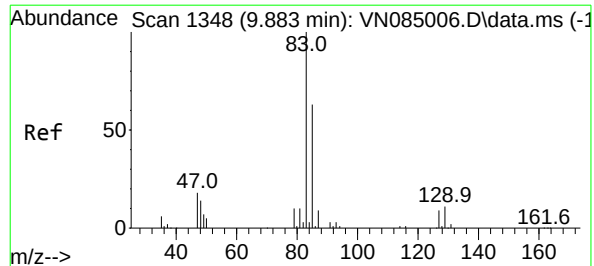
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#46
Dibromomethane
Concen: 20.062 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.000 min
Lab File: VN085007.D
Acq: 22 Nov 2024 12:10

Tgt Ion: 93 Resp: 28140
Ion Ratio Lower Upper
93 100
95 81.2 66.2 99.4
174 91.4 74.9 112.3





#47

Bromodichloromethane

Concen: 19.849 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

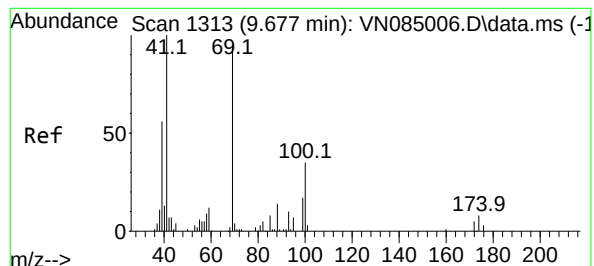
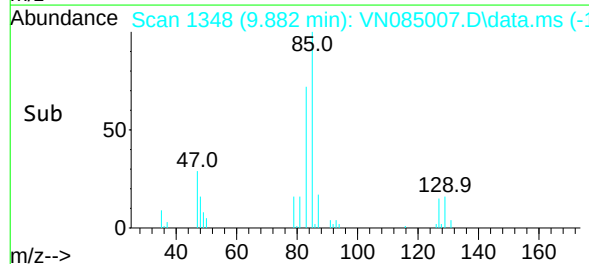
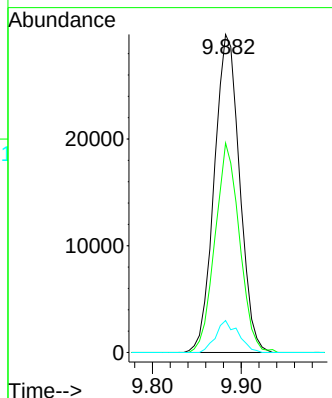
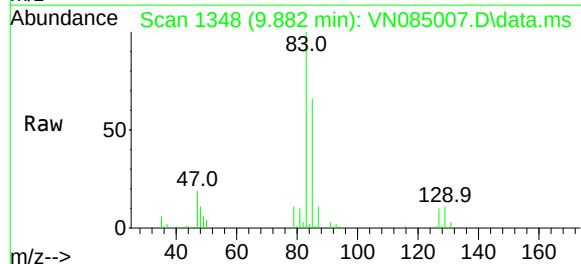
ClientSampleId :

VSTDIC020

Tgt Ion:	83	Resp:	59008
Ion	Ratio	Lower	Upper
83	100		
85	65.9	50.5	75.7
127	10.0	7.1	10.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#48

Methyl methacrylate

Concen: 20.148 ug/l

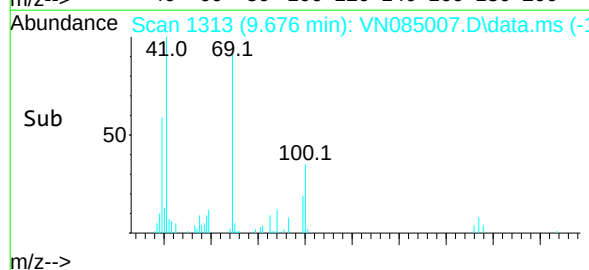
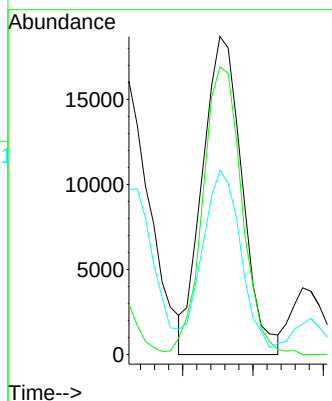
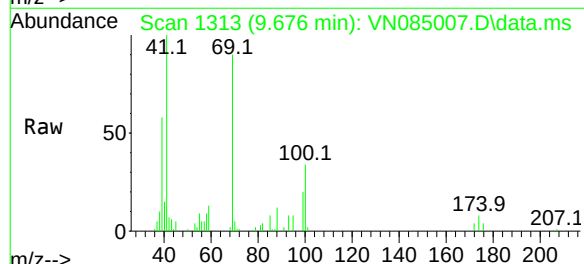
RT: 9.676 min Scan# 1313

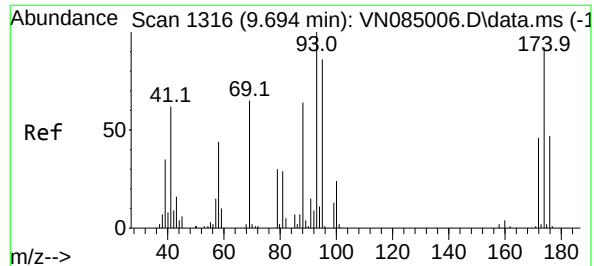
Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Tgt Ion:	41	Resp:	36687
Ion	Ratio	Lower	Upper
41	100		
69	89.2	73.2	109.8
39	56.9	46.2	69.4





#49

1,4-Dioxane

Concen: 410.958 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 88 Resp: 12977

Ion Ratio Lower Upper

88 100

43 0.0 16.7 25.1

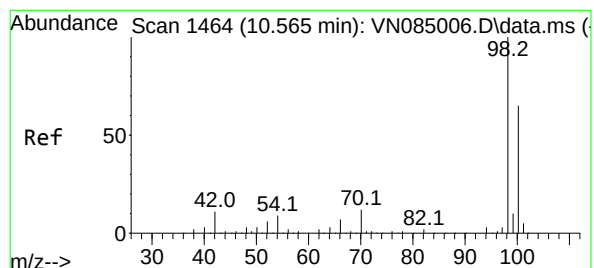
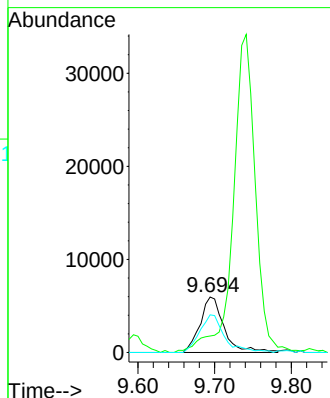
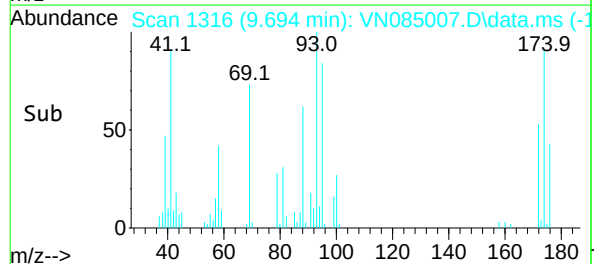
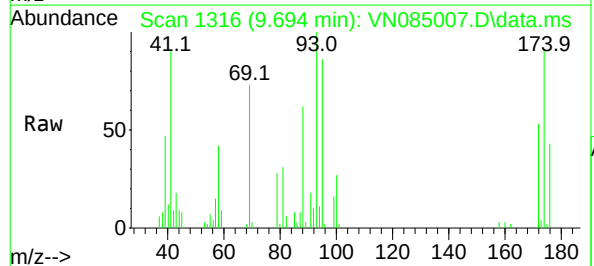
58 70.3 56.5 84.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#50

Toluene-d8

Concen: 19.066 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085007.D

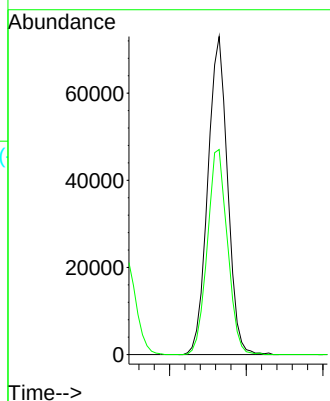
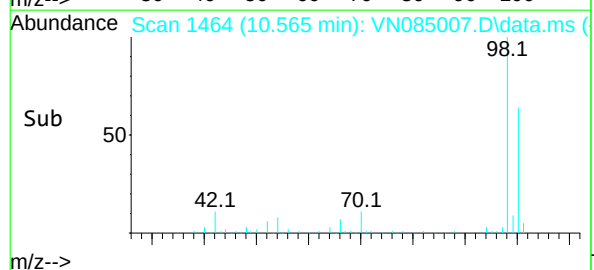
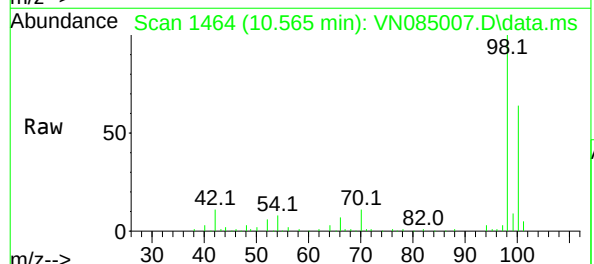
Acq: 22 Nov 2024 12:10

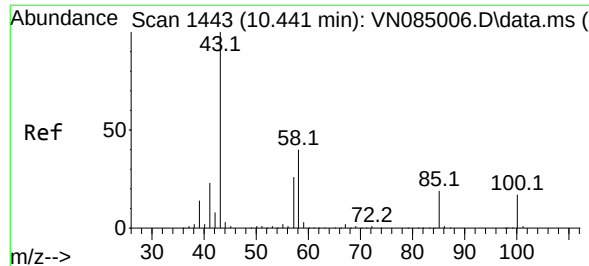
Tgt Ion: 98 Resp: 130719

Ion Ratio Lower Upper

98 100

100 65.7 52.5 78.7





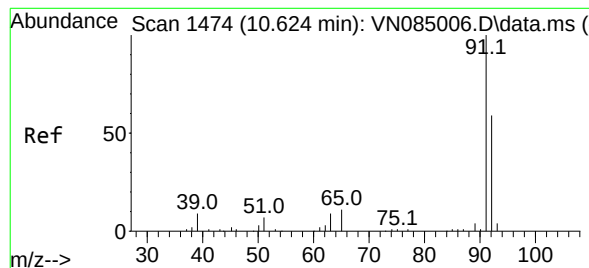
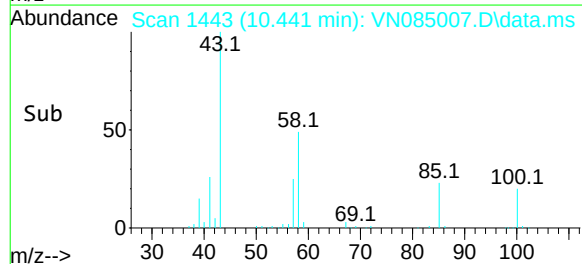
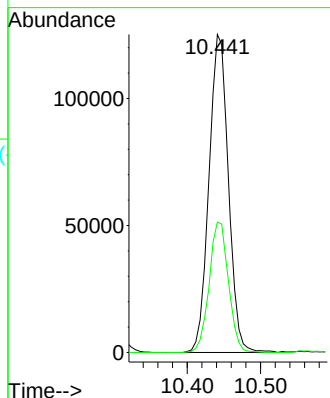
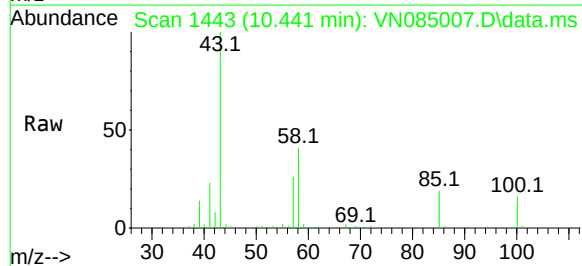
#51
4-Methyl-2-Pentanone
Concen: 103.015 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085007.D
Acq: 22 Nov 2024 12:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 230239
Ion Ratio Lower Upper
43 100
58 40.7 32.1 48.1

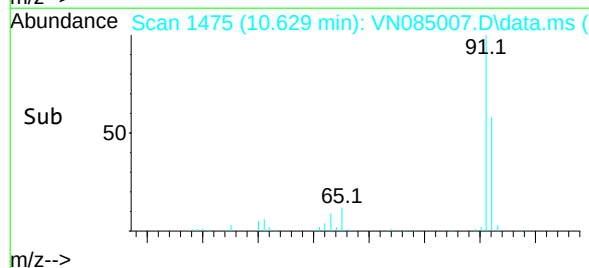
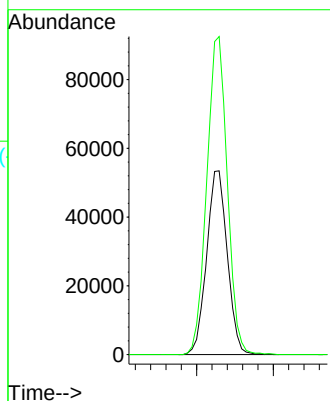
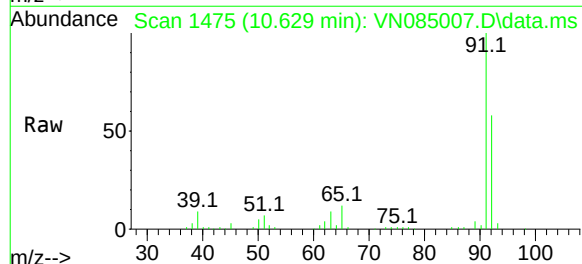
Manual Integrations
APPROVED

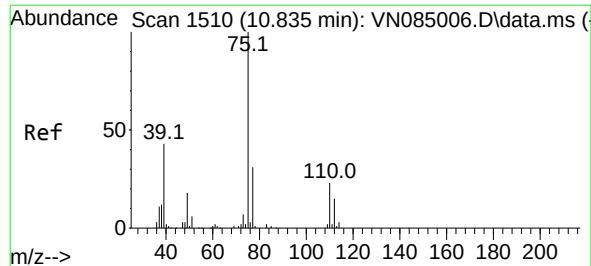
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#52
Toluene
Concen: 20.615 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN085007.D
Acq: 22 Nov 2024 12:10

Tgt Ion: 92 Resp: 100021
Ion Ratio Lower Upper
92 100
91 171.9 136.7 205.1





#53

t-1,3-Dichloropropene

Concen: 20.539 ug/l

RT: 10.829 min Scan# 1510

Delta R.T. -0.006 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 75 Resp: 61215

Ion Ratio Lower Upper

75 100

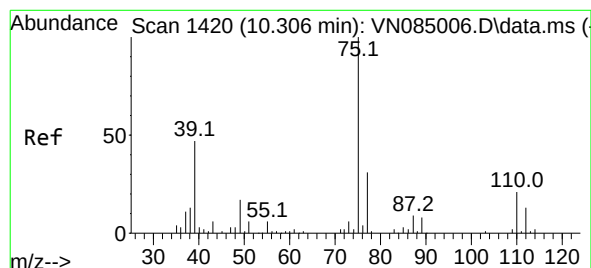
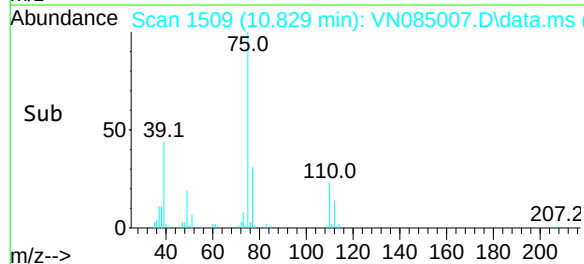
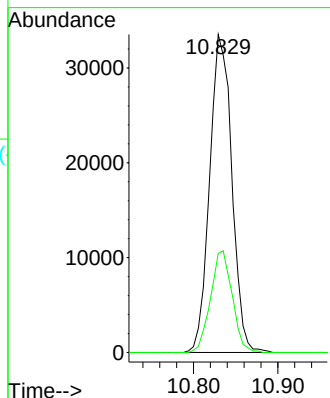
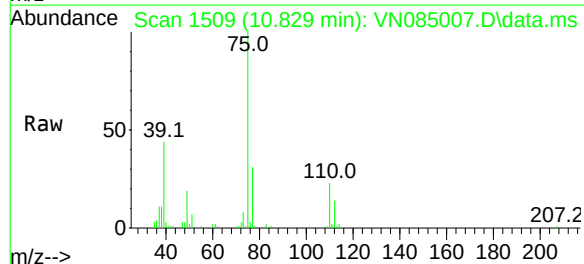
77 31.2 25.0 37.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#54

cis-1,3-Dichloropropene

Concen: 20.501 ug/l

RT: 10.306 min Scan# 1420

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

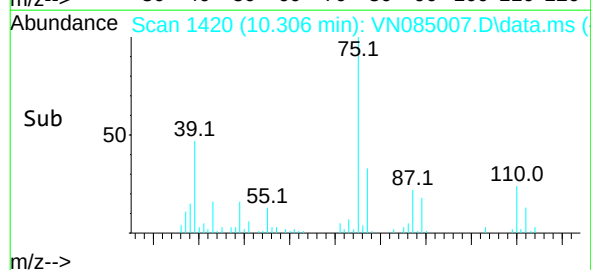
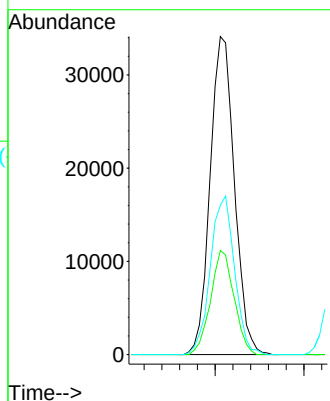
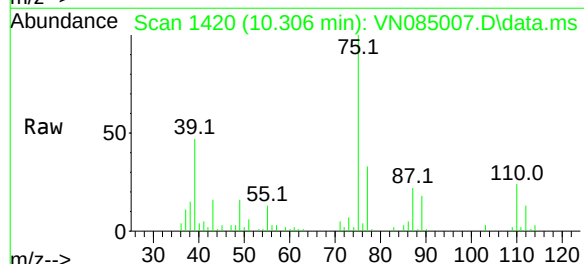
Tgt Ion: 75 Resp: 64823

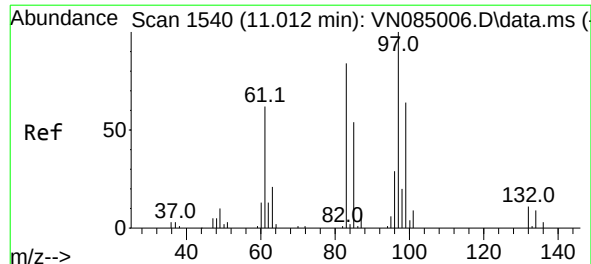
Ion Ratio Lower Upper

75 100

77 32.7 25.0 37.4

39 47.0 37.6 56.4





#55

1,1,2-Trichloroethane

Concen: 20.326 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 97 Resp: 36732

Ion Ratio Lower Upper

97 100

83 82.4 67.4 101.2

85 54.3 43.1 64.7

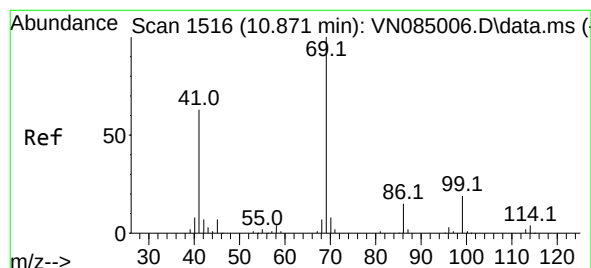
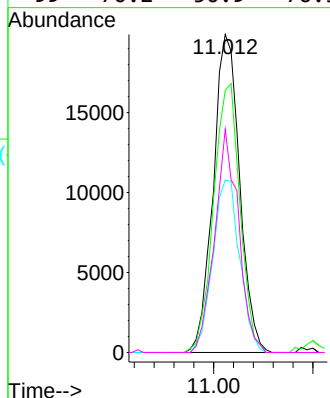
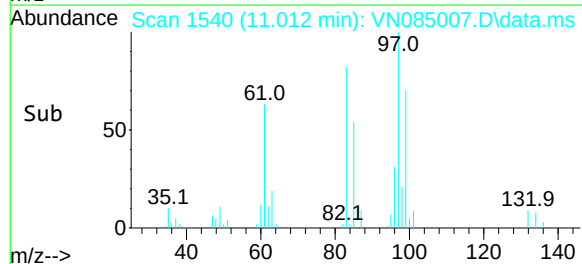
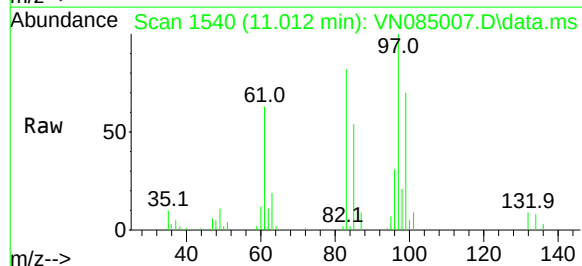
99 70.2 50.9 76.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#56

Ethyl methacrylate

Concen: 21.089 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

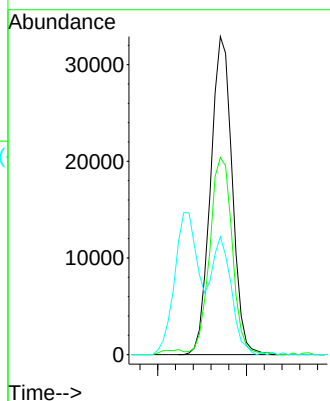
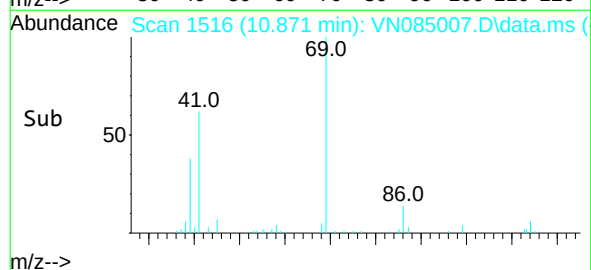
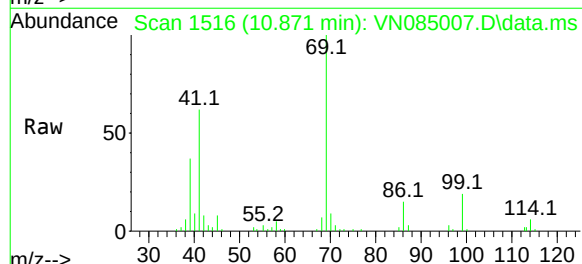
Tgt Ion: 69 Resp: 55691

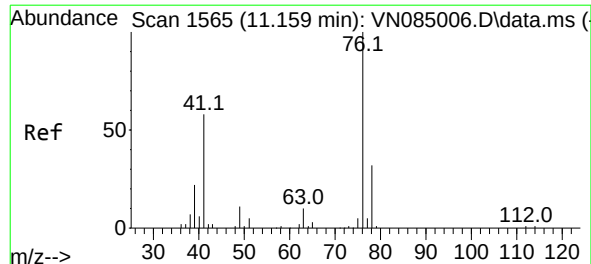
Ion Ratio Lower Upper

69 100

41 64.8 50.0 75.0

39 34.2 27.0 40.6





#57

1,3-Dichloropropane

Concen: 19.906 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. -0.000 min

Lab File: VN085007.D

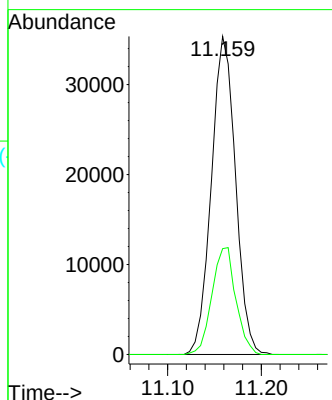
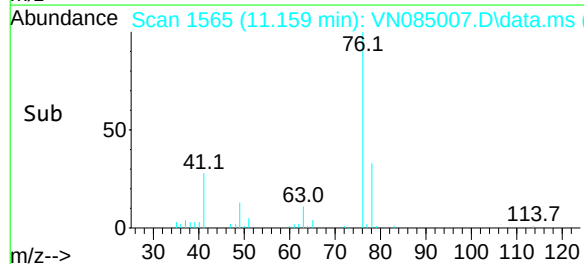
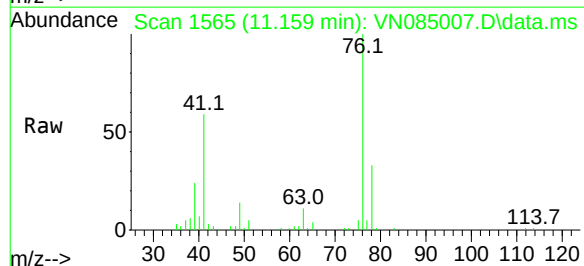
Acq: 22 Nov 2024 12:10

Tgt Ion: 76 Resp: 63314

Ion Ratio Lower Upper

76 100

78 33.2 26.1 39.1



Instrument :

MSVOA_N

ClientSampleId :

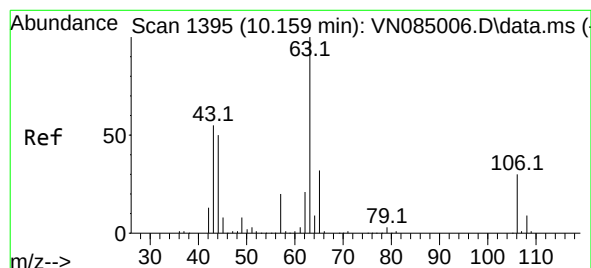
VSTDICC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#58

2-Chloroethyl Vinyl ether

Concen: 106.227 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN085007.D

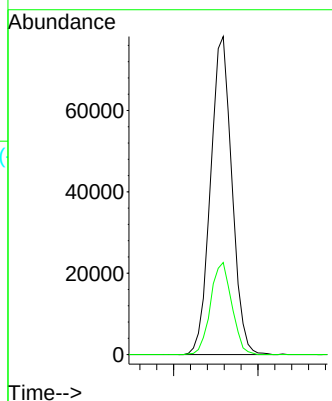
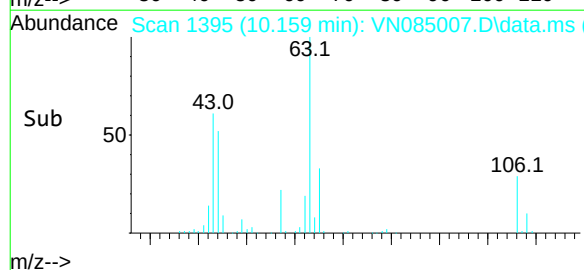
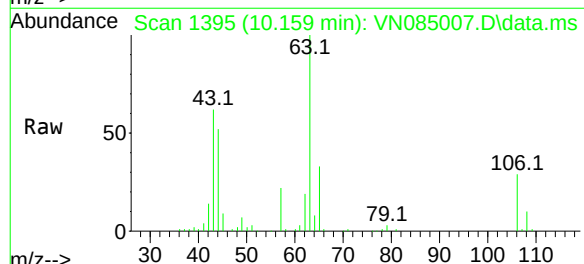
Acq: 22 Nov 2024 12:10

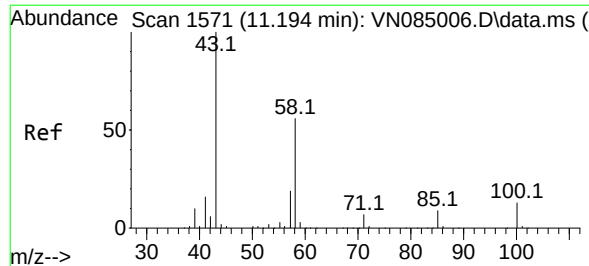
Tgt Ion: 63 Resp: 137602

Ion Ratio Lower Upper

63 100

106 28.7 23.0 34.6





#59

2-Hexanone

Concen: 107.514 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. -0.000 min

Lab File: VN085007.D

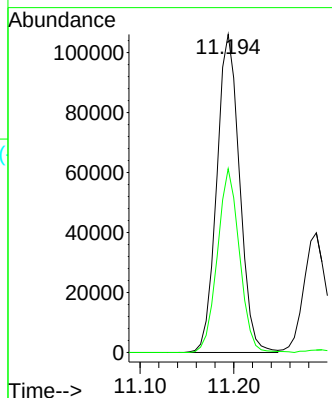
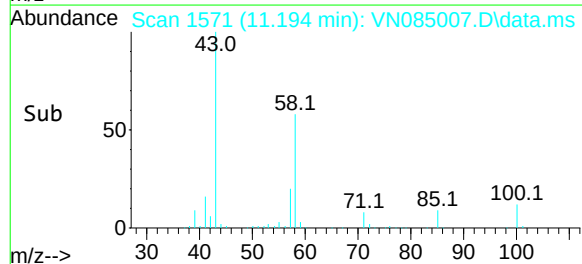
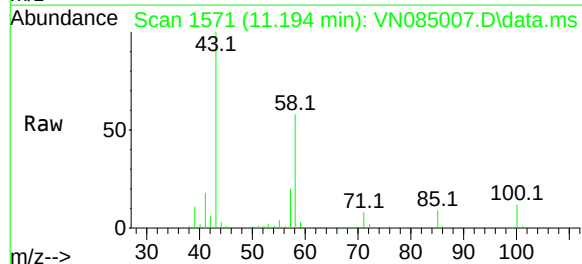
Acq: 22 Nov 2024 12:10

Tgt Ion: 43 Resp: 179717

Ion Ratio Lower Upper

43 100

58 55.7 28.3 85.0



Instrument :

MSVOA_N

ClientSampleId :

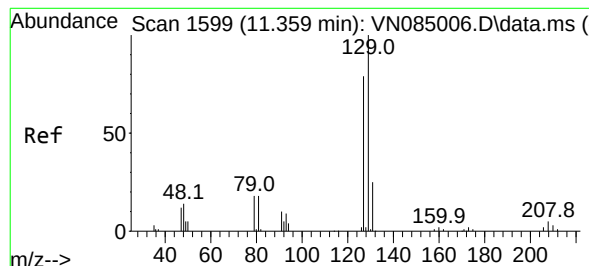
VSTDICC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#60

Dibromochloromethane

Concen: 20.126 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. -0.006 min

Lab File: VN085007.D

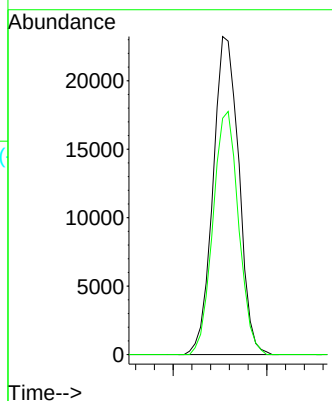
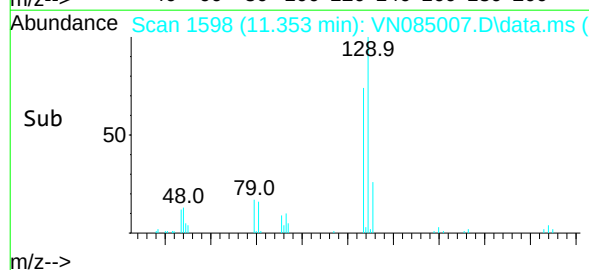
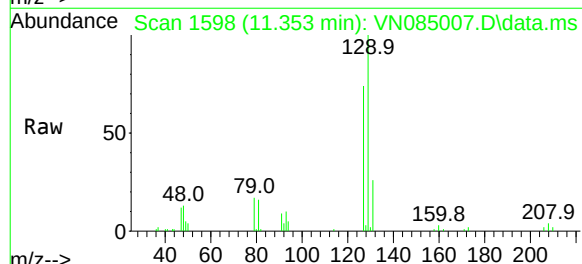
Acq: 22 Nov 2024 12:10

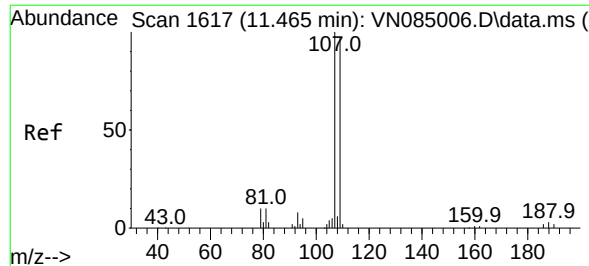
Tgt Ion:129 Resp: 44450

Ion Ratio Lower Upper

129 100

127 75.9 39.2 117.6





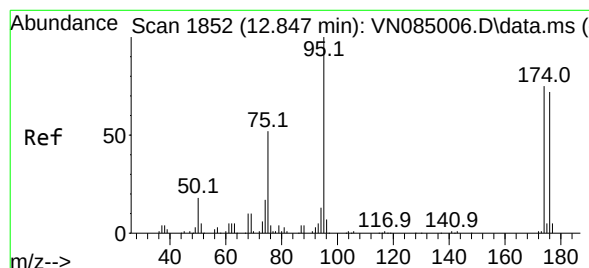
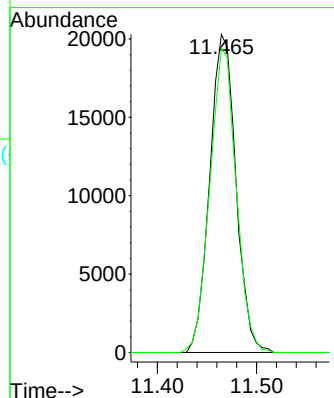
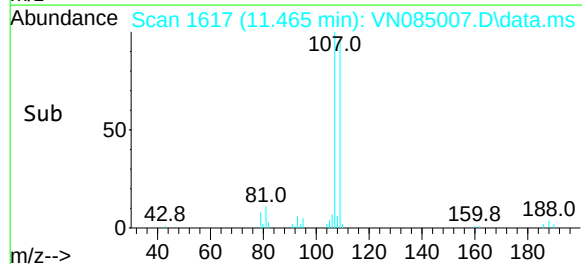
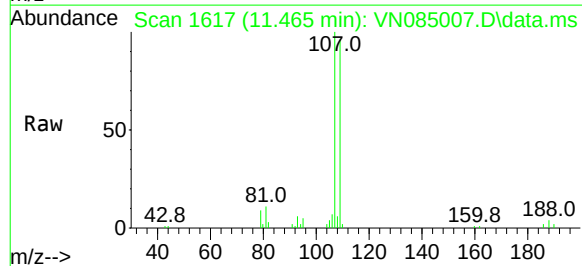
#61
1,2-Dibromoethane
Concen: 19.905 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085007.D
Acq: 22 Nov 2024 12:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 107 Resp: 37228
Ion Ratio Lower Upper
107 100
109 96.2 76.1 114.1

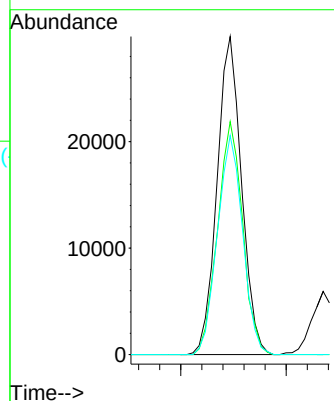
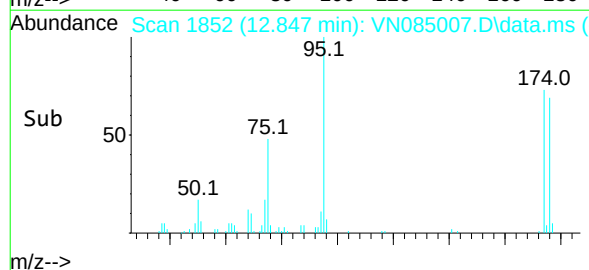
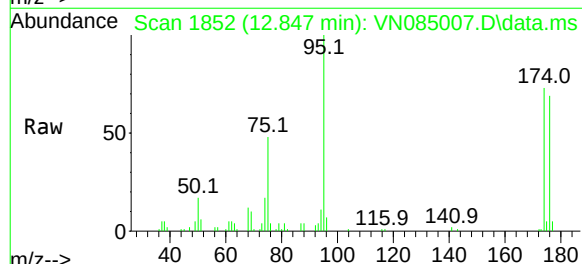
Manual Integrations
APPROVED

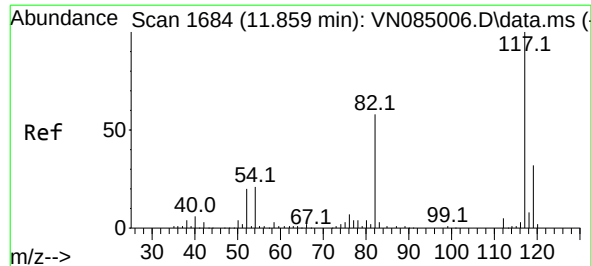
Reviewed By : John Carlone 11/25/2024
Supervised By : Mahesh Dadoda 11/25/2024



#62
4-Bromofluorobenzene
Concen: 18.797 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085007.D
Acq: 22 Nov 2024 12:10

Tgt Ion: 95 Resp: 48193
Ion Ratio Lower Upper
95 100
174 74.7 0.0 146.6
176 70.8 0.0 141.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1684

Delta R.T. 0.006 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion:117 Resp: 240895

Ion Ratio Lower Upper

117 100

82 56.9 46.0 69.0

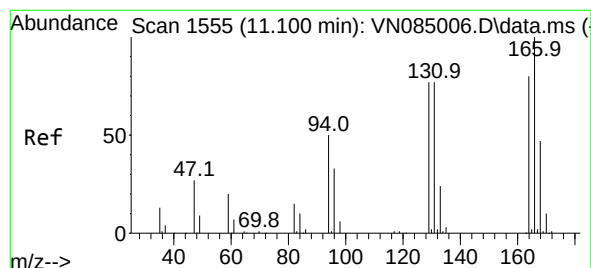
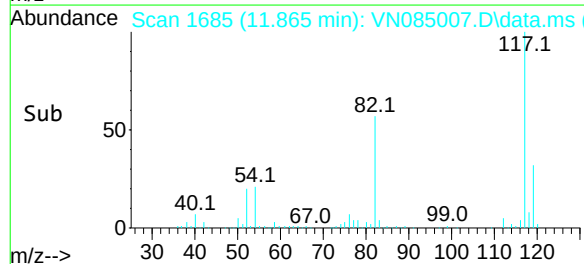
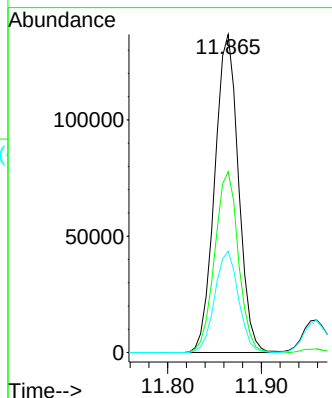
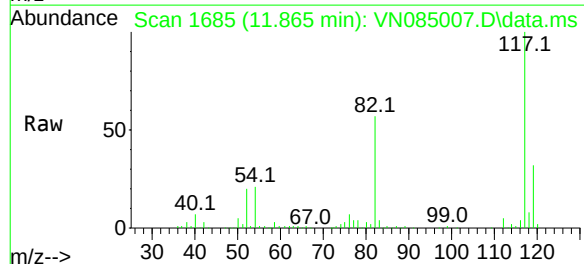
119 31.8 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#64

Tetrachloroethene

Concen: 20.155 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Tgt Ion:164 Resp: 32716

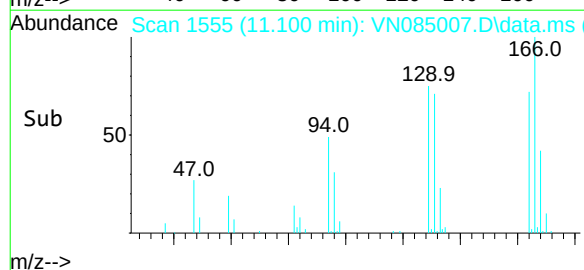
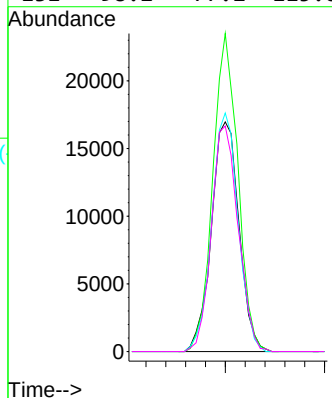
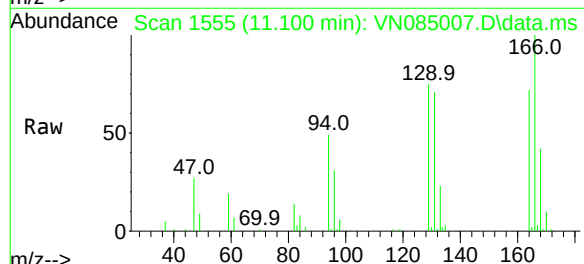
Ion Ratio Lower Upper

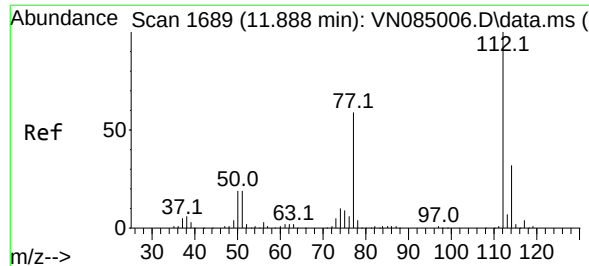
164 100

166 138.5 100.6 151.0

129 103.9 77.7 116.5

131 98.2 77.2 115.8





#65

Chlorobenzene

Concen: 19.815 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion:112 Resp: 108255

Ion Ratio Lower Upper

112 100

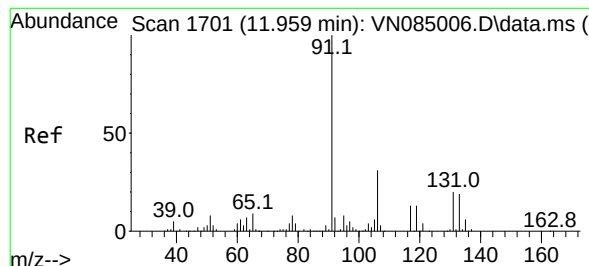
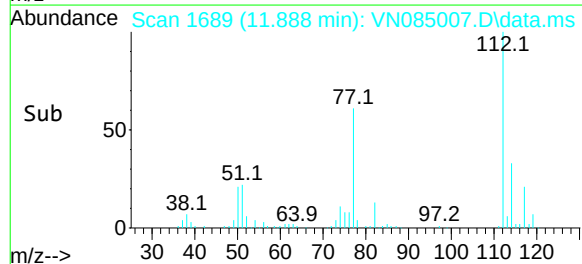
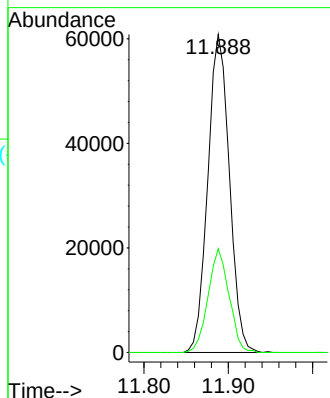
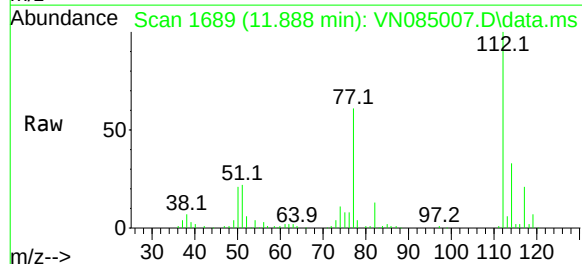
114 32.6 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#66

1,1,1,2-Tetrachloroethane

Concen: 19.446 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

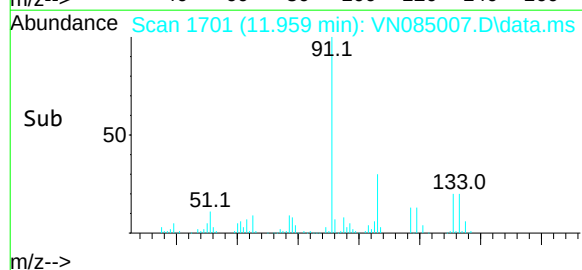
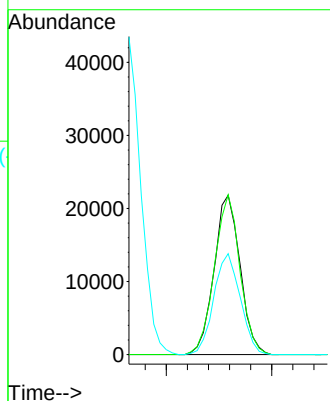
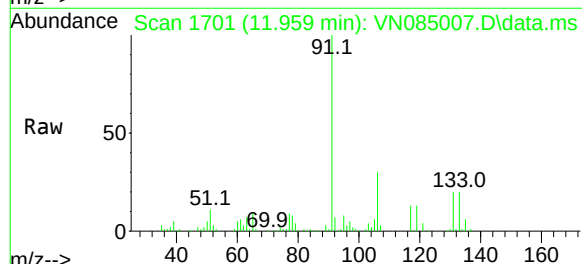
Tgt Ion:131 Resp: 37404

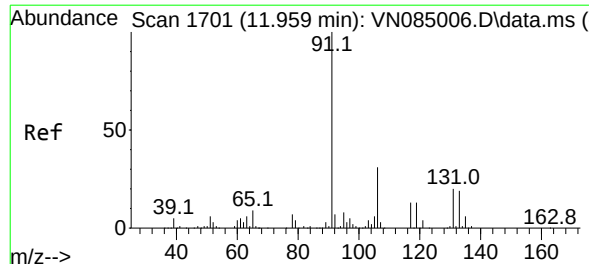
Ion Ratio Lower Upper

131 100

133 98.4 47.8 143.4

119 64.4 32.1 96.3





#67

Ethyl Benzene

Concen: 20.440 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 91 Resp: 181169

Ion Ratio Lower Upper

91 100

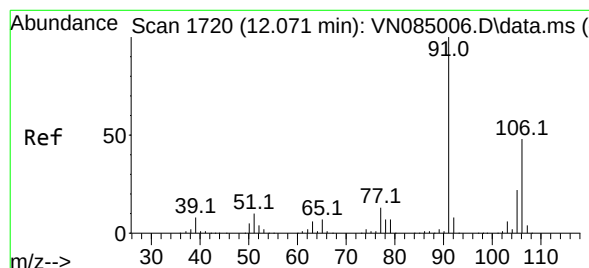
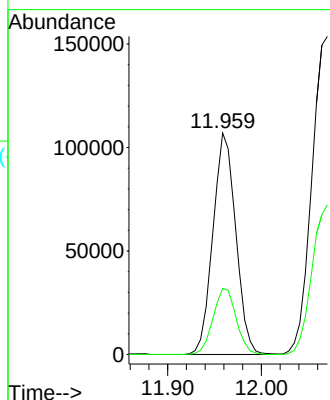
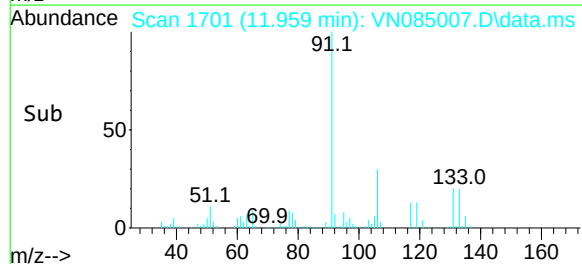
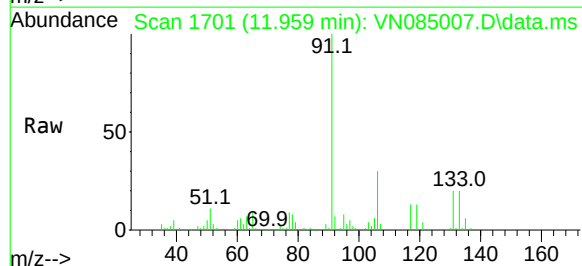
106 29.8 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#68

m/p-Xylenes

Concen: 41.824 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN085007.D

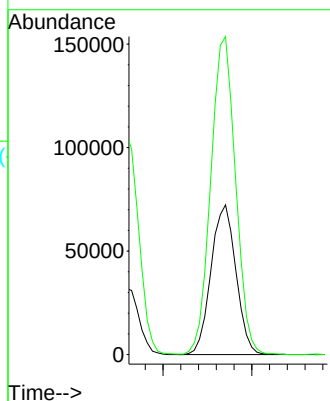
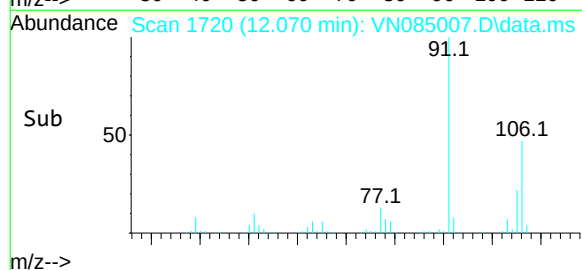
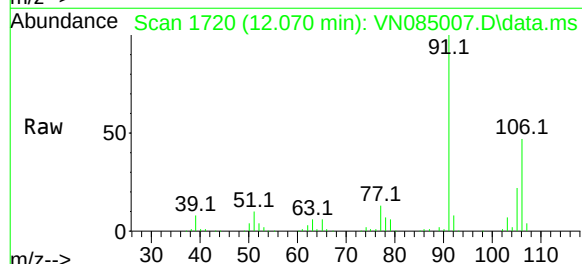
Acq: 22 Nov 2024 12:10

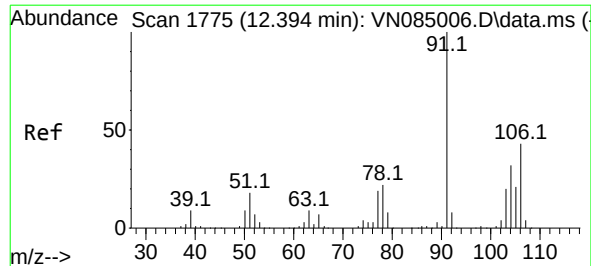
Tgt Ion:106 Resp: 141133

Ion Ratio Lower Upper

106 100

91 211.1 168.0 252.0





#69

o-Xylene

Concen: 20.565 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion:106 Resp: 66013

Ion Ratio Lower Upper

106 100

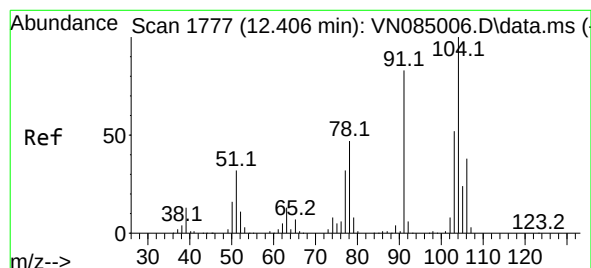
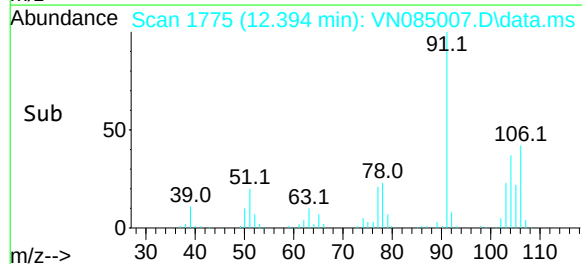
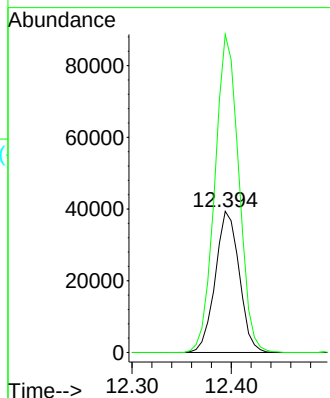
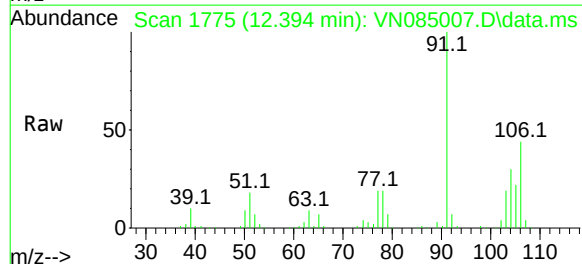
91 225.4 110.7 331.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#70

Styrene

Concen: 21.263 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

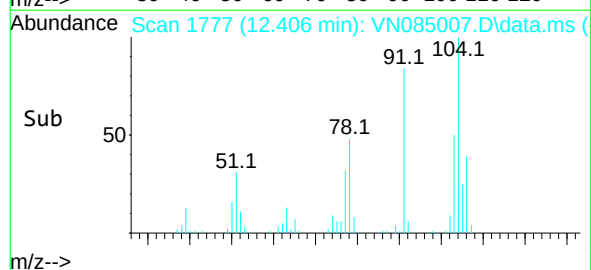
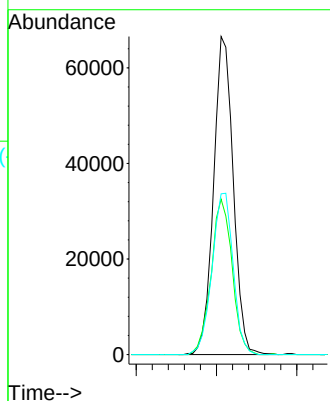
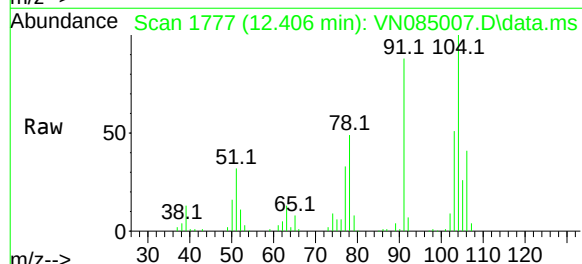
Tgt Ion:104 Resp: 113503

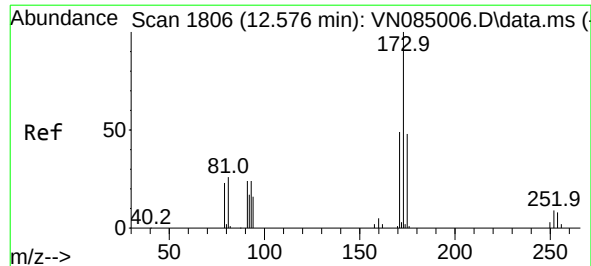
Ion Ratio Lower Upper

104 100

78 51.9 42.3 63.5

103 54.2 44.2 66.2





#71

Bromoform

Concen: 20.159 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

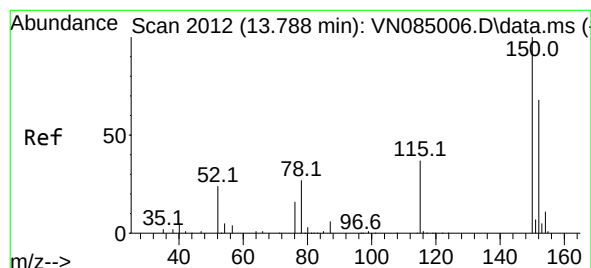
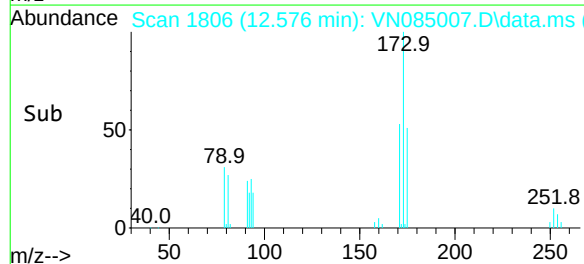
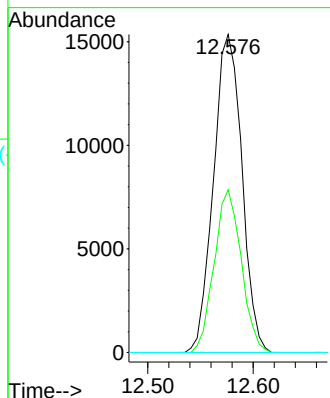
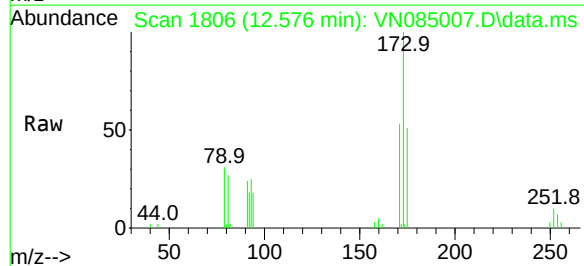
ClientSampleId :

VSTDICC020

Tgt Ion:	173	Resp:	28783
Ion Ratio	Lower	Upper	
173	100		
175	48.7	23.8	71.2
254	0.0	0.0	0.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

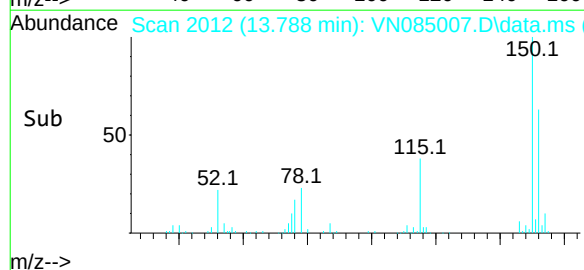
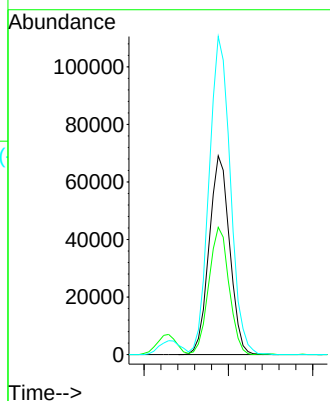
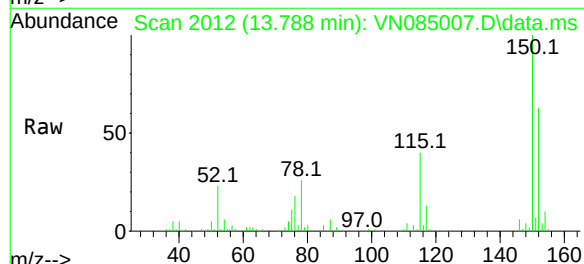
RT: 13.788 min Scan# 2012

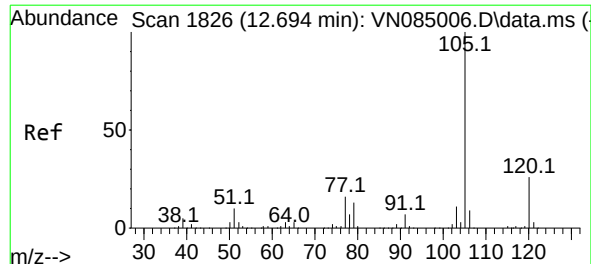
Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Tgt Ion:	152	Resp:	116956
Ion Ratio	Lower	Upper	
152	100		
115	63.0	31.7	95.1
150	165.7	0.0	351.4





#73

Isopropylbenzene

Concen: 20.438 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 105 Resp: 168631

Ion Ratio Lower Upper

105 100

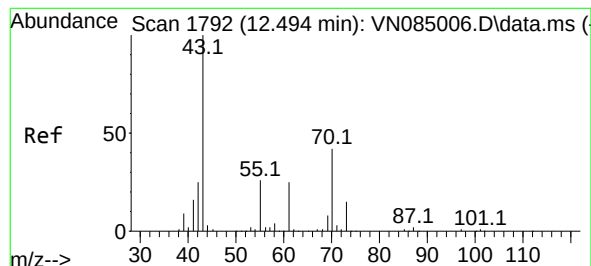
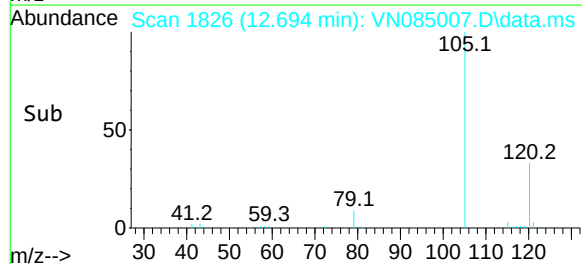
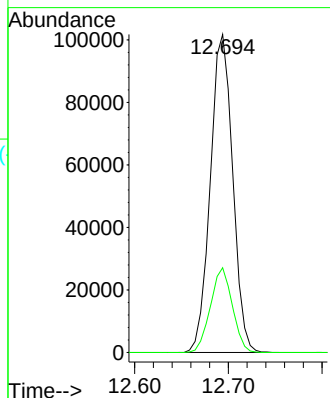
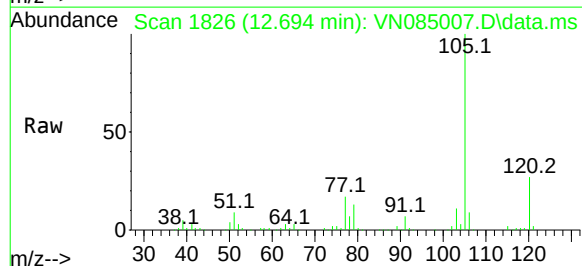
120 26.1 13.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#74

N-ethyl acetate

Concen: 21.238 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Tgt Ion: 43 Resp: 72208

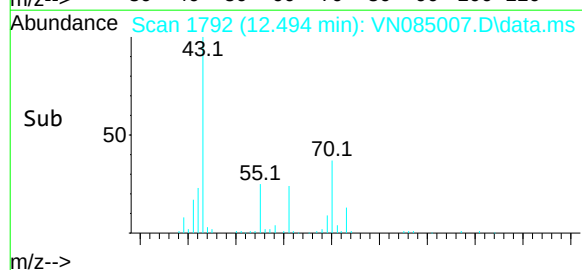
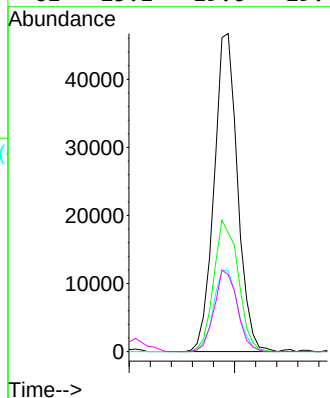
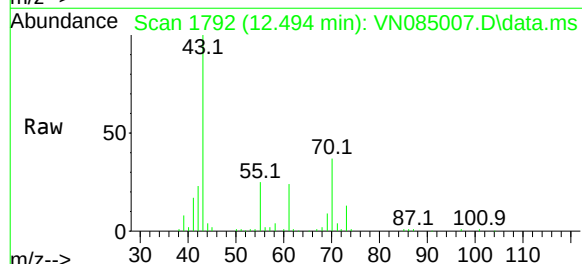
Ion Ratio Lower Upper

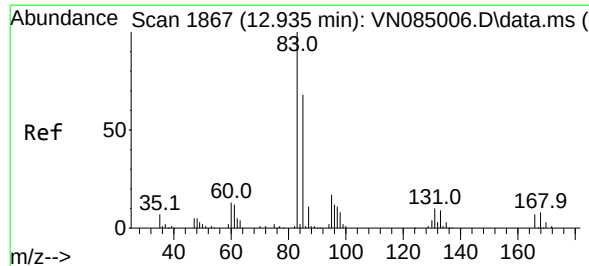
43 100

70 43.1 34.6 51.8

55 26.6 20.5 30.7

61 25.1 19.6 29.4





#75

1,1,2,2-Tetrachloroethane

Concen: 19.127 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

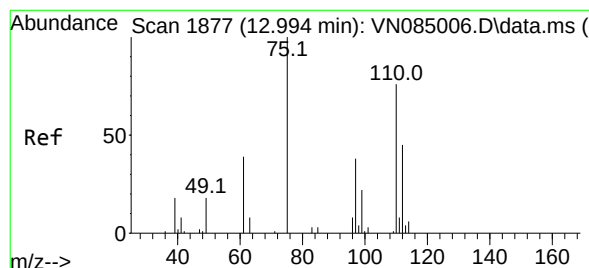
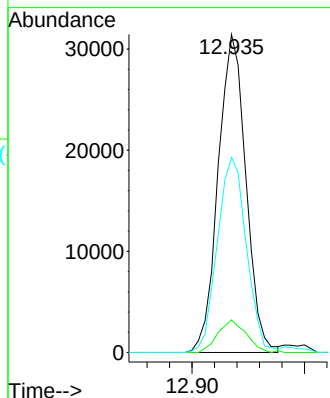
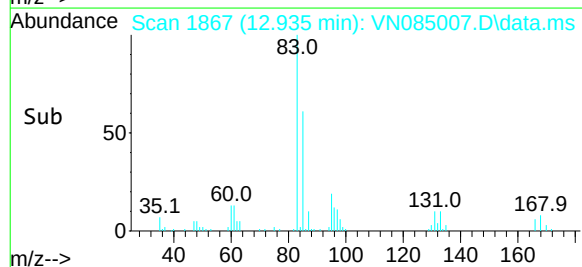
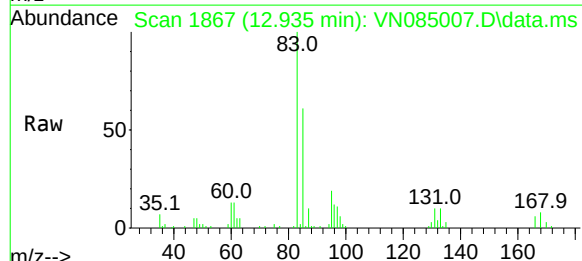
ClientSampleId :

VSTDIC020

Tgt Ion:	83	Resp:	53889
Ion	Ratio	Lower	Upper
83	100		
131	10.5	5.1	15.4
85	64.1	32.1	96.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#76

1,2,3-Trichloropropane

Concen: 19.951 ug/l m

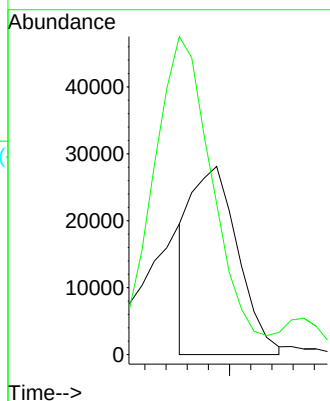
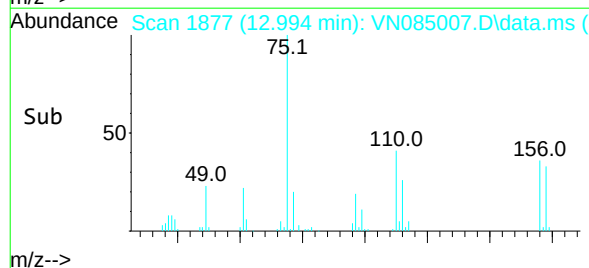
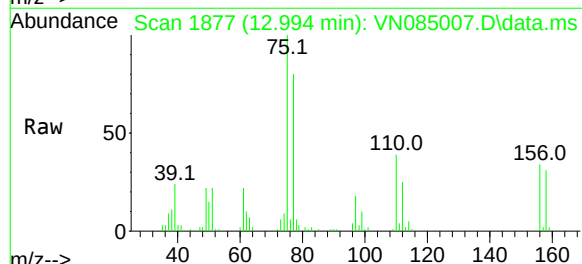
RT: 12.994 min Scan# 1877

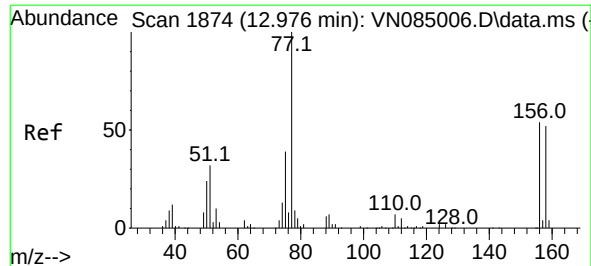
Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Tgt Ion:	75	Resp:	43650
Ion	Ratio	Lower	Upper
75	100		
77	215.1	109.1	327.4





#77

Bromobenzene

Concen: 19.500 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion:156 Resp: 43298

Ion Ratio Lower Upper

156 100

77 216.9 107.2 321.6

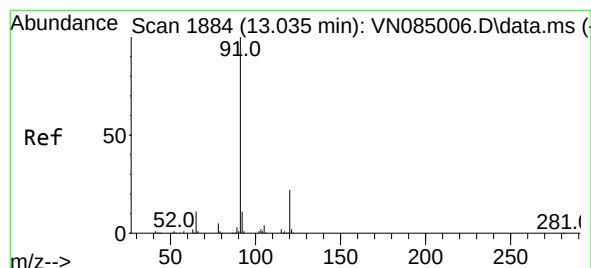
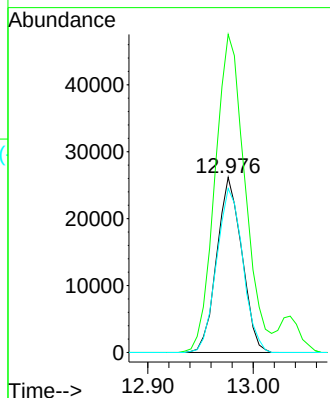
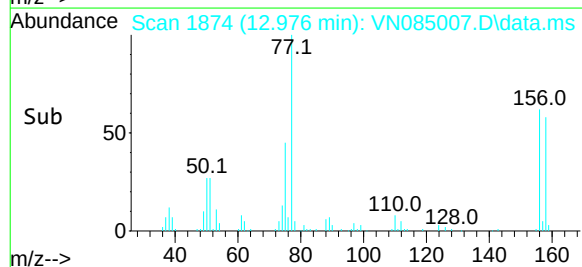
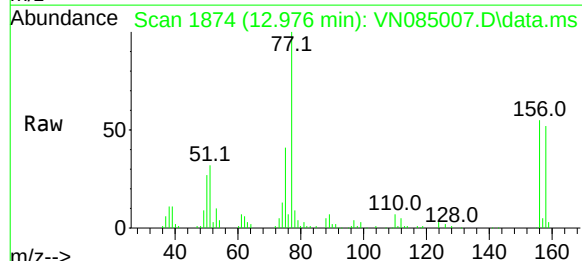
158 97.6 48.5 145.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#78

n-propylbenzene

Concen: 20.653 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. -0.000 min

Lab File: VN085007.D

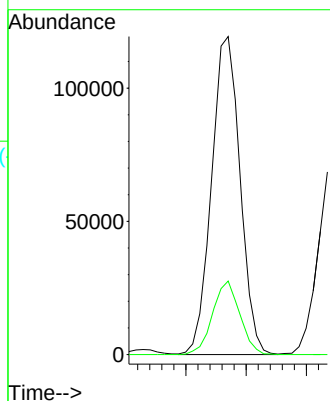
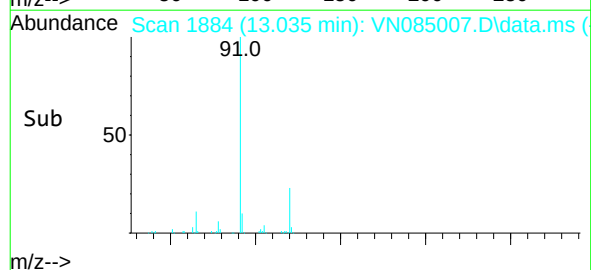
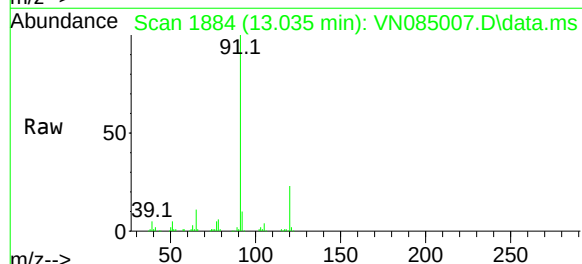
Acq: 22 Nov 2024 12:10

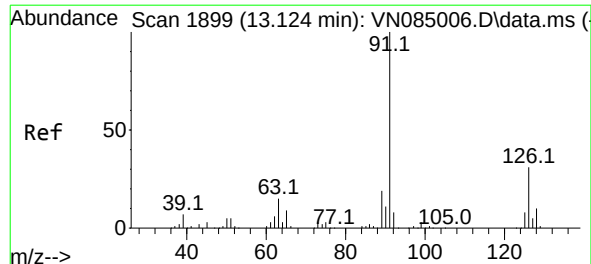
Tgt Ion: 91 Resp: 196551

Ion Ratio Lower Upper

91 100

120 22.0 11.3 33.9





#79

2-Chlorotoluene

Concen: 20.261 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 128714

Ion Ratio Lower Upper

91 100

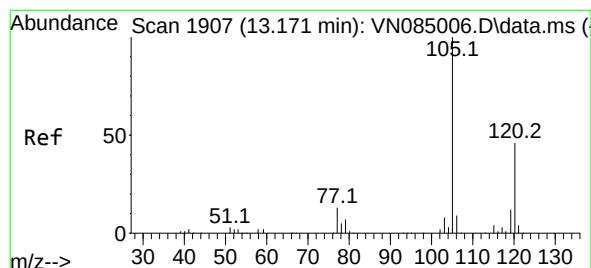
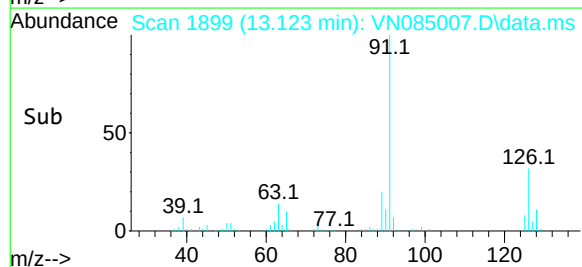
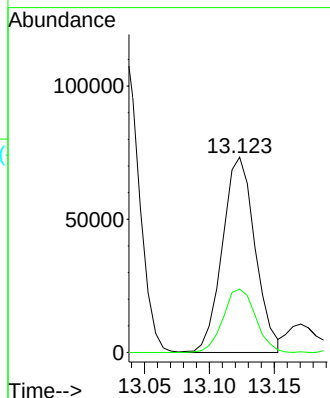
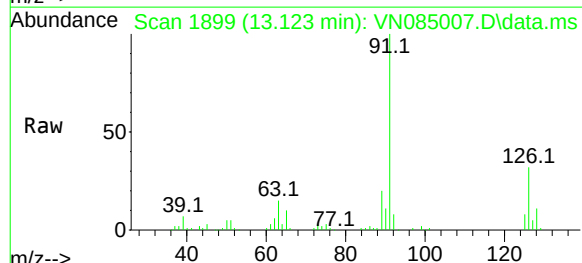
126 32.2 16.1 48.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#80

1,3,5-Trimethylbenzene

Concen: 21.048 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN085007.D

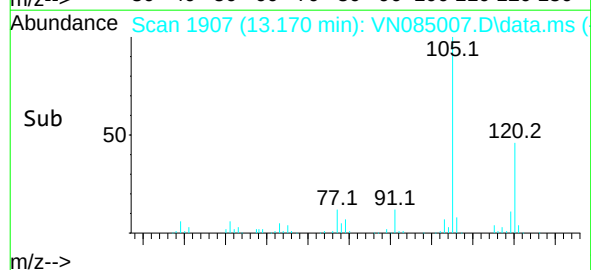
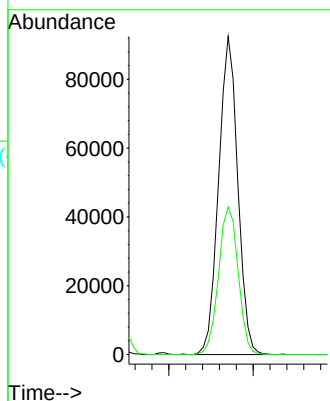
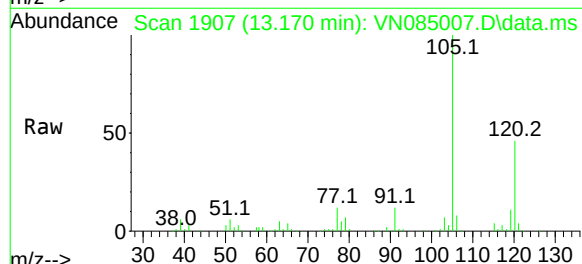
Acq: 22 Nov 2024 12:10

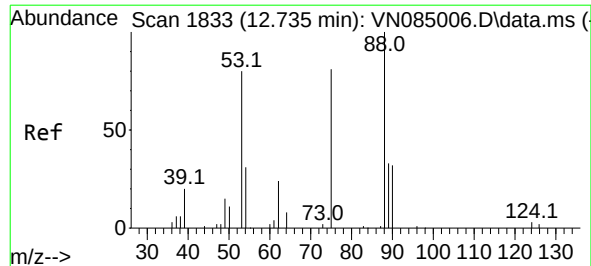
Tgt Ion:105 Resp: 145726

Ion Ratio Lower Upper

105 100

120 47.6 23.6 71.0





#81

trans-1,4-Dichloro-2-butene

Concen: 20.144 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

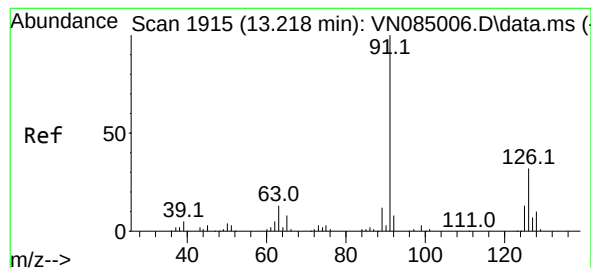
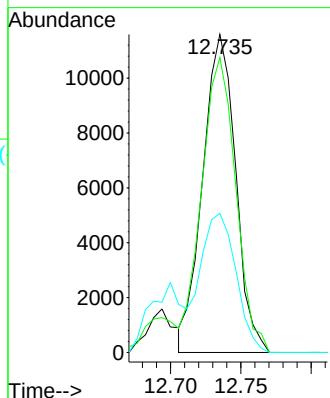
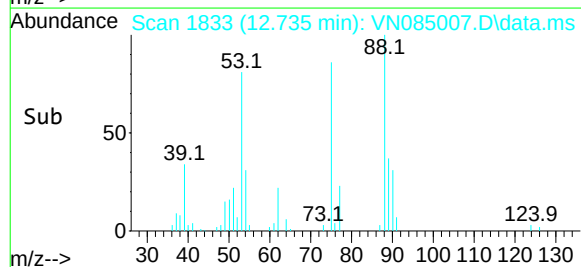
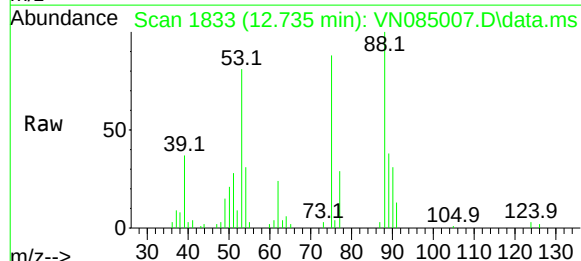
ClientSampleId :

VSTDICC020

Tgt Ion:	75	Resp:	18860
Ion	Ratio	Lower	Upper
75	100		
53	96.4	78.2	117.4
89	46.7	37.9	56.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#82

4-Chlorotoluene

Concen: 20.131 ug/l

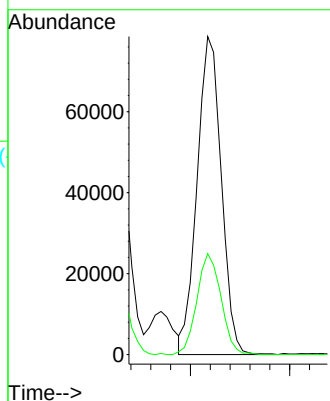
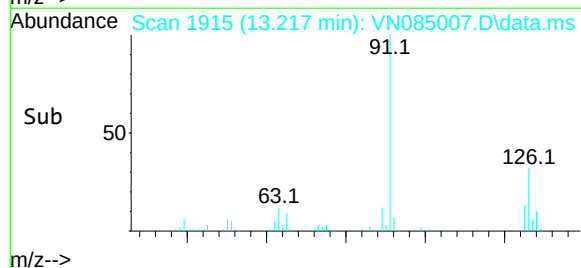
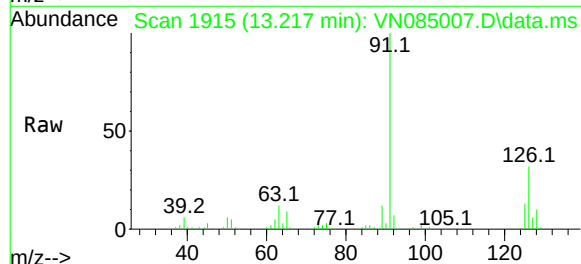
RT: 13.217 min Scan# 1915

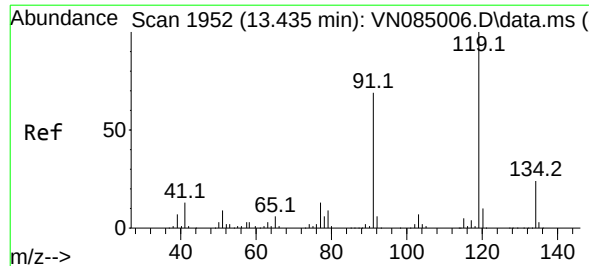
Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Tgt Ion:	91	Resp:	133131
Ion	Ratio	Lower	Upper
91	100		
126	31.6	16.1	48.3





#83

tert-Butylbenzene

Concen: 20.344 ug/l

RT: 13.435 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion:119 Resp: 121188

Ion Ratio Lower Upper

119 100

91 71.2 35.1 105.5

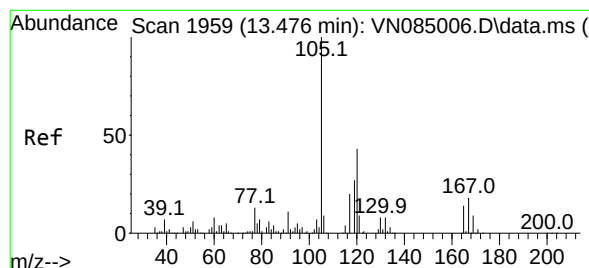
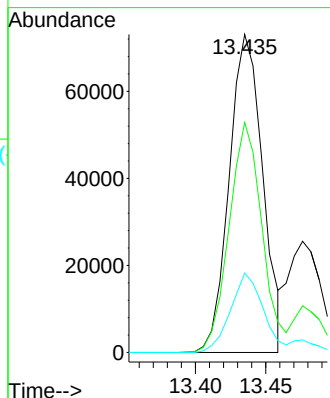
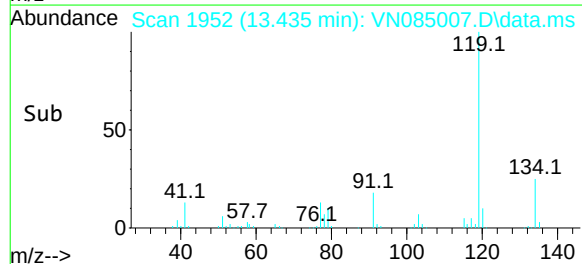
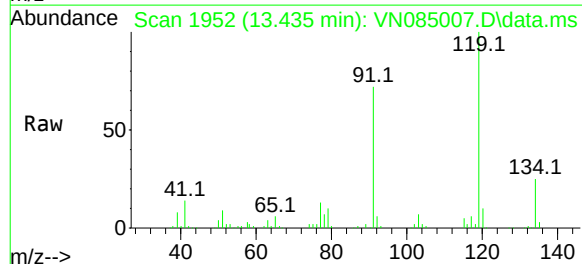
134 24.3 12.1 36.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#84

1,2,4-Trimethylbenzene

Concen: 20.974 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. -0.000 min

Lab File: VN085007.D

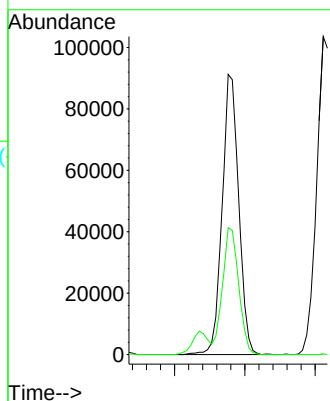
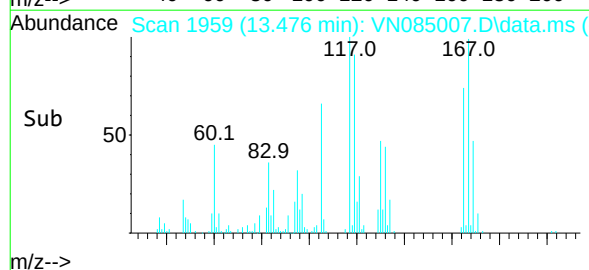
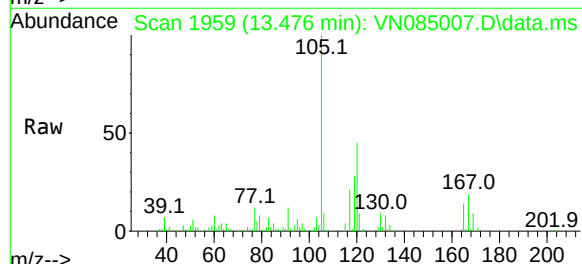
Acq: 22 Nov 2024 12:10

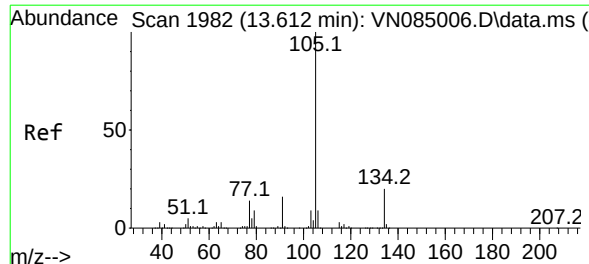
Tgt Ion:105 Resp: 149479

Ion Ratio Lower Upper

105 100

120 44.4 21.8 65.4





#85

sec-Butylbenzene

Concen: 20.885 ug/l

RT: 13.611 min Scan# 1982

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion:105 Resp: 168068

Ion Ratio Lower Upper

105 100

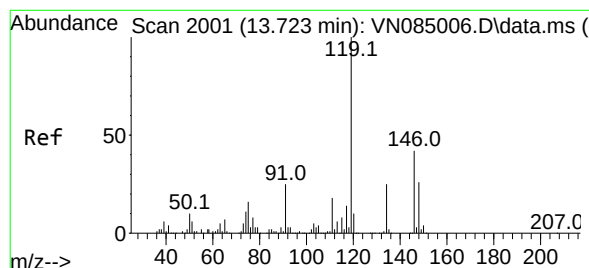
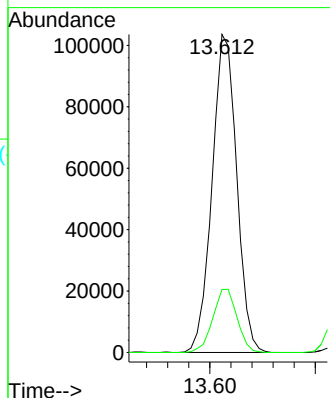
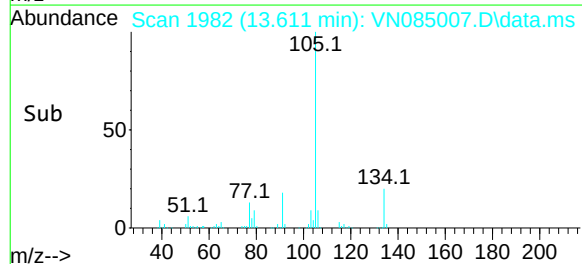
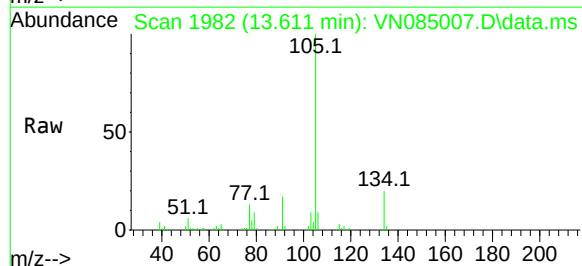
134 19.6 9.8 29.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#86

p-Isopropyltoluene

Concen: 21.653 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

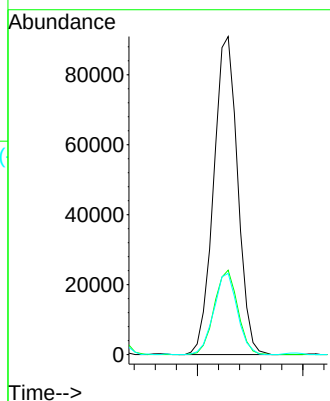
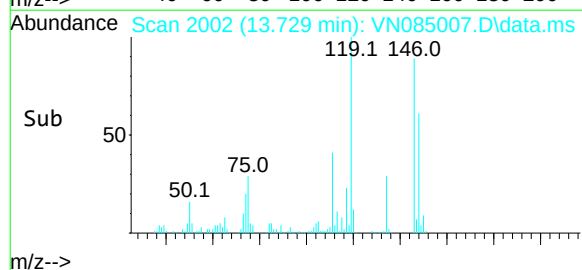
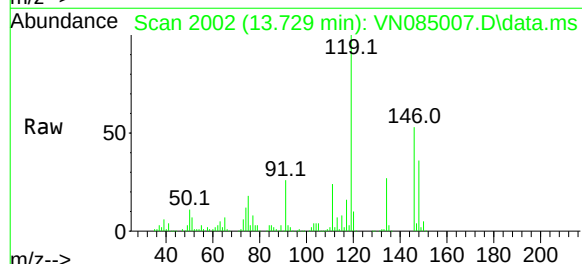
Tgt Ion:119 Resp: 143841

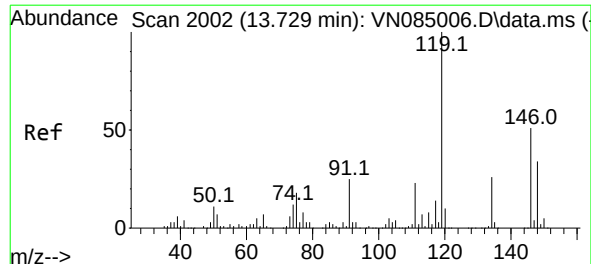
Ion Ratio Lower Upper

119 100

134 25.9 13.0 39.0

91 25.0 12.8 38.4





#87

1,3-Dichlorobenzene

Concen: 19.066 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

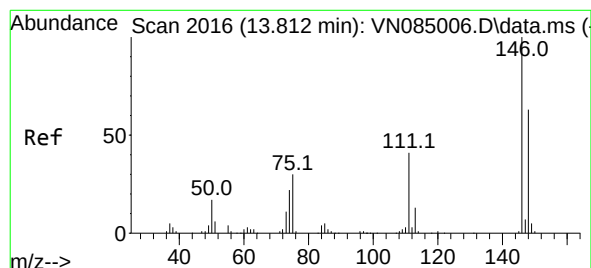
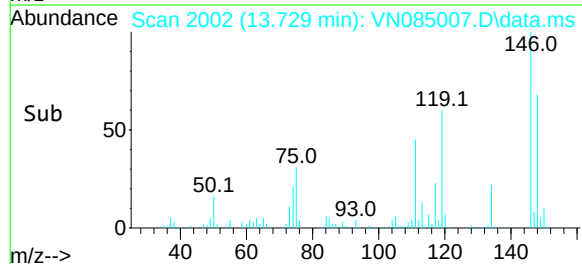
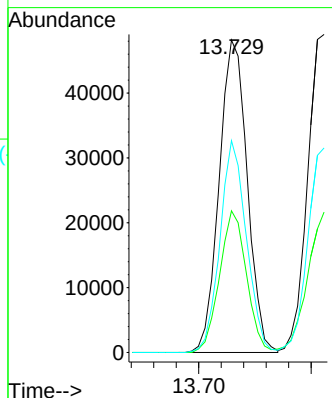
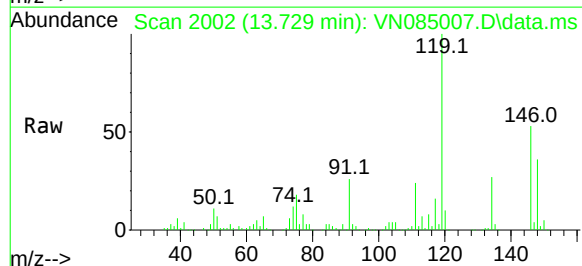
ClientSampleId :

VSTDICC020

Tgt Ion:	146	Resp:	83500
Ion Ratio	Lower	Upper	
146	100		
111	43.5	21.6	65.0
148	63.9	32.2	96.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#88

1,4-Dichlorobenzene

Concen: 19.041 ug/l

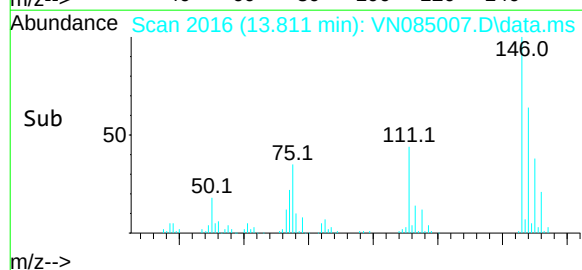
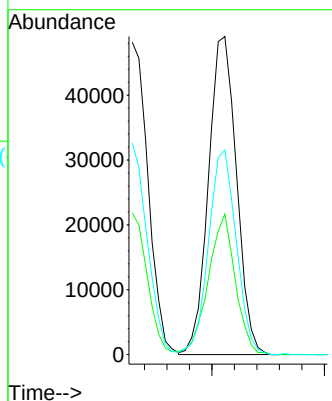
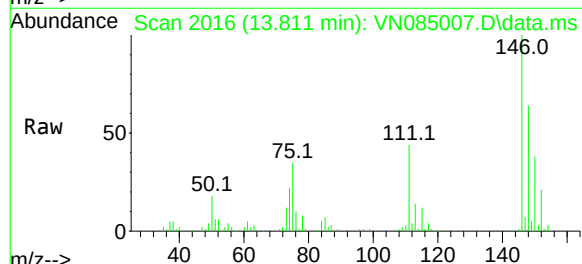
RT: 13.811 min Scan# 2016

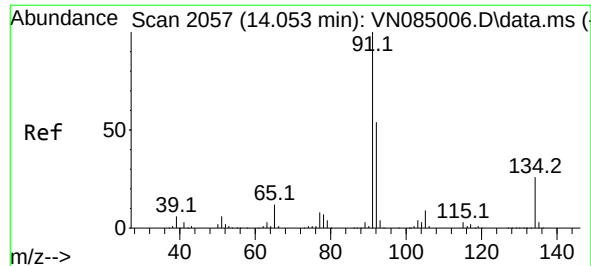
Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Tgt Ion:	146	Resp:	85098
Ion Ratio	Lower	Upper	
146	100		
111	42.7	20.9	62.8
148	63.5	31.3	93.9





#89

n-Butylbenzene

Concen: 19.790 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

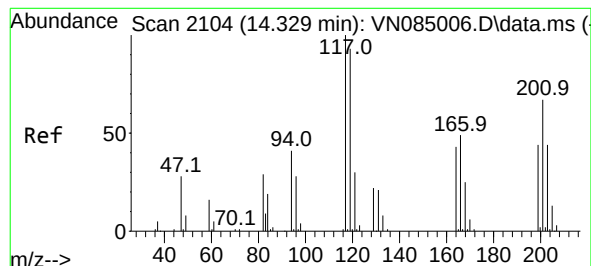
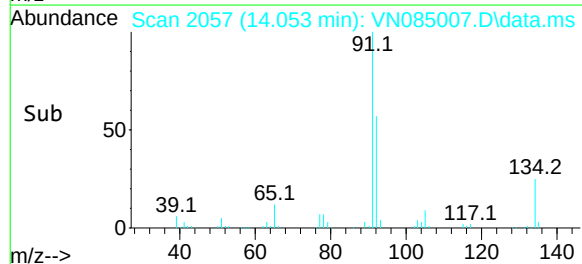
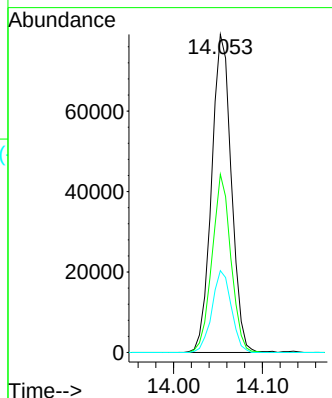
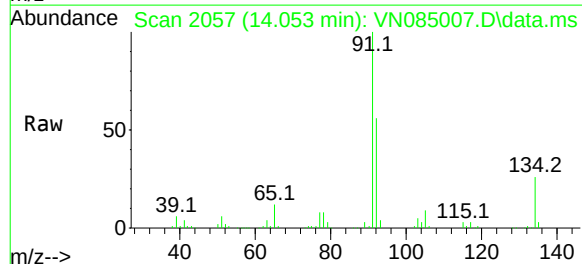
ClientSampleId :

VSTDICC020

Tgt Ion:	91	Resp:	122257
Ion	Ratio	Lower	Upper
91	100		
92	53.5	26.8	80.3
134	25.1	12.8	38.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#90

Hexachloroethane

Concen: 19.267 ug/l

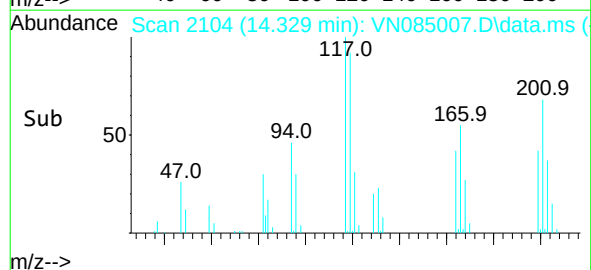
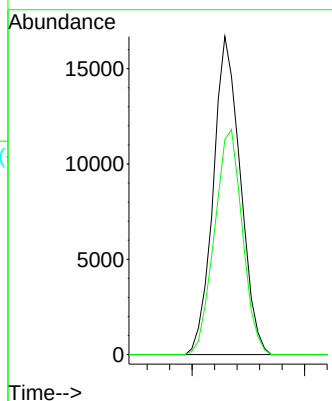
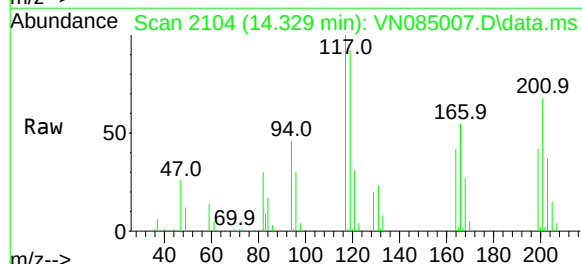
RT: 14.329 min Scan# 2104

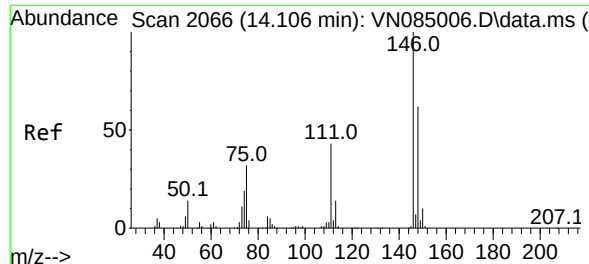
Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Tgt Ion:	117	Resp:	27899
Ion	Ratio	Lower	Upper
117	100		
201	72.9	35.2	105.6





#91

1,2-Dichlorobenzene

Concen: 19.579 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion:146 Resp: 82164

Ion Ratio Lower Upper

146 100

111 43.8 21.9 65.8

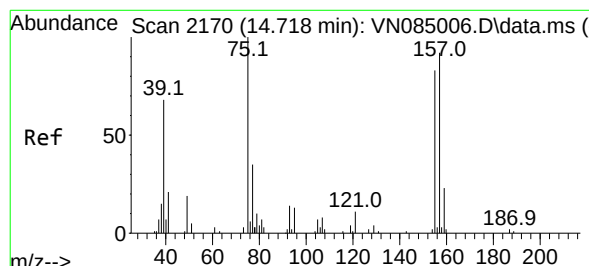
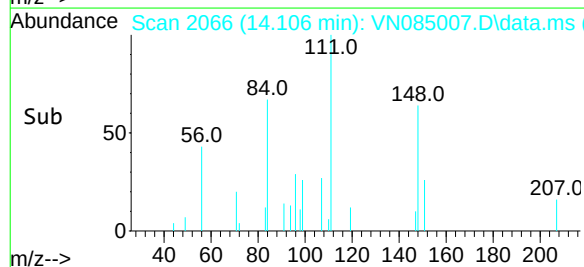
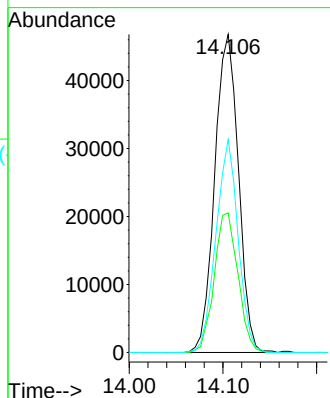
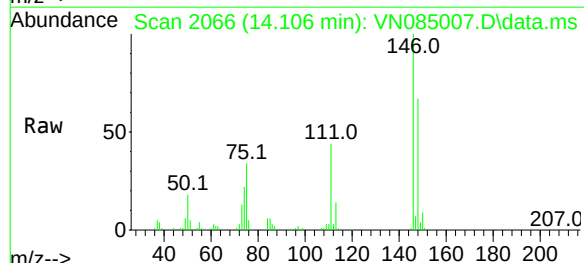
148 62.9 31.1 93.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 19.517 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

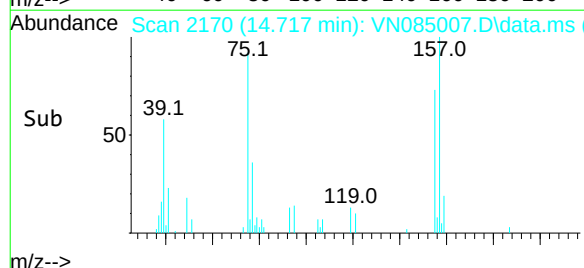
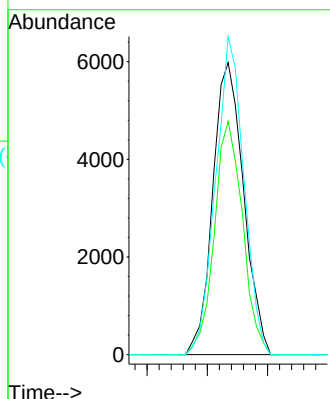
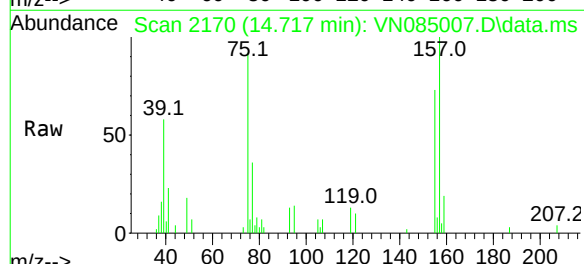
Tgt Ion: 75 Resp: 10633

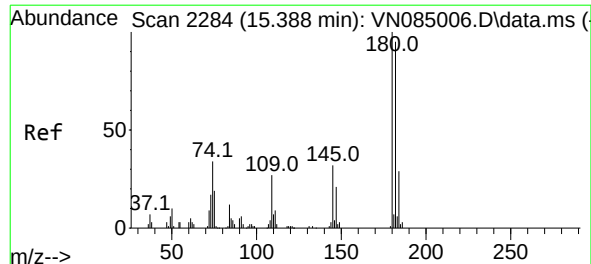
Ion Ratio Lower Upper

75 100

155 73.2 38.9 116.7

157 99.9 48.3 144.9





#93

1,2,4-Trichlorobenzene

Concen: 19.467 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

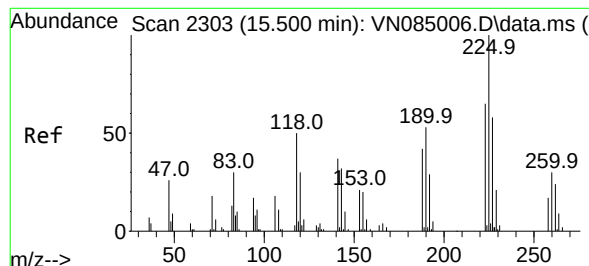
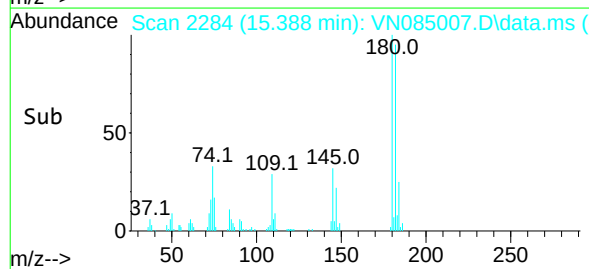
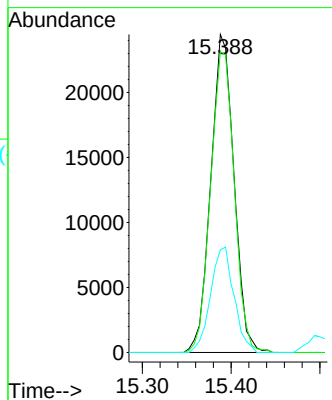
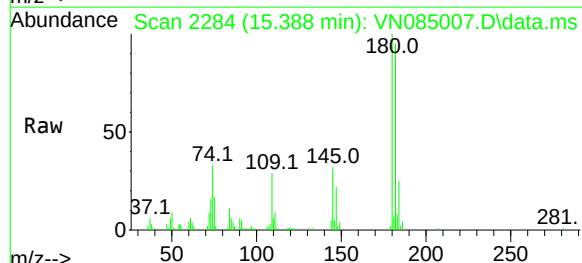
VSTDICC020

Tgt Ion:	180	Resp:	44383
Ion Ratio	Lower	Upper	
180	100		
182	96.5	46.9	140.8
145	33.4	16.3	48.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#94

Hexachlorobutadiene

Concen: 19.618 ug/l

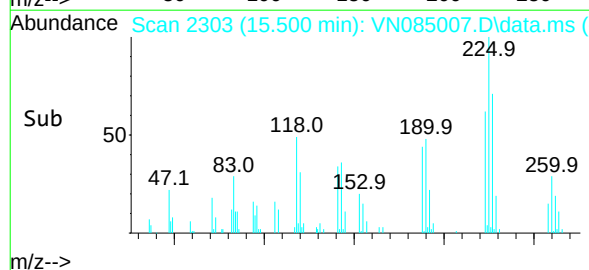
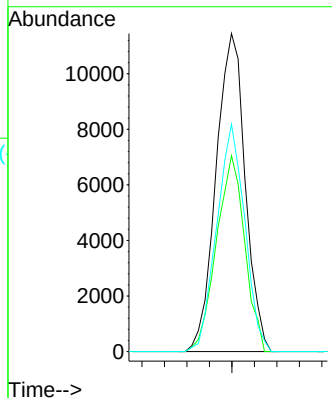
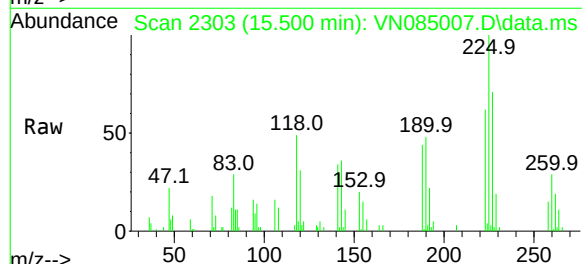
RT: 15.500 min Scan# 2303

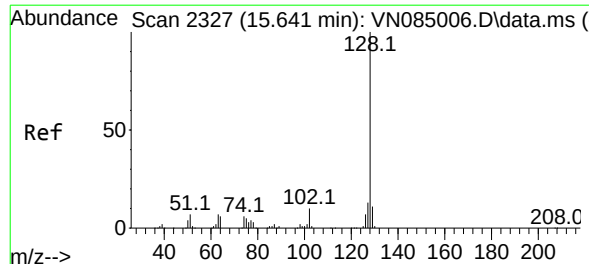
Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Tgt Ion:	225	Resp:	20642
Ion Ratio	Lower	Upper	
225	100		
223	59.6	30.9	92.8
227	68.7	31.5	94.5





#95

Naphthalene

Concen: 20.454 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. -0.000 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Instrument :

MSVOA_N

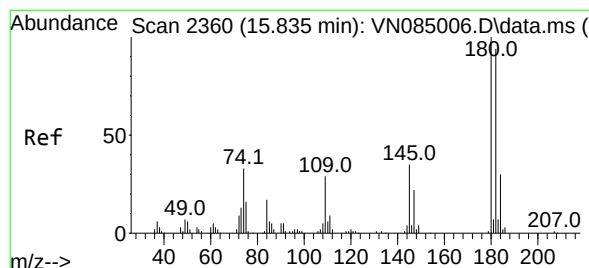
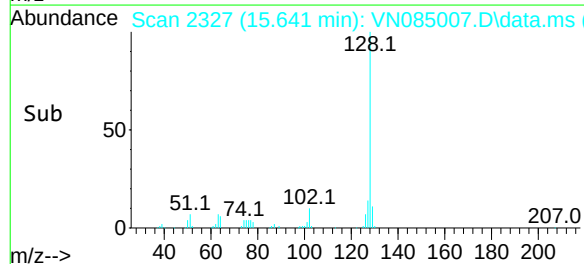
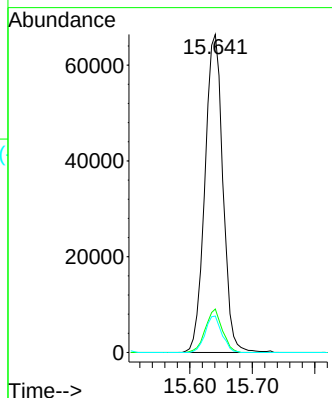
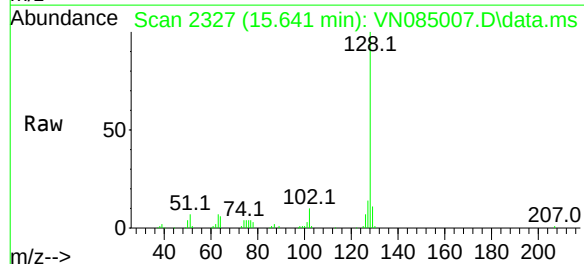
ClientSampleId :

VSTDICC020

Tgt Ion:	128	Resp:	132816
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.6	16.0
129	10.6	8.6	12.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#96

1,2,3-Trichlorobenzene

Concen: 20.293 ug/l

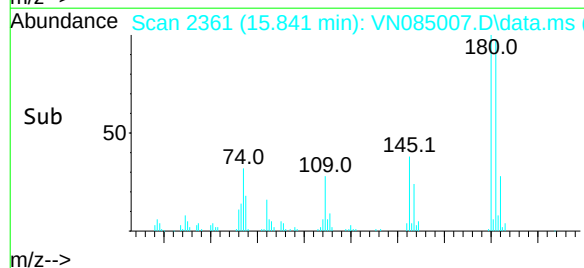
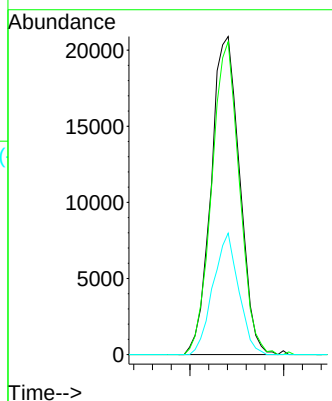
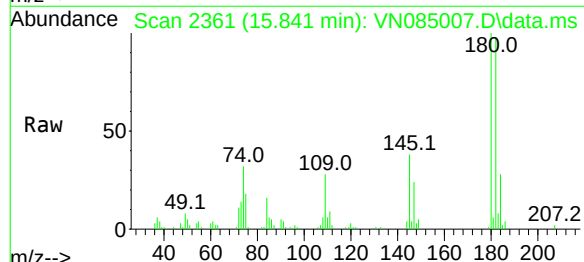
RT: 15.841 min Scan# 2361

Delta R.T. 0.006 min

Lab File: VN085007.D

Acq: 22 Nov 2024 12:10

Tgt Ion:	180	Resp:	44145
Ion	Ratio	Lower	Upper
180	100		
182	95.1	46.4	139.2
145	34.3	17.3	52.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085008.D
Acq On : 22 Nov 2024 12:34
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Quant Time: Nov 23 02:00:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	161407	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	278264	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	234609	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	110358	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.571	65	23734	10.323	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	20.640%#
35) Dibromofluoromethane	8.159	113	18392	9.801	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	19.600%#
50) Toluene-d8	10.559	98	64656	9.614	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	19.220%#
62) 4-Bromofluorobenzene	12.847	95	24371	9.691	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	19.380%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	17355	9.509	ug/l	98
3) Chloromethane	2.359	50	19463	9.194	ug/l	93
4) Vinyl Chloride	2.512	62	18378	9.661	ug/l	99
5) Bromomethane	2.901	94	10681	10.017	ug/l	99
6) Chloroethane	3.077	64	12602	9.828	ug/l #	88
7) Trichlorofluoromethane	3.477	101	30566	9.445	ug/l	98
8) Diethyl Ether	3.953	74	10394	9.437	ug/l	89
9) 1,1,2-Trichlorotrifluo...	4.353	101	17791	9.693	ug/l	98
10) Methyl Iodide	4.583	142	22722	9.353	ug/l	95
11) Tert butyl alcohol	5.542	59	15491	50.421	ug/l #	81
12) 1,1-Dichloroethene	4.324	96	16330	9.532	ug/l	93
13) Acrolein	4.183	56	10601	51.710	ug/l	99
14) Allyl chloride	5.006	41	28006	9.697	ug/l	97
15) Acrylonitrile	5.718	53	40469	46.525	ug/l	98
16) Acetone	4.430	43	32743	48.900	ug/l	99
17) Carbon Disulfide	4.700	76	47181	9.331	ug/l #	93
18) Methyl Acetate	5.018	43	23065	9.856	ug/l	100
19) Methyl tert-butyl Ether	5.795	73	53672	9.589	ug/l	96
20) Methylene Chloride	5.271	84	19680	9.632	ug/l	93
21) trans-1,2-Dichloroethene	5.777	96	16759	9.296	ug/l	92
22) Diisopropyl ether	6.665	45	56475	9.716	ug/l	99
23) Vinyl Acetate	6.594	43	192330	47.962	ug/l	100
24) 1,1-Dichloroethane	6.559	63	33350	9.588	ug/l #	92
25) 2-Butanone	7.477	43	51223	46.790	ug/l	95
26) 2,2-Dichloropropane	7.477	77	30494	9.388	ug/l	98
27) cis-1,2-Dichloroethene	7.477	96	20469	9.418	ug/l	99
28) Bromochloromethane	7.806	49	12594	9.591	ug/l	95
29) Tetrahydrofuran	7.841	42	32197	47.294	ug/l	99
30) Chloroform	7.959	83	34651	9.365	ug/l	98
31) Cyclohexane	8.253	56	29526	9.641	ug/l	95
32) 1,1,1-Trichloroethane	8.165	97	32054	9.587	ug/l	98
36) 1,1-Dichloropropene	8.371	75	23205	9.130	ug/l	99
37) Ethyl Acetate	7.559	43	22487	9.732	ug/l #	97
38) Carbon Tetrachloride	8.353	117	26952	9.186	ug/l	97
39) Methylcyclohexane	9.594	83	23924	9.058	ug/l	96
40) Benzene	8.600	78	75597	9.404	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085008.D
Acq On : 22 Nov 2024 12:34
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Quant Time: Nov 23 02:00:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	12417	9.705	ug/l	99
42) 1,2-Dichloroethane	8.659	62	25169	9.152	ug/l	100
43) Isopropyl Acetate	8.688	43	43717	9.108	ug/l	95
44) Trichloroethene	9.347	130	17835	9.547	ug/l	90
45) 1,2-Dichloropropane	9.618	63	18902	9.546	ug/l	98
46) Dibromomethane	9.706	93	12540	9.114	ug/l	96
47) Bromodichloromethane	9.888	83	27136	9.306	ug/l	95
48) Methyl methacrylate	9.677	41	16793	9.402	ug/l	95
49) 1,4-Dioxane	9.694	88	6366	205.527	ug/l #	90
51) 4-Methyl-2-Pentanone	10.441	43	106422	48.544	ug/l	100
52) Toluene	10.630	92	44072	9.261	ug/l	95
53) t-1,3-Dichloropropene	10.835	75	27040	9.249	ug/l	98
54) cis-1,3-Dichloropropene	10.306	75	28183	9.087	ug/l	99
55) 1,1,2-Trichloroethane	11.012	97	17498	9.871	ug/l	98
56) Ethyl methacrylate	10.871	69	24309	9.385	ug/l	99
57) 1,3-Dichloropropane	11.159	76	29257	9.378	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.153	63	61252	48.207	ug/l	97
59) 2-Hexanone	11.194	43	77951	47.542	ug/l	98
60) Dibromochloromethane	11.353	129	19478	8.991	ug/l	97
61) 1,2-Dibromoethane	11.465	107	17673	9.633	ug/l	95
64) Tetrachloroethene	11.100	164	15092	9.547	ug/l	94
65) Chlorobenzene	11.888	112	51106	9.605	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.959	131	17966	9.590	ug/l	98
67) Ethyl Benzene	11.959	91	79668	9.229	ug/l	95
68) m/p-Xylenes	12.071	106	62195	18.925	ug/l	98
69) o-Xylene	12.394	106	30067	9.618	ug/l	95
70) Styrene	12.412	104	50150	9.647	ug/l	99
71) Bromoform	12.576	173	12832	9.228	ug/l #	96
73) Isopropylbenzene	12.694	105	75080	9.644	ug/l	98
74) N-amyl acetate	12.488	43	29811	9.292	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.935	83	25341	9.532	ug/l	98
76) 1,2,3-Trichloropropane	12.988	75	16940m	8.206	ug/l	
77) Bromobenzene	12.976	156	19904	9.500	ug/l	99
78) n-propylbenzene	13.035	91	85642	9.537	ug/l	98
79) 2-Chlorotoluene	13.123	91	58233	9.715	ug/l	98
80) 1,3,5-Trimethylbenzene	13.171	105	63212	9.676	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	8603	9.738	ug/l	99
82) 4-Chlorotoluene	13.218	91	60156	9.640	ug/l	100
83) tert-Butylbenzene	13.435	119	53773	9.566	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	64606	9.607	ug/l	99
85) sec-Butylbenzene	13.618	105	72405	9.535	ug/l	99
86) p-Isopropyltoluene	13.729	119	60467	9.647	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	38501	9.317	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	39471	9.360	ug/l	99
89) n-Butylbenzene	14.059	91	52430	8.994	ug/l	100
90) Hexachloroethane	14.335	117	12541	9.179	ug/l	98
91) 1,2-Dichlorobenzene	14.106	146	37183	9.390	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	4917	9.565	ug/l	99
93) 1,2,4-Trichlorobenzene	15.394	180	20285	9.429	ug/l	97
94) Hexachlorobutadiene	15.500	225	9015	9.080	ug/l	98
95) Naphthalene	15.641	128	54191	8.844	ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	18745	9.132	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085008.D
Acq On : 22 Nov 2024 12:34
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024

Quant Time: Nov 23 02:00:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 2024
Response via : Initial Calibration

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

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

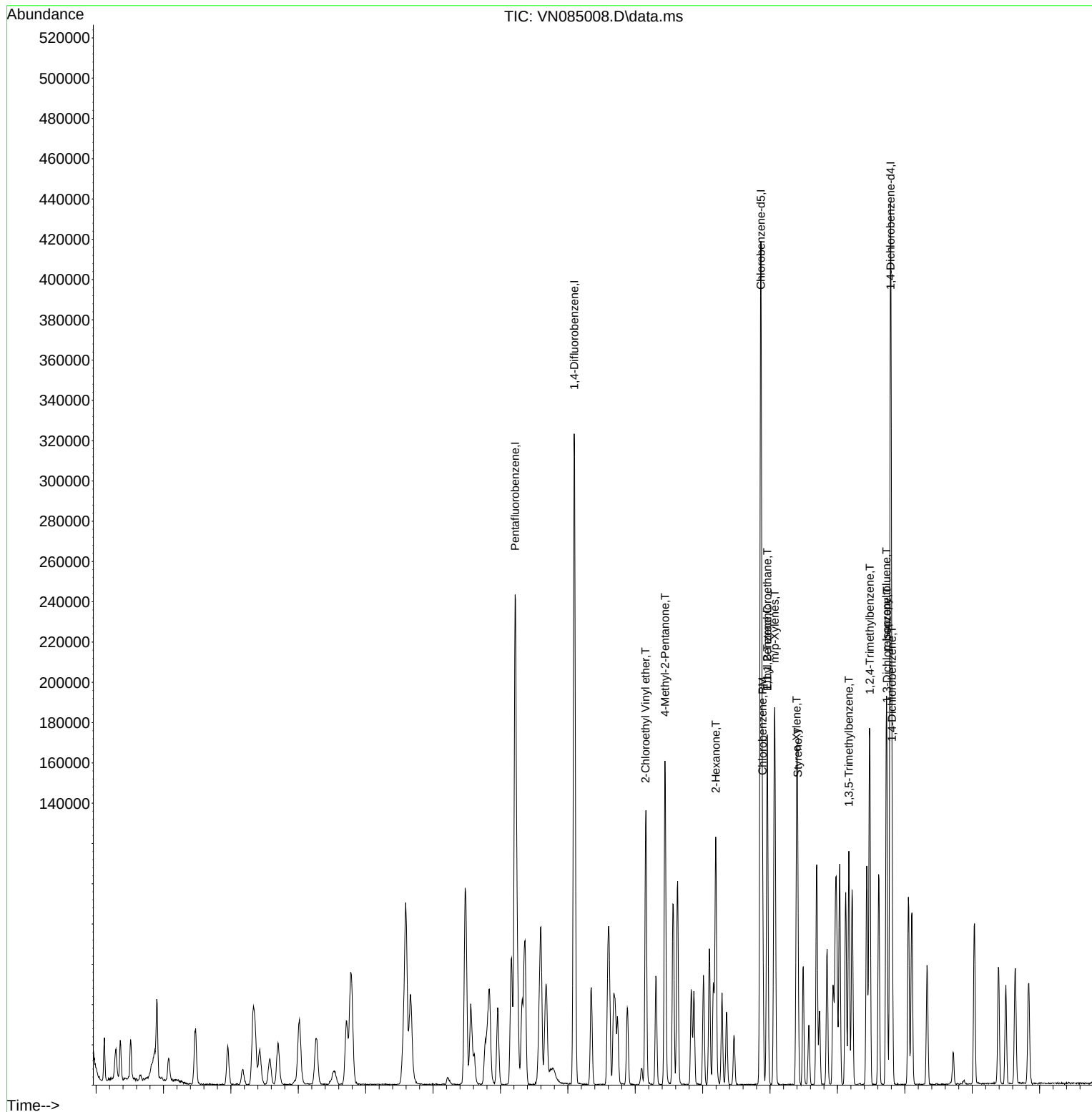
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Data File : VN085008.D
Acq On : 22 Nov 2024 12:34
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

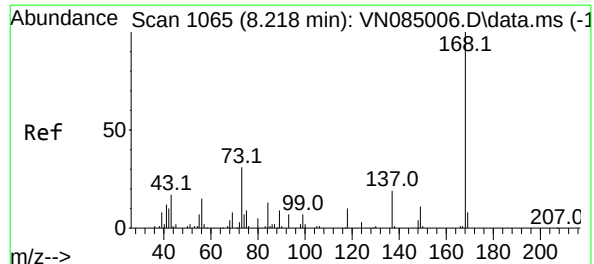
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Quant Time: Nov 23 02:00:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : John Carlone 11/25/2024
Supervised By : Mahesh Dadoda 11/25/2024





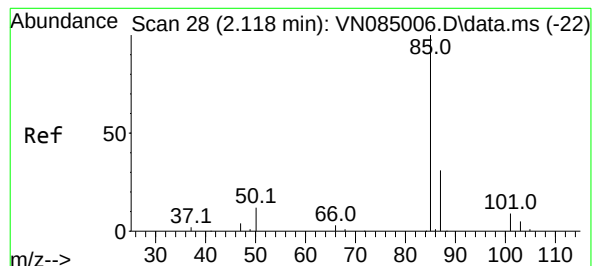
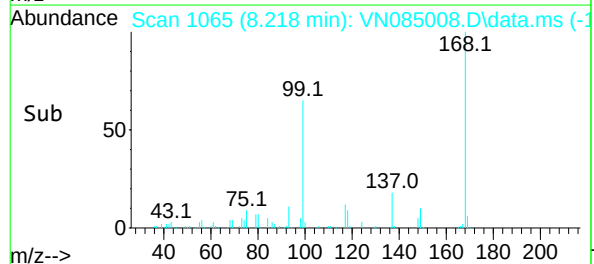
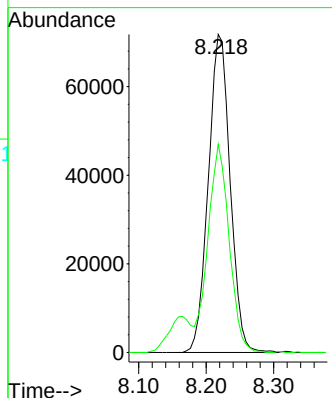
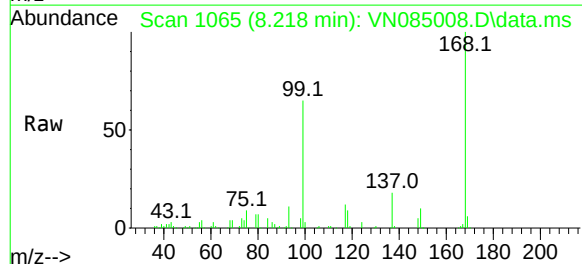
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085008.D
Acq: 22 Nov 2024 12:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 168 Resp: 161407
Ion Ratio Lower Upper
168 100
99 65.2 51.2 76.8

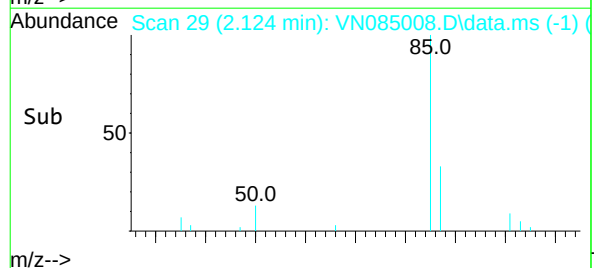
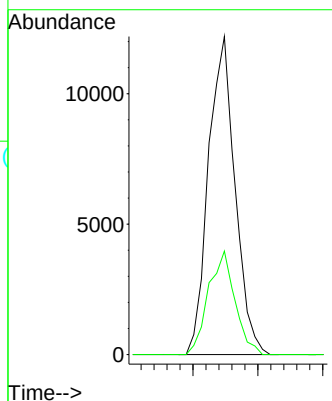
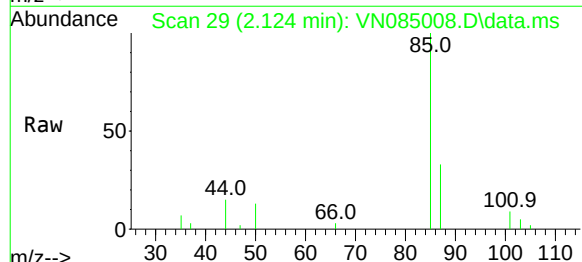
Manual Integrations
APPROVED

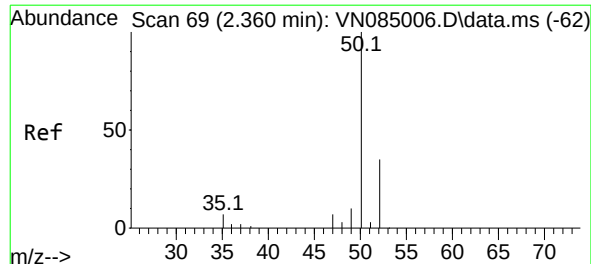
Reviewed By : John Carlone 11/25/2024
Supervised By : Mahesh Dadoda 11/25/2024



#2
Dichlorodifluoromethane
Concen: 9.509 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.006 min
Lab File: VN085008.D
Acq: 22 Nov 2024 12:34

Tgt Ion: 85 Resp: 17355
Ion Ratio Lower Upper
85 100
87 32.5 15.7 47.1





#3

Chloromethane

Concen: 9.194 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 50 Resp: 19463

Ion Ratio Lower Upper

50 100

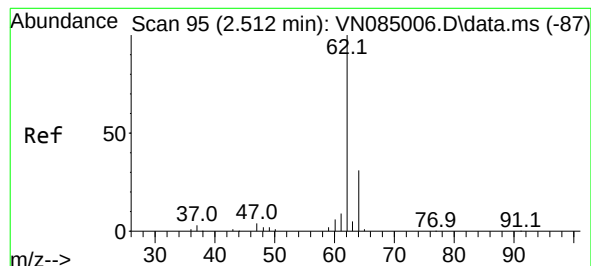
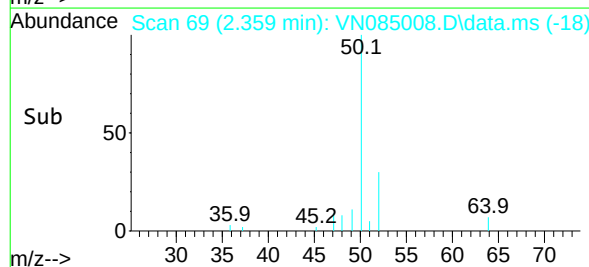
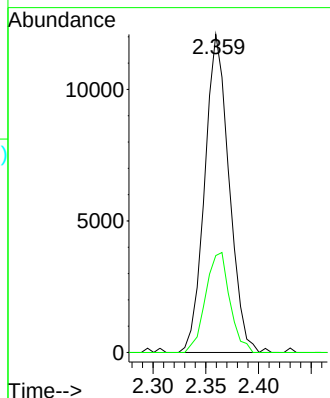
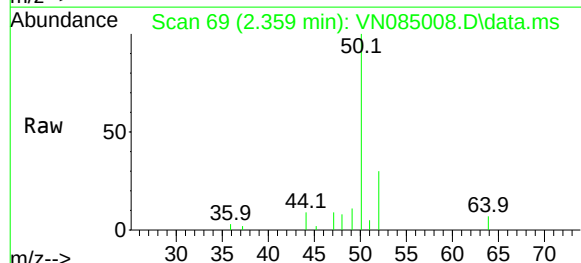
52 30.5 27.8 41.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#4

Vinyl Chloride

Concen: 9.661 ug/l

RT: 2.512 min Scan# 95

Delta R.T. -0.000 min

Lab File: VN085008.D

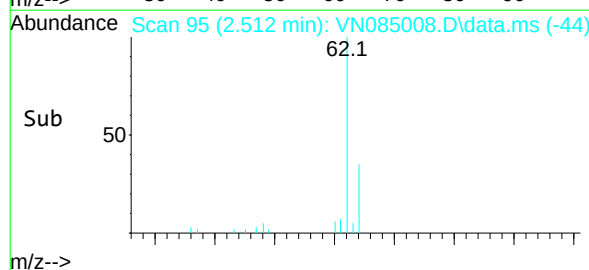
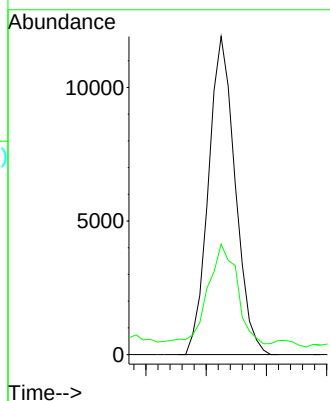
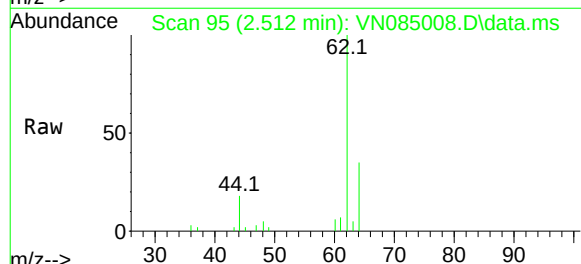
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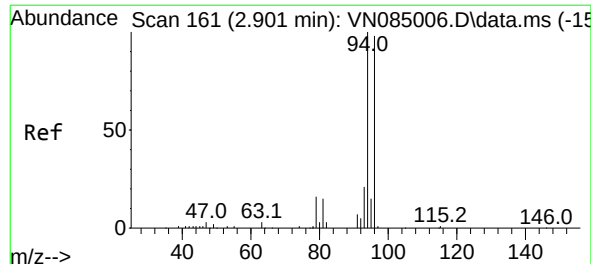
Tgt Ion: 62 Resp: 18378

Ion Ratio Lower Upper

62 100

64 30.3 24.6 36.8





#5

Bromomethane

Concen: 10.017 ug/l

RT: 2.901 min Scan# 161

Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 94 Resp: 10681

Ion Ratio Lower Upper

94 100

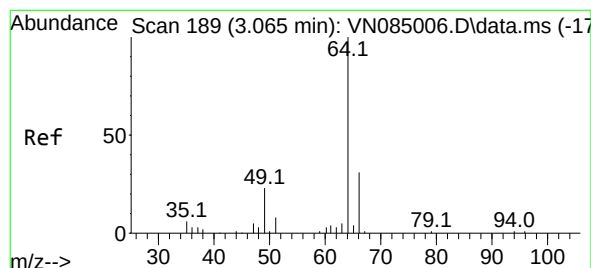
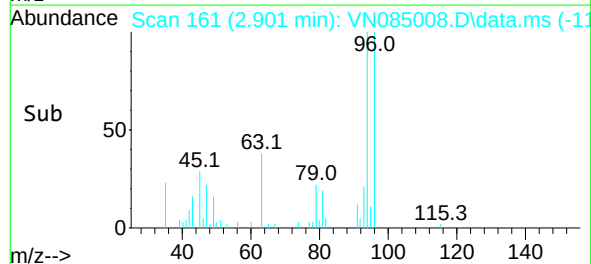
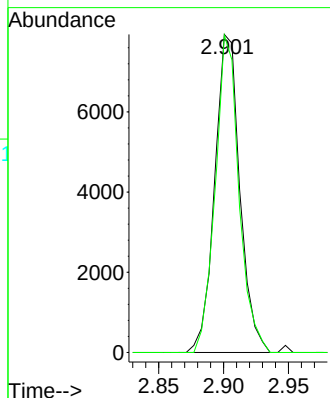
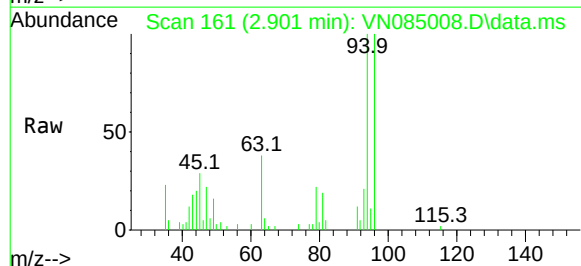
96 99.7 78.7 118.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#6

Chloroethane

Concen: 9.828 ug/l

RT: 3.077 min Scan# 191

Delta R.T. 0.012 min

Lab File: VN085008.D

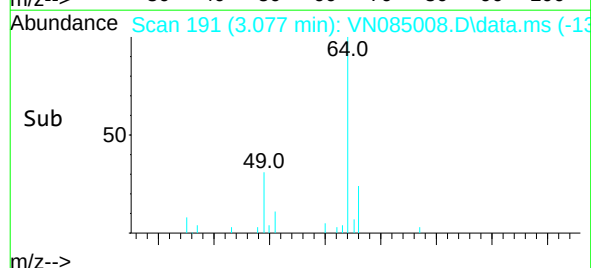
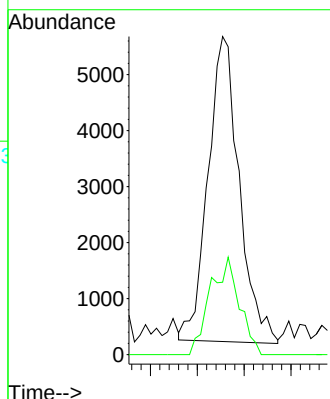
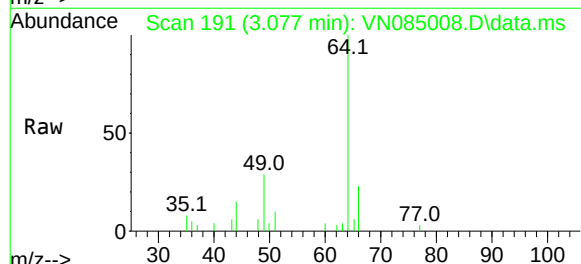
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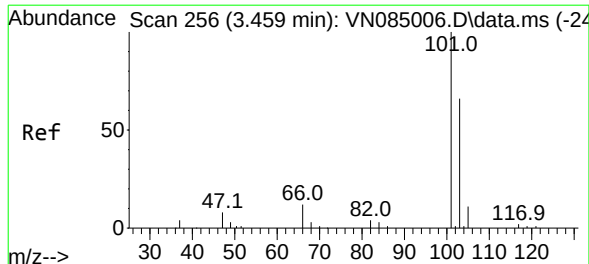
Tgt Ion: 64 Resp: 12602

Ion Ratio Lower Upper

64 100

66 23.8 24.4 36.6#





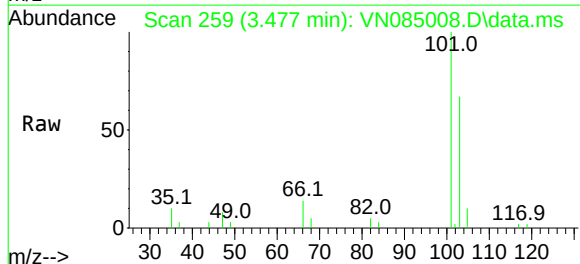
#7
 Trichlorofluoromethane
 Concen: 9.445 ug/l
 RT: 3.477 min Scan# 256
 Delta R.T. 0.018 min
 Lab File: VN085008.D
 Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

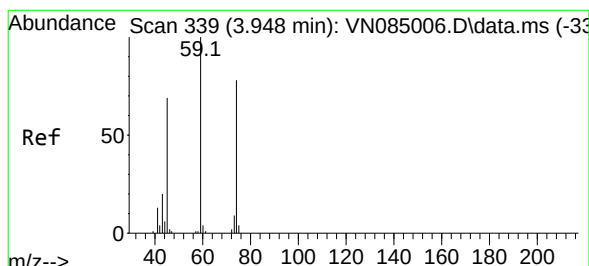
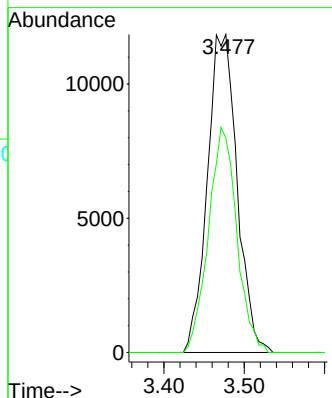
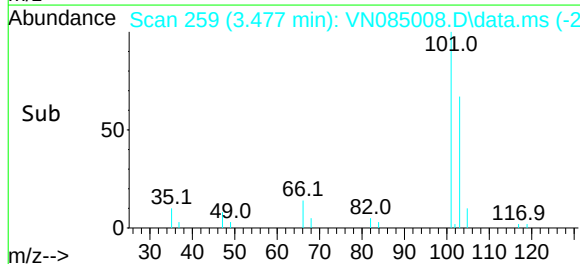
VSTDICC010



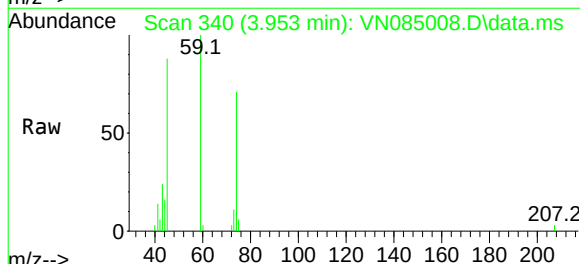
Tgt Ion: 101 Resp: 30566
 Ion Ratio Lower Upper
 101 100
 103 67.4 52.6 78.8

Manual Integrations
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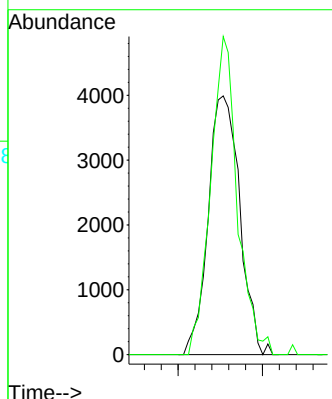
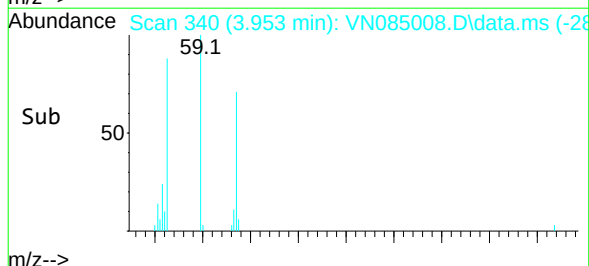
Reviewed By : John Carlone 11/25/2024
 Supervised By : Mahesh Dadoda 11/25/2024

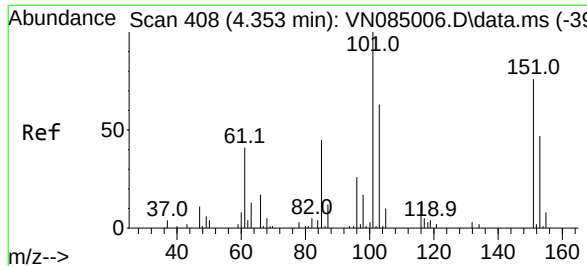


#8
 Diethyl Ether
 Concen: 9.437 ug/l
 RT: 3.953 min Scan# 340
 Delta R.T. 0.006 min
 Lab File: VN085008.D
 Acq: 22 Nov 2024 12:34



Tgt Ion: 74 Resp: 10394
 Ion Ratio Lower Upper
 74 100
 45 104.3 46.7 140.1





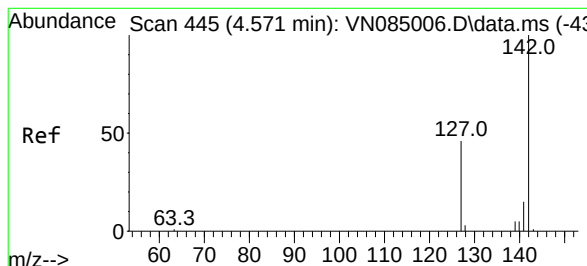
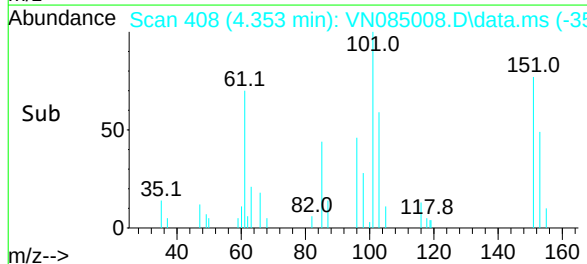
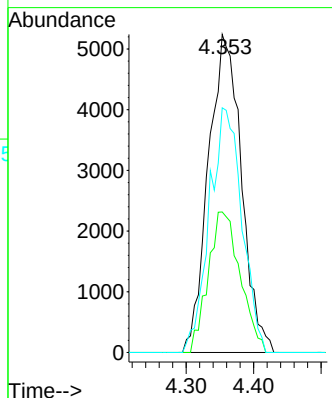
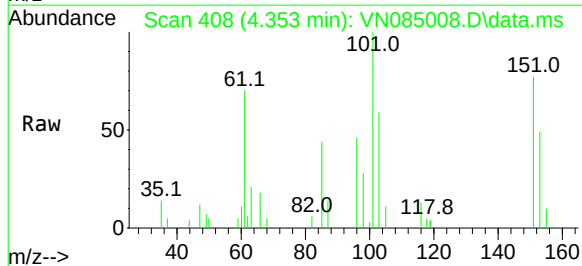
#9
1,1,2-Trichlorotrifluoroethane
Concen: 9.693 ug/l
RT: 4.353 min Scan# 408
Delta R.T. -0.000 min
Lab File: VN085008.D
Acq: 22 Nov 2024 12:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt	Ion	Ratio	Lower	Upper
101	101	100		
85	42.9	36.9	55.3	
151	75.7	60.8	91.2	

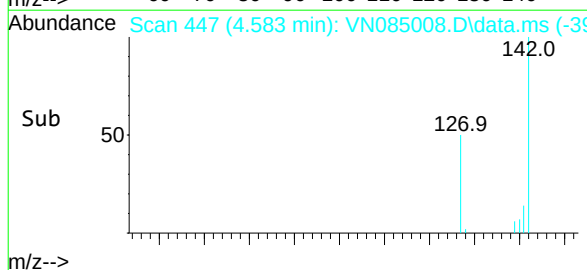
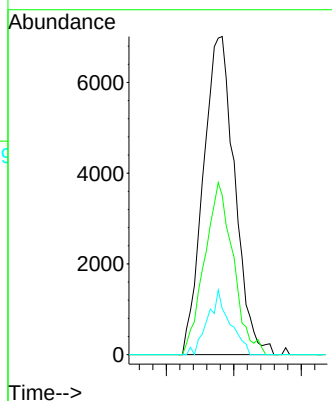
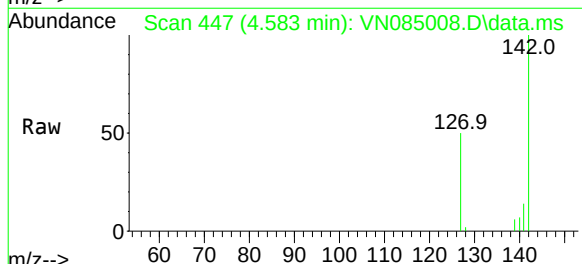
Manual Integrations
APPROVED

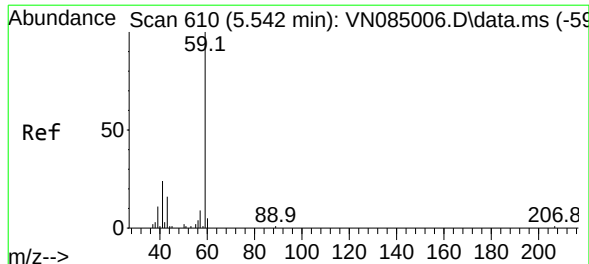
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#10
Methyl Iodide
Concen: 9.353 ug/l
RT: 4.583 min Scan# 447
Delta R.T. 0.012 min
Lab File: VN085008.D
Acq: 22 Nov 2024 12:34

Tgt	Ion	Ratio	Lower	Upper
142	142	100		
127	50.1	36.6	54.8	
141	14.5	12.2	18.4	





#11

Tert butyl alcohol

Concen: 50.421 ug/l

RT: 5.542 min Scan# 61

Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Tgt Ion: 59 Resp: 15491

Ion Ratio Lower Upper

59 100

57 2.2 7.4 11.0#

Instrument :

MSVOA_N

ClientSampleId :

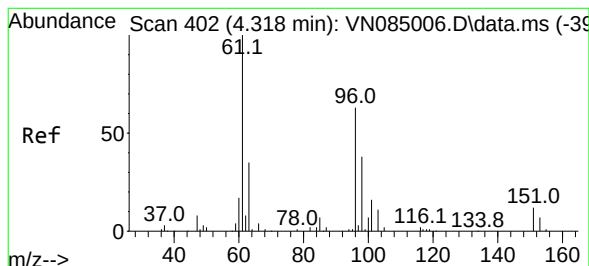
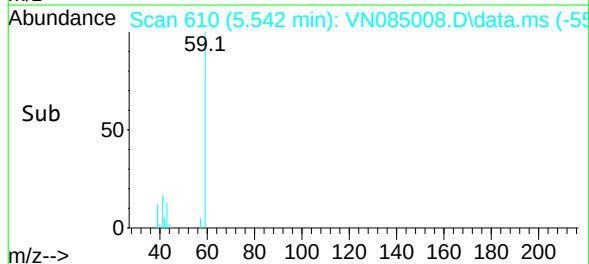
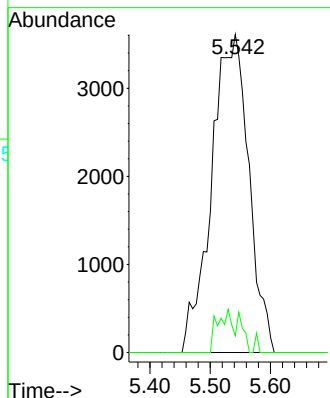
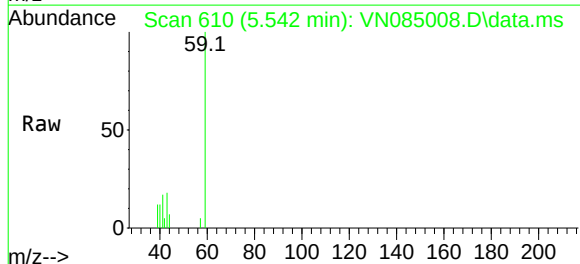
VSTDICC010

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#12

1,1-Dichloroethene

Concen: 9.532 ug/l

RT: 4.324 min Scan# 403

Delta R.T. 0.006 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

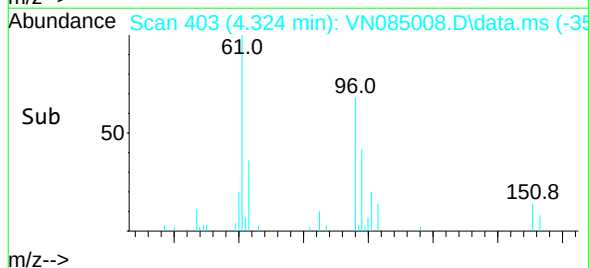
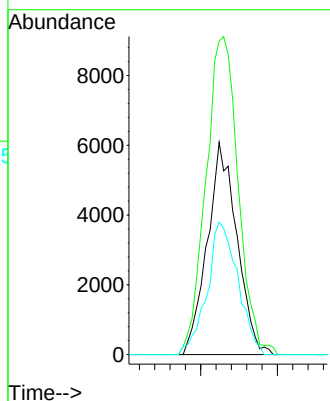
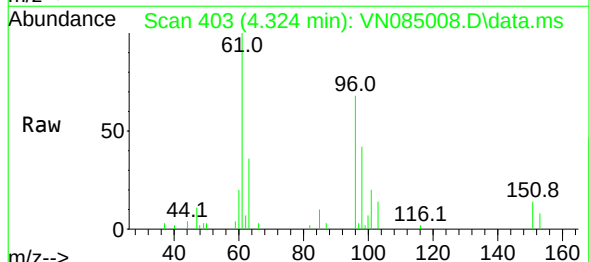
Tgt Ion: 96 Resp: 16330

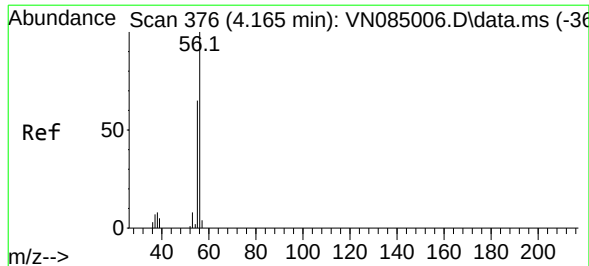
Ion Ratio Lower Upper

96 100

61 147.7 127.8 191.8

98 62.4 49.2 73.8





#13

Acrolein

Concen: 51.710 ug/l

RT: 4.183 min Scan# 376

Delta R.T. 0.018 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 56 Resp: 10601

Ion Ratio Lower Upper

56 100

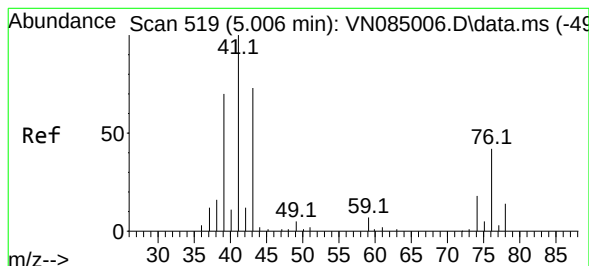
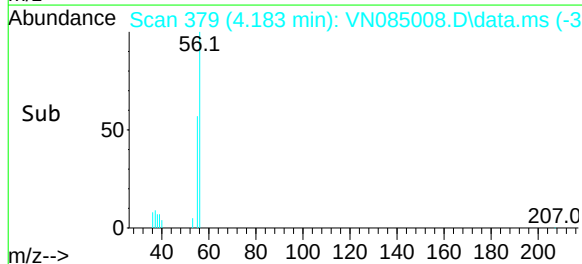
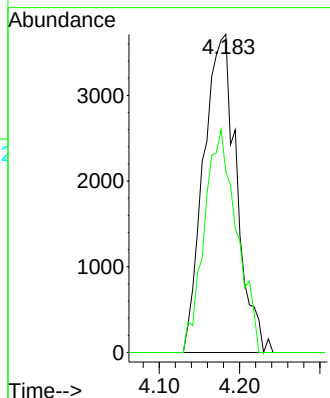
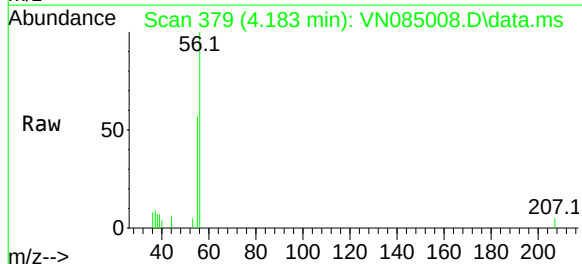
55 68.7 54.5 81.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#14

Allyl chloride

Concen: 9.697 ug/l

RT: 5.006 min Scan# 519

Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

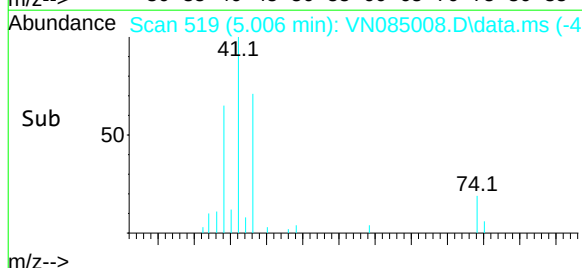
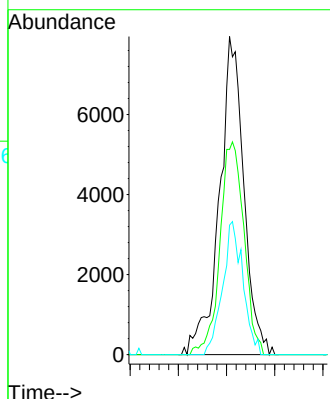
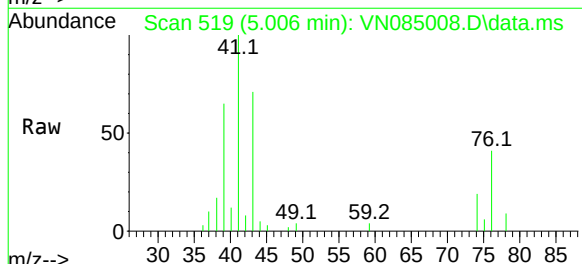
Tgt Ion: 41 Resp: 28006

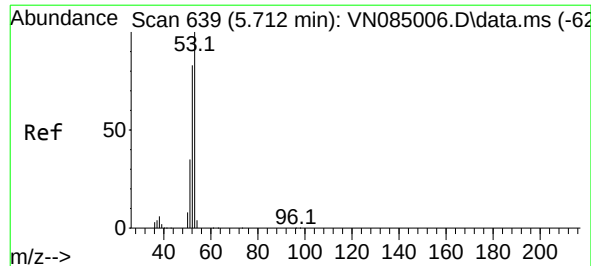
Ion Ratio Lower Upper

41 100

39 65.6 53.8 80.8

76 34.7 29.3 43.9





#15

Acrylonitrile

Concen: 46.525 ug/l

RT: 5.718 min Scan# 64

Delta R.T. 0.006 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Tgt Ion: 53 Resp: 40469

Ion Ratio Lower Upper

53 100

52 84.5 65.5 98.3

51 35.0 28.4 42.6

Instrument :

MSVOA_N

ClientSampleId :

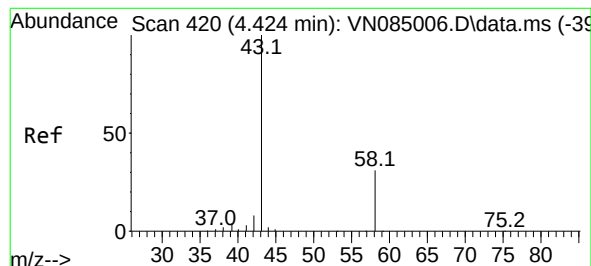
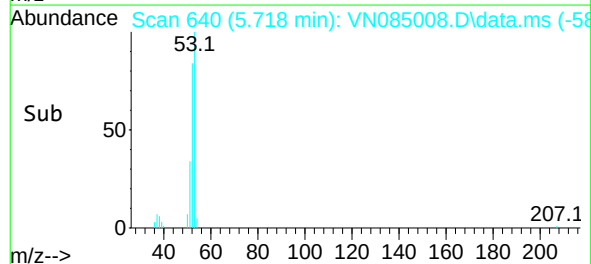
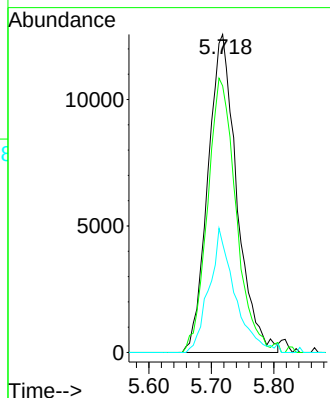
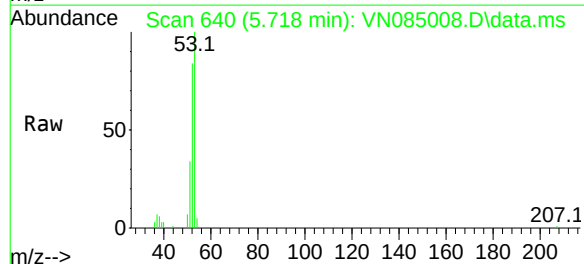
VSTDICC010

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#16

Acetone

Concen: 48.900 ug/l

RT: 4.430 min Scan# 421

Delta R.T. 0.006 min

Lab File: VN085008.D

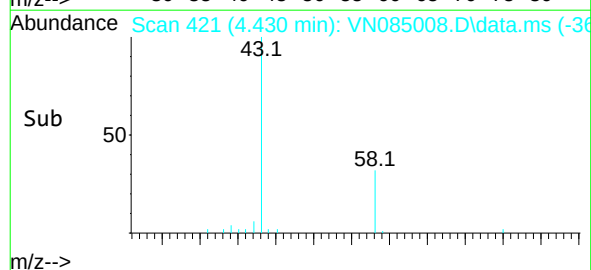
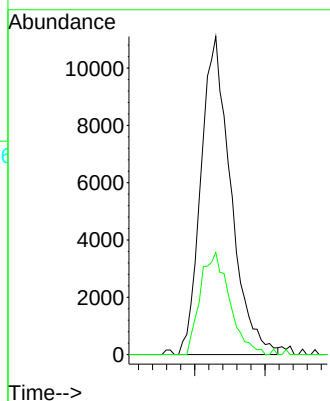
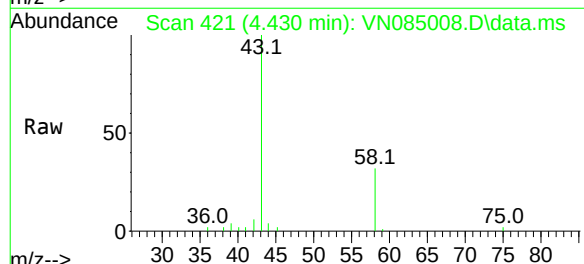
Acq: 22 Nov 2024 12:34

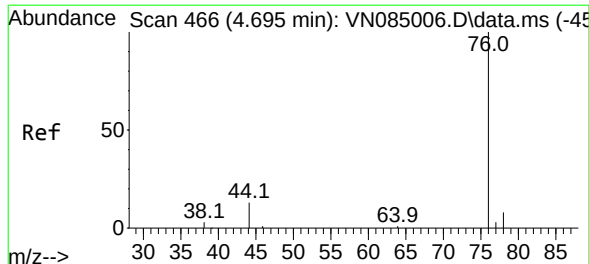
Tgt Ion: 43 Resp: 32743

Ion Ratio Lower Upper

43 100

58 32.1 25.4 38.2





#17

Carbon Disulfide

Concen: 9.331 ug/l

RT: 4.700 min Scan# 466

Delta R.T. 0.006 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 76 Resp: 47181

Ion Ratio Lower Upper

76 100

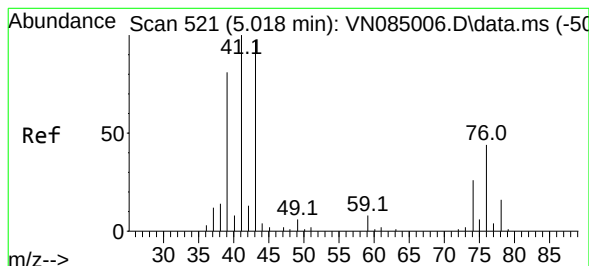
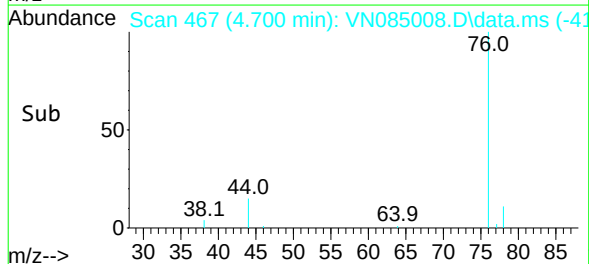
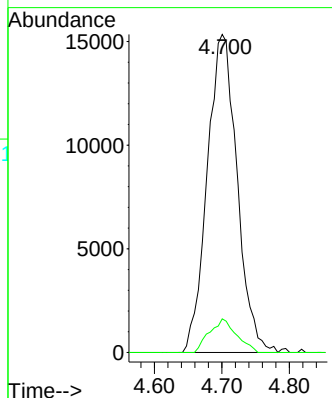
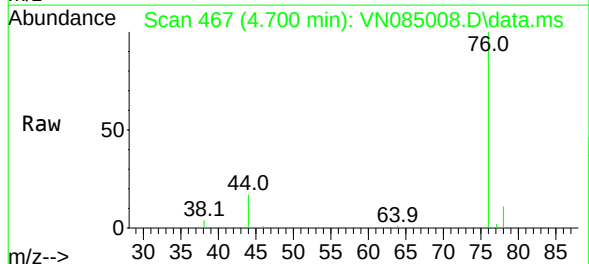
78 10.6 6.5 9.7#

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#18

Methyl Acetate

Concen: 9.856 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN085008.D

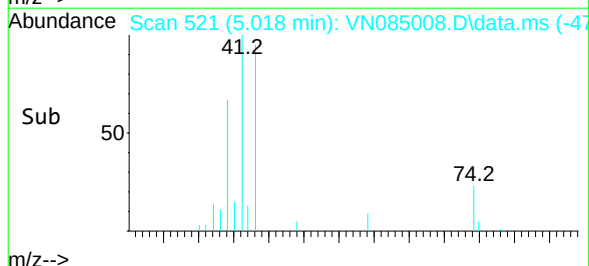
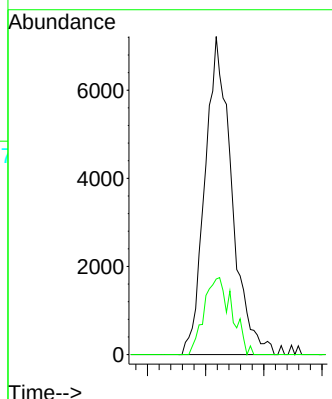
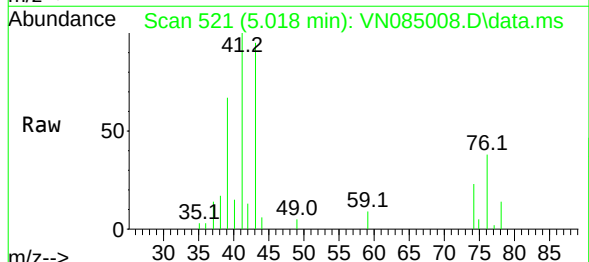
Acq: 22 Nov 2024 12:34

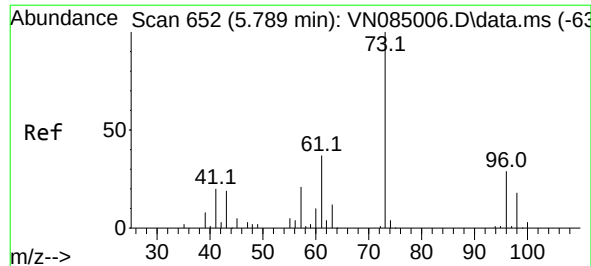
Tgt Ion: 43 Resp: 23065

Ion Ratio Lower Upper

43 100

74 25.0 20.1 30.1





#19

Methyl tert-butyl Ether

Concen: 9.589 ug/l

RT: 5.795 min Scan# 65

Delta R.T. 0.006 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 73 Resp: 53672

Ion Ratio Lower Upper

73 100

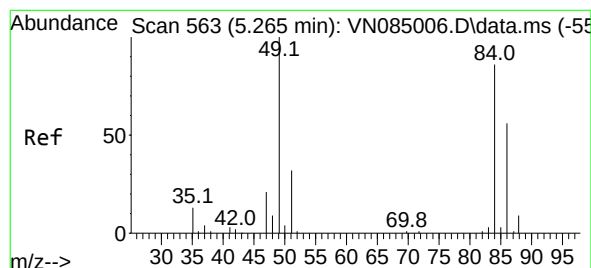
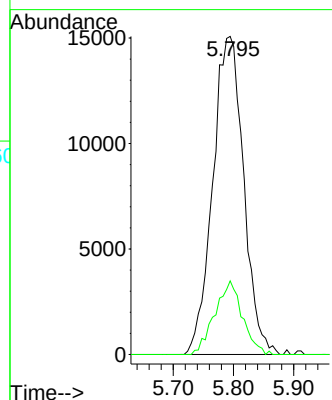
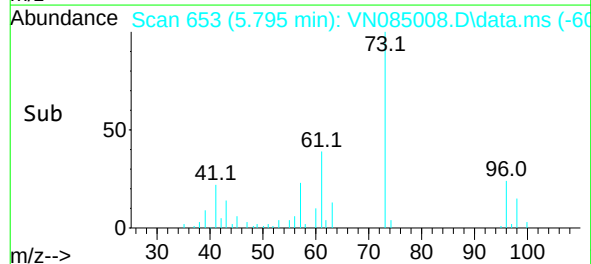
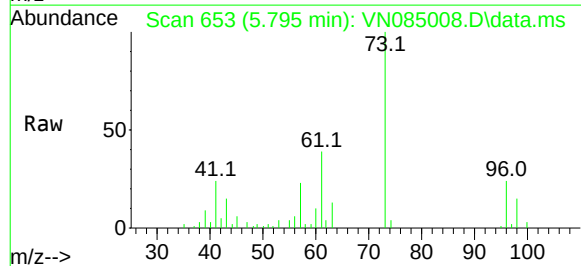
57 23.1 17.0 25.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#20

Methylene Chloride

Concen: 9.632 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.006 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Tgt Ion: 84 Resp: 19680

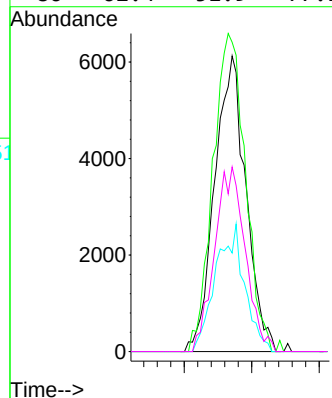
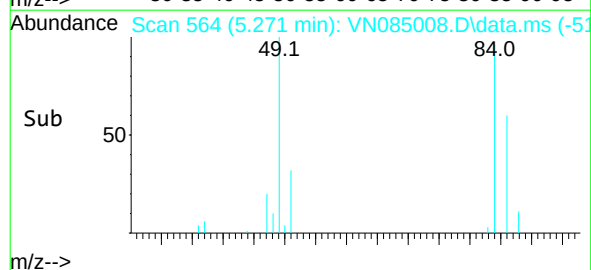
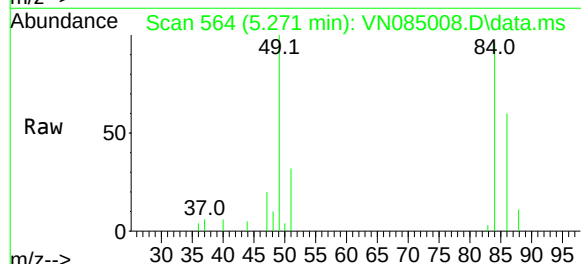
Ion Ratio Lower Upper

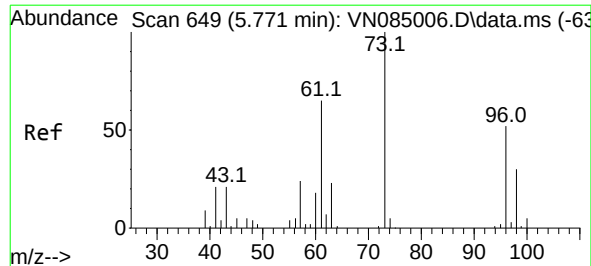
84 100

49 104.6 92.7 139.1

51 33.3 29.4 44.2

86 62.4 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 9.296 ug/l

RT: 5.777 min Scan# 65

Delta R.T. 0.006 min

Lab File: VN085008.D

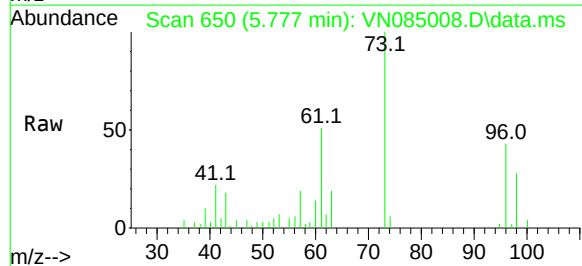
Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010



Tgt Ion: 96 Resp: 16759

Ion Ratio Lower Upper

96 100

61 118.2 100.7 151.1

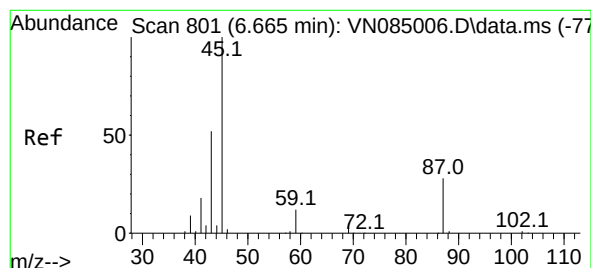
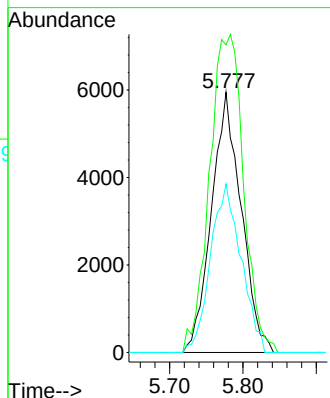
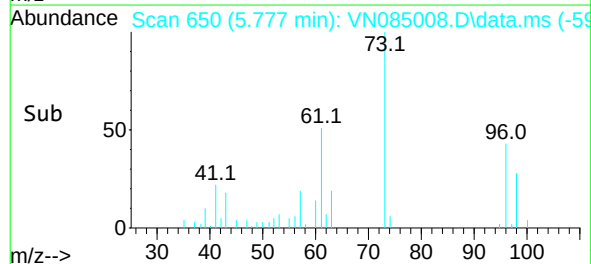
98 64.8 45.8 68.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#22

Diisopropyl ether

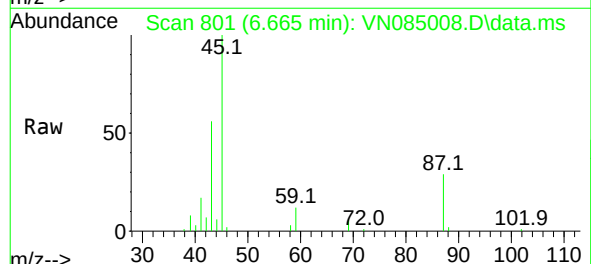
Concen: 9.716 ug/l

RT: 6.665 min Scan# 801

Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34



Tgt Ion: 45 Resp: 56475

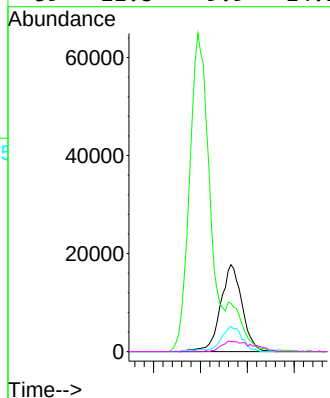
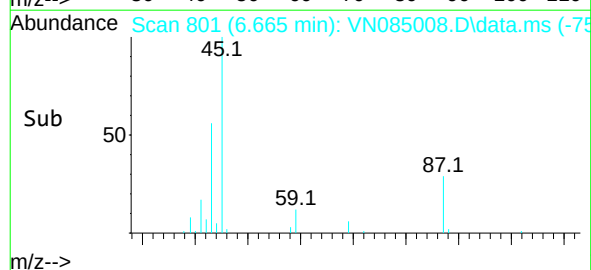
Ion Ratio Lower Upper

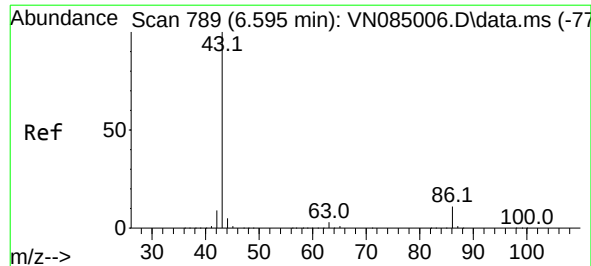
45 100

43 53.8 42.7 64.1

87 29.0 22.6 34.0

59 11.8 9.9 14.9





#23

Vinyl Acetate

Concen: 47.962 ug/l

RT: 6.594 min Scan# 789

Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 43 Resp: 192336

Ion Ratio Lower Upper

43 100

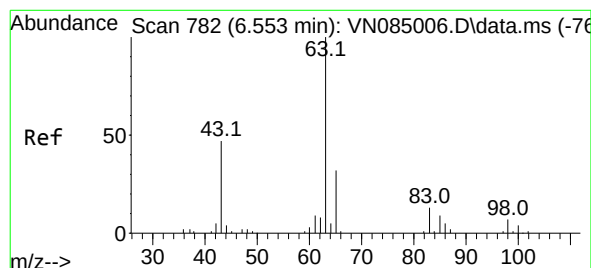
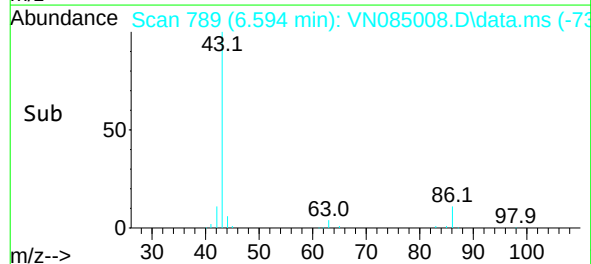
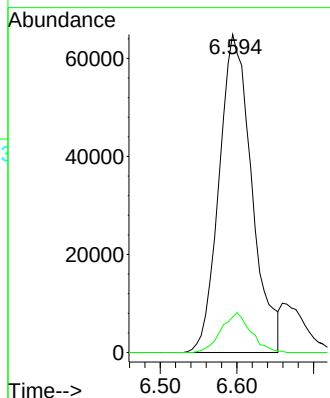
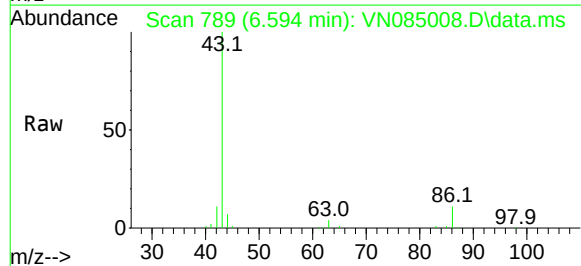
86 11.2 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#24

1,1-Dichloroethane

Concen: 9.588 ug/l

RT: 6.559 min Scan# 783

Delta R.T. 0.006 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

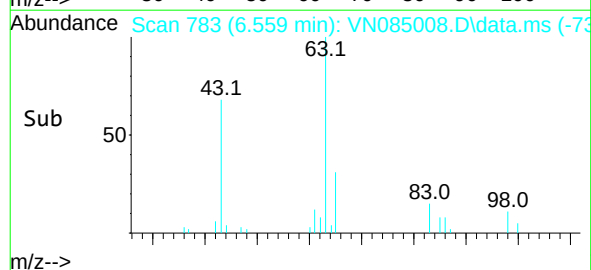
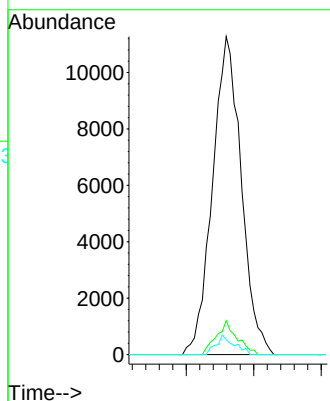
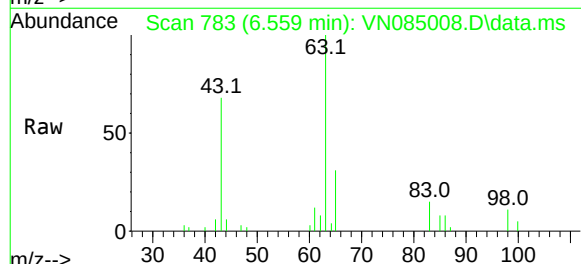
Tgt Ion: 63 Resp: 33350

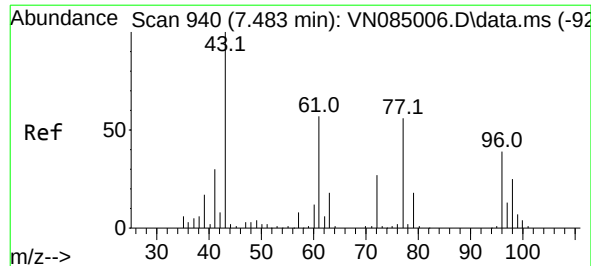
Ion Ratio Lower Upper

63 100

98 10.7 3.3 9.8#

100 4.7 2.2 6.6





#25

2-Butanone

Concen: 46.790 ug/l

RT: 7.477 min Scan# 939

Delta R.T. -0.006 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 43 Resp: 51223

Ion Ratio Lower Upper

43 100

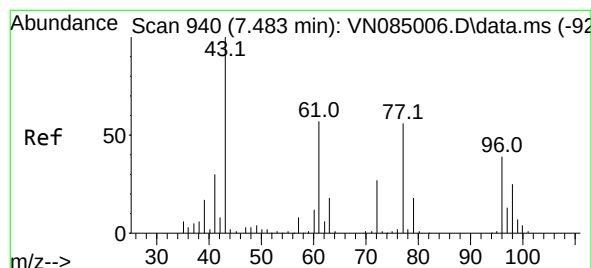
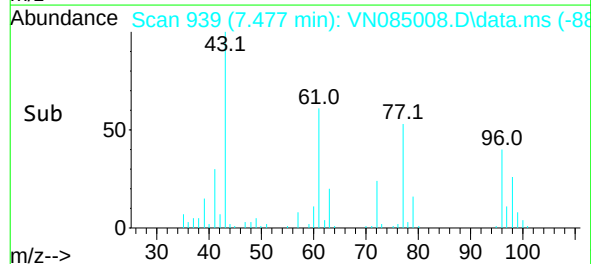
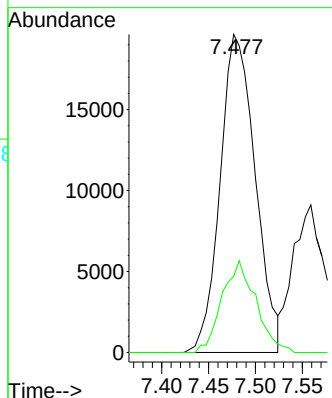
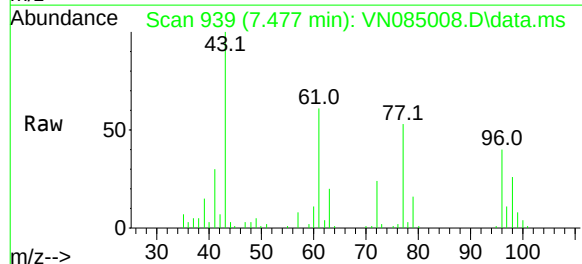
72 24.0 21.4 32.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#26

2,2-Dichloropropane

Concen: 9.388 ug/l

RT: 7.477 min Scan# 939

Delta R.T. -0.006 min

Lab File: VN085008.D

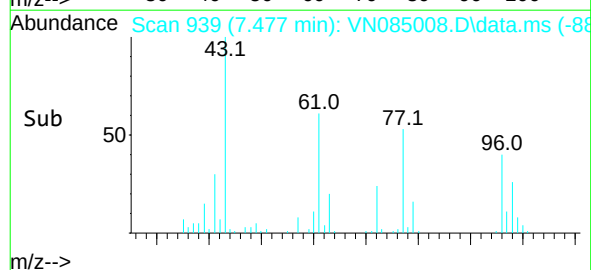
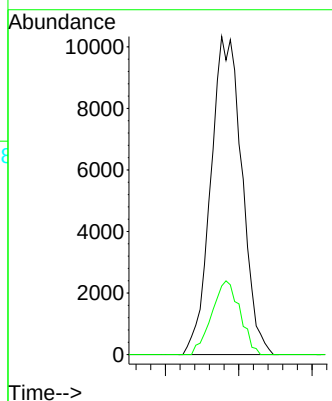
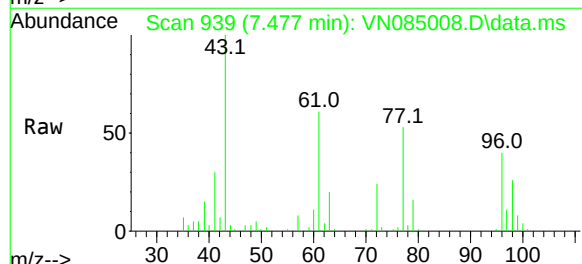
Acq: 22 Nov 2024 12:34

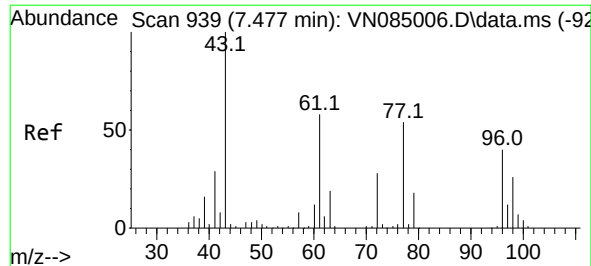
Tgt Ion: 77 Resp: 30494

Ion Ratio Lower Upper

77 100

97 21.0 10.9 32.7





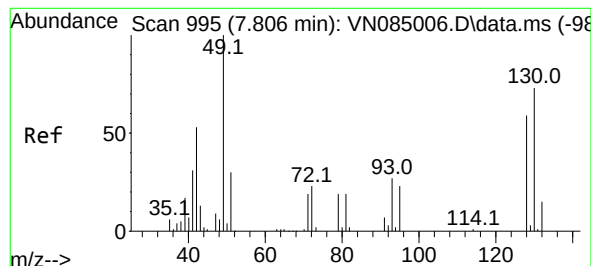
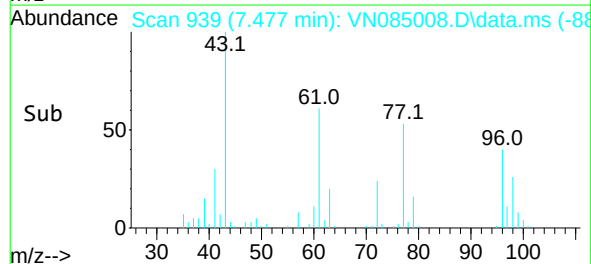
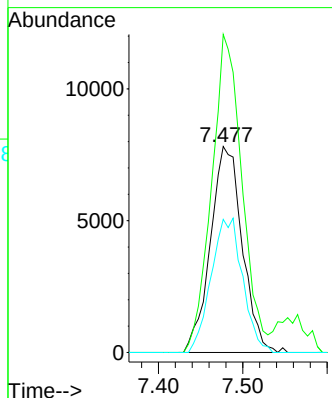
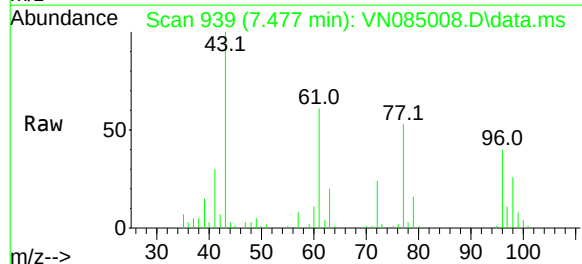
#27
cis-1,2-Dichloroethene
Concen: 9.418 ug/l
RT: 7.477 min Scan# 939
Delta R.T. -0.000 min
Lab File: VN085008.D
Acq: 22 Nov 2024 12:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 96 Resp: 20469
Ion Ratio Lower Upper
96 100
61 147.4 0.0 291.6
98 64.5 0.0 129.8

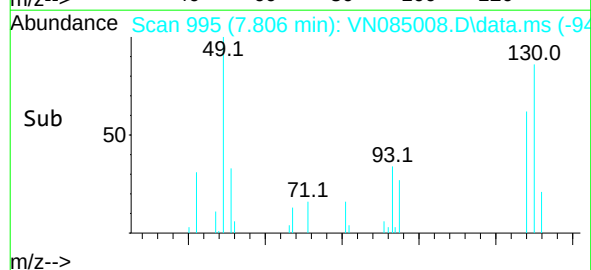
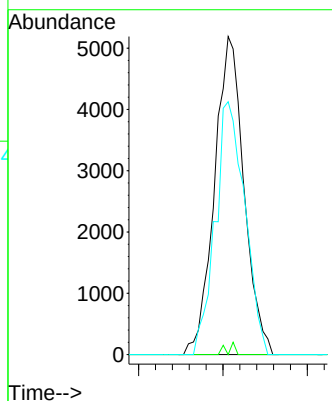
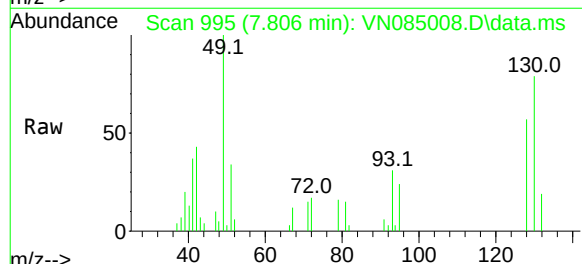
Manual Integrations
APPROVED

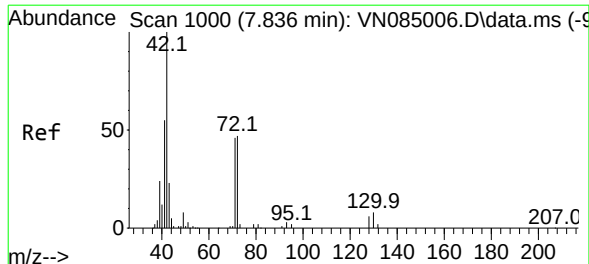
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#28
Bromochloromethane
Concen: 9.591 ug/l
RT: 7.806 min Scan# 995
Delta R.T. -0.000 min
Lab File: VN085008.D
Acq: 22 Nov 2024 12:34

Tgt Ion: 49 Resp: 12594
Ion Ratio Lower Upper
49 100
129 0.4 0.0 4.0
130 79.8 60.6 90.8





#29

Tetrahydrofuran

Concen: 47.294 ug/l

RT: 7.841 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

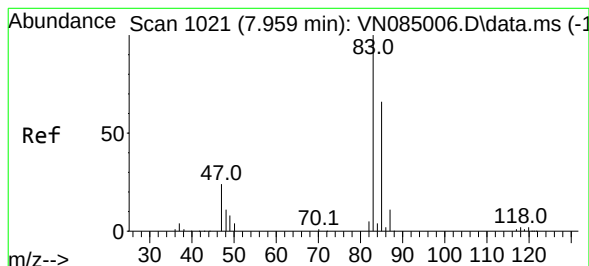
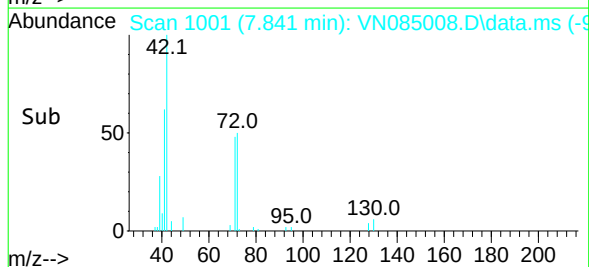
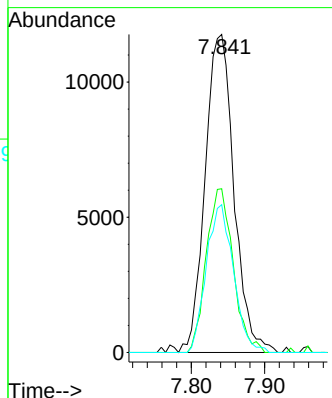
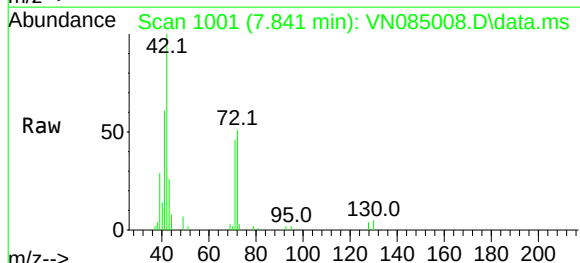
ClientSampleId :

VSTDIC010

Tgt Ion:	42	Resp:	32197
Ion	Ratio	Lower	Upper
42	100		
72	47.9	37.0	55.4
71	43.8	35.0	52.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#30

Chloroform

Concen: 9.365 ug/l

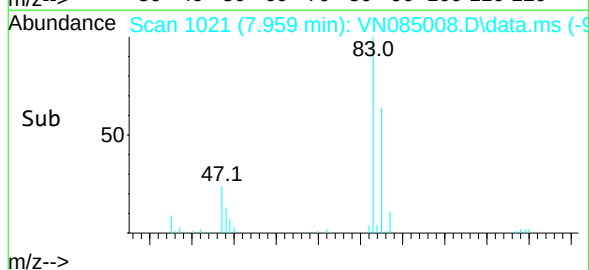
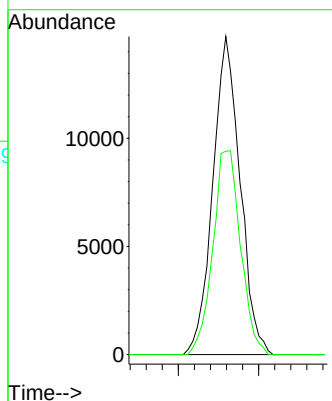
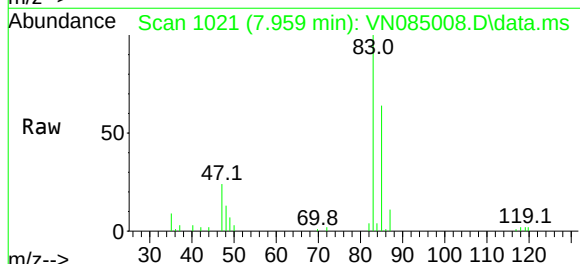
RT: 7.959 min Scan# 1021

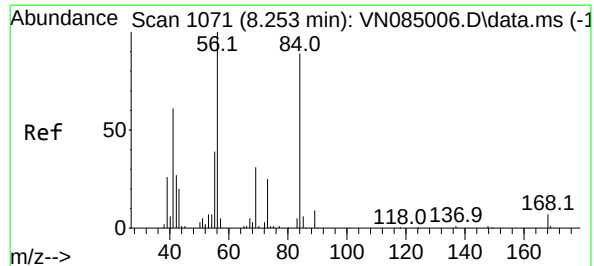
Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Tgt Ion:	83	Resp:	34651
Ion	Ratio	Lower	Upper
83	100		
85	64.0	52.6	78.8





#31

Cyclohexane

Concen: 9.641 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 56 Resp: 29526

Ion Ratio Lower Upper

56 100

69 35.7 24.6 36.8

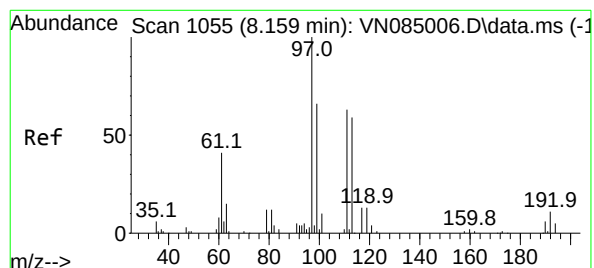
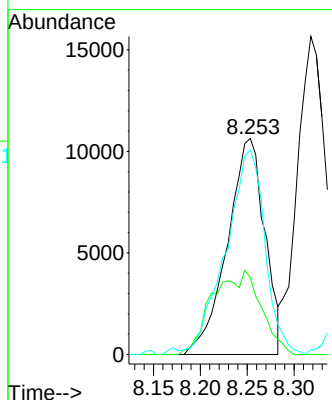
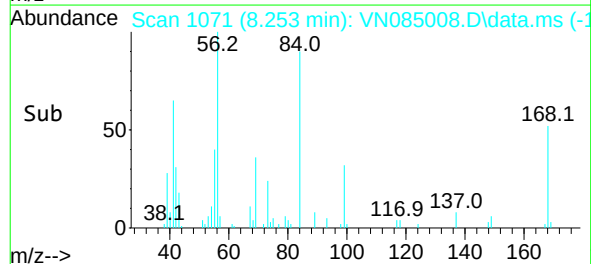
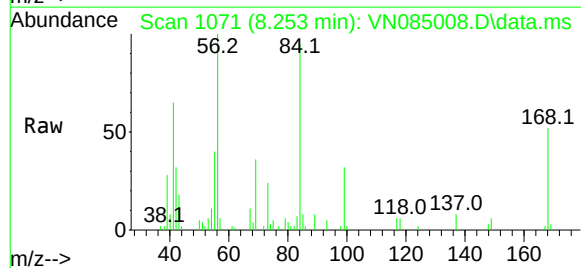
84 92.9 71.4 107.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#32

1,1,1-Trichloroethane

Concen: 9.587 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

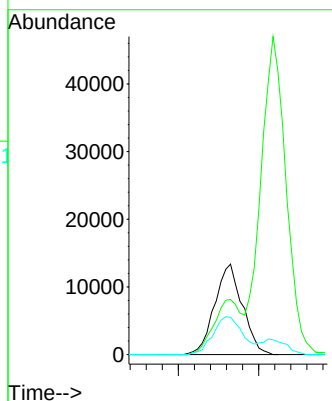
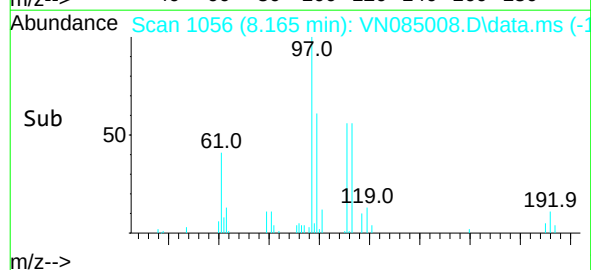
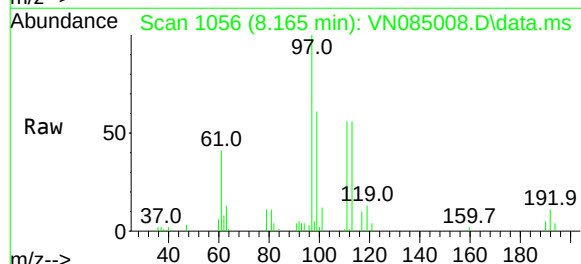
Tgt Ion: 97 Resp: 32054

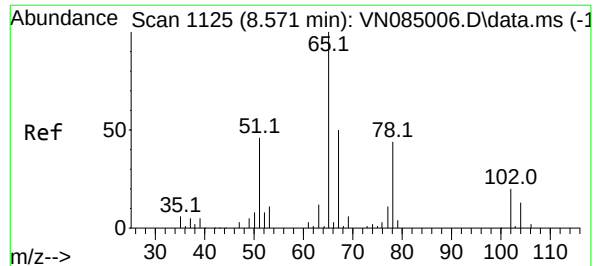
Ion Ratio Lower Upper

97 100

99 61.9 51.0 76.4

61 44.6 36.2 54.2





#33

1,2-Dichloroethane-d4

Concen: 10.323 ug/l

RT: 8.571 min Scan# 1125

Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 65 Resp: 23734

Ion Ratio Lower Upper

65 100

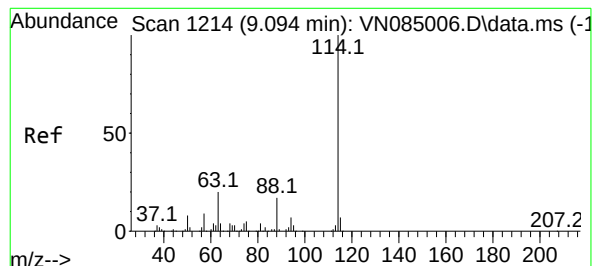
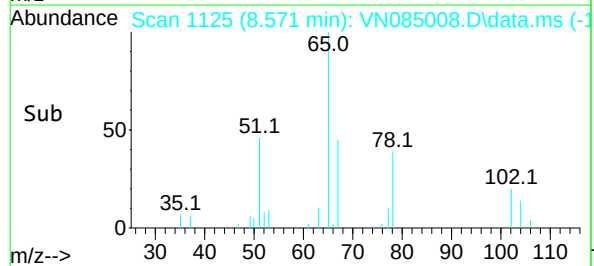
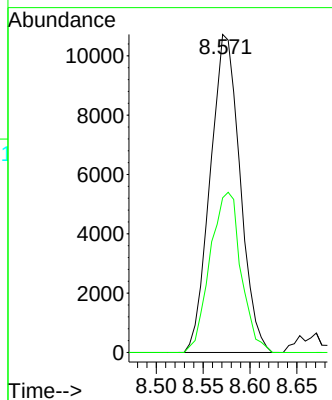
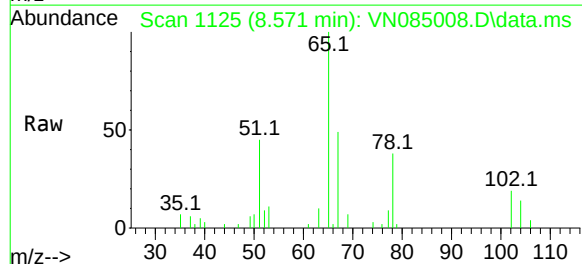
67 52.4 0.0 105.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

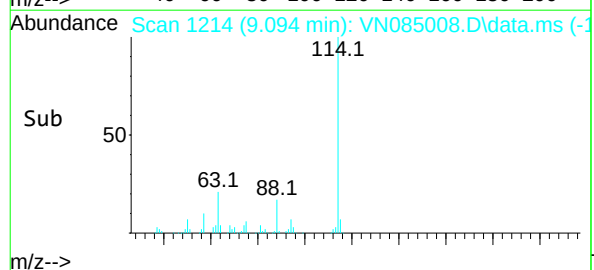
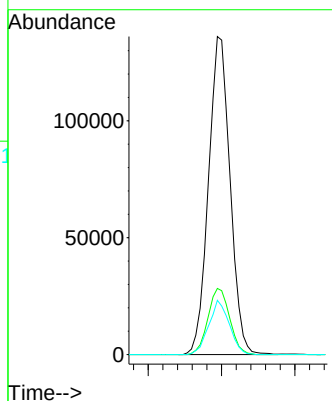
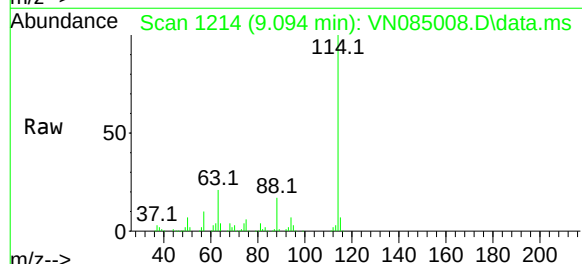
Tgt Ion:114 Resp: 278264

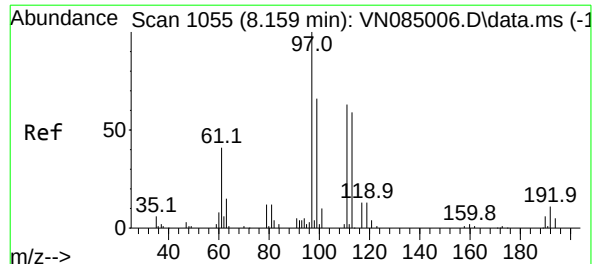
Ion Ratio Lower Upper

114 100

63 20.8 0.0 41.0

88 17.1 0.0 34.8





#35

Dibromofluoromethane

Concen: 9.801 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 113 Resp: 18392

Ion Ratio Lower Upper

113 100

111 104.7 82.0 123.0

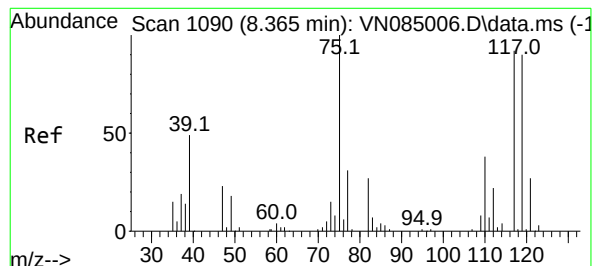
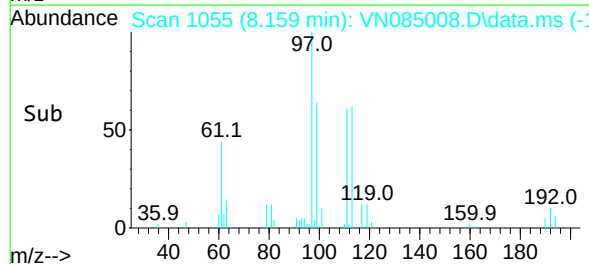
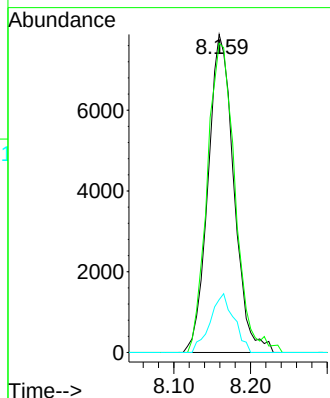
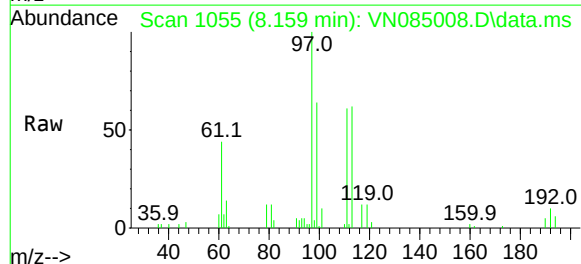
192 17.1 14.8 22.2

Manual Integrations

APPROVED

Reviewed By : John Carlone 11/25/2024

Supervised By : Mahesh Dadoda 11/25/2024



#36

1,1-Dichloropropene

Concen: 9.130 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

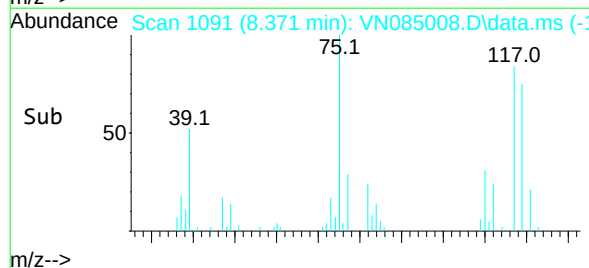
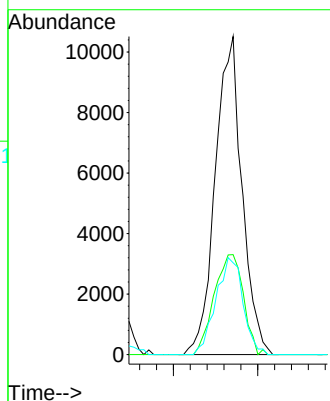
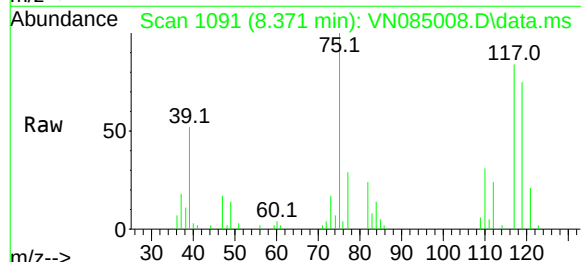
Tgt Ion: 75 Resp: 23205

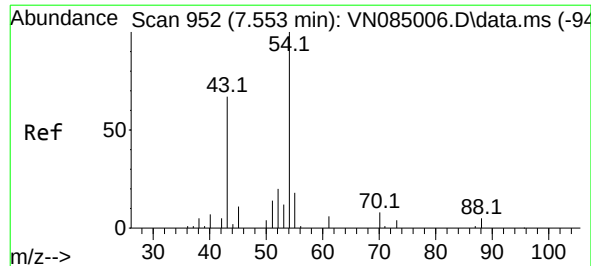
Ion Ratio Lower Upper

75 100

110 34.2 17.2 51.6

77 30.9 24.2 36.4





#37

Ethyl Acetate

Concen: 9.732 ug/l

RT: 7.559 min Scan# 952

Delta R.T. 0.006 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

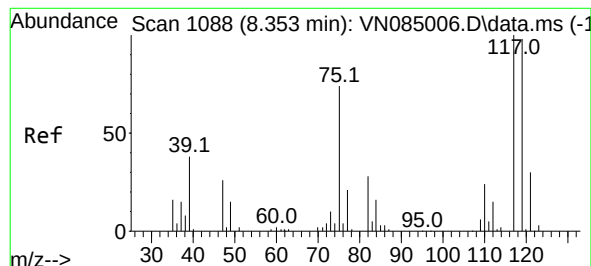
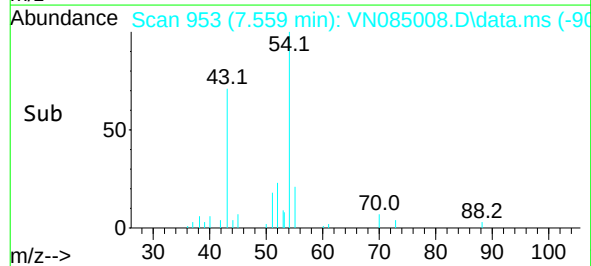
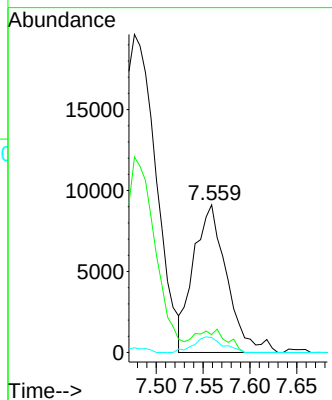
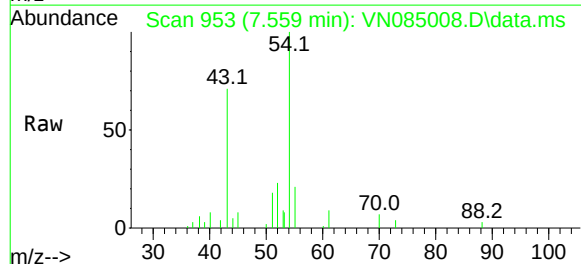
ClientSampleId :

VSTDIC010

Tgt Ion:	43	Resp:	22487
Ion	Ratio	Lower	Upper
43	100		
61	14.9	11.7	17.5
70	9.2	9.3	13.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#38

Carbon Tetrachloride

Concen: 9.186 ug/l

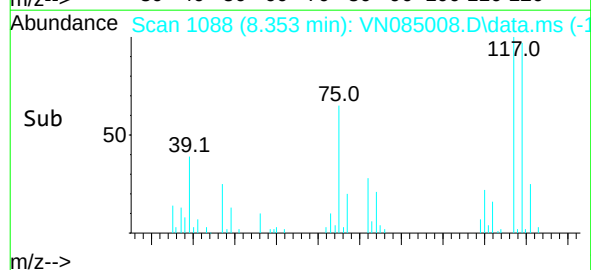
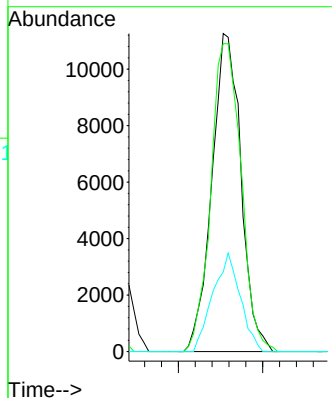
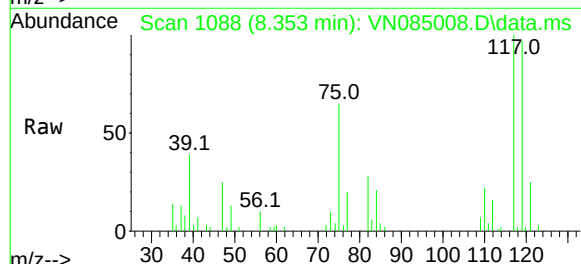
RT: 8.353 min Scan# 1088

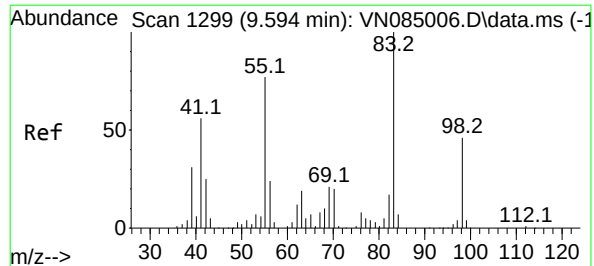
Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Tgt Ion:	117	Resp:	26952
Ion	Ratio	Lower	Upper
117	100		
119	96.8	78.6	117.8
121	25.0	24.2	36.2





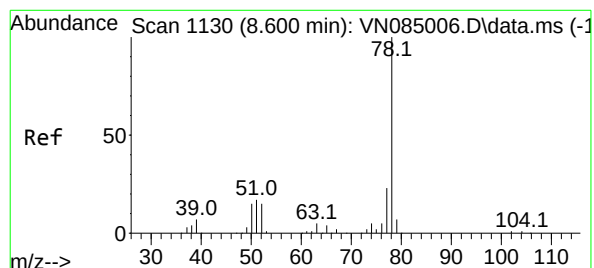
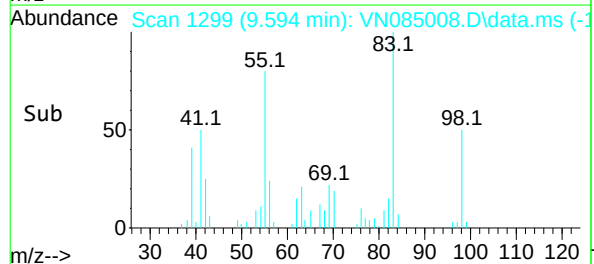
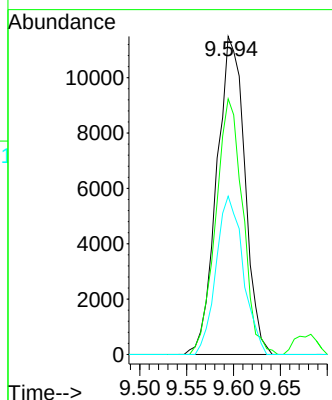
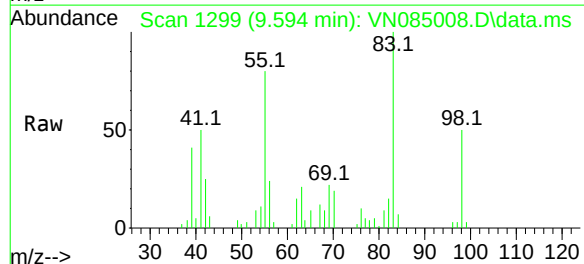
#39
Methylcyclohexane
Concen: 9.058 ug/l
RT: 9.594 min Scan# 1299
Delta R.T. -0.000 min
Lab File: VN085008.D
Acq: 22 Nov 2024 12:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 83 Resp: 23924
Ion Ratio Lower Upper
83 100
55 80.4 61.8 92.6
98 49.8 37.0 55.6

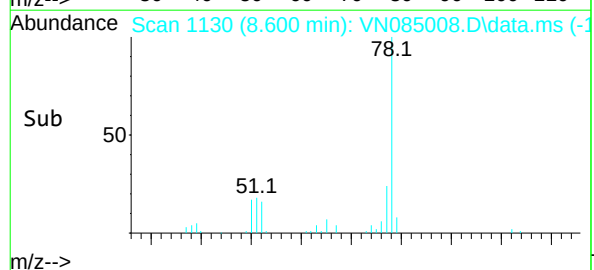
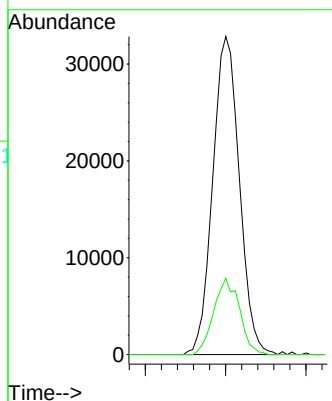
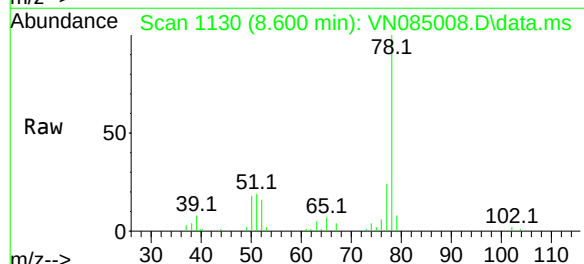
Manual Integrations
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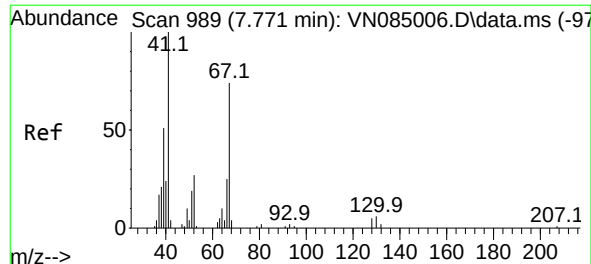
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#40
Benzene
Concen: 9.404 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN085008.D
Acq: 22 Nov 2024 12:34

Tgt Ion: 78 Resp: 75597
Ion Ratio Lower Upper
78 100
77 24.0 18.5 27.7





#41

Methacrylonitrile

Concen: 9.705 ug/l

RT: 7.771 min Scan# 989

Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 41 Resp: 12417

Ion Ratio Lower Upper

41 100

39 53.3 42.6 63.8

67 74.5 59.9 89.9

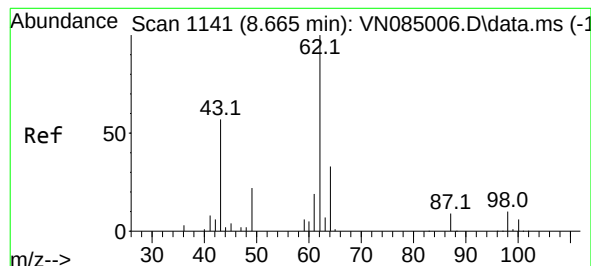
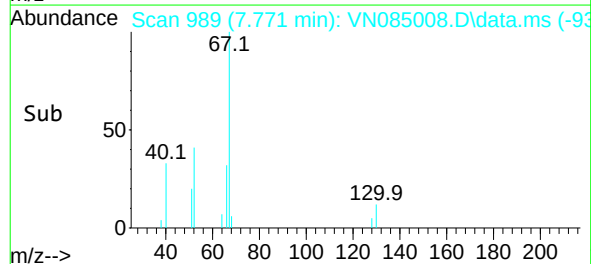
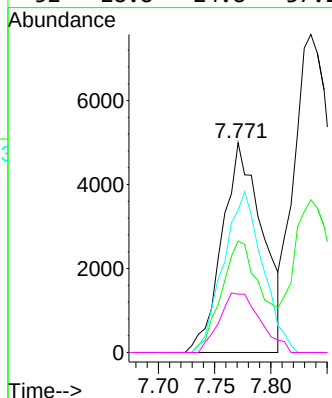
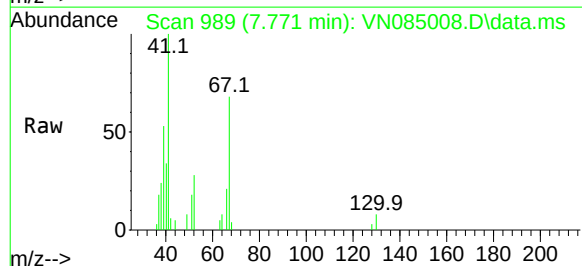
52 28.8 24.8 37.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#42

1,2-Dichloroethane

Concen: 9.152 ug/l

RT: 8.659 min Scan# 1140

Delta R.T. -0.006 min

Lab File: VN085008.D

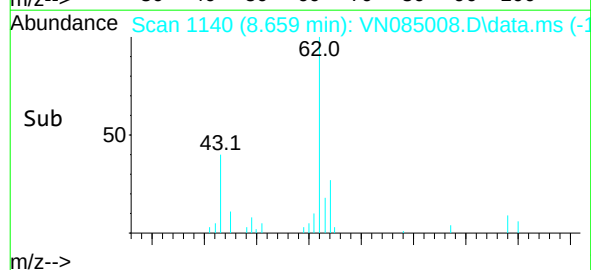
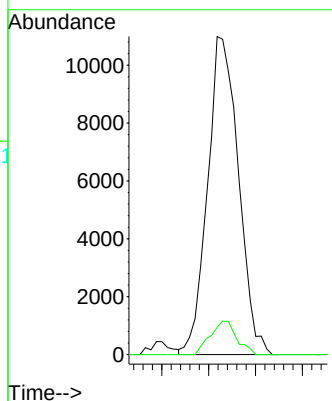
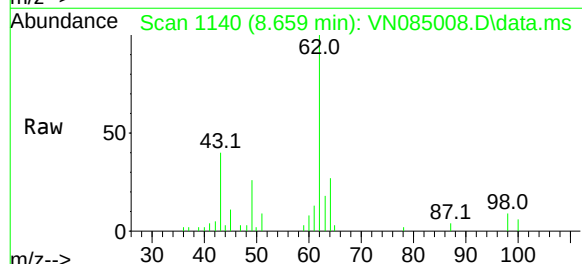
Acq: 22 Nov 2024 12:34

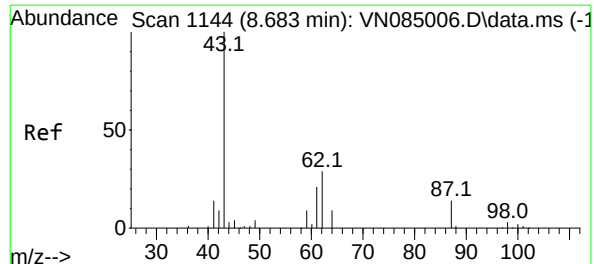
Tgt Ion: 62 Resp: 25169

Ion Ratio Lower Upper

62 100

98 9.0 0.0 18.2





#43

Isopropyl Acetate

Concen: 9.108 ug/l

RT: 8.688 min Scan# 1144

Delta R.T. 0.006 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

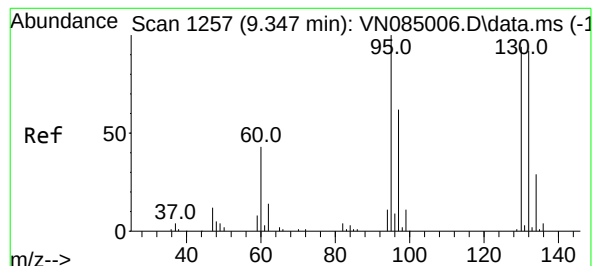
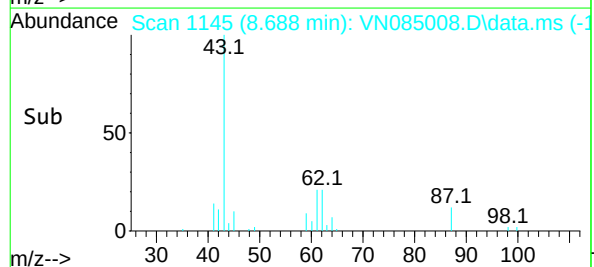
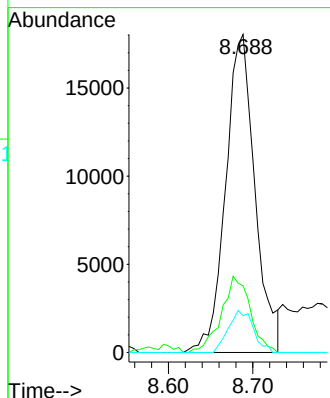
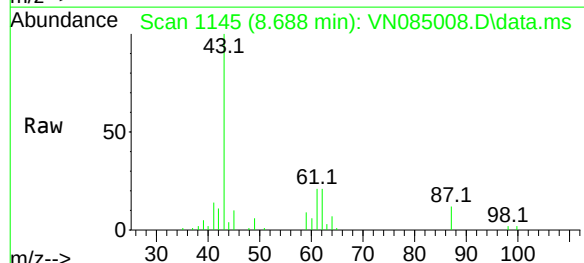
ClientSampleId :

VSTDIC010

Tgt Ion:	43	Resp:	43717
Ion	Ratio	Lower	Upper
43	100		
61	23.5	20.6	30.8
87	11.2	11.0	16.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#44

Trichloroethene

Concen: 9.547 ug/l

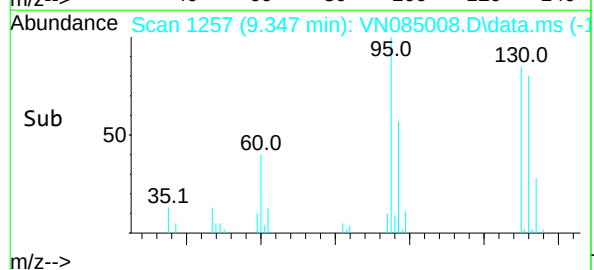
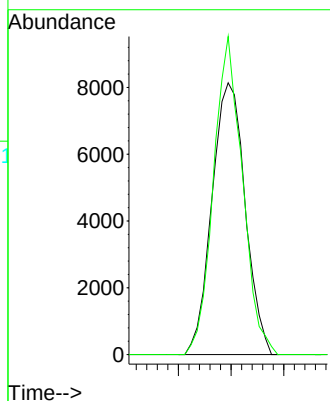
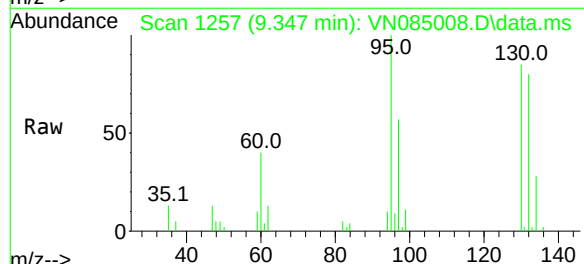
RT: 9.347 min Scan# 1257

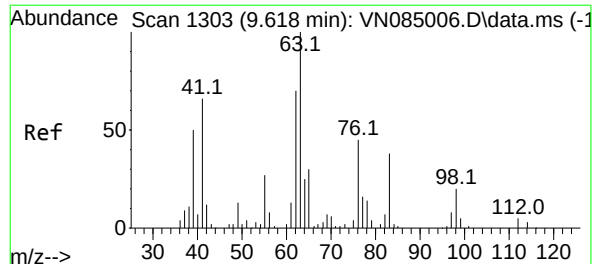
Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Tgt Ion:	130	Resp:	17835
Ion	Ratio	Lower	Upper
130	100		
95	117.0	0.0	213.4





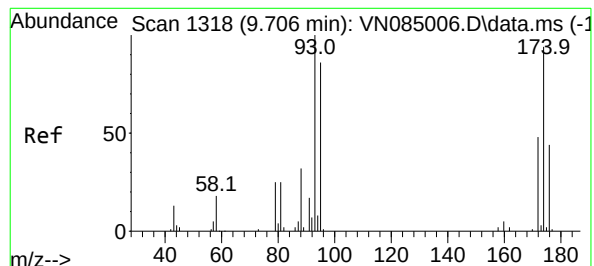
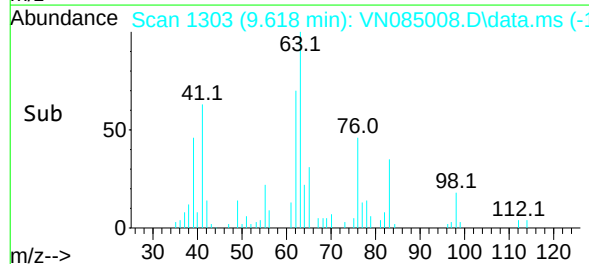
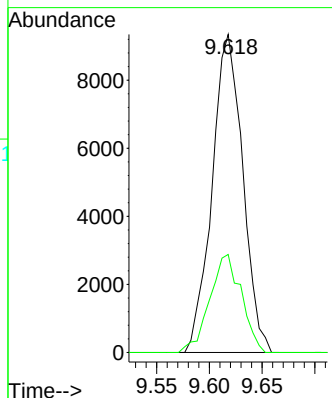
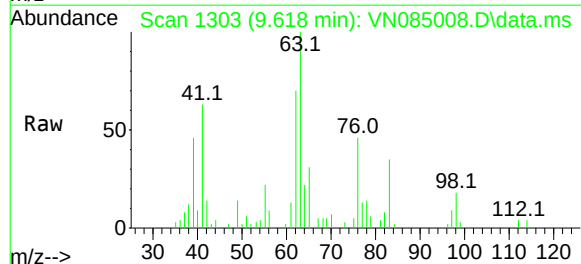
#45
1,2-Dichloropropane
Concen: 9.546 ug/l
RT: 9.618 min Scan# 1303
Delta R.T. -0.000 min
Lab File: VN085008.D
Acq: 22 Nov 2024 12:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 63 Resp: 18902
Ion Ratio Lower Upper
63 100
65 30.8 24.0 36.0

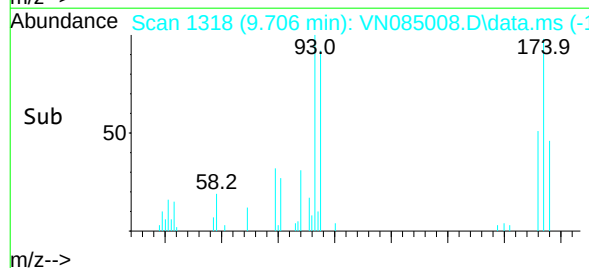
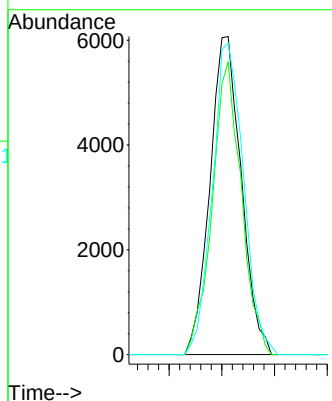
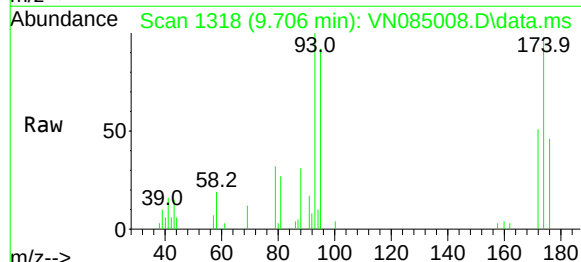
Manual Integrations
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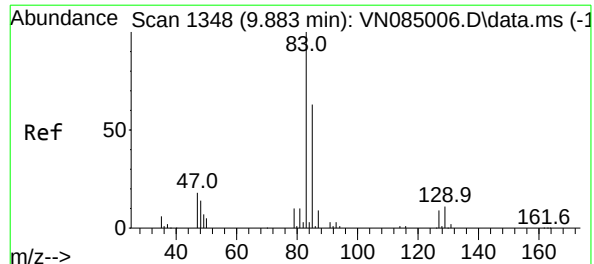
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#46
Dibromomethane
Concen: 9.114 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.000 min
Lab File: VN085008.D
Acq: 22 Nov 2024 12:34

Tgt Ion: 93 Resp: 12540
Ion Ratio Lower Upper
93 100
95 85.5 66.2 99.4
174 97.5 74.9 112.3





#47

Bromodichloromethane

Concen: 9.306 ug/l

RT: 9.888 min Scan# 1348

Delta R.T. 0.006 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

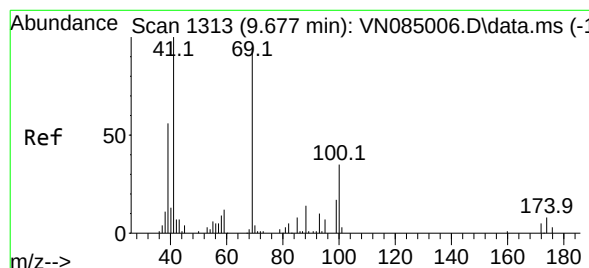
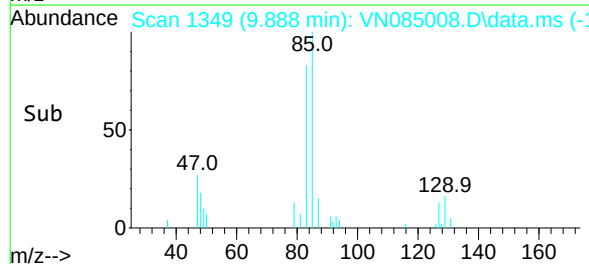
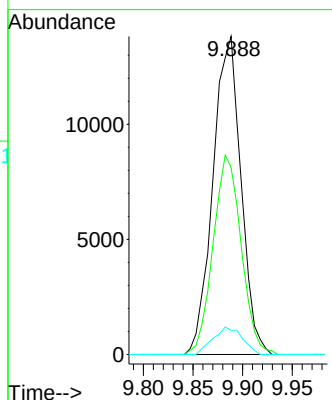
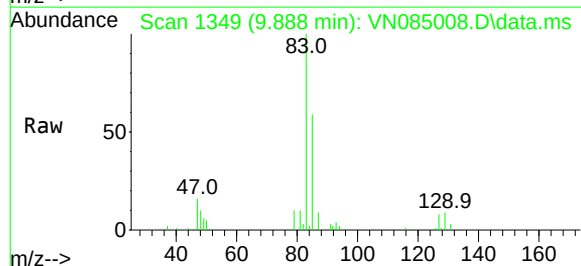
ClientSampleId :

VSTDIC010

Tgt Ion:	83	Resp:	27136
Ion	Ratio	Lower	Upper
83	100		
85	58.8	50.5	75.7
127	7.6	7.1	10.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#48

Methyl methacrylate

Concen: 9.402 ug/l

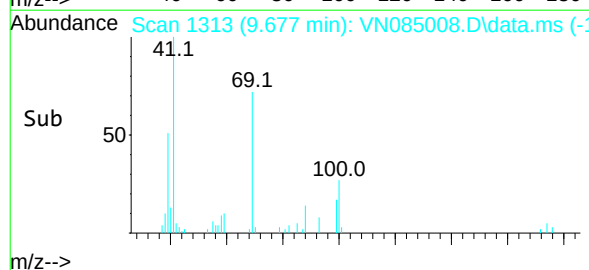
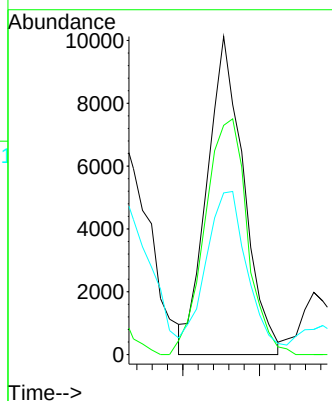
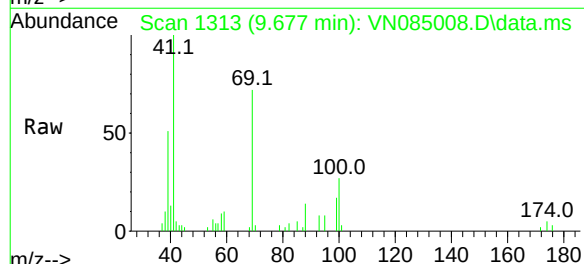
RT: 9.677 min Scan# 1313

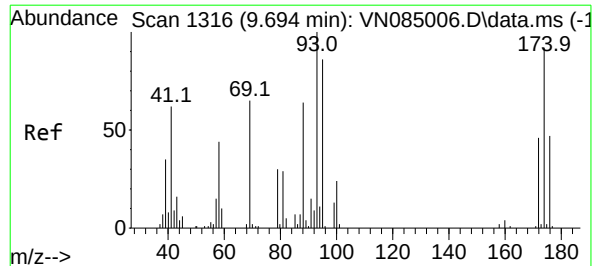
Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Tgt Ion:	41	Resp:	16793
Ion	Ratio	Lower	Upper
41	100		
69	85.7	73.2	109.8
39	59.4	46.2	69.4





#49

1,4-Dioxane

Concen: 205.527 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 88 Resp: 6366

Ion Ratio Lower Upper

88 100

43 0.0 16.7 25.1

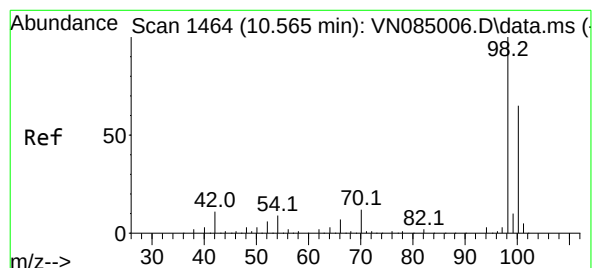
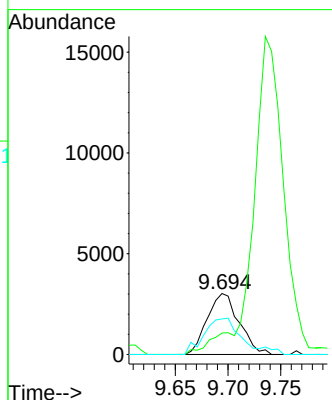
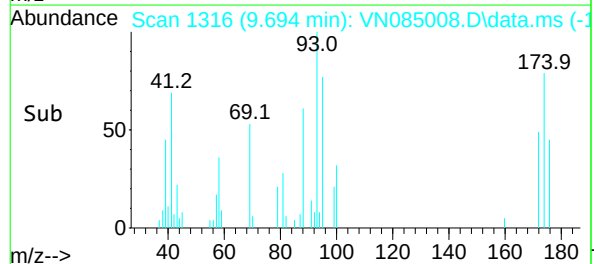
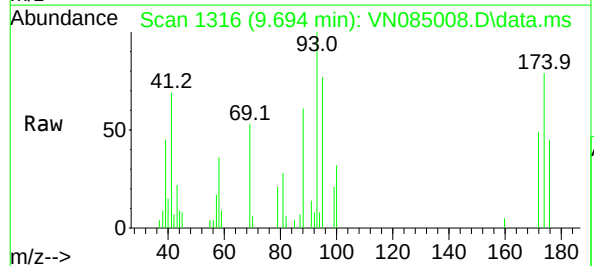
58 70.8 56.5 84.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#50

Toluene-d8

Concen: 9.614 ug/l

RT: 10.559 min Scan# 1463

Delta R.T. -0.006 min

Lab File: VN085008.D

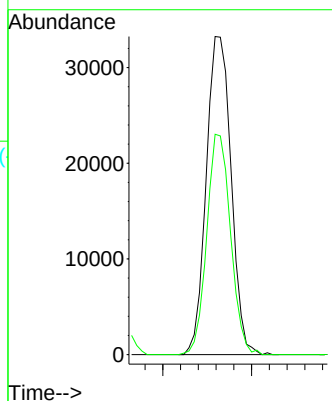
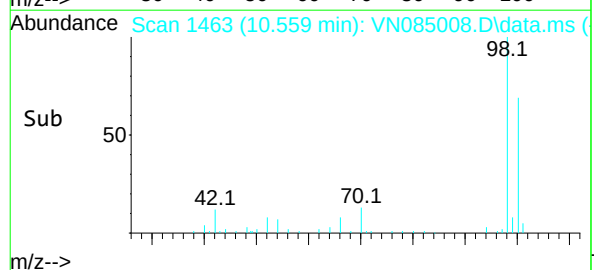
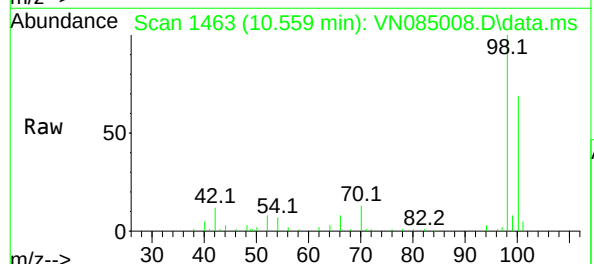
Acq: 22 Nov 2024 12:34

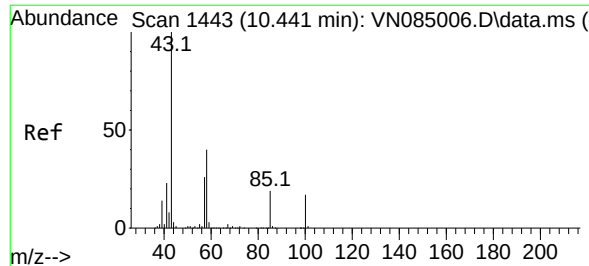
Tgt Ion: 98 Resp: 64656

Ion Ratio Lower Upper

98 100

100 66.4 52.5 78.7





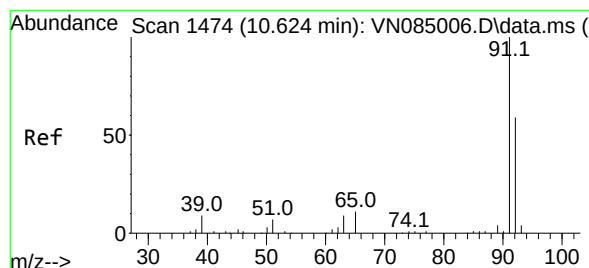
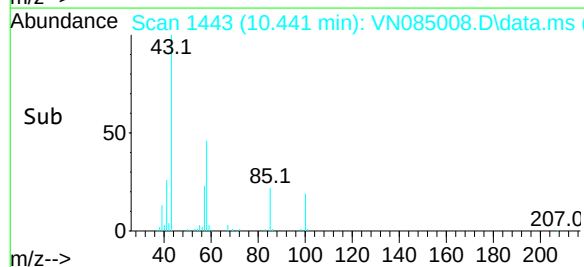
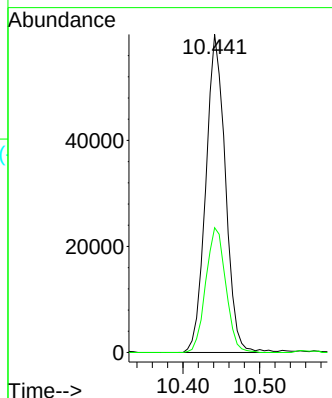
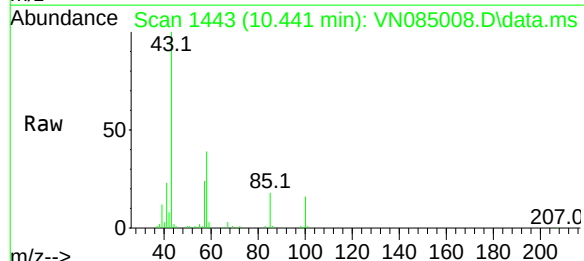
#51
4-Methyl-2-Pentanone
Concen: 48.544 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085008.D
Acq: 22 Nov 2024 12:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 106422
Ion Ratio Lower Upper
43 100
58 40.1 32.1 48.1

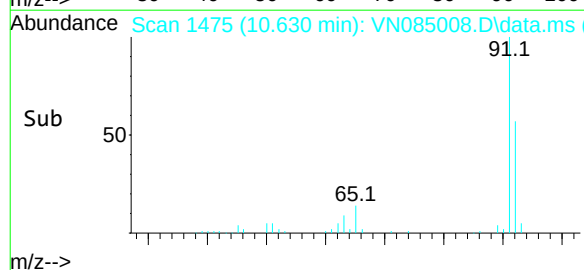
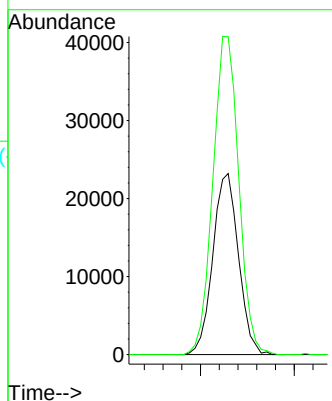
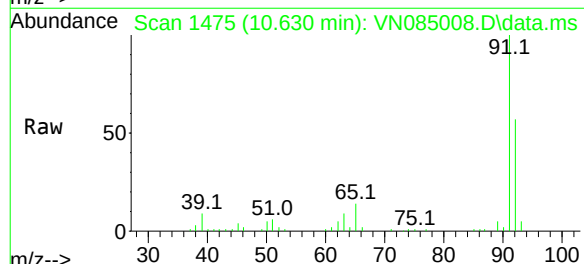
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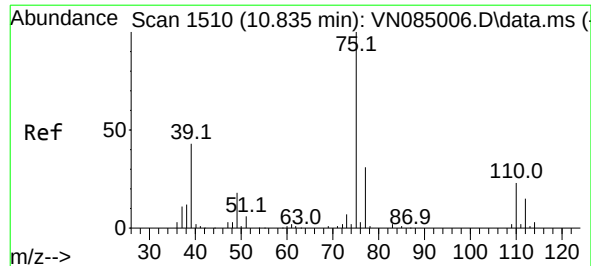
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#52
Toluene
Concen: 9.261 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN085008.D
Acq: 22 Nov 2024 12:34

Tgt Ion: 92 Resp: 44072
Ion Ratio Lower Upper
92 100
91 177.5 136.7 205.1





#53

t-1,3-Dichloropropene

Concen: 9.249 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 75 Resp: 27040

Ion Ratio Lower Upper

75 100

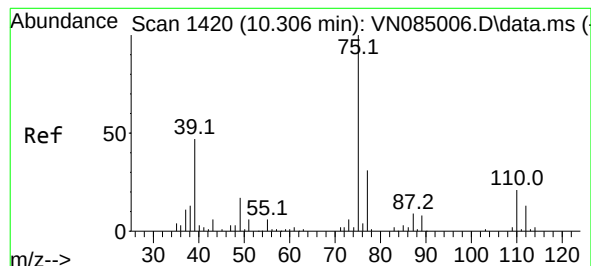
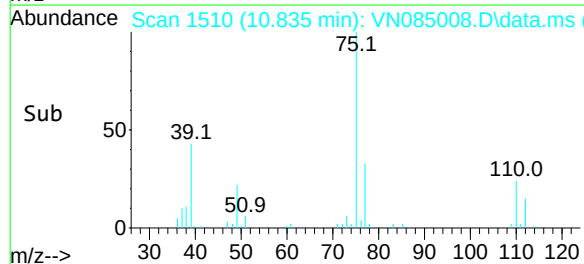
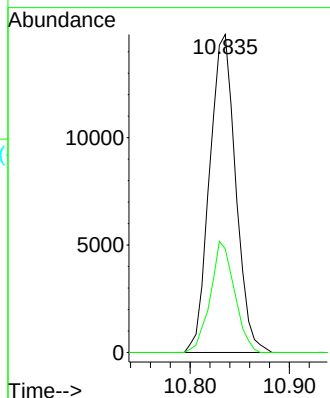
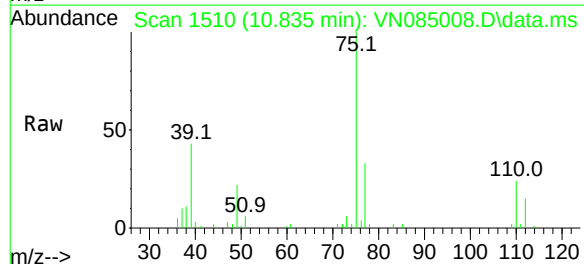
77 32.6 25.0 37.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#54

cis-1,3-Dichloropropene

Concen: 9.087 ug/l

RT: 10.306 min Scan# 1420

Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

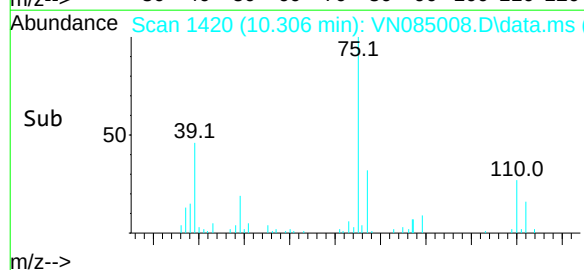
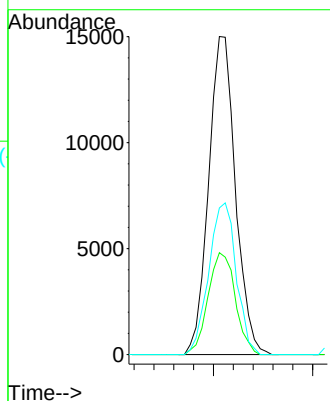
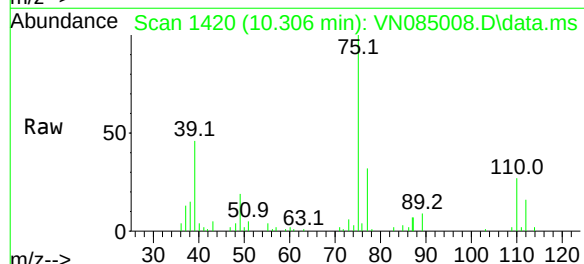
Tgt Ion: 75 Resp: 28183

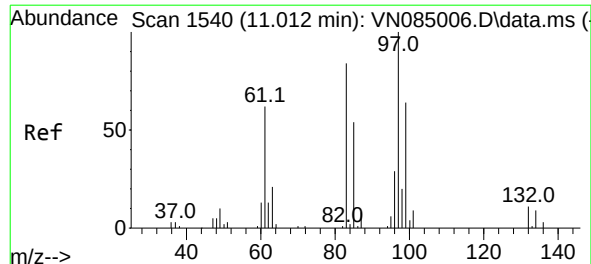
Ion Ratio Lower Upper

75 100

77 32.0 25.0 37.4

39 46.1 37.6 56.4





#55

1,1,2-Trichloroethane

Concen: 9.871 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 97 Resp: 17498

Ion Ratio Lower Upper

97 100

83 86.4 67.4 101.2

85 51.5 43.1 64.7

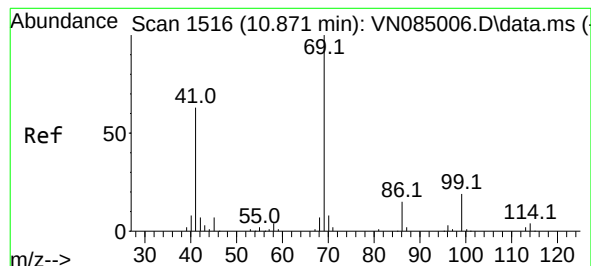
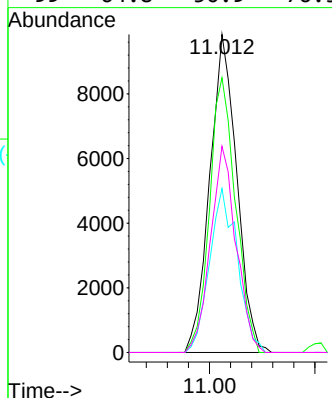
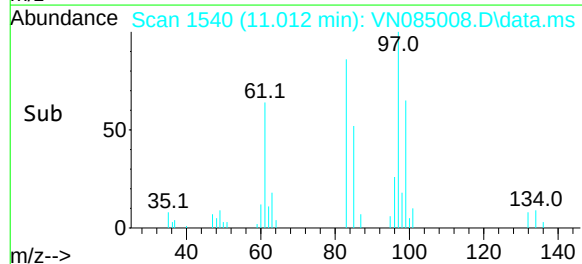
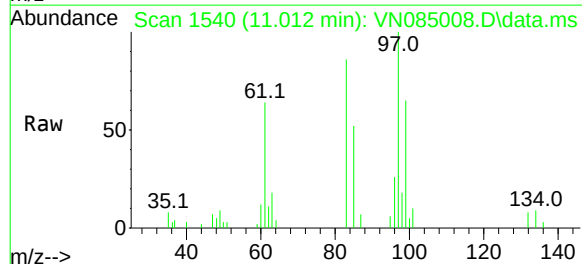
99 64.8 50.9 76.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#56

Ethyl methacrylate

Concen: 9.385 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

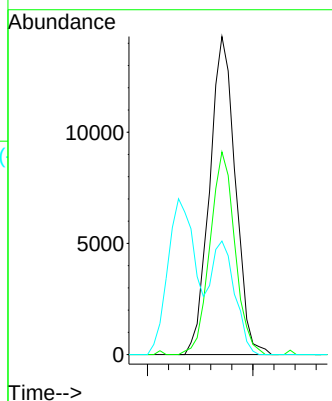
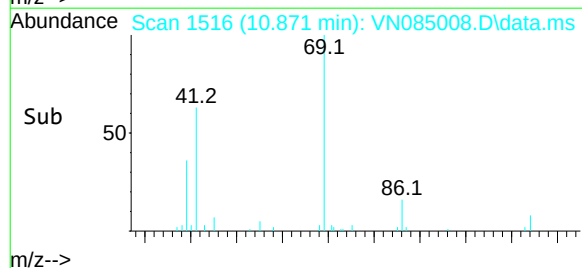
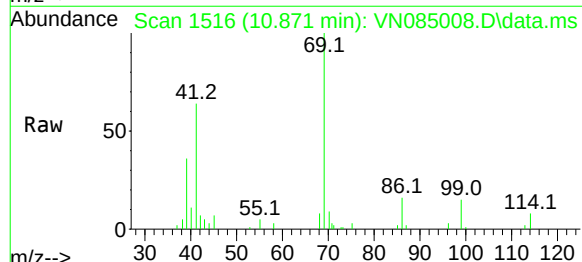
Tgt Ion: 69 Resp: 24309

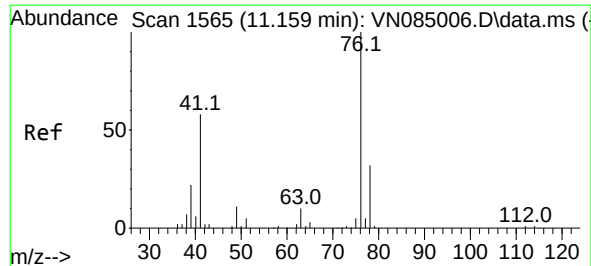
Ion Ratio Lower Upper

69 100

41 61.7 50.0 75.0

39 33.1 27.0 40.6





#57

1,3-Dichloropropane

Concen: 9.378 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 76 Resp: 29257

Ion Ratio Lower Upper

76 100

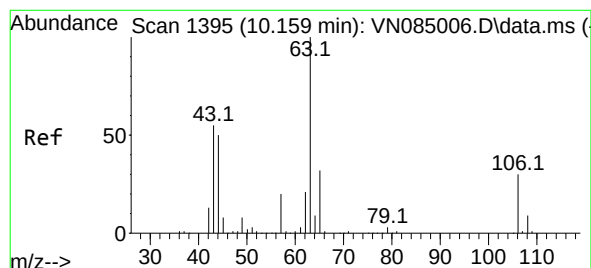
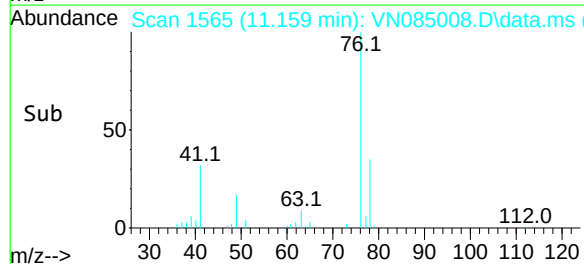
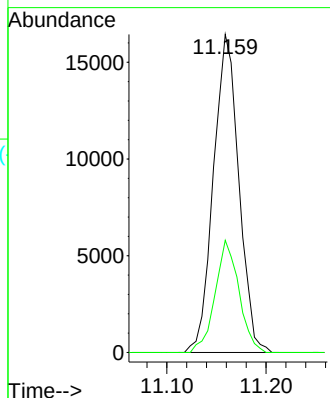
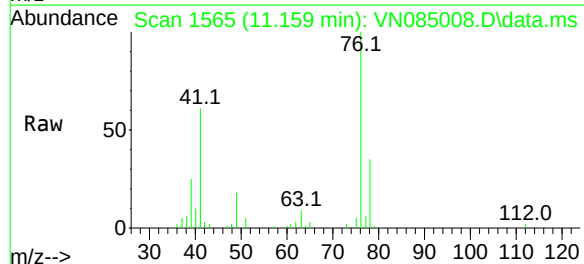
78 33.2 26.1 39.1

Manual Integrations

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Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#58

2-Chloroethyl Vinyl ether

Concen: 48.207 ug/l

RT: 10.153 min Scan# 1394

Delta R.T. -0.006 min

Lab File: VN085008.D

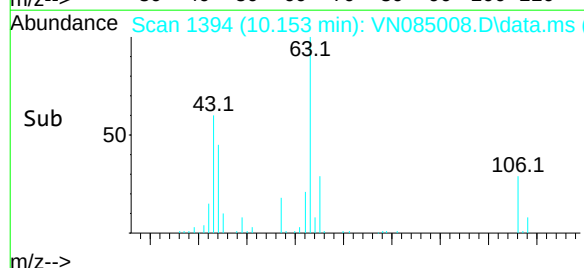
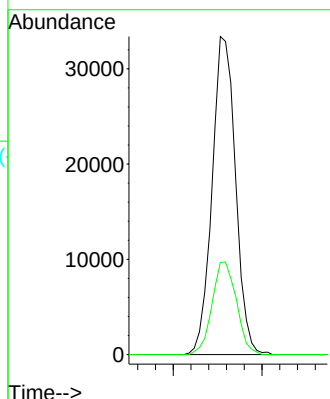
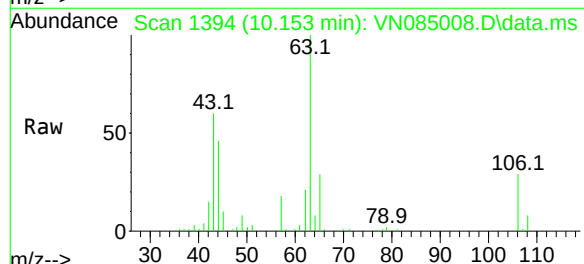
Acq: 22 Nov 2024 12:34

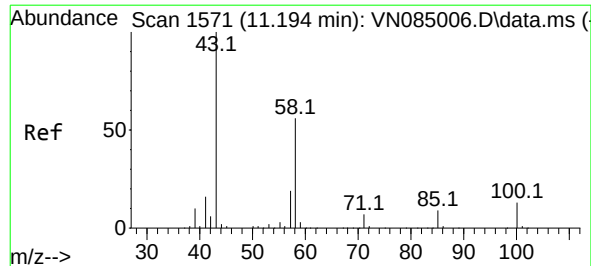
Tgt Ion: 63 Resp: 61252

Ion Ratio Lower Upper

63 100

106 30.3 23.0 34.6





#59

2-Hexanone

Concen: 47.542 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 43 Resp: 77951

Ion Ratio Lower Upper

43 100

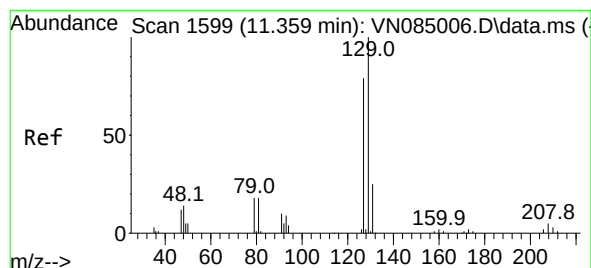
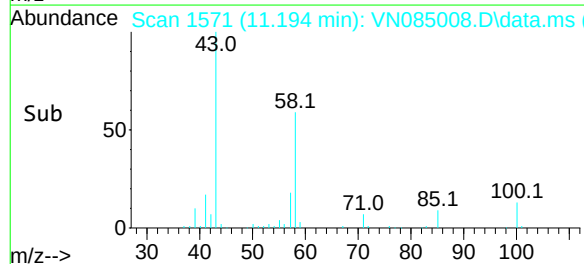
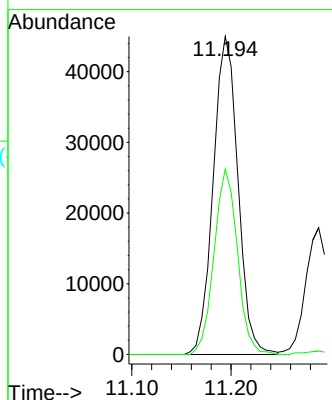
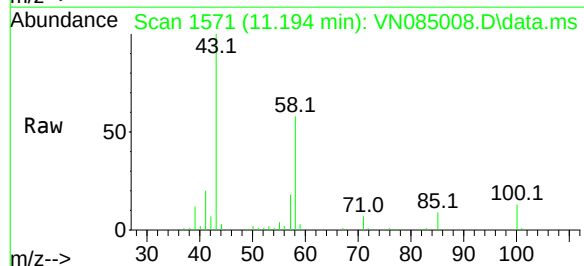
58 55.0 28.3 85.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#60

Dibromochloromethane

Concen: 8.991 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. -0.006 min

Lab File: VN085008.D

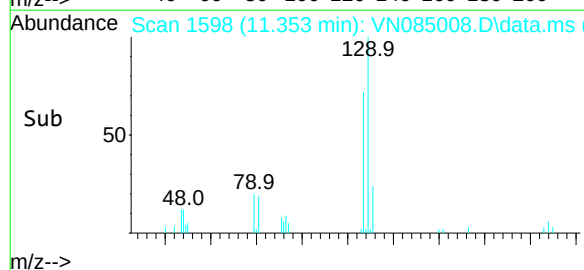
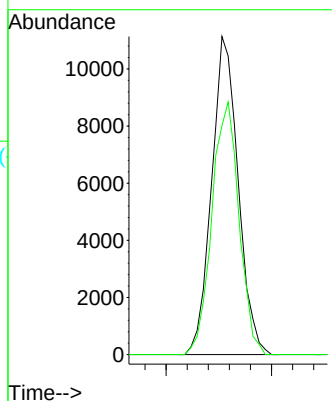
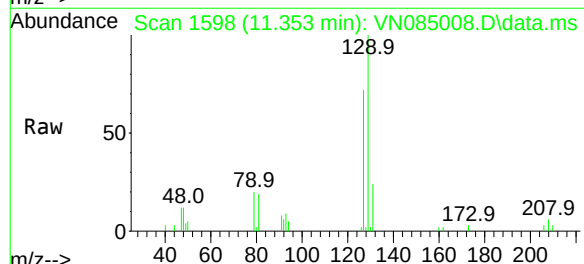
Acq: 22 Nov 2024 12:34

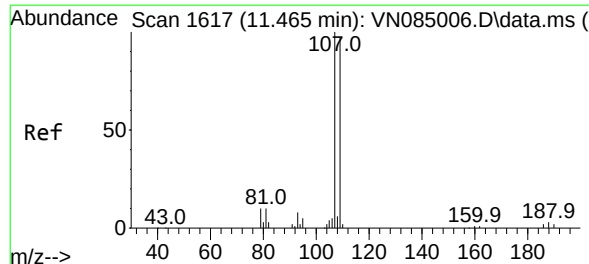
Tgt Ion:129 Resp: 19478

Ion Ratio Lower Upper

129 100

127 80.8 39.2 117.6





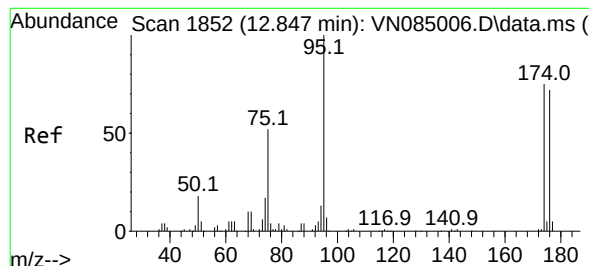
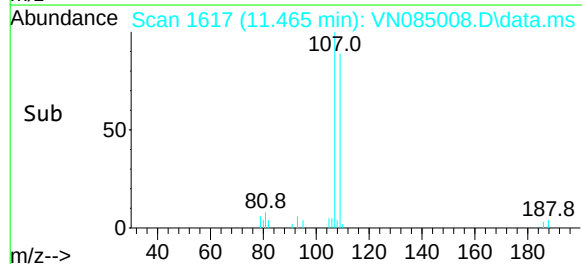
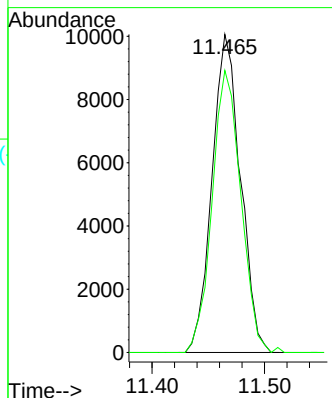
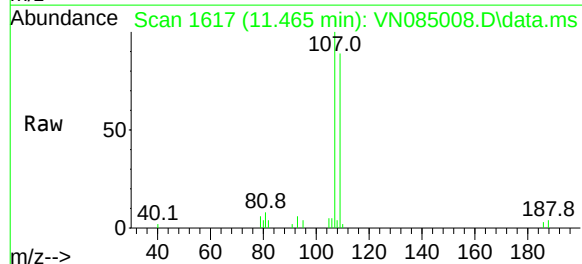
#61
1,2-Dibromoethane
Concen: 9.633 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085008.D
Acq: 22 Nov 2024 12:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

Tgt Ion: 107 Resp: 17673
Ion Ratio Lower Upper
107 100
109 89.8 76.1 114.1

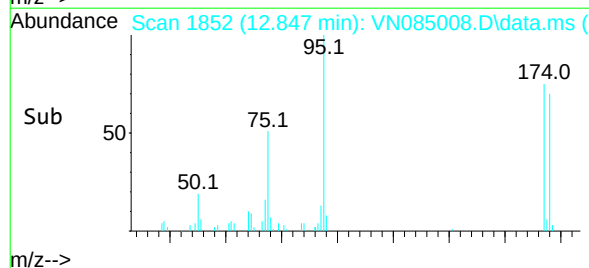
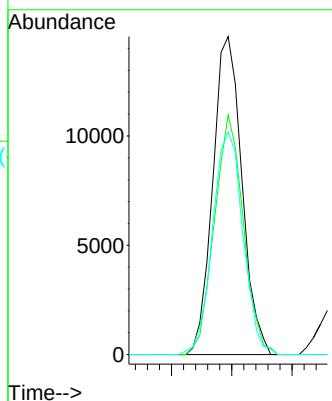
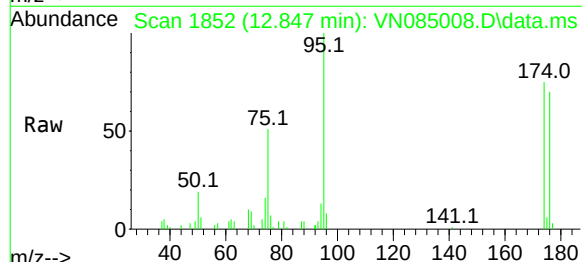
Manual Integrations
APPROVED

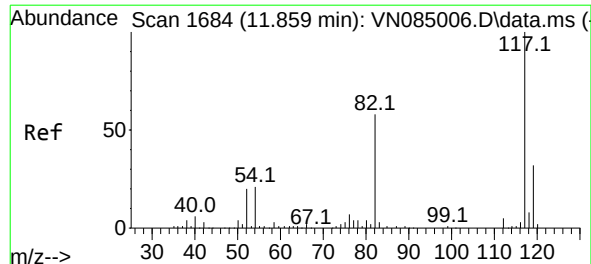
Reviewed By : John Carlone 11/25/2024
Supervised By : Mahesh Dadoda 11/25/2024



#62
4-Bromofluorobenzene
Concen: 9.691 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085008.D
Acq: 22 Nov 2024 12:34

Tgt Ion: 95 Resp: 24371
Ion Ratio Lower Upper
95 100
174 74.7 0.0 146.6
176 73.3 0.0 141.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1684

Delta R.T. 0.006 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion:117 Resp: 234609

Ion Ratio Lower Upper

117 100

82 57.5 46.0 69.0

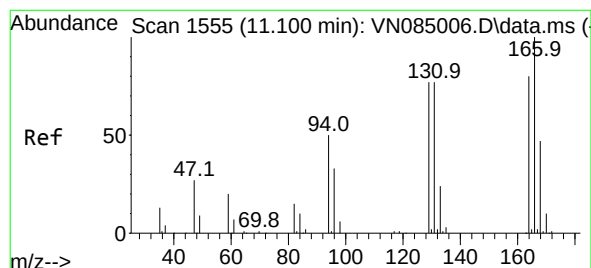
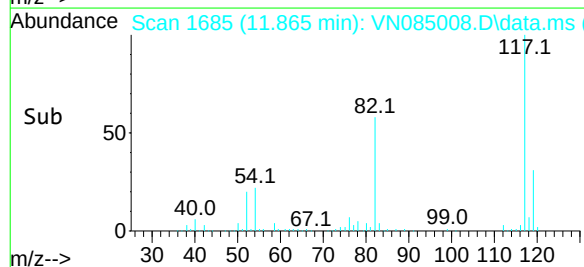
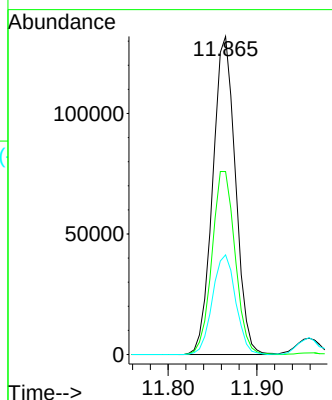
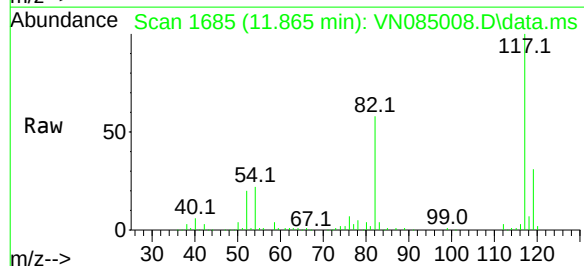
119 31.3 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#64

Tetrachloroethene

Concen: 9.547 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Tgt Ion:164 Resp: 15092

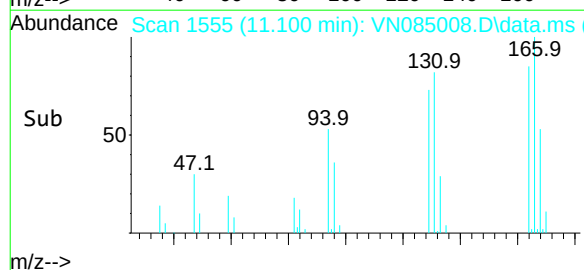
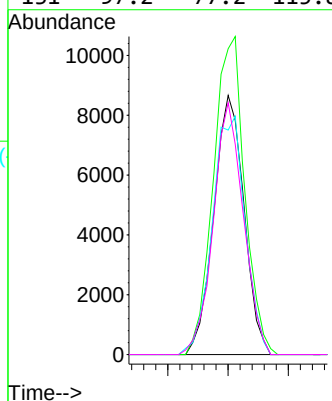
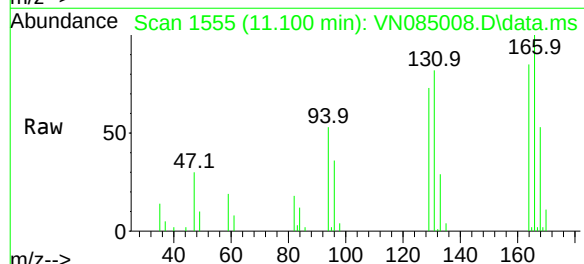
Ion Ratio Lower Upper

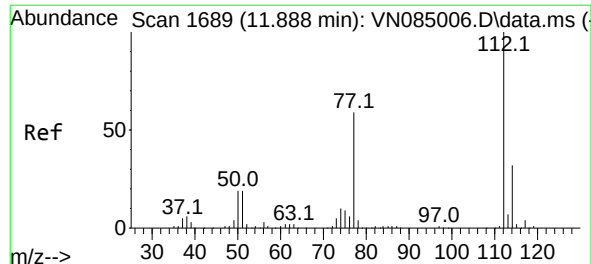
164 100

166 118.1 100.6 151.0

129 86.6 77.7 116.5

131 97.2 77.2 115.8





#65

Chlorobenzene

Concen: 9.605 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion:112 Resp: 51106

Ion Ratio Lower Upper

112 100

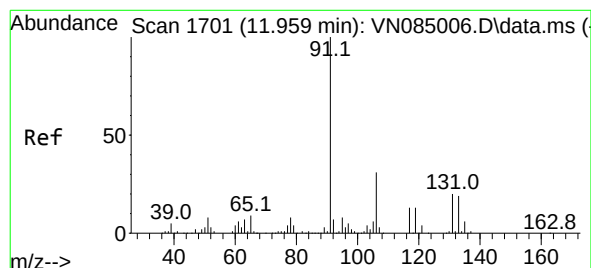
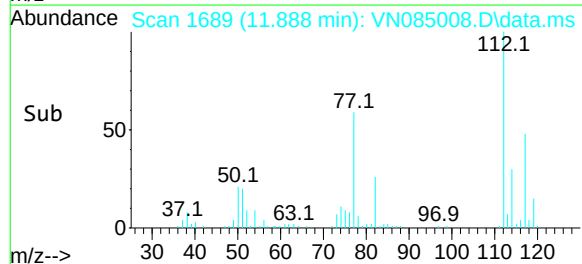
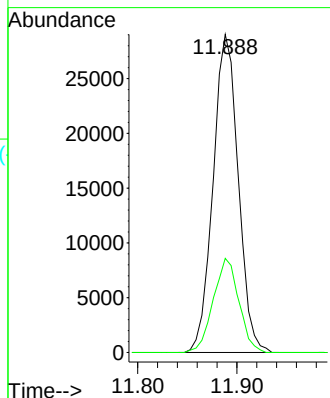
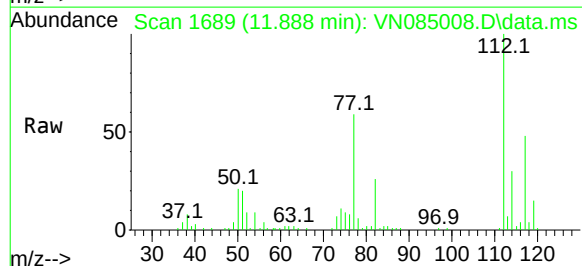
114 29.6 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#66

1,1,1,2-Tetrachloroethane

Concen: 9.590 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

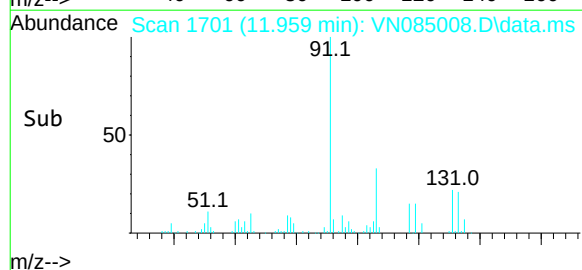
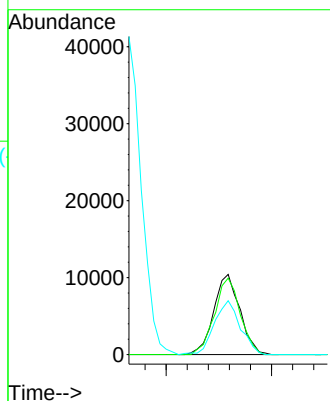
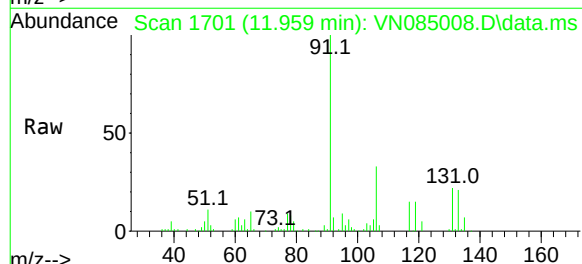
Tgt Ion:131 Resp: 17966

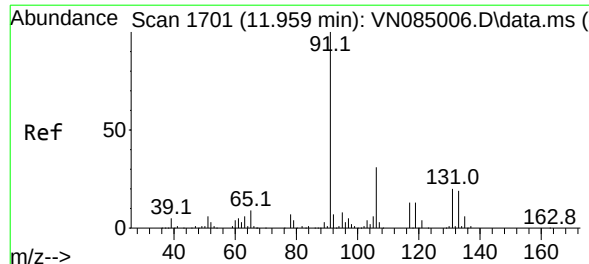
Ion Ratio Lower Upper

131 100

133 93.9 47.8 143.4

119 66.8 32.1 96.3





#67

Ethyl Benzene

Concen: 9.229 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 91 Resp: 79668

Ion Ratio Lower Upper

91 100

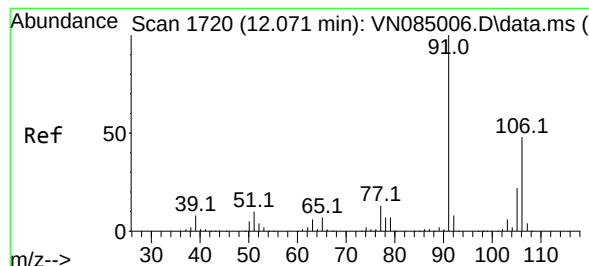
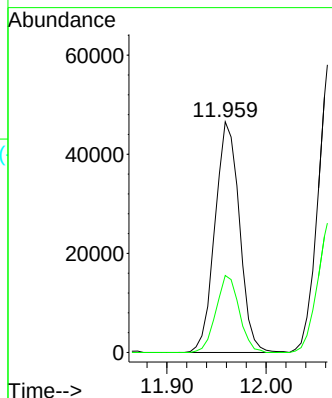
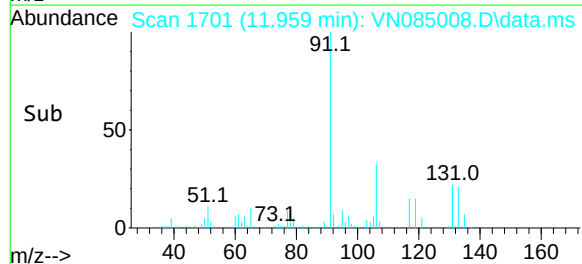
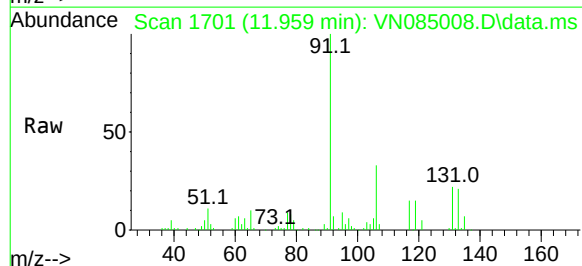
106 33.4 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#68

m/p-Xylenes

Concen: 18.925 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN085008.D

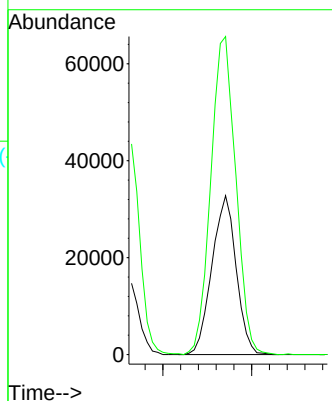
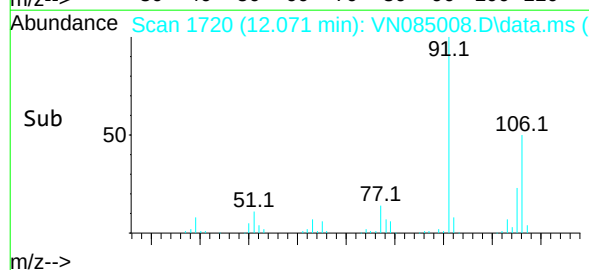
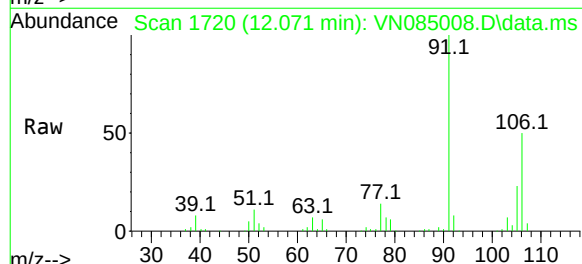
Acq: 22 Nov 2024 12:34

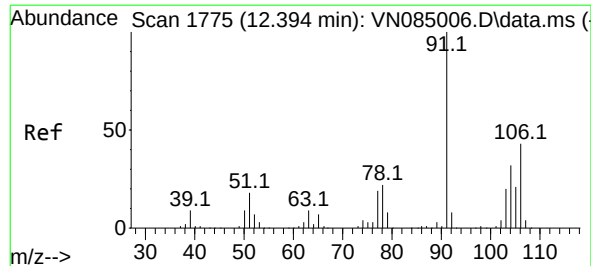
Tgt Ion:106 Resp: 62195

Ion Ratio Lower Upper

106 100

91 206.1 168.0 252.0





#69

o-Xylene

Concen: 9.618 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion:106 Resp: 30067

Ion Ratio Lower Upper

106 100

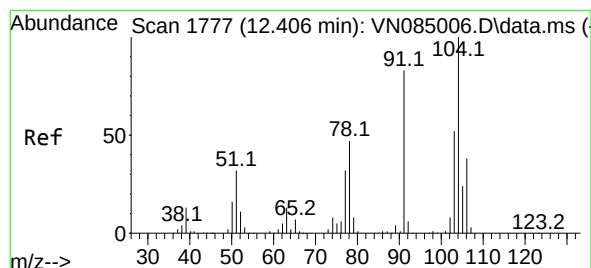
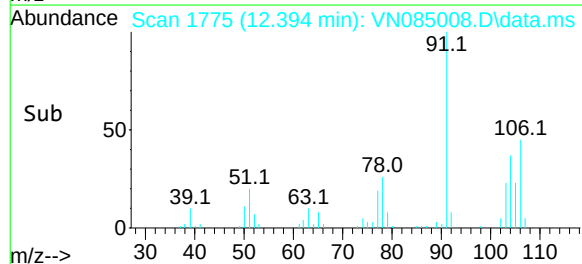
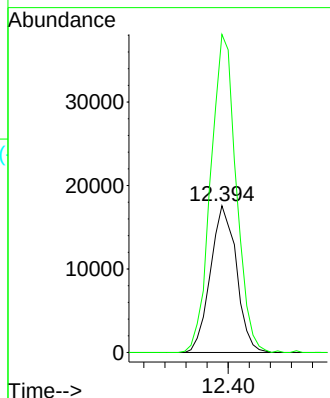
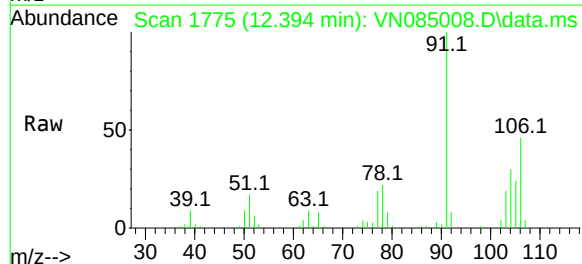
91 212.5 110.7 331.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#70

Styrene

Concen: 9.647 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. 0.006 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

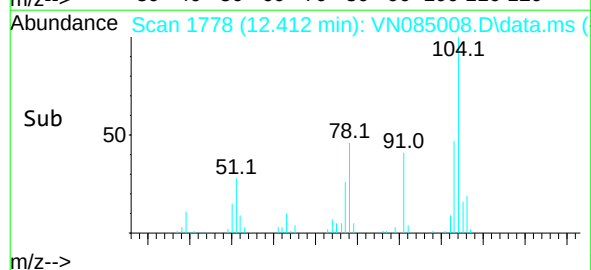
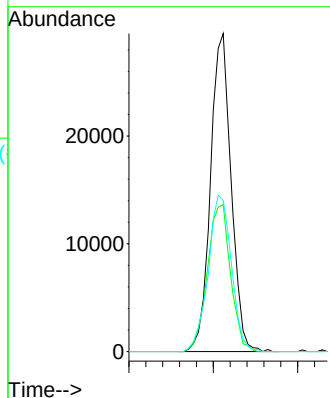
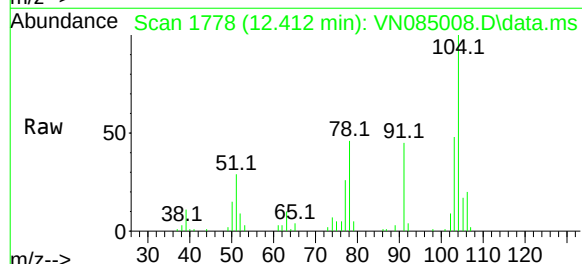
Tgt Ion:104 Resp: 50150

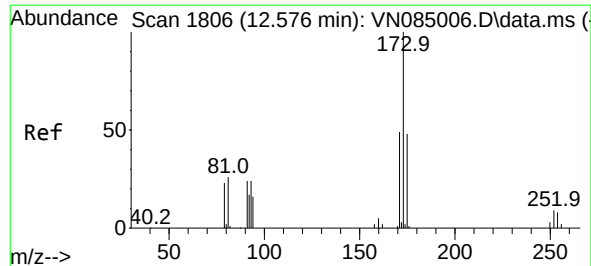
Ion Ratio Lower Upper

104 100

78 51.8 42.3 63.5

103 55.3 44.2 66.2





#71

Bromoform

Concen: 9.228 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

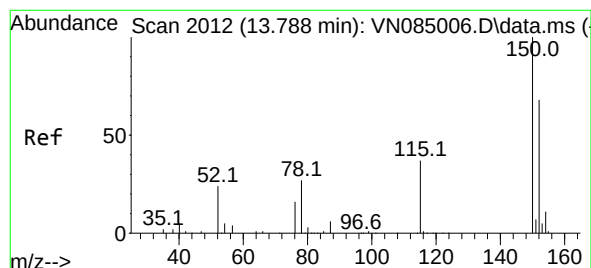
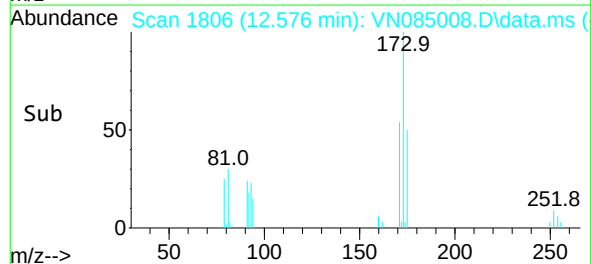
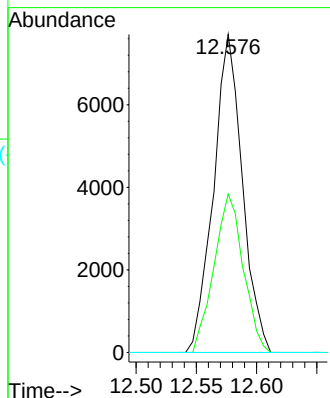
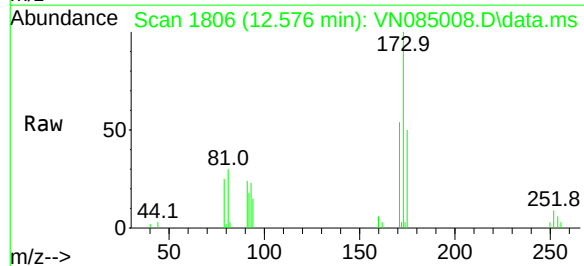
ClientSampleId :

VSTDICC010

Tgt Ion:	173	Resp:	12832
Ion Ratio	Lower	Upper	
173	100		
175	50.4	23.8	71.2
254	0.0	0.0	0.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

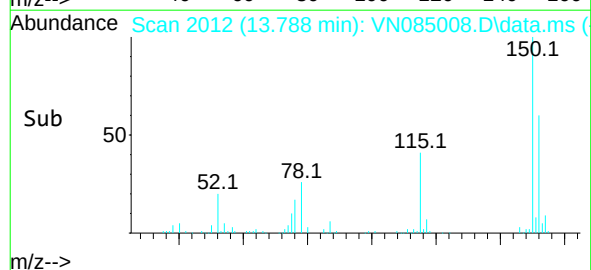
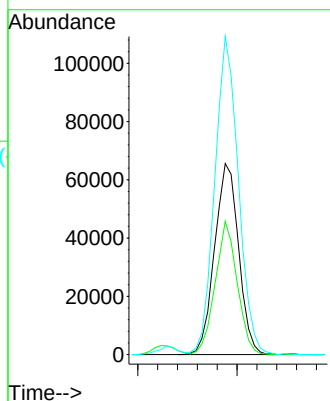
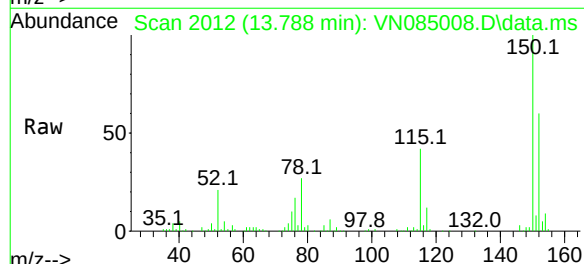
RT: 13.788 min Scan# 2012

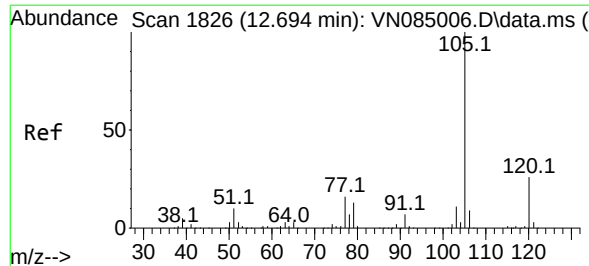
Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Tgt Ion:	152	Resp:	110358
Ion Ratio	Lower	Upper	
152	100		
115	63.9	31.7	95.1
150	163.9	0.0	351.4





#73

Isopropylbenzene

Concen: 9.644 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 105 Resp: 75080

Ion Ratio Lower Upper

105 100

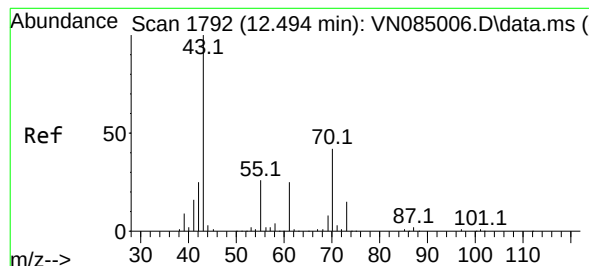
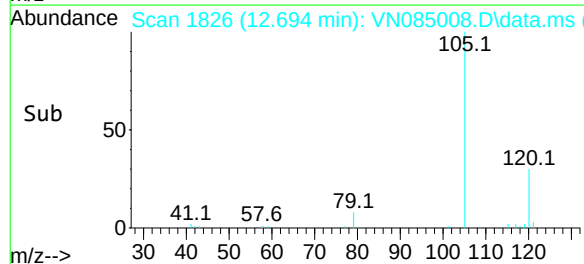
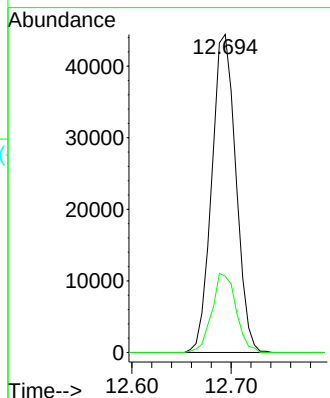
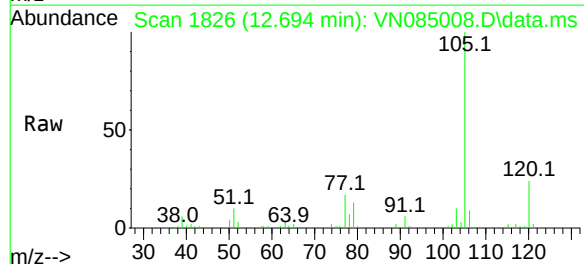
120 24.9 13.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#74

N-ethyl acetate

Concen: 9.292 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. -0.006 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Tgt Ion: 43 Resp: 29811

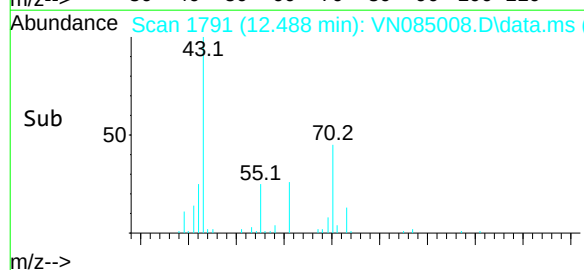
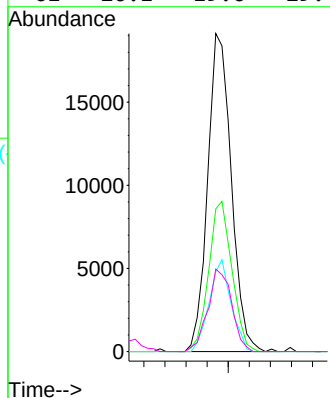
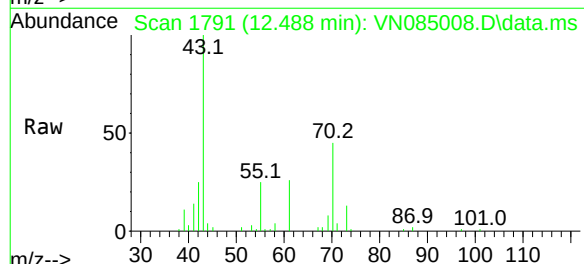
Ion Ratio Lower Upper

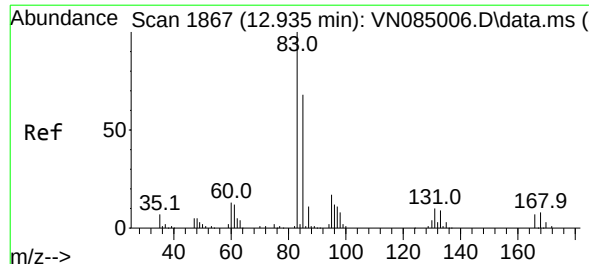
43 100

70 46.4 34.6 51.8

55 26.6 20.5 30.7

61 26.1 19.6 29.4





#75

1,1,2,2-Tetrachloroethane

Concen: 9.532 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

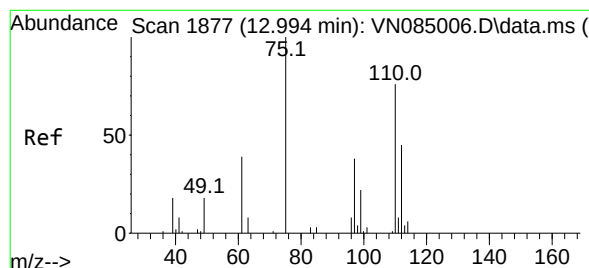
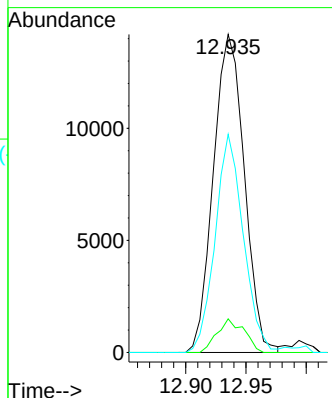
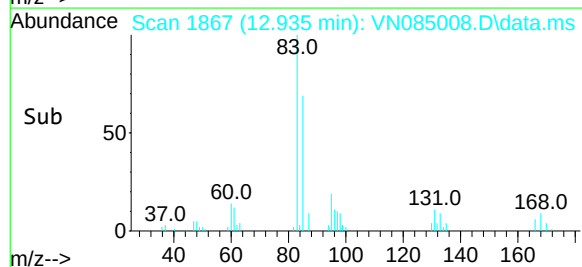
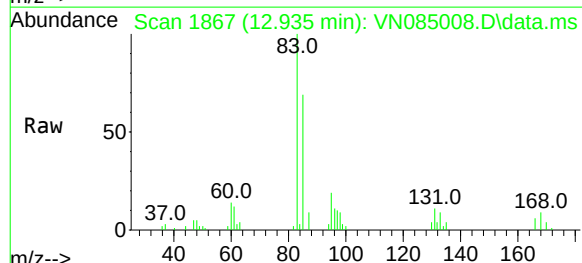
ClientSampleId :

VSTDIC010

Tgt Ion:	83	Resp:	25341
Ion	Ratio	Lower	Upper
83	100		
131	9.2	5.1	15.4
85	62.6	32.1	96.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#76

1,2,3-Trichloropropane

Concen: 8.206 ug/l m

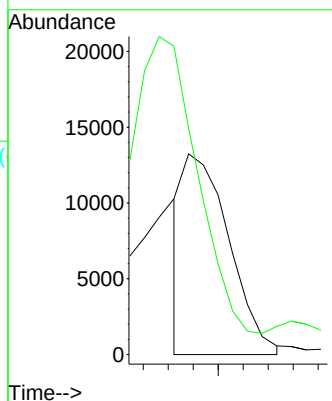
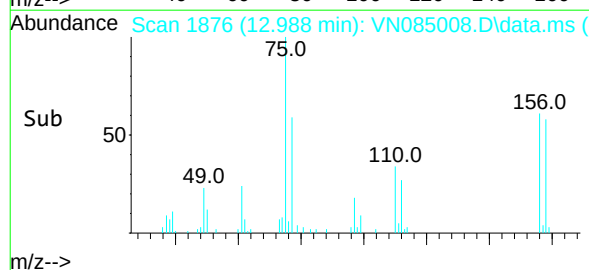
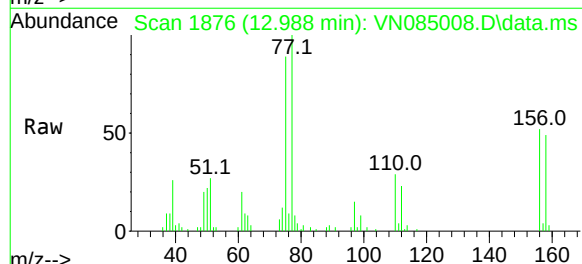
RT: 12.988 min Scan# 1876

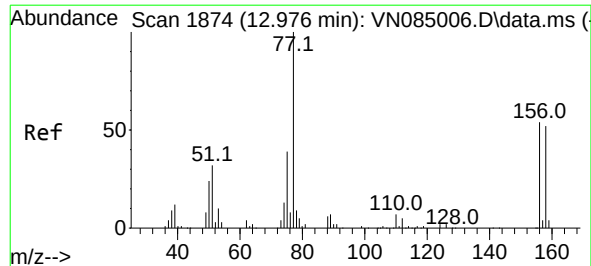
Delta R.T. -0.006 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Tgt Ion:	75	Resp:	16940
Ion	Ratio	Lower	Upper
75	100		
77	251.7	109.1	327.4





#77

Bromobenzene

Concen: 9.500 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. -0.000 min

Lab File: VN085008.D

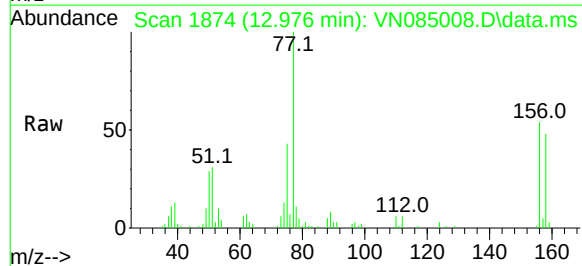
Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

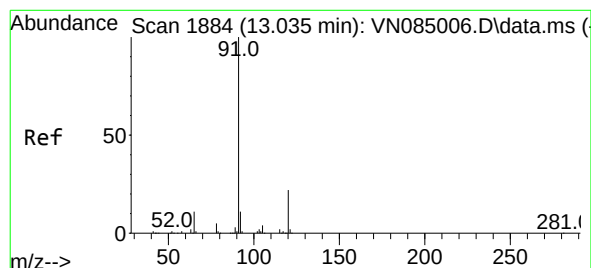
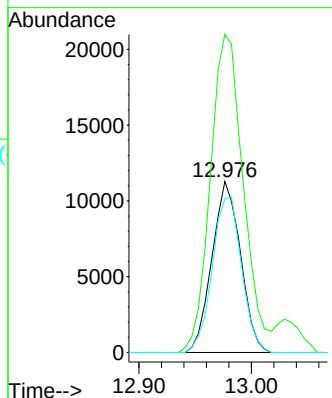
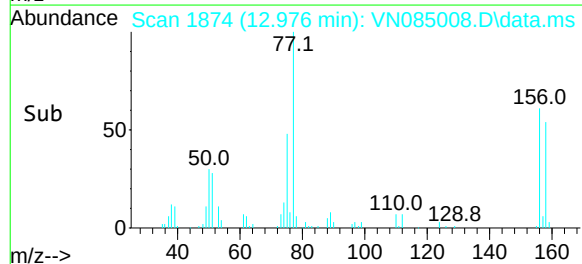
VSTDIC010



Tgt Ion:	156	Resp:	19904
Ion Ratio	Lower	Upper	
156	100		
77	214.3	107.2	321.6
158	93.5	48.5	145.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#78

n-propylbenzene

Concen: 9.537 ug/l

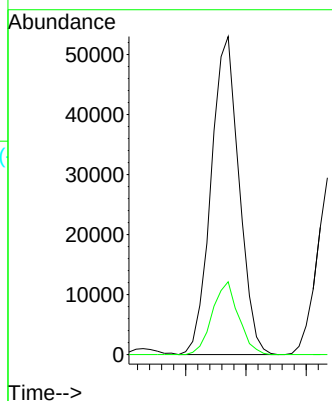
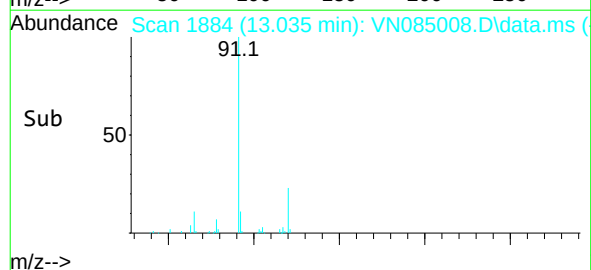
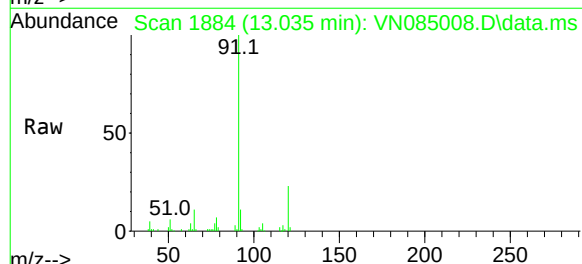
RT: 13.035 min Scan# 1884

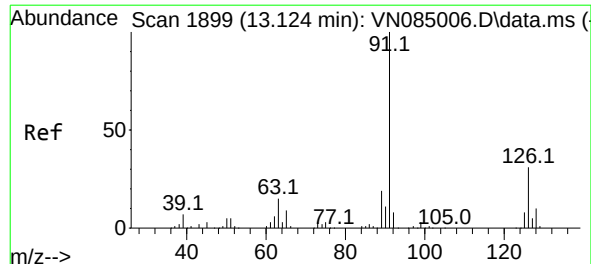
Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Tgt Ion:	91	Resp:	85642
Ion Ratio	Lower	Upper	
91	100		
120	21.4	11.3	33.9





#79

2-Chlorotoluene

Concen: 9.715 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 91 Resp: 58233

Ion Ratio Lower Upper

91 100

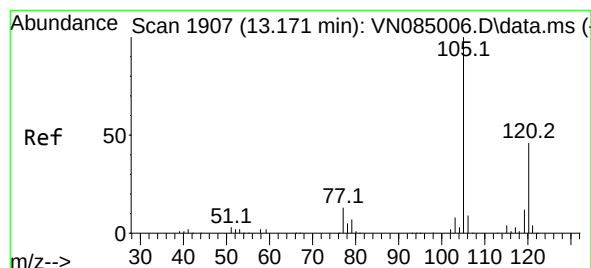
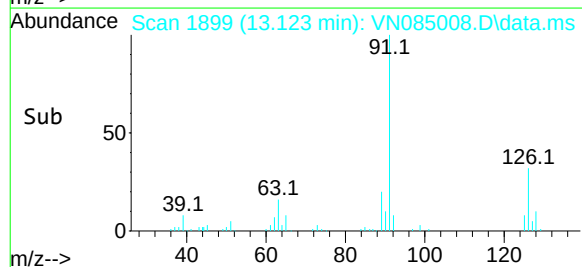
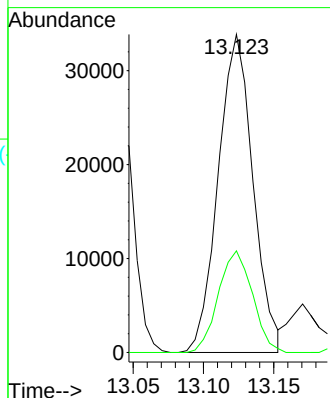
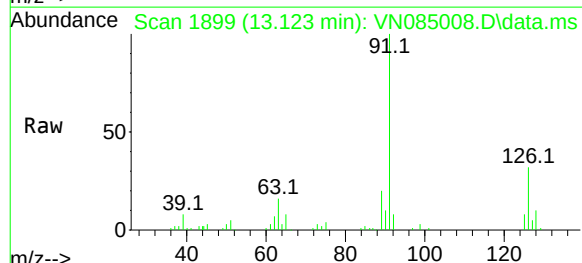
126 31.2 16.1 48.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#80

1,3,5-Trimethylbenzene

Concen: 9.676 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN085008.D

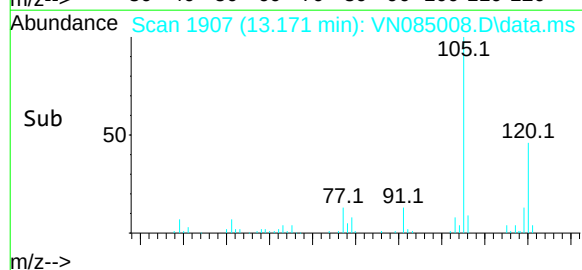
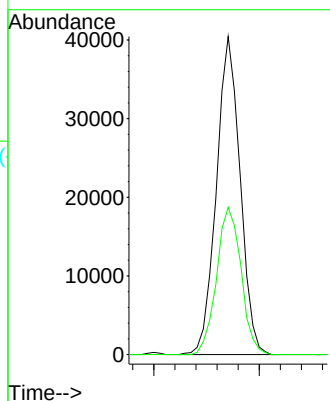
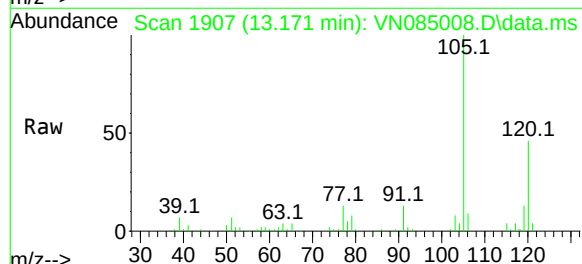
Acq: 22 Nov 2024 12:34

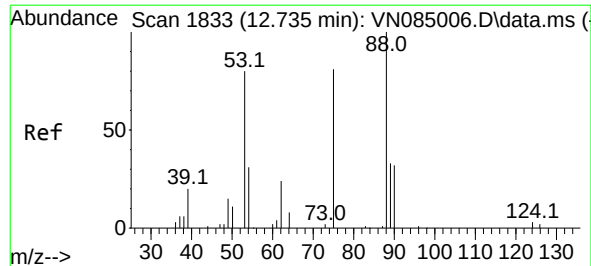
Tgt Ion:105 Resp: 63212

Ion Ratio Lower Upper

105 100

120 47.8 23.6 71.0





#81

trans-1,4-Dichloro-2-butene

Concen: 9.738 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

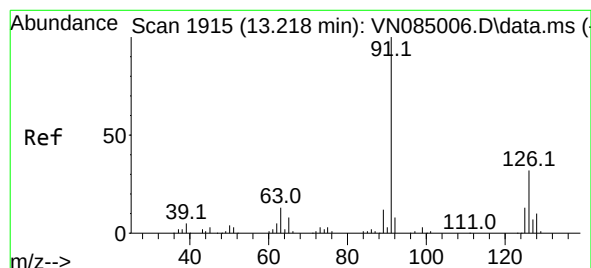
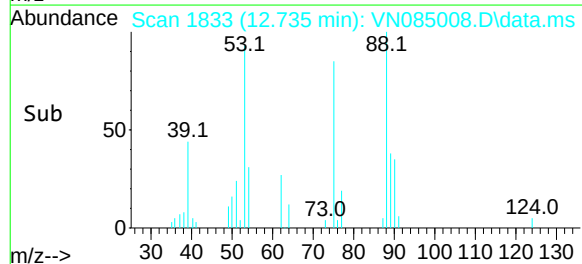
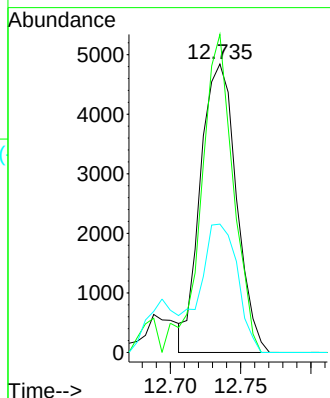
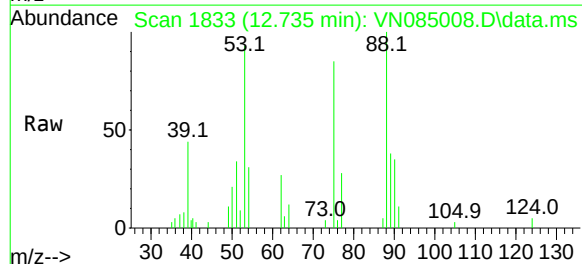
ClientSampleId :

VSTDICC010

Tgt Ion:	75	Resp:	8603
Ion	Ratio	Lower	Upper
75	100		
53	97.9	78.2	117.4
89	46.5	37.9	56.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#82

4-Chlorotoluene

Concen: 9.640 ug/l

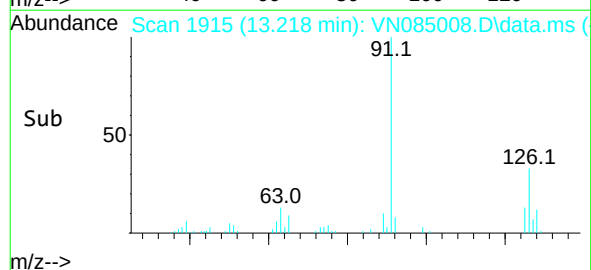
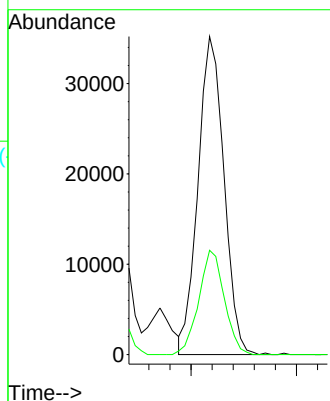
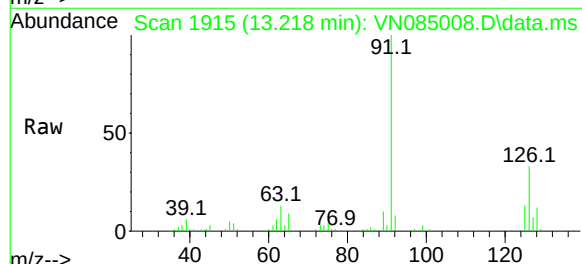
RT: 13.218 min Scan# 1915

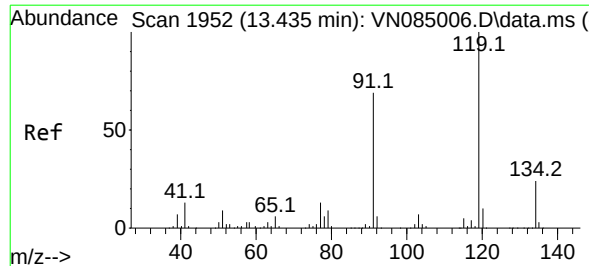
Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Tgt Ion:	91	Resp:	60156
Ion	Ratio	Lower	Upper
91	100		
126	32.3	16.1	48.3





#83

tert-Butylbenzene

Concen: 9.566 ug/l

RT: 13.435 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion:119 Resp: 53773

Ion Ratio Lower Upper

119 100

91 69.7 35.1 105.5

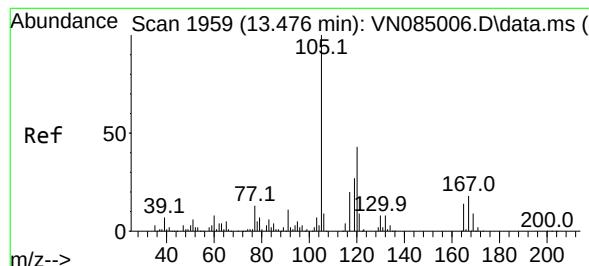
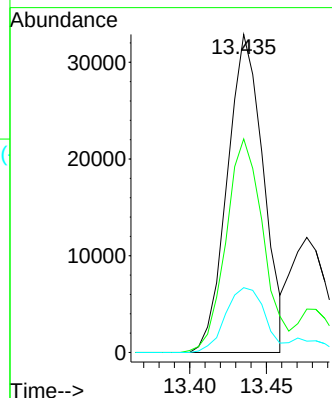
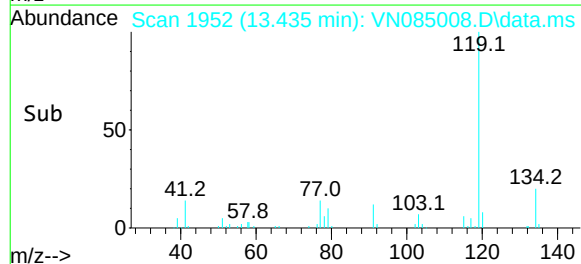
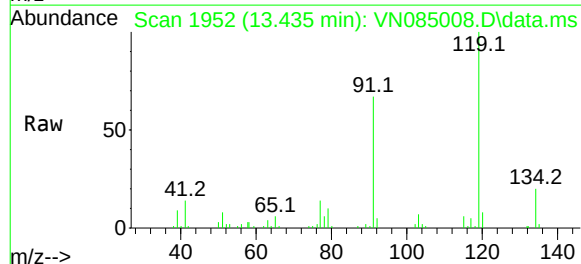
134 22.7 12.1 36.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#84

1,2,4-Trimethylbenzene

Concen: 9.607 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.006 min

Lab File: VN085008.D

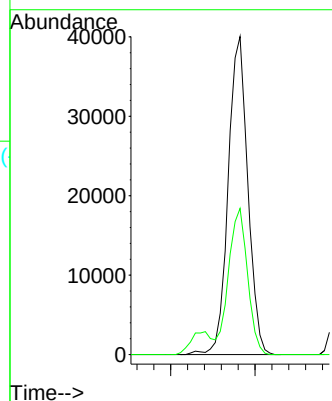
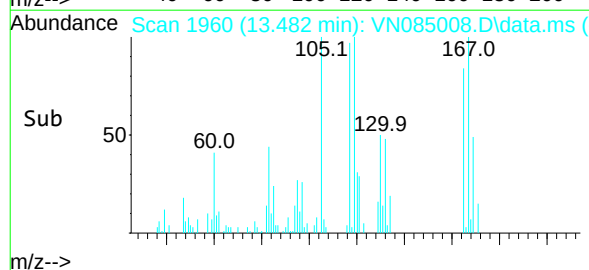
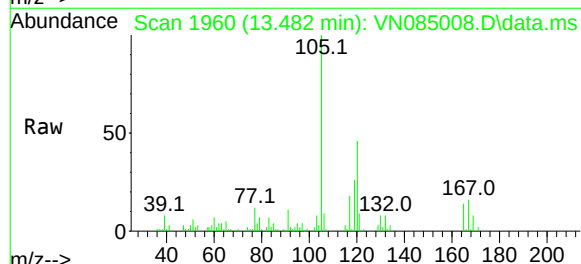
Acq: 22 Nov 2024 12:34

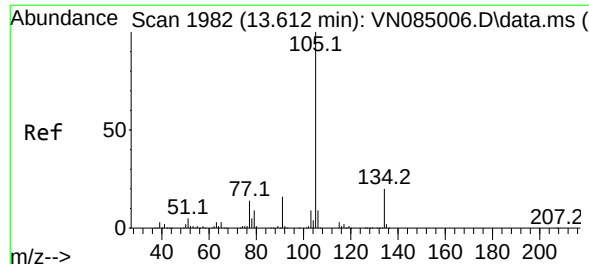
Tgt Ion:105 Resp: 64606

Ion Ratio Lower Upper

105 100

120 44.5 21.8 65.4





#85

sec-Butylbenzene

Concen: 9.535 ug/l

RT: 13.618 min Scan# 19

Delta R.T. 0.006 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion:105 Resp: 72405

Ion Ratio Lower Upper

105 100

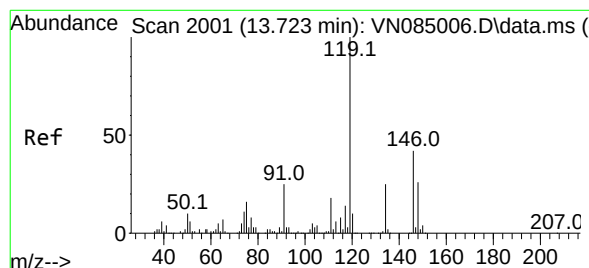
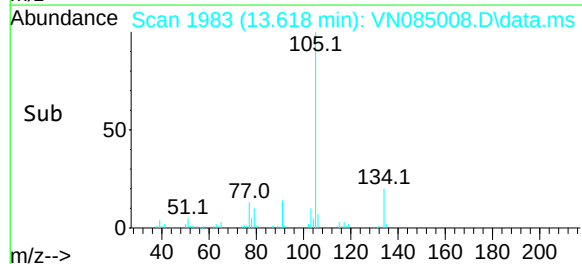
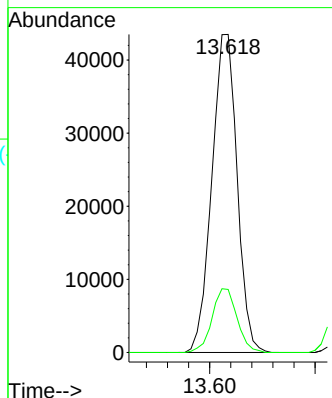
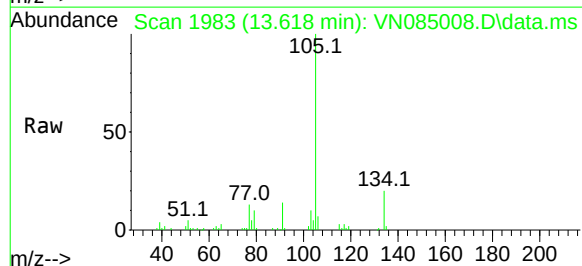
134 19.8 9.8 29.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#86

p-Isopropyltoluene

Concen: 9.647 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

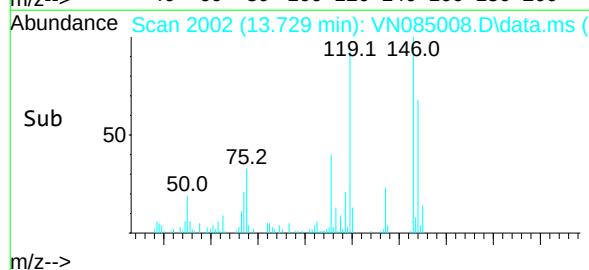
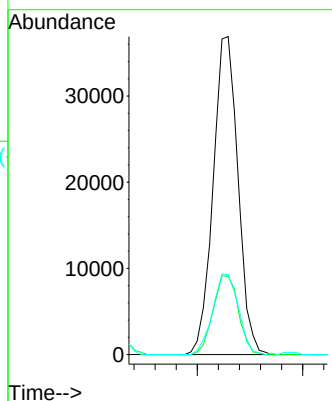
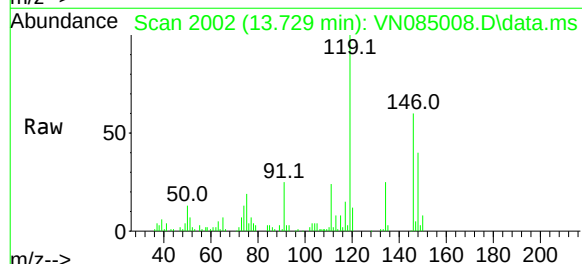
Tgt Ion:119 Resp: 60467

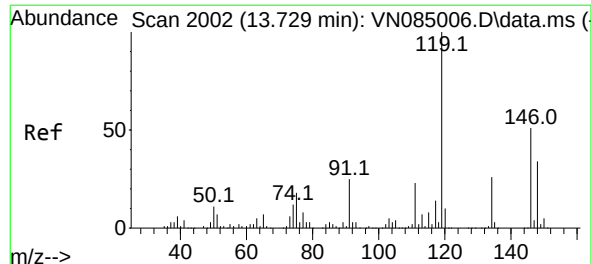
Ion Ratio Lower Upper

119 100

134 25.2 13.0 39.0

91 26.2 12.8 38.4





#87

1,3-Dichlorobenzene

Concen: 9.317 ug/l

RT: 13.735 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

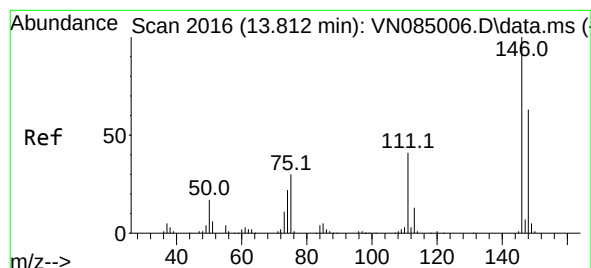
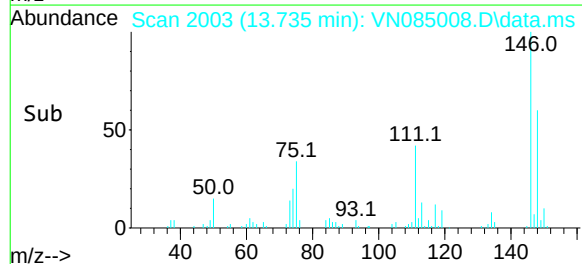
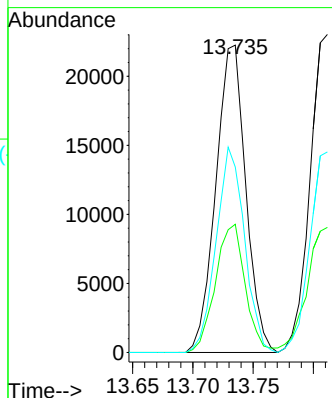
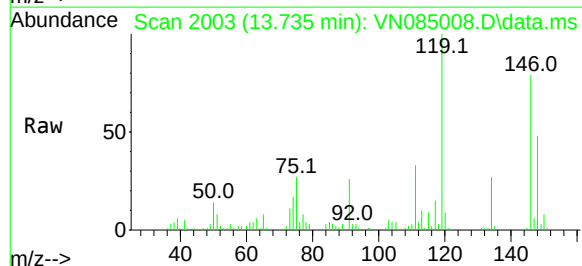
ClientSampleId :

VSTDIC010

Tgt Ion:	146	Resp:	38501
Ion	Ratio	Lower	Upper
146	100		
111	41.4	21.6	65.0
148	63.3	32.2	96.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#88

1,4-Dichlorobenzene

Concen: 9.360 ug/l

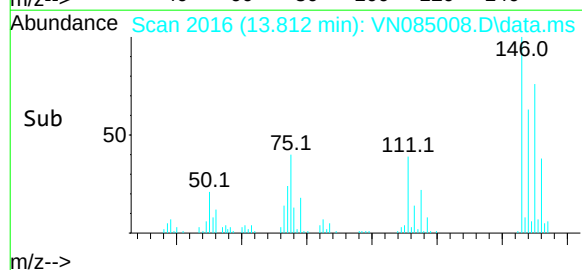
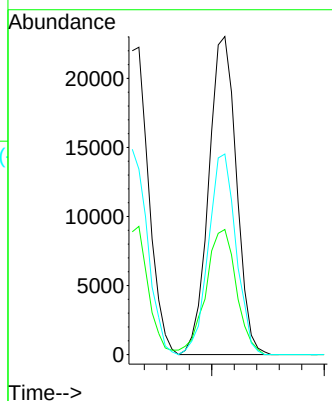
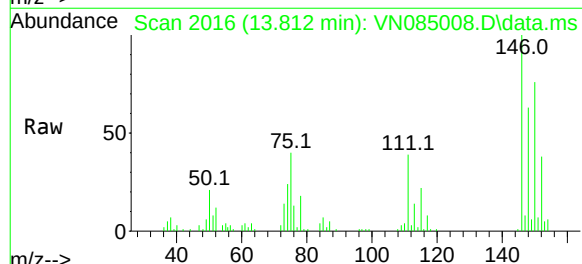
RT: 13.812 min Scan# 2016

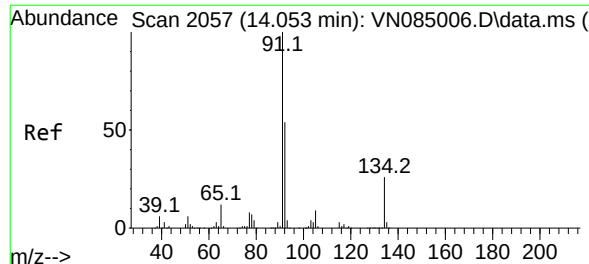
Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Tgt Ion:	146	Resp:	39471
Ion	Ratio	Lower	Upper
146	100		
111	43.5	20.9	62.8
148	62.7	31.3	93.9





#89

n-Butylbenzene

Concen: 8.994 ug/l

RT: 14.059 min Scan# 2057

Delta R.T. 0.006 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

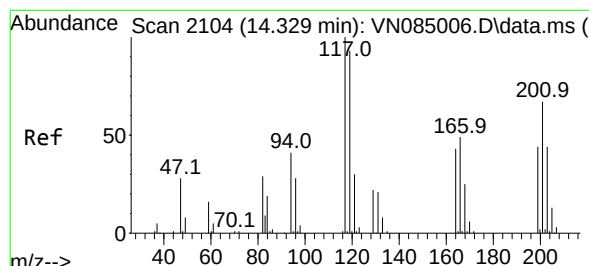
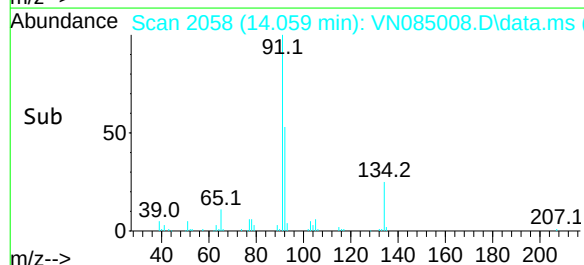
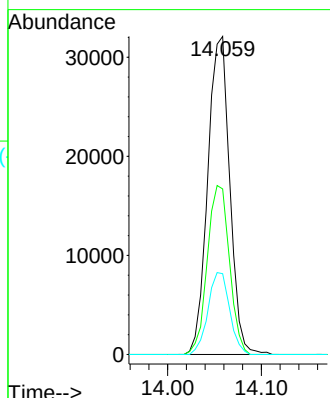
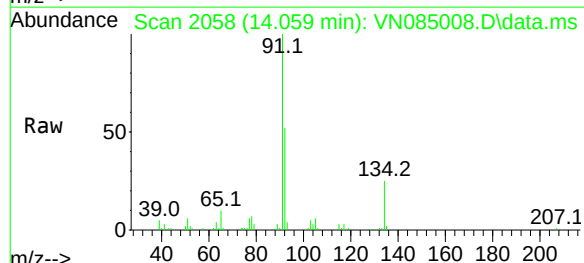
ClientSampleId :

VSTDICC010

Tgt Ion:	91	Resp:	52436
Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.8	80.3
134	25.3	12.8	38.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#90

Hexachloroethane

Concen: 9.179 ug/l

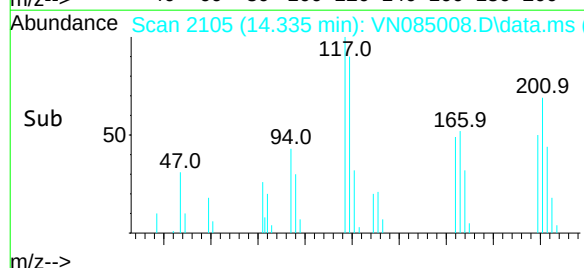
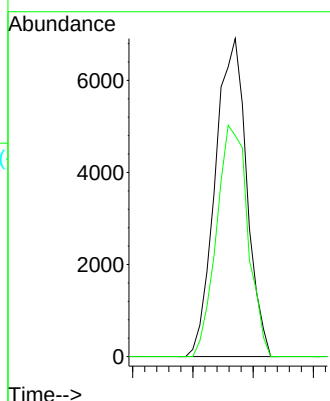
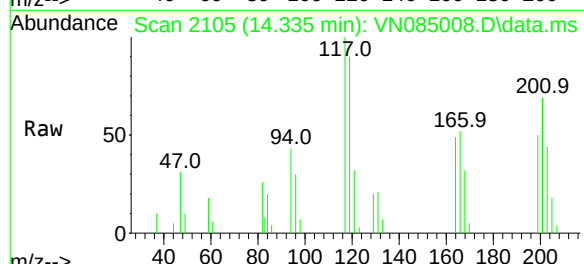
RT: 14.335 min Scan# 2105

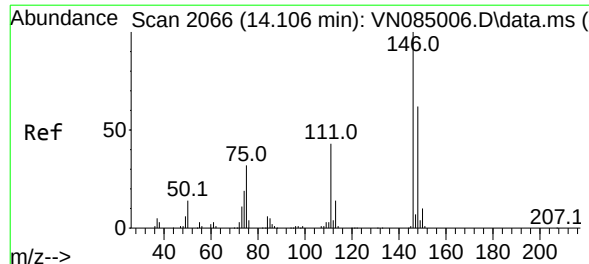
Delta R.T. 0.006 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Tgt Ion:	117	Resp:	12541
Ion	Ratio	Lower	Upper
117	100		
201	72.3	35.2	105.6





#91

1,2-Dichlorobenzene

Concen: 9.390 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

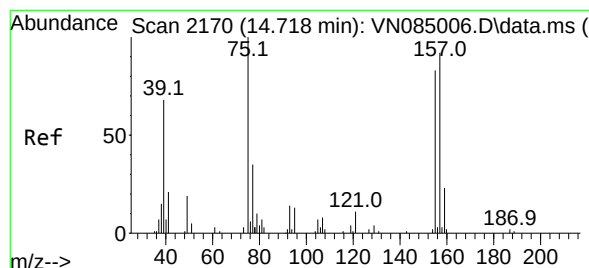
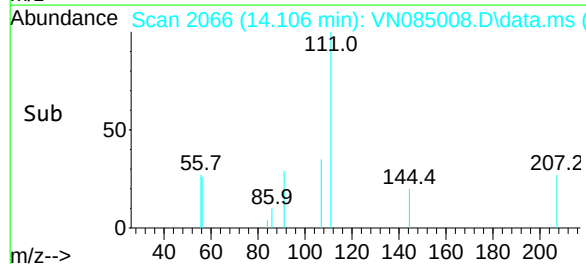
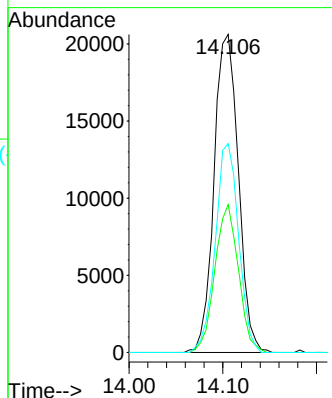
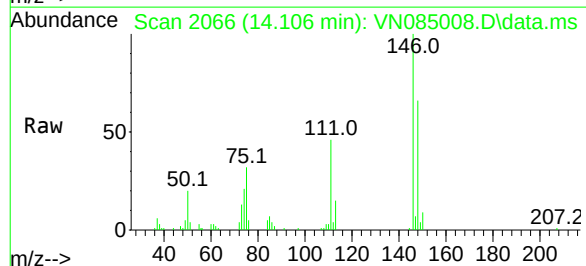
VSTDIC010

Tgt Ion:	146	Resp:	37183
Ion	Ratio	Lower	Upper
146	100		
111	45.1	21.9	65.8
148	63.1	31.1	93.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 9.565 ug/l

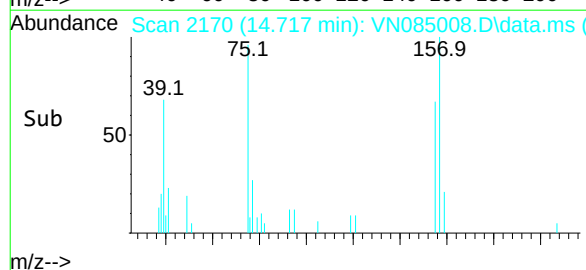
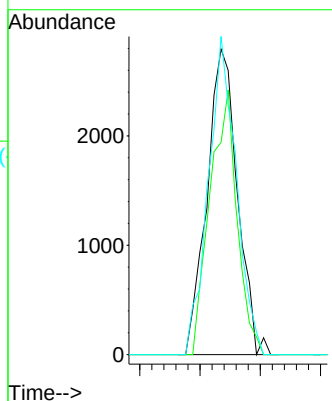
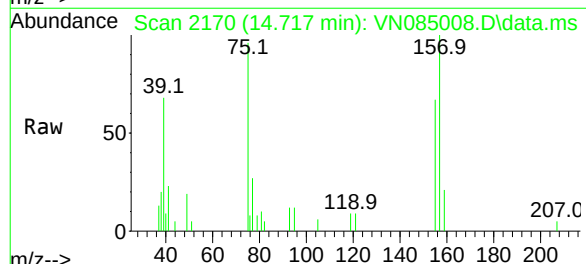
RT: 14.717 min Scan# 2170

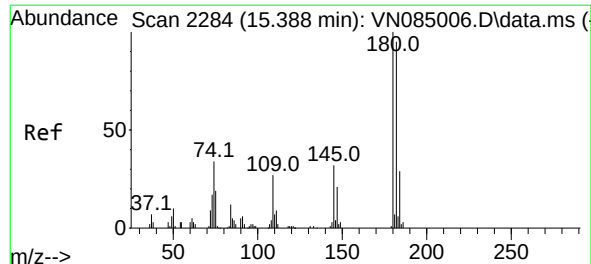
Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Tgt Ion:	75	Resp:	4917
Ion	Ratio	Lower	Upper
75	100		
155	76.6	38.9	116.7
157	95.3	48.3	144.9





#93

1,2,4-Trichlorobenzene

Concen: 9.429 ug/l

RT: 15.394 min Scan# 2285

Delta R.T. 0.006 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

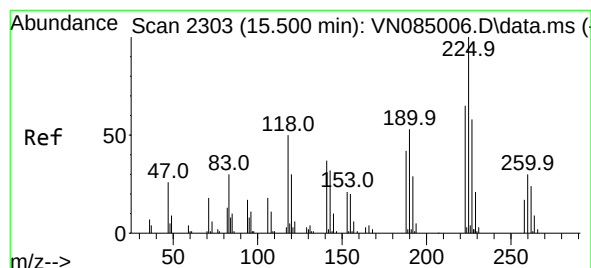
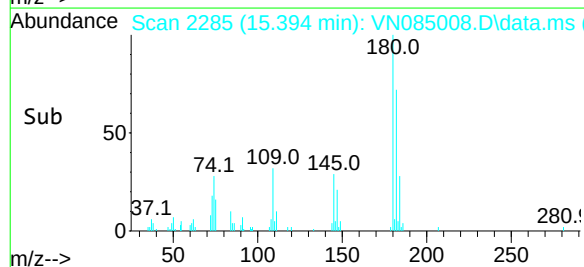
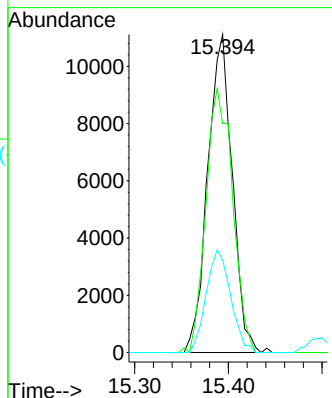
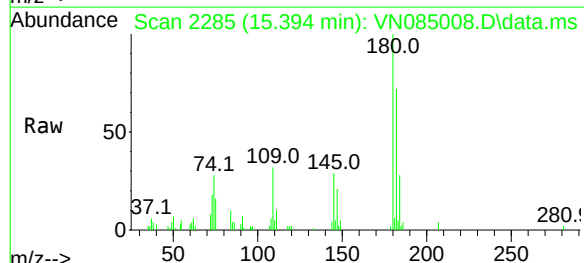
ClientSampleId :

VSTDIC010

Tgt	Ion:180	Resp:	20285
Ion	Ratio	Lower	Upper
180	100		
182	90.0	46.9	140.8
145	32.0	16.3	48.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#94

Hexachlorobutadiene

Concen: 9.080 ug/l

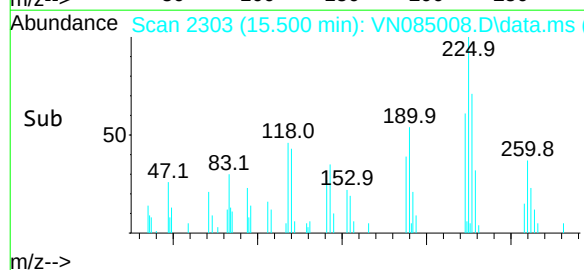
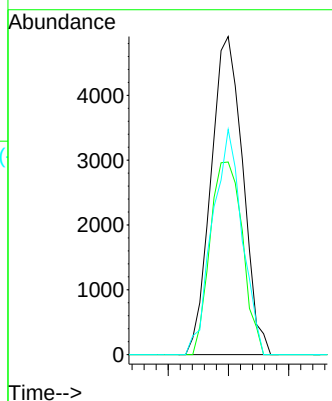
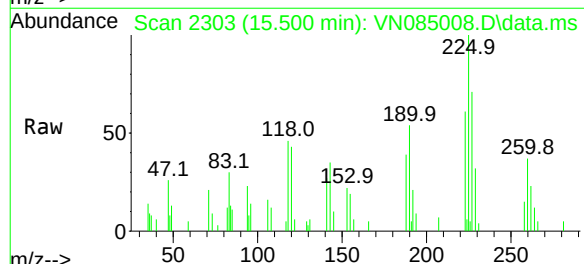
RT: 15.500 min Scan# 2303

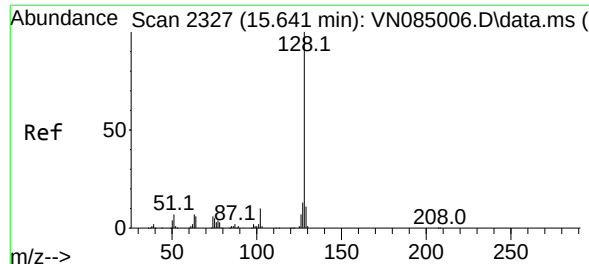
Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Tgt	Ion:225	Resp:	9015
Ion	Ratio	Lower	Upper
225	100		
223	61.7	30.9	92.8
227	66.2	31.5	94.5





#95

Naphthalene

Concen: 8.844 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. -0.000 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Instrument :

MSVOA_N

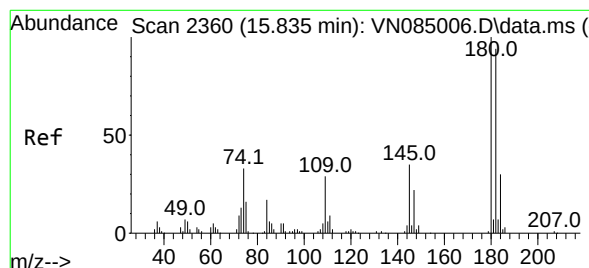
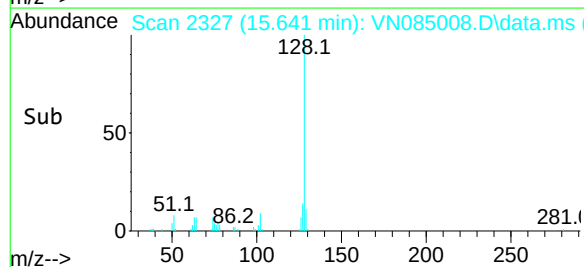
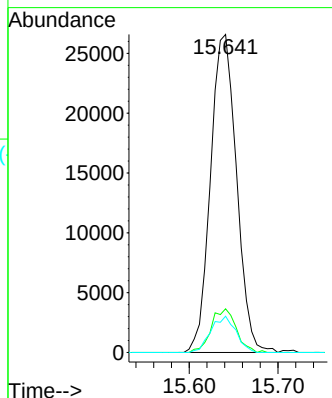
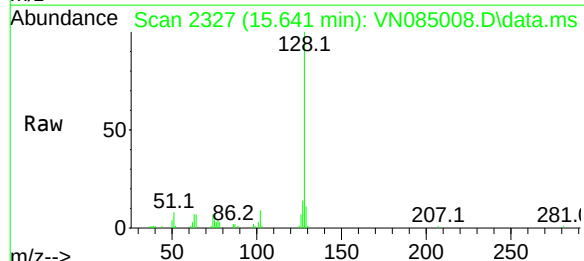
ClientSampleId :

VSTDICC010

Tgt Ion:	128	Resp:	54191
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.6	16.0
129	11.0	8.6	12.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#96

1,2,3-Trichlorobenzene

Concen: 9.132 ug/l

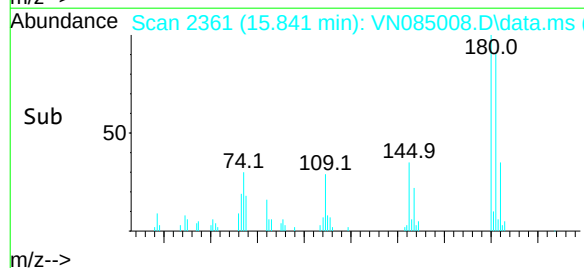
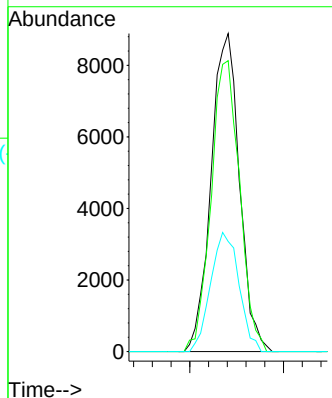
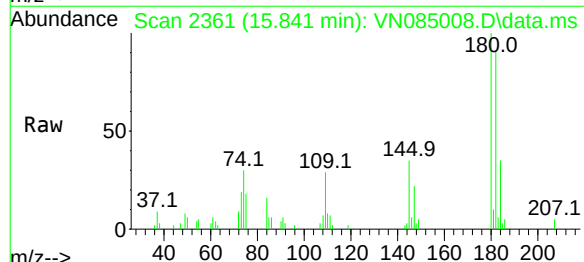
RT: 15.841 min Scan# 2361

Delta R.T. 0.006 min

Lab File: VN085008.D

Acq: 22 Nov 2024 12:34

Tgt Ion:	180	Resp:	18745
Ion	Ratio	Lower	Upper
180	100		
182	91.9	46.4	139.2
145	37.3	17.3	52.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
 Data File : VN085009.D
 Acq On : 22 Nov 2024 12:57
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations APPROVED

Reviewed By : John Carlone 11/25/2024
 Supervised By : Mahesh Dadoda 11/25/2024

Quant Time: Nov 23 02:01:07 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 23 01:56:57 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	165285	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	280025	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.864	117	235767	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	108389	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.571	65	11977	5.087	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	10.180%#
35) Dibromofluoromethane	8.159	113	9597	5.082	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	10.160%#
50) Toluene-d8	10.559	98	32318	4.775	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	9.560%#
62) 4-Bromofluorobenzene	12.847	95	12715	5.024	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	10.040%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	9758	5.221	ug/l	91
3) Chloromethane	2.359	50	10967	5.059	ug/l	97
4) Vinyl Chloride	2.512	62	10043	5.155	ug/l	92
5) Bromomethane	2.900	94	6052	5.543	ug/l	98
6) Chloroethane	3.059	64	6721	5.119	ug/l	93
7) Trichlorofluoromethane	3.465	101	17204	5.192	ug/l	98
8) Diethyl Ether	3.947	74	5696	5.050	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.353	101	9518	5.064	ug/l	98
10) Methyl Iodide	4.577	142	12631	5.077	ug/l	96
11) Tert butyl alcohol	5.541	59	9684	30.780	ug/l #	89
12) 1,1-Dichloroethene	4.318	96	8977	5.117	ug/l #	92
13) Acrolein	4.177	56	4745	22.602	ug/l	95
14) Allyl chloride	5.006	41	14439	4.882	ug/l	97
15) Acrylonitrile	5.712	53	22627	25.403	ug/l	96
16) Acetone	4.430	43	16131	23.525	ug/l	93
17) Carbon Disulfide	4.694	76	26272	5.074	ug/l #	87
18) Methyl Acetate	5.018	43	14139	5.429	ug/l	98
19) Methyl tert-butyl Ether	5.800	73	27679	4.829	ug/l	95
20) Methylene Chloride	5.271	84	10410	4.975	ug/l #	88
21) trans-1,2-Dichloroethene	5.765	96	9388	5.085	ug/l	99
22) Diisopropyl ether	6.659	45	30018	5.043	ug/l	97
23) Vinyl Acetate	6.594	43	97507	23.745	ug/l	96
24) 1,1-Dichloroethane	6.559	63	18044	5.066	ug/l	97
25) 2-Butanone	7.482	43	27100	24.174	ug/l	98
26) 2,2-Dichloropropane	7.482	77	16525	4.968	ug/l	99
27) cis-1,2-Dichloroethene	7.482	96	11250	5.055	ug/l	96
28) Bromochloromethane	7.806	49	6592	4.903	ug/l #	98
29) Tetrahydrofuran	7.841	42	17501	25.104	ug/l	99
30) Chloroform	7.959	83	18837	4.971	ug/l	91
31) Cyclohexane	8.247	56	18036	5.751	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	16611	4.851	ug/l	97
36) 1,1-Dichloropropene	8.371	75	13147	5.140	ug/l	98
37) Ethyl Acetate	7.553	43	11891	5.114	ug/l #	79
38) Carbon Tetrachloride	8.359	117	14827	5.022	ug/l	96
39) Methylcyclohexane	9.594	83	13143	4.945	ug/l	95
40) Benzene	8.600	78	40657	5.026	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085009.D
Acq On : 22 Nov 2024 12:57
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024

Quant Time: Nov 23 02:01:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.782	41	5687	4.417	ug/l	93
42) 1,2-Dichloroethane	8.671	62	14824	5.356	ug/l	99
43) Isopropyl Acetate	8.688	43	23894	4.947	ug/l	95
44) Trichloroethene	9.347	130	9711	5.165	ug/l	100
45) 1,2-Dichloropropane	9.618	63	9859	4.948	ug/l	99
46) Dibromomethane	9.706	93	6962	5.028	ug/l	98
47) Bromodichloromethane	9.888	83	14562	4.962	ug/l #	96
48) Methyl methacrylate	9.676	41	8840	4.918	ug/l	94
49) 1,4-Dioxane	9.694	88	2953	94.738	ug/l #	83
51) 4-Methyl-2-Pentanone	10.441	43	55176	25.010	ug/l	100
52) Toluene	10.629	92	24051	5.022	ug/l	98
53) t-1,3-Dichloropropene	10.835	75	13412	4.559	ug/l	91
54) cis-1,3-Dichloropropene	10.312	75	14917	4.779	ug/l	95
55) 1,1,2-Trichloroethane	11.017	97	8791	4.928	ug/l	96
56) Ethyl methacrylate	10.876	69	12004	4.605	ug/l	93
57) 1,3-Dichloropropane	11.159	76	15736	5.012	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	27177	21.254	ug/l	100
59) 2-Hexanone	11.194	43	41641	25.237	ug/l	95
60) Dibromochloromethane	11.359	129	10844	4.974	ug/l	98
61) 1,2-Dibromoethane	11.465	107	9468	5.128	ug/l	96
64) Tetrachloroethene	11.100	164	8826	5.556	ug/l	89
65) Chlorobenzene	11.888	112	26717	4.997	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	9904	5.261	ug/l	96
67) Ethyl Benzene	11.959	91	42642	4.916	ug/l	96
68) m/p-Xylenes	12.070	106	31421	9.514	ug/l	99
69) o-Xylene	12.400	106	14935	4.754	ug/l	98
70) Styrene	12.412	104	24480	4.686	ug/l	99
71) Bromoform	12.576	173	7040	5.038	ug/l #	100
73) Isopropylbenzene	12.694	105	37544	4.910	ug/l	97
74) N-amyl acetate	12.494	43	14995	4.759	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.941	83	13341	5.109	ug/l	98
76) 1,2,3-Trichloropropane	12.988	75	8907m	4.393	ug/l	
77) Bromobenzene	12.976	156	10485	5.095	ug/l	94
78) n-propylbenzene	13.035	91	43493	4.931	ug/l	99
79) 2-Chlorotoluene	13.123	91	29037	4.932	ug/l	97
80) 1,3,5-Trimethylbenzene	13.170	105	30809	4.802	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.735	75	4774	5.502	ug/l #	88
82) 4-Chlorotoluene	13.217	91	30558	4.986	ug/l	97
83) tert-Butylbenzene	13.435	119	26485	4.797	ug/l	99
84) 1,2,4-Trimethylbenzene	13.476	105	31328	4.743	ug/l	98
85) sec-Butylbenzene	13.611	105	35183	4.718	ug/l	99
86) p-Isopropyltoluene	13.729	119	28019	4.551	ug/l	98
87) 1,3-Dichlorobenzene	13.735	146	21043	5.185	ug/l	96
88) 1,4-Dichlorobenzene	13.806	146	22041	5.322	ug/l	93
89) n-Butylbenzene	14.053	91	27093	4.732	ug/l	99
90) Hexachloroethane	14.329	117	6869	5.119	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	19670	5.058	ug/l	96
92) 1,2-Dibromo-3-Chloropr...	14.711	75	2703	5.353	ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	10547	4.992	ug/l	98
94) Hexachlorobutadiene	15.494	225	5141	5.272	ug/l	96
95) Naphthalene	15.641	128	29077	4.832	ug/l	97
96) 1,2,3-Trichlorobenzene	15.835	180	10042	4.981	ug/l	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085009.D
Acq On : 22 Nov 2024 12:57
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024

Quant Time: Nov 23 02:01:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 2024
Response via : Initial Calibration

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

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

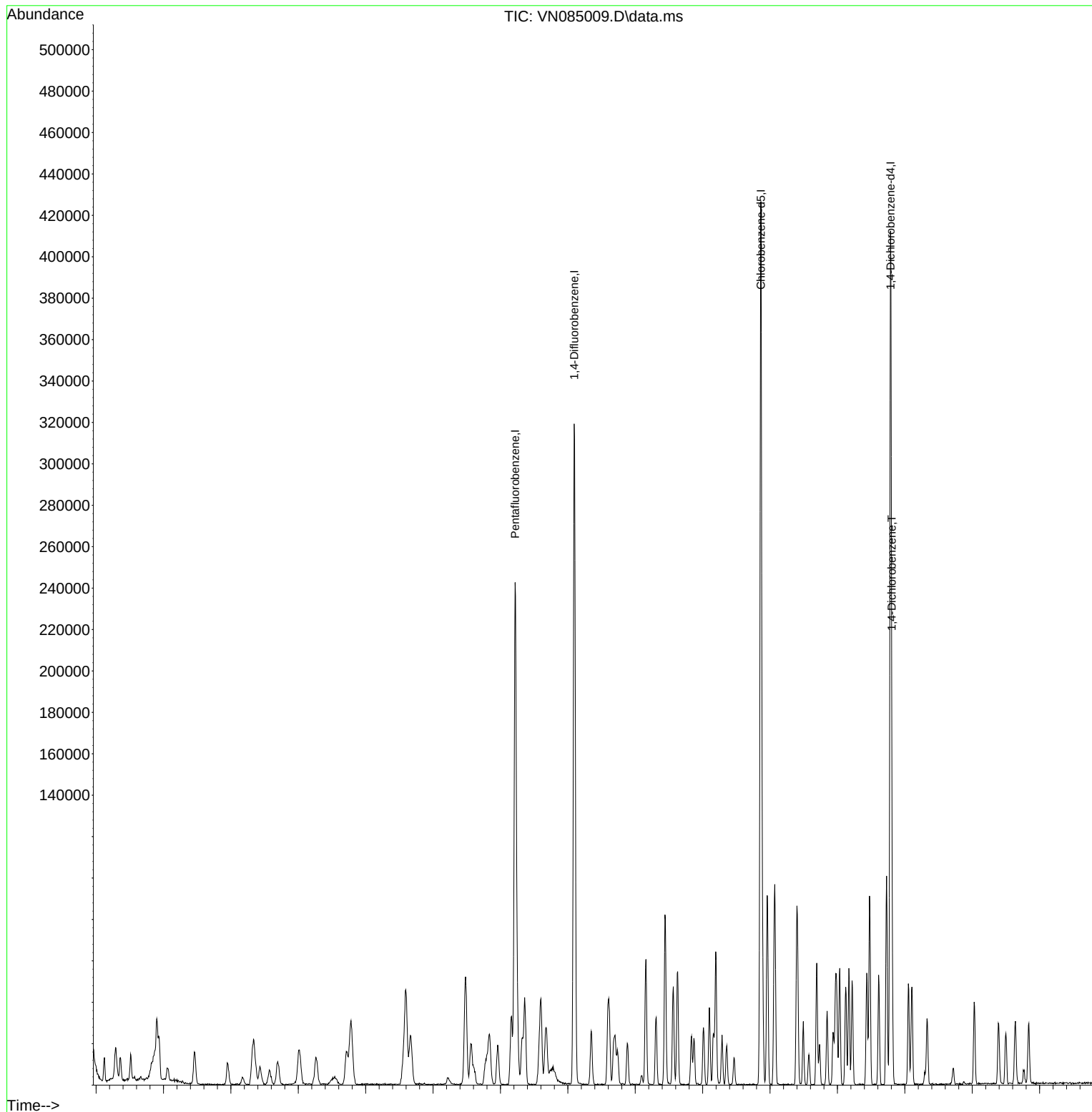
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Data File : VN085009.D
Acq On : 22 Nov 2024 12:57
Operator : JC\MD
Sample : VSTDIC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

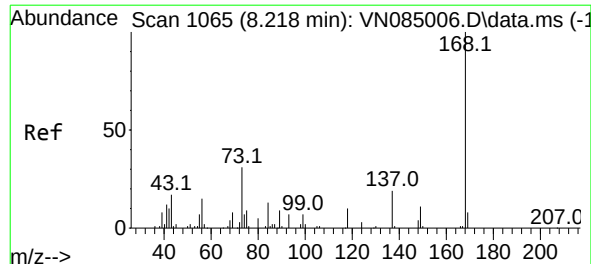
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Manual Integrations
APPROVED

Reviewed By : John Carlone 11/25/2024
Supervised By : Mahesh Dadoda 11/25/2024

Quant Time: Nov 23 02:01:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 2024
Response via : Initial Calibration





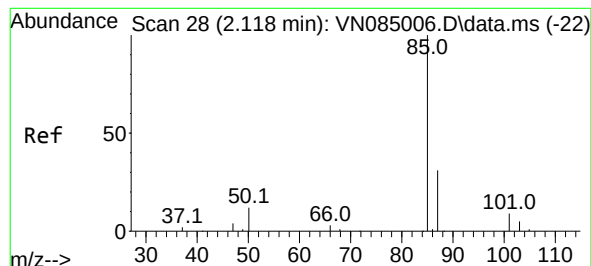
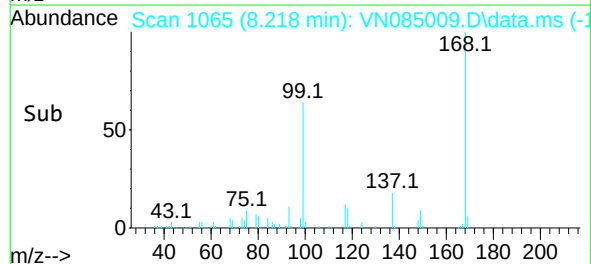
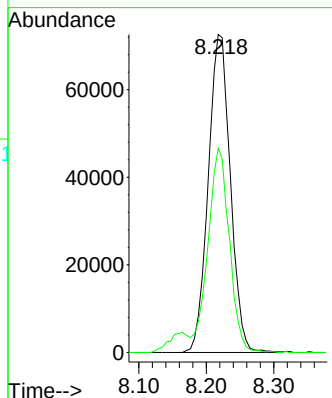
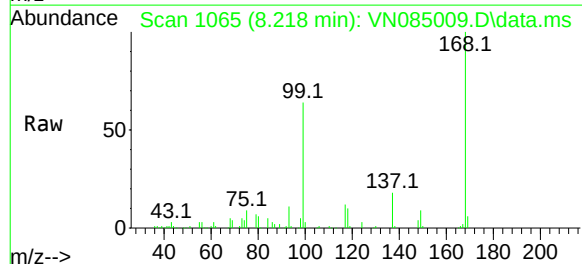
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085009.D
Acq: 22 Nov 2024 12:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:168 Resp: 165285
Ion Ratio Lower Upper
168 100
99 64.2 51.2 76.8

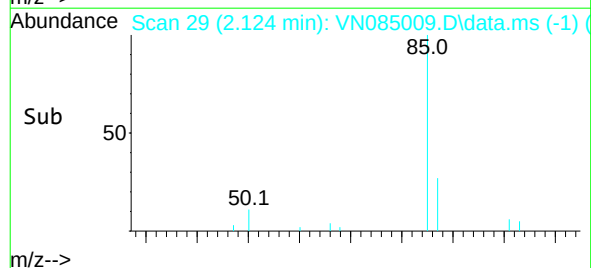
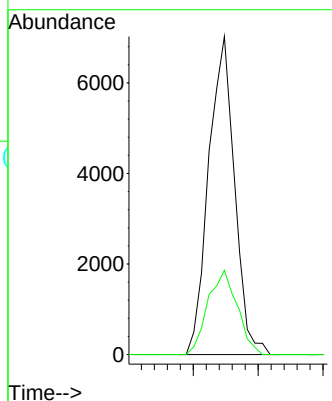
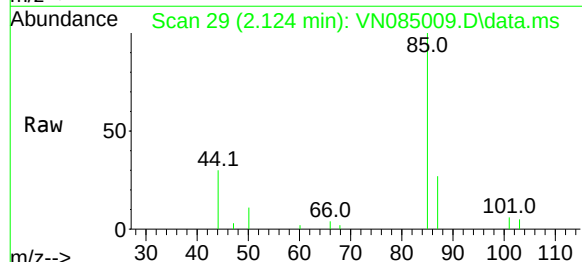
Manual Integrations
APPROVED

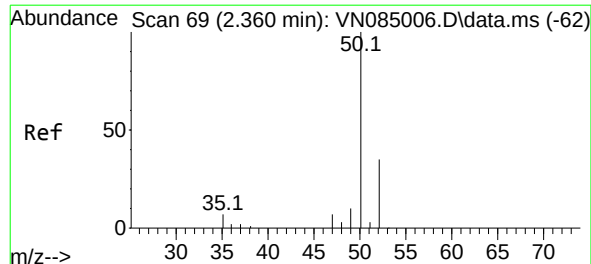
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#2
Dichlorodifluoromethane
Concen: 5.221 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.006 min
Lab File: VN085009.D
Acq: 22 Nov 2024 12:57

Tgt Ion: 85 Resp: 9758
Ion Ratio Lower Upper
85 100
87 26.5 15.7 47.1





#3

Chloromethane

Concen: 5.059 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 50 Resp: 10967

Ion Ratio Lower Upper

50 100

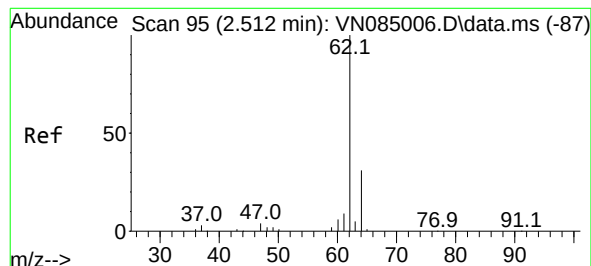
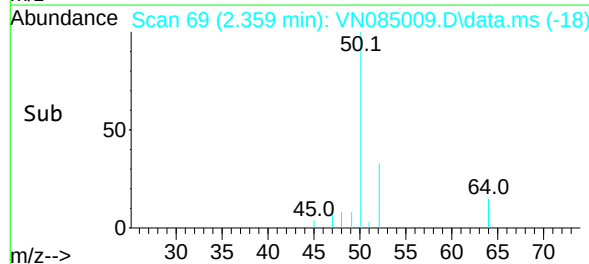
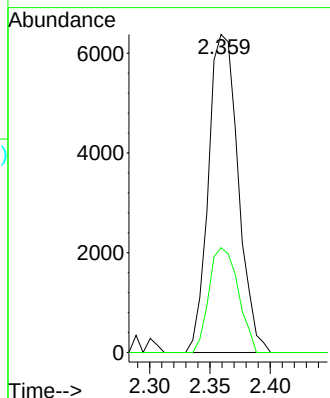
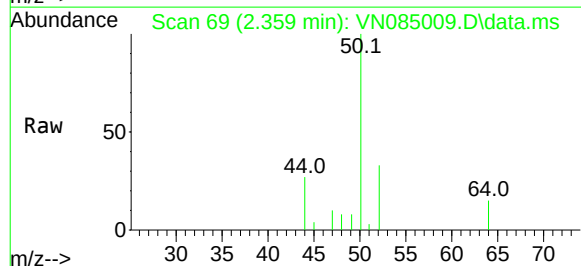
52 33.0 27.8 41.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#4

Vinyl Chloride

Concen: 5.155 ug/l

RT: 2.512 min Scan# 95

Delta R.T. -0.000 min

Lab File: VN085009.D

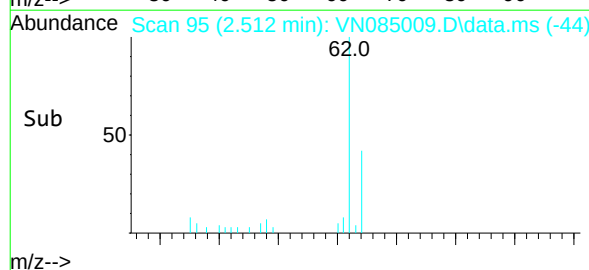
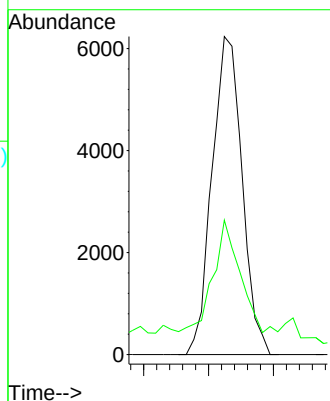
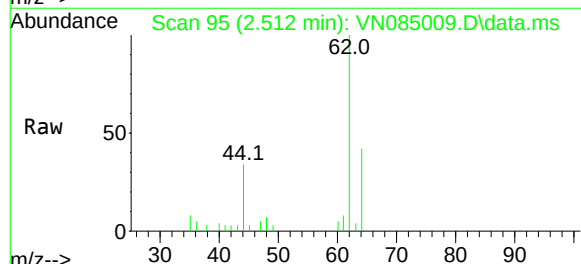
Acq: 22 Nov 2024 12:57

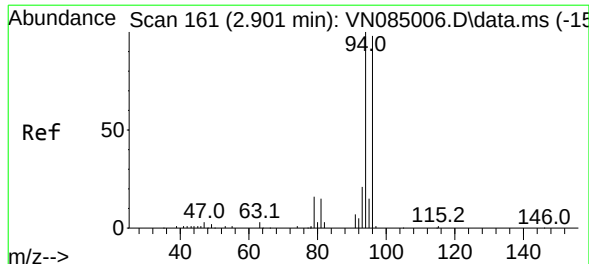
Tgt Ion: 62 Resp: 10043

Ion Ratio Lower Upper

62 100

64 35.1 24.6 36.8





#5

Bromomethane

Concen: 5.543 ug/l

RT: 2.900 min Scan# 161

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 94 Resp: 6052

Ion Ratio Lower Upper

94 100

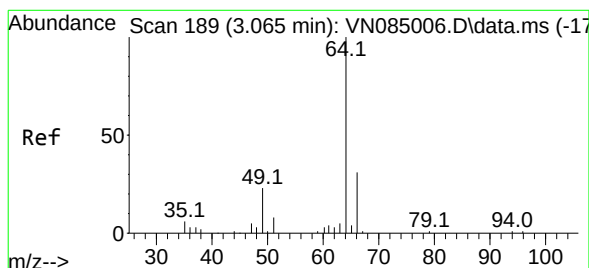
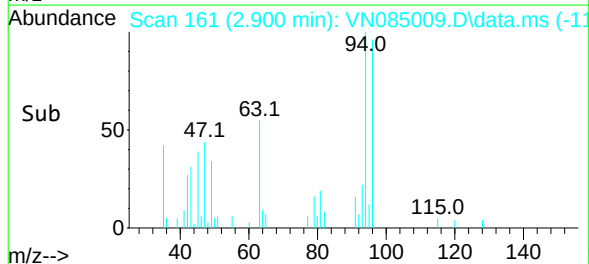
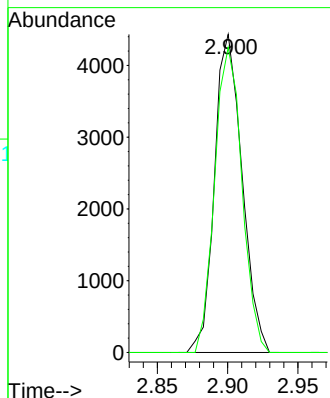
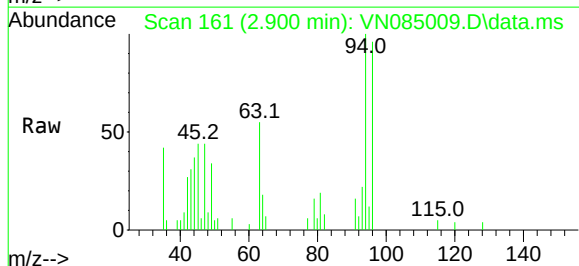
96 95.9 78.7 118.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#6

Chloroethane

Concen: 5.119 ug/l

RT: 3.059 min Scan# 188

Delta R.T. -0.006 min

Lab File: VN085009.D

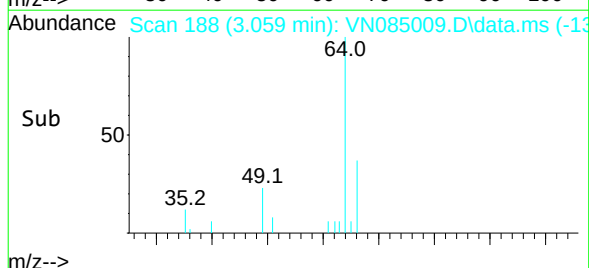
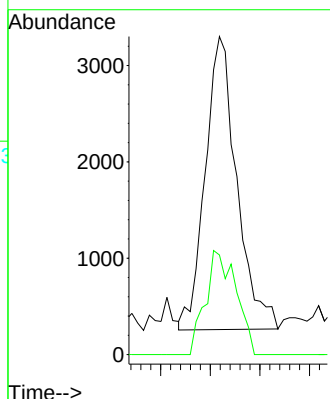
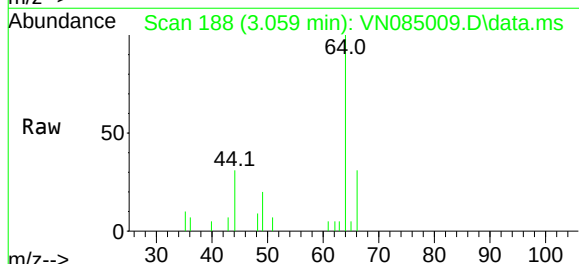
Acq: 22 Nov 2024 12:57

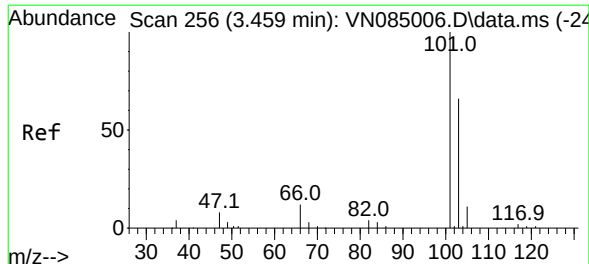
Tgt Ion: 64 Resp: 6721

Ion Ratio Lower Upper

64 100

66 34.1 24.4 36.6





#7

Trichlorofluoromethane

Concen: 5.192 ug/l

RT: 3.465 min Scan# 256

Delta R.T. 0.006 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:101 Resp: 17204

Ion Ratio Lower Upper

101 100

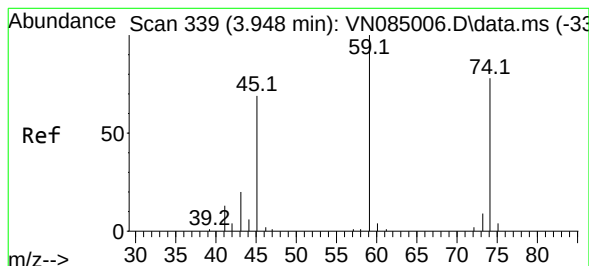
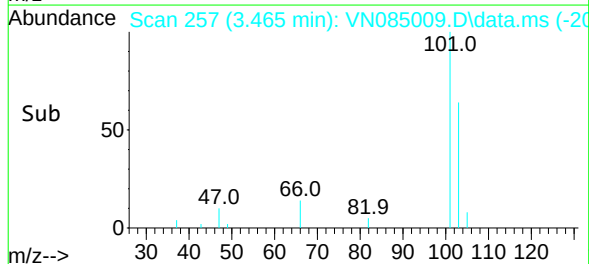
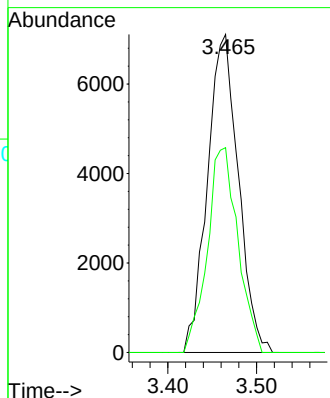
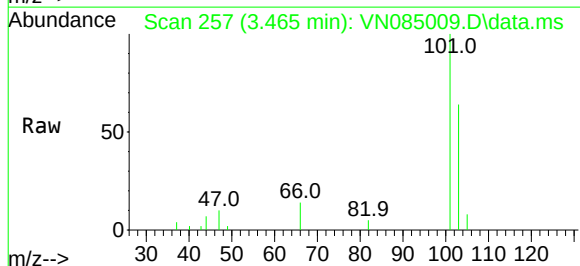
103 64.4 52.6 78.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#8

Diethyl Ether

Concen: 5.050 ug/l

RT: 3.947 min Scan# 339

Delta R.T. -0.000 min

Lab File: VN085009.D

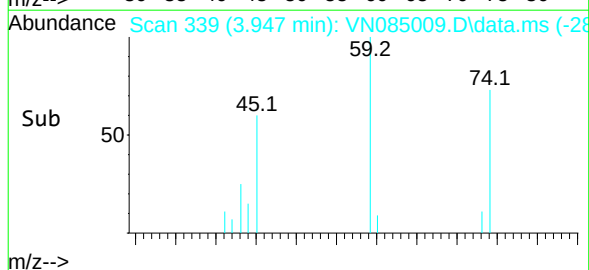
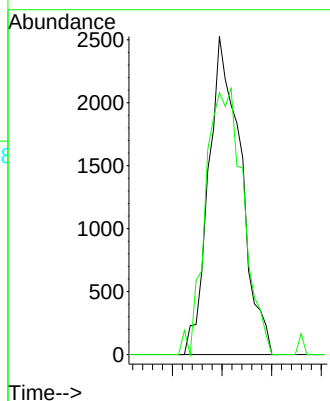
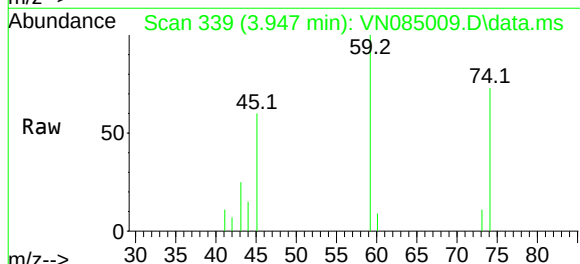
Acq: 22 Nov 2024 12:57

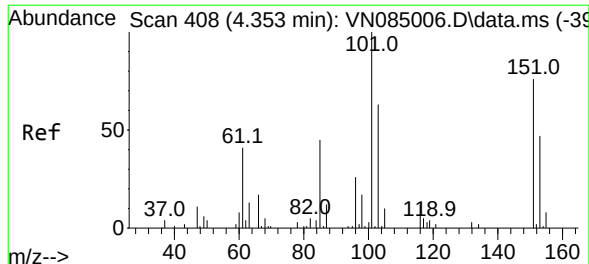
Tgt Ion: 74 Resp: 5696

Ion Ratio Lower Upper

74 100

45 97.8 46.7 140.1





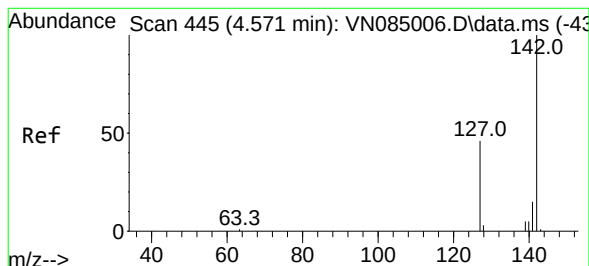
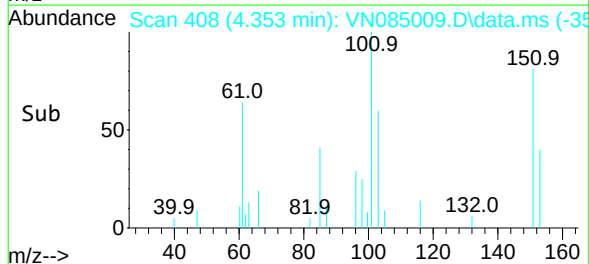
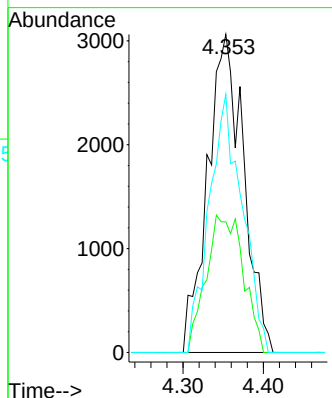
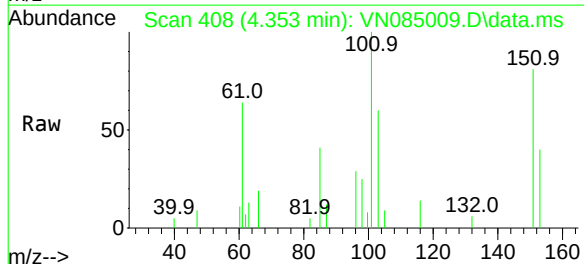
#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.064 ug/l
RT: 4.353 min Scan# 408
Delta R.T. -0.000 min
Lab File: VN085009.D
Acq: 22 Nov 2024 12:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt	Ion	Ratio	Lower	Upper
9518	101	100		
	85	44.7	36.9	55.3
	151	74.5	60.8	91.2

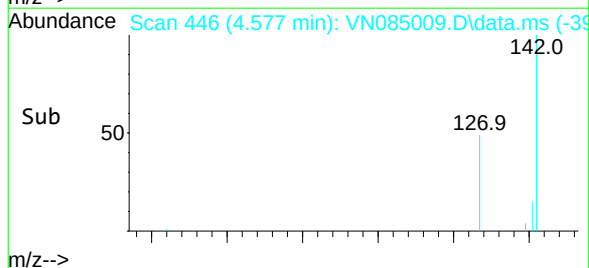
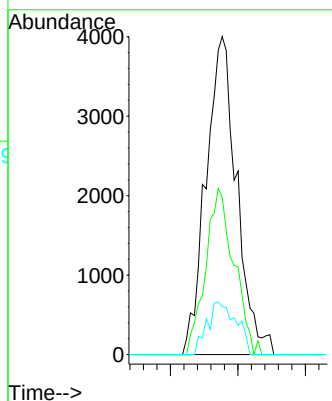
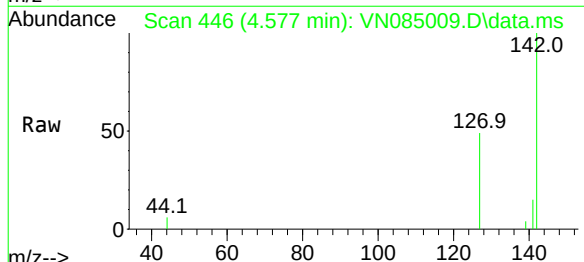
Manual Integrations
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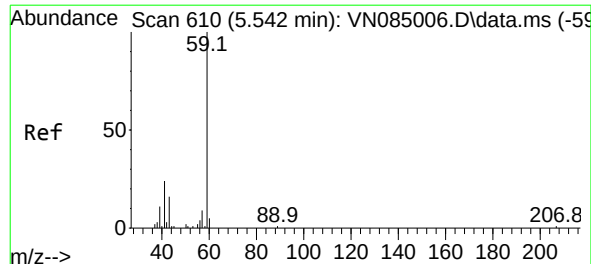
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#10
Methyl Iodide
Concen: 5.077 ug/l
RT: 4.577 min Scan# 446
Delta R.T. 0.006 min
Lab File: VN085009.D
Acq: 22 Nov 2024 12:57

Tgt	Ion	Ratio	Lower	Upper
12631	142	100		
	127	49.4	36.6	54.8
	141	15.0	12.2	18.4





#11

Tert butyl alcohol

Concen: 30.780 ug/l

RT: 5.541 min Scan# 610

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 59 Resp: 9684

Ion Ratio Lower Upper

59 100

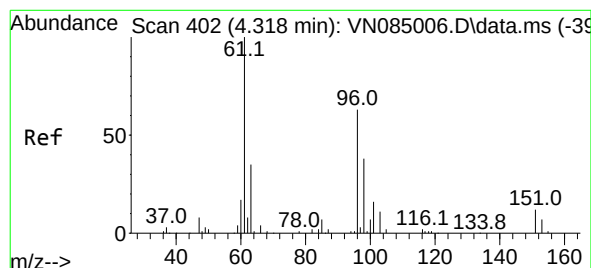
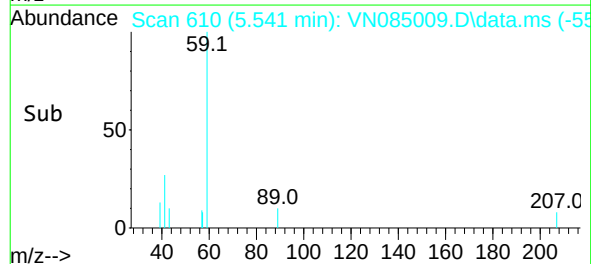
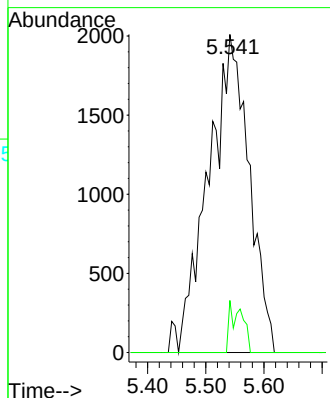
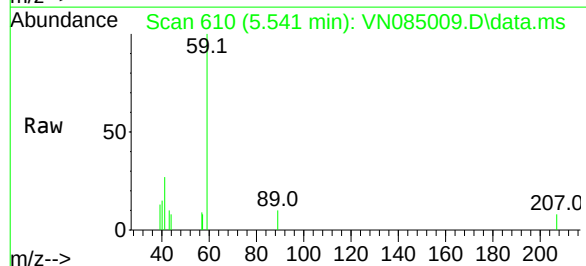
57 5.0 7.4 11.0#

Manual Integrations

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Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#12

1,1-Dichloroethene

Concen: 5.117 ug/l

RT: 4.318 min Scan# 402

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

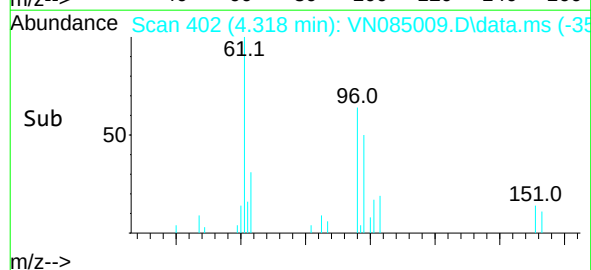
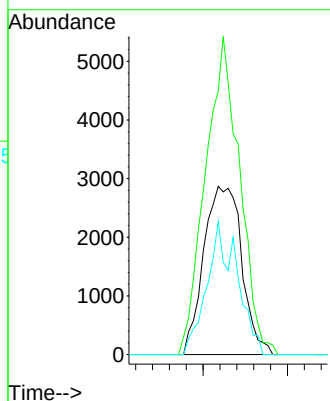
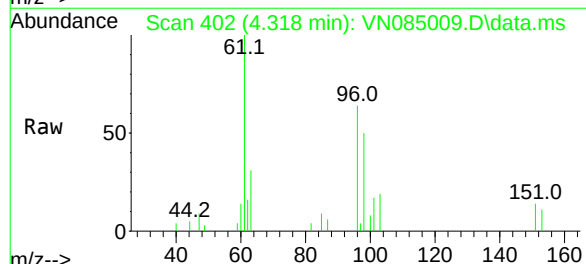
Tgt Ion: 96 Resp: 8977

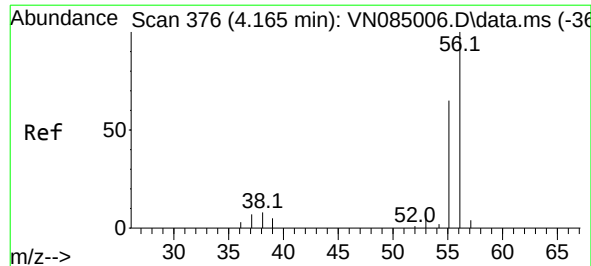
Ion Ratio Lower Upper

96 100

61 156.7 127.8 191.8

98 79.1 49.2 73.8#





#13

Acrolein

Concen: 22.602 ug/l

RT: 4.177 min Scan# 37

Delta R.T. 0.011 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 56 Resp: 4745

Ion Ratio Lower Upper

56 100

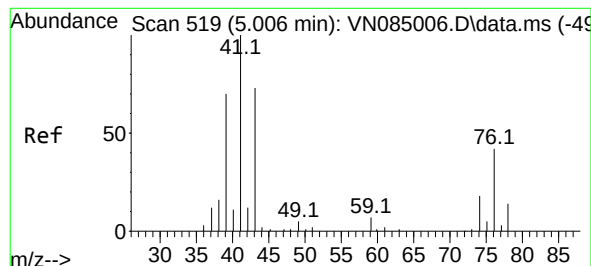
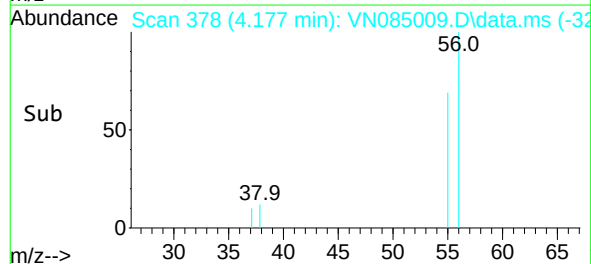
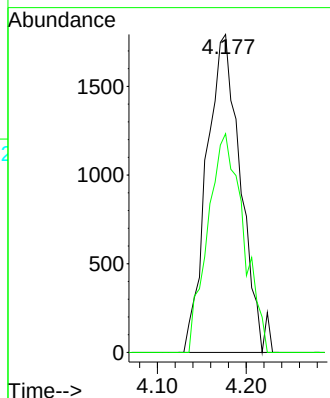
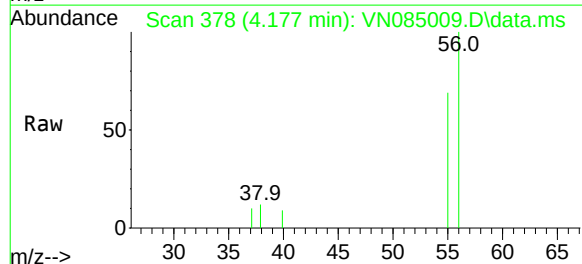
55 72.5 54.5 81.7

Manual Integrations

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Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#14

Allyl chloride

Concen: 4.882 ug/l

RT: 5.006 min Scan# 519

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

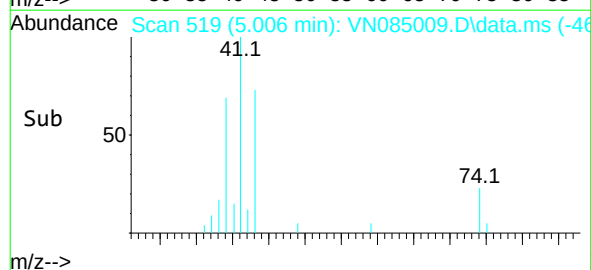
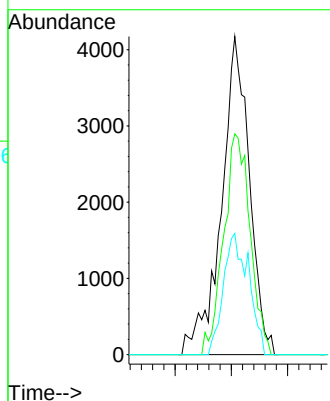
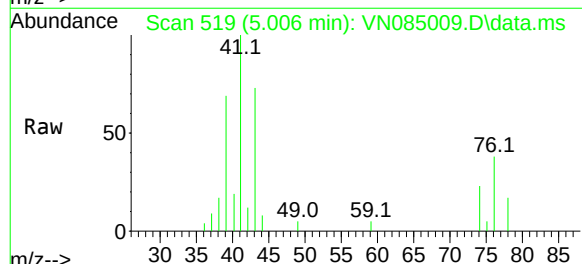
Tgt Ion: 41 Resp: 14439

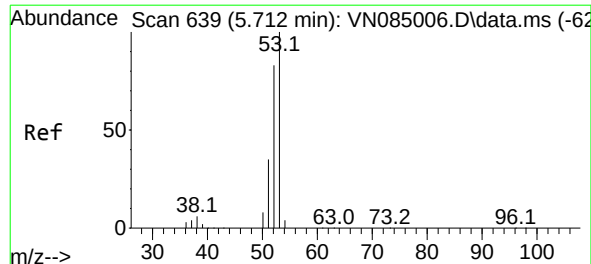
Ion Ratio Lower Upper

41 100

39 65.5 53.8 80.8

76 34.3 29.3 43.9





#15

Acrylonitrile

Concen: 25.403 ug/l

RT: 5.712 min Scan# 639

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

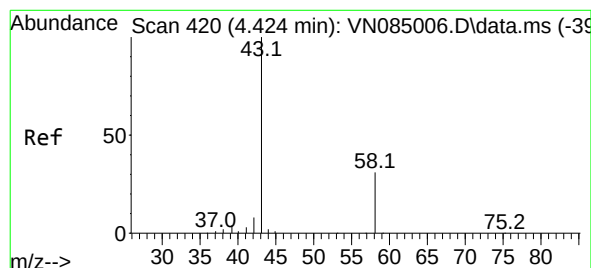
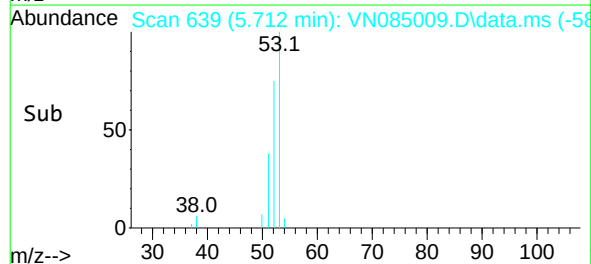
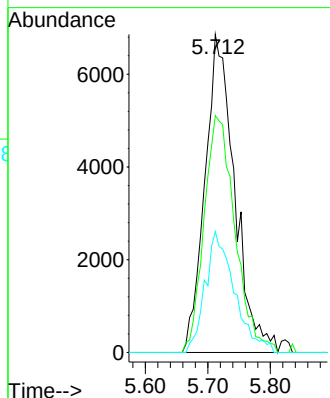
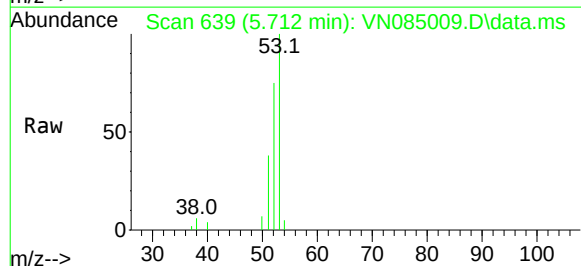
ClientSampleId :

VSTDIC005

Tgt Ion:	53	Resp:	22627
Ion	Ratio	Lower	Upper
53	100		
52	77.5	65.5	98.3
51	37.5	28.4	42.6

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Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#16

Acetone

Concen: 23.525 ug/l

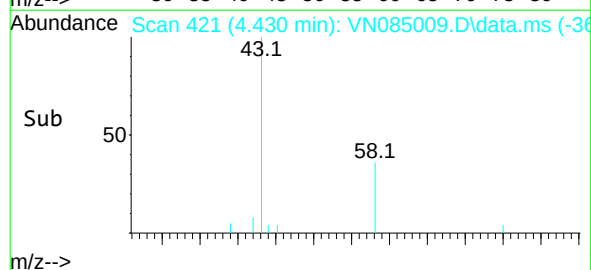
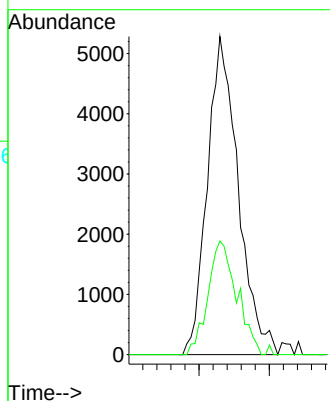
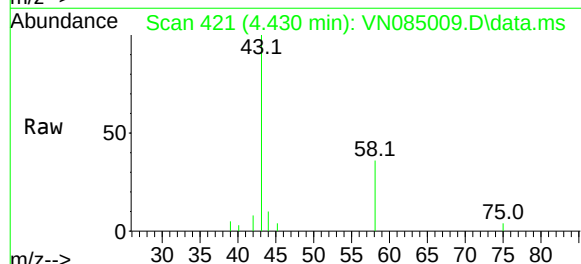
RT: 4.430 min Scan# 421

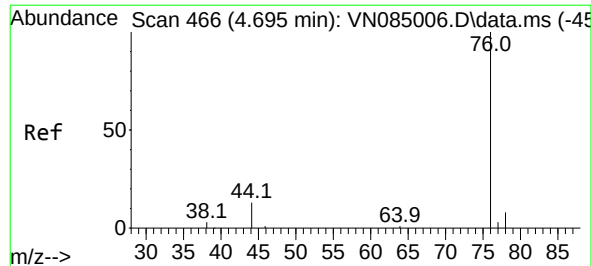
Delta R.T. 0.006 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Tgt Ion:	43	Resp:	16131
Ion	Ratio	Lower	Upper
43	100		
58	35.7	25.4	38.2





#17

Carbon Disulfide

Concen: 5.074 ug/l

RT: 4.694 min Scan# 466

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 76 Resp: 26272

Ion Ratio Lower Upper

76 100

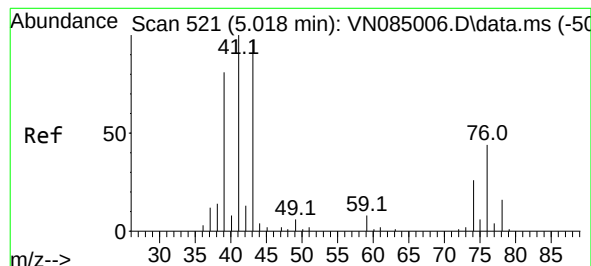
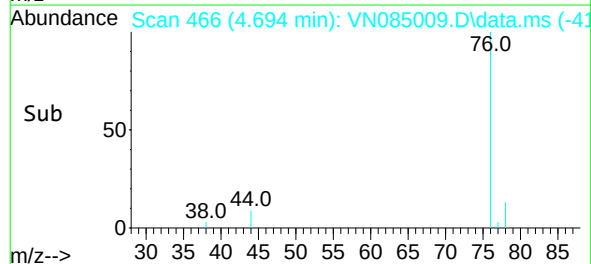
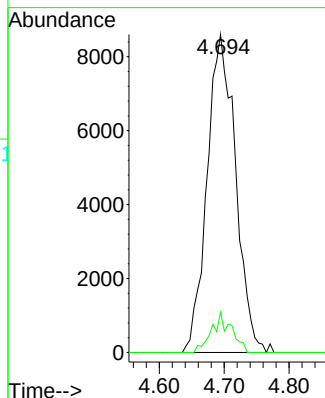
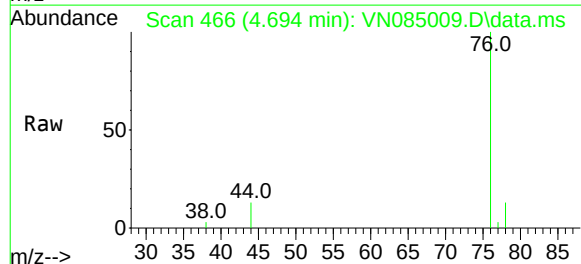
78 12.7 6.5 9.7#

Manual Integrations

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Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#18

Methyl Acetate

Concen: 5.429 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN085009.D

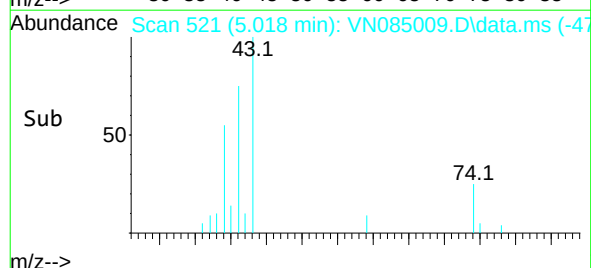
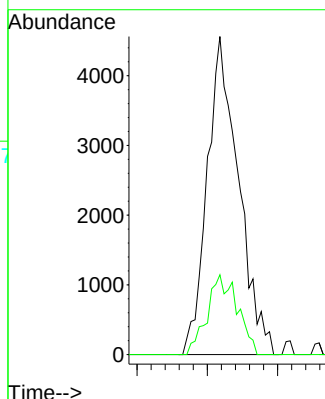
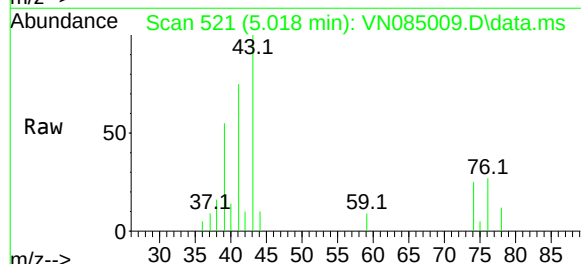
Acq: 22 Nov 2024 12:57

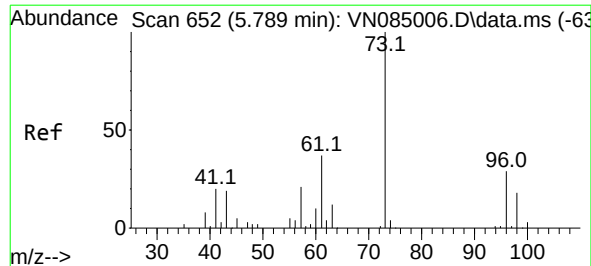
Tgt Ion: 43 Resp: 14139

Ion Ratio Lower Upper

43 100

74 24.2 20.1 30.1





#19

Methyl tert-butyl Ether

Concen: 4.829 ug/l

RT: 5.800 min Scan# 65

Delta R.T. 0.011 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 73 Resp: 27679

Ion Ratio Lower Upper

73 100

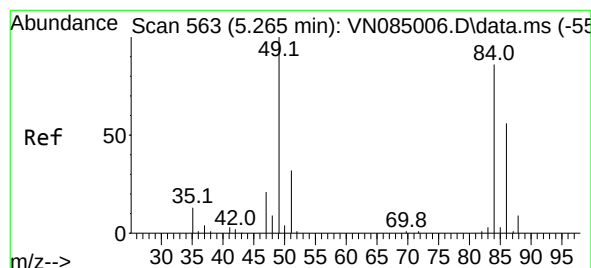
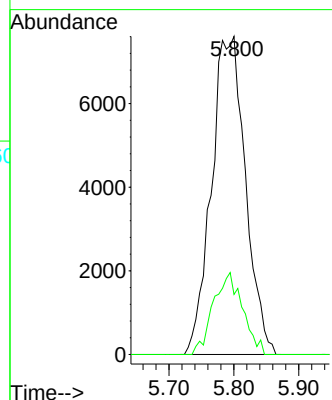
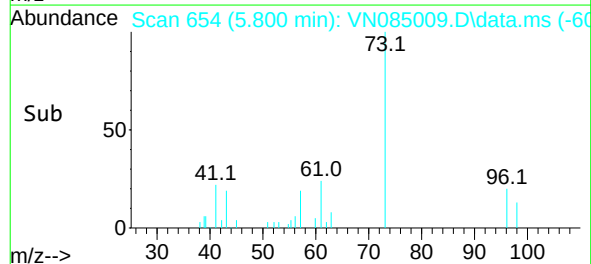
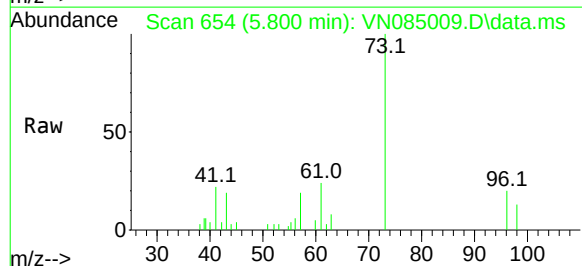
57 18.9 17.0 25.4

Manual Integrations

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Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#20

Methylene Chloride

Concen: 4.975 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.006 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Tgt Ion: 84 Resp: 10410

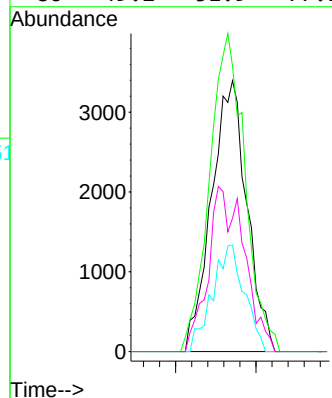
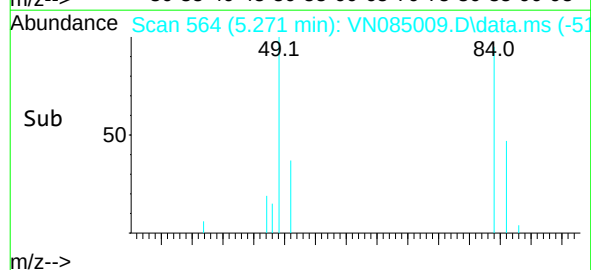
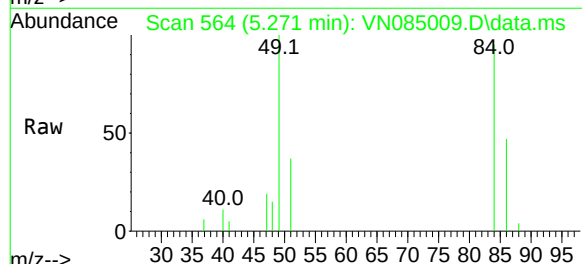
Ion Ratio Lower Upper

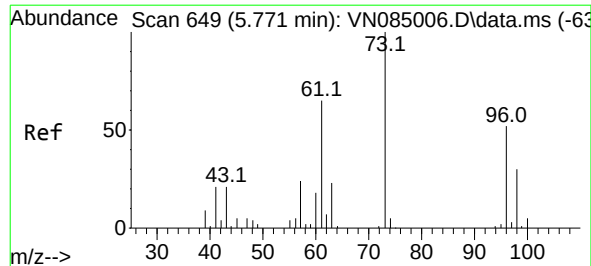
84 100

49 105.4 92.7 139.1

51 39.4 29.4 44.2

86 49.2 51.9 77.9#





#21

trans-1,2-Dichloroethene

Concen: 5.085 ug/l

RT: 5.765 min Scan# 64

Delta R.T. -0.006 min

Lab File: VN085009.D

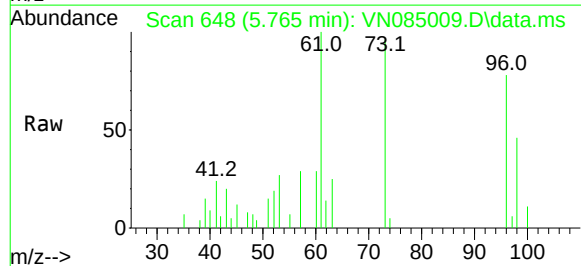
Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005



Tgt Ion: 96 Resp: 9388

Ion Ratio Lower Upper

96 100

61 127.5 100.7 151.1

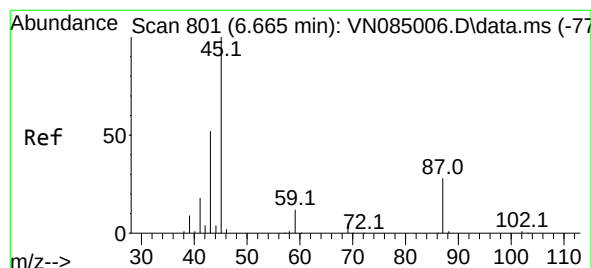
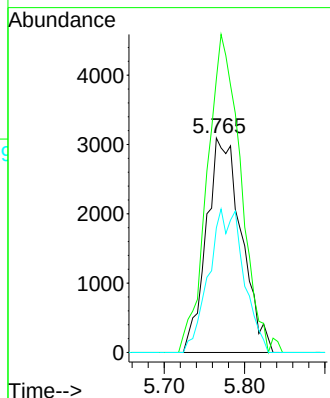
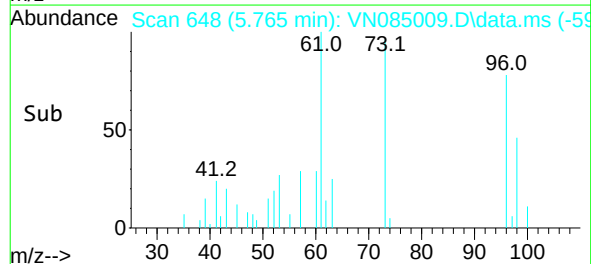
98 58.1 45.8 68.6

Manual Integrations

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Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#22

Diisopropyl ether

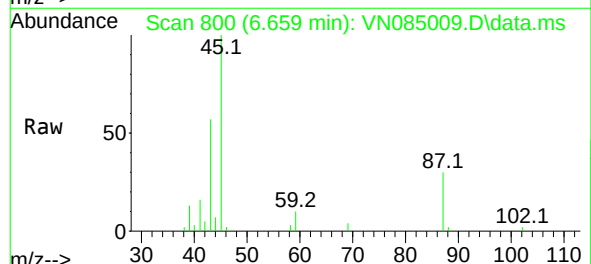
Concen: 5.043 ug/l

RT: 6.659 min Scan# 800

Delta R.T. -0.006 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57



Tgt Ion: 45 Resp: 30018

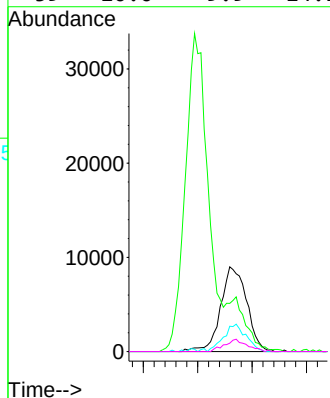
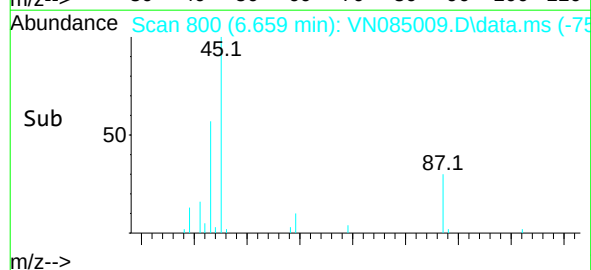
Ion Ratio Lower Upper

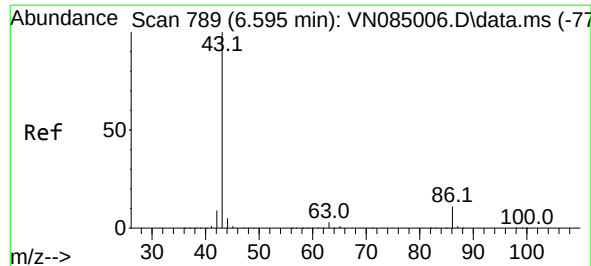
45 100

43 54.4 42.7 64.1

87 29.9 22.6 34.0

59 10.0 9.9 14.9





#23

Vinyl Acetate

Concen: 23.745 ug/l

RT: 6.594 min Scan# 789

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 97507

Ion Ratio Lower Upper

43 100

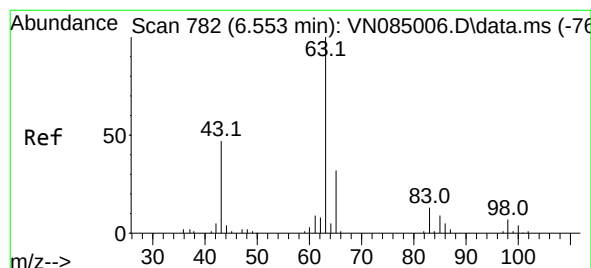
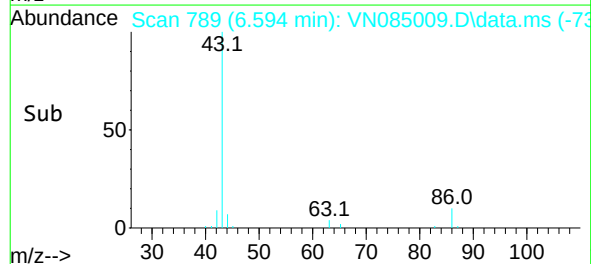
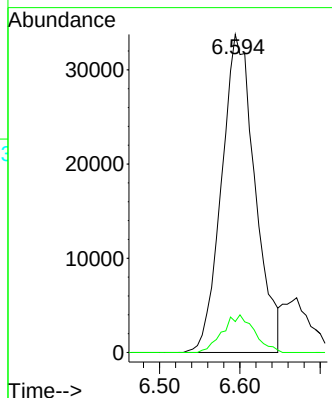
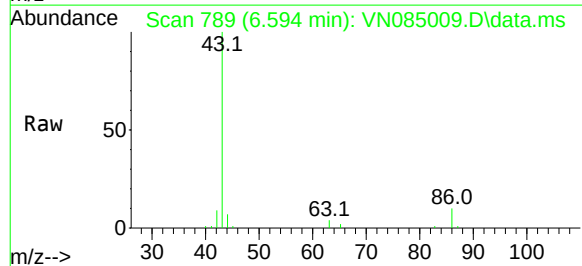
86 9.7 8.9 13.3

Manual Integrations

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Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#24

1,1-Dichloroethane

Concen: 5.066 ug/l

RT: 6.559 min Scan# 783

Delta R.T. 0.006 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

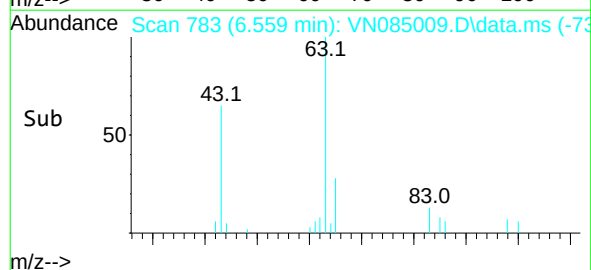
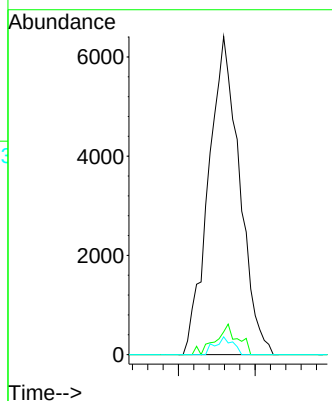
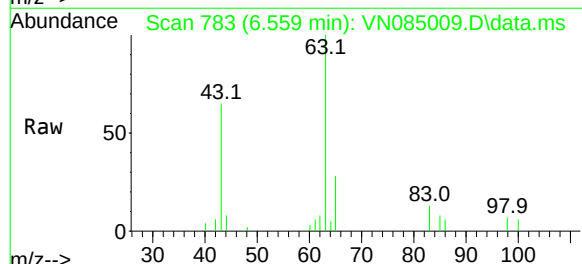
Tgt Ion: 63 Resp: 18044

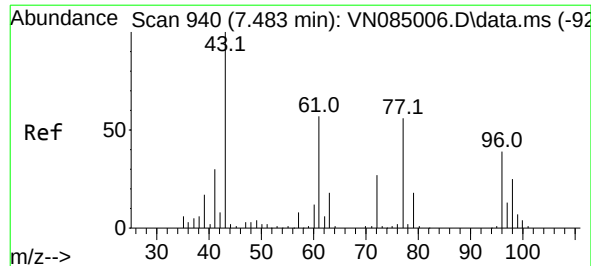
Ion Ratio Lower Upper

63 100

98 7.1 3.3 9.8

100 5.6 2.2 6.6





#25

2-Butanone

Concen: 24.174 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 27100

Ion Ratio Lower Upper

43 100

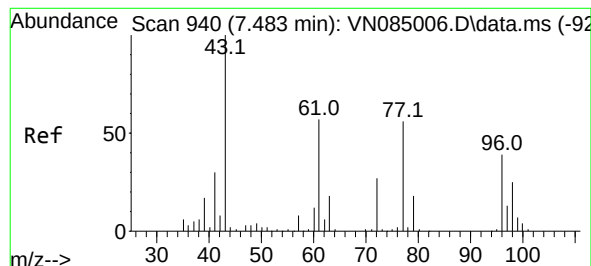
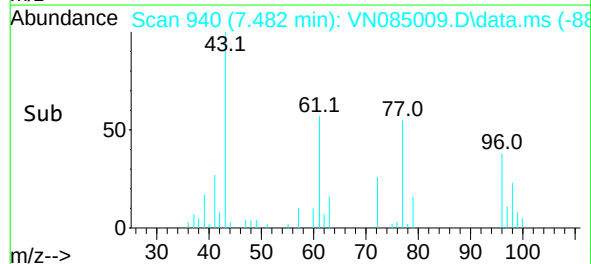
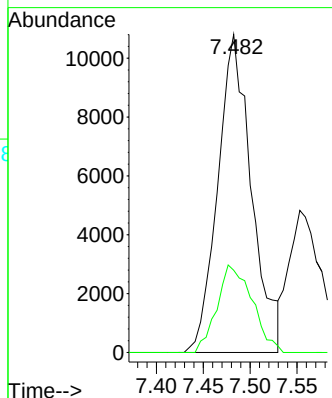
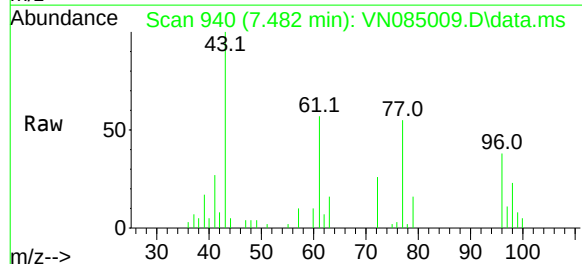
72 25.9 21.4 32.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#26

2,2-Dichloropropane

Concen: 4.968 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN085009.D

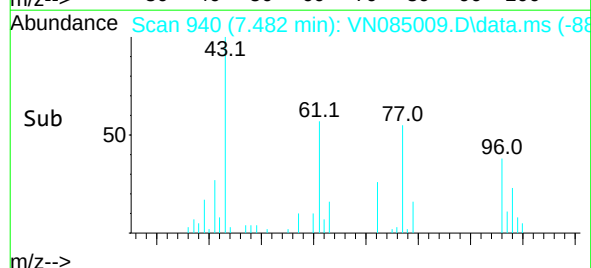
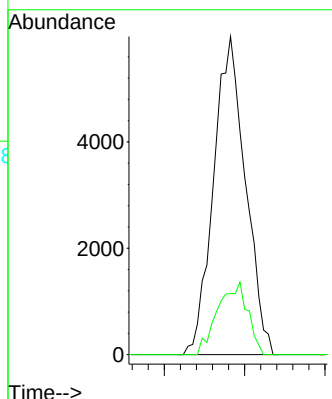
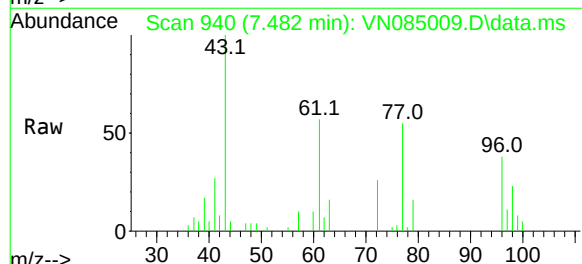
Acq: 22 Nov 2024 12:57

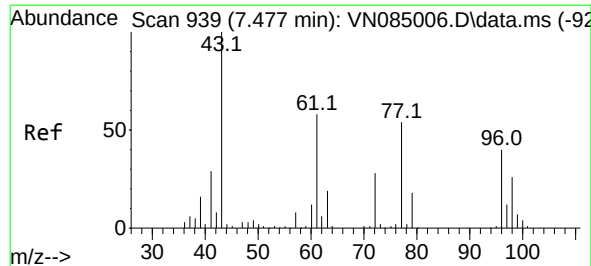
Tgt Ion: 77 Resp: 16525

Ion Ratio Lower Upper

77 100

97 21.2 10.9 32.7





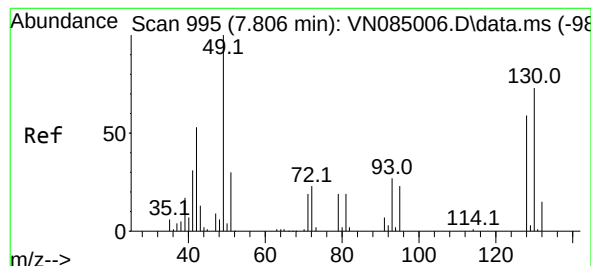
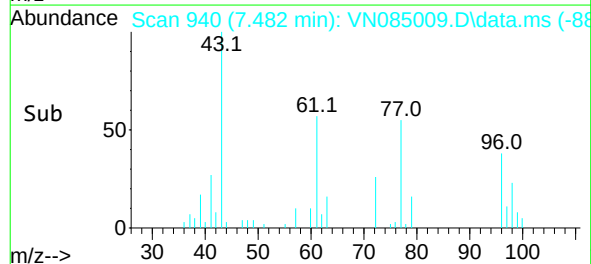
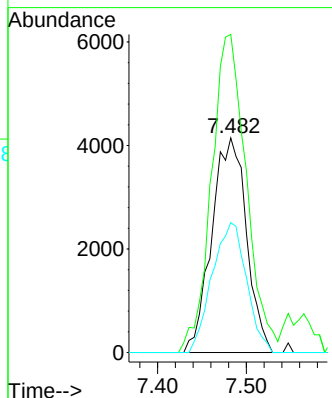
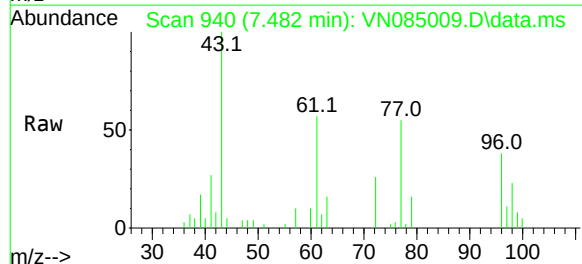
#27
cis-1,2-Dichloroethene
Concen: 5.055 ug/l
RT: 7.482 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN085009.D
Acq: 22 Nov 2024 12:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
96	100		
61	148.7	0.0	291.6
98	59.8	0.0	129.8

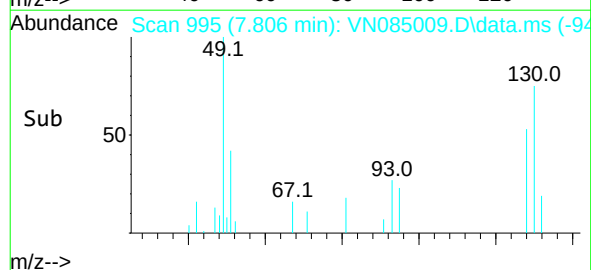
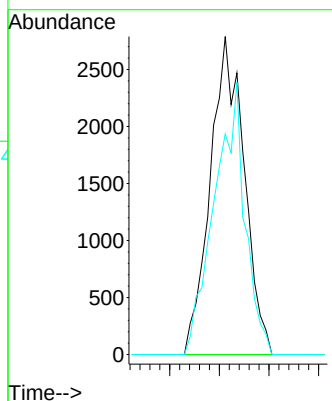
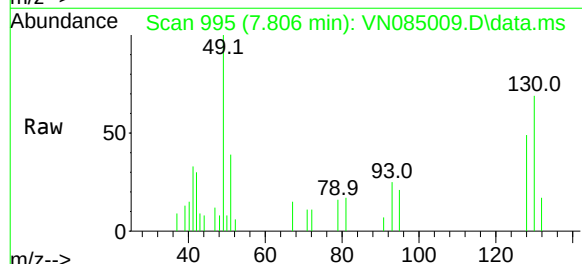
Manual Integrations
APPROVED

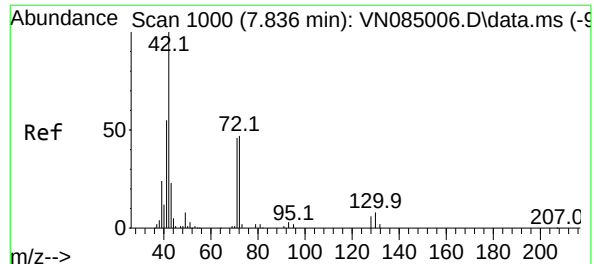
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#28
Bromochloromethane
Concen: 4.903 ug/l
RT: 7.806 min Scan# 995
Delta R.T. -0.000 min
Lab File: VN085009.D
Acq: 22 Nov 2024 12:57

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.0
130	77.4	60.6	90.8





#29

Tetrahydrofuran

Concen: 25.104 ug/l

RT: 7.841 min Scan# 1001

Delta R.T. 0.006 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

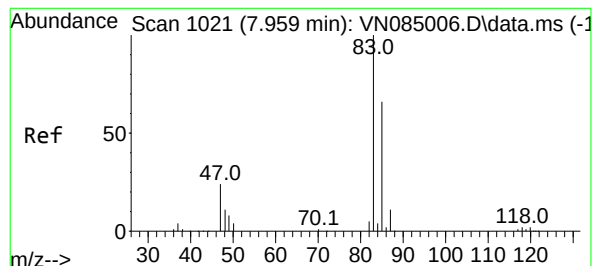
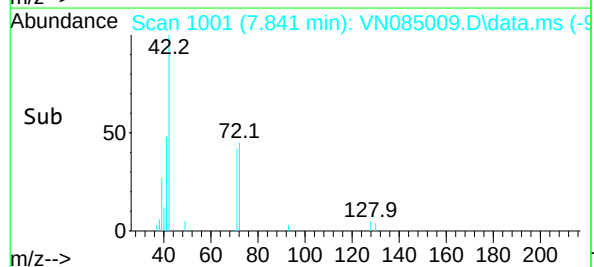
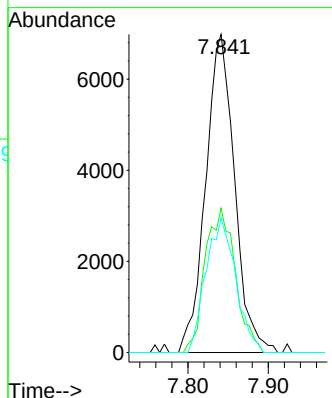
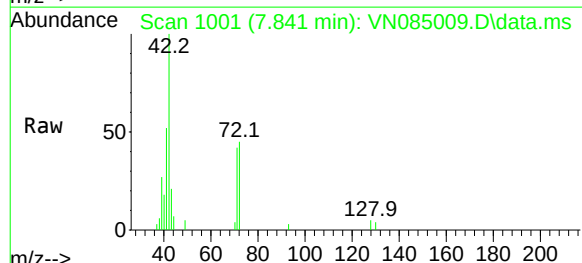
ClientSampleId :

VSTDICC005

Tgt Ion:	42	Resp:	17501
Ion	Ratio	Lower	Upper
42	100		
72	47.1	37.0	55.4
71	43.6	35.0	52.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#30

Chloroform

Concen: 4.971 ug/l

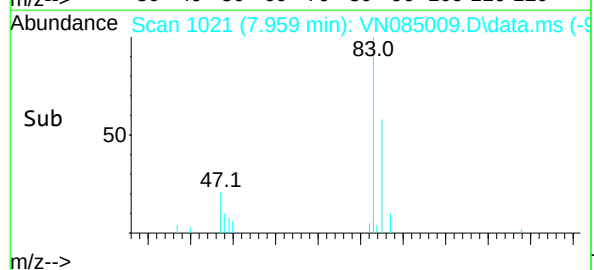
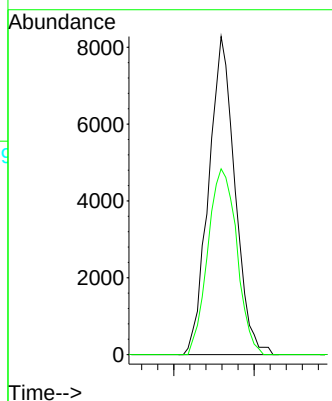
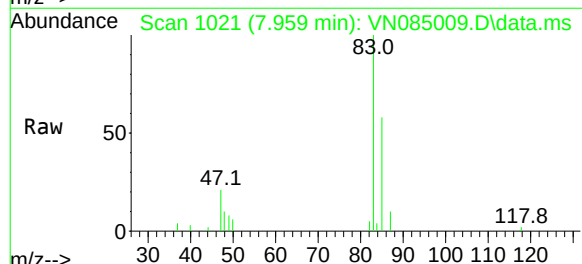
RT: 7.959 min Scan# 1021

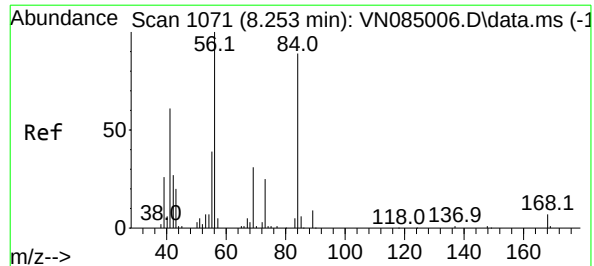
Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Tgt Ion:	83	Resp:	18837
Ion	Ratio	Lower	Upper
83	100		
85	58.4	52.6	78.8





#31

Cyclohexane

Concen: 5.751 ug/l

RT: 8.247 min Scan# 1070

Delta R.T. -0.006 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 18036

Ion Ratio Lower Upper

56 100

69 35.7 24.6 36.8

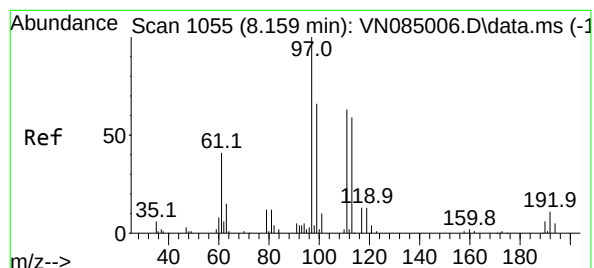
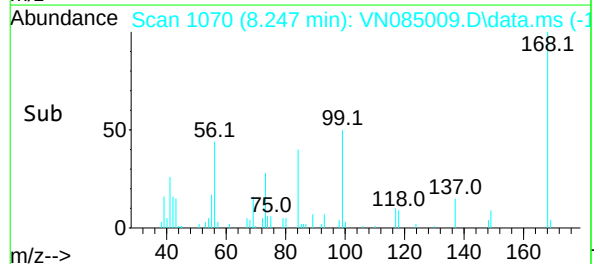
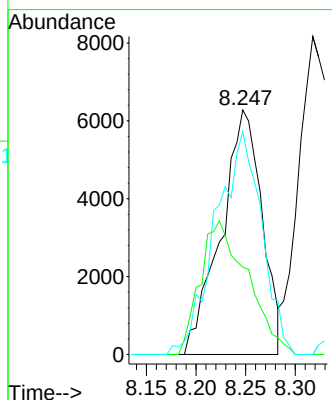
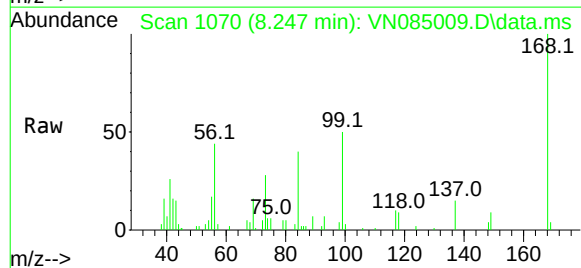
84 88.0 71.4 107.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#32

1,1,1-Trichloroethane

Concen: 4.851 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

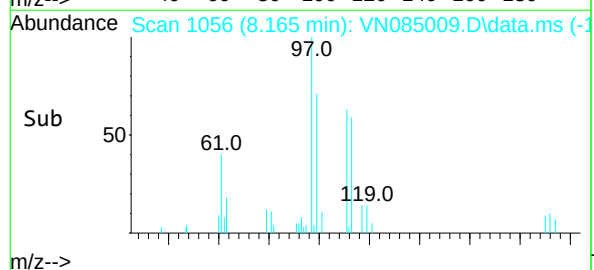
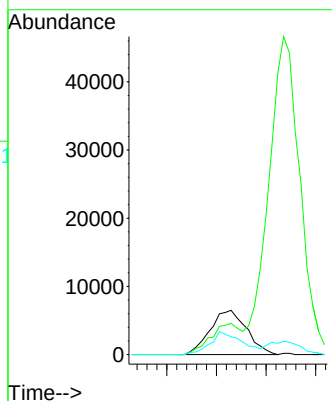
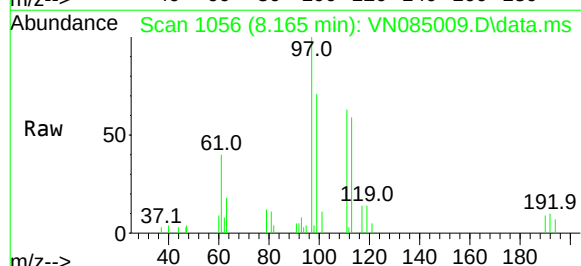
Tgt Ion: 97 Resp: 16611

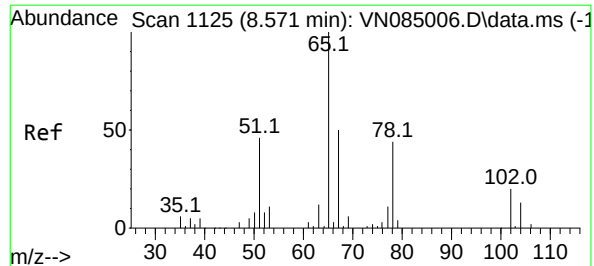
Ion Ratio Lower Upper

97 100

99 59.1 51.0 76.4

61 45.2 36.2 54.2





#33

1,2-Dichloroethane-d4

Concen: 5.087 ug/l

RT: 8.571 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 65 Resp: 11977

Ion Ratio Lower Upper

65 100

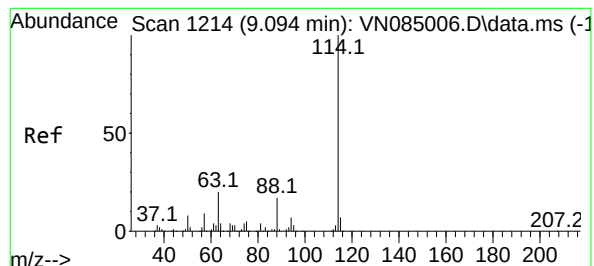
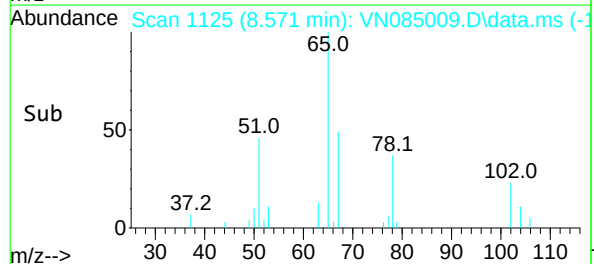
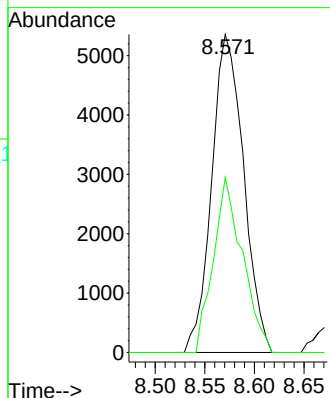
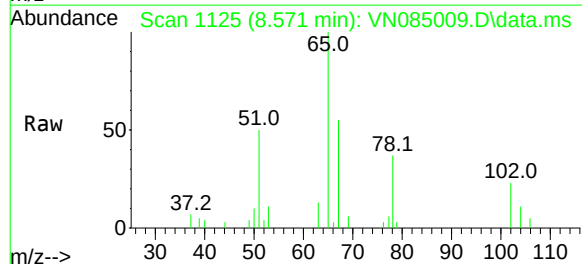
67 50.3 0.0 105.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

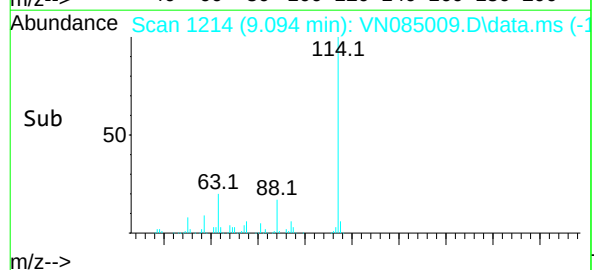
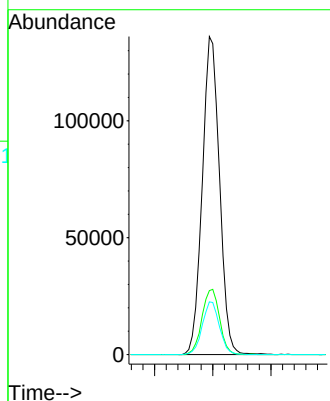
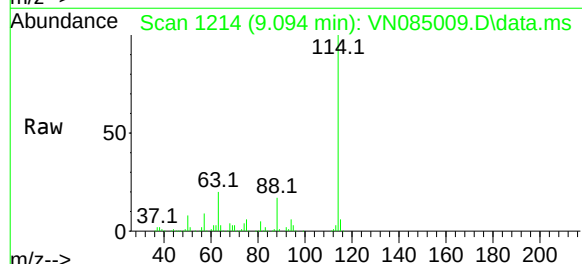
Tgt Ion:114 Resp: 280025

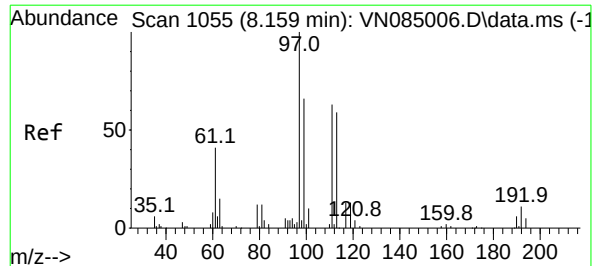
Ion Ratio Lower Upper

114 100

63 20.1 0.0 41.0

88 16.6 0.0 34.8





#35

Dibromofluoromethane

Concen: 5.082 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

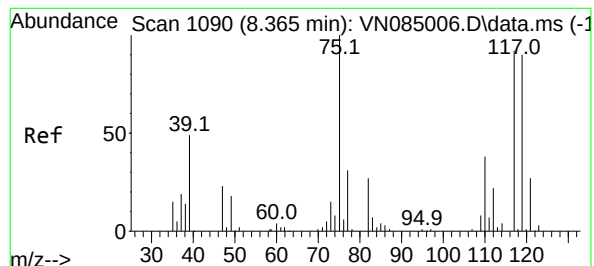
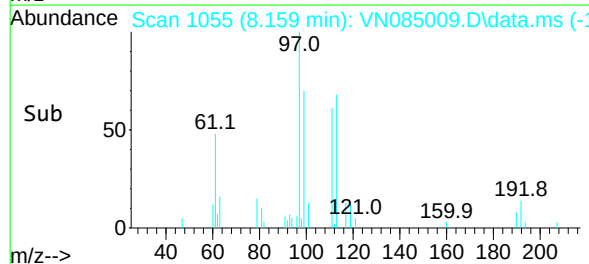
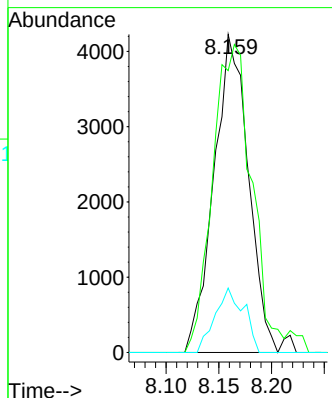
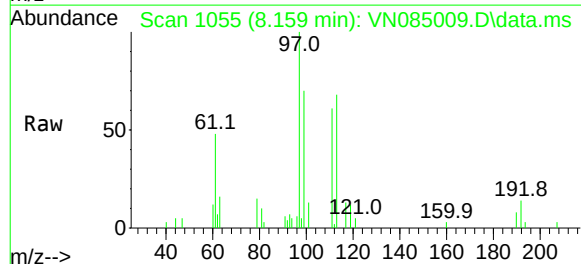
ClientSampleId :

VSTDIC005

Tgt Ion:	113	Resp:	9597
Ion	Ratio	Lower	Upper
113	100		
111	109.7	82.0	123.0
192	17.0	14.8	22.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#36

1,1-Dichloropropene

Concen: 5.140 ug/l

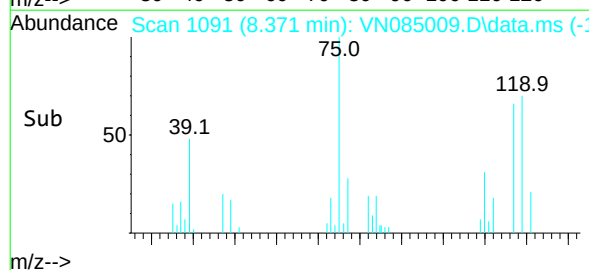
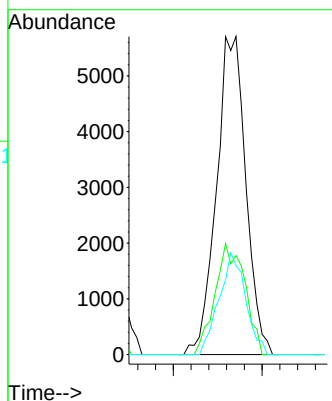
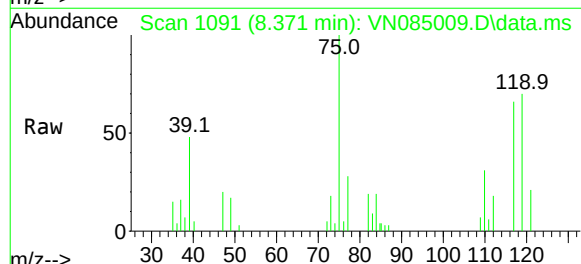
RT: 8.371 min Scan# 1091

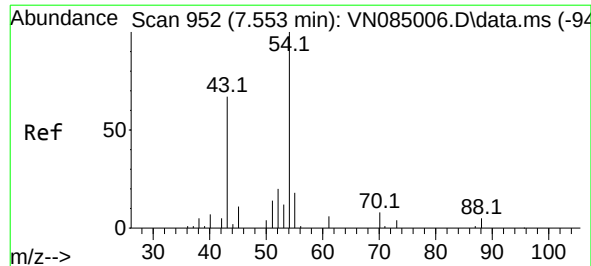
Delta R.T. 0.006 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Tgt Ion:	75	Resp:	13147
Ion	Ratio	Lower	Upper
75	100		
110	35.2	17.2	51.6
77	28.9	24.2	36.4





#37

Ethyl Acetate

Concen: 5.114 ug/l

RT: 7.553 min Scan# 95

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

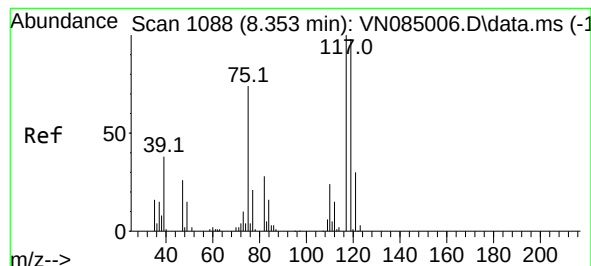
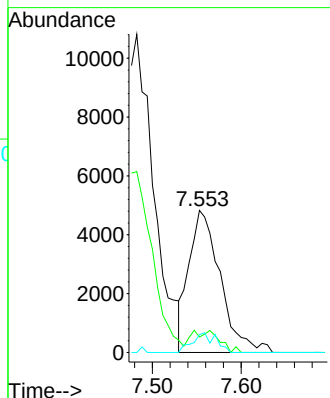
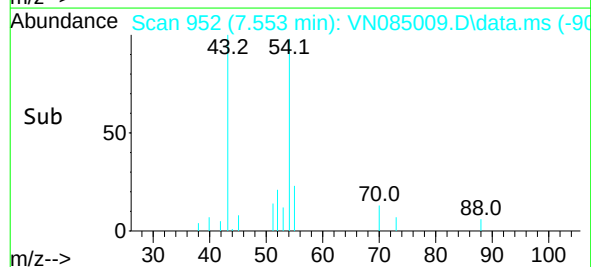
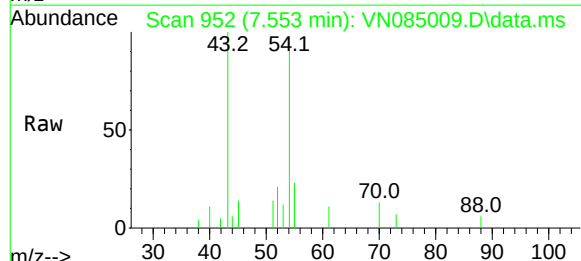
ClientSampleId :

VSTDICC005

Tgt Ion:	43	Resp:	11891
Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.7	17.5
70	10.4	9.3	13.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#38

Carbon Tetrachloride

Concen: 5.022 ug/l

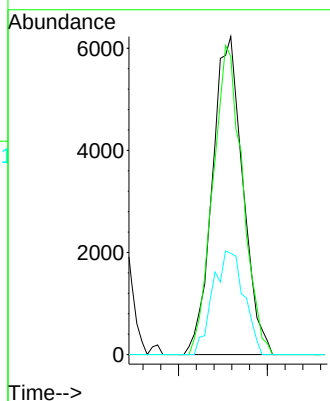
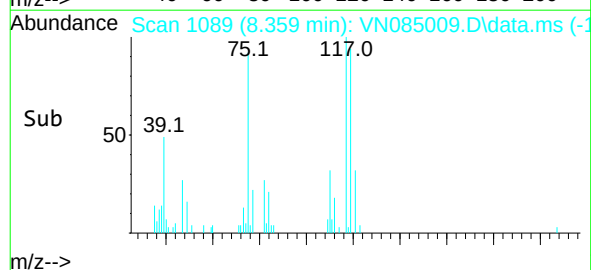
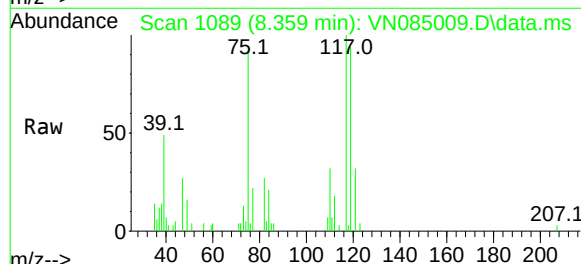
RT: 8.359 min Scan# 1089

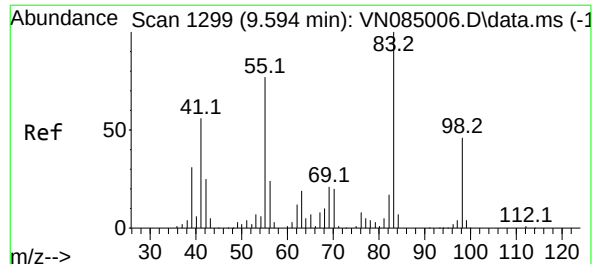
Delta R.T. 0.006 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Tgt Ion:	117	Resp:	14827
Ion	Ratio	Lower	Upper
117	100		
119	93.7	78.6	117.8
121	31.8	24.2	36.2





#39

Methylcyclohexane

Concen: 4.945 ug/l

RT: 9.594 min Scan# 1299

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 83 Resp: 13143

Ion Ratio Lower Upper

83 100

55 72.1 61.8 92.6

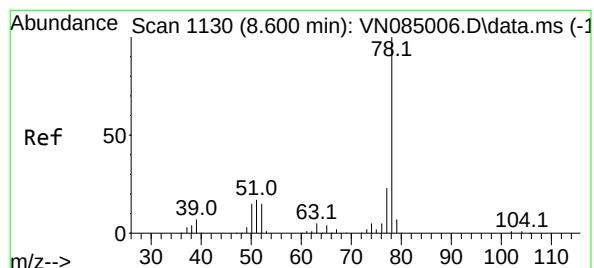
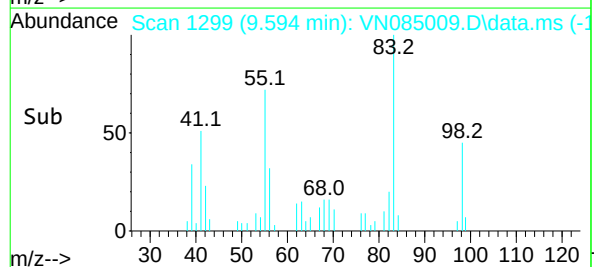
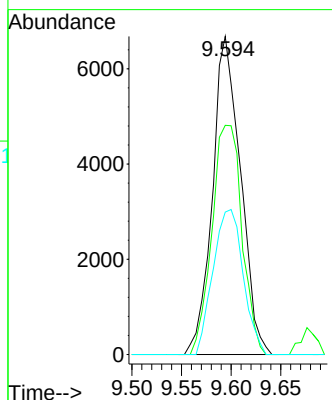
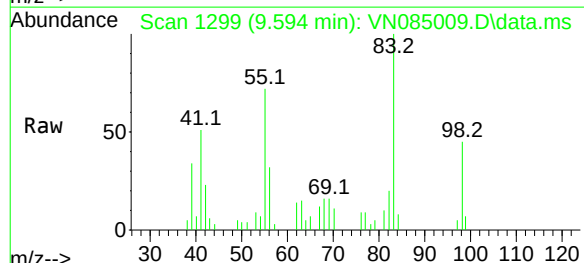
98 44.8 37.0 55.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#40

Benzene

Concen: 5.026 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN085009.D

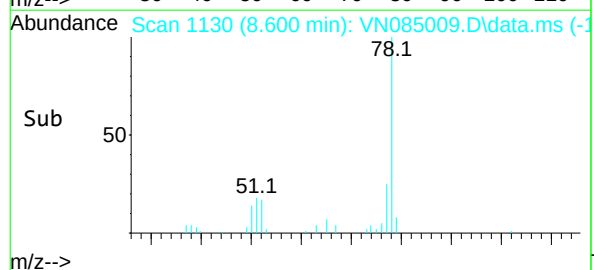
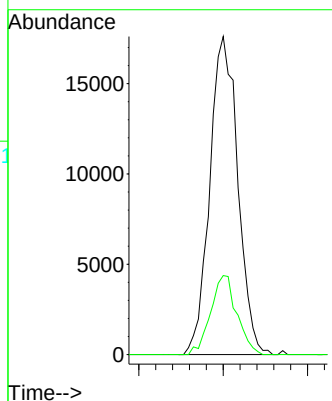
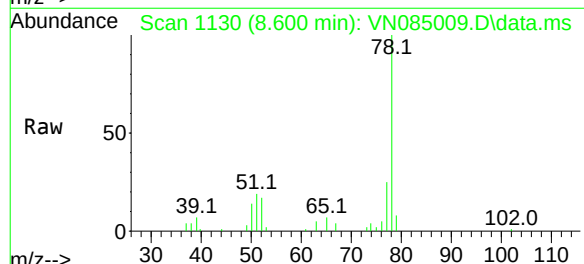
Acq: 22 Nov 2024 12:57

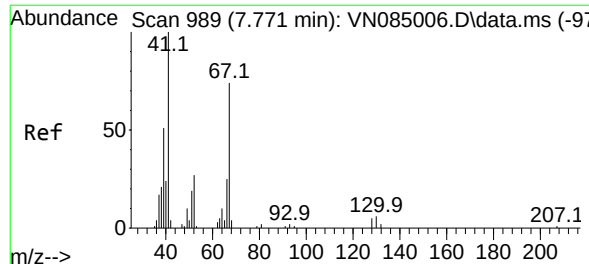
Tgt Ion: 78 Resp: 40657

Ion Ratio Lower Upper

78 100

77 24.8 18.5 27.7





#41

Methacrylonitrile

Concen: 4.417 ug/l

RT: 7.782 min Scan# 991

Delta R.T. 0.011 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

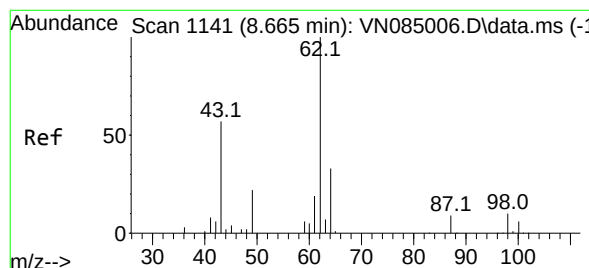
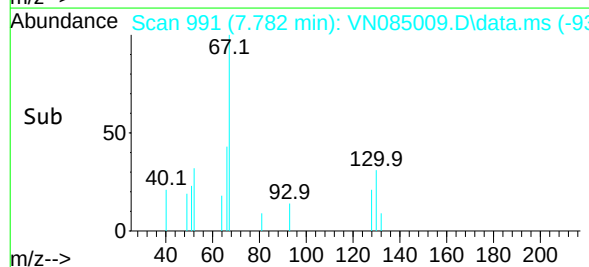
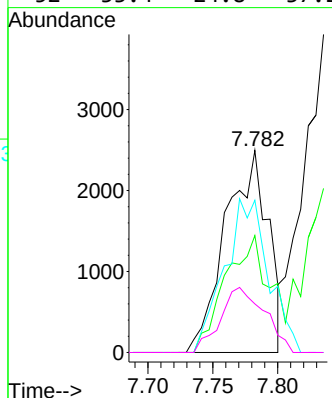
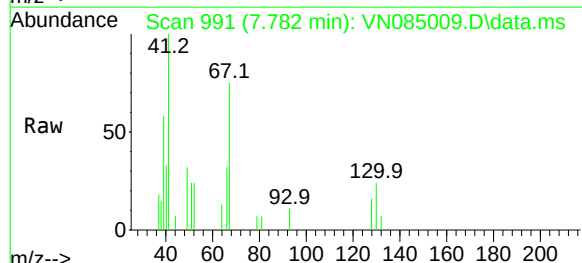
VSTDICC005

Tgt Ion:	41	Resp:	5687
Ion	Ratio	Lower	Upper
41	100		
39	60.9	42.6	63.8
67	78.7	59.9	89.9
52	33.4	24.8	37.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#42

1,2-Dichloroethane

Concen: 5.356 ug/l

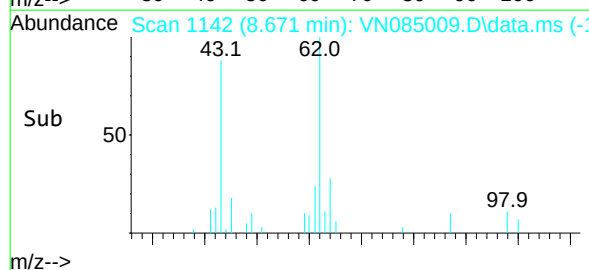
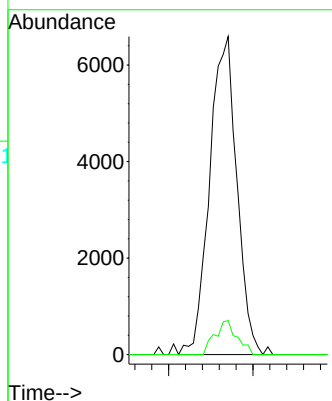
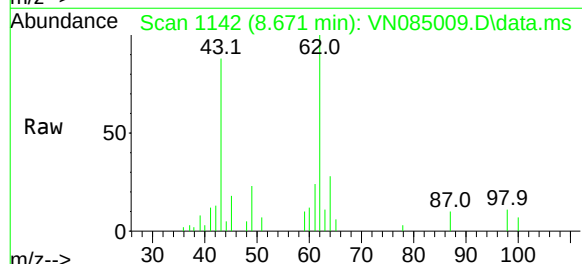
RT: 8.671 min Scan# 1142

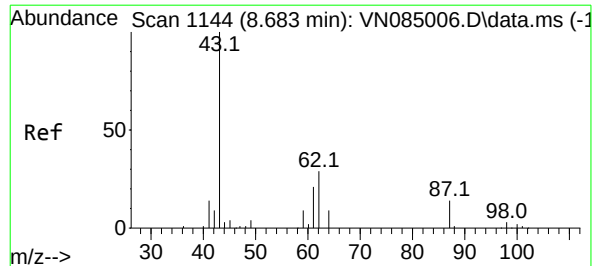
Delta R.T. 0.006 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Tgt Ion:	62	Resp:	14824
Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	18.2





#43

Isopropyl Acetate

Concen: 4.947 ug/l

RT: 8.688 min Scan# 1144

Delta R.T. 0.006 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

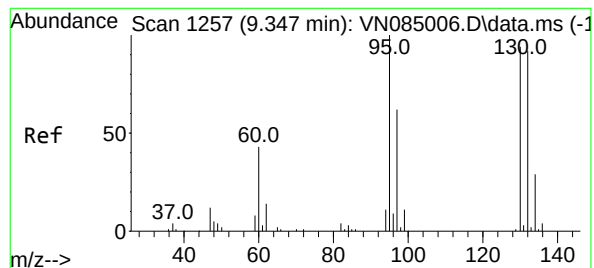
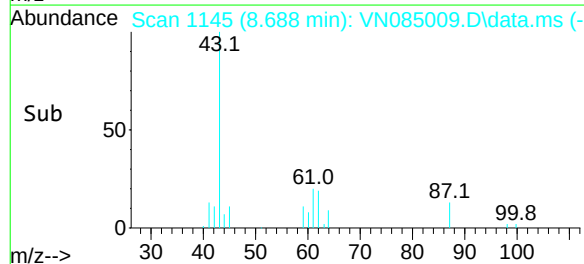
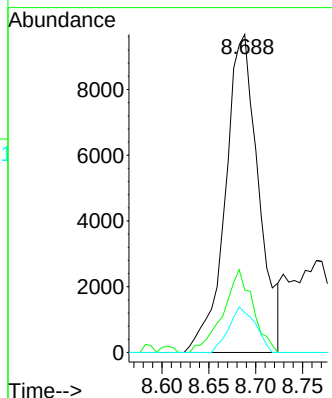
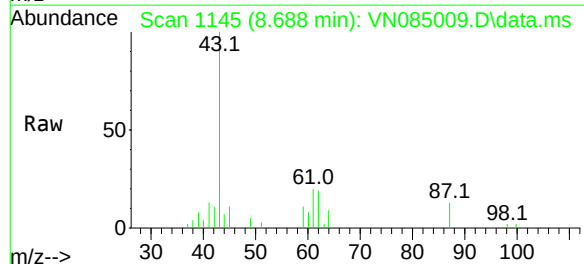
ClientSampleId :

VSTDIC005

Tgt Ion:	43	Resp:	23894
Ion	Ratio	Lower	Upper
43	100		
61	23.4	20.6	30.8
87	11.4	11.0	16.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#44

Trichloroethene

Concen: 5.165 ug/l

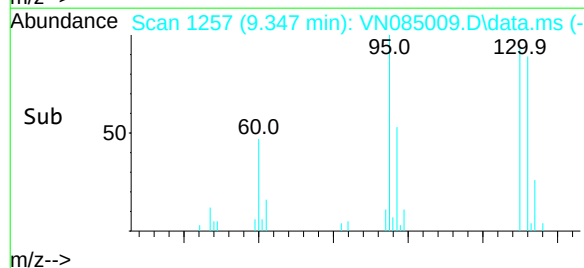
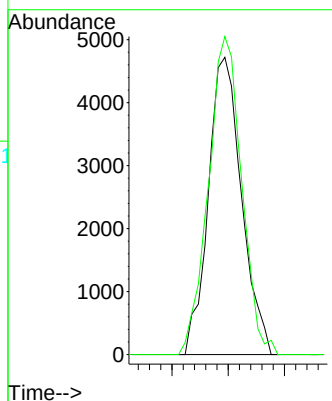
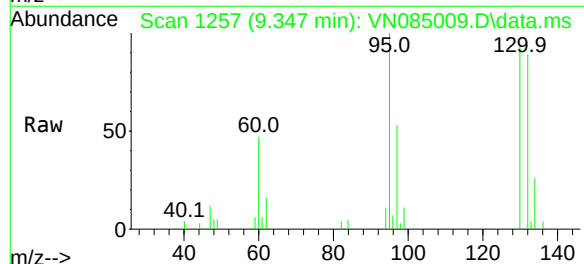
RT: 9.347 min Scan# 1257

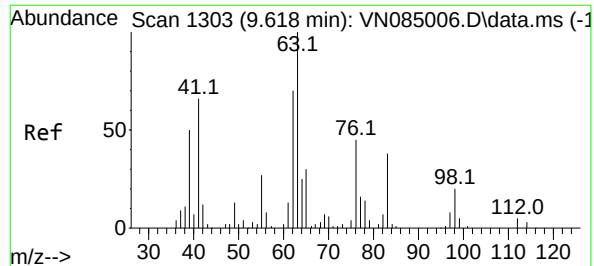
Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Tgt Ion:	130	Resp:	9711
Ion	Ratio	Lower	Upper
130	100		
95	107.0	0.0	213.4





#45

1,2-Dichloropropane

Concen: 4.948 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 63 Resp: 9859

Ion Ratio Lower Upper

63 100

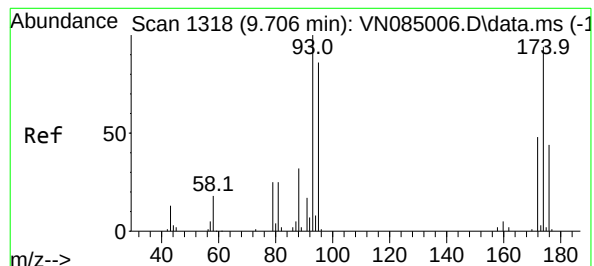
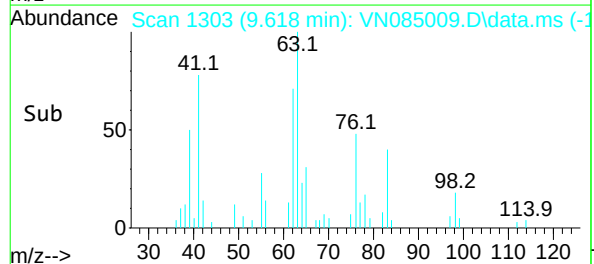
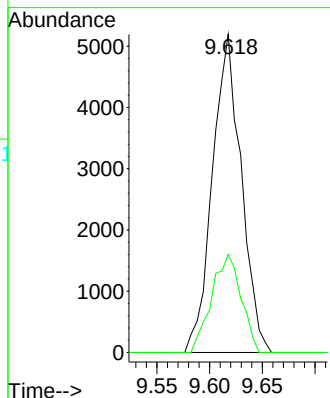
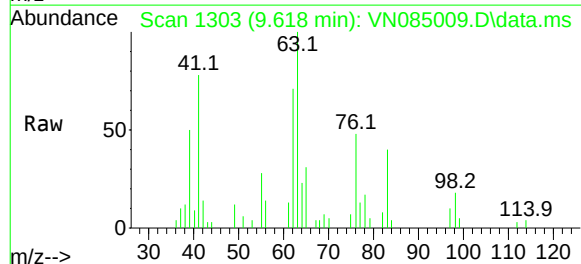
65 30.8 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#46

Dibromomethane

Concen: 5.028 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

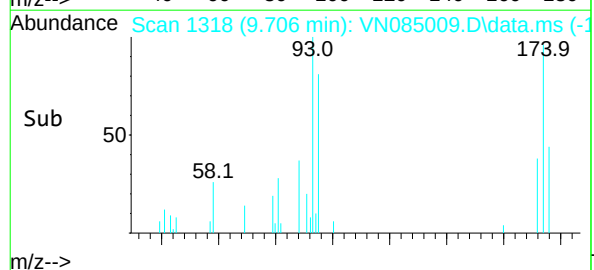
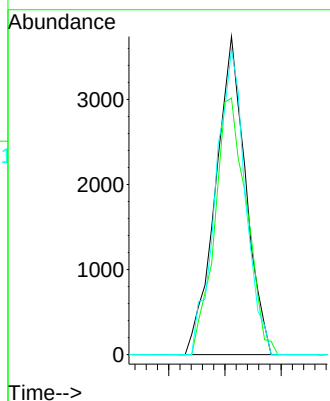
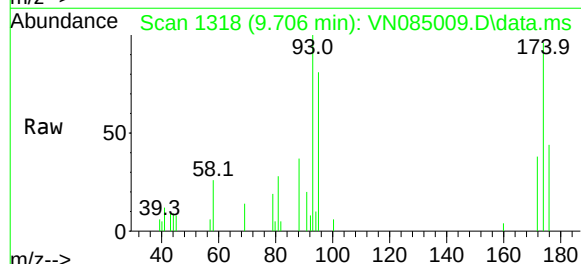
Tgt Ion: 93 Resp: 6962

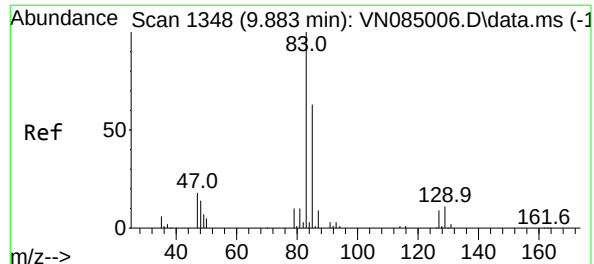
Ion Ratio Lower Upper

93 100

95 85.5 66.2 99.4

174 94.3 74.9 112.3





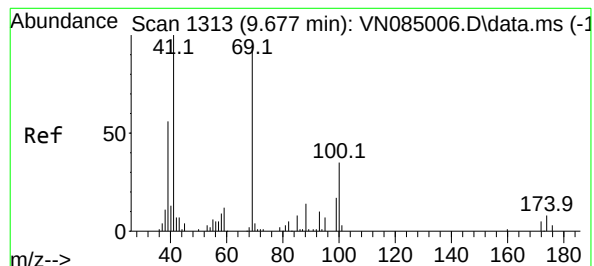
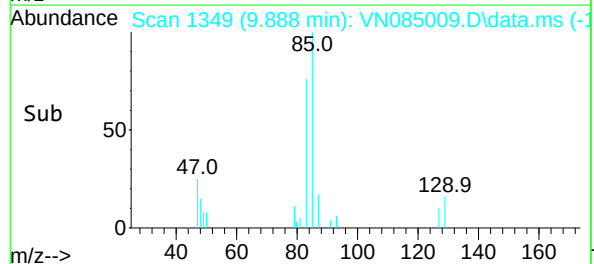
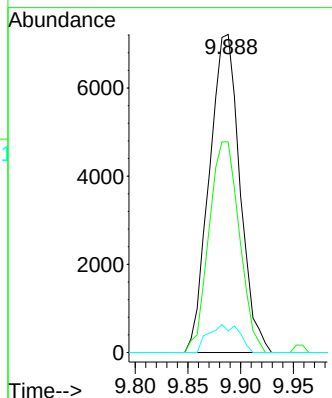
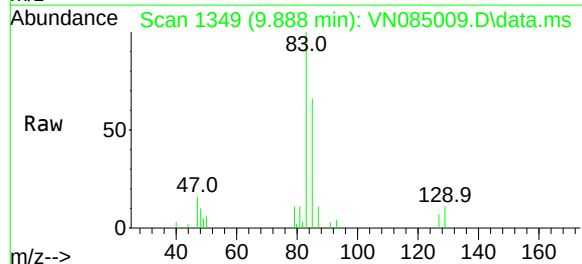
#47
Bromodichloromethane
Concen: 4.962 ug/l
RT: 9.888 min Scan# 1348
Delta R.T. 0.006 min
Lab File: VN085009.D
Acq: 22 Nov 2024 12:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 83 Resp: 14562
Ion Ratio Lower Upper
83 100
85 66.2 50.5 75.7
127 6.8 7.1 10.7#

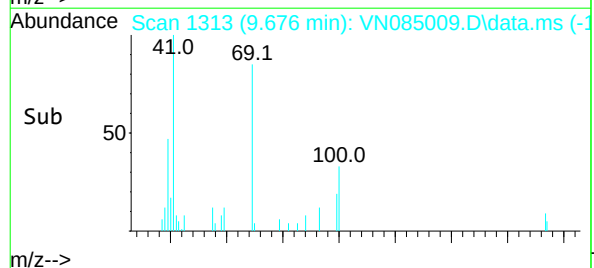
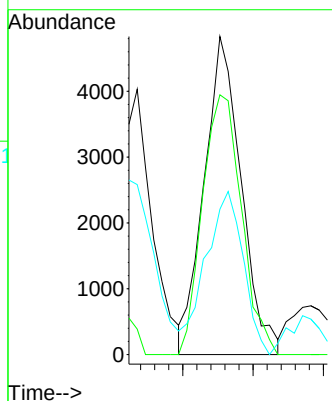
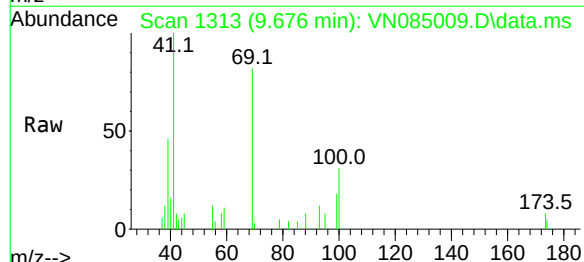
Manual Integrations
APPROVED

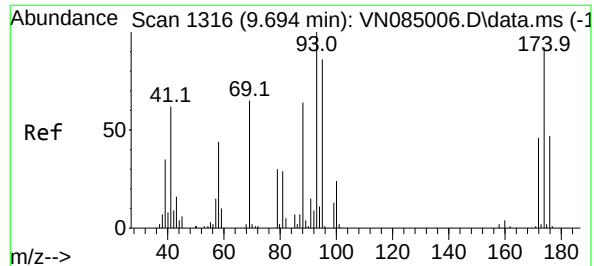
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#48
Methyl methacrylate
Concen: 4.918 ug/l
RT: 9.676 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085009.D
Acq: 22 Nov 2024 12:57

Tgt Ion: 41 Resp: 8840
Ion Ratio Lower Upper
41 100
69 86.1 73.2 109.8
39 52.3 46.2 69.4





#49

1,4-Dioxane

Concen: 94.738 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 88 Resp: 2953

Ion Ratio Lower Upper

88 100

43 35.6 16.7 25.1

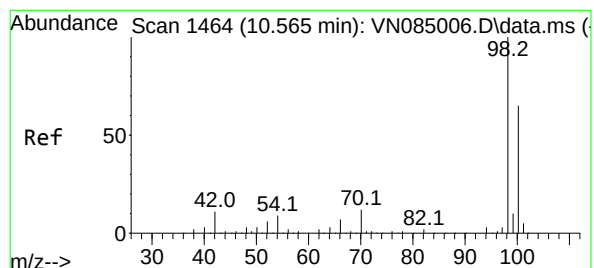
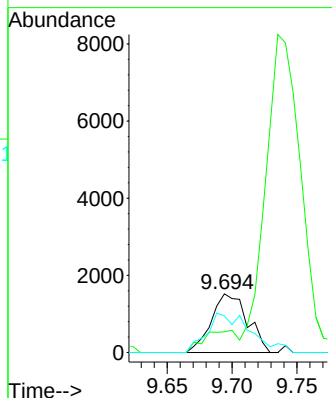
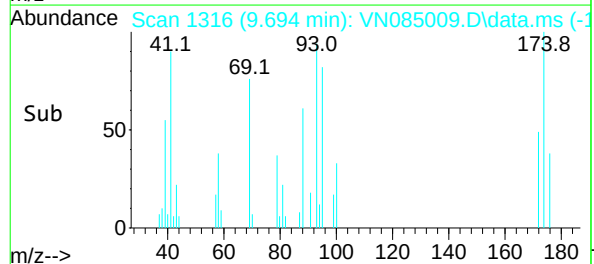
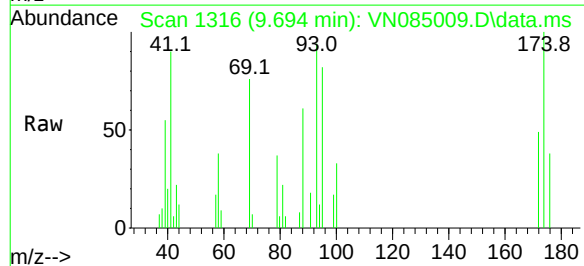
58 80.8 56.5 84.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#50

Toluene-d8

Concen: 4.775 ug/l

RT: 10.559 min Scan# 1463

Delta R.T. -0.006 min

Lab File: VN085009.D

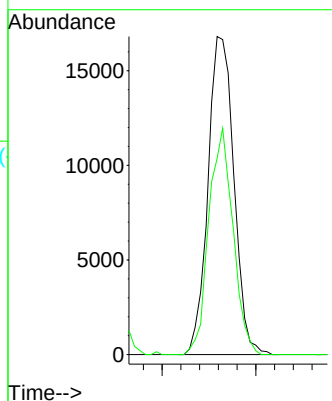
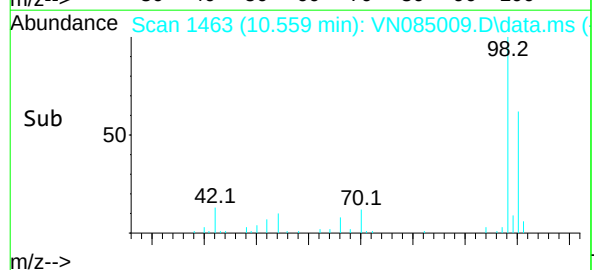
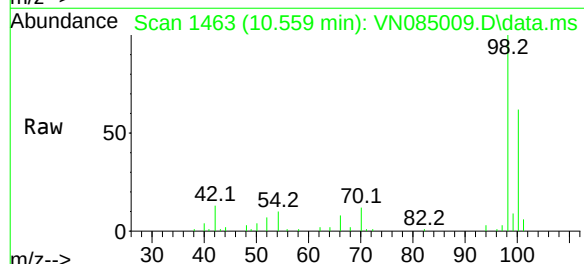
Acq: 22 Nov 2024 12:57

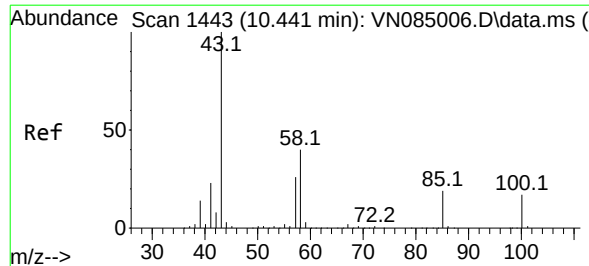
Tgt Ion: 98 Resp: 32318

Ion Ratio Lower Upper

98 100

100 66.6 52.5 78.7





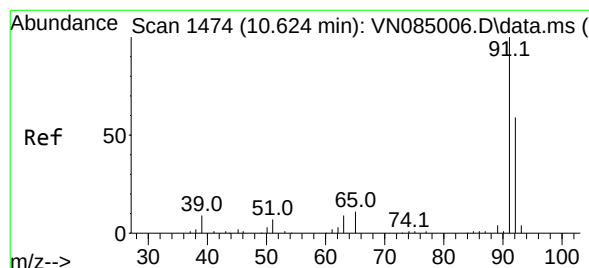
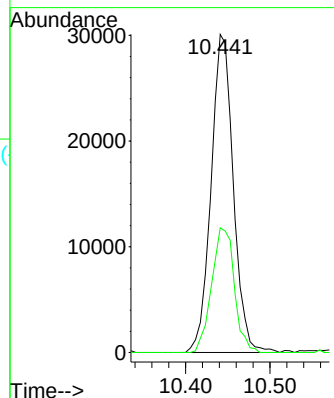
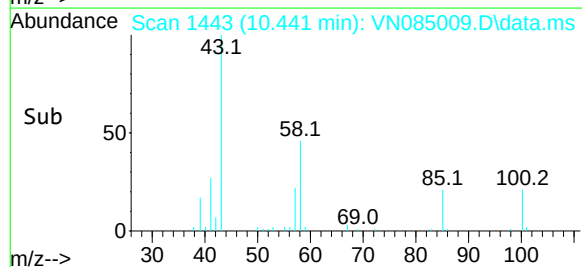
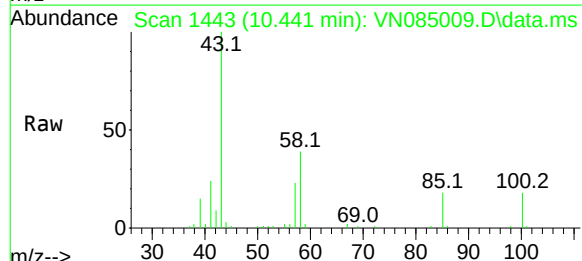
#51
4-Methyl-2-Pentanone
Concen: 25.010 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085009.D
Acq: 22 Nov 2024 12:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 55176
Ion Ratio Lower Upper
43 100
58 39.8 32.1 48.1

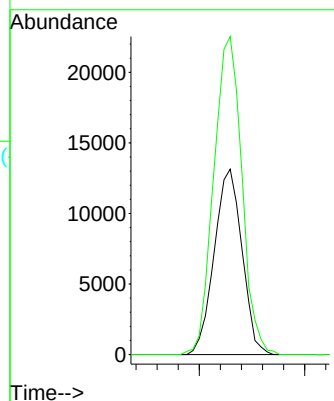
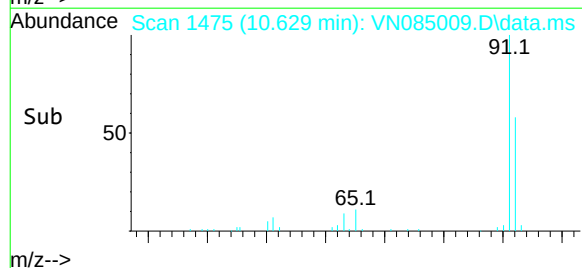
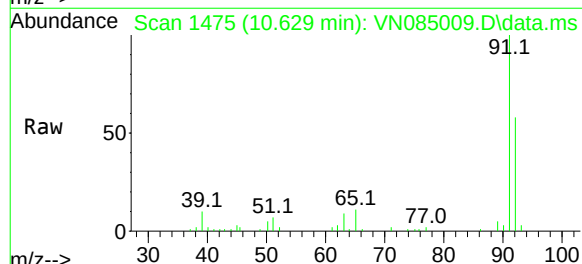
Manual Integrations
APPROVED

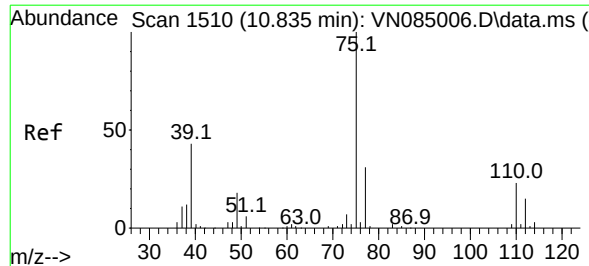
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#52
Toluene
Concen: 5.022 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN085009.D
Acq: 22 Nov 2024 12:57

Tgt Ion: 92 Resp: 24051
Ion Ratio Lower Upper
92 100
91 173.6 136.7 205.1





#53

t-1,3-Dichloropropene

Concen: 4.559 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 75 Resp: 13412

Ion Ratio Lower Upper

75 100

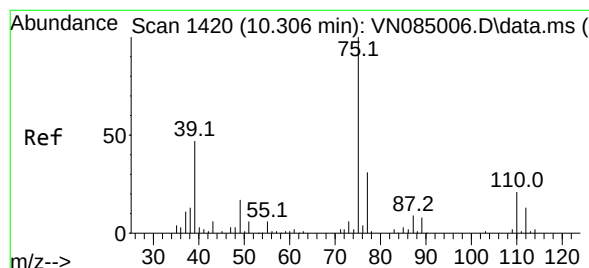
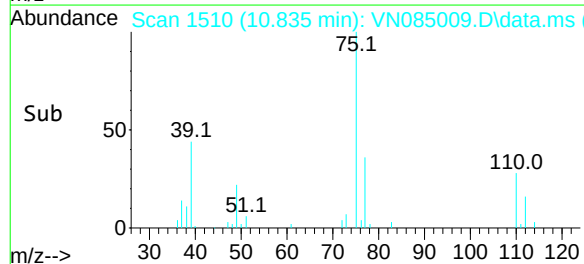
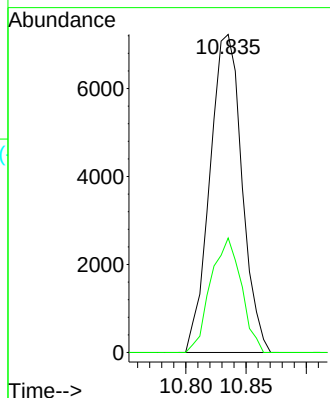
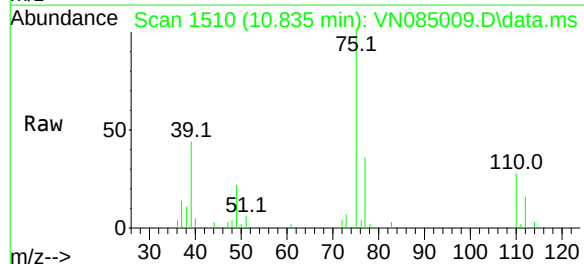
77 36.0 25.0 37.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#54

cis-1,3-Dichloropropene

Concen: 4.779 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. 0.006 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

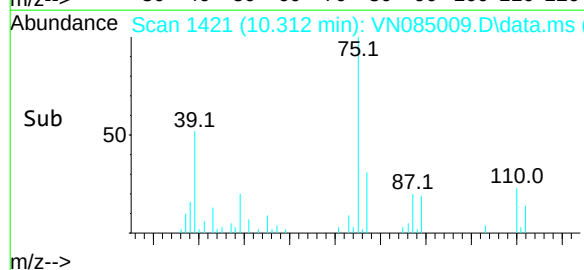
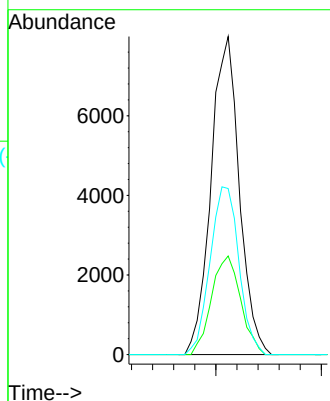
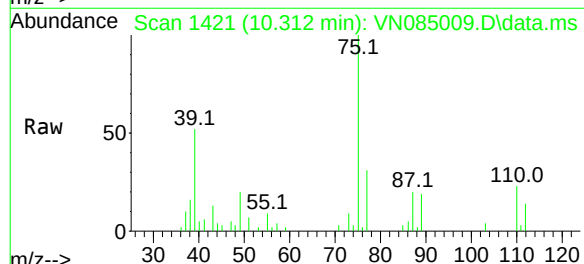
Tgt Ion: 75 Resp: 14917

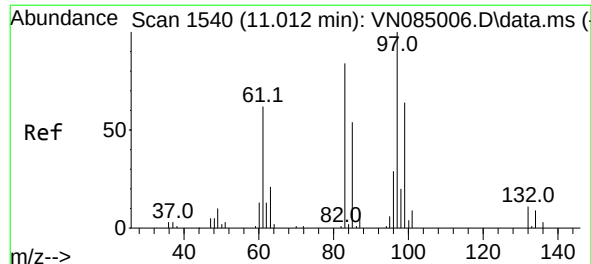
Ion Ratio Lower Upper

75 100

77 31.0 25.0 37.4

39 52.2 37.6 56.4





#55

1,1,2-Trichloroethane

Concen: 4.928 ug/l

RT: 11.017 min Scan# 15

Delta R.T. 0.006 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 97 Resp: 8791

Ion Ratio Lower Upper

97 100

83 85.0 67.4 101.2

85 55.0 43.1 64.7

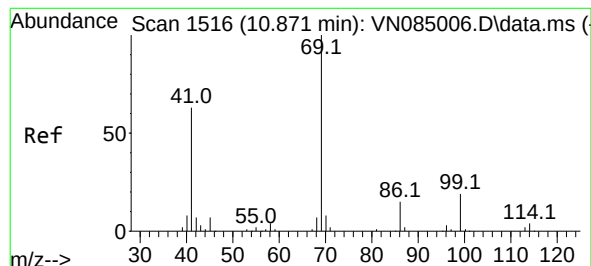
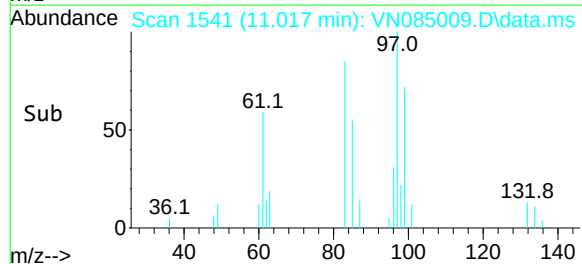
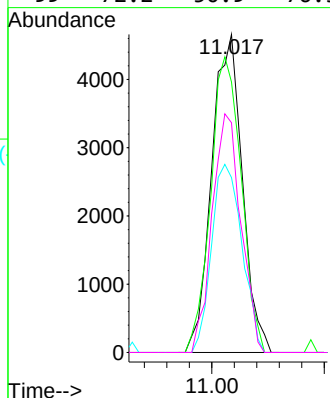
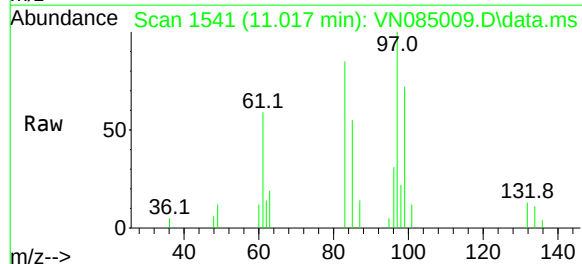
99 72.2 50.9 76.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#56

Ethyl methacrylate

Concen: 4.605 ug/l

RT: 10.876 min Scan# 1517

Delta R.T. 0.006 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

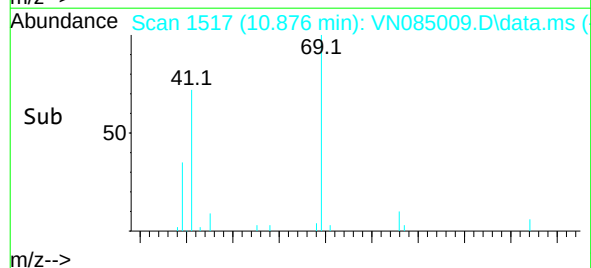
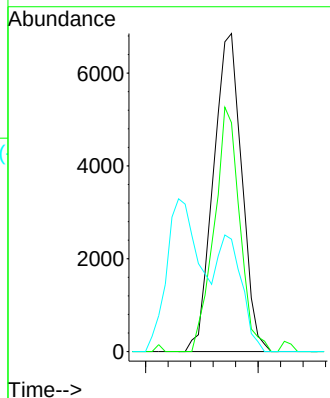
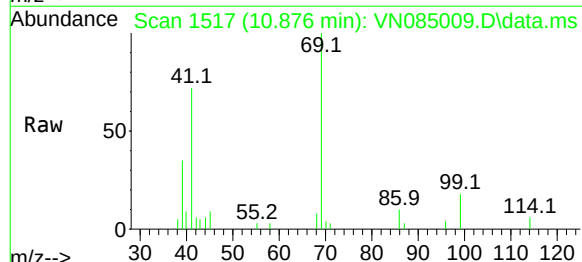
Tgt Ion: 69 Resp: 12004

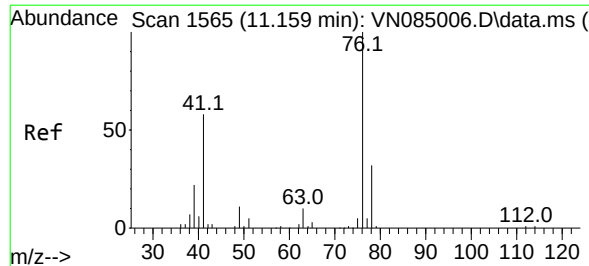
Ion Ratio Lower Upper

69 100

41 69.4 50.0 75.0

39 31.3 27.0 40.6





#57

1,3-Dichloropropane

Concen: 5.012 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 76 Resp: 15736

Ion Ratio Lower Upper

76 100

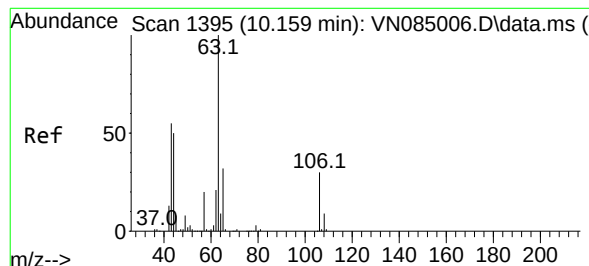
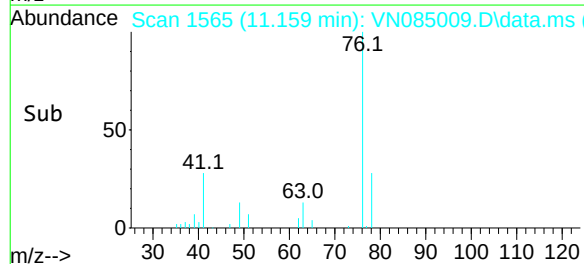
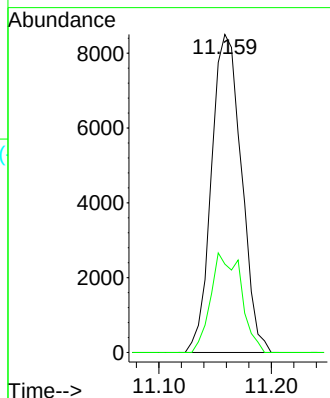
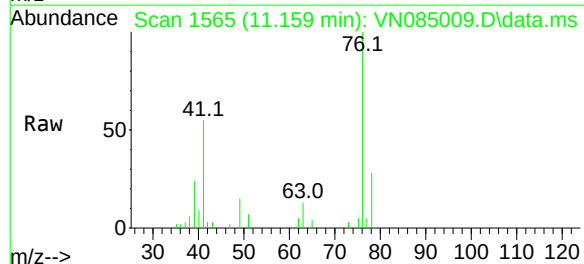
78 31.7 26.1 39.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#58

2-Chloroethyl Vinyl ether

Concen: 21.254 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN085009.D

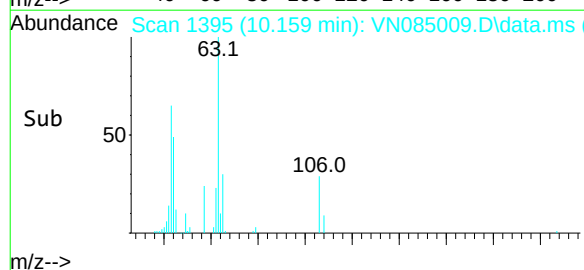
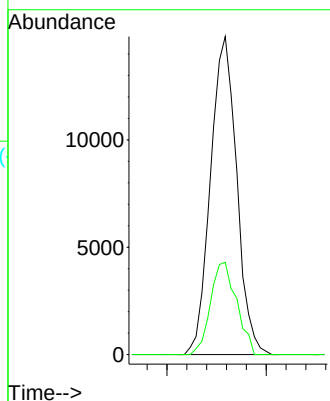
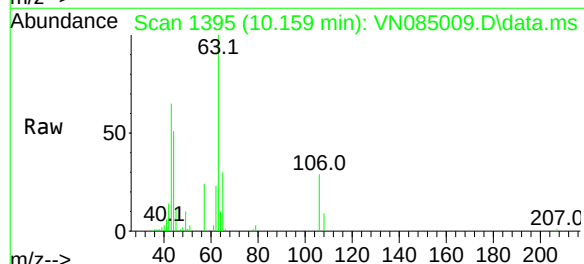
Acq: 22 Nov 2024 12:57

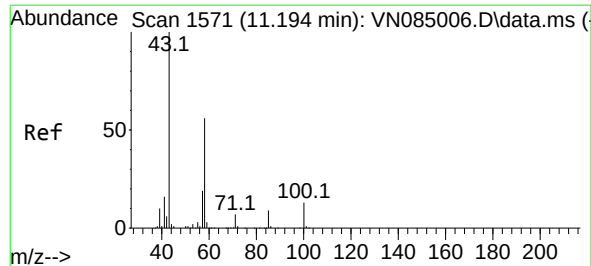
Tgt Ion: 63 Resp: 27177

Ion Ratio Lower Upper

63 100

106 28.8 23.0 34.6





#59

2-Hexanone

Concen: 25.237 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 41641

Ion Ratio Lower Upper

43 100

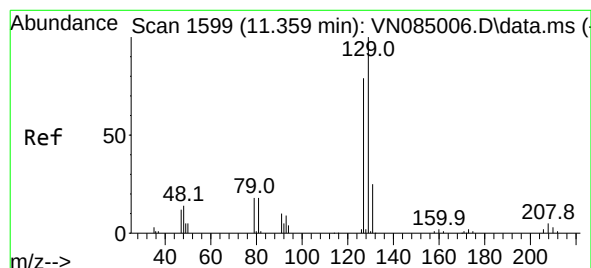
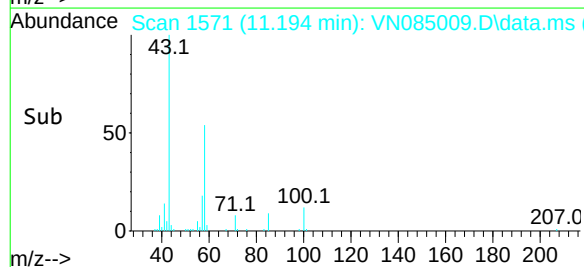
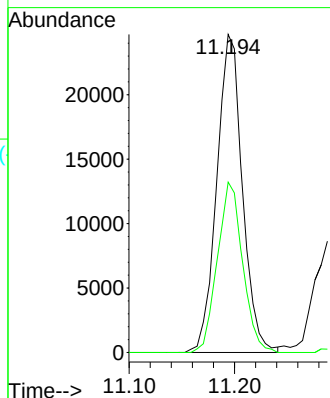
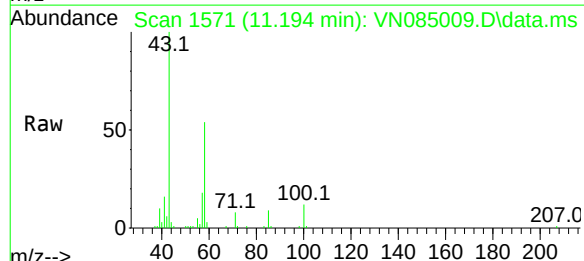
58 52.8 28.3 85.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#60

Dibromochloromethane

Concen: 4.974 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. -0.000 min

Lab File: VN085009.D

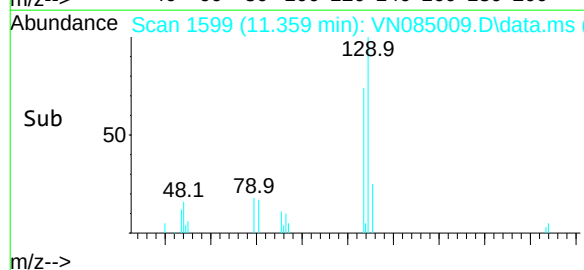
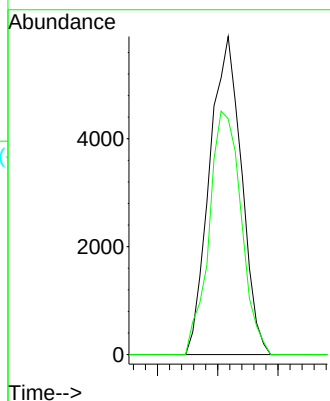
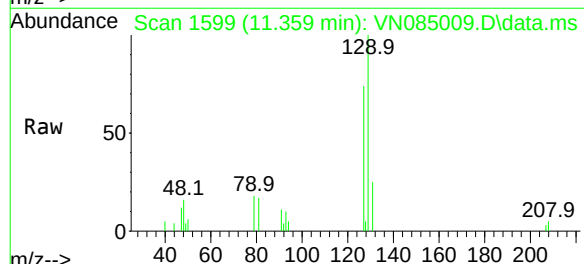
Acq: 22 Nov 2024 12:57

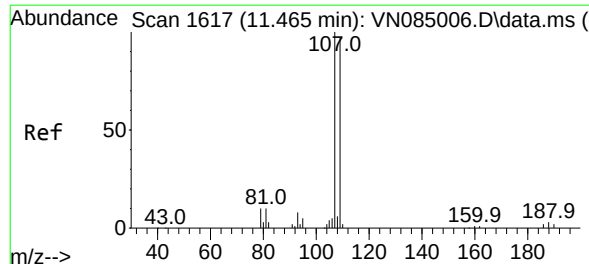
Tgt Ion:129 Resp: 10844

Ion Ratio Lower Upper

129 100

127 77.1 39.2 117.6





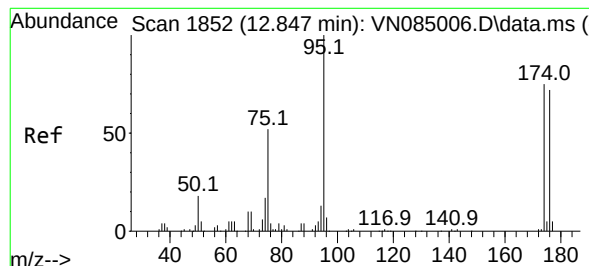
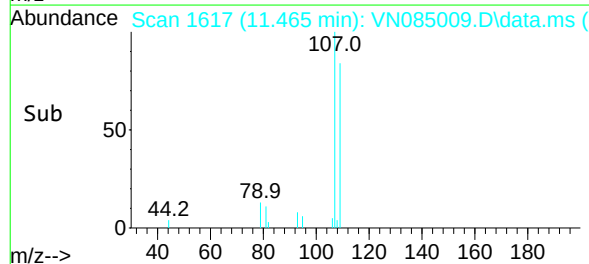
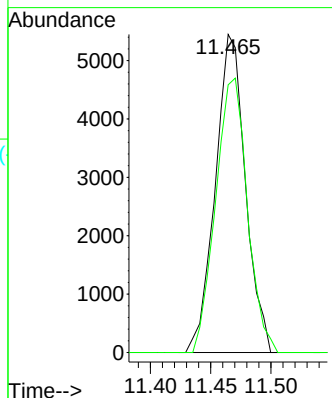
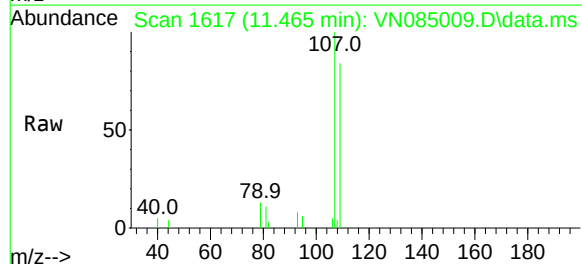
#61
1,2-Dibromoethane
Concen: 5.128 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085009.D
Acq: 22 Nov 2024 12:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 107 Resp: 9468
Ion Ratio Lower Upper
107 100
109 90.8 76.1 114.1

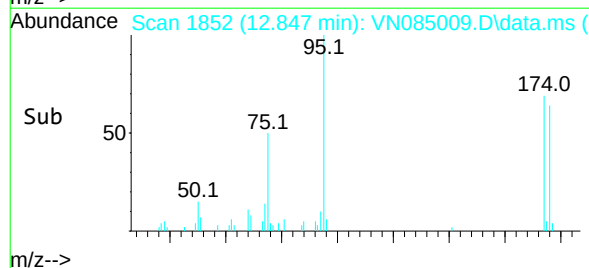
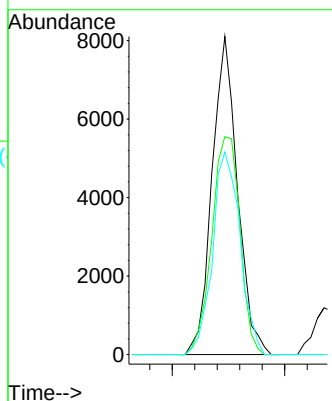
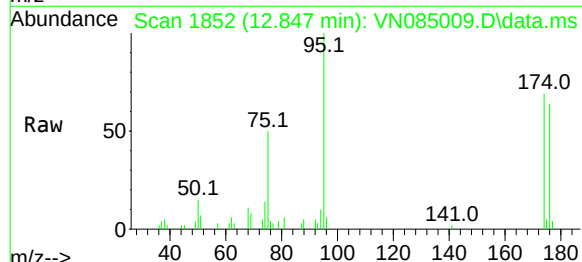
Manual Integrations
APPROVED

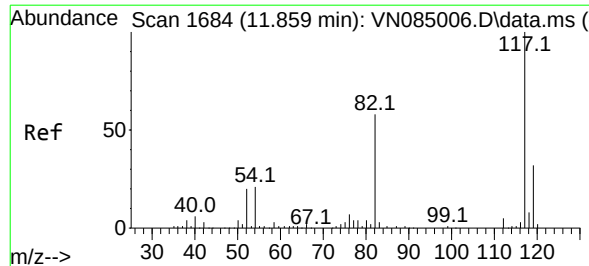
Reviewed By : John Carlone 11/25/2024
Supervised By : Mahesh Dadoda 11/25/2024



#62
4-Bromofluorobenzene
Concen: 5.024 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085009.D
Acq: 22 Nov 2024 12:57

Tgt Ion: 95 Resp: 12715
Ion Ratio Lower Upper
95 100
174 76.0 0.0 146.6
176 68.8 0.0 141.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.864 min Scan# 1684

Delta R.T. 0.006 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion:117 Resp: 235767

Ion Ratio Lower Upper

117 100

82 55.9 46.0 69.0

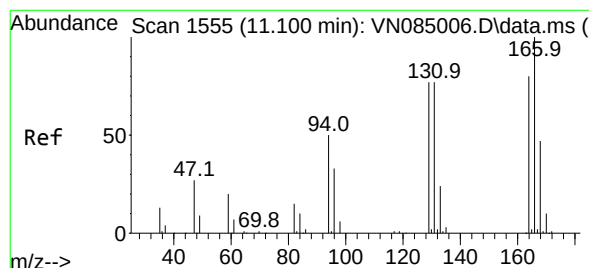
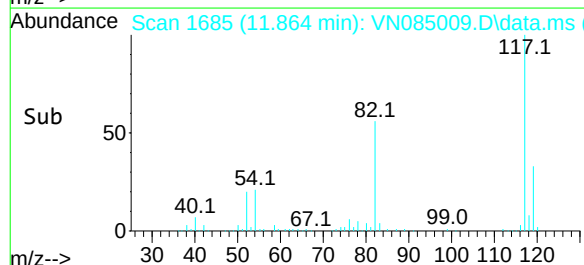
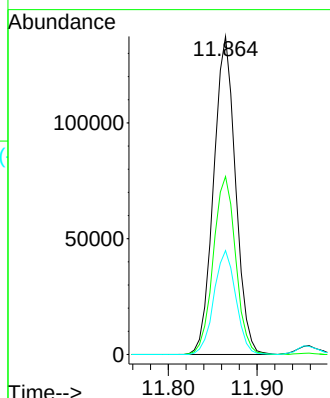
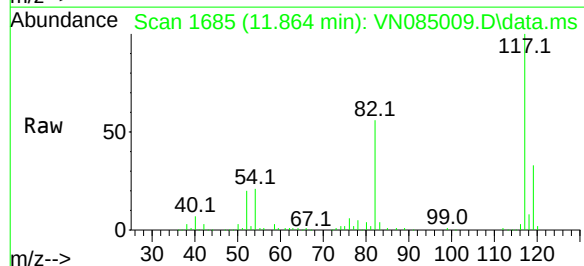
119 32.7 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#64

Tetrachloroethene

Concen: 5.556 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Tgt Ion:164 Resp: 8826

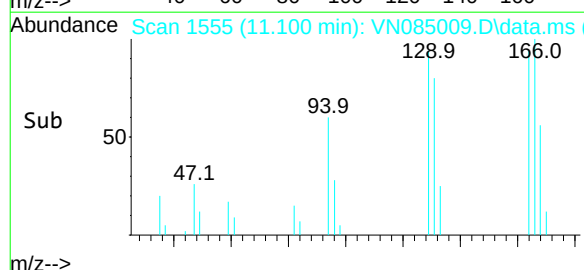
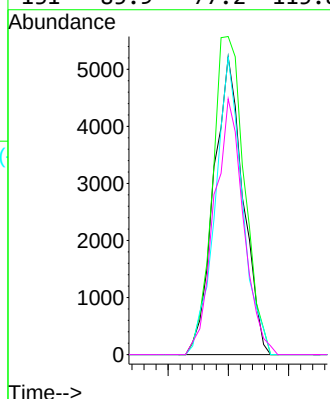
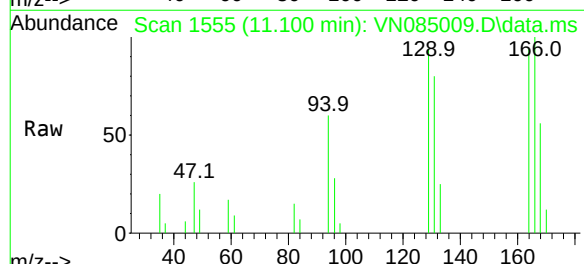
Ion Ratio Lower Upper

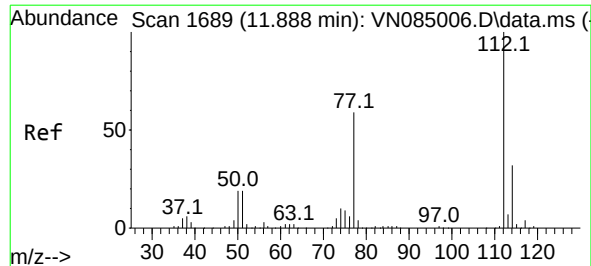
164 100

166 106.8 100.6 151.0

129 99.9 77.7 116.5

131 85.9 77.2 115.8





#65

Chlorobenzene

Concen: 4.997 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:112 Resp: 26717

Ion Ratio Lower Upper

112 100

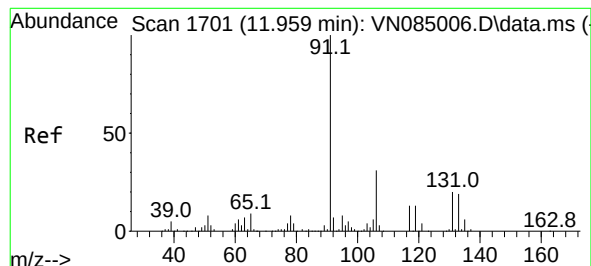
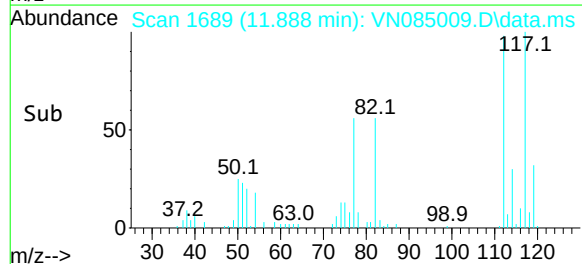
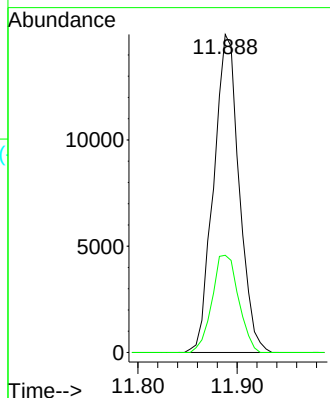
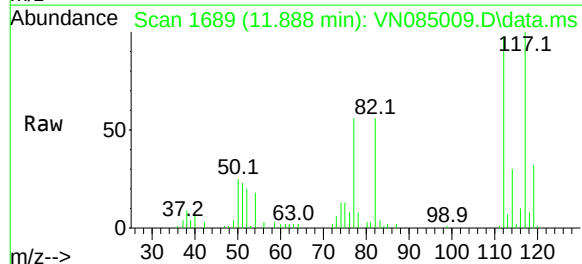
114 30.6 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#66

1,1,1,2-Tetrachloroethane

Concen: 5.261 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

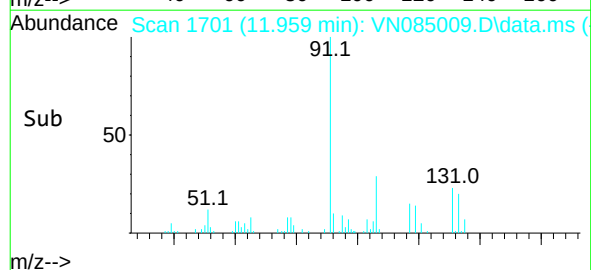
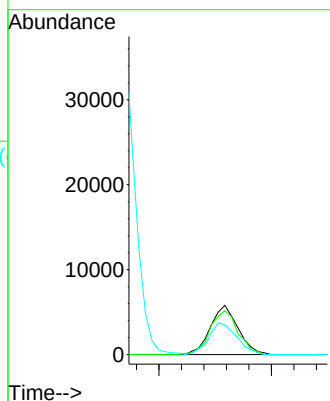
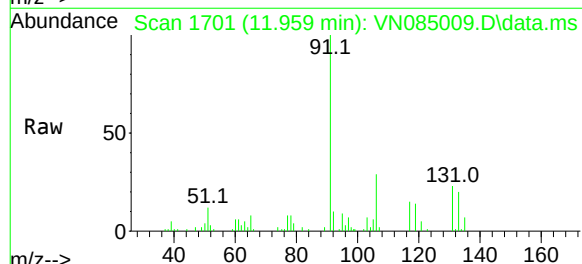
Tgt Ion:131 Resp: 9904

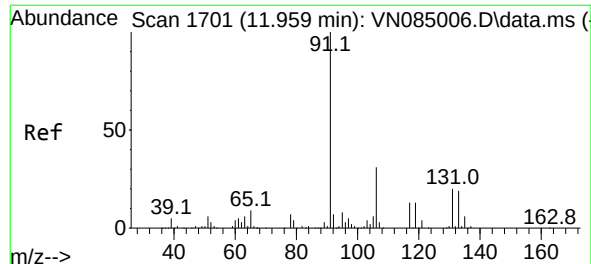
Ion Ratio Lower Upper

131 100

133 89.9 47.8 143.4

119 65.0 32.1 96.3





#67

Ethyl Benzene

Concen: 4.916 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 42642

Ion Ratio Lower Upper

91 100

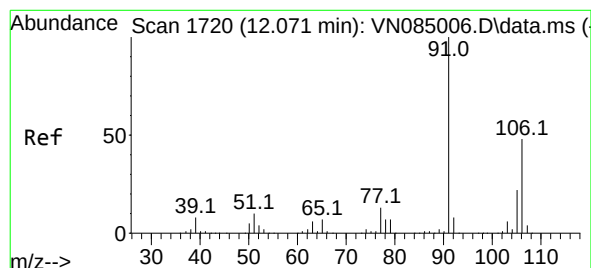
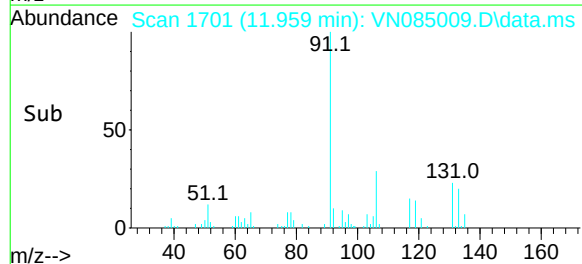
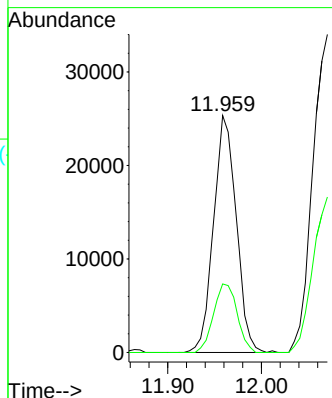
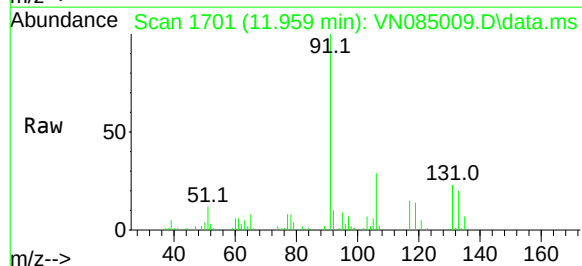
106 28.9 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#68

m/p-Xylenes

Concen: 9.514 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN085009.D

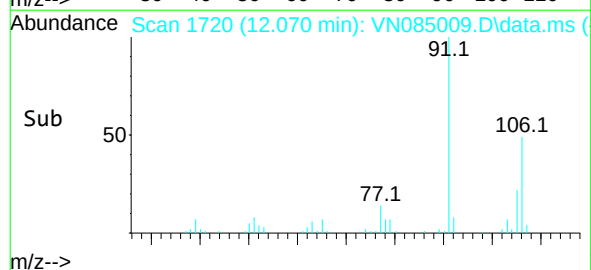
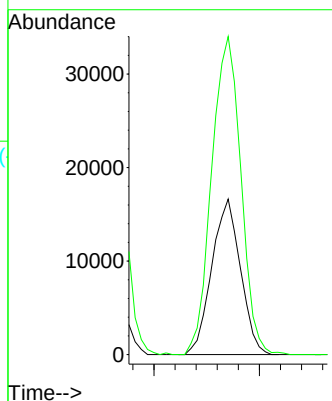
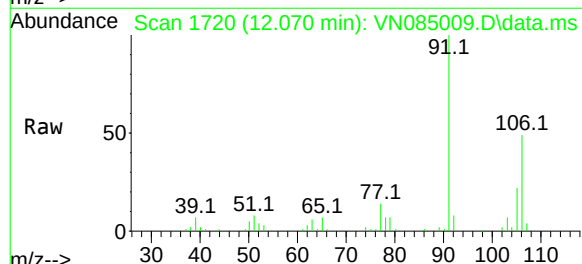
Acq: 22 Nov 2024 12:57

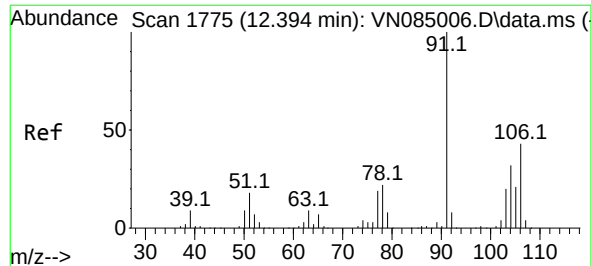
Tgt Ion:106 Resp: 31421

Ion Ratio Lower Upper

106 100

91 208.8 168.0 252.0





#69

o-Xylene

Concen: 4.754 ug/l

RT: 12.400 min Scan# 1775

Delta R.T. 0.006 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:106 Resp: 14935

Ion Ratio Lower Upper

106 100

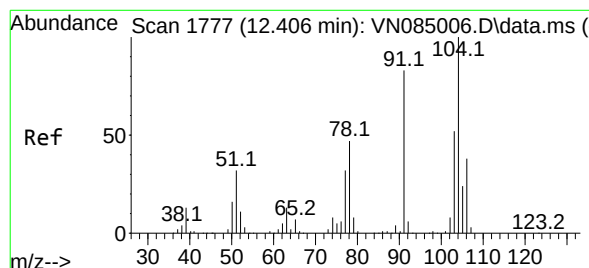
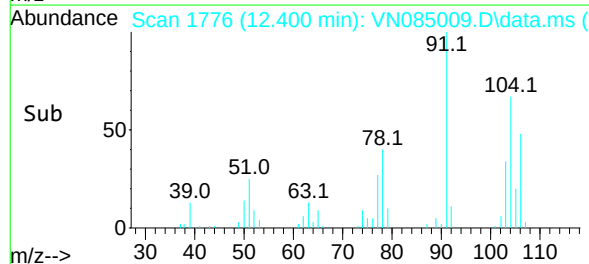
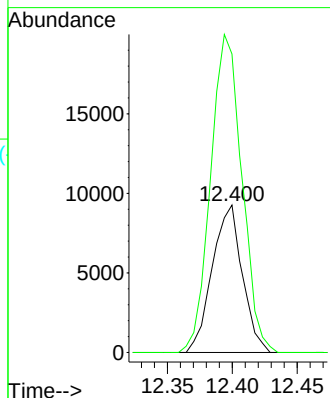
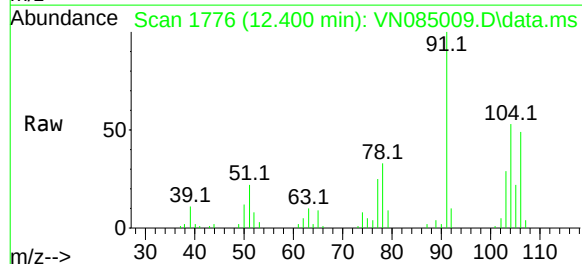
91 224.5 110.7 331.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#70

Styrene

Concen: 4.686 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. 0.006 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

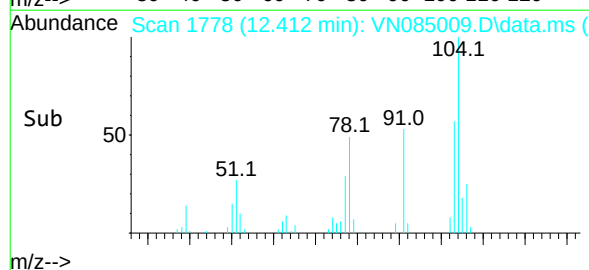
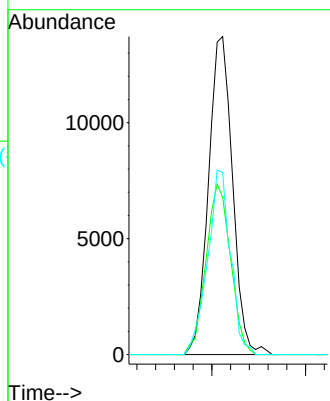
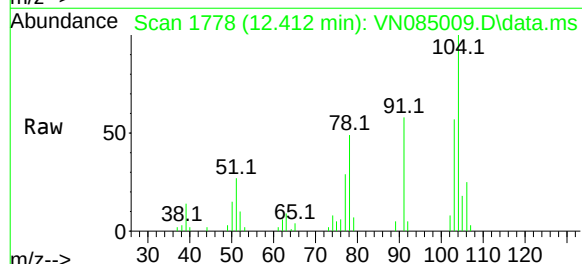
Tgt Ion:104 Resp: 24480

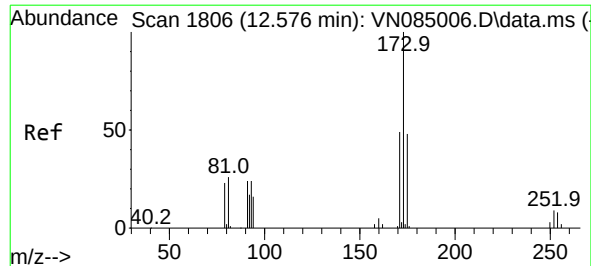
Ion Ratio Lower Upper

104 100

78 54.8 42.3 63.5

103 55.3 44.2 66.2





#71

Bromoform

Concen: 5.038 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

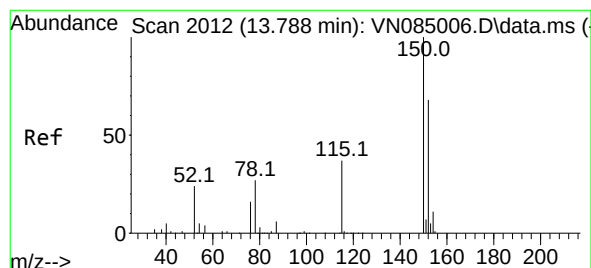
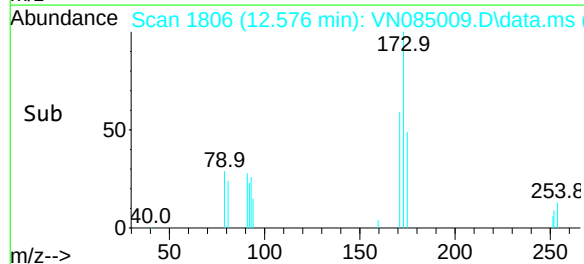
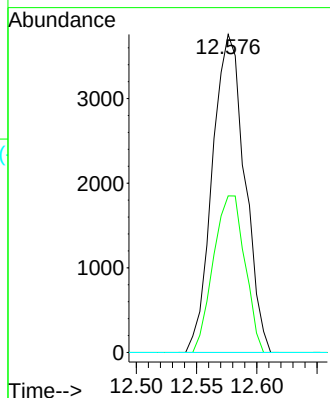
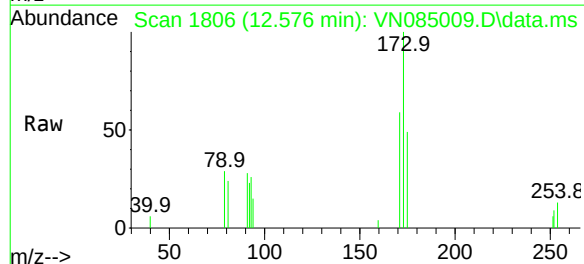
ClientSampleId :

VSTDIC005

Tgt Ion:	173	Resp:	7040
Ion Ratio	Lower	Upper	
173	100		
175	47.7	23.8	71.2
254	0.0	0.0	0.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

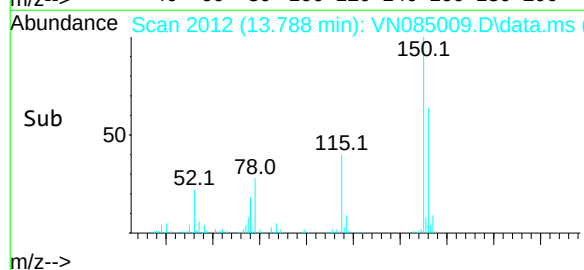
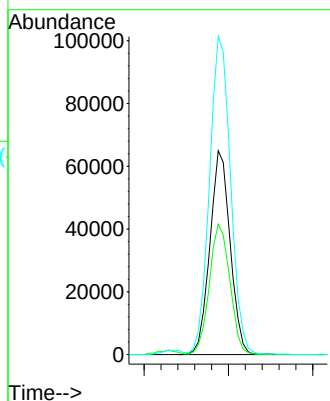
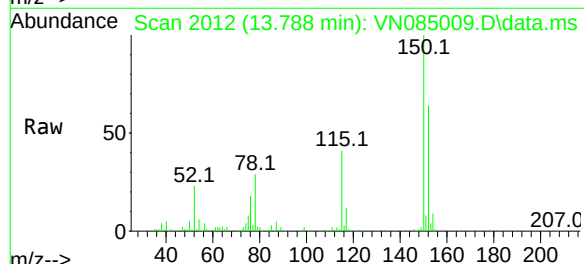
RT: 13.788 min Scan# 2012

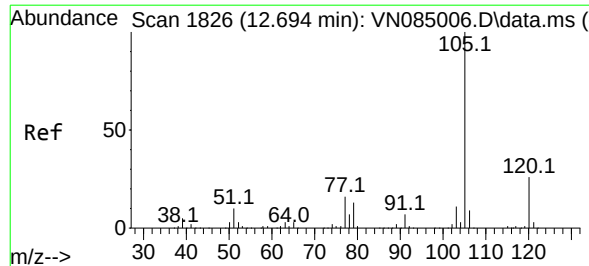
Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Tgt Ion:	152	Resp:	108389
Ion Ratio	Lower	Upper	
152	100		
115	64.7	31.7	95.1
150	162.8	0.0	351.4





#73

Isopropylbenzene

Concen: 4.910 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 105 Resp: 37544

Ion Ratio Lower Upper

105 100

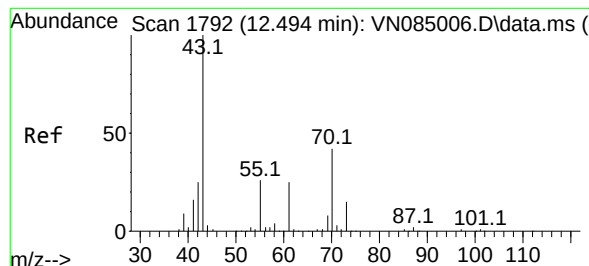
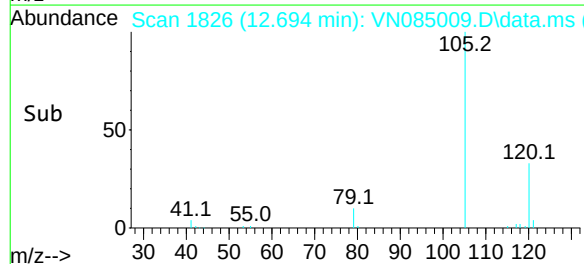
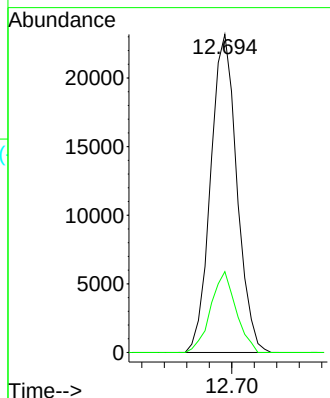
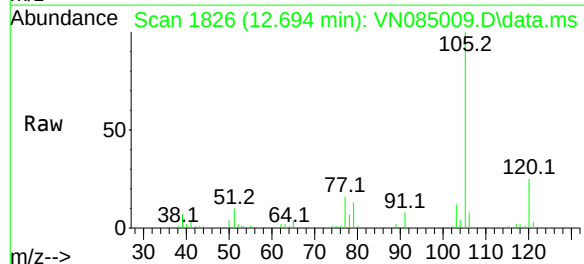
120 24.6 13.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#74

N-ethyl acetate

Concen: 4.759 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Tgt Ion: 43 Resp: 14995

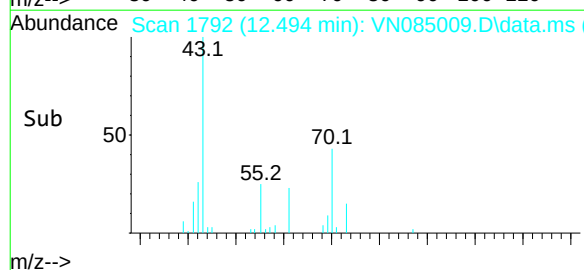
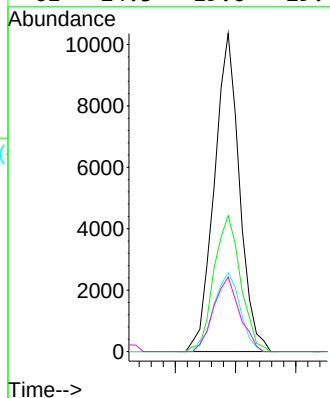
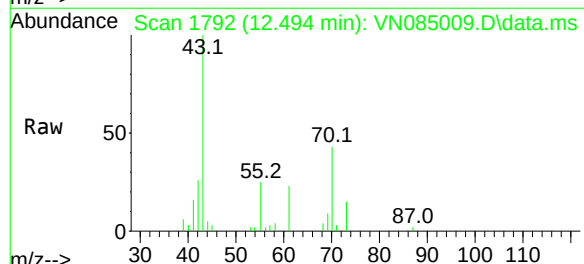
Ion Ratio Lower Upper

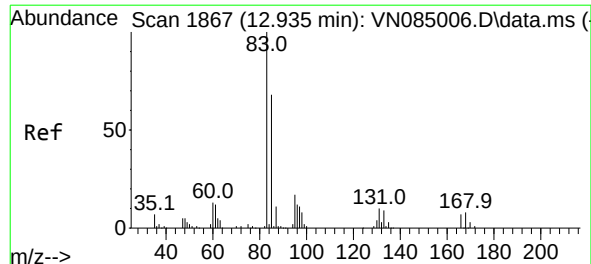
43 100

70 45.3 34.6 51.8

55 26.0 20.5 30.7

61 24.3 19.6 29.4





#75

1,1,2,2-Tetrachloroethane

Concen: 5.109 ug/l

RT: 12.941 min Scan# 1867

Delta R.T. 0.006 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

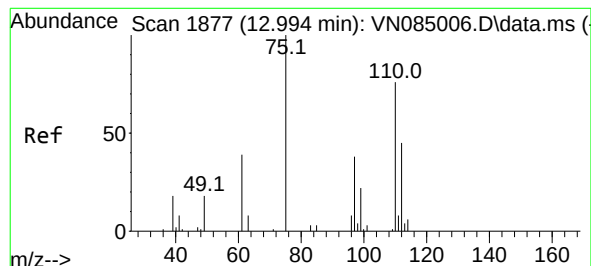
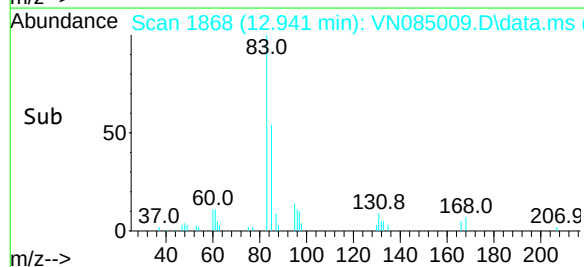
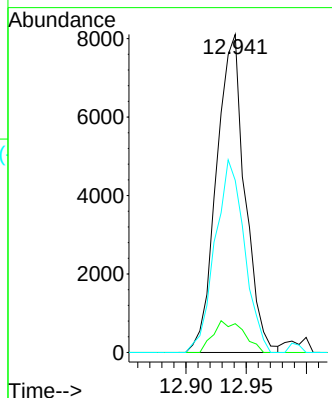
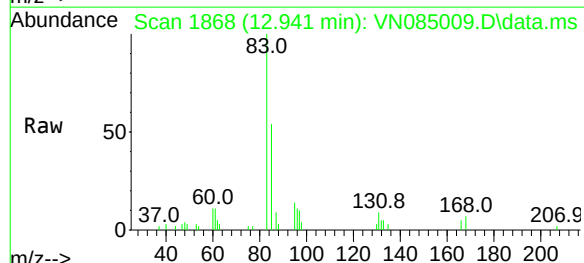
ClientSampleId :

VSTDIC005

Tgt Ion:	83	Resp:	13341
Ion	Ratio	Lower	Upper
83	100		
131	10.7	5.1	15.4
85	62.6	32.1	96.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#76

1,2,3-Trichloropropane

Concen: 4.393 ug/l m

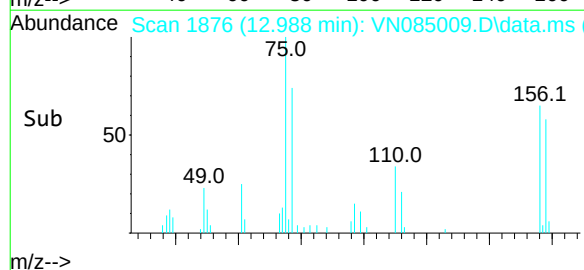
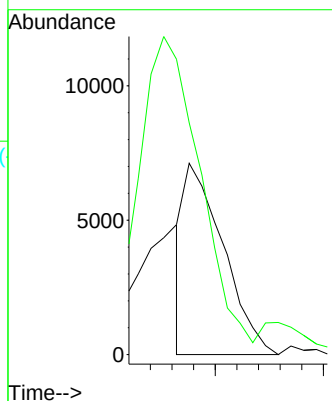
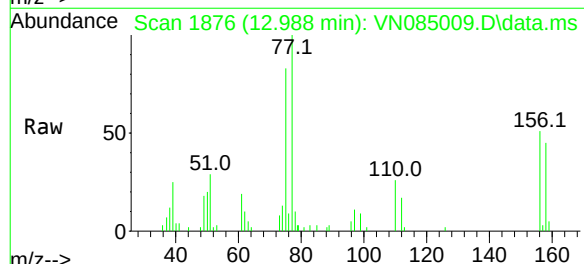
RT: 12.988 min Scan# 1876

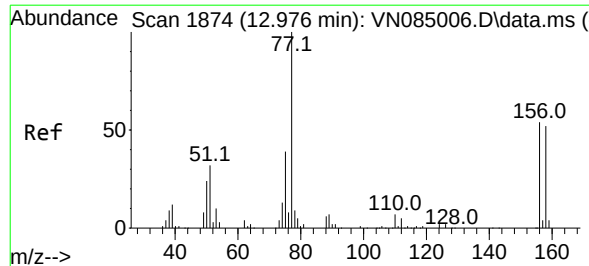
Delta R.T. -0.006 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Tgt Ion:	75	Resp:	8907
Ion	Ratio	Lower	Upper
75	100		
77	269.2	109.1	327.4





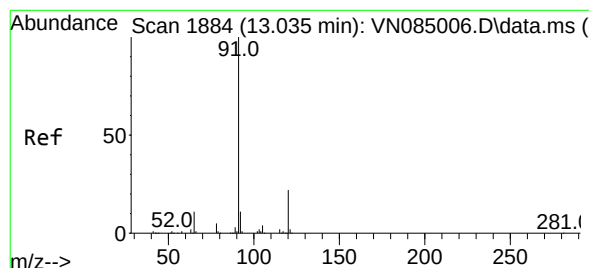
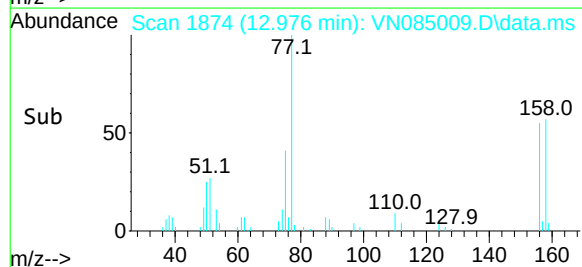
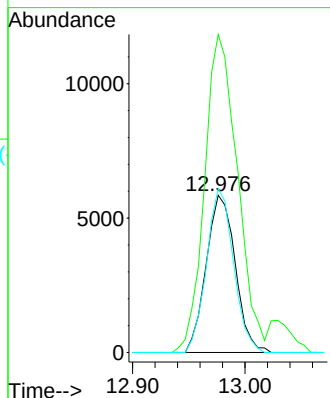
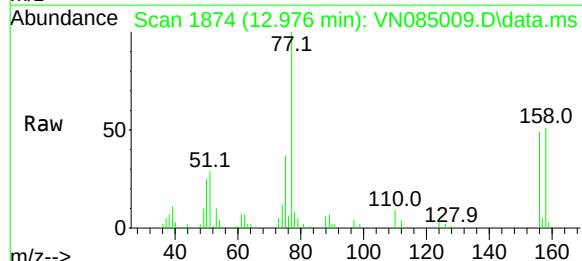
Bromobenzene
Concen: 5.095 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN085009.D
Acq: 22 Nov 2024 12:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion	Ratio	Lower	Upper
156	100		
77	228.7	107.2	321.6
158	97.2	48.5	145.6

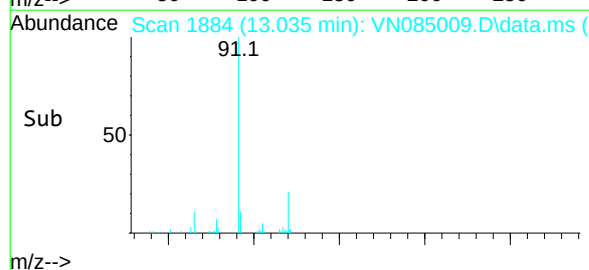
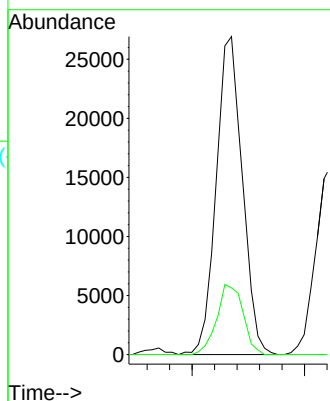
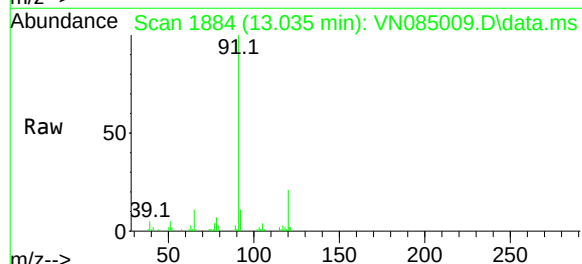
Manual Integrations
APPROVED

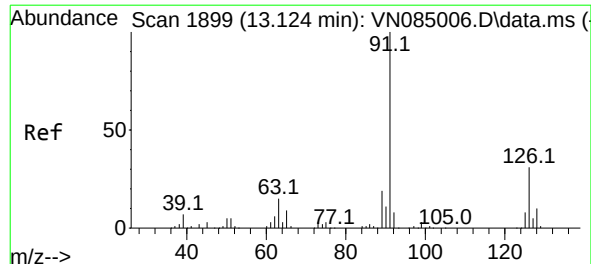
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



n-propylbenzene
Concen: 4.931 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN085009.D
Acq: 22 Nov 2024 12:57

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.3	33.9





#79

2-Chlorotoluene

Concen: 4.932 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 29037

Ion Ratio Lower Upper

91 100

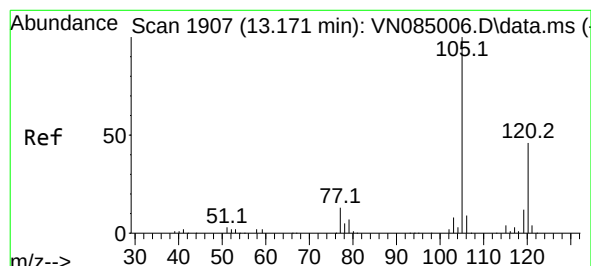
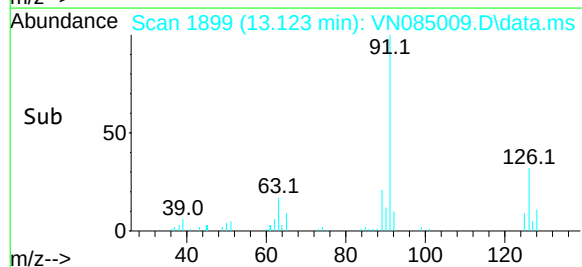
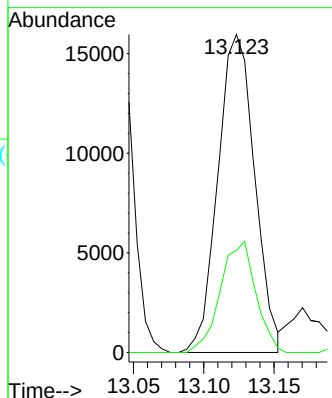
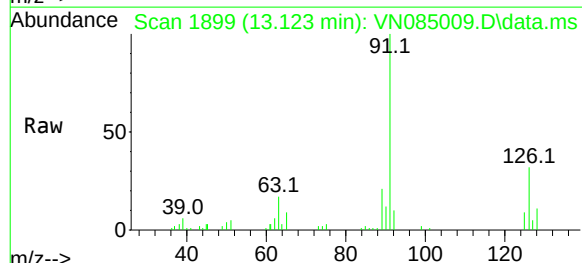
126 33.7 16.1 48.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#80

1,3,5-Trimethylbenzene

Concen: 4.802 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN085009.D

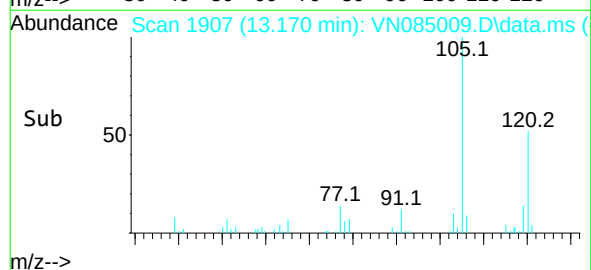
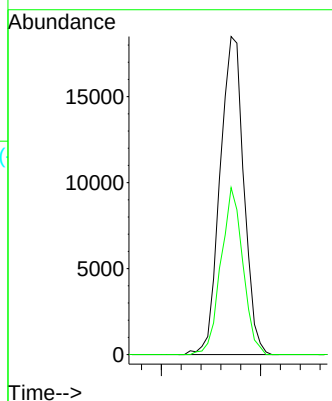
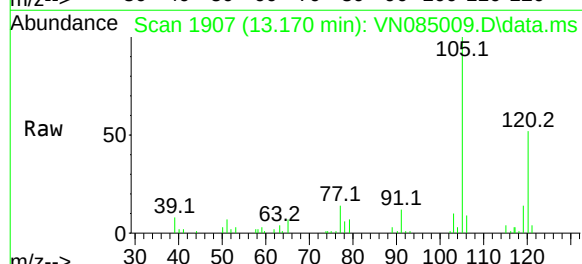
Acq: 22 Nov 2024 12:57

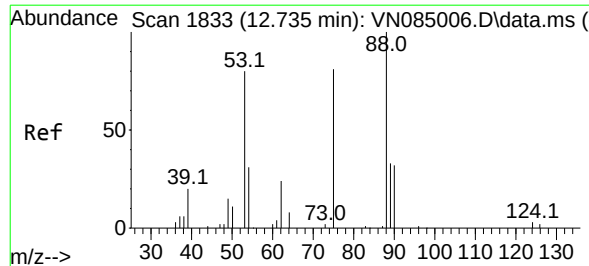
Tgt Ion:105 Resp: 30809

Ion Ratio Lower Upper

105 100

120 48.4 23.6 71.0





#81

trans-1,4-Dichloro-2-butene

Concen: 5.502 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

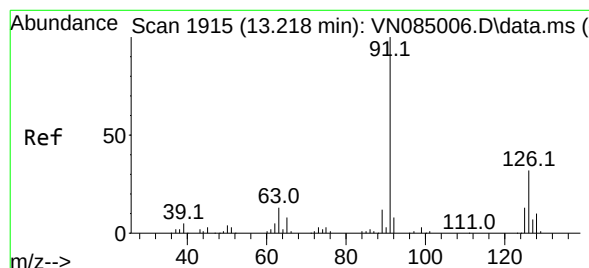
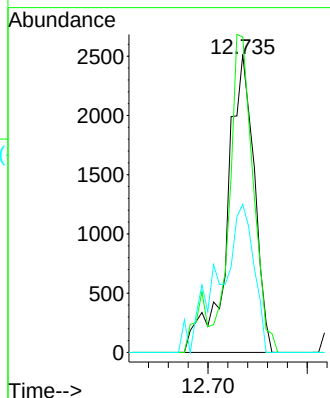
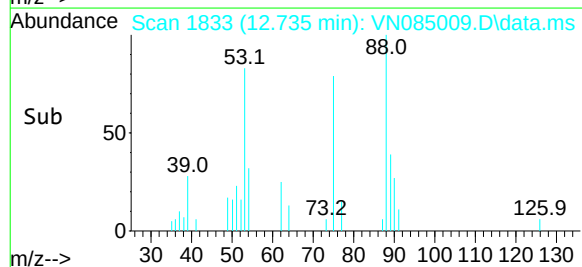
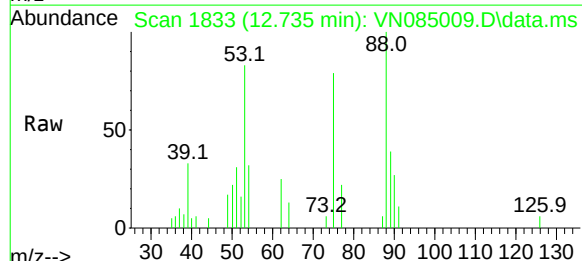
VSTDIC005

Tgt Ion:	75	Resp:	4774
Ion	Ratio	Lower	Upper
75	100		
53	92.4	78.2	117.4
89	64.5	37.9	56.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#82

4-Chlorotoluene

Concen: 4.986 ug/l

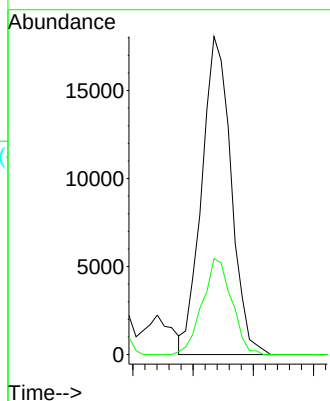
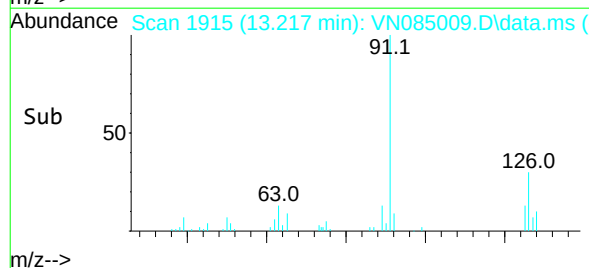
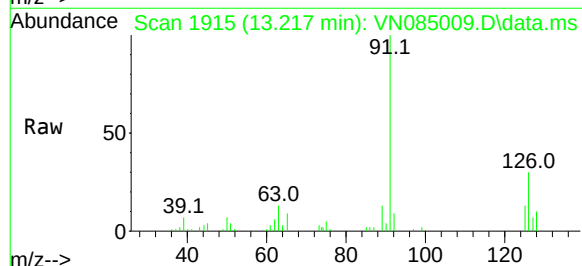
RT: 13.217 min Scan# 1915

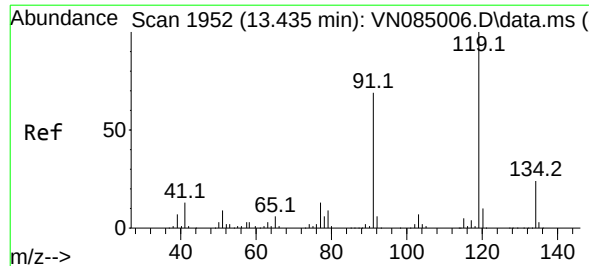
Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Tgt Ion:	91	Resp:	30558
Ion	Ratio	Lower	Upper
91	100		
126	30.2	16.1	48.3





#83

tert-Butylbenzene

Concen: 4.797 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

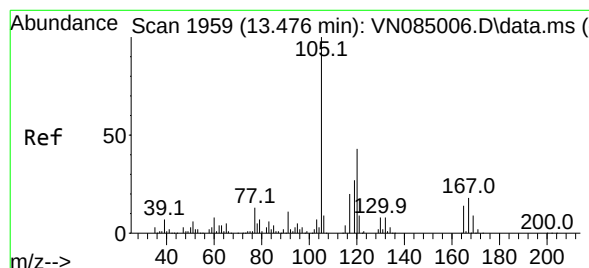
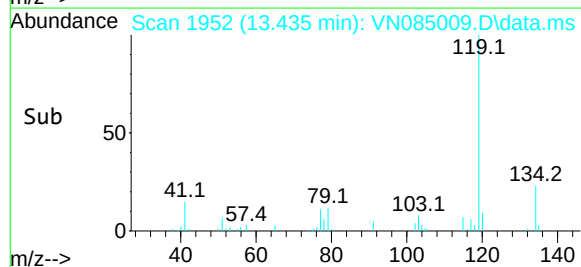
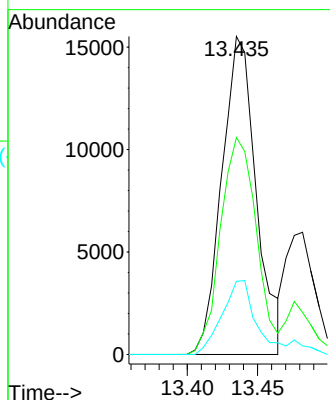
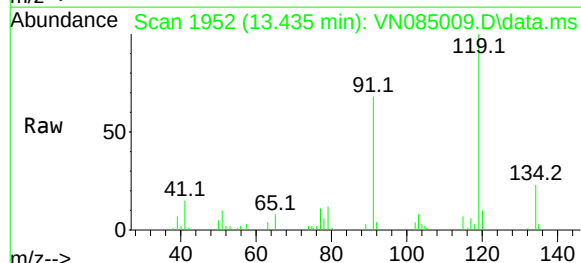
ClientSampleId :

VSTDIC005

Tgt Ion:	119	Resp:	26485
Ion Ratio	Lower	Upper	
119	100		
91	71.1	35.1	105.5
134	22.9	12.1	36.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#84

1,2,4-Trimethylbenzene

Concen: 4.743 ug/l

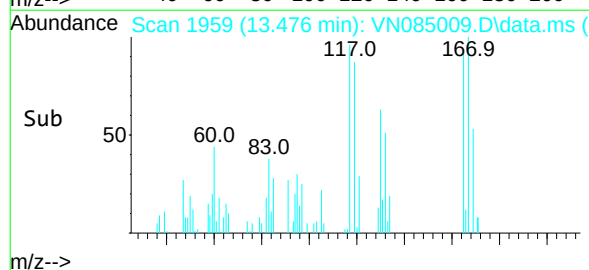
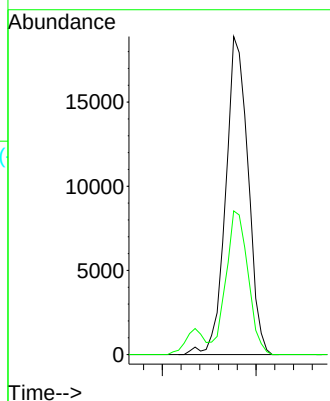
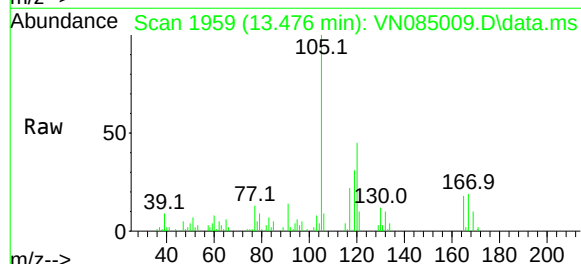
RT: 13.476 min Scan# 1959

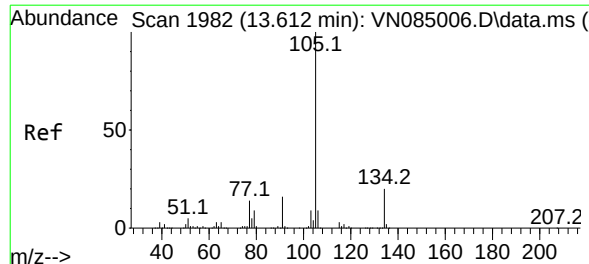
Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Tgt Ion:	105	Resp:	31328
Ion Ratio	Lower	Upper	
105	100		
120	45.0	21.8	65.4





#85

sec-Butylbenzene

Concen: 4.718 ug/l

RT: 13.611 min Scan# 1982

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:105 Resp: 35183

Ion Ratio Lower Upper

105 100

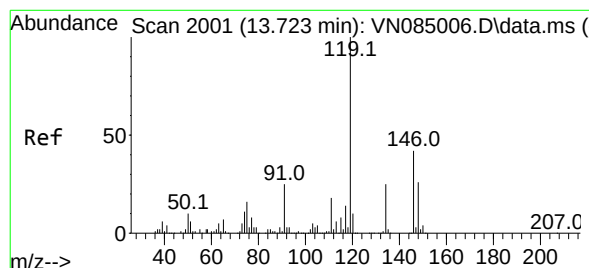
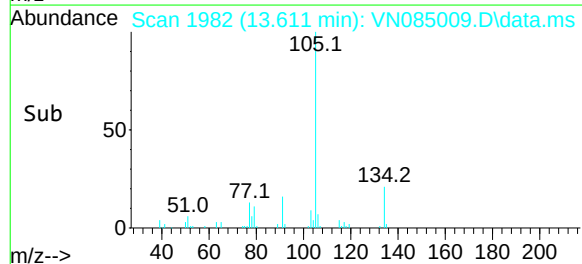
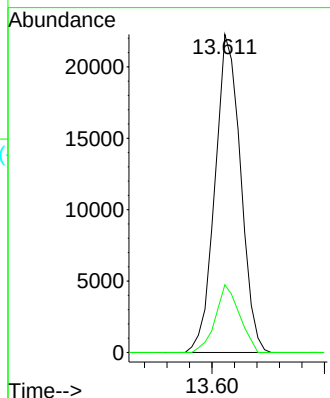
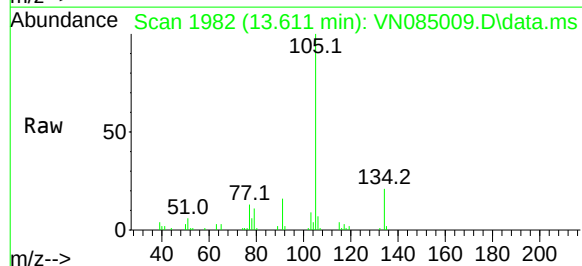
134 20.0 9.8 29.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#86

p-Isopropyltoluene

Concen: 4.551 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

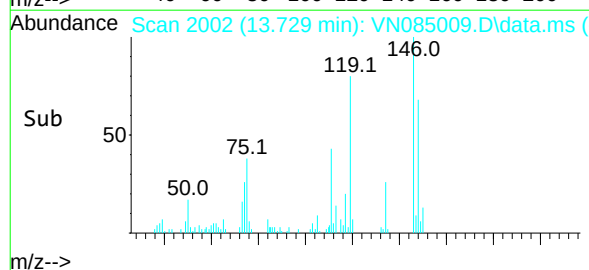
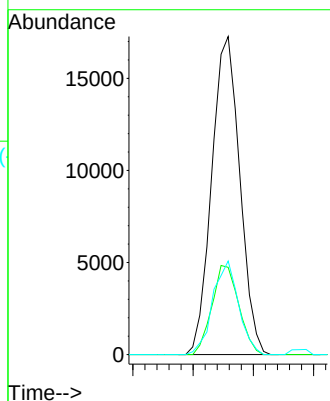
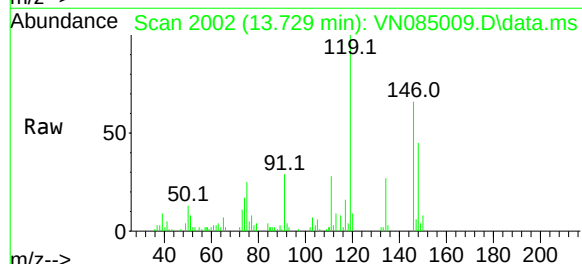
Tgt Ion:119 Resp: 28019

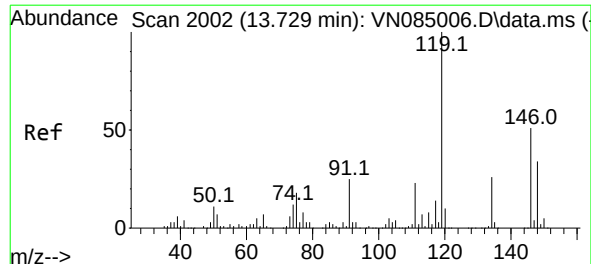
Ion Ratio Lower Upper

119 100

134 26.8 13.0 39.0

91 27.0 12.8 38.4





#87

1,3-Dichlorobenzene

Concen: 5.185 ug/l

RT: 13.735 min Scan# 20

Delta R.T. 0.006 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

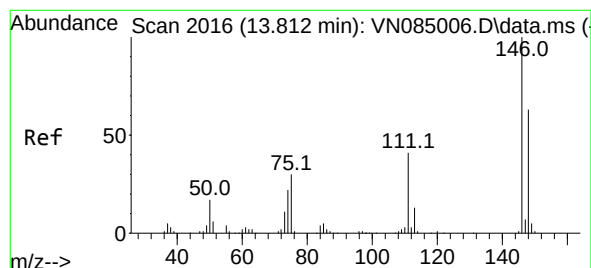
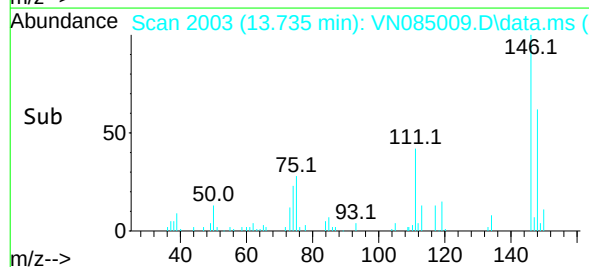
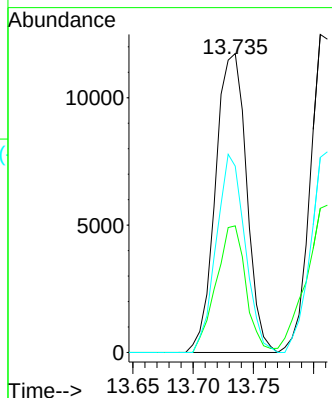
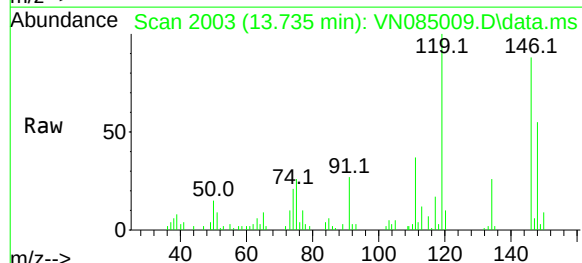
ClientSampleId :

VSTDICC005

Tgt Ion:	146	Resp:	21043
Ion Ratio	Lower	Upper	
146	100		
111	40.7	21.6	65.0
148	61.6	32.2	96.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#88

1,4-Dichlorobenzene

Concen: 5.322 ug/l

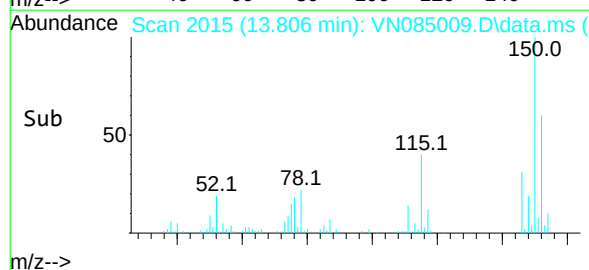
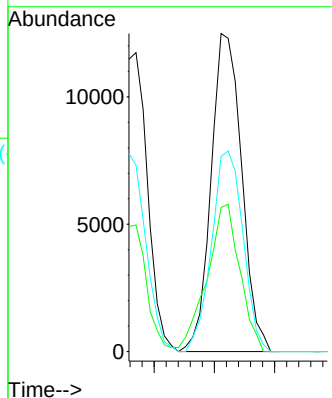
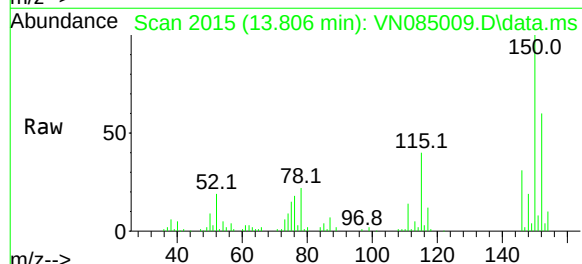
RT: 13.806 min Scan# 2015

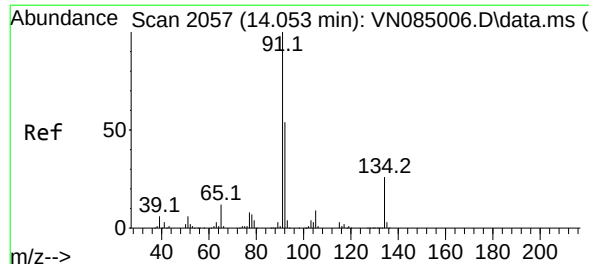
Delta R.T. -0.006 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Tgt Ion:	146	Resp:	22041
Ion Ratio	Lower	Upper	
146	100		
111	49.8	20.9	62.8
148	65.0	31.3	93.9





#89

n-Butylbenzene

Concen: 4.732 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

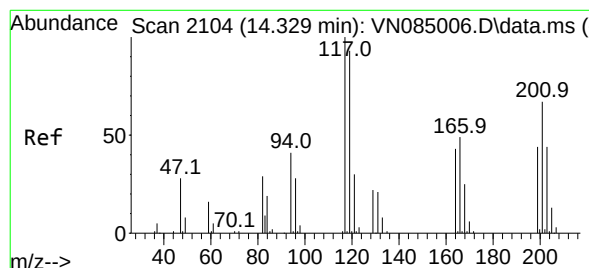
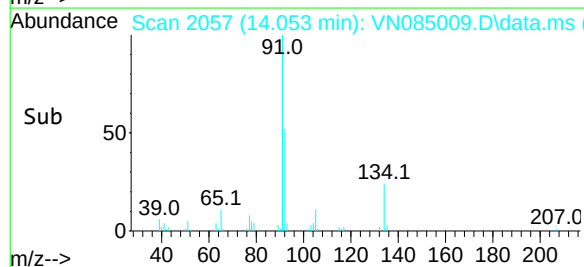
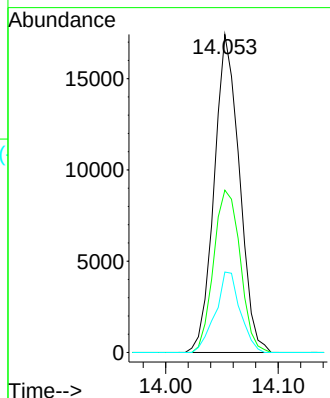
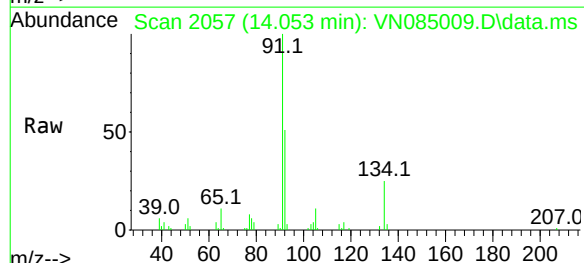
ClientSampleId :

VSTDIC005

Tgt Ion:	91	Resp:	27093
Ion	Ratio	Lower	Upper
91	100		
92	54.0	26.8	80.3
134	24.9	12.8	38.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#90

Hexachloroethane

Concen: 5.119 ug/l

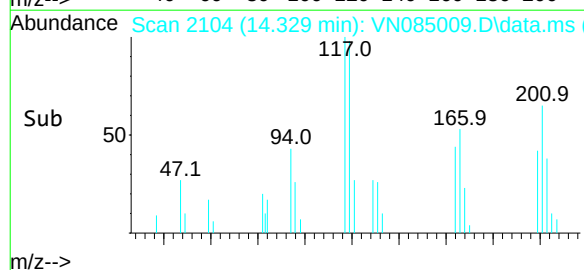
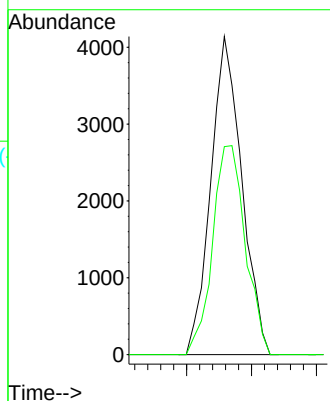
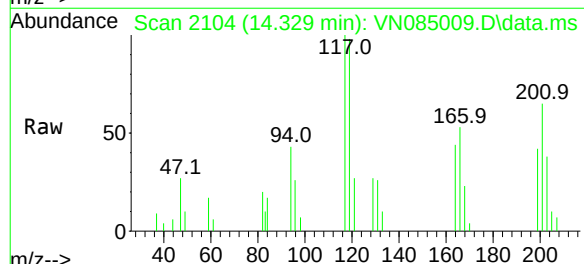
RT: 14.329 min Scan# 2104

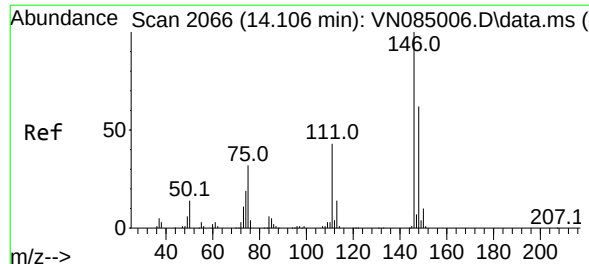
Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Tgt Ion:	117	Resp:	6869
Ion	Ratio	Lower	Upper
117	100		
201	69.4	35.2	105.6





#91

1,2-Dichlorobenzene

Concen: 5.058 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

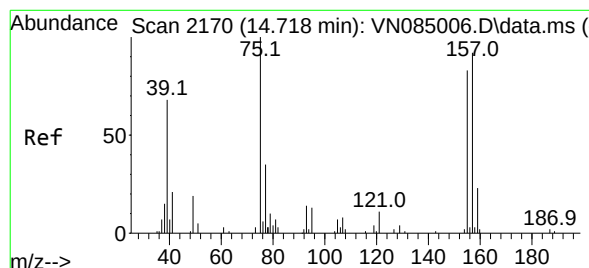
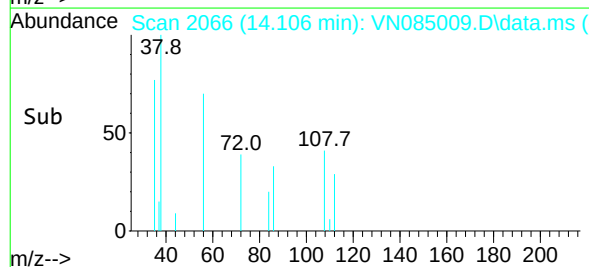
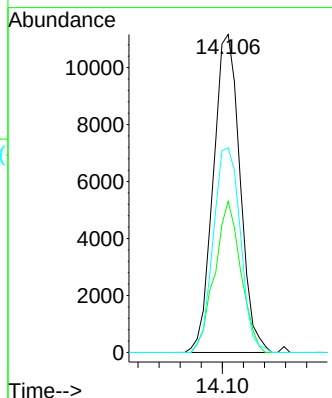
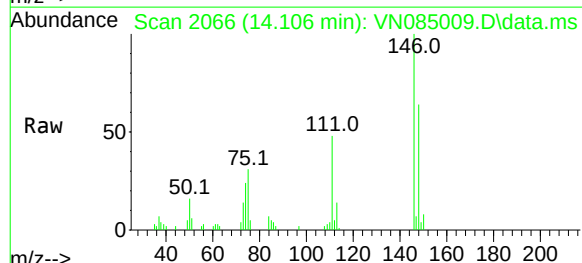
ClientSampleId :

VSTDIC005

Tgt Ion:	146	Resp:	19670
Ion	Ratio	Lower	Upper
146	100		
111	46.4	21.9	65.8
148	65.1	31.1	93.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 5.353 ug/l

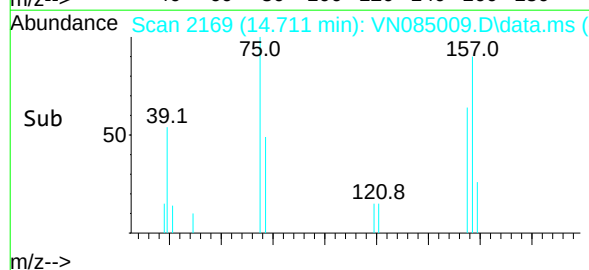
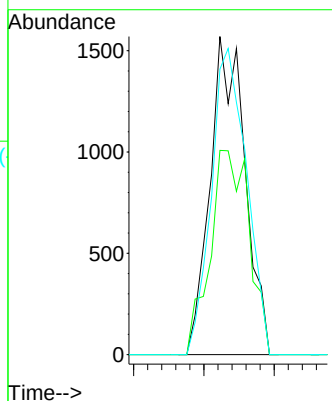
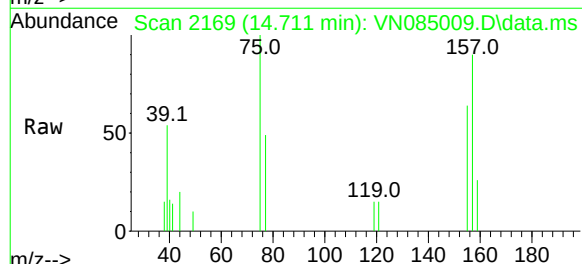
RT: 14.711 min Scan# 2169

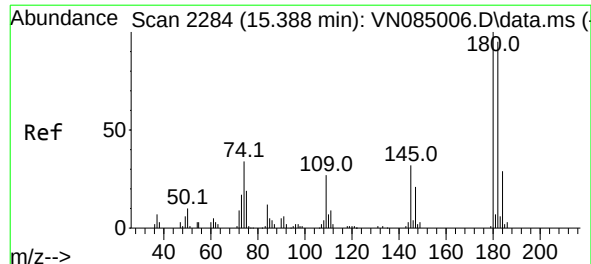
Delta R.T. -0.006 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Tgt Ion:	75	Resp:	2703
Ion	Ratio	Lower	Upper
75	100		
155	71.9	38.9	116.7
157	97.4	48.3	144.9





#93

1,2,4-Trichlorobenzene

Concen: 4.992 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

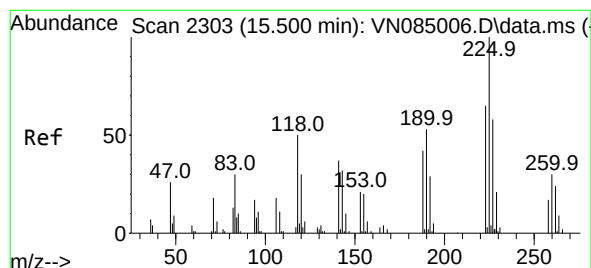
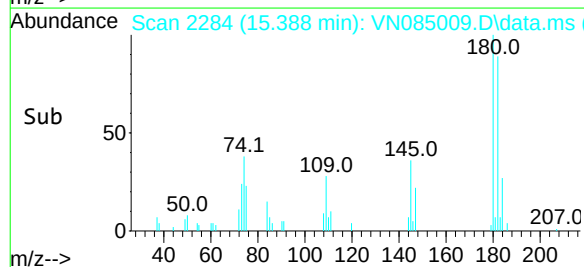
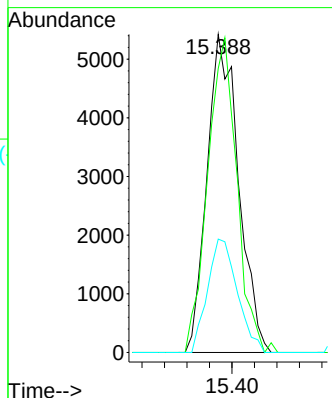
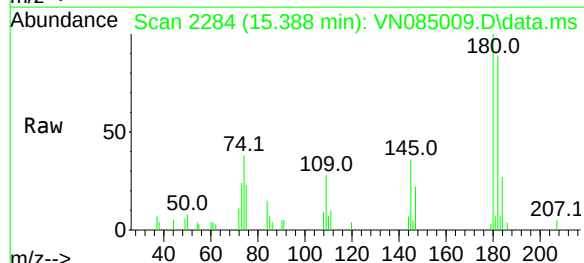
ClientSampleId :

VSTDIC005

Tgt	Ion:180	Resp:	10547
Ion	Ratio	Lower	Upper
180	100		
182	92.0	46.9	140.8
145	33.7	16.3	48.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#94

Hexachlorobutadiene

Concen: 5.272 ug/l

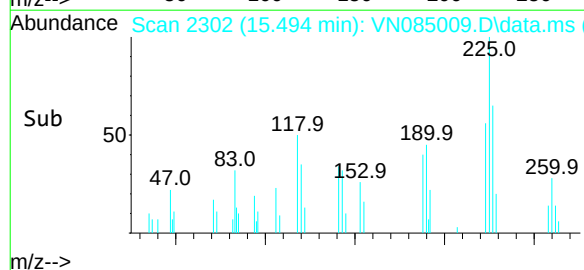
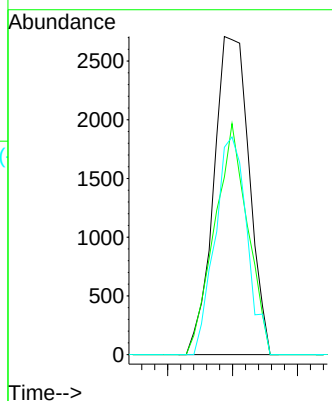
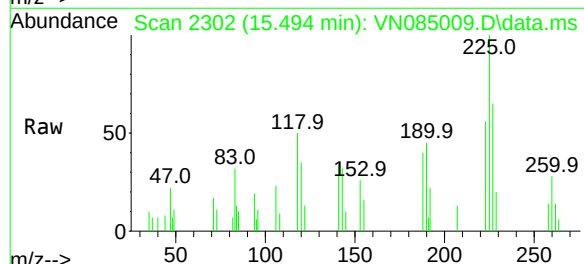
RT: 15.494 min Scan# 2302

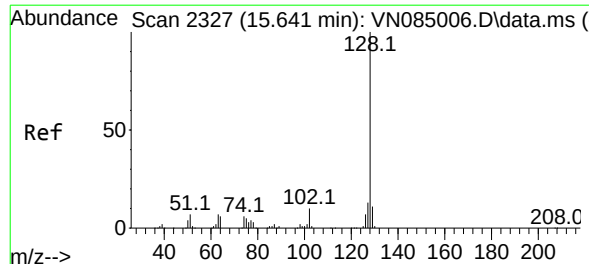
Delta R.T. -0.006 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Tgt	Ion:225	Resp:	5141
Ion	Ratio	Lower	Upper
225	100		
223	67.7	30.9	92.8
227	62.0	31.5	94.5





#95

Naphthalene

Concen: 4.832 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Instrument :

MSVOA_N

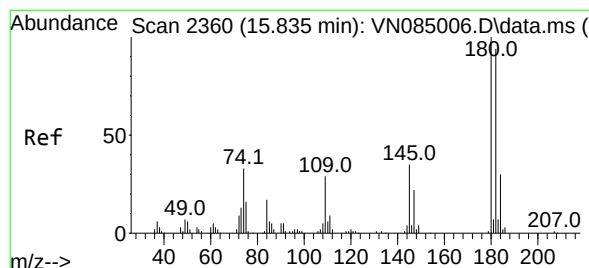
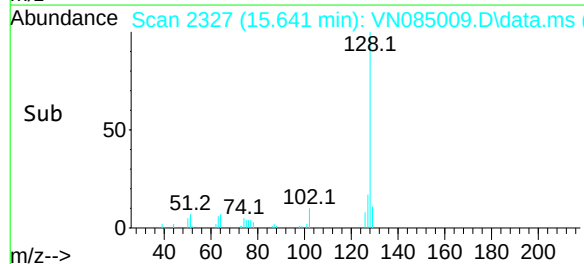
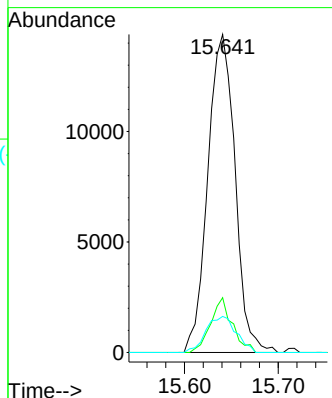
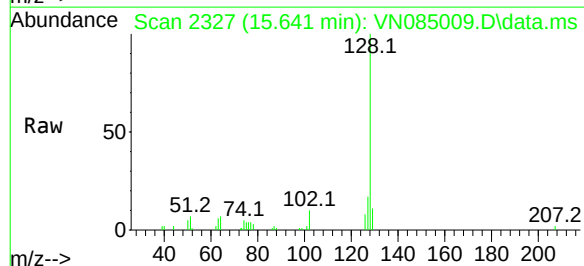
ClientSampleId :

VSTDICC005

Tgt Ion:	128	Resp:	29077
Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.6	16.0
129	12.6	8.6	12.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#96

1,2,3-Trichlorobenzene

Concen: 4.981 ug/l

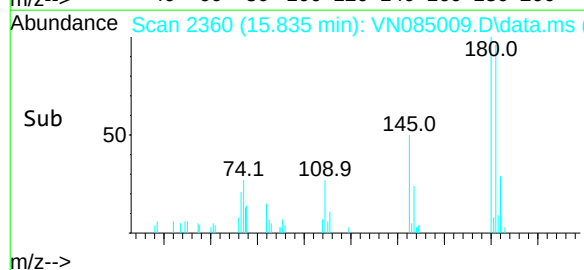
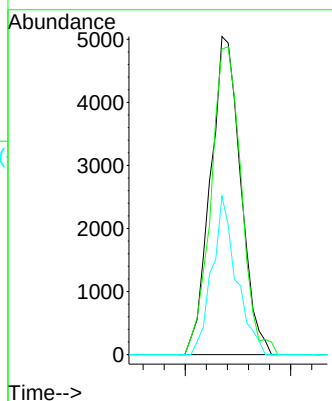
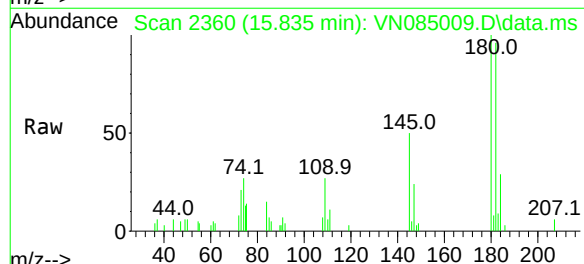
RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN085009.D

Acq: 22 Nov 2024 12:57

Tgt Ion:	180	Resp:	10042
Ion	Ratio	Lower	Upper
180	100		
182	96.9	46.4	139.2
145	40.1	17.3	52.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
 Data File : VN085010.D
 Acq On : 22 Nov 2024 13:45
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC001

Manual Integrations APPROVED

Reviewed By : John Carlone 11/25/2024
 Supervised By : Mahesh Dadoda 11/25/2024

Quant Time: Nov 23 02:01:57 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 23 01:56:57 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	142307	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	255159	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	210265	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	88784	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	1589	0.987	ug/l	91
3) Chloromethane	2.359	50	2580	1.382	ug/l #	86
4) Vinyl Chloride	2.518	62	1730	1.031	ug/l #	81
6) Chloroethane	3.077	64	1303m	1.153	ug/l	
7) Trichlorofluoromethane	3.453	101	2950	1.034	ug/l	99
8) Diethyl Ether	3.953	74	898	0.925	ug/l	90
9) 1,1,2-Trichlorotrifluo...	4.365	101	1632m	1.009	ug/l	
12) 1,1-Dichloroethene	4.324	96	1511	1.000	ug/l #	61
14) Allyl chloride	5.012	41	2663	1.046	ug/l	98
15) Acrylonitrile	5.718	53	4314	5.625	ug/l #	75
16) Acetone	4.442	43	2973	5.036	ug/l #	69
17) Carbon Disulfide	4.694	76	5206	1.168	ug/l #	84
18) Methyl Acetate	5.030	43	3542m	0.747	ug/l	
19) Methyl tert-butyl Ether	5.789	73	4765m	0.966	ug/l	
20) Methylene Chloride	5.271	84	2130m	1.182	ug/l	
21) trans-1,2-Dichloroethene	5.783	96	1624	1.022	ug/l	95
22) Diisopropyl ether	6.665	45	5194	1.014	ug/l	96
23) Vinyl Acetate	6.600	43	16519	4.672	ug/l	99
24) 1,1-Dichloroethane	6.559	63	3177	1.036	ug/l #	83
25) 2-Butanone	7.477	43	5363	5.556	ug/l #	89
26) 2,2-Dichloropropane	7.494	77	3083	1.077	ug/l	86
27) cis-1,2-Dichloroethene	7.477	96	2074	1.082	ug/l	88
28) Bromochloromethane	7.806	49	1248	1.078	ug/l #	94
29) Tetrahydrofuran	7.835	42	3038	5.061	ug/l	90
30) Chloroform	7.959	83	3824	1.172	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	3231	1.096	ug/l #	48
36) 1,1-Dichloropropene	8.365	75	2304	0.989	ug/l #	87
37) Ethyl Acetate	7.547	43	2101	0.992	ug/l #	67
38) Carbon Tetrachloride	8.359	117	2554	0.949	ug/l	92
39) Methylcyclohexane	9.600	83	1948	0.804	ug/l	89
40) Benzene	8.600	78	7459	1.012	ug/l #	83
41) Methacrylonitrile	7.777	41	1263	1.077	ug/l #	70
42) 1,2-Dichloroethane	8.671	62	2512	0.996	ug/l	81
43) Isopropyl Acetate	8.688	43	5905m	1.342	ug/l	
44) Trichloroethene	9.347	130	1685	0.984	ug/l	74
45) 1,2-Dichloropropane	9.618	63	1911	1.053	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
 Data File : VN085010.D
 Acq On : 22 Nov 2024 13:45
 Operator : JC\MD
 Sample : VSTDIC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/25/2024
 Supervised By : Mahesh Dadoda 11/25/2024

Quant Time: Nov 23 02:01:57 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 23 01:56:57 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	9.706	93	1327	1.052	ug/l	100
47) Bromodichloromethane	9.894	83	2757	1.031	ug/l #	72
48) Methyl methacrylate	9.682	41	1550	0.946	ug/l	91
49) 1,4-Dioxane	9.700	88	553	19.470	ug/l #	54
51) 4-Methyl-2-Pentanone	10.441	43	9203	4.578	ug/l	93
52) Toluene	10.624	92	3979	0.912	ug/l	92
53) t-1,3-Dichloropropene	10.829	75	2680	1.000	ug/l	89
54) cis-1,3-Dichloropropene	10.312	75	2759	0.970	ug/l	94
55) 1,1,2-Trichloroethane	11.012	97	1536	0.945	ug/l #	79
56) Ethyl methacrylate	10.876	69	1888	0.795	ug/l	97
57) 1,3-Dichloropropane	11.165	76	2917	1.020	ug/l	97
58) 2-Chloroethyl Vinyl ether	10.159	63	4254	3.651	ug/l	98
59) 2-Hexanone	11.200	43	6264	4.166	ug/l	90
60) Dibromochloromethane	11.359	129	2099	1.057	ug/l	93
61) 1,2-Dibromoethane	11.465	107	1648	0.980	ug/l	98
64) Tetrachloroethene	11.100	164	1291	0.911	ug/l #	88
65) Chlorobenzene	11.888	112	5217	1.094	ug/l #	81
66) 1,1,1,2-Tetrachloroethane	11.965	131	1639	0.976	ug/l #	62
67) Ethyl Benzene	11.959	91	6914	0.894	ug/l #	85
68) m/p-Xylenes	12.070	106	5269	1.789	ug/l	91
69) o-Xylene	12.400	106	2514	0.897	ug/l	82
70) Styrene	12.406	104	3871	0.831	ug/l	99
71) Bromoform	12.576	173	1215	0.975	ug/l #	92
73) Isopropylbenzene	12.688	105	5637	0.900	ug/l	99
74) N-amyl acetate	12.494	43	2377	0.921	ug/l #	90
75) 1,1,2,2-Tetrachloroethane	12.929	83	2694	1.260	ug/l #	82
76) 1,2,3-Trichloropropane	12.988	75	1816m	1.093	ug/l	
77) Bromobenzene	12.982	156	1903	1.129	ug/l	86
78) n-propylbenzene	13.029	91	6275	0.869	ug/l	97
79) 2-Chlorotoluene	13.123	91	4935	1.023	ug/l	94
80) 1,3,5-Trimethylbenzene	13.170	105	4473	0.851	ug/l	98
82) 4-Chlorotoluene	13.223	91	5286	1.053	ug/l	92
83) tert-Butylbenzene	13.435	119	4357	0.963	ug/l	91
84) 1,2,4-Trimethylbenzene	13.482	105	4802	0.888	ug/l	100
85) sec-Butylbenzene	13.612	105	5284	0.865	ug/l	99
86) p-Isopropyltoluene	13.729	119	4047	0.803	ug/l	88
87) 1,3-Dichlorobenzene	13.729	146	4131	1.243	ug/l	86
88) 1,4-Dichlorobenzene	13.806	146	4149m	1.223	ug/l	
89) n-Butylbenzene	14.053	91	4981	1.062	ug/l	92
90) Hexachloroethane	14.329	117	1217	1.107	ug/l #	52
91) 1,2-Dichlorobenzene	14.100	146	3830	1.202	ug/l	96
92) 1,2-Dibromo-3-Chloropr...	14.723	75	470	1.136	ug/l	98
93) 1,2,4-Trichlorobenzene	15.400	180	2092	1.209	ug/l	93
94) Hexachlorobutadiene	15.494	225	987	1.236	ug/l	80
95) Naphthalene	15.641	128	5242	1.063	ug/l	98
96) 1,2,3-Trichlorobenzene	15.835	180	1849	1.120	ug/l	94

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

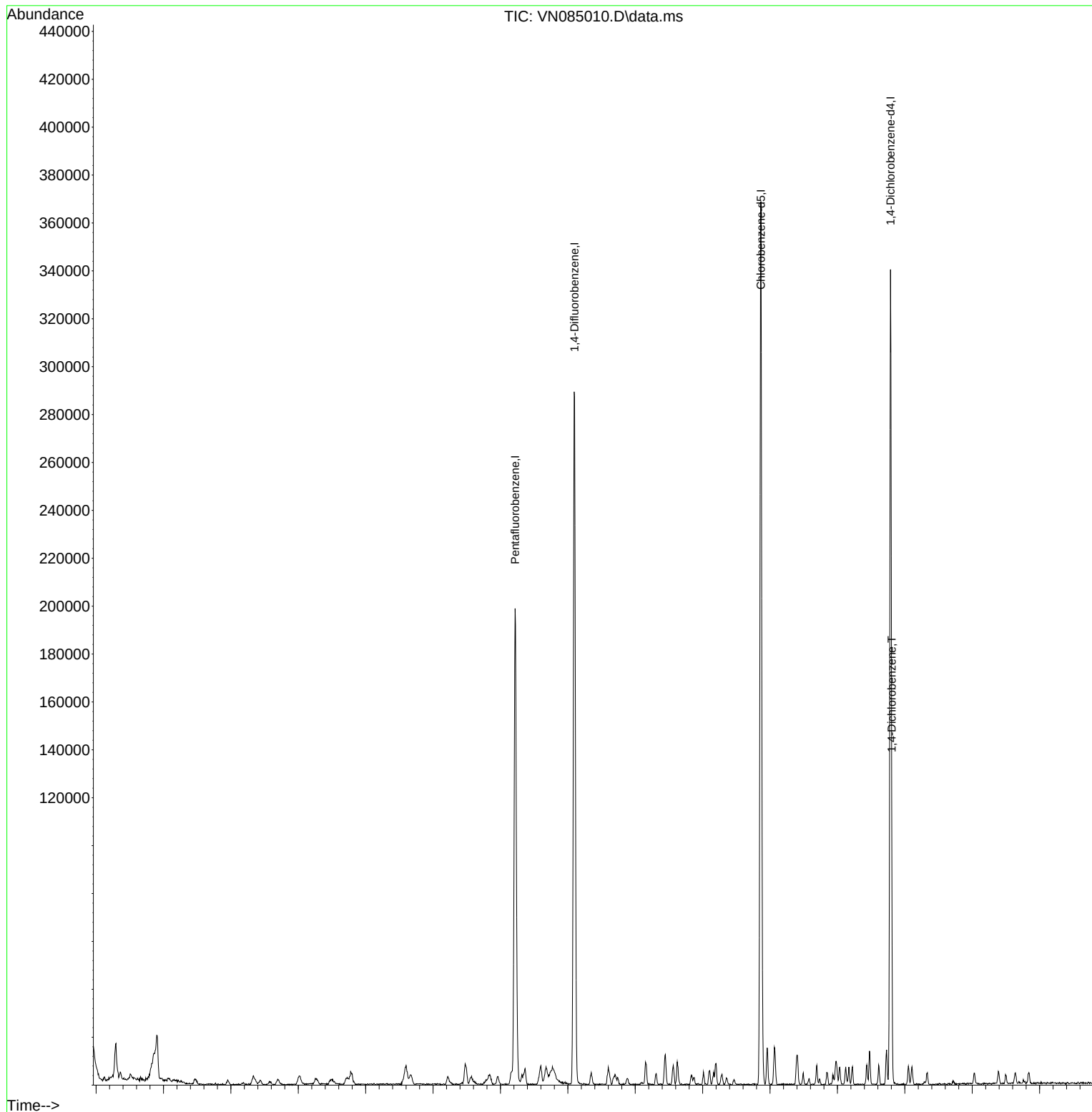
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Data File : VN085010.D
Acq On : 22 Nov 2024 13:45
Operator : JC\MD
Sample : VSTDIC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

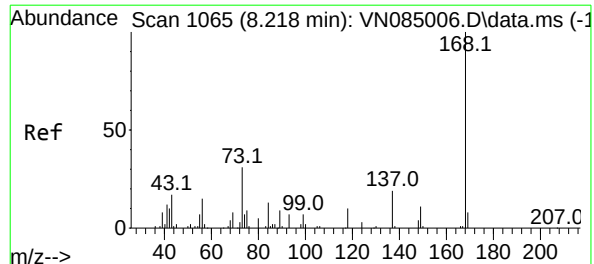
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Manual Integrations
APPROVED

Reviewed By : John Carlone 11/25/2024
Supervised By : Mahesh Dadoda 11/25/2024

Quant Time: Nov 23 02:01:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 2024
Response via : Initial Calibration





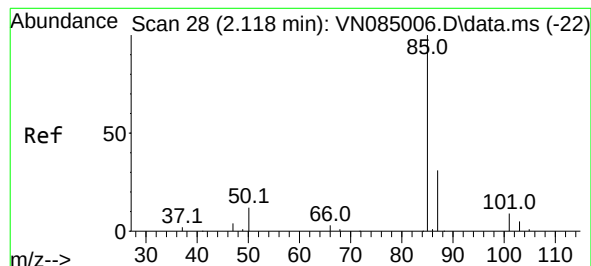
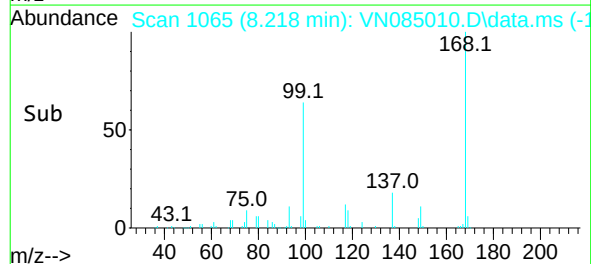
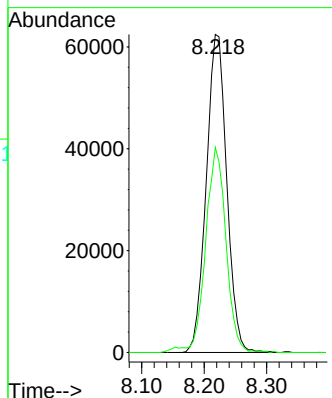
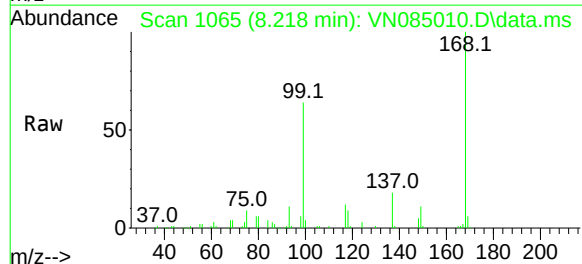
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085010.D
Acq: 22 Nov 2024 13:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:168 Resp: 142307
Ion Ratio Lower Upper
168 100
99 64.5 51.2 76.8

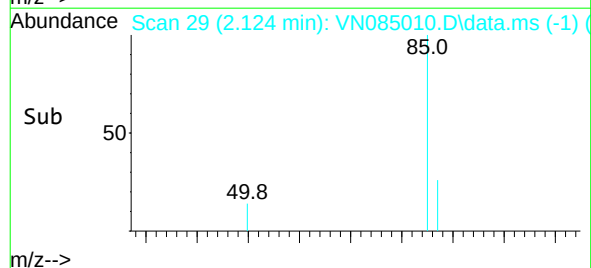
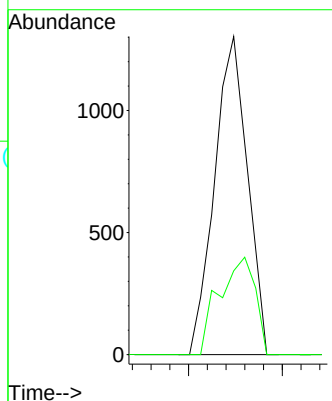
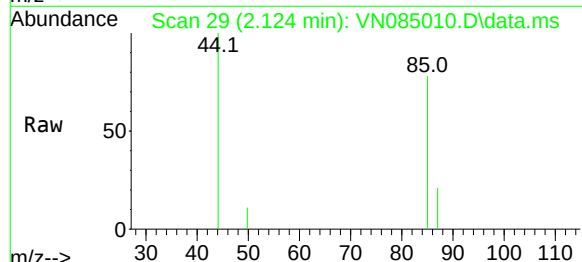
Manual Integrations
APPROVED

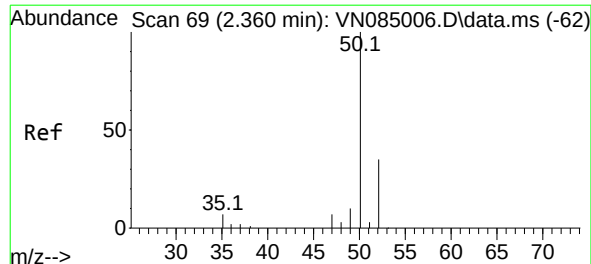
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#2
Dichlorodifluoromethane
Concen: 0.987 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.006 min
Lab File: VN085010.D
Acq: 22 Nov 2024 13:45

Tgt Ion: 85 Resp: 1589
Ion Ratio Lower Upper
85 100
87 26.3 15.7 47.1





#3

Chloromethane

Concen: 1.382 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.000 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 50 Resp: 2580

Ion Ratio Lower Upper

50 100

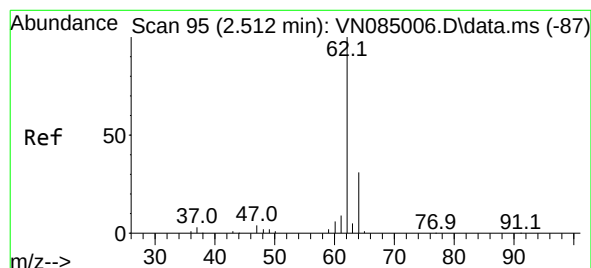
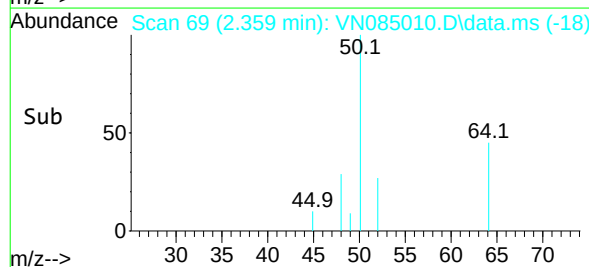
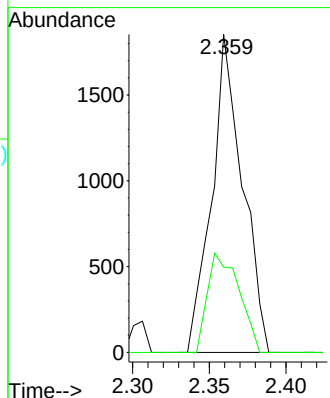
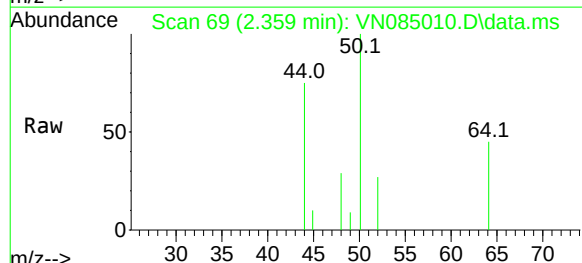
52 26.8 27.8 41.8#

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#4

Vinyl Chloride

Concen: 1.031 ug/l

RT: 2.518 min Scan# 96

Delta R.T. 0.006 min

Lab File: VN085010.D

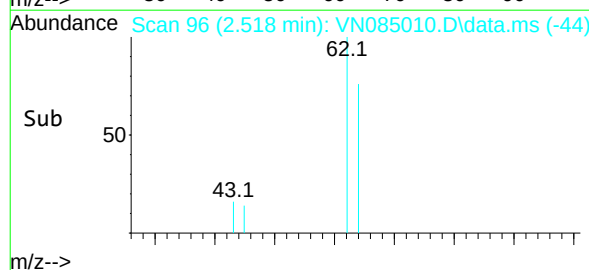
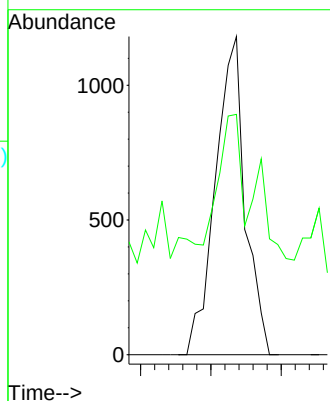
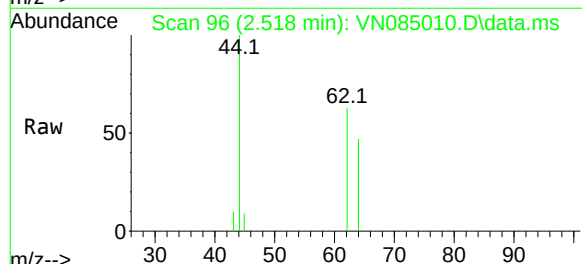
Acq: 22 Nov 2024 13:45

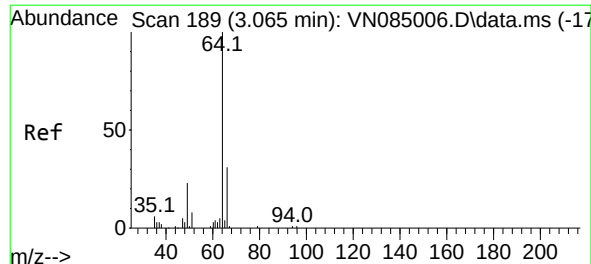
Tgt Ion: 62 Resp: 1730

Ion Ratio Lower Upper

62 100

64 40.9 24.6 36.8#





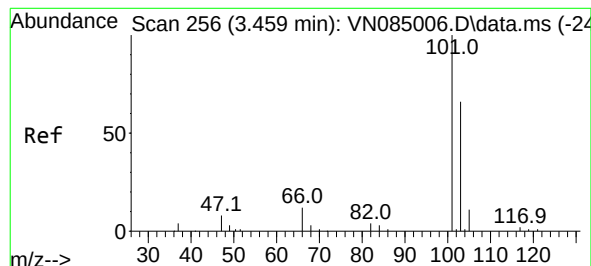
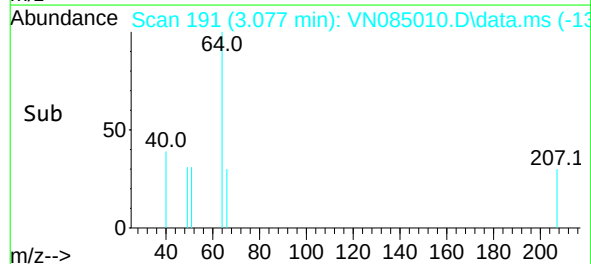
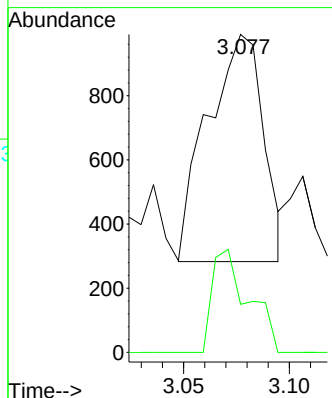
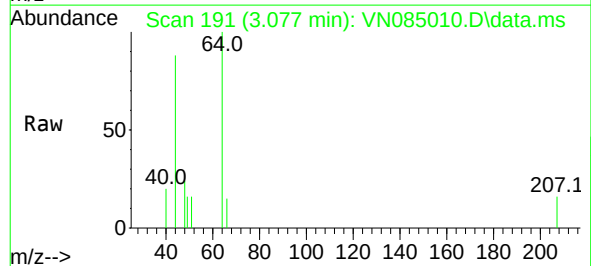
#6
Chloroethane
Concen: 1.153 ug/l m
RT: 3.077 min Scan# 19
Delta R.T. 0.012 min
Lab File: VN085010.D
Acq: 22 Nov 2024 13:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 64 Resp: 1303
Ion Ratio Lower Upper
64 100
66 15.1 24.4 36.6#

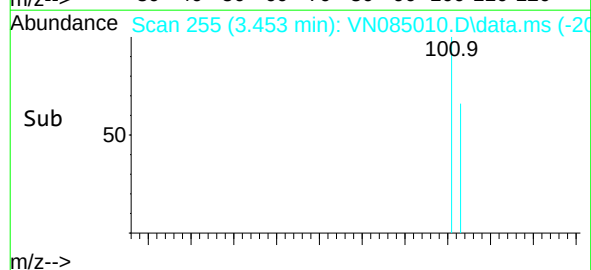
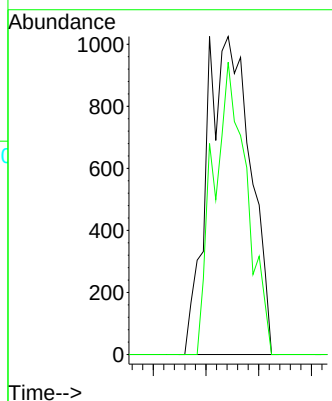
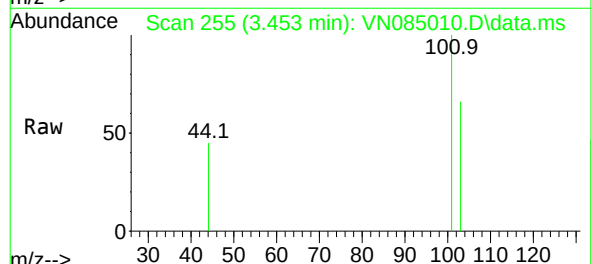
Manual Integrations
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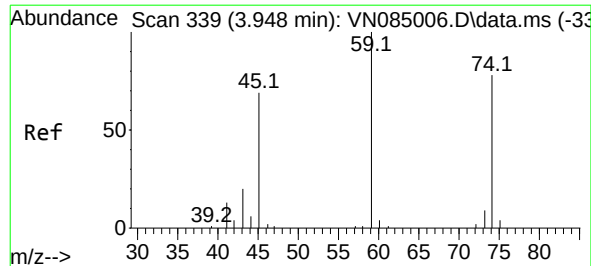
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#7
Trichlorofluoromethane
Concen: 1.034 ug/l
RT: 3.453 min Scan# 255
Delta R.T. -0.006 min
Lab File: VN085010.D
Acq: 22 Nov 2024 13:45

Tgt Ion:101 Resp: 2950
Ion Ratio Lower Upper
101 100
103 66.3 52.6 78.8





#8

Diethyl Ether

Concen: 0.925 ug/l

RT: 3.953 min Scan# 341

Delta R.T. 0.006 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 74 Resp: 898

Ion Ratio Lower Upper

74 100

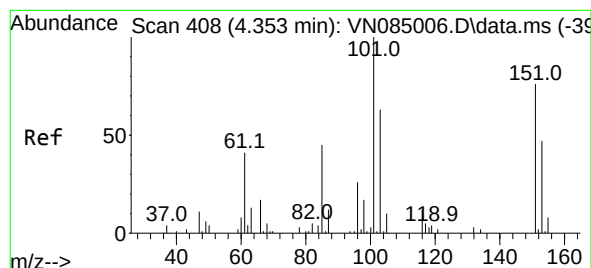
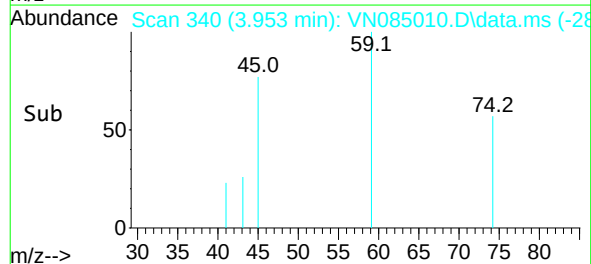
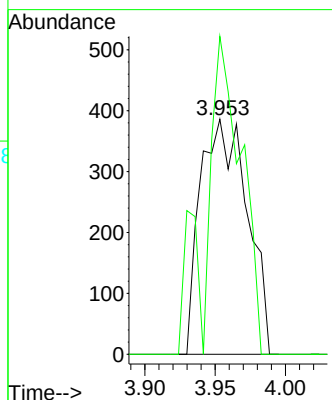
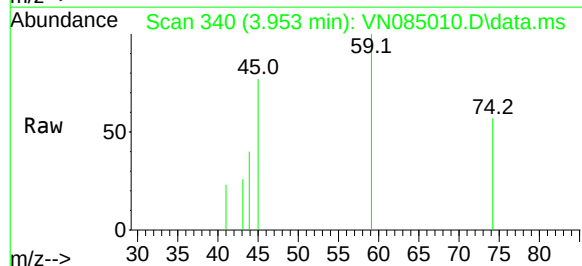
45 103.3 46.7 140.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.009 ug/l m

RT: 4.365 min Scan# 410

Delta R.T. 0.012 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

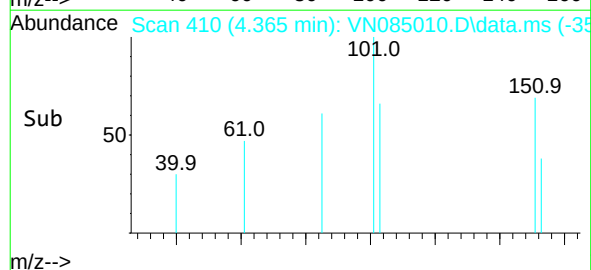
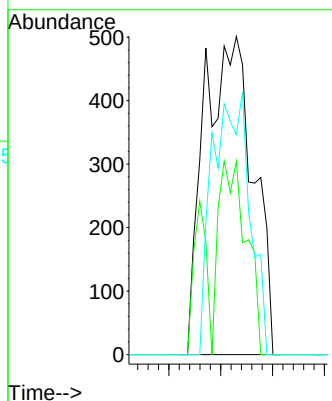
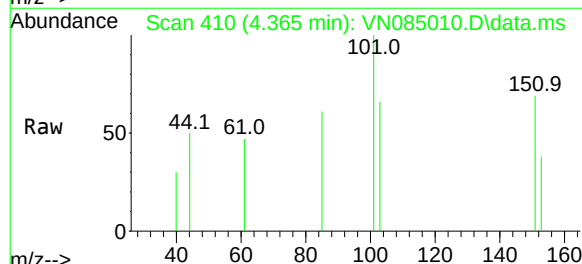
Tgt Ion:101 Resp: 1632

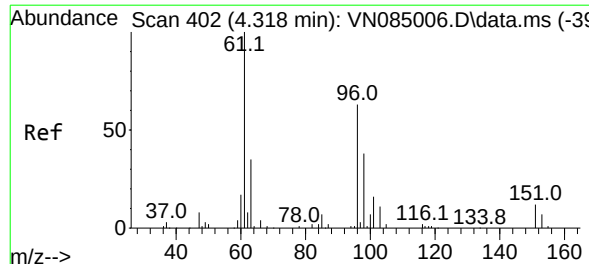
Ion Ratio Lower Upper

101 100

85 34.9 36.9 55.3#

151 62.9 60.8 91.2





#12

1,1-Dichloroethene

Concen: 1.000 ug/l

RT: 4.324 min Scan# 40

Delta R.T. 0.006 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

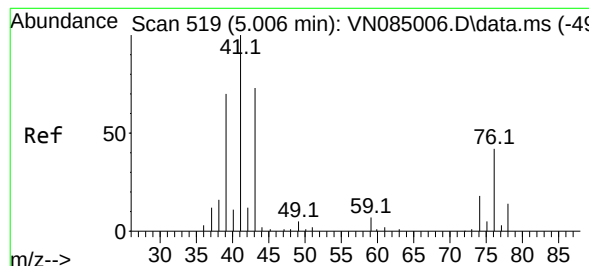
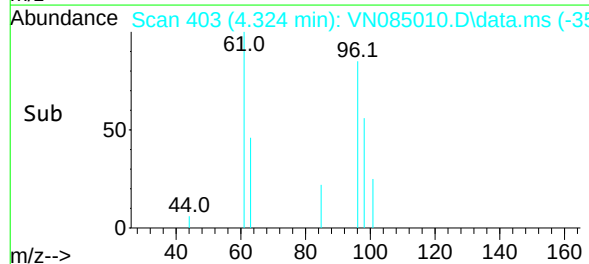
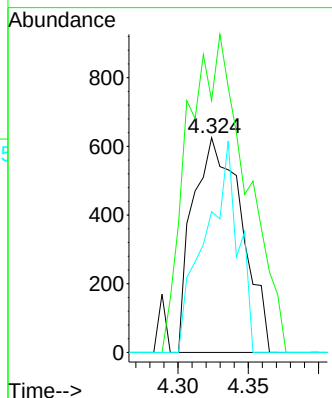
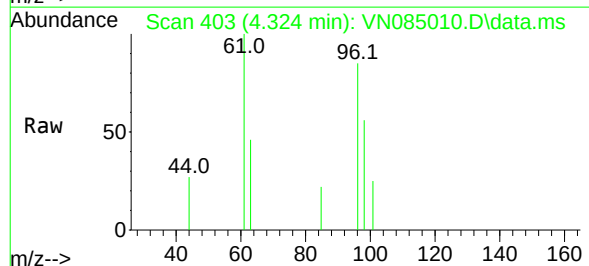
ClientSampleId :

VSTDICC001

Tgt	Ion: 96	Resp:	1511
Ion	Ratio	Lower	Upper
96	100		
61	90.6	127.8	191.8#
98	65.6	49.2	73.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#14

Allyl chloride

Concen: 1.046 ug/l

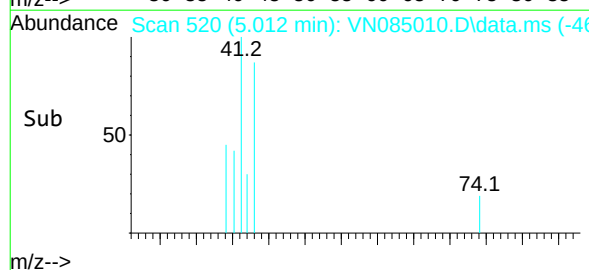
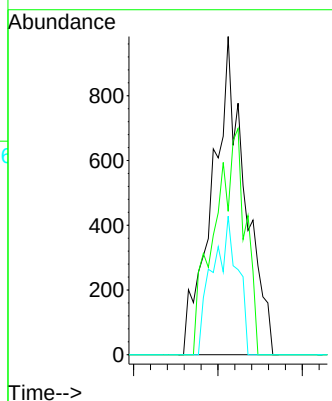
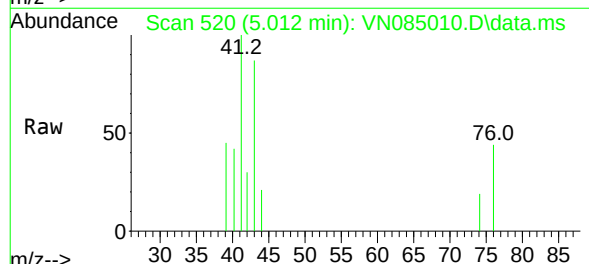
RT: 5.012 min Scan# 520

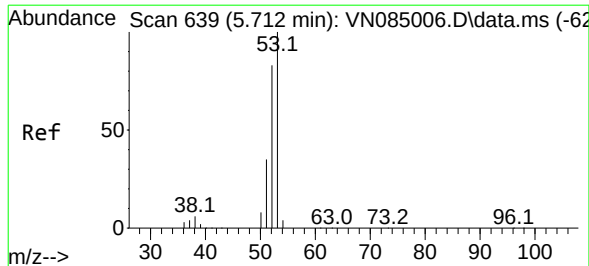
Delta R.T. 0.006 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Tgt	Ion: 41	Resp:	2663
Ion	Ratio	Lower	Upper
41	100		
39	67.4	53.8	80.8
76	33.0	29.3	43.9





#15

Acrylonitrile

Concen: 5.625 ug/l

RT: 5.718 min Scan# 64

Delta R.T. 0.006 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

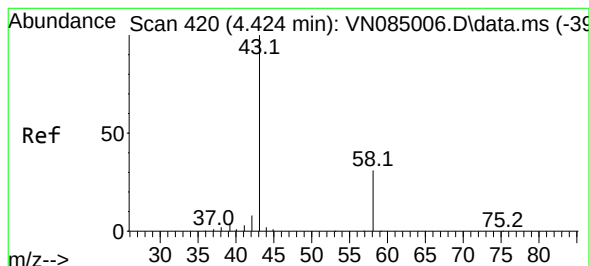
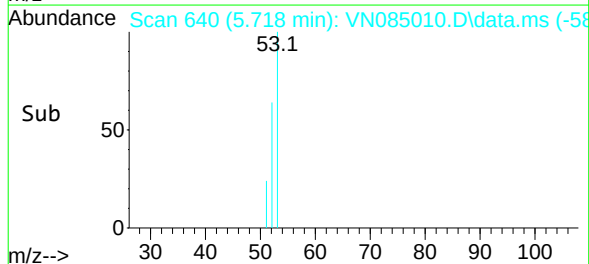
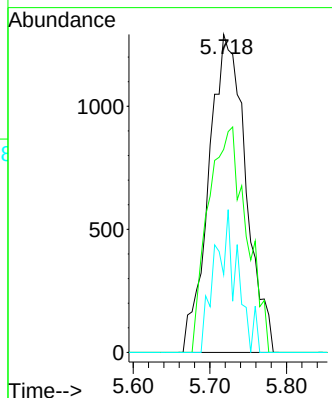
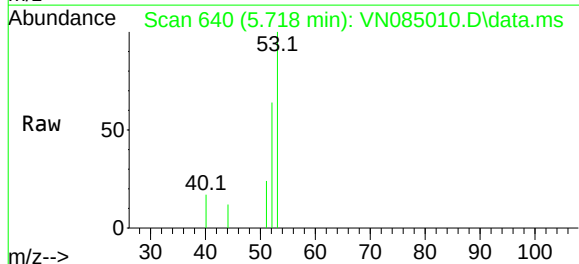
ClientSampleId :

VSTDICC001

Tgt Ion:	53	Resp:	4314
Ion	Ratio	Lower	Upper
53	100		
52	73.5	65.5	98.3
51	0.0	28.4	42.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#16

Acetone

Concen: 5.036 ug/l

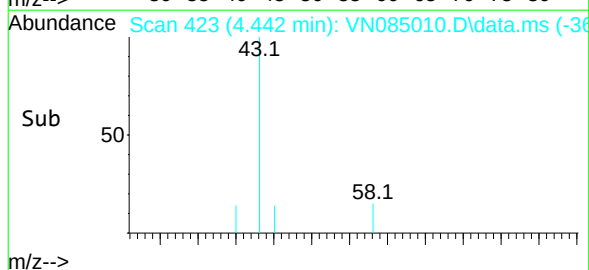
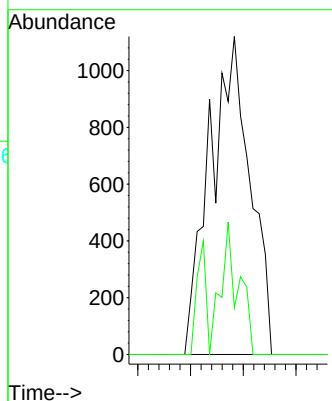
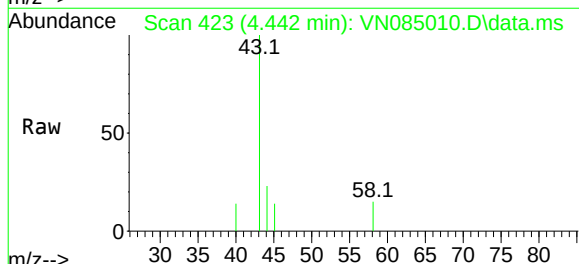
RT: 4.442 min Scan# 423

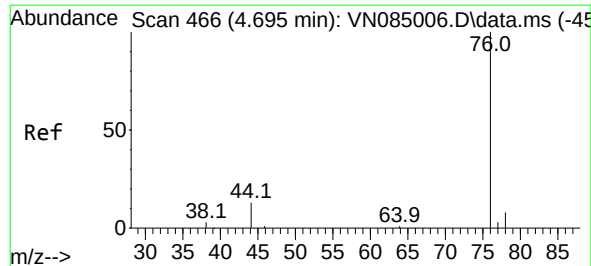
Delta R.T. 0.018 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Tgt Ion:	43	Resp:	2973
Ion	Ratio	Lower	Upper
43	100		
58	14.6	25.4	38.2





#17

Carbon Disulfide

Concen: 1.168 ug/l

RT: 4.694 min Scan# 466

Delta R.T. -0.000 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 76 Resp: 5206

Ion Ratio Lower Upper

76 100

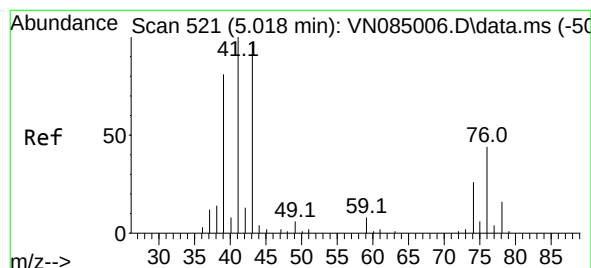
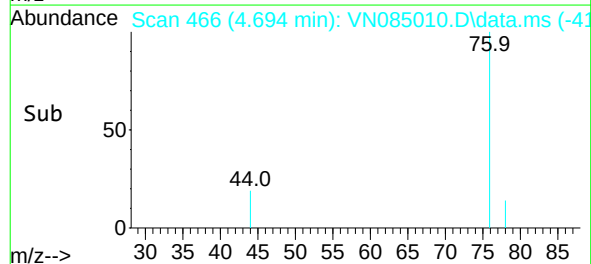
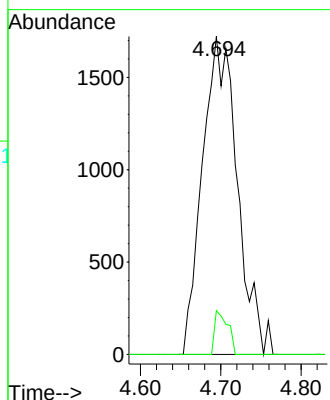
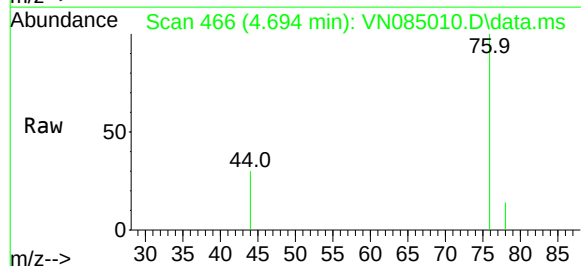
78 13.8 6.5 9.7#

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#18

Methyl Acetate

Concen: 0.747 ug/l m

RT: 5.030 min Scan# 523

Delta R.T. 0.012 min

Lab File: VN085010.D

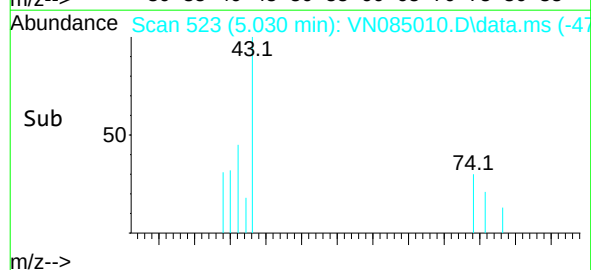
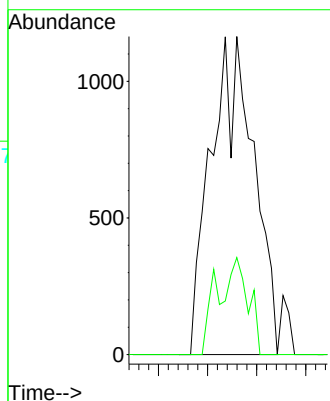
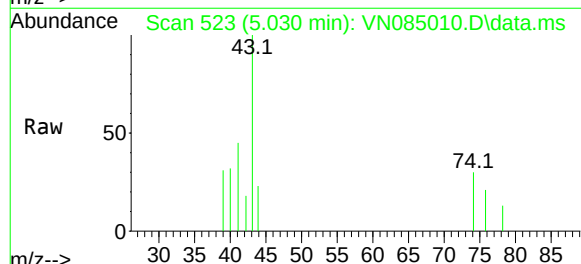
Acq: 22 Nov 2024 13:45

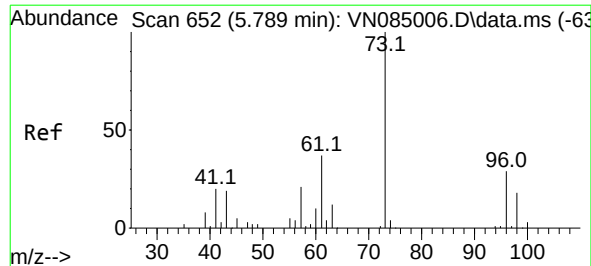
Tgt Ion: 43 Resp: 3542

Ion Ratio Lower Upper

43 100

74 13.1 20.1 30.1#





#19

Methyl tert-butyl Ether

Concen: 0.966 ug/l m

RT: 5.789 min Scan# 65

Delta R.T. -0.000 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 73 Resp: 4765

Ion Ratio Lower Upper

73 100

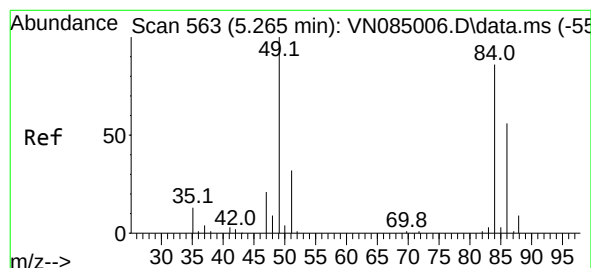
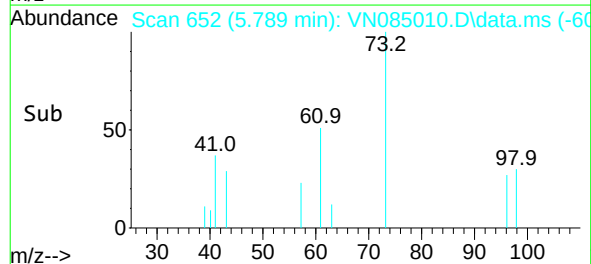
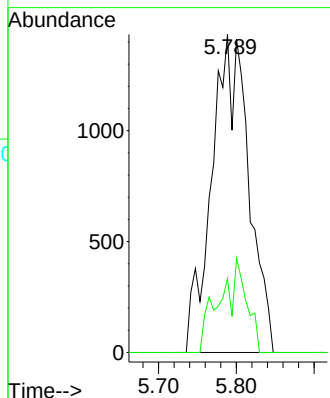
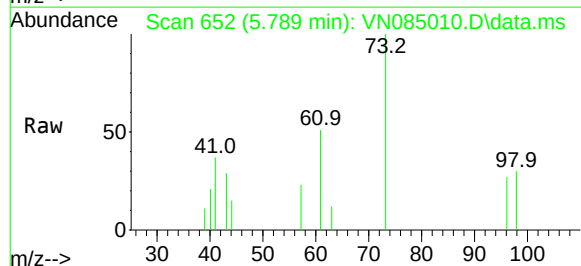
57 23.2 17.0 25.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#20

Methylene Chloride

Concen: 1.182 ug/l m

RT: 5.271 min Scan# 564

Delta R.T. 0.006 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Tgt Ion: 84 Resp: 2130

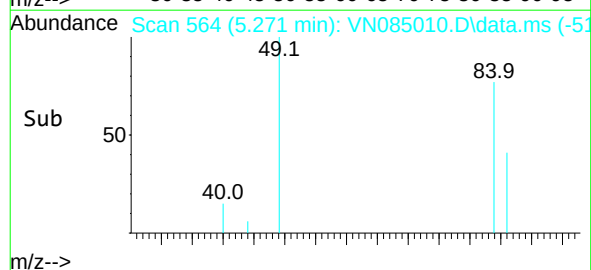
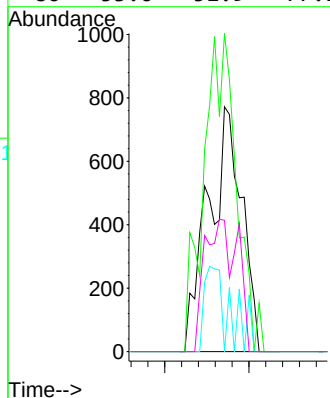
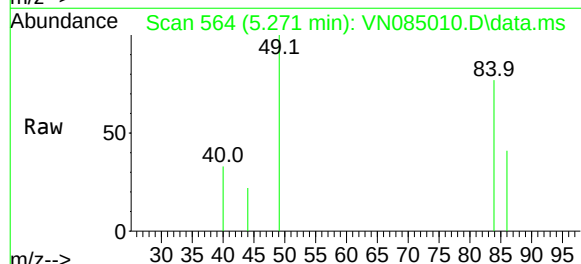
Ion Ratio Lower Upper

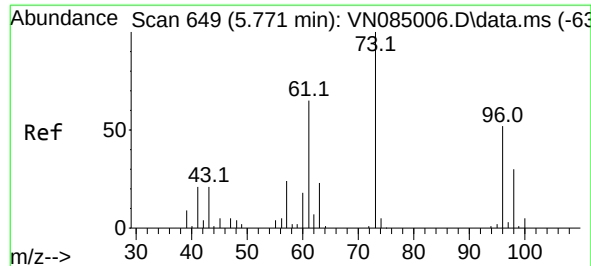
84 100

49 129.9 92.7 139.1

51 0.0 29.4 44.2#

86 53.6 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 1.022 ug/l

RT: 5.783 min Scan# 651

Delta R.T. 0.012 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 96 Resp: 1624

Ion Ratio Lower Upper

96 100

61 122.6 100.7 151.1

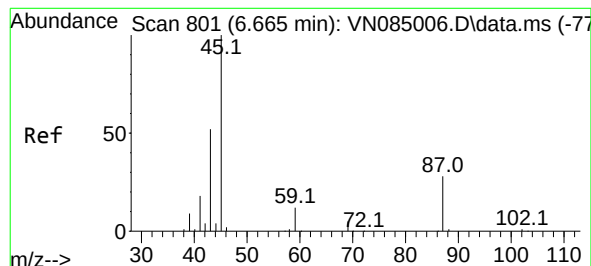
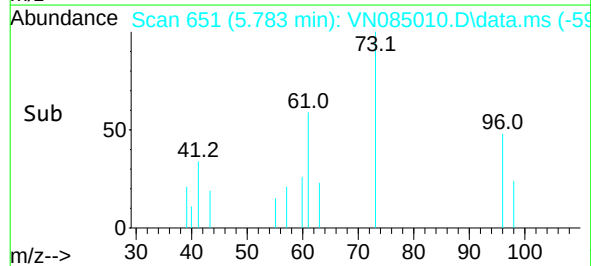
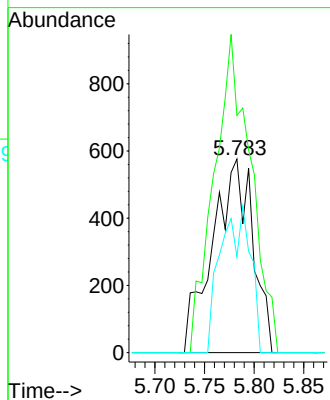
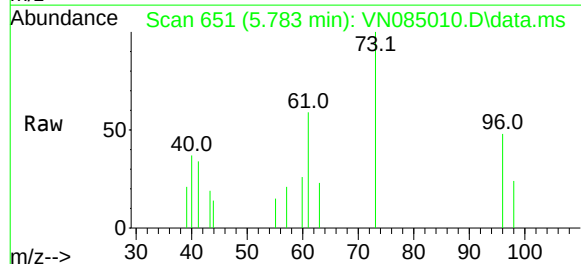
98 49.7 45.8 68.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#22

Diisopropyl ether

Concen: 1.014 ug/l

RT: 6.665 min Scan# 801

Delta R.T. -0.000 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Tgt Ion: 45 Resp: 5194

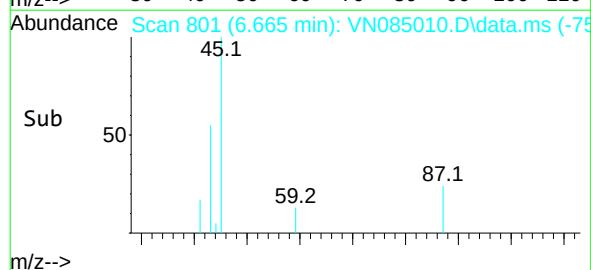
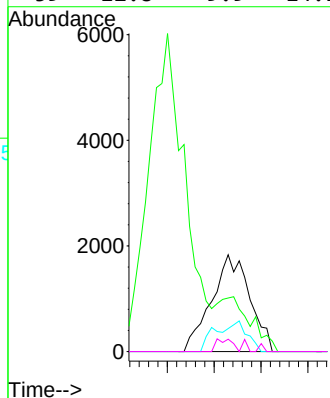
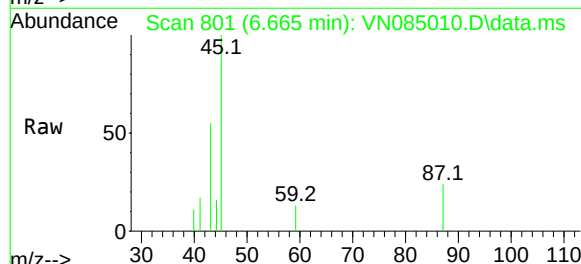
Ion Ratio Lower Upper

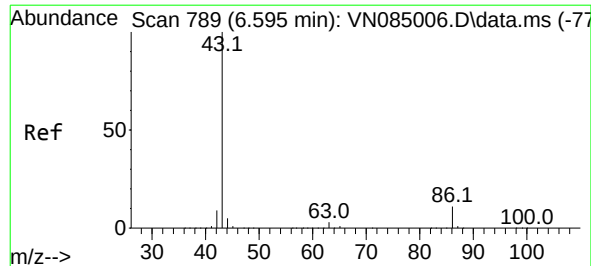
45 100

43 55.3 42.7 64.1

87 23.7 22.6 34.0

59 12.8 9.9 14.9





#23

Vinyl Acetate

Concen: 4.672 ug/l

RT: 6.600 min Scan# 790

Delta R.T. 0.006 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 16519

Ion Ratio Lower Upper

43 100

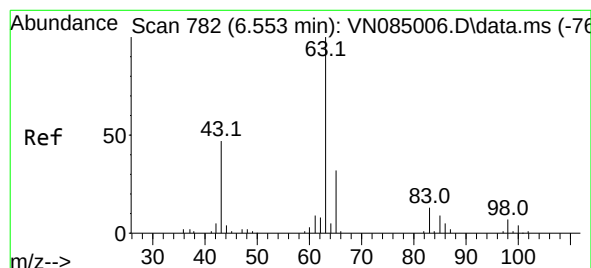
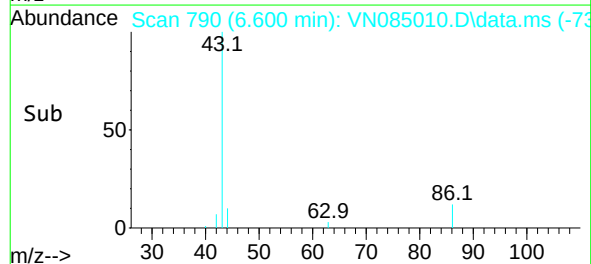
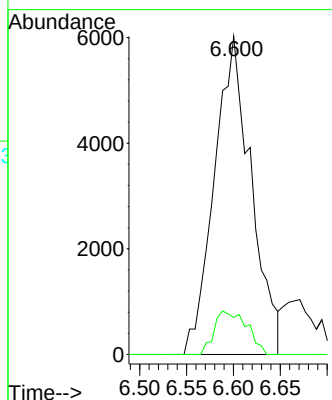
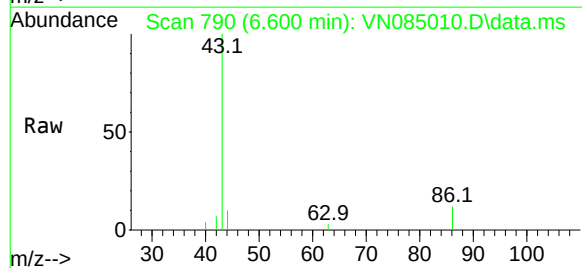
86 11.6 8.9 13.3

Manual Integrations

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Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#24

1,1-Dichloroethane

Concen: 1.036 ug/l

RT: 6.559 min Scan# 783

Delta R.T. 0.006 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

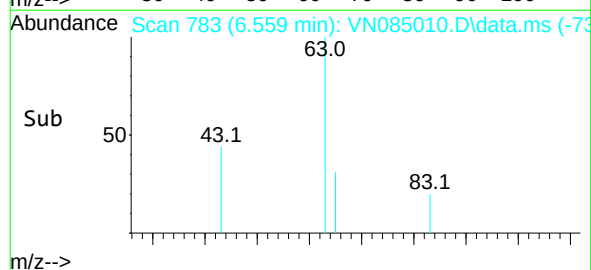
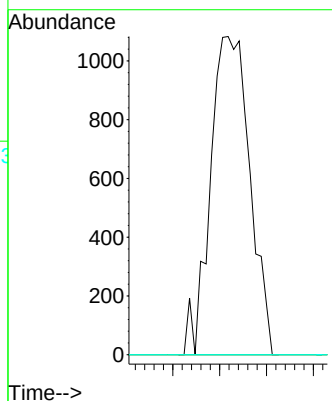
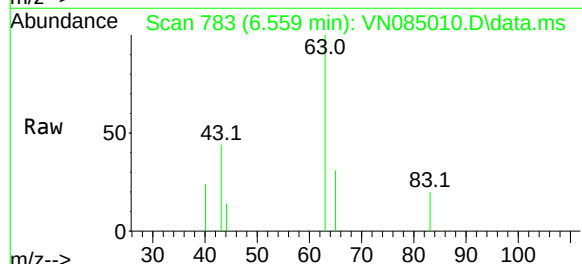
Tgt Ion: 63 Resp: 3177

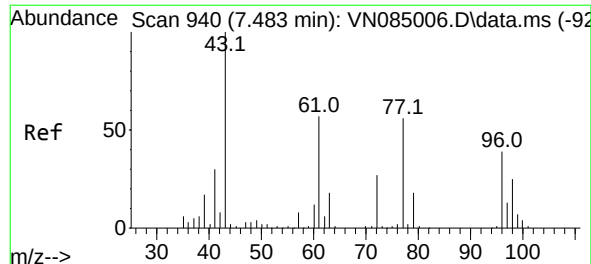
Ion Ratio Lower Upper

63 100

98 0.0 3.3 9.8#

100 0.0 2.2 6.6#





#25

2-Butanone

Concen: 5.556 ug/l

RT: 7.477 min Scan# 93

Delta R.T. -0.006 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 43 Resp: 5363

Ion Ratio Lower Upper

43 100

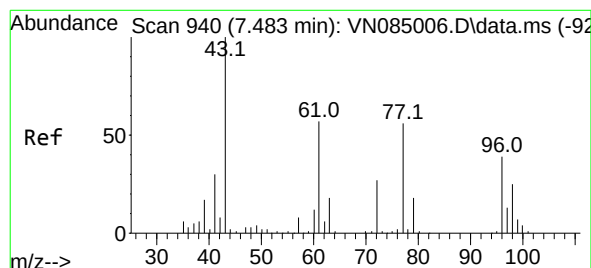
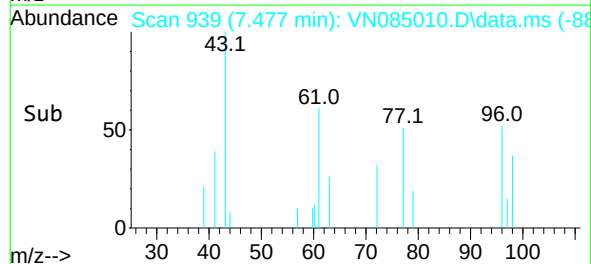
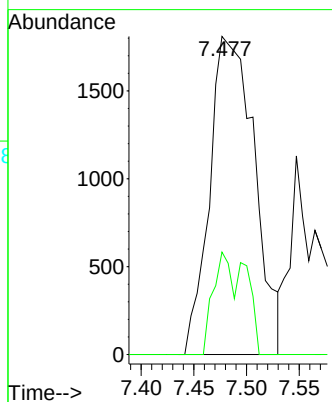
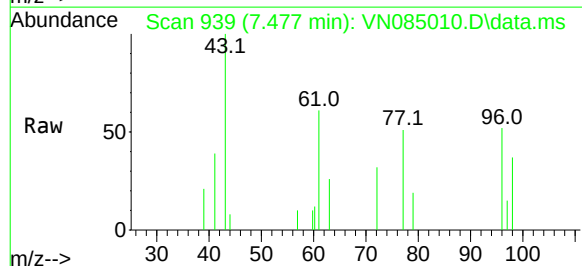
72 32.2 21.4 32.0#

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#26

2,2-Dichloropropane

Concen: 1.077 ug/l

RT: 7.494 min Scan# 942

Delta R.T. 0.012 min

Lab File: VN085010.D

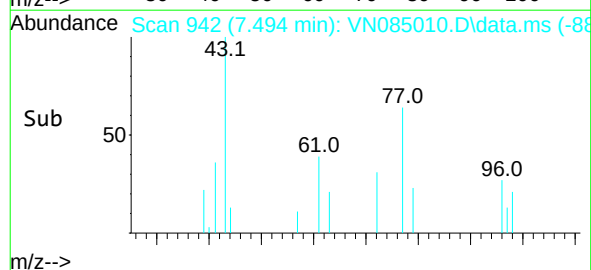
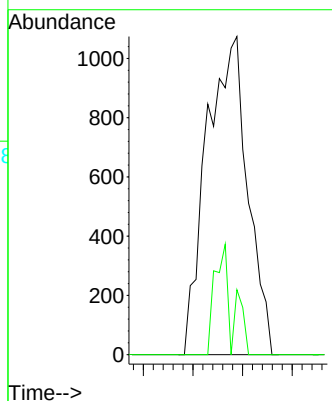
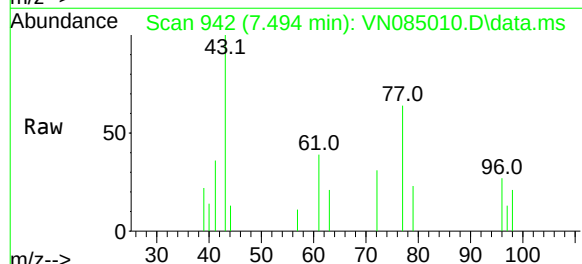
Acq: 22 Nov 2024 13:45

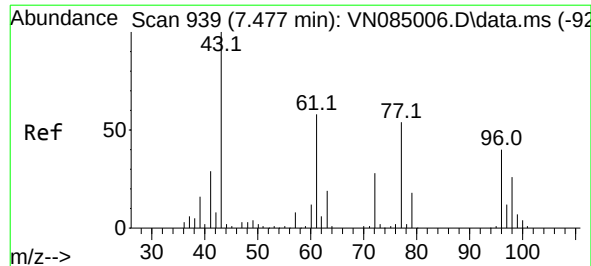
Tgt Ion: 77 Resp: 3083

Ion Ratio Lower Upper

77 100

97 15.0 10.9 32.7





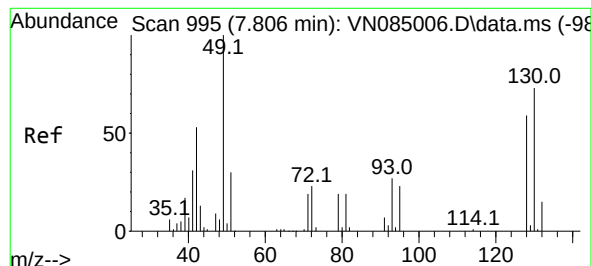
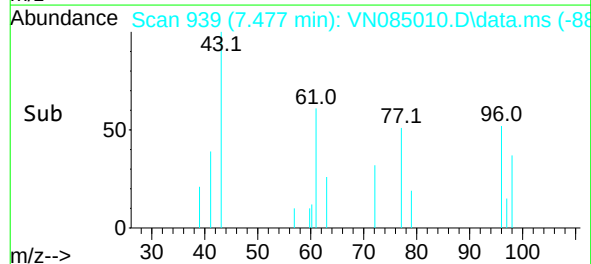
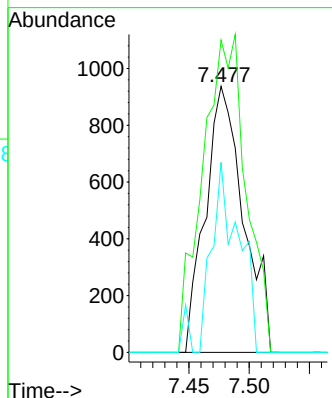
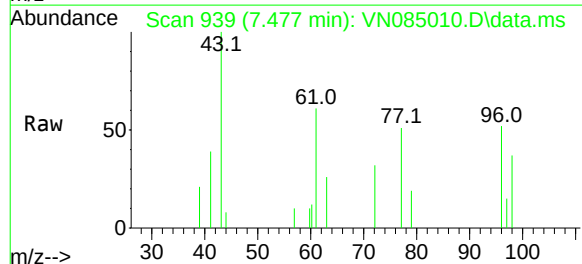
#27
cis-1,2-Dichloroethene
Concen: 1.082 ug/l
RT: 7.477 min Scan# 939
Delta R.T. -0.000 min
Lab File: VN085010.D
Acq: 22 Nov 2024 13:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 2074
Ion Ratio Lower Upper
96 100
61 135.1 0.0 291.6
98 50.5 0.0 129.8

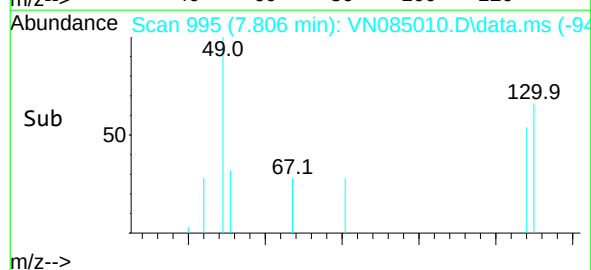
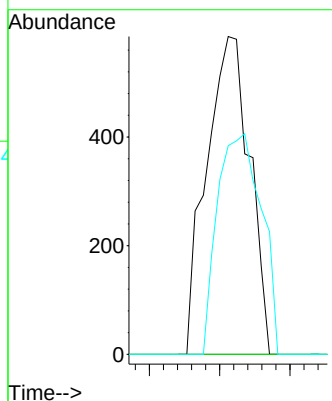
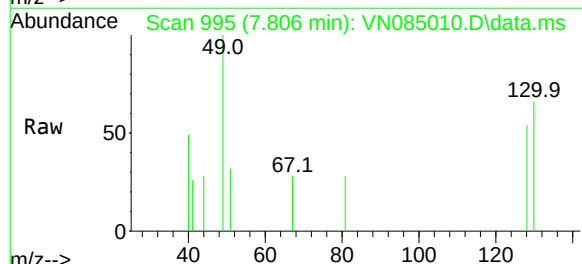
Manual Integrations
APPROVED

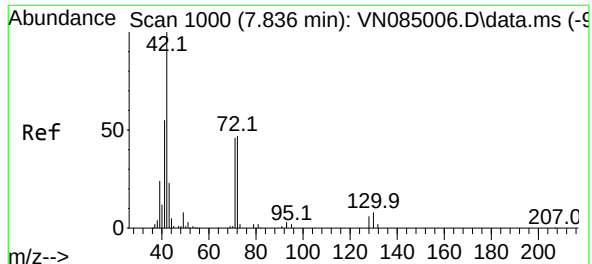
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#28
Bromochloromethane
Concen: 1.078 ug/l
RT: 7.806 min Scan# 995
Delta R.T. -0.000 min
Lab File: VN085010.D
Acq: 22 Nov 2024 13:45

Tgt Ion: 49 Resp: 1248
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.0
130 70.8 60.6 90.8





#29

Tetrahydrofuran

Concen: 5.061 ug/l

RT: 7.835 min Scan# 10

Delta R.T. -0.000 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

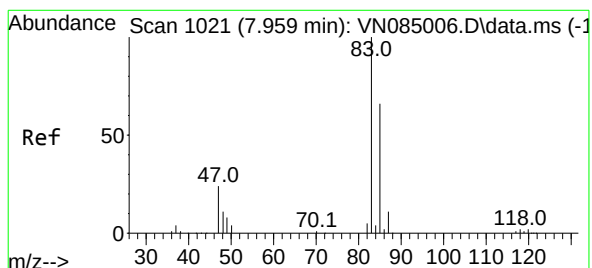
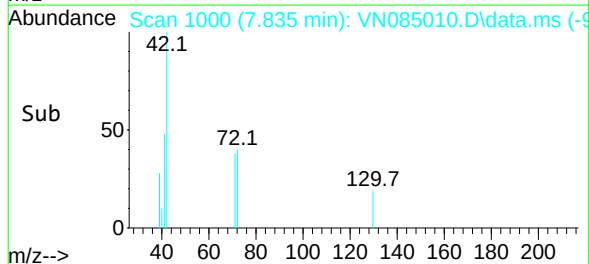
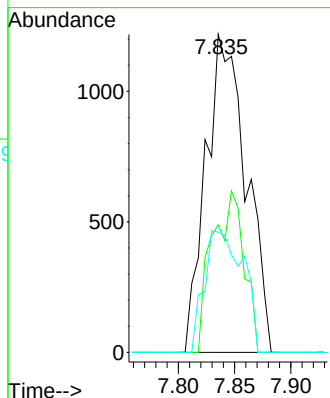
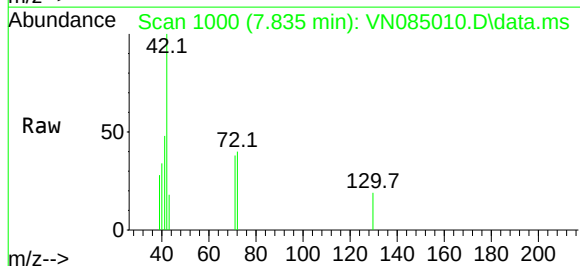
ClientSampleId :

VSTDICC001

Tgt Ion:	42	Resp:	3038
Ion	Ratio	Lower	Upper
42	100		
72	40.1	37.0	55.4
71	36.8	35.0	52.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#30

Chloroform

Concen: 1.172 ug/l

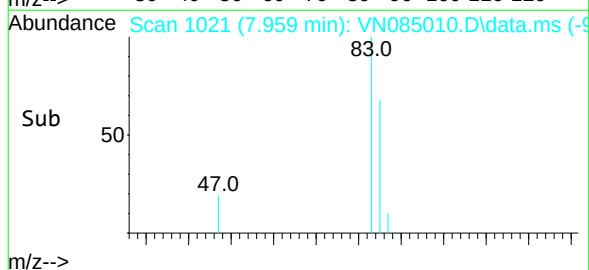
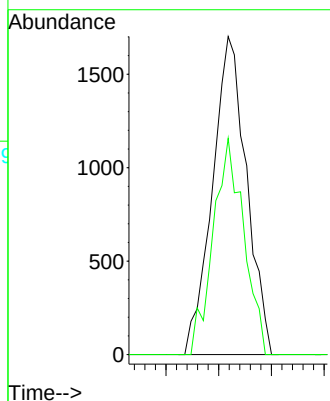
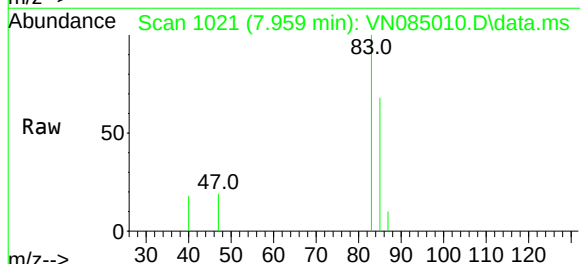
RT: 7.959 min Scan# 1021

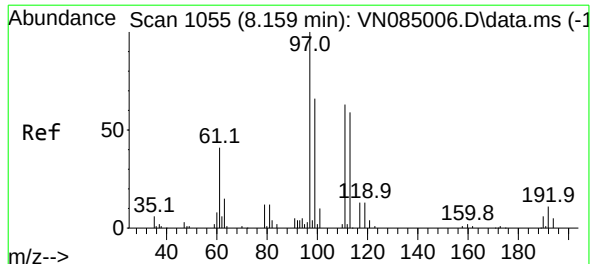
Delta R.T. -0.000 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Tgt Ion:	83	Resp:	3824
Ion	Ratio	Lower	Upper
83	100		
85	68.0	52.6	78.8





#32

1,1,1-Trichloroethane

Concen: 1.096 ug/l

RT: 8.165 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 97 Resp: 3231

Ion Ratio Lower Upper

97 100

99 0.0 51.0 76.4

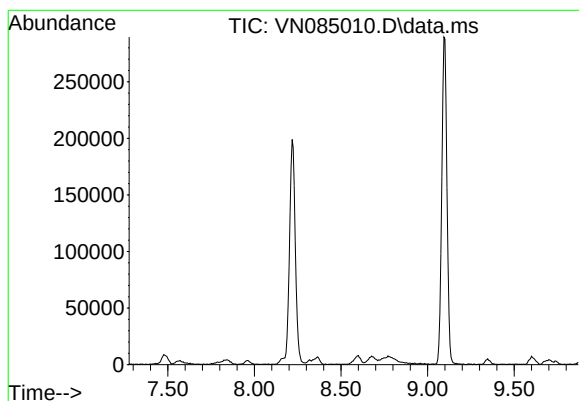
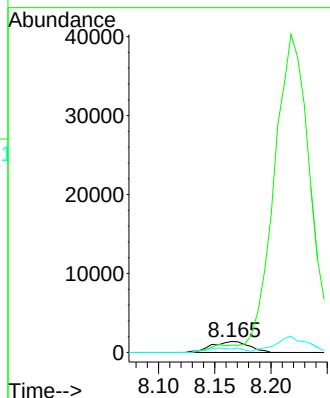
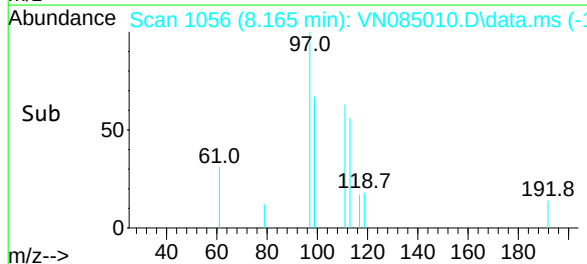
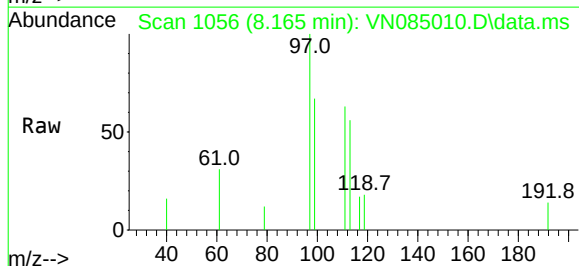
61 38.6 36.2 54.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 8.57 min

Lab File: VN085010.D

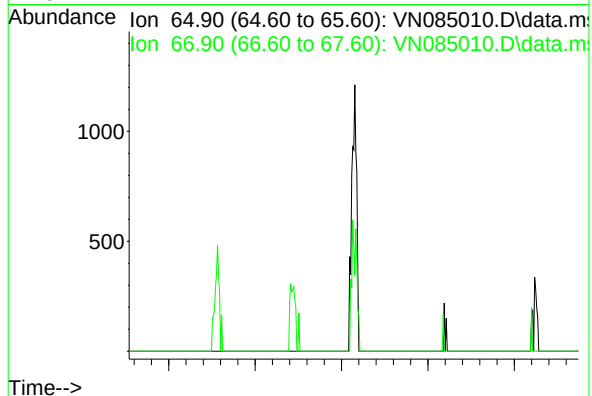
Acq: 22 Nov 2024 13:45

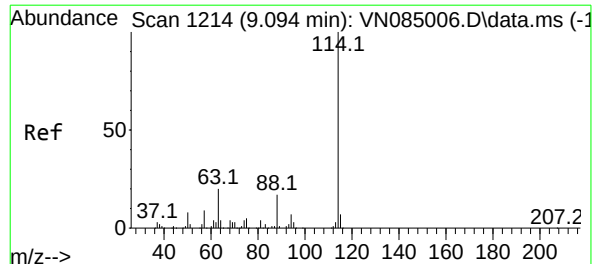
Tgt Ion: 65

Sig Exp Ratio

65 100

67 52.5





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 12

Delta R.T. 0.006 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:114 Resp: 255159

Ion Ratio Lower Upper

114 100

63 21.4 0.0 41.0

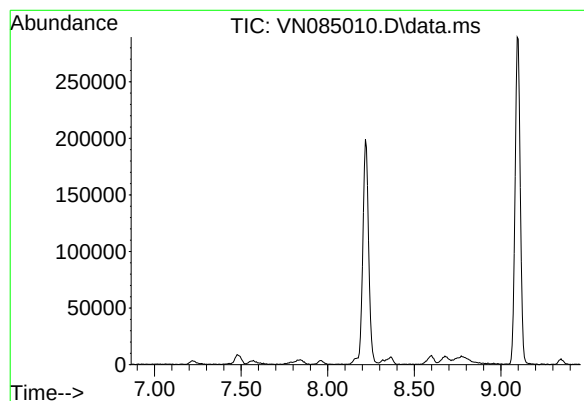
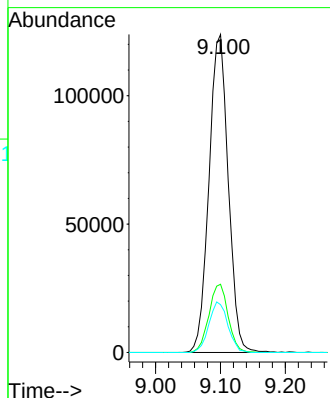
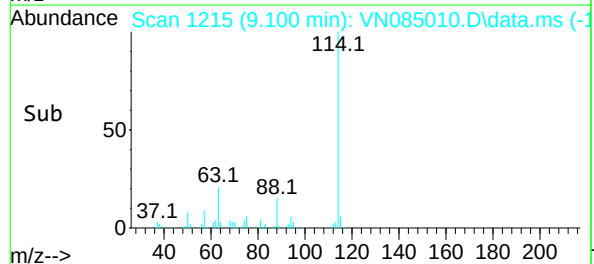
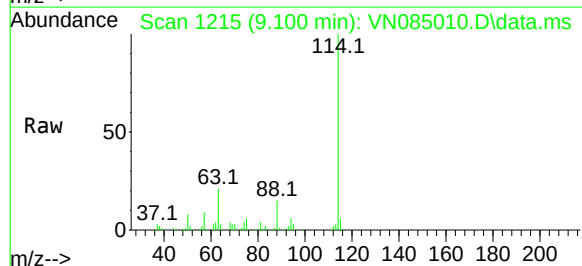
88 15.0 0.0 34.8

Manual Integrations

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Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 8.16 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

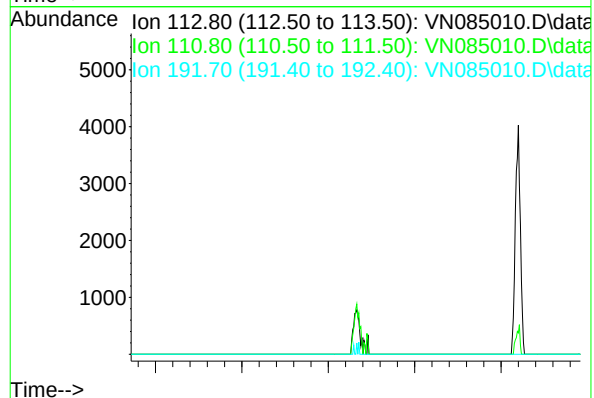
Tgt Ion: 113

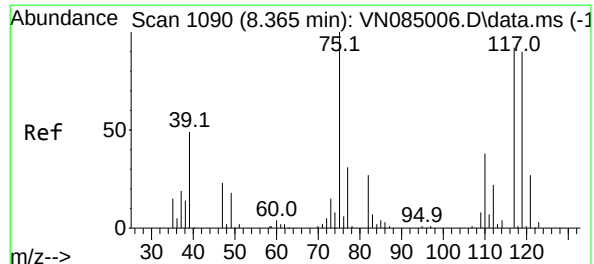
Sig Exp Ratio

113 100

111 102.5

192 18.5





#36

1,1-Dichloropropene

Concen: 0.989 ug/l

RT: 8.365 min Scan# 10

Delta R.T. -0.000 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 75 Resp: 2304

Ion Ratio Lower Upper

75 100

110 26.6 17.2 51.6

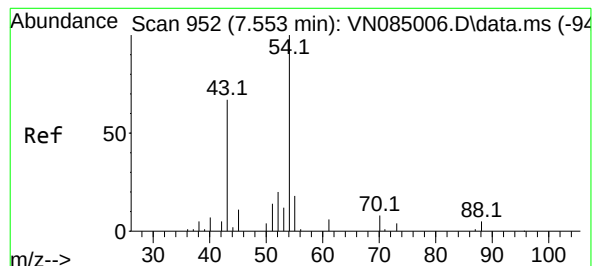
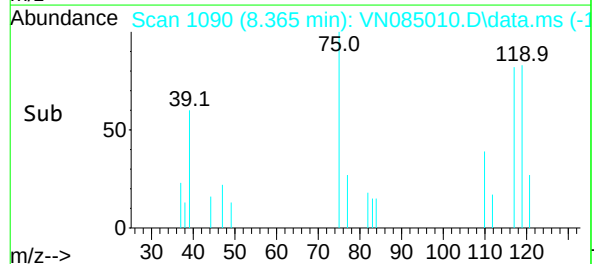
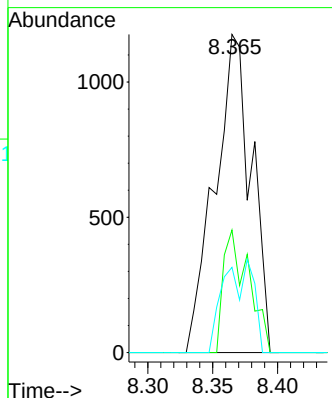
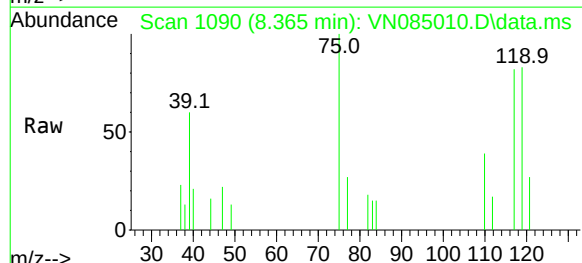
77 23.8 24.2 36.4#

Manual Integrations

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Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#37

Ethyl Acetate

Concen: 0.992 ug/l

RT: 7.547 min Scan# 951

Delta R.T. -0.006 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

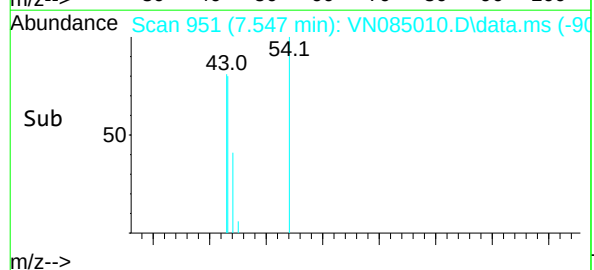
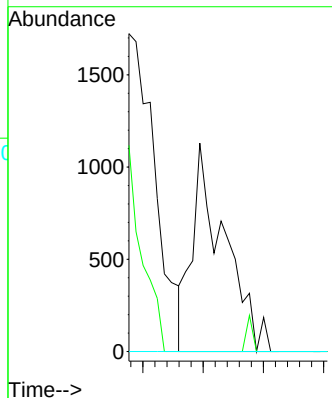
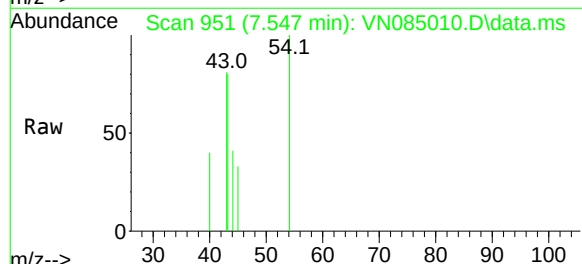
Tgt Ion: 43 Resp: 2101

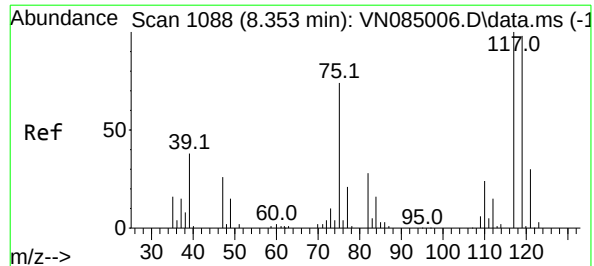
Ion Ratio Lower Upper

43 100

61 0.0 11.7 17.5#

70 0.0 9.3 13.9#





#38

Carbon Tetrachloride

Concen: 0.949 ug/l

RT: 8.359 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 117 Resp: 2554

Ion Ratio Lower Upper

117 100

119 90.7 78.6 117.8

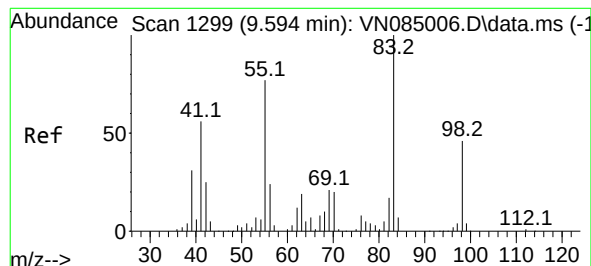
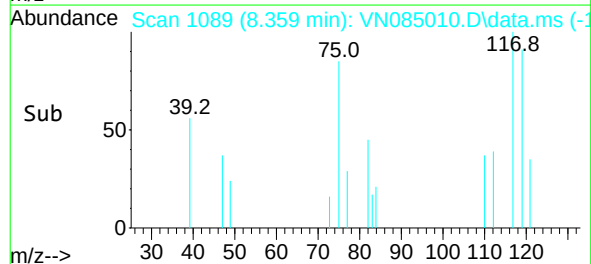
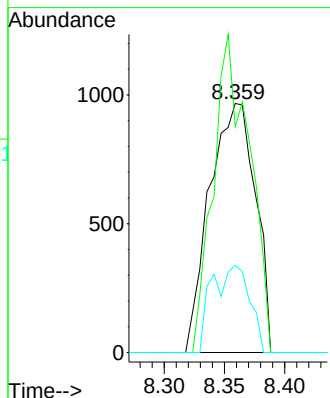
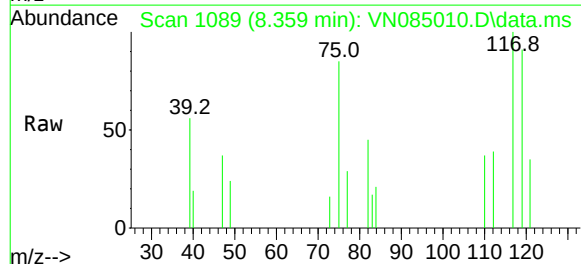
121 35.1 24.2 36.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#39

Methylcyclohexane

Concen: 0.804 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. 0.006 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

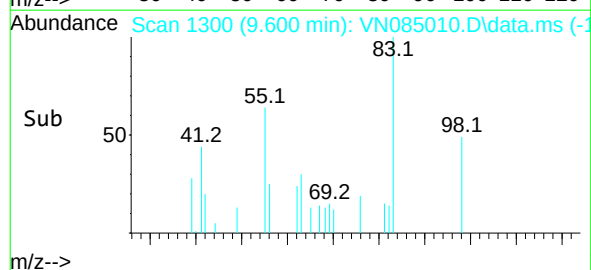
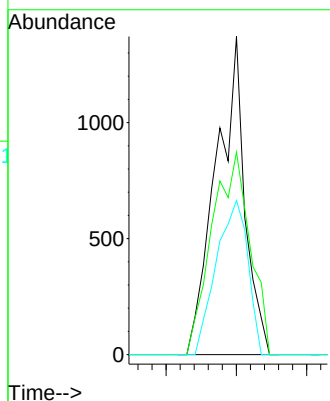
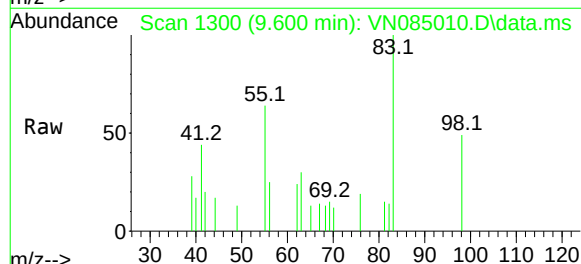
Tgt Ion: 83 Resp: 1948

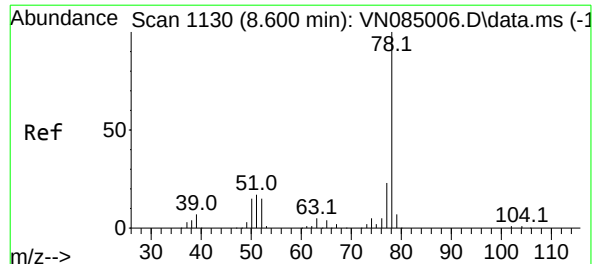
Ion Ratio Lower Upper

83 100

55 63.7 61.8 92.6

98 48.5 37.0 55.6





#40

Benzene

Concen: 1.012 ug/l

RT: 8.600 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 78 Resp: 7459

Ion Ratio Lower Upper

78 100

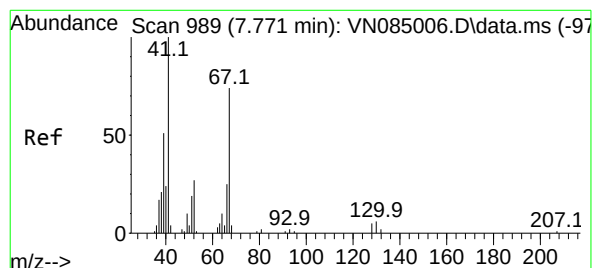
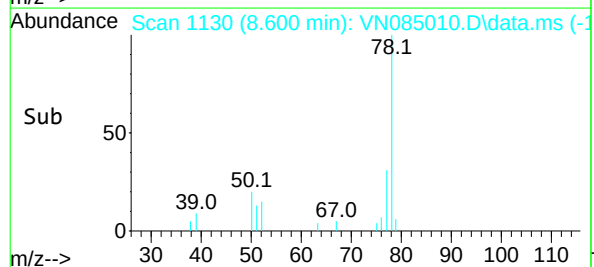
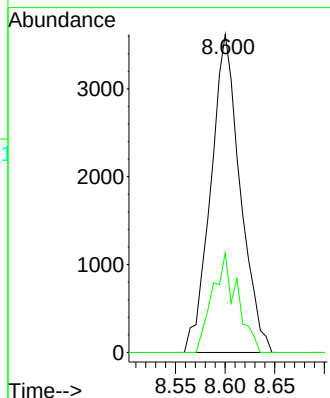
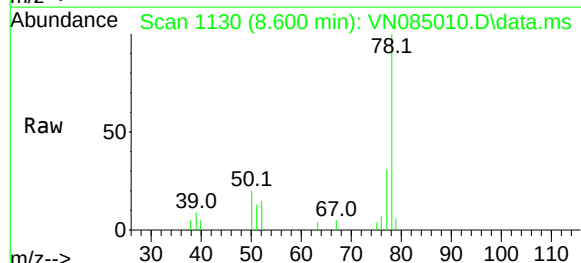
77 31.3 18.5 27.7#

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#41

Methacrylonitrile

Concen: 1.077 ug/l

RT: 7.777 min Scan# 990

Delta R.T. 0.006 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Tgt Ion: 41 Resp: 1263

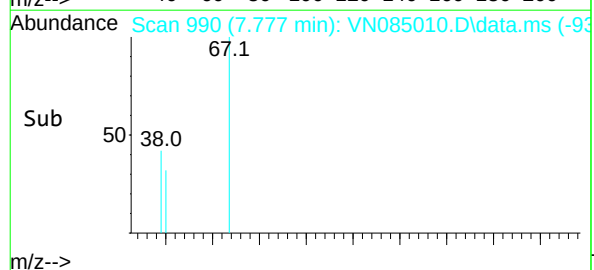
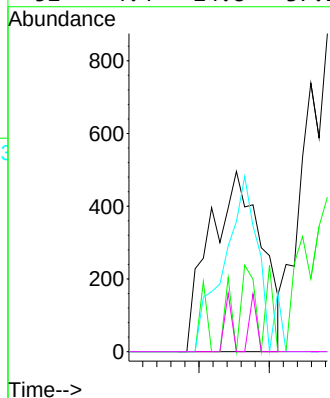
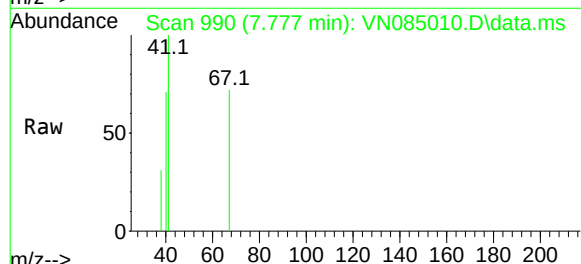
Ion Ratio Lower Upper

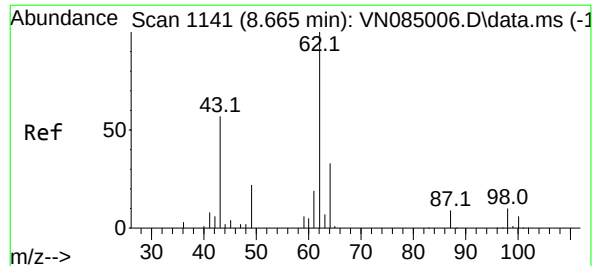
41 100

39 17.9 42.6 63.8#

67 67.1 59.9 89.9

52 4.4 24.8 37.2#





#42

1,2-Dichloroethane

Concen: 0.996 ug/l

RT: 8.671 min Scan# 1141

Delta R.T. 0.006 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 62 Resp: 2512

Ion Ratio Lower Upper

62 100

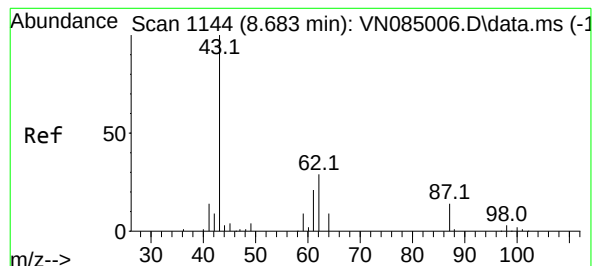
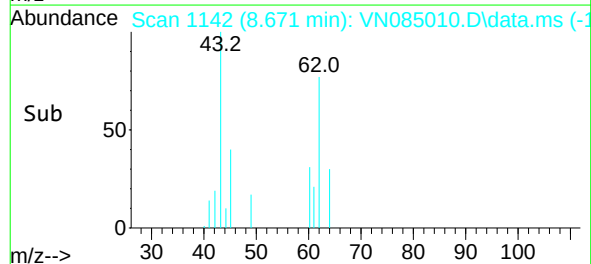
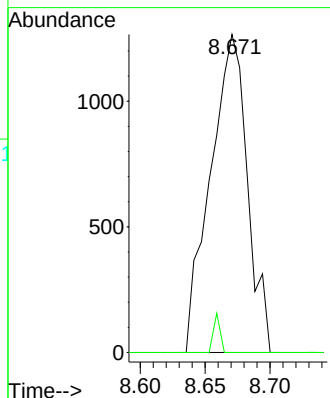
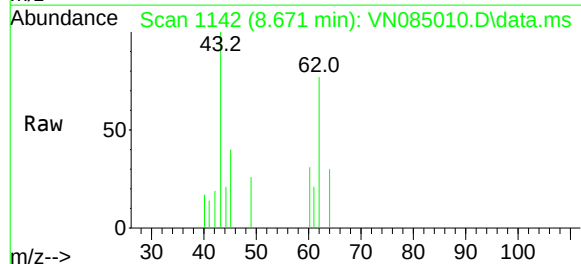
98 2.2 0.0 18.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#43

Isopropyl Acetate

Concen: 1.342 ug/l m

RT: 8.688 min Scan# 1145

Delta R.T. 0.006 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

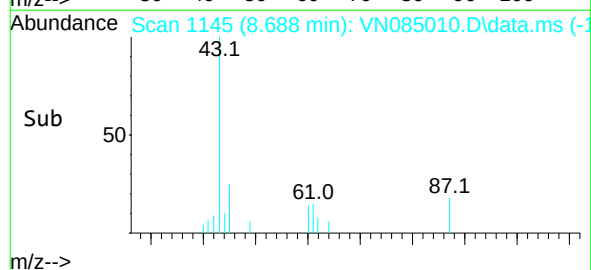
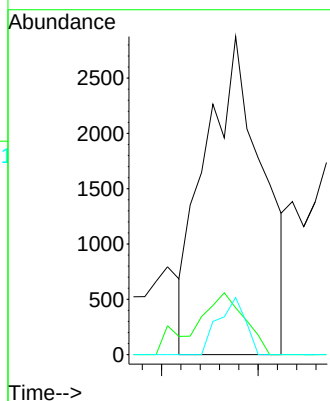
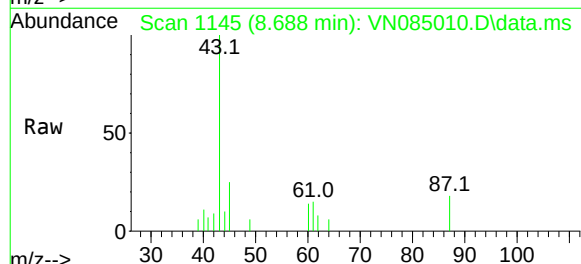
Tgt Ion: 43 Resp: 5905

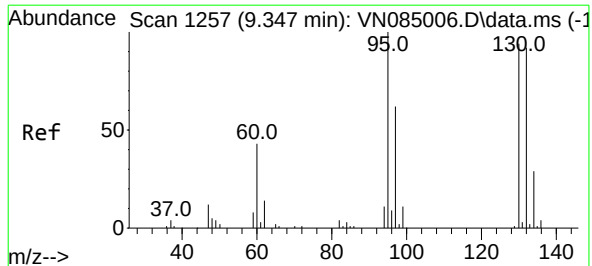
Ion Ratio Lower Upper

43 100

61 17.0 20.6 30.8#

87 8.6 11.0 16.4#





#44

Trichloroethene

Concen: 0.984 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. -0.000 min

Lab File: VN085010.D

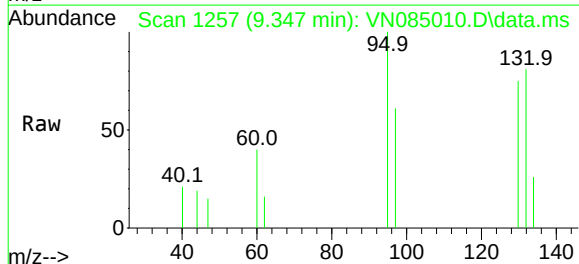
Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001



Tgt Ion: 130 Resp: 1685

Ion Ratio Lower Upper

130 100

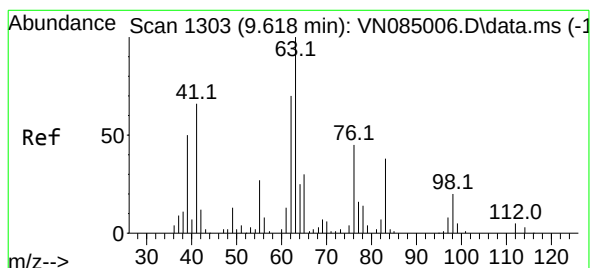
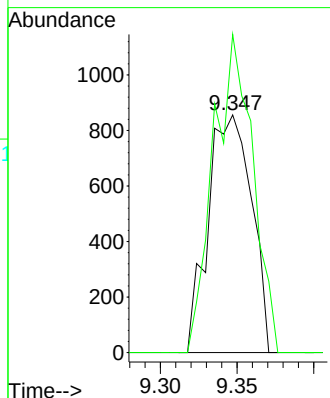
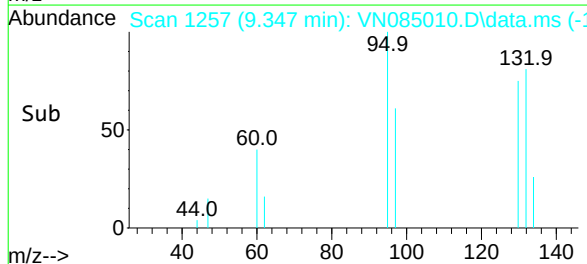
95 133.9 0.0 213.4

Manual Integrations

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Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#45

1,2-Dichloropropane

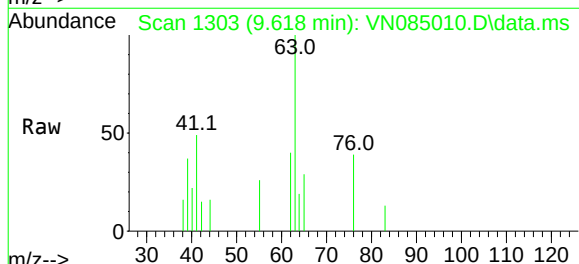
Concen: 1.053 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

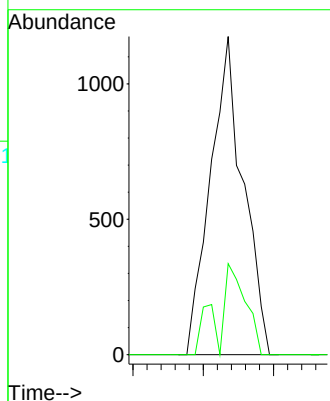
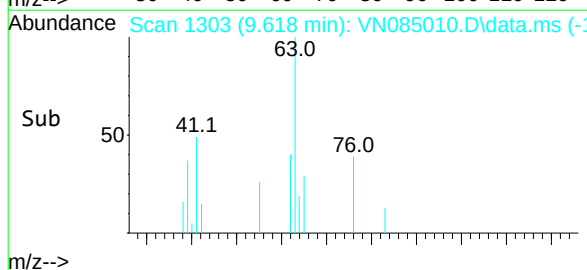


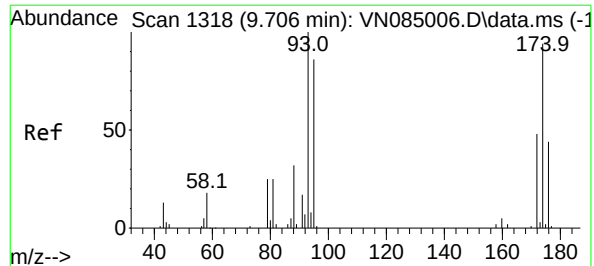
Tgt Ion: 63 Resp: 1911

Ion Ratio Lower Upper

63 100

65 28.6 24.0 36.0





#46

Dibromomethane

Concen: 1.052 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 93 Resp: 1327

Ion Ratio Lower Upper

93 100

95 82.8 66.2 99.4

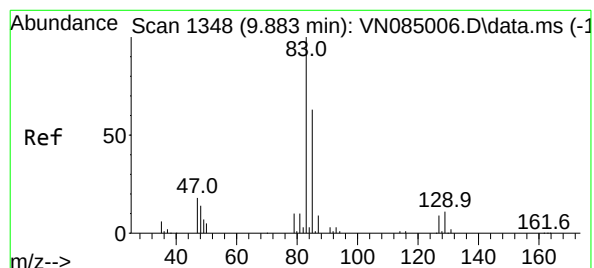
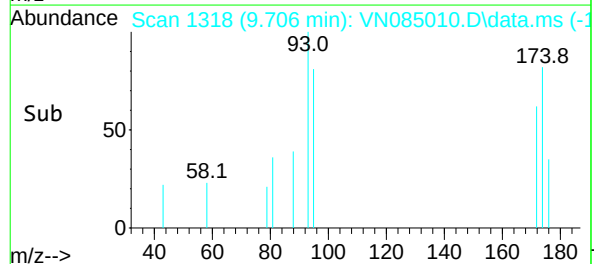
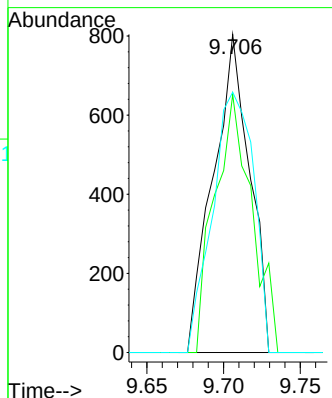
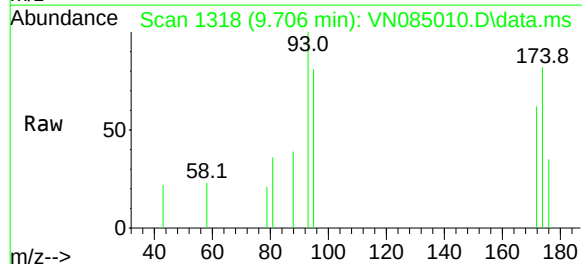
174 92.9 74.9 112.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#47

Bromodichloromethane

Concen: 1.031 ug/l

RT: 9.894 min Scan# 1350

Delta R.T. 0.012 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

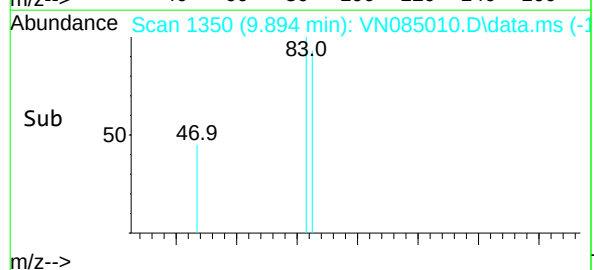
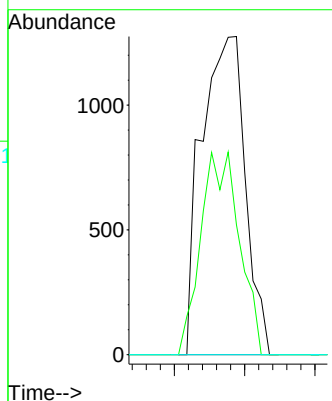
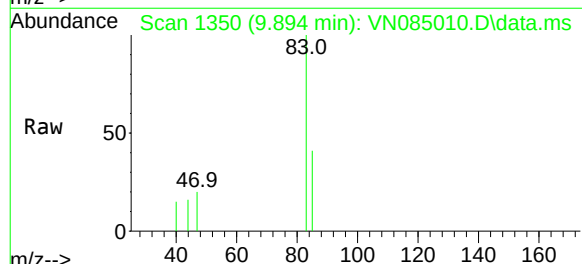
Tgt Ion: 83 Resp: 2757

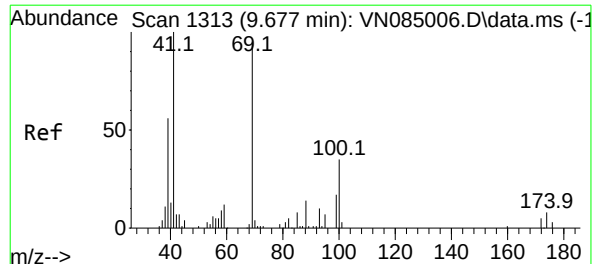
Ion Ratio Lower Upper

83 100

85 40.9 50.5 75.7#

127 0.0 7.1 10.7#





#48

Methyl methacrylate

Concen: 0.946 ug/l

RT: 9.682 min Scan# 1313

Delta R.T. 0.006 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 41 Resp: 1550

Ion Ratio Lower Upper

41 100

69 79.2 73.2 109.8

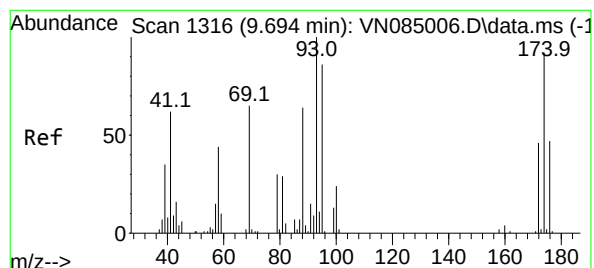
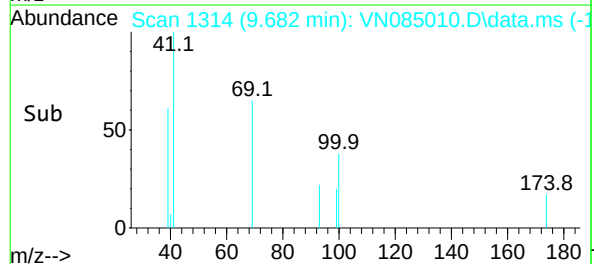
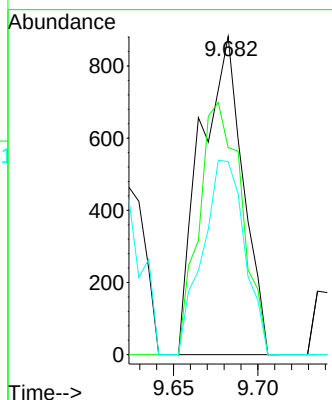
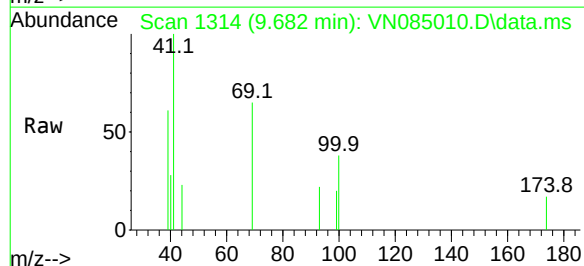
39 60.1 46.2 69.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#49

1,4-Dioxane

Concen: 19.470 ug/l

RT: 9.700 min Scan# 1317

Delta R.T. 0.006 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

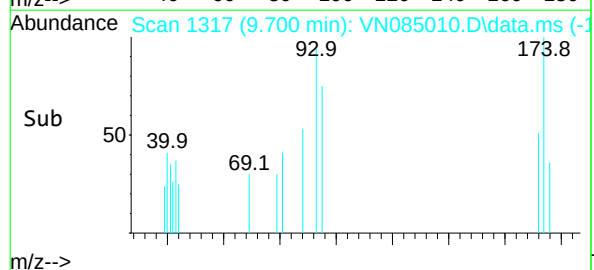
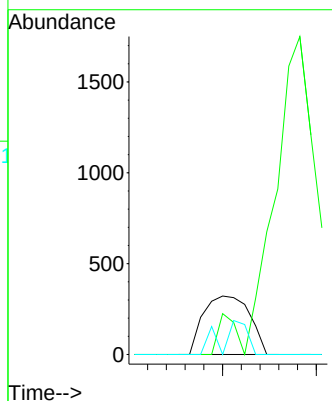
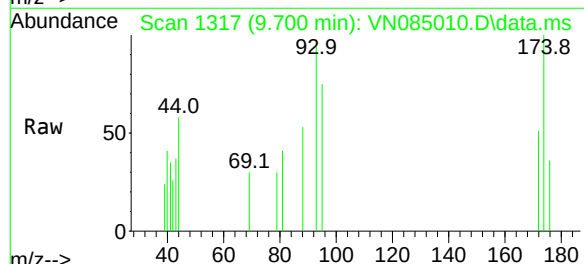
Tgt Ion: 88 Resp: 553

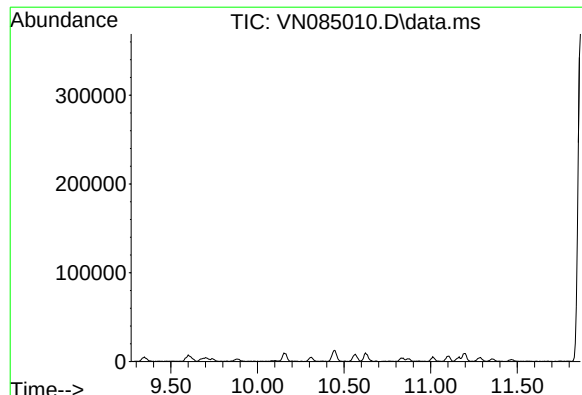
Ion Ratio Lower Upper

88 100

43 0.0 16.7 25.1#

58 32.4 56.5 84.7#





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

Lab File: VN085010.D
Acq: 22 Nov 2024 13:45

Tgt Ion: 98
Sig Exp Ratio
98 100
100 65.6

Instrument :

MSVOA_N

ClientSampleId :

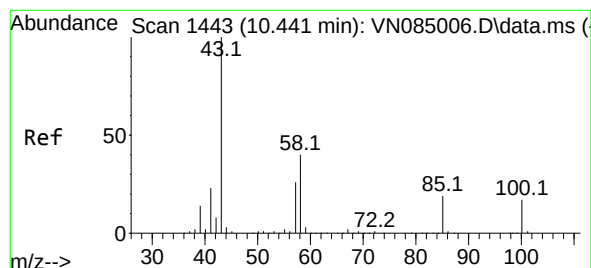
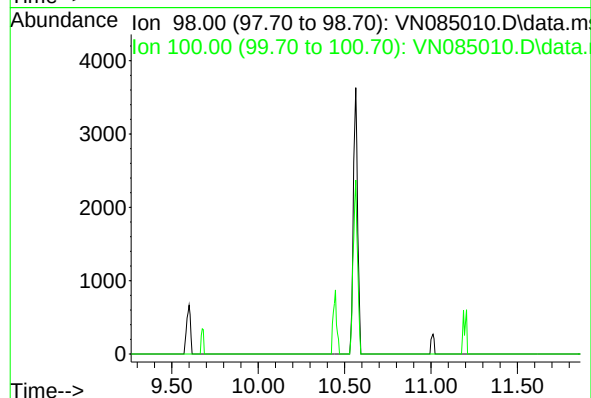
VSTDICC001

Manual Integrations

APPROVED

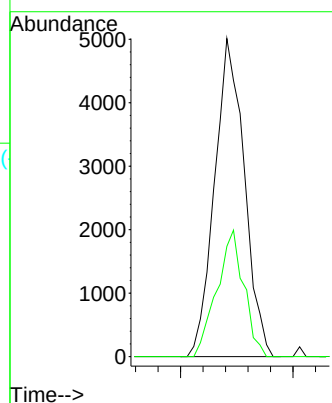
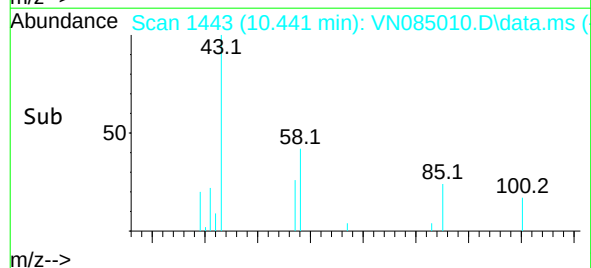
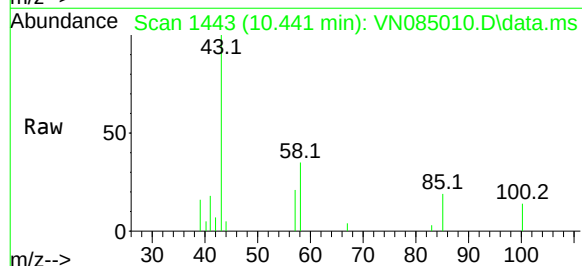
Reviewed By :John Carlone 11/25/2024

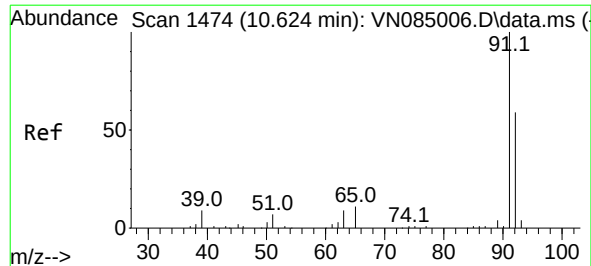
Supervised By :Mahesh Dadoda 11/25/2024



#51
4-Methyl-2-Pentanone
Concen: 4.578 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085010.D
Acq: 22 Nov 2024 13:45

Tgt Ion: 43 Resp: 9203
Ion Ratio Lower Upper
43 100
58 36.0 32.1 48.1





#52

Toluene

Concen: 0.912 ug/l

RT: 10.624 min Scan# 14

Delta R.T. -0.000 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 92 Resp: 3979

Ion Ratio Lower Upper

92 100

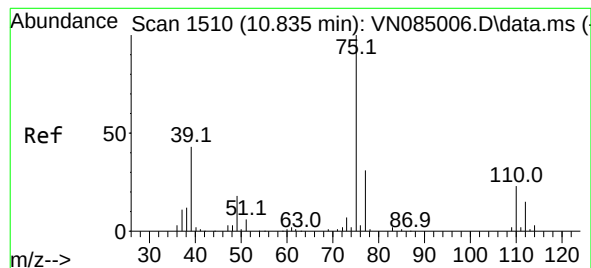
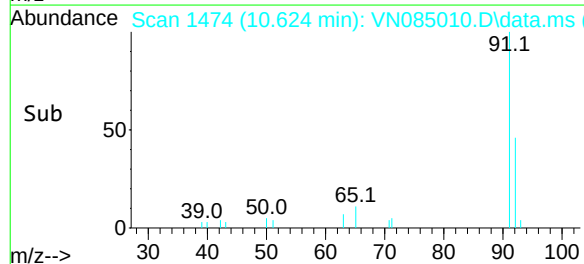
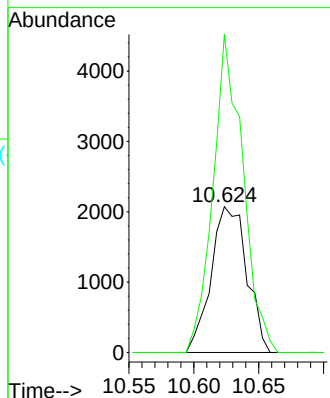
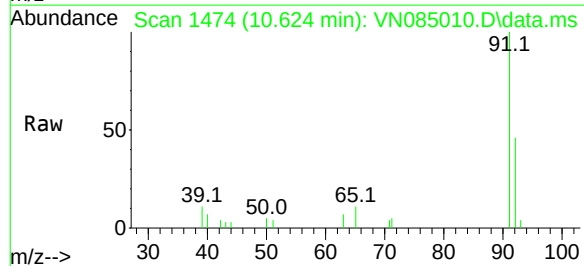
91 182.5 136.7 205.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#53

t-1,3-Dichloropropene

Concen: 1.000 ug/l

RT: 10.829 min Scan# 1509

Delta R.T. -0.006 min

Lab File: VN085010.D

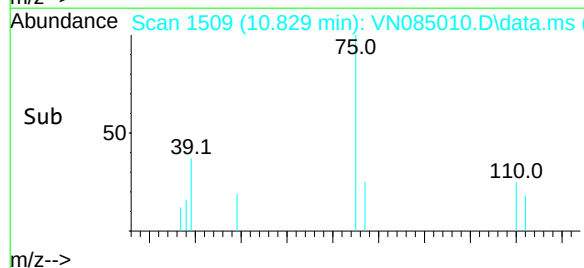
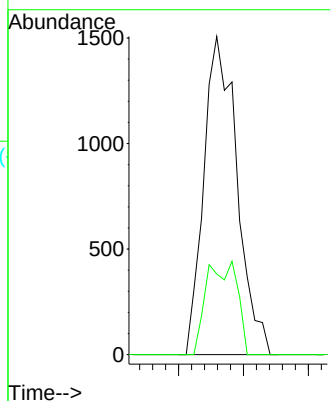
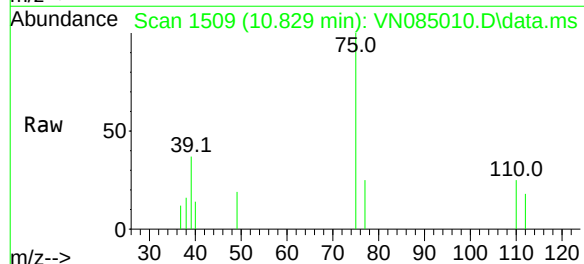
Acq: 22 Nov 2024 13:45

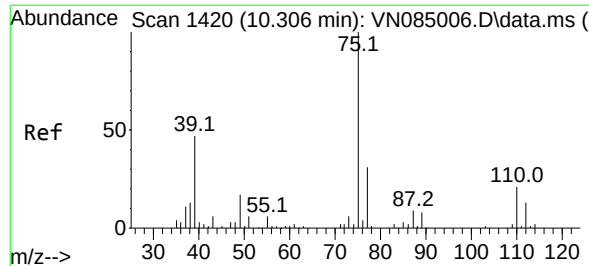
Tgt Ion: 75 Resp: 2680

Ion Ratio Lower Upper

75 100

77 25.3 25.0 37.4





#54

cis-1,3-Dichloropropene

Concen: 0.970 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. 0.006 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

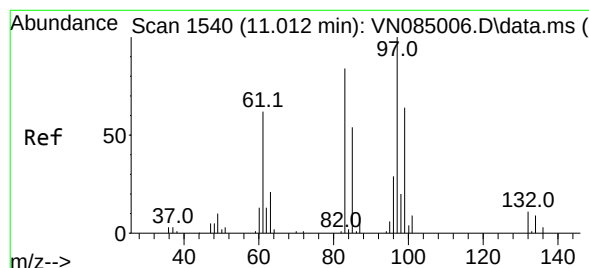
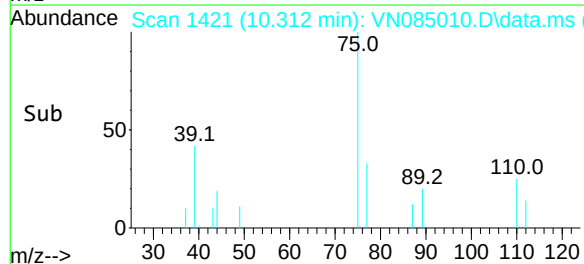
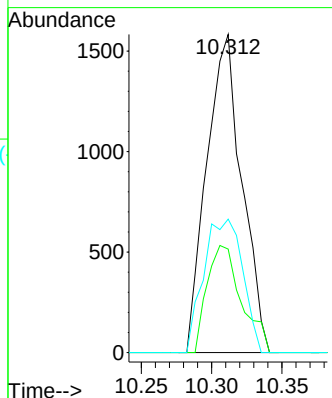
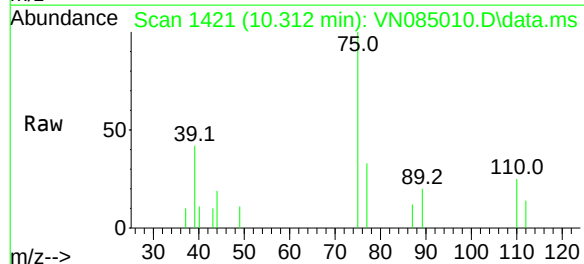
ClientSampleId :

VSTDIC001

Tgt	Ion: 75	Resp:	2759
Ion	Ratio	Lower	Upper
75	100		
77	32.5	25.0	37.4
39	41.9	37.6	56.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#55

1,1,2-Trichloroethane

Concen: 0.945 ug/l

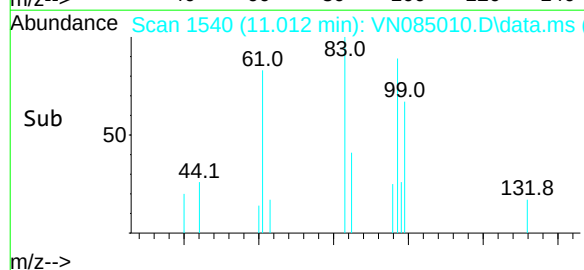
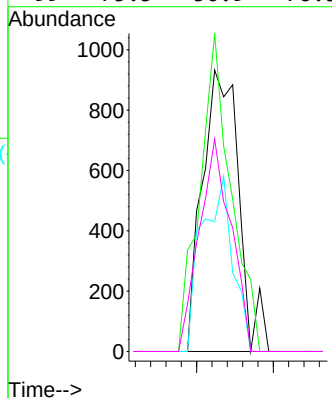
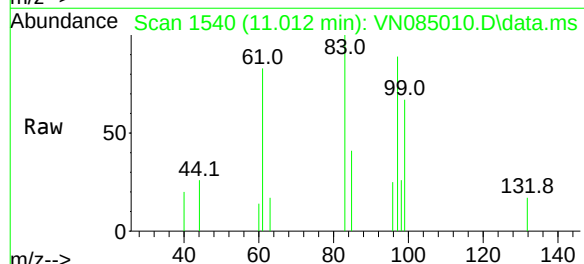
RT: 11.012 min Scan# 1540

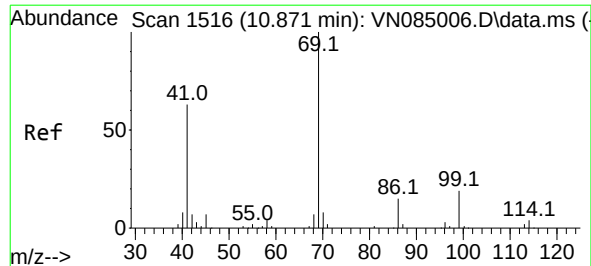
Delta R.T. -0.000 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Tgt	Ion: 97	Resp:	1536
Ion	Ratio	Lower	Upper
97	100		
83	113.0	67.4	101.2#
85	46.1	43.1	64.7
99	75.5	50.9	76.3





#56

Ethyl methacrylate

Concen: 0.795 ug/l

RT: 10.876 min Scan# 1516

Delta R.T. 0.006 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 69 Resp: 1888

Ion Ratio Lower Upper

69 100

41 64.1 50.0 75.0

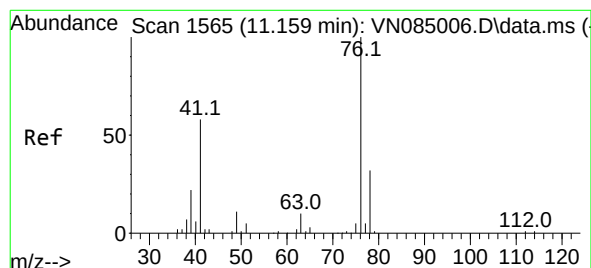
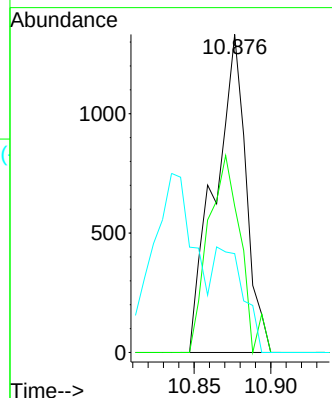
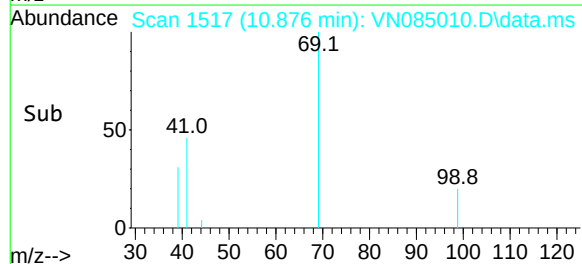
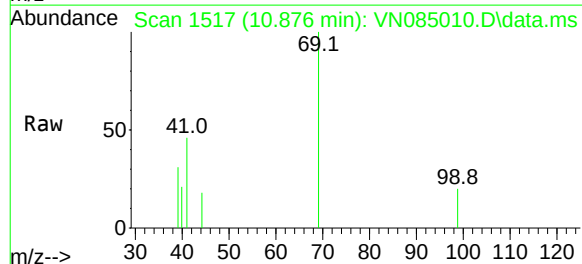
39 31.6 27.0 40.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#57

1,3-Dichloropropane

Concen: 1.020 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. 0.006 min

Lab File: VN085010.D

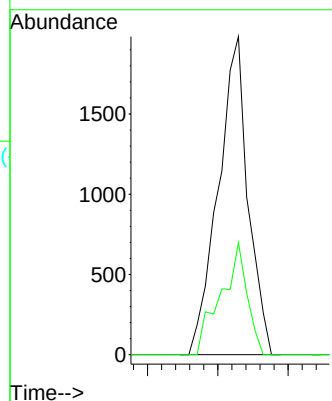
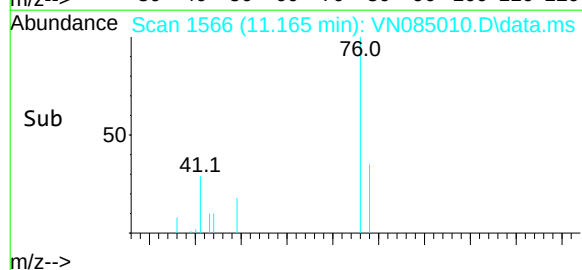
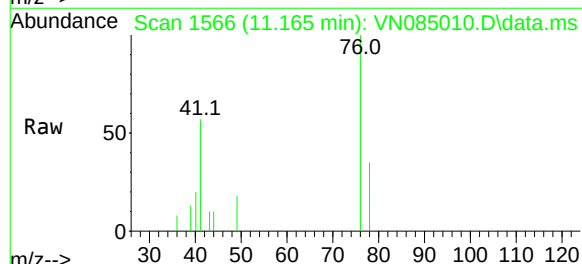
Acq: 22 Nov 2024 13:45

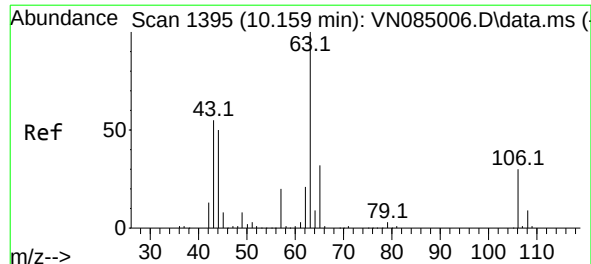
Tgt Ion: 76 Resp: 2917

Ion Ratio Lower Upper

76 100

78 31.1 26.1 39.1





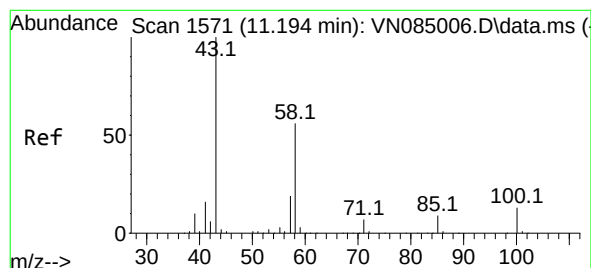
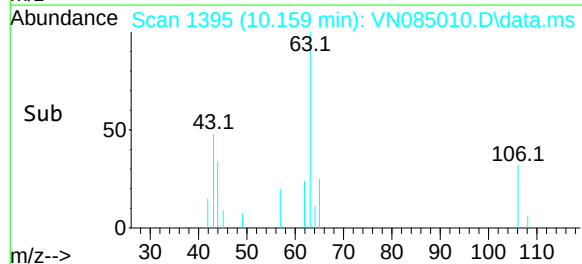
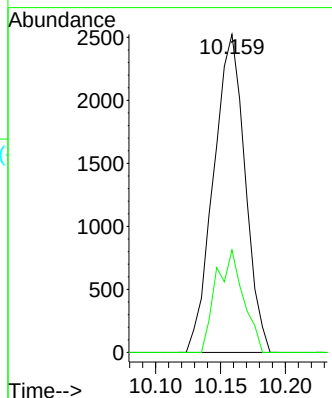
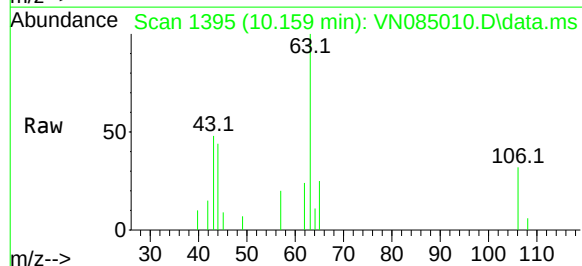
#58
2-Chloroethyl Vinyl ether
Concen: 3.651 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN085010.D
Acq: 22 Nov 2024 13:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 63 Resp: 4254
Ion Ratio Lower Upper
63 100
106 28.0 23.0 34.6

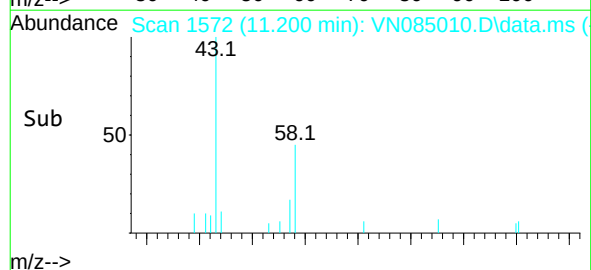
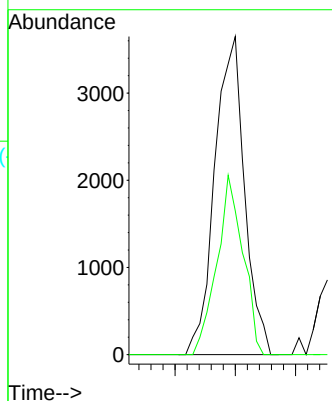
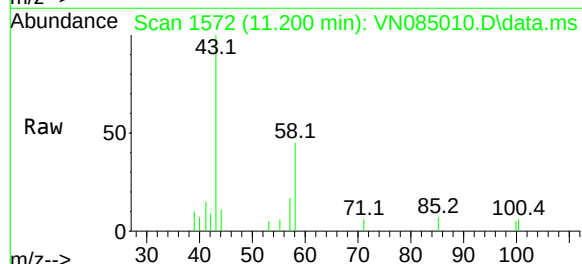
Manual Integrations
APPROVED

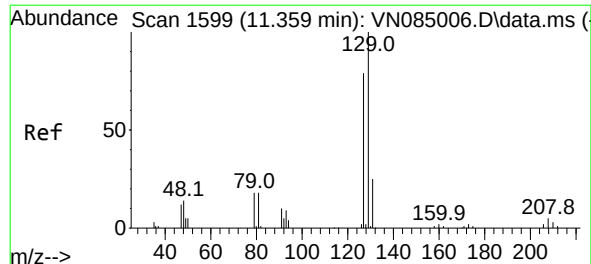
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#59
2-Hexanone
Concen: 4.166 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN085010.D
Acq: 22 Nov 2024 13:45

Tgt Ion: 43 Resp: 6264
Ion Ratio Lower Upper
43 100
58 49.4 28.3 85.0





#60

Dibromochloromethane

Concen: 1.057 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. -0.000 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:129 Resp: 2099

Ion Ratio Lower Upper

129 100

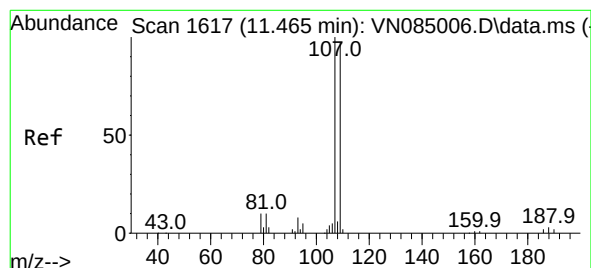
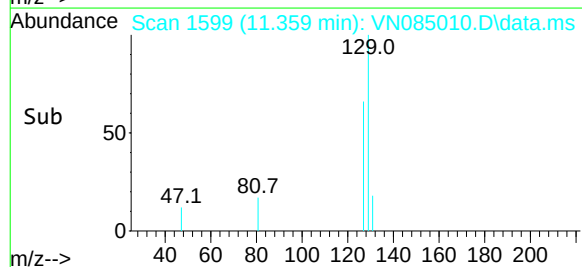
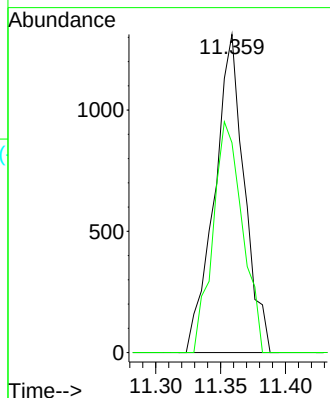
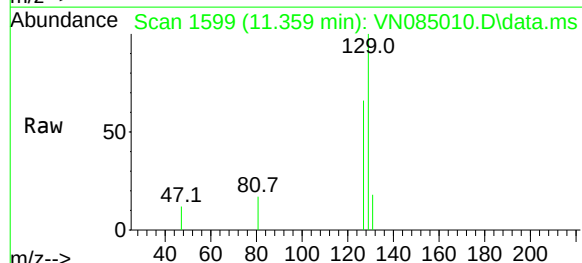
127 72.0 39.2 117.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#61

1,2-Dibromoethane

Concen: 0.980 ug/l

RT: 11.465 min Scan# 1617

Delta R.T. -0.000 min

Lab File: VN085010.D

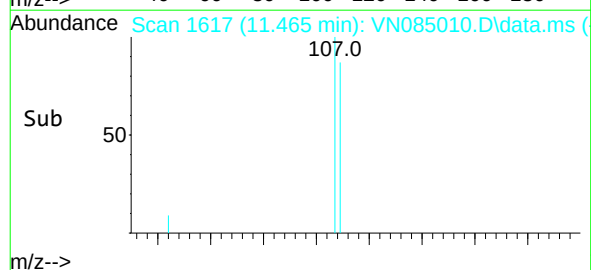
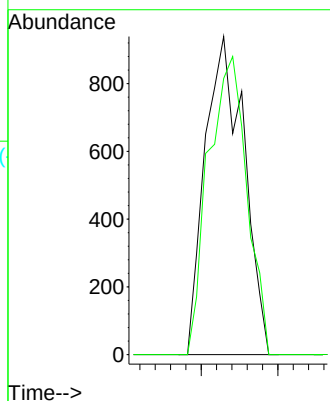
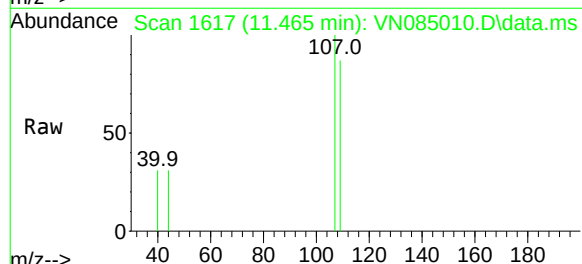
Acq: 22 Nov 2024 13:45

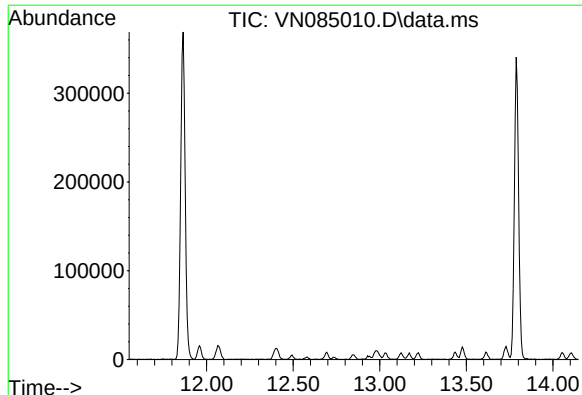
Tgt Ion:107 Resp: 1648

Ion Ratio Lower Upper

107 100

109 93.0 76.1 114.1





#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 12.85 min

Lab File: VN085010.D
Acq: 22 Nov 2024 13:45

Tgt Ion:	95
Sig	Exp Ratio
95	100
174	73.3
176	70.9

Instrument :

MSVOA_N

ClientSampleId :

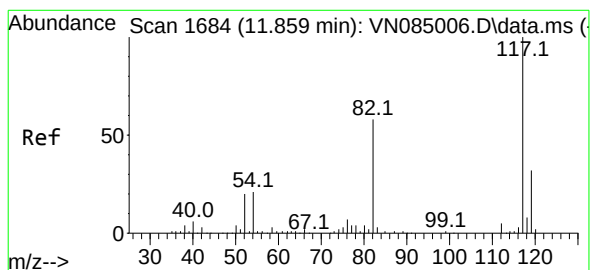
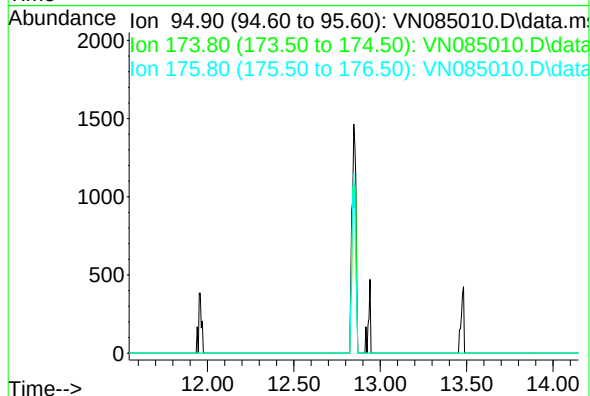
VSTDIC001

Manual Integrations

APPROVED

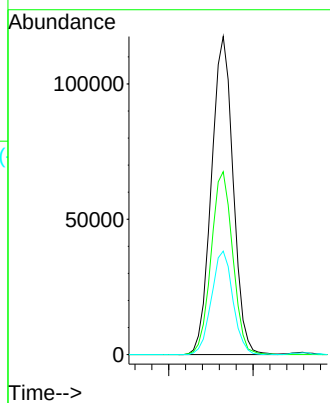
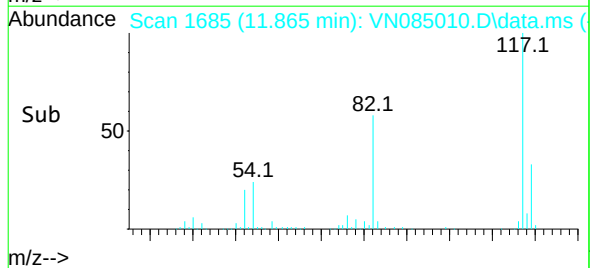
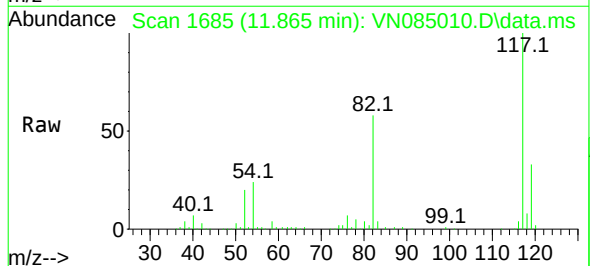
Reviewed By :John Carlone 11/25/2024

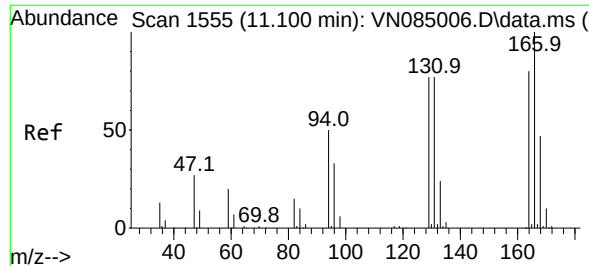
Supervised By :Mahesh Dadoda 11/25/2024



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VN085010.D
Acq: 22 Nov 2024 13:45

Tgt Ion:	117	Resp:	210265
Ion	Ratio	Lower	Upper
117	100		
82	57.5	46.0	69.0
119	32.5	25.6	38.4





#64

Tetrachloroethene

Concen: 0.911 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:164 Resp: 1291

Ion Ratio Lower Upper

164 100

166 117.4 100.6 151.0

129 67.4 77.7 116.5#

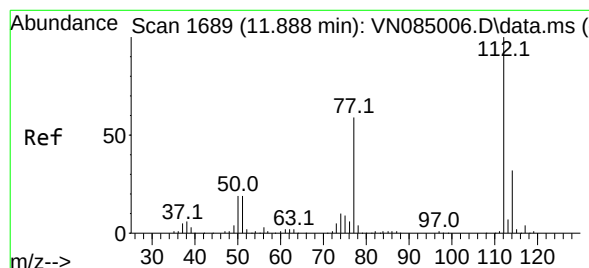
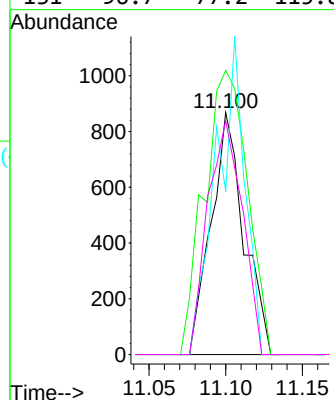
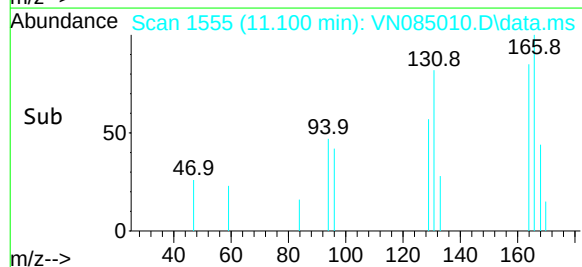
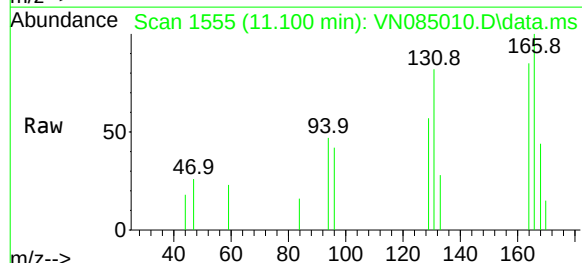
131 96.7 77.2 115.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#65

Chlorobenzene

Concen: 1.094 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. -0.000 min

Lab File: VN085010.D

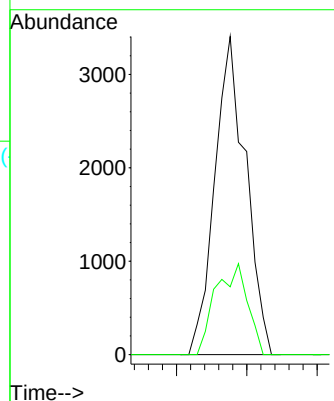
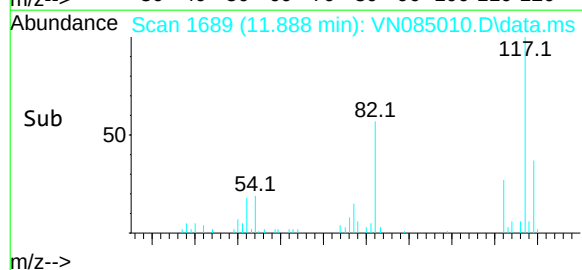
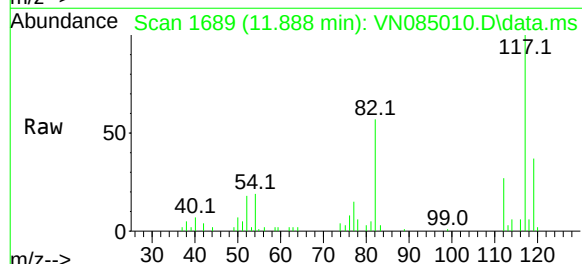
Acq: 22 Nov 2024 13:45

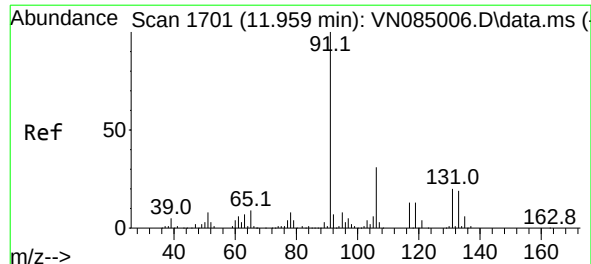
Tgt Ion:112 Resp: 5217

Ion Ratio Lower Upper

112 100

114 21.3 25.8 38.6#





#66

1,1,1,2-Tetrachloroethane

Concen: 0.976 ug/l

RT: 11.965 min Scan# 1701

Delta R.T. 0.006 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

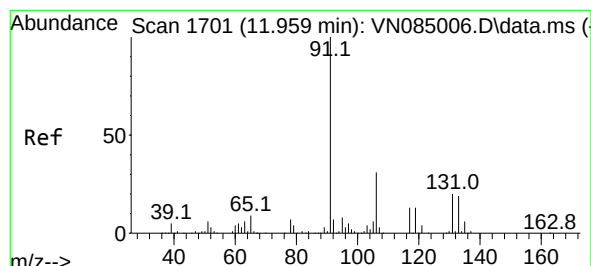
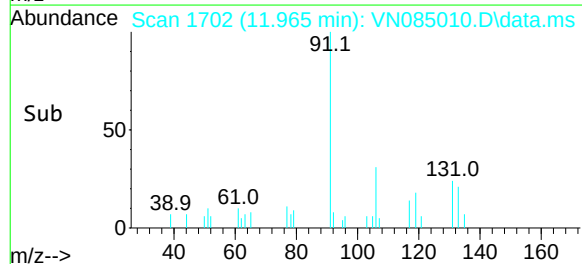
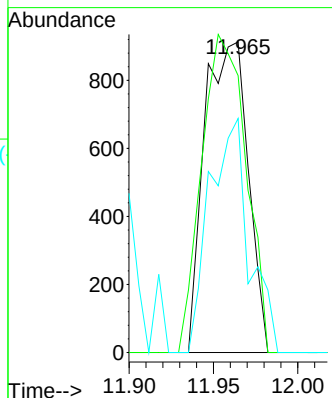
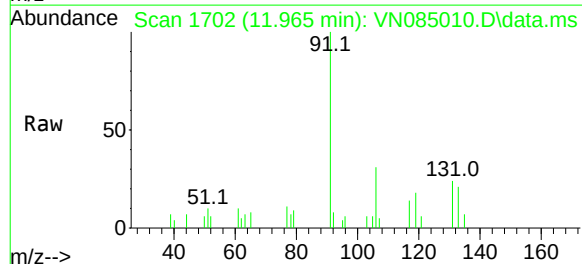
ClientSampleId :

VSTDICC001

Tgt Ion:	131	Resp:	1639
Ion Ratio	Lower	Upper	
131	100		
133	104.3	47.8	143.4
119	0.0	32.1	96.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#67

Ethyl Benzene

Concen: 0.894 ug/l

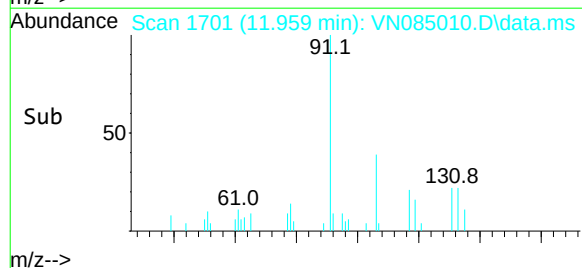
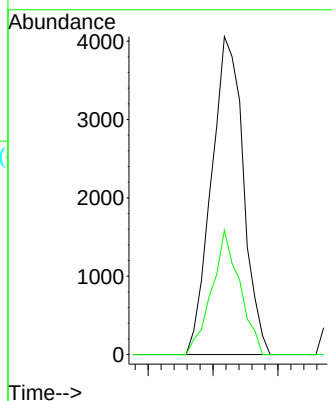
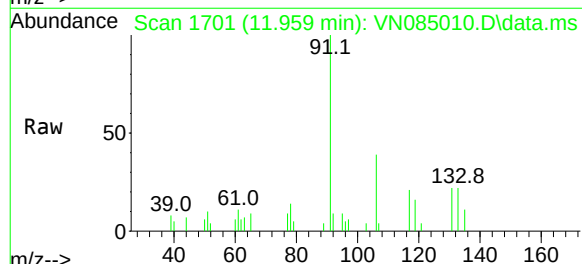
RT: 11.959 min Scan# 1701

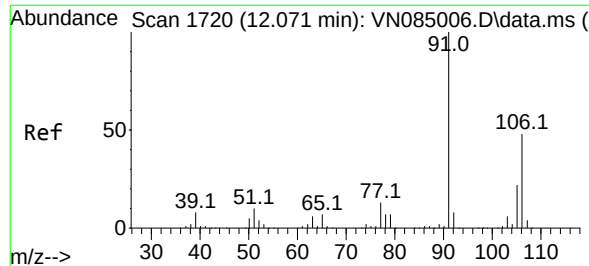
Delta R.T. -0.000 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Tgt Ion:	91	Resp:	6914
Ion Ratio	Lower	Upper	
91	100		
106	39.1	24.7	37.1





#68

m/p-Xylenes

Concen: 1.789 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Tgt Ion:106 Resp: 5269

Ion Ratio Lower Upper

106 100

91 195.9 168.0 252.0

Instrument :

MSVOA_N

ClientSampleId :

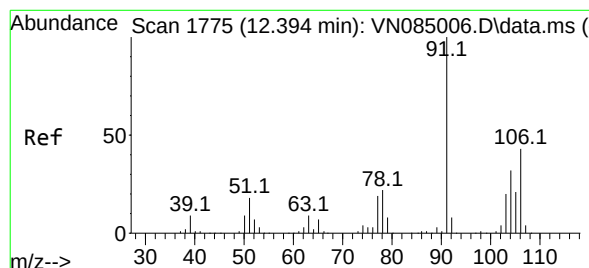
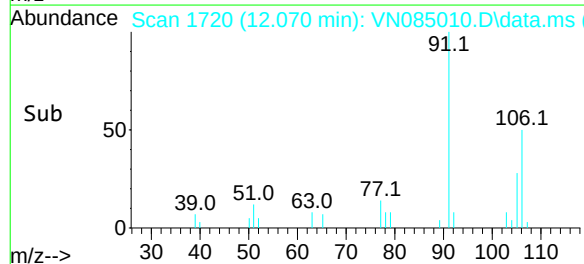
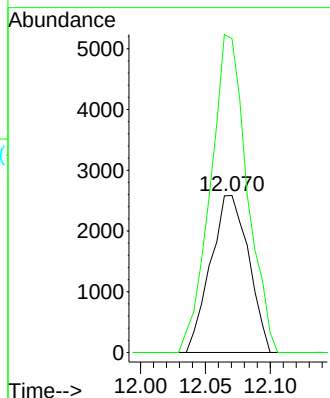
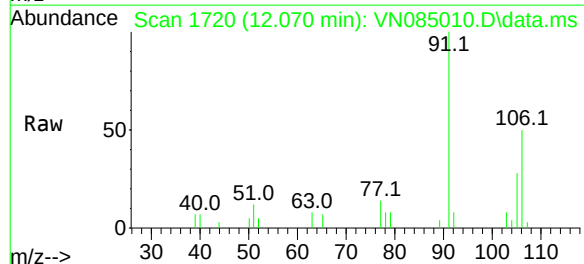
VSTDIC001

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#69

o-Xylene

Concen: 0.897 ug/l

RT: 12.400 min Scan# 1776

Delta R.T. 0.006 min

Lab File: VN085010.D

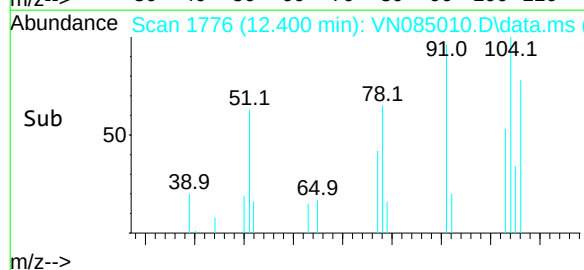
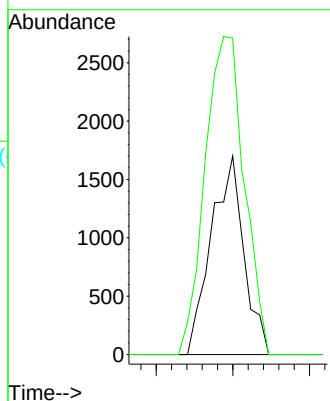
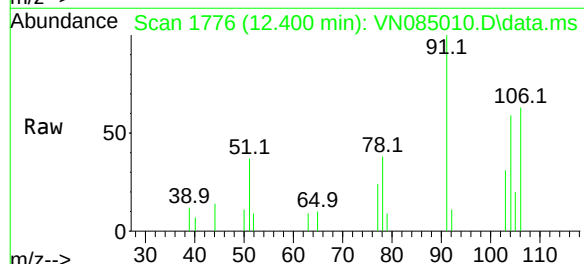
Acq: 22 Nov 2024 13:45

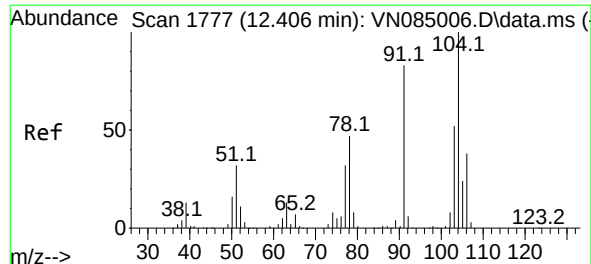
Tgt Ion:106 Resp: 2514

Ion Ratio Lower Upper

106 100

91 192.8 110.7 331.9





#70

Styrene

Concen: 0.831 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.000 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Tgt	Ion:104	Resp:	3871
Ion	Ratio	Lower	Upper
104	100		
78	52.8	42.3	63.5
103	56.0	44.2	66.2

Instrument :

MSVOA_N

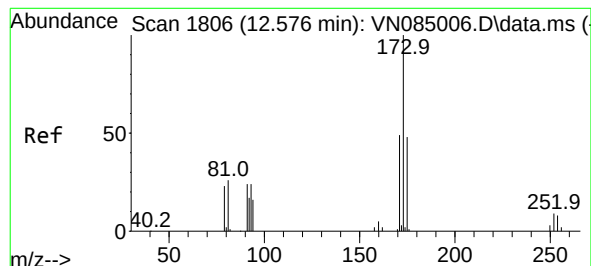
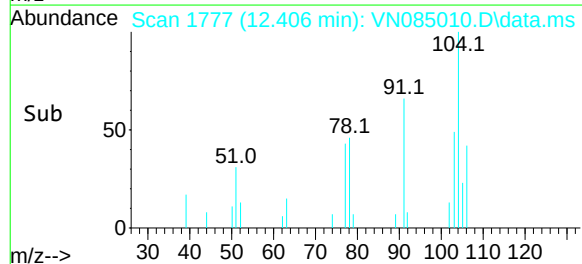
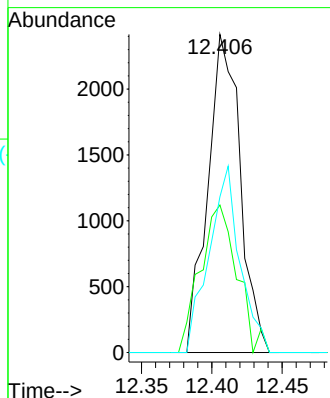
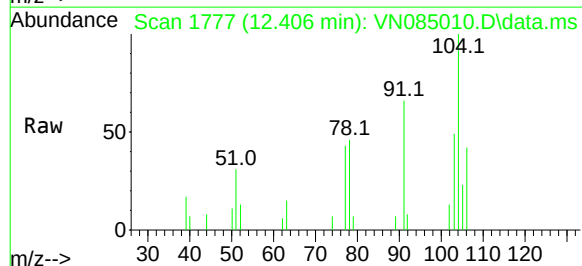
ClientSampleId :

VSTDIC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#71

Bromoform

Concen: 0.975 ug/l

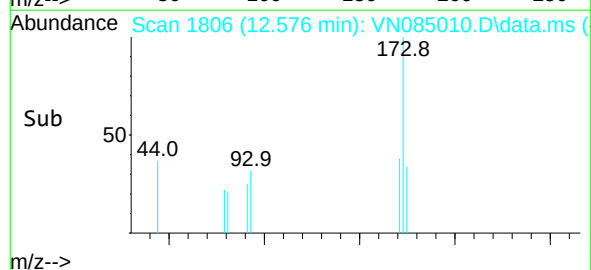
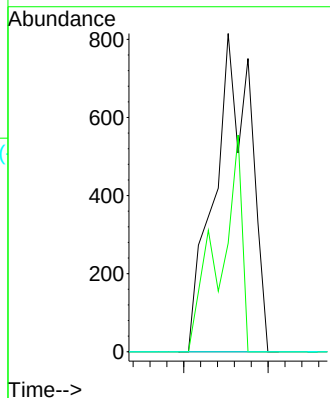
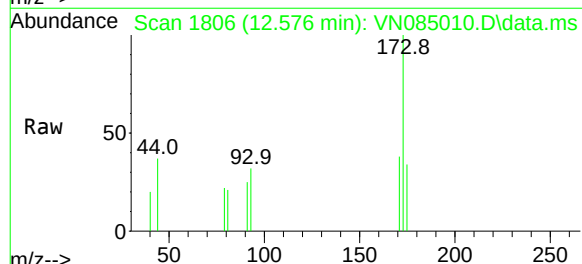
RT: 12.576 min Scan# 1806

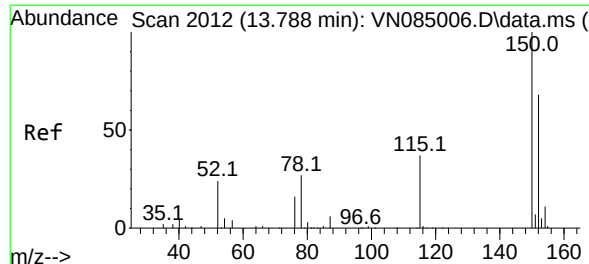
Delta R.T. -0.000 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Tgt	Ion:173	Resp:	1215
Ion	Ratio	Lower	Upper
173	100		
175	42.1	23.8	71.2
254	0.0	0.0	0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion:152 Resp: 88784

Ion Ratio Lower Upper

152 100

115 62.8 31.7 95.1

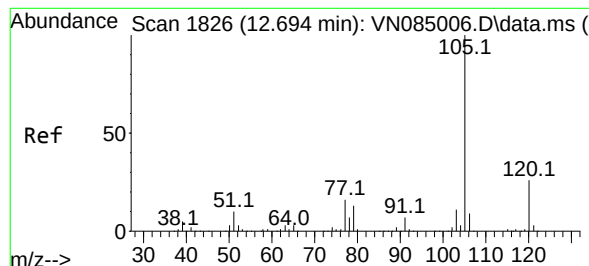
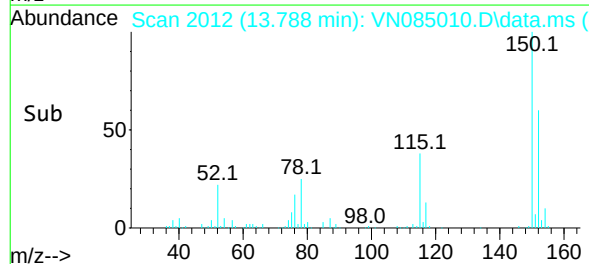
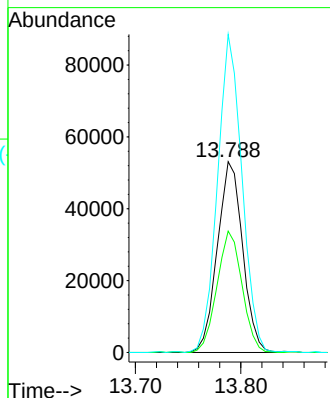
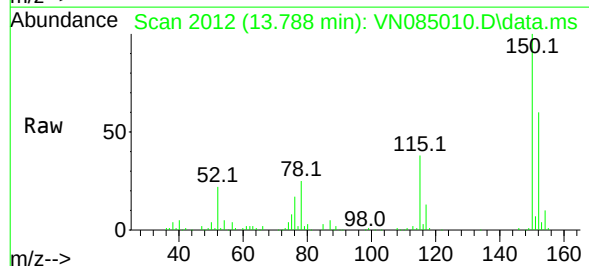
150 161.6 0.0 351.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#73

Isopropylbenzene

Concen: 0.900 ug/l

RT: 12.688 min Scan# 1825

Delta R.T. -0.006 min

Lab File: VN085010.D

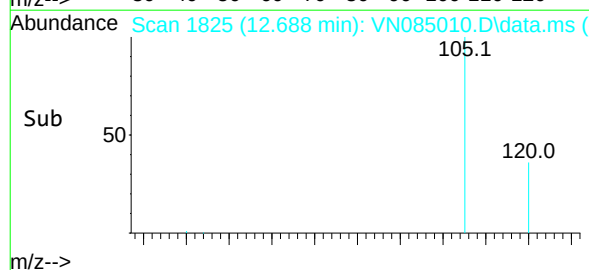
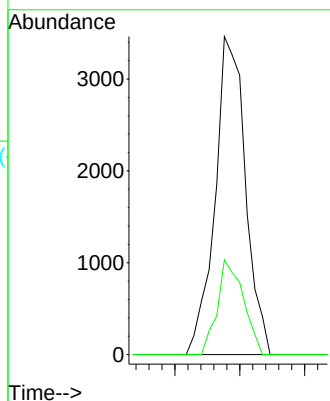
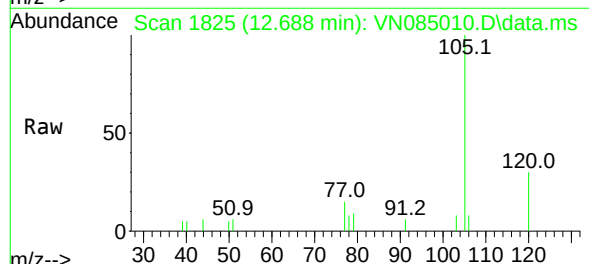
Acq: 22 Nov 2024 13:45

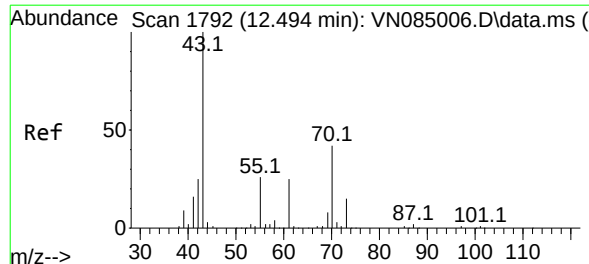
Tgt Ion:105 Resp: 5637

Ion Ratio Lower Upper

105 100

120 25.5 13.0 39.0





#74

N-amy1 acetate

Concen: 0.921 ug/l

RT: 12.494 min Scan# 17

Delta R.T. -0.000 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

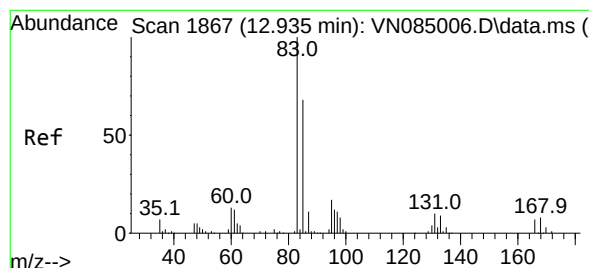
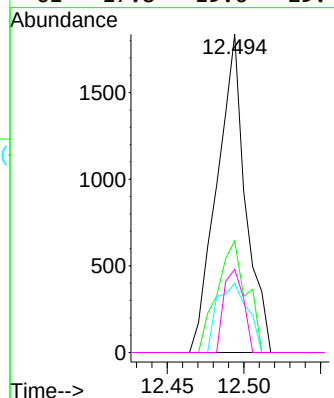
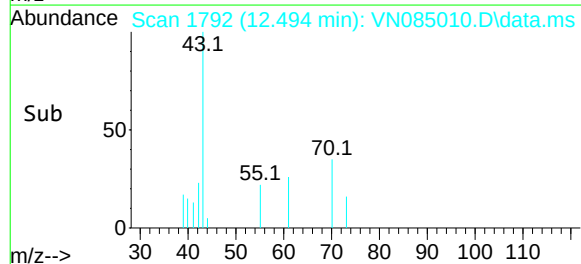
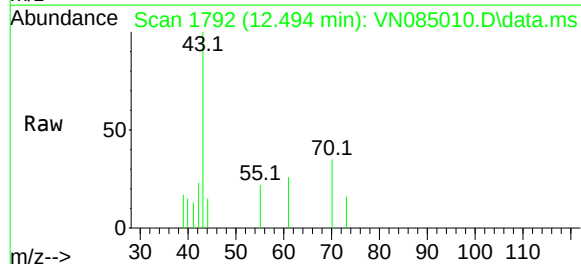
VSTDICC001

Tgt Ion:	43	Resp:	2377
Ion	Ratio	Lower	Upper
43	100		
70	36.0	34.6	51.8
55	23.1	20.5	30.7
61	17.8	19.6	29.4#

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#75

1,1,2,2-Tetrachloroethane

Concen: 1.260 ug/l

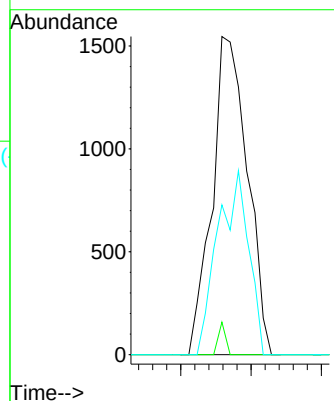
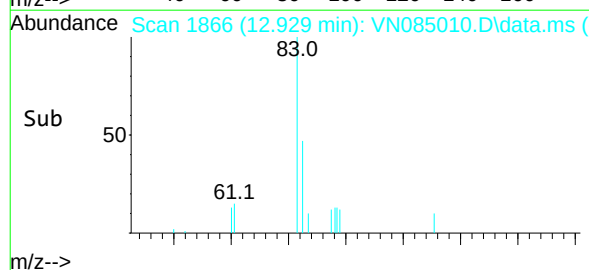
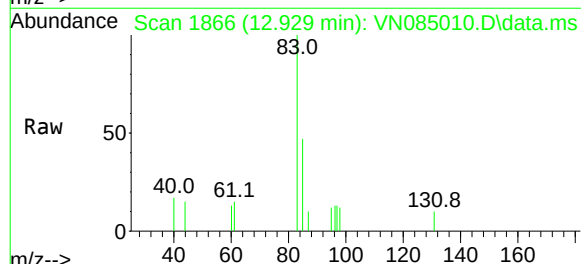
RT: 12.929 min Scan# 1866

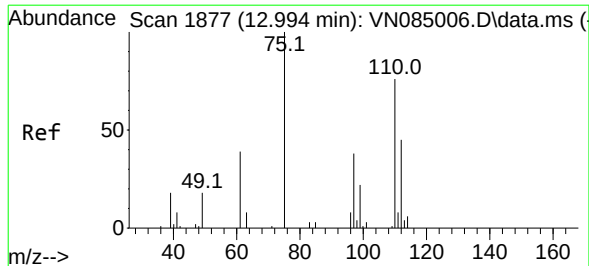
Delta R.T. -0.006 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Tgt Ion:	83	Resp:	2694
Ion	Ratio	Lower	Upper
83	100		
131	2.1	5.1	15.4#
85	50.6	32.1	96.3





#76

1,2,3-Trichloropropane

Concen: 1.093 ug/l m

RT: 12.988 min Scan# 18

Delta R.T. -0.006 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 75 Resp: 1816

Ion Ratio Lower Upper

75 100

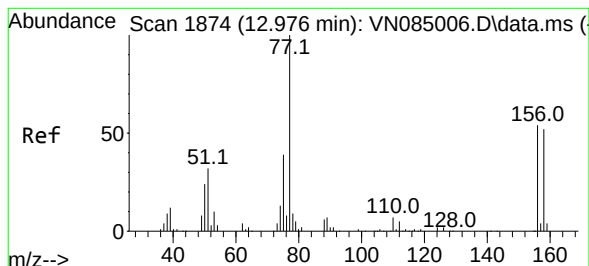
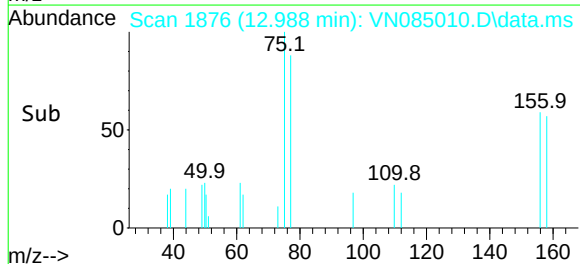
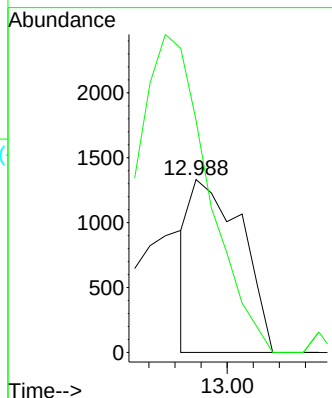
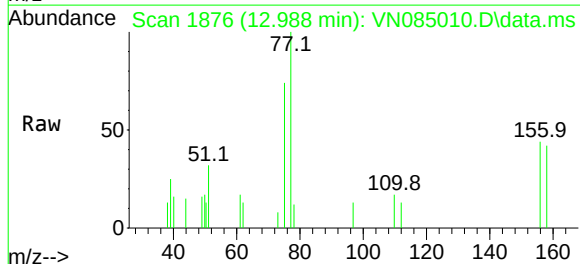
77 257.4 109.1 327.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#77

Bromobenzene

Concen: 1.129 ug/l

RT: 12.982 min Scan# 1875

Delta R.T. 0.006 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

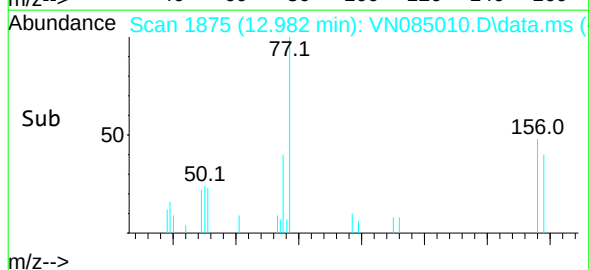
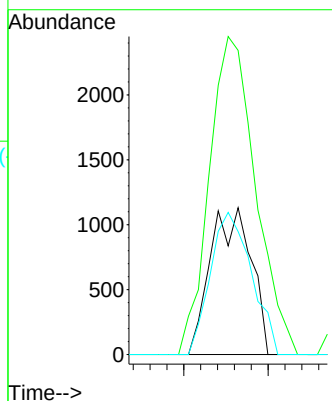
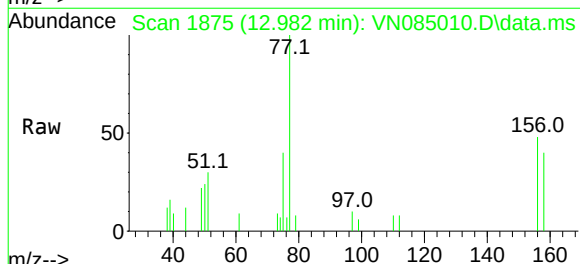
Tgt Ion:156 Resp: 1903

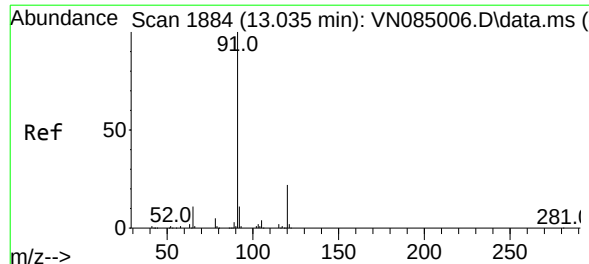
Ion Ratio Lower Upper

156 100

77 245.7 107.2 321.6

158 97.5 48.5 145.6





#78

n-propylbenzene

Concen: 0.869 ug/l

RT: 13.029 min Scan# 1883

Delta R.T. -0.006 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 91 Resp: 6275

Ion Ratio Lower Upper

91 100

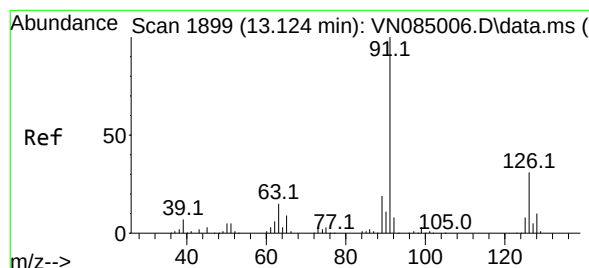
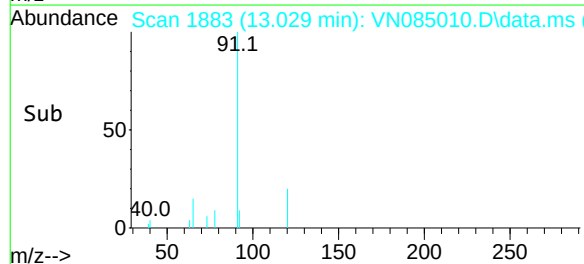
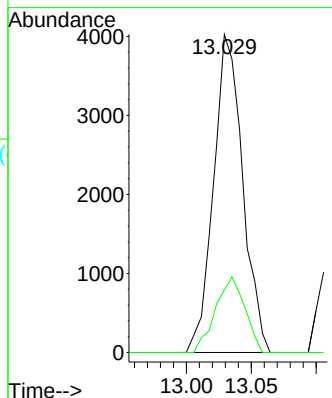
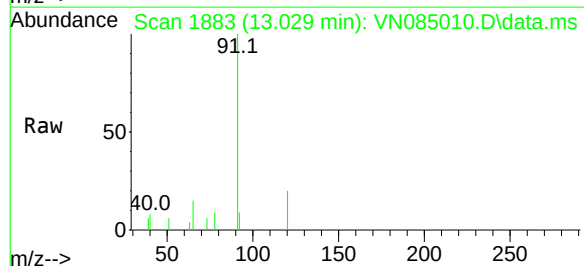
120 24.0 11.3 33.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#79

2-Chlorotoluene

Concen: 1.023 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN085010.D

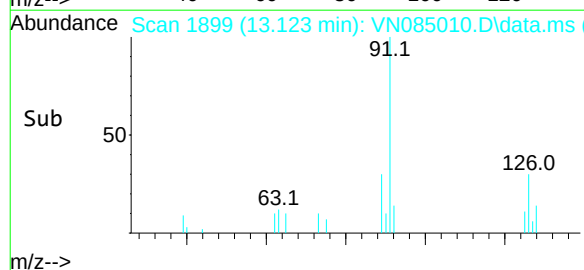
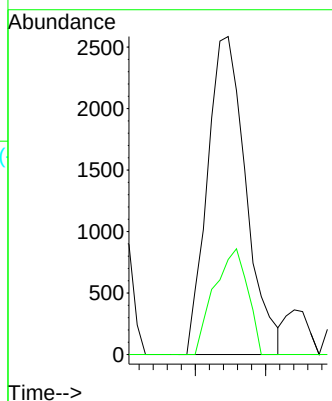
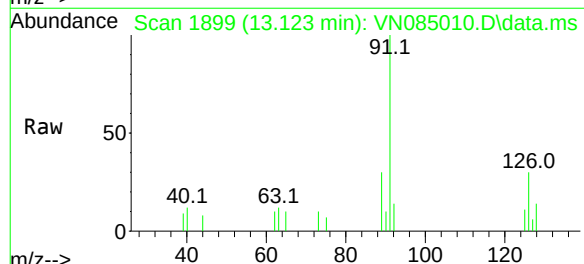
Acq: 22 Nov 2024 13:45

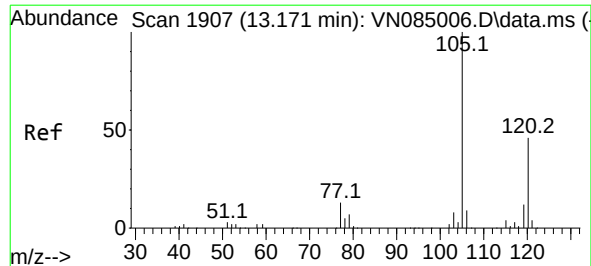
Tgt Ion: 91 Resp: 4935

Ion Ratio Lower Upper

91 100

126 28.8 16.1 48.3





#80

1,3,5-Trimethylbenzene

Concen: 0.851 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 105 Resp: 4473

Ion Ratio Lower Upper

105 100

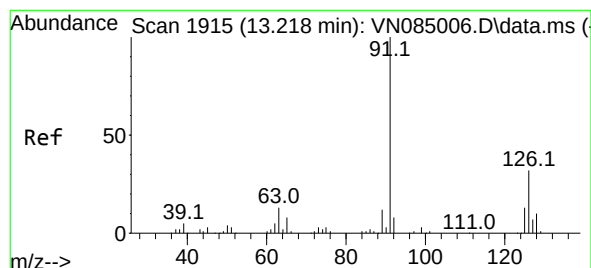
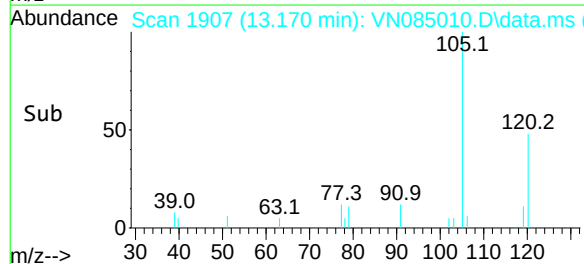
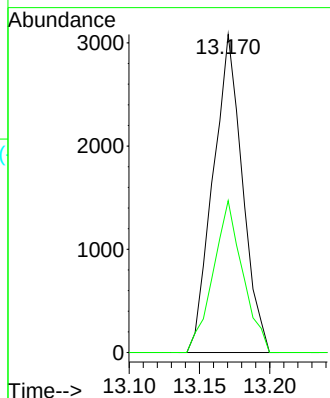
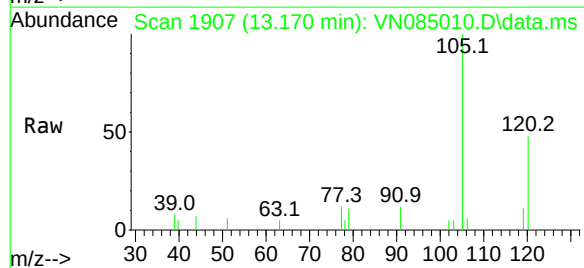
120 48.3 23.6 71.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#82

4-Chlorotoluene

Concen: 1.053 ug/l

RT: 13.223 min Scan# 1916

Delta R.T. 0.006 min

Lab File: VN085010.D

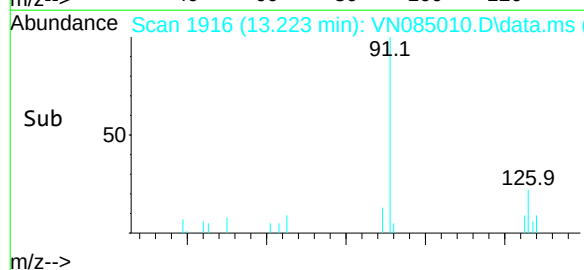
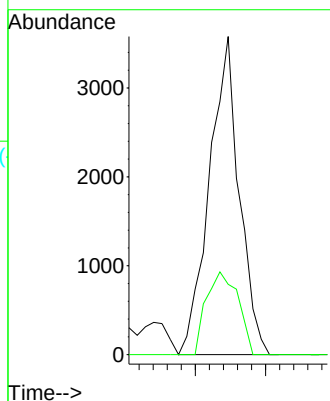
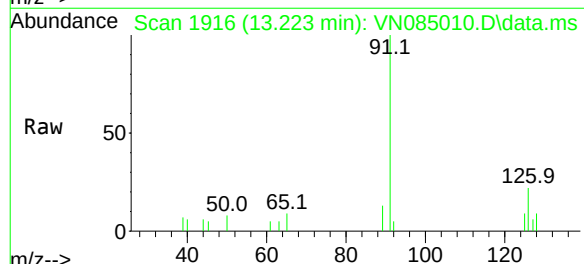
Acq: 22 Nov 2024 13:45

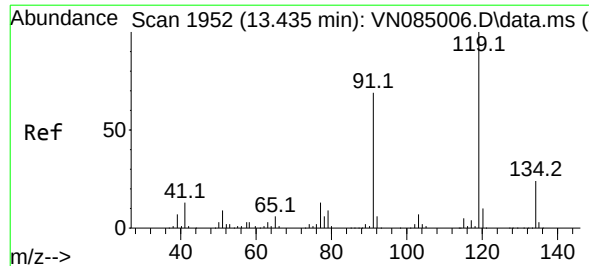
Tgt Ion: 91 Resp: 5286

Ion Ratio Lower Upper

91 100

126 27.6 16.1 48.3





#83

tert-Butylbenzene

Concen: 0.963 ug/l

RT: 13.435 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

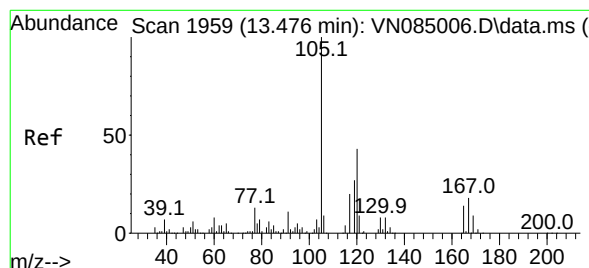
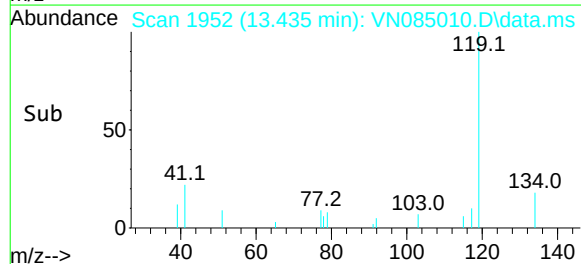
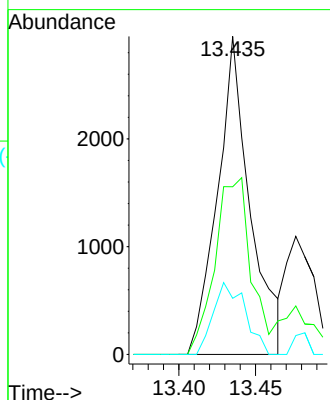
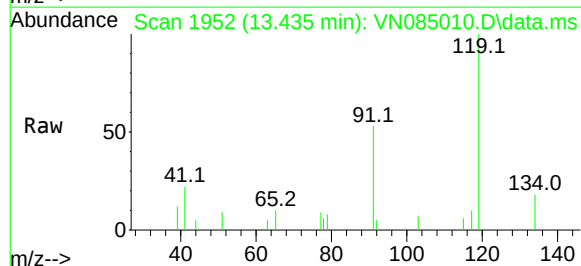
VSTDIC001

Tgt Ion:	119	Resp:	4357
Ion	Ratio	Lower	Upper
119	100		
91	61.2	35.1	105.5
134	22.2	12.1	36.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#84

1,2,4-Trimethylbenzene

Concen: 0.888 ug/l

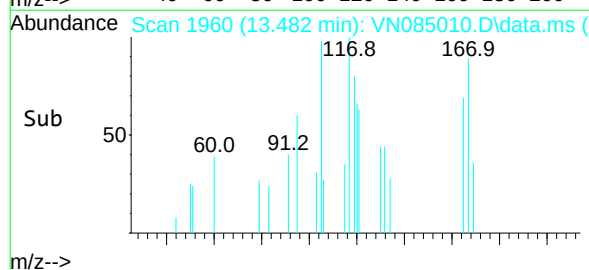
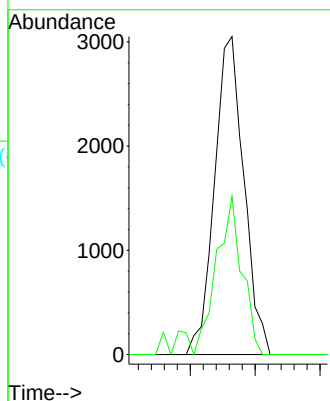
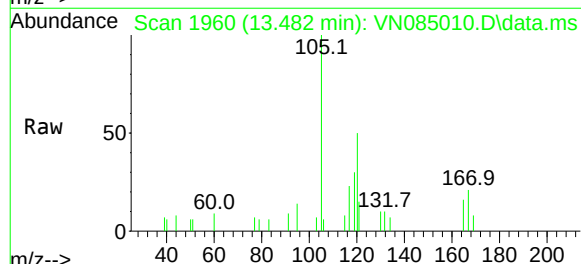
RT: 13.482 min Scan# 1960

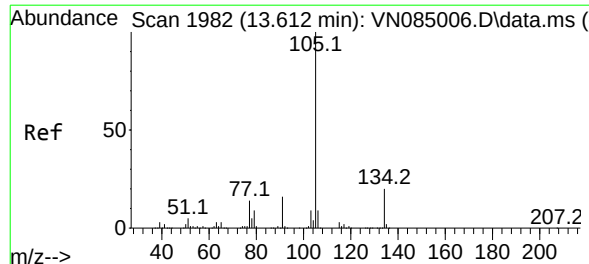
Delta R.T. 0.006 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Tgt Ion:	105	Resp:	4802
Ion	Ratio	Lower	Upper
105	100		
120	43.4	21.8	65.4





#85

sec-Butylbenzene

Concen: 0.865 ug/l

RT: 13.612 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion:105 Resp: 5284

Ion Ratio Lower Upper

105 100

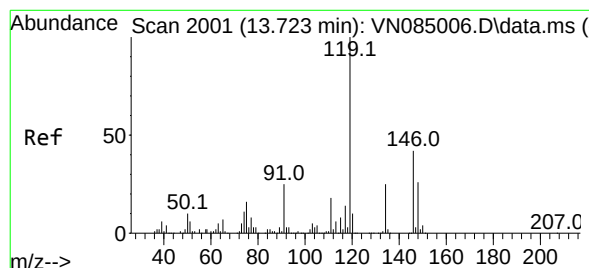
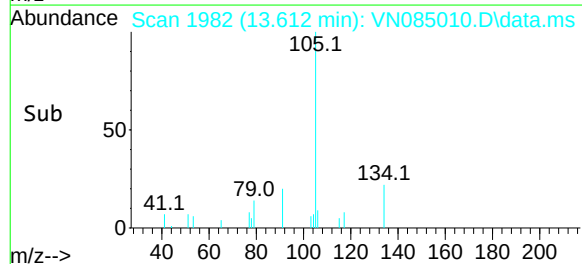
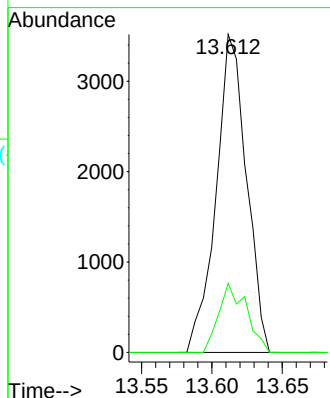
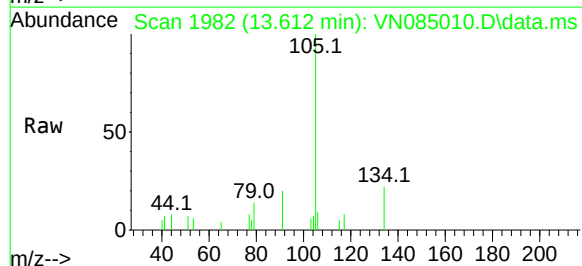
134 19.9 9.8 29.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#86

p-Isopropyltoluene

Concen: 0.803 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

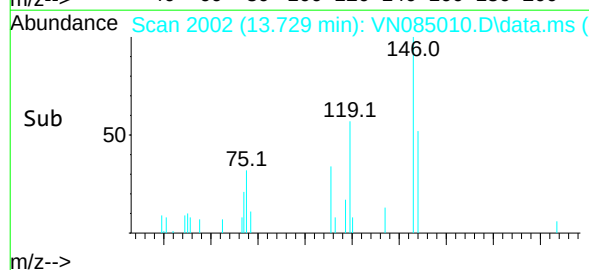
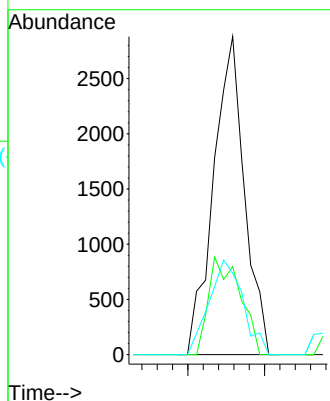
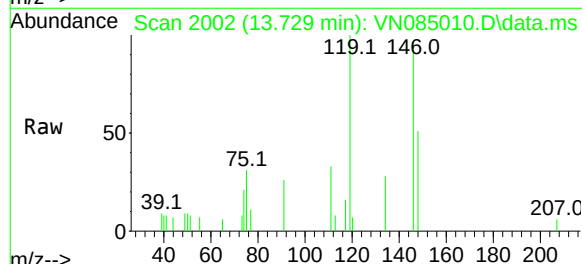
Tgt Ion:119 Resp: 4047

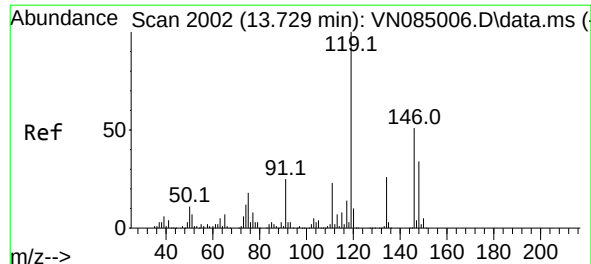
Ion Ratio Lower Upper

119 100

134 31.1 13.0 39.0

91 32.5 12.8 38.4





#87

1,3-Dichlorobenzene

Concen: 1.243 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

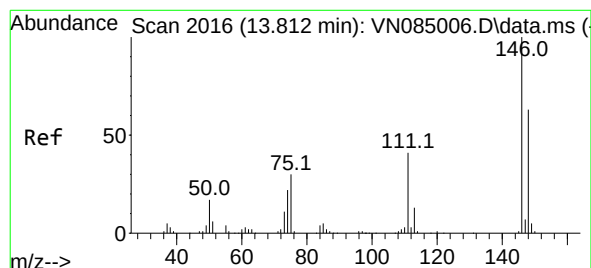
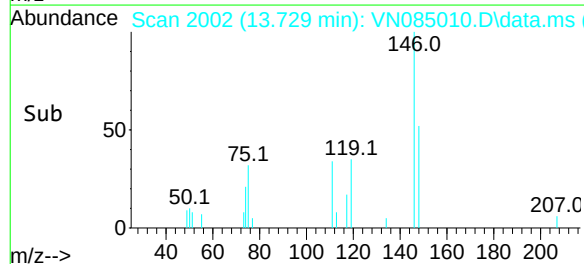
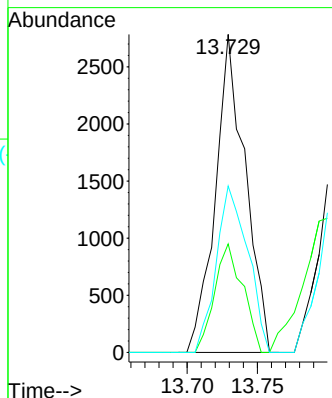
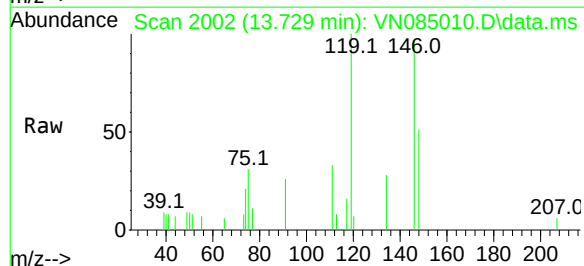
VSTDICC001

Tgt	Ion:146	Resp:	4131
Ion	Ratio	Lower	Upper
146	100		
111	32.0	21.6	65.0
148	54.9	32.2	96.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#88

1,4-Dichlorobenzene

Concen: 1.223 ug/l m

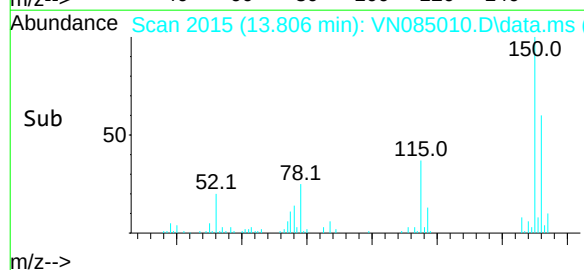
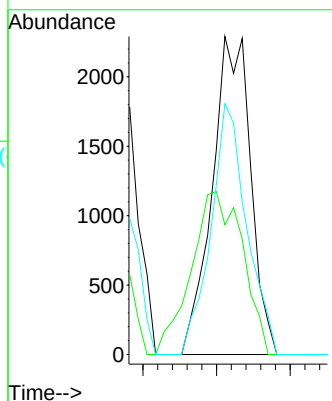
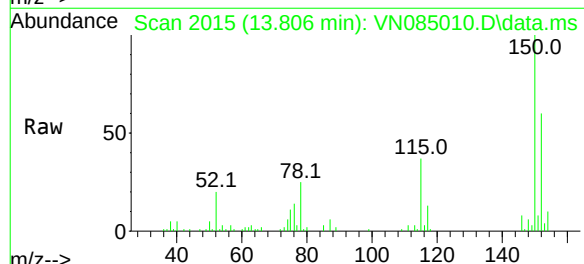
RT: 13.806 min Scan# 2015

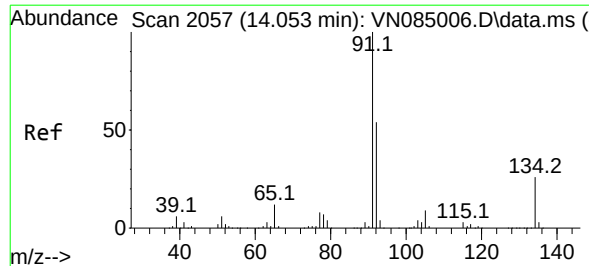
Delta R.T. -0.006 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Tgt	Ion:146	Resp:	4149
Ion	Ratio	Lower	Upper
146	100		
111	31.9	20.9	62.8
148	54.7	31.3	93.9





#89

n-Butylbenzene

Concen: 1.062 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

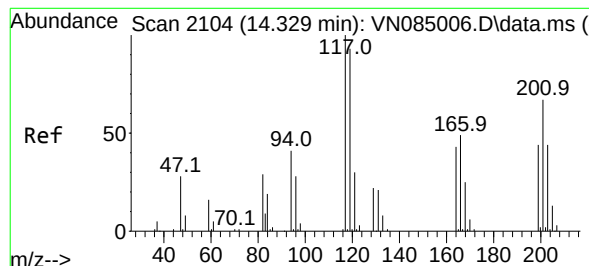
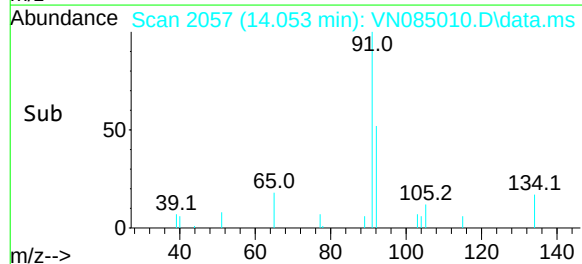
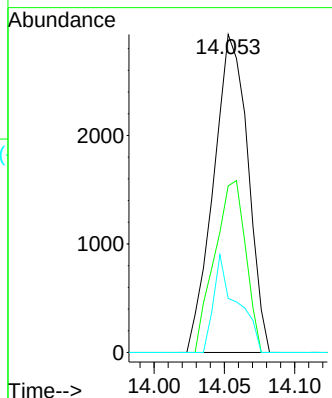
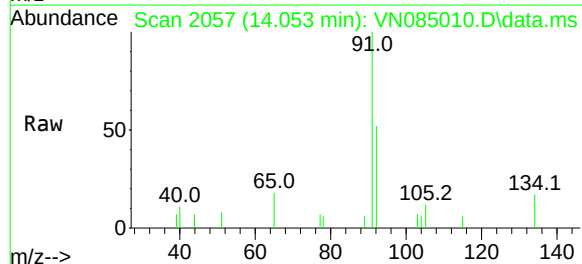
ClientSampleId :

VSTDIC001

Tgt	Ion	91	Resp:	4981
Ion	Ratio	Lower	Upper	
91	100			
92	48.8	26.8	80.3	
134	20.8	12.8	38.4	

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#90

Hexachloroethane

Concen: 1.107 ug/l

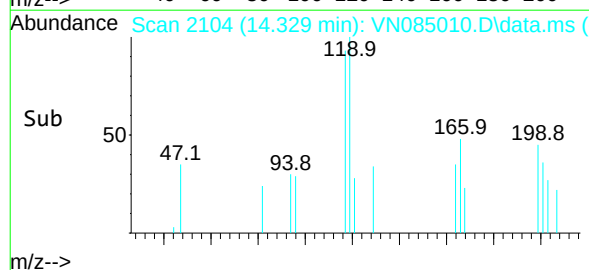
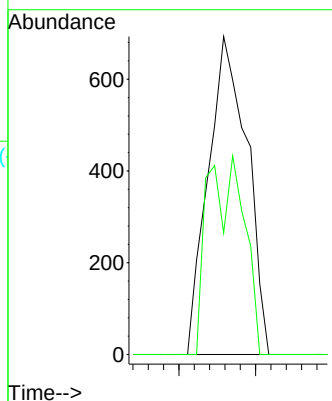
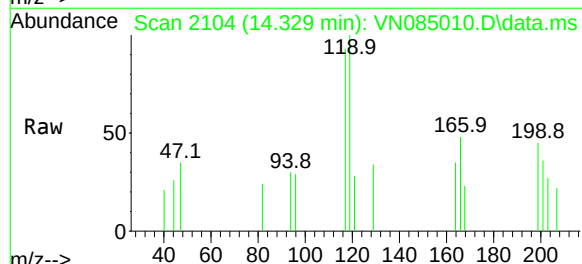
RT: 14.329 min Scan# 2104

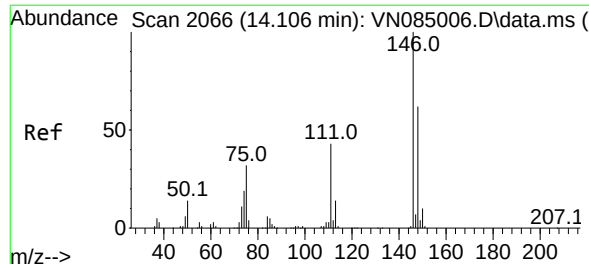
Delta R.T. -0.000 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Tgt	Ion	117	Resp:	1217
Ion	Ratio	Lower	Upper	
117	100			
201	30.8	35.2	105.6	





#91

1,2-Dichlorobenzene

Concen: 1.202 ug/l

RT: 14.100 min Scan# 2066

Delta R.T. -0.006 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

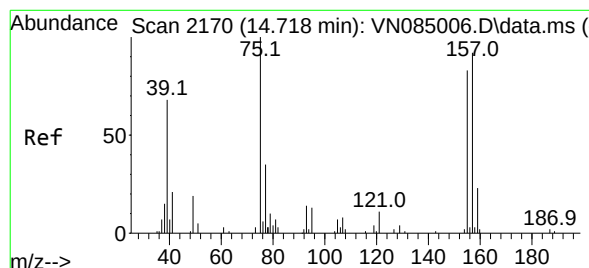
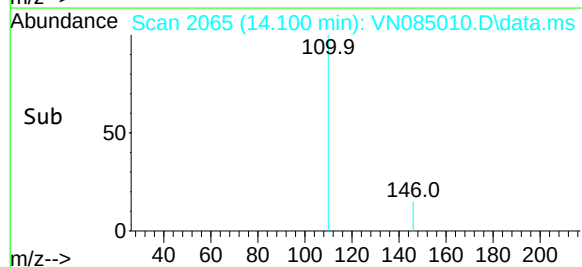
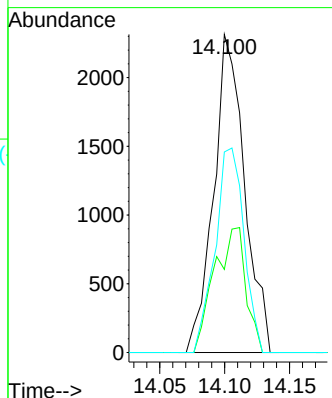
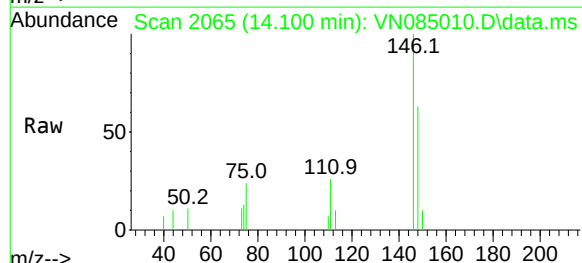
ClientSampleId :

VSTDIC001

Tgt Ion:	146	Resp:	3830
Ion	Ratio	Lower	Upper
146	100		
111	40.0	21.9	65.8
148	60.1	31.1	93.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.136 ug/l

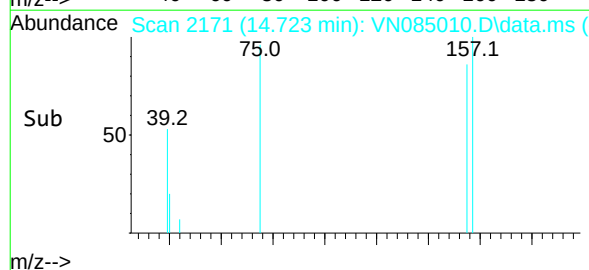
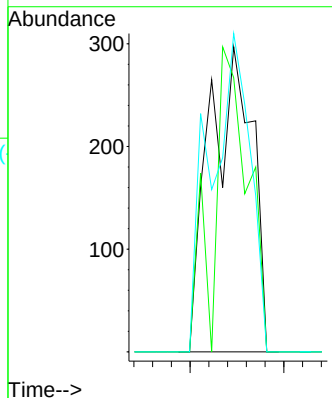
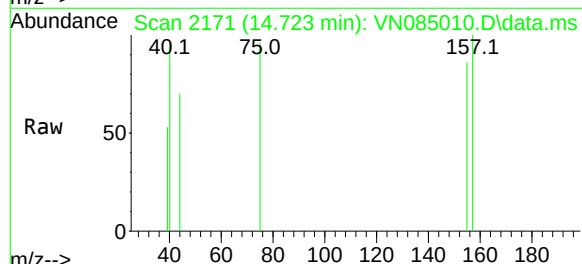
RT: 14.723 min Scan# 2171

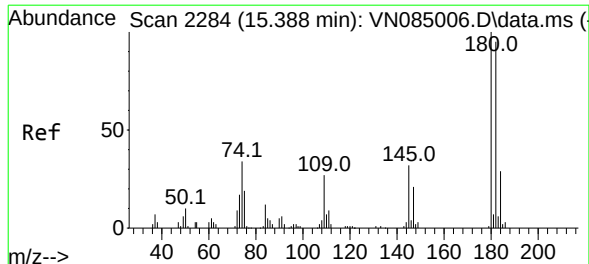
Delta R.T. 0.006 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Tgt Ion:	75	Resp:	470
Ion	Ratio	Lower	Upper
75	100		
155	80.4	38.9	116.7
157	96.2	48.3	144.9





#93

1,2,4-Trichlorobenzene

Concen: 1.209 ug/l

RT: 15.400 min Scan# 2284

Delta R.T. 0.012 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

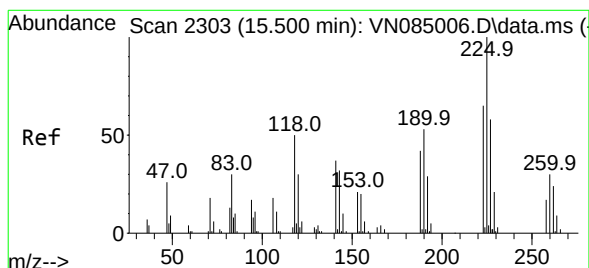
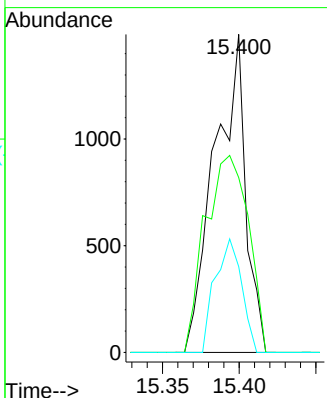
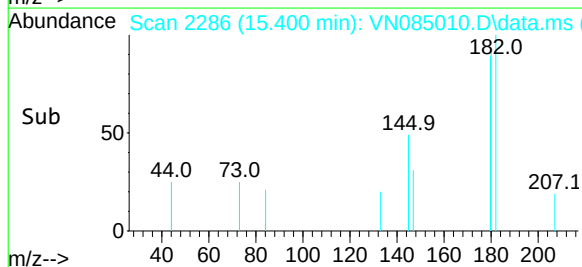
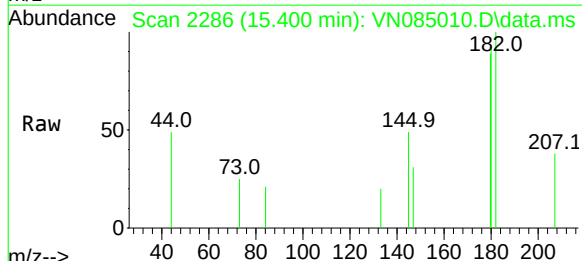
ClientSampleId :

VSTDICC001

Tgt	Ion:180	Resp:	2092
Ion	Ratio	Lower	Upper
180	100		
182	86.2	46.9	140.8
145	30.5	16.3	48.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#94

Hexachlorobutadiene

Concen: 1.236 ug/l

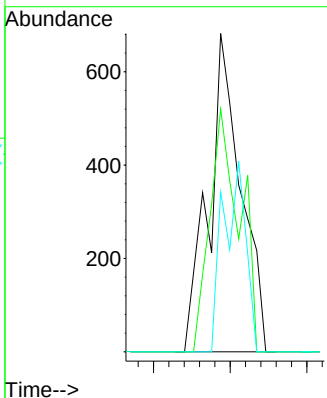
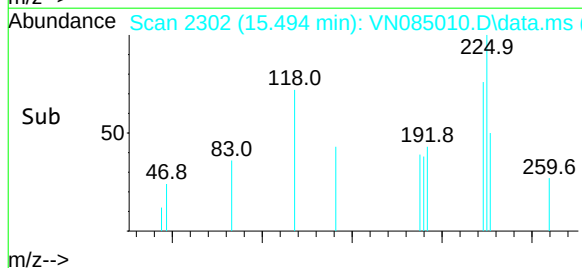
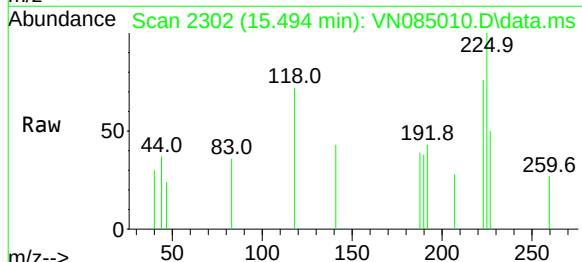
RT: 15.494 min Scan# 2302

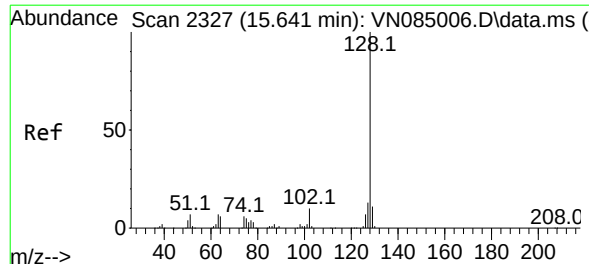
Delta R.T. -0.006 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Tgt	Ion:225	Resp:	987
Ion	Ratio	Lower	Upper
225	100		
223	71.1	30.9	92.8
227	42.1	31.5	94.5





#95

Naphthalene

Concen: 1.063 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. -0.000 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Instrument :

MSVOA_N

ClientSampleId :

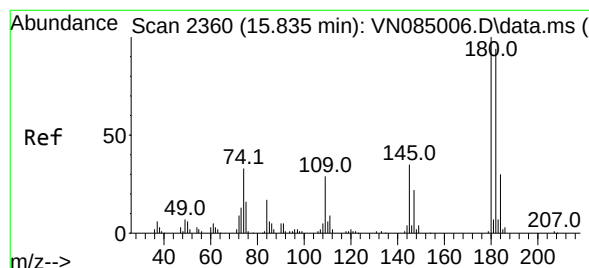
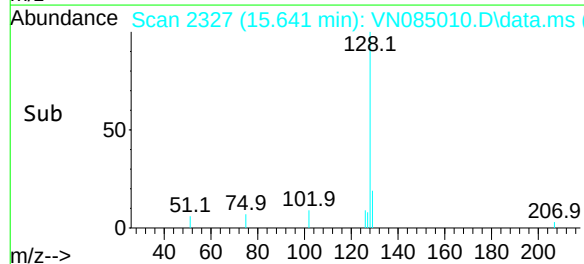
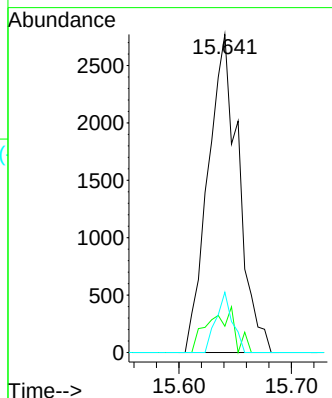
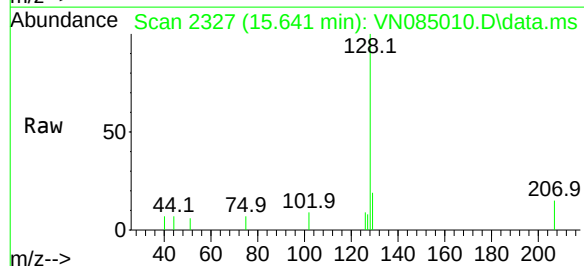
VSTDIC001

Tgt Ion:	128	Resp:	5242
Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.6	16.0
129	10.2	8.6	12.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#96

1,2,3-Trichlorobenzene

Concen: 1.120 ug/l

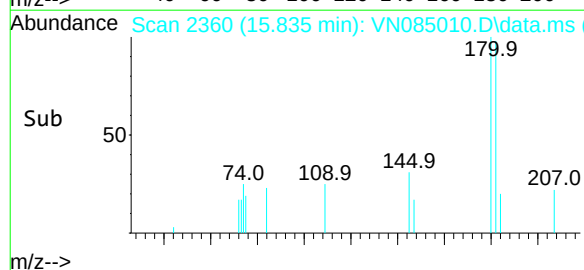
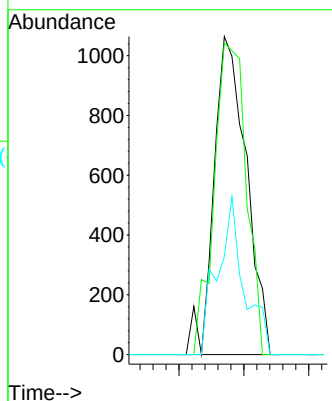
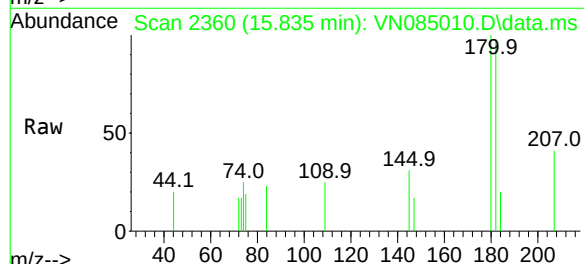
RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN085010.D

Acq: 22 Nov 2024 13:45

Tgt Ion:	180	Resp:	1849
Ion	Ratio	Lower	Upper
180	100		
182	97.3	46.4	139.2
145	40.6	17.3	52.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
 Data File : VN085012.D
 Acq On : 22 Nov 2024 16:07
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN112224

Quant Time: Nov 23 02:57:06 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 23 02:54:10 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2024
 Supervised By :Mahesh Dadoda 11/25/2024

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	180278	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	293712	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	254182	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	128770	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	129855	50.568	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	101.140%
35) Dibromofluoromethane	8.159	113	102148	51.572	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	103.140%
50) Toluene-d8	10.559	98	379679	53.488	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	106.980%
62) 4-Bromofluorobenzene	12.847	95	141423	53.276	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	106.560%

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	2.118	85	95019	46.612	ug/l	99
3) Chloromethane	2.359	50	99689	42.164	ug/l	98
4) Vinyl Chloride	2.512	62	97145	45.721	ug/l	95
5) Bromomethane	2.900	94	53525	44.945	ug/l	91
6) Chloroethane	3.077	64	59473	41.527	ug/l	94
7) Trichlorofluoromethane	3.477	101	165959	45.916	ug/l	94
8) Diethyl Ether	3.953	74	58978	47.942	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.359	101	93701	45.709	ug/l	99
10) Methyl Iodide	4.577	142	127705	47.063	ug/l	97
11) Tert butyl alcohol	5.536	59	74416	216.857	ug/l	97
12) 1,1-Dichloroethene	4.330	96	89314	46.677	ug/l	97
13) Acrolein	4.171	56	58781	256.710	ug/l	99
14) Allyl chloride	5.012	41	152182	47.178	ug/l	99
15) Acrylonitrile	5.712	53	225423	232.029	ug/l	99
16) Acetone	4.424	43	188963	252.665	ug/l	99
17) Carbon Disulfide	4.700	76	244899	43.362	ug/l #	94
18) Methyl Acetate	5.018	43	111346	46.500	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	303857	48.602	ug/l	98
20) Methylene Chloride	5.271	84	98339	43.090	ug/l	96
21) trans-1,2-Dichloroethene	5.777	96	92234	45.805	ug/l #	89
22) Diisopropyl ether	6.665	45	306957	47.281	ug/l	98
23) Vinyl Acetate	6.594	43	1108786	247.560	ug/l	100
24) 1,1-Dichloroethane	6.559	63	177343	45.647	ug/l	99
25) 2-Butanone	7.477	43	294434	240.802	ug/l	100
26) 2,2-Dichloropropane	7.488	77	168144	46.349	ug/l	98
27) cis-1,2-Dichloroethene	7.477	96	110716	45.609	ug/l	97
28) Bromochloromethane	7.812	49	67335	45.913	ug/l	97
29) Tetrahydrofuran	7.835	42	183433	241.241	ug/l	100
30) Chloroform	7.959	83	188550	45.623	ug/l	95
31) Cyclohexane	8.253	56	157639	46.084	ug/l	97
32) 1,1,1-Trichloroethane	8.159	97	170723	45.714	ug/l	99
36) 1,1-Dichloropropene	8.365	75	129026	48.093	ug/l	99
37) Ethyl Acetate	7.553	43	113781	46.651	ug/l	100
38) Carbon Tetrachloride	8.359	117	151265	48.846	ug/l	98
39) Methylcyclohexane	9.594	83	145286	52.114	ug/l	98
40) Benzene	8.600	78	404536	47.675	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
 Data File : VN085012.D
 Acq On : 22 Nov 2024 16:07
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN112224

Quant Time: Nov 23 02:57:06 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 23 02:54:10 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2024
 Supervised By :Mahesh Dadoda 11/25/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	66590	49.311	ug/l	98
42) 1,2-Dichloroethane	8.665	62	136508	47.025	ug/l	100
43) Isopropyl Acetate	8.688	43	210623	41.574	ug/l	99
44) Trichloroethene	9.347	130	93086	47.205	ug/l	98
45) 1,2-Dichloropropane	9.618	63	98380	47.073	ug/l	95
46) Dibromomethane	9.706	93	69575	47.909	ug/l	99
47) Bromodichloromethane	9.882	83	146603	47.631	ug/l	97
48) Methyl methacrylate	9.676	41	95959	50.900	ug/l	97
49) 1,4-Dioxane	9.694	88	31078	950.585	ug/l #	87
51) 4-Methyl-2-Pentanone	10.441	43	582480	251.720	ug/l	100
52) Toluene	10.629	92	249568	49.682	ug/l	99
53) t-1,3-Dichloropropene	10.829	75	150836	48.881	ug/l	97
54) cis-1,3-Dichloropropene	10.306	75	164009	50.100	ug/l	97
55) 1,1,2-Trichloroethane	11.012	97	92219	49.287	ug/l	99
56) Ethyl methacrylate	10.871	69	149537	54.694	ug/l	98
57) 1,3-Dichloropropane	11.159	76	158000	47.980	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	315602	235.323	ug/l	99
59) 2-Hexanone	11.194	43	444749	256.983	ug/l	100
60) Dibromochloromethane	11.359	129	108961	47.650	ug/l	99
61) 1,2-Dibromoethane	11.465	107	94657	48.883	ug/l	96
64) Tetrachloroethene	11.100	164	82753	48.316	ug/l	97
65) Chlorobenzene	11.888	112	264798	45.936	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	95374	46.991	ug/l	98
67) Ethyl Benzene	11.959	91	477400	51.046	ug/l	96
68) m/p-Xylenes	12.065	106	363006	101.951	ug/l	99
69) o-Xylene	12.394	106	173028	51.086	ug/l	98
70) Styrene	12.406	104	296759	52.687	ug/l	99
71) Bromoform	12.576	173	73244	48.617	ug/l #	98
73) Isopropylbenzene	12.694	105	445261	49.014	ug/l	100
74) N-ethyl acetate	12.494	43	184990	49.418	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	132755	42.796	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	105927m	45.225	ug/l	
77) Bromobenzene	12.976	156	108566	44.410	ug/l	99
78) n-propylbenzene	13.035	91	525567	50.160	ug/l	98
79) 2-Chlorotoluene	13.123	91	324611	46.409	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	382819	50.220	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	49617	46.764	ug/l	98
82) 4-Chlorotoluene	13.217	91	331271	45.496	ug/l	99
83) tert-Butylbenzene	13.435	119	320979	48.939	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	392031	49.962	ug/l	99
85) sec-Butylbenzene	13.612	105	444471	50.166	ug/l	99
86) p-Isopropyltoluene	13.729	119	378270	51.719	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	204731	42.459	ug/l	100
88) 1,4-Dichlorobenzene	13.812	146	202930	41.240	ug/l	97
89) n-Butylbenzene	14.053	91	325752	47.892	ug/l	100
90) Hexachloroethane	14.335	117	72271	45.332	ug/l	98
91) 1,2-Dichlorobenzene	14.106	146	200864	43.472	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	26503	44.183	ug/l	99
93) 1,2,4-Trichlorobenzene	15.394	180	107707	42.908	ug/l	99
94) Hexachlorobutadiene	15.500	225	49330	42.581	ug/l	99
95) Naphthalene	15.641	128	329352	46.067	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	102829	42.932	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085012.D
Acq On : 22 Nov 2024 16:07
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 23 02:57:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN112224

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024

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

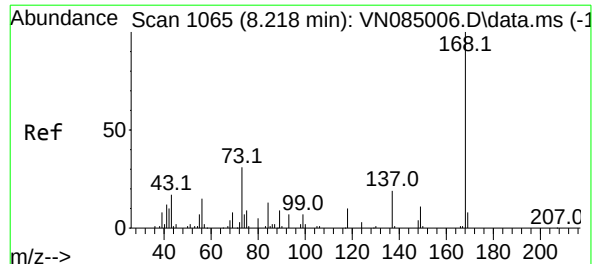
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
ICVVN112224

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024





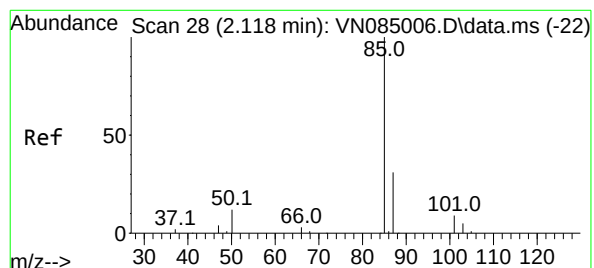
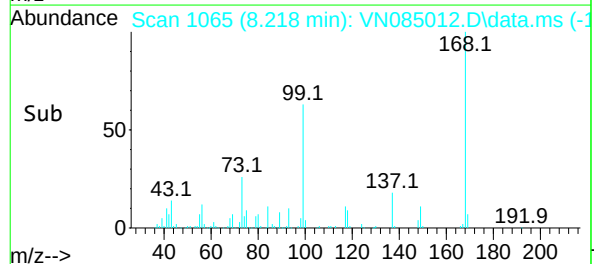
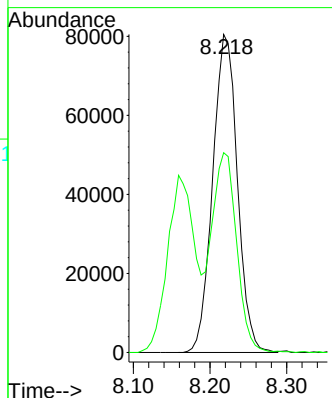
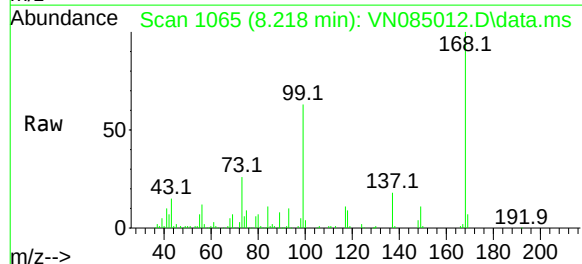
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Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085012.D
Acq: 22 Nov 2024 16:07

Instrument :
MSVOA_N
ClientSampleId :
ICNVN112224

Tgt Ion: 168 Resp: 180278
Ion Ratio Lower Upper
168 100
99 62.4 51.2 76.8

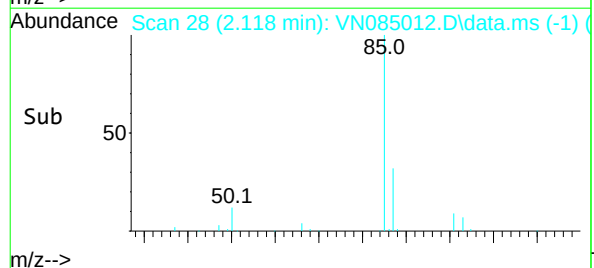
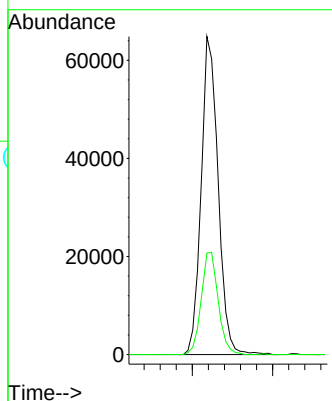
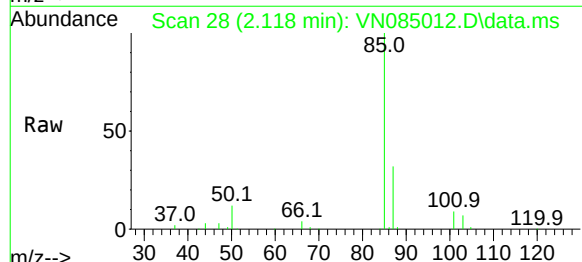
Manual Integrations
APPROVED

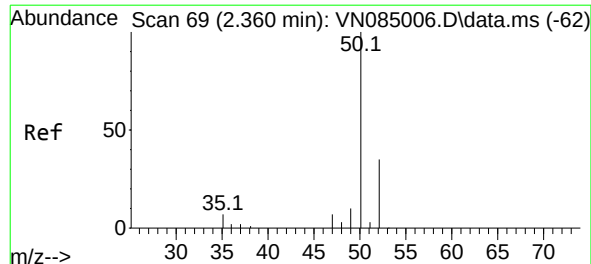
Reviewed By : John Carlone 11/25/2024
Supervised By : Mahesh Dadoda 11/25/2024



#2
Dichlorodifluoromethane
Concen: 46.612 ug/l
RT: 2.118 min Scan# 28
Delta R.T. -0.000 min
Lab File: VN085012.D
Acq: 22 Nov 2024 16:07

Tgt Ion: 85 Resp: 95019
Ion Ratio Lower Upper
85 100
87 31.9 15.7 47.1





#3

Chloromethane

Concen: 42.164 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

ICNVN112224

Tgt Ion: 50 Resp: 99689

Ion Ratio Lower Upper

50 100

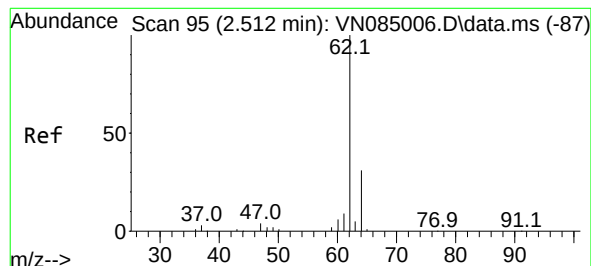
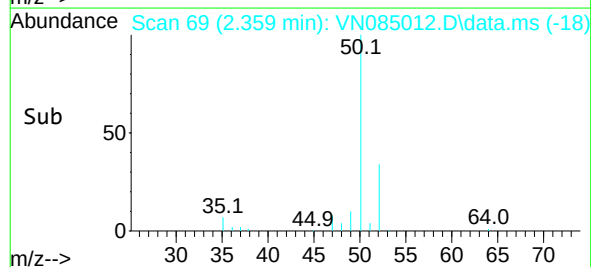
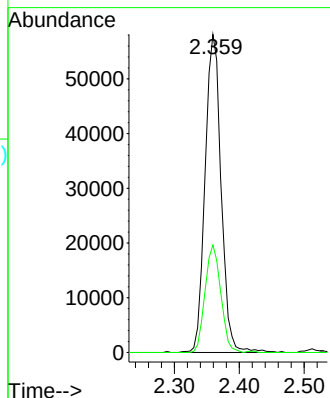
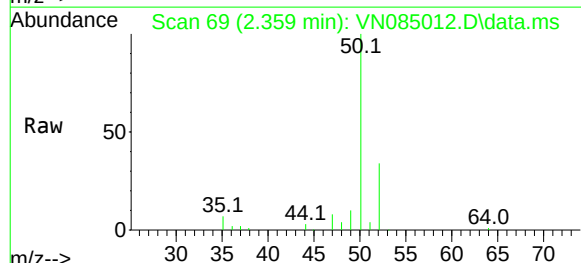
52 33.8 27.8 41.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#4

Vinyl Chloride

Concen: 45.721 ug/l

RT: 2.512 min Scan# 95

Delta R.T. -0.000 min

Lab File: VN085012.D

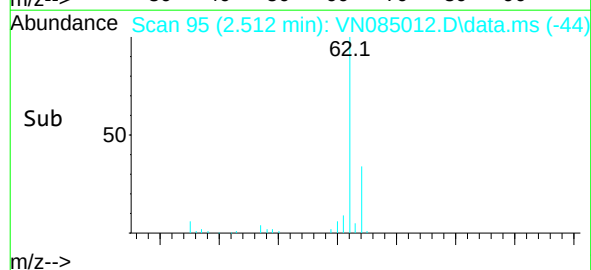
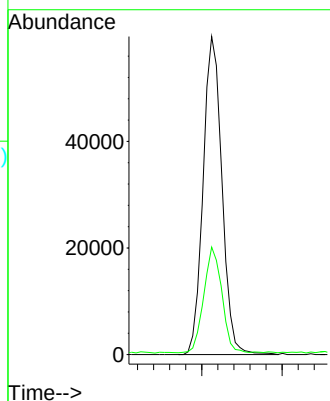
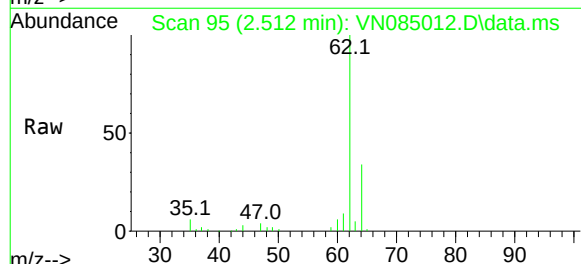
Acq: 22 Nov 2024 16:07

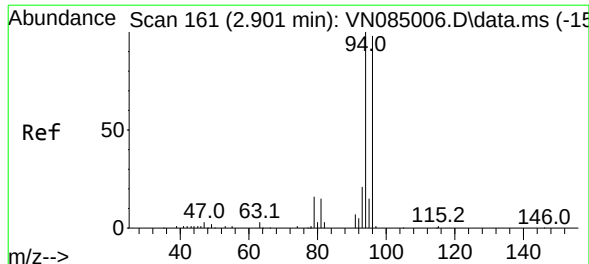
Tgt Ion: 62 Resp: 97145

Ion Ratio Lower Upper

62 100

64 33.2 24.6 36.8





#5

Bromomethane

Concen: 44.945 ug/l

RT: 2.900 min Scan# 161

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

ICNVN112224

Tgt Ion: 94 Resp: 53525

Ion Ratio Lower Upper

94 100

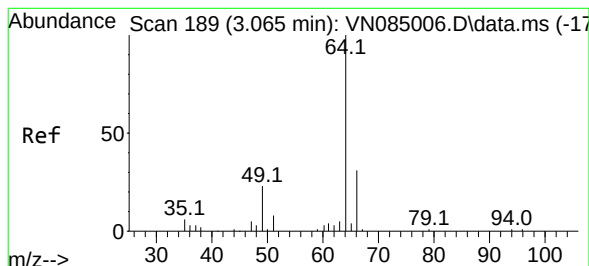
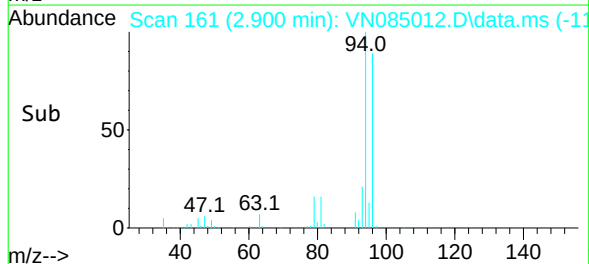
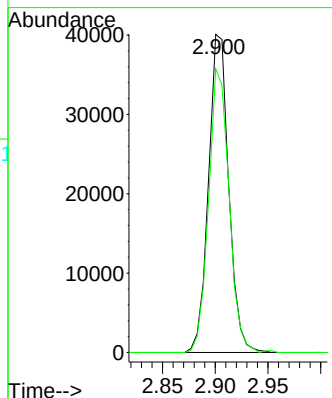
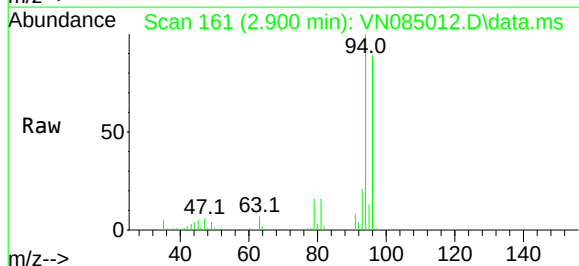
96 89.2 78.7 118.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#6

Chloroethane

Concen: 41.527 ug/l

RT: 3.077 min Scan# 191

Delta R.T. 0.012 min

Lab File: VN085012.D

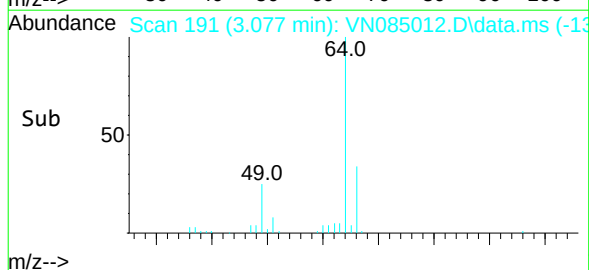
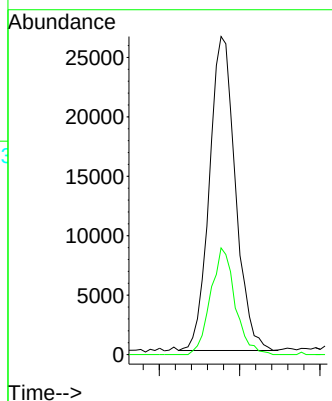
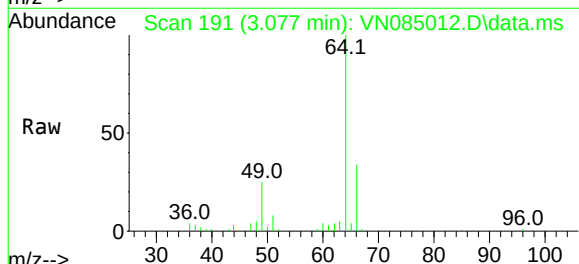
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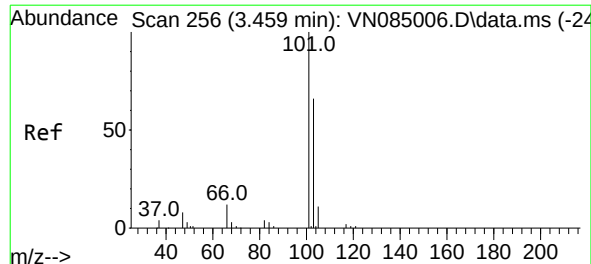
Tgt Ion: 64 Resp: 59473

Ion Ratio Lower Upper

64 100

66 34.0 24.4 36.6





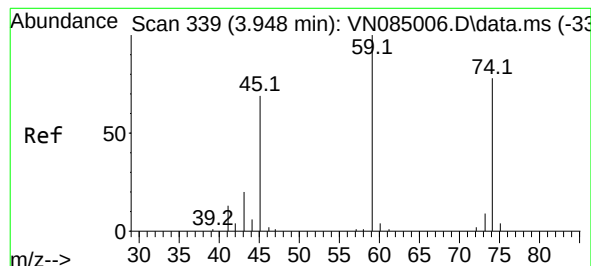
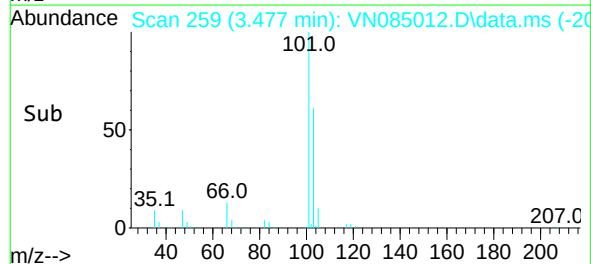
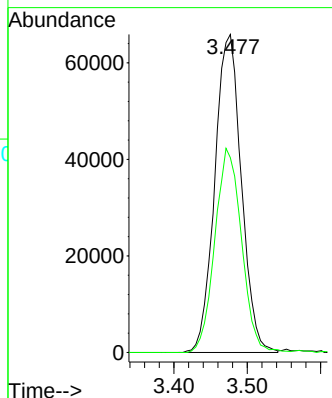
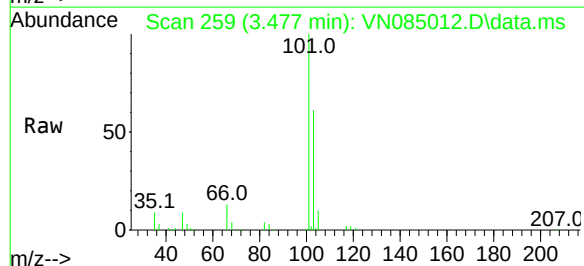
#7
Trichlorofluoromethane
Concen: 45.916 ug/l
RT: 3.477 min Scan# 256
Delta R.T. 0.017 min
Lab File: VN085012.D
Acq: 22 Nov 2024 16:07

Instrument :
MSVOA_N
ClientSampleId :
ICNVN112224

Tgt Ion: 101 Resp: 165959
Ion Ratio Lower Upper
101 100
103 61.3 52.6 78.8

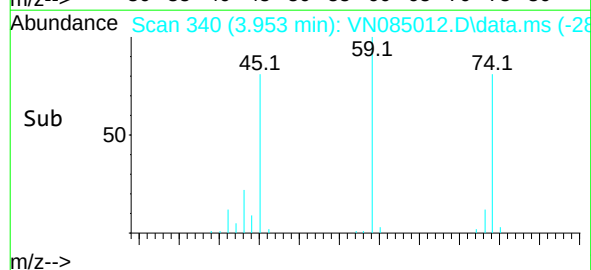
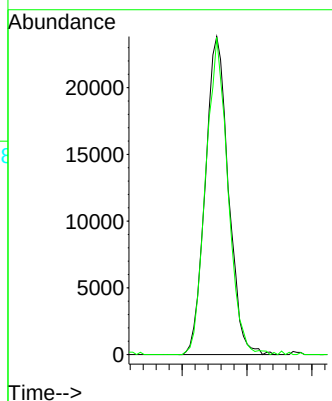
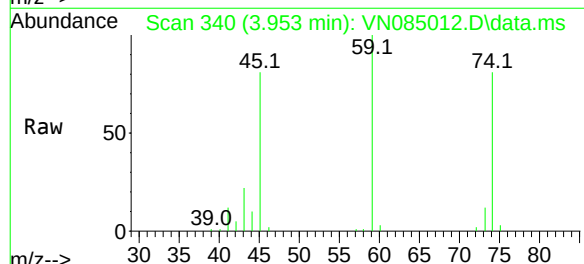
Manual Integrations
APPROVED

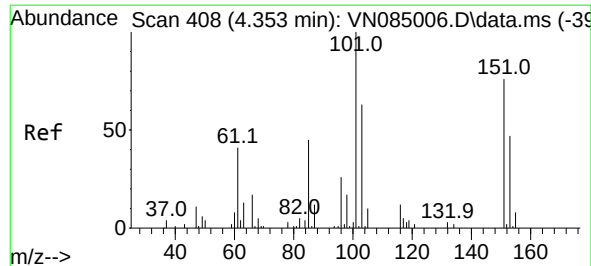
Reviewed By : John Carlone 11/25/2024
Supervised By : Mahesh Dadoda 11/25/2024



#8
Diethyl Ether
Concen: 47.942 ug/l
RT: 3.953 min Scan# 340
Delta R.T. 0.006 min
Lab File: VN085012.D
Acq: 22 Nov 2024 16:07

Tgt Ion: 74 Resp: 58978
Ion Ratio Lower Upper
74 100
45 95.6 46.7 140.1





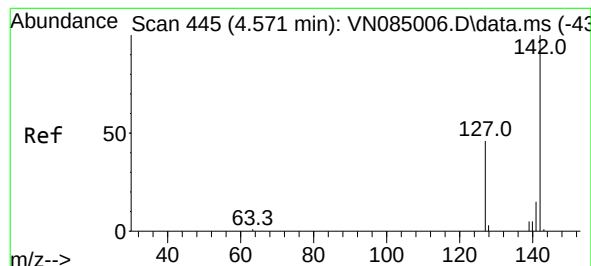
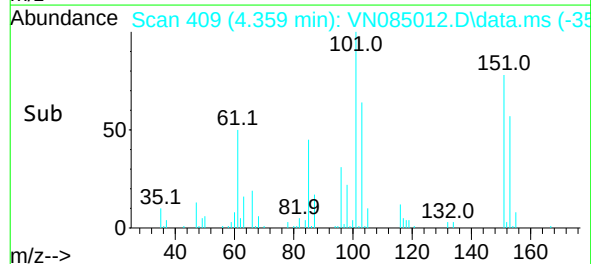
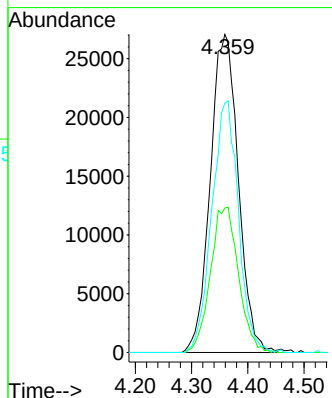
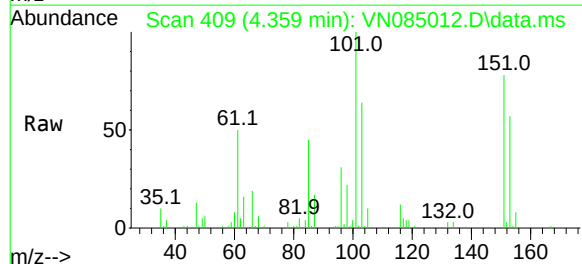
#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.709 ug/l
RT: 4.359 min Scan# 408
Delta R.T. 0.006 min
Lab File: VN085012.D
Acq: 22 Nov 2024 16:07

Instrument :
MSVOA_N
ClientSampleId :
ICNVN112224

Tgt Ion:101 Resp: 93701
Ion Ratio Lower Upper
101 100
85 45.7 36.9 55.3
151 75.2 60.8 91.2

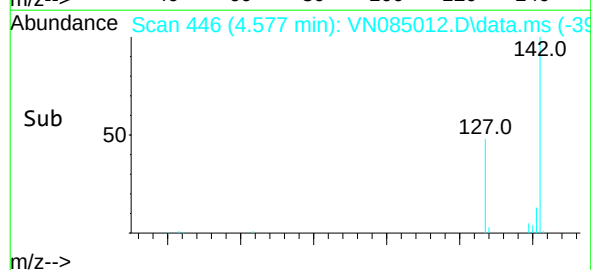
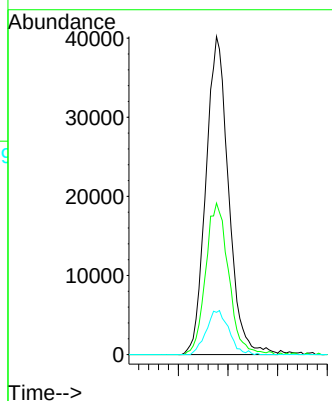
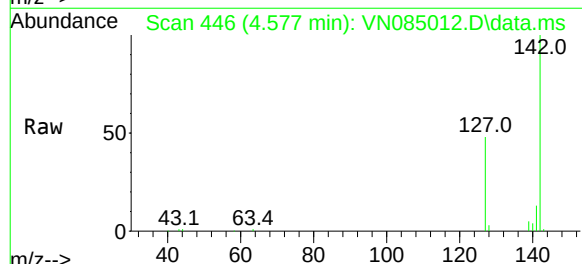
Manual Integrations
APPROVED

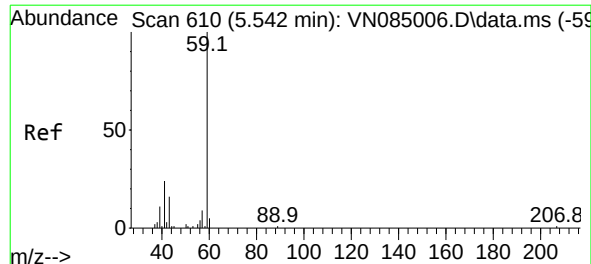
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#10
Methyl Iodide
Concen: 47.063 ug/l
RT: 4.577 min Scan# 446
Delta R.T. 0.006 min
Lab File: VN085012.D
Acq: 22 Nov 2024 16:07

Tgt Ion:142 Resp: 127705
Ion Ratio Lower Upper
142 100
127 47.6 36.6 54.8
141 13.3 12.2 18.4





#11

Tert butyl alcohol

Concen: 216.857 ug/l

RT: 5.536 min Scan# 609

Delta R.T. -0.006 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

ICVN112224

Tgt Ion: 59 Resp: 74416

Ion Ratio Lower Upper

59 100

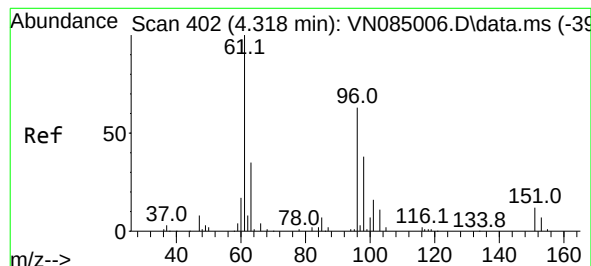
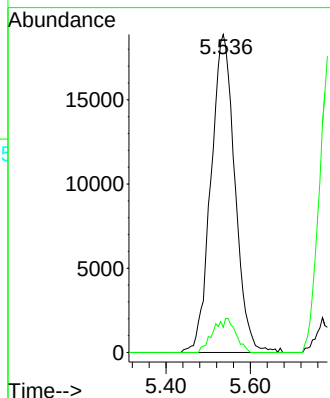
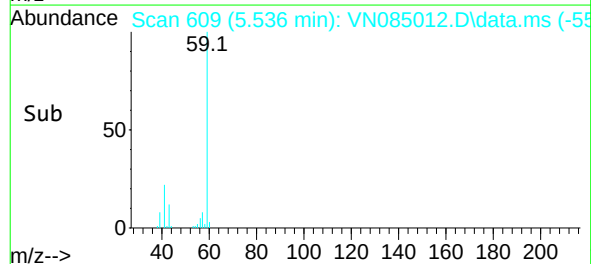
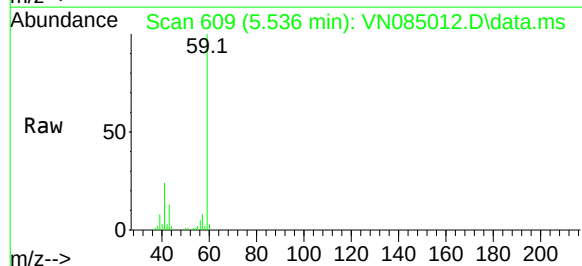
57 10.1 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#12

1,1-Dichloroethene

Concen: 46.677 ug/l

RT: 4.330 min Scan# 404

Delta R.T. 0.012 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

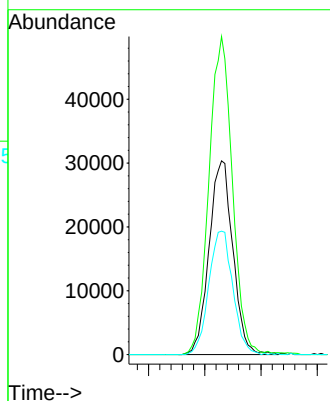
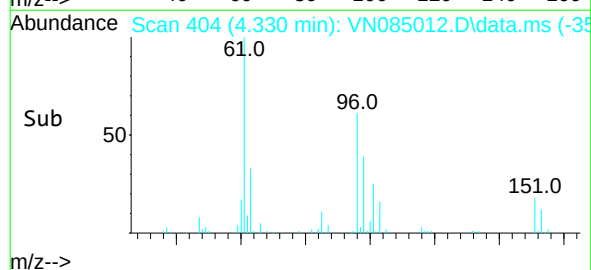
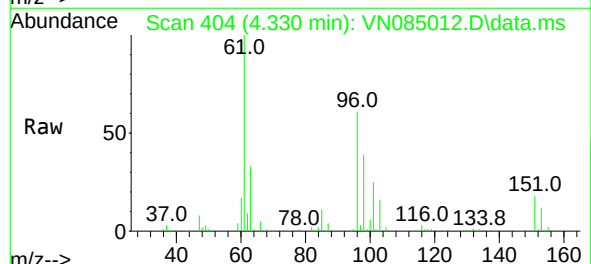
Tgt Ion: 96 Resp: 89314

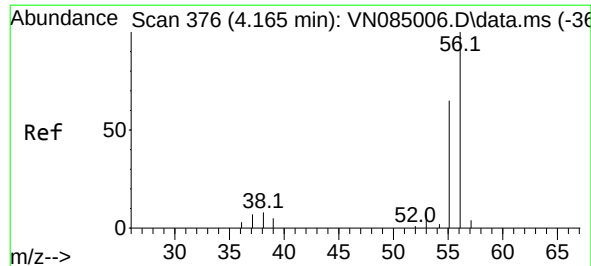
Ion Ratio Lower Upper

96 100

61 164.2 127.8 191.8

98 63.7 49.2 73.8





#13

Acrolein

Concen: 256.710 ug/l

RT: 4.171 min Scan# 37

Delta R.T. 0.006 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

ICNVN112224

Tgt Ion: 56 Resp: 58781

Ion Ratio Lower Upper

56 100

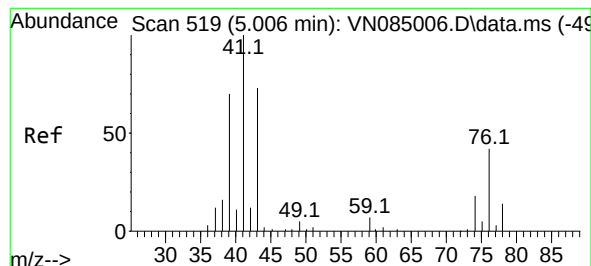
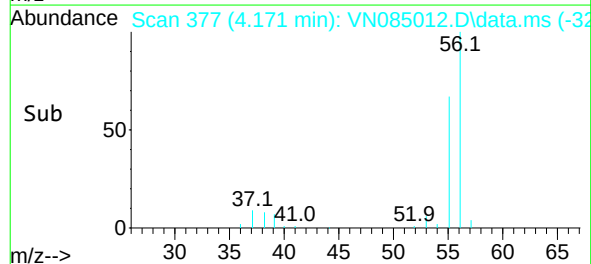
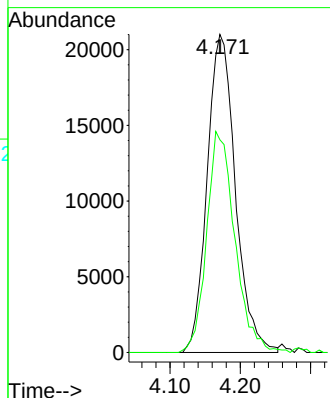
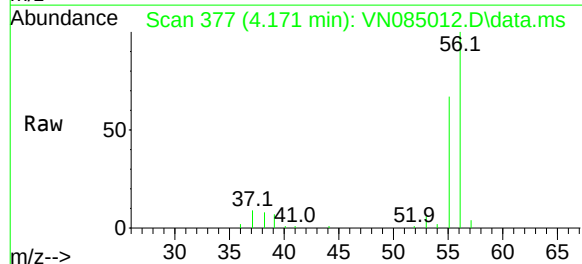
55 69.2 54.5 81.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#14

Allyl chloride

Concen: 47.178 ug/l

RT: 5.012 min Scan# 520

Delta R.T. 0.006 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

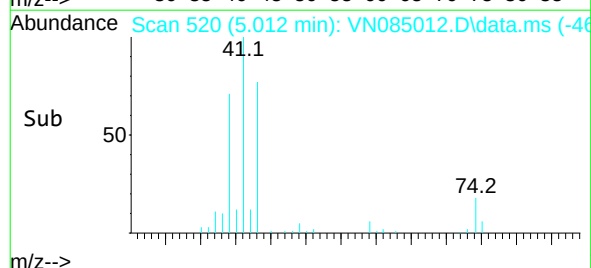
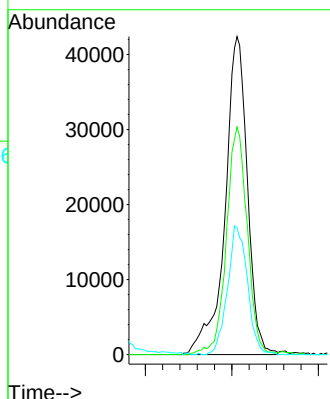
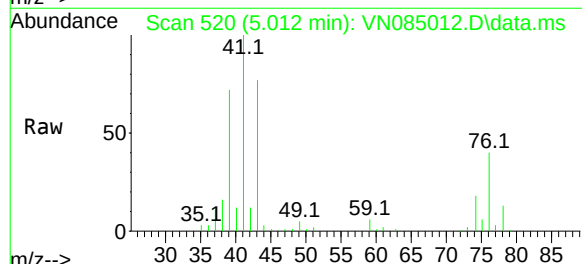
Tgt Ion: 41 Resp: 152182

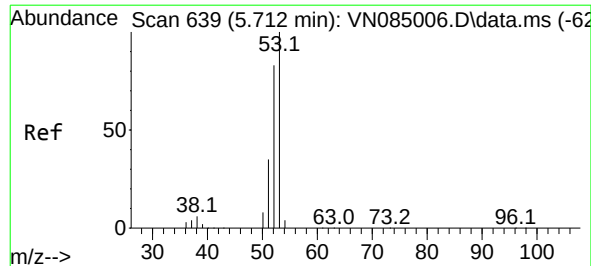
Ion Ratio Lower Upper

41 100

39 66.6 53.8 80.8

76 35.9 29.3 43.9





#15

Acrylonitrile

Concen: 232.029 ug/l

RT: 5.712 min Scan# 639

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

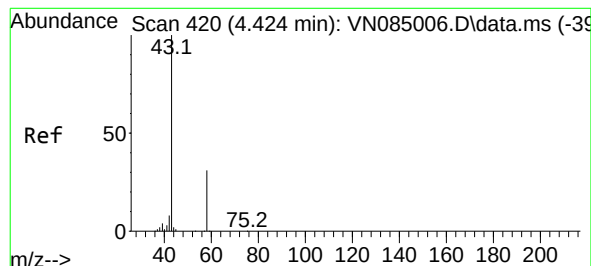
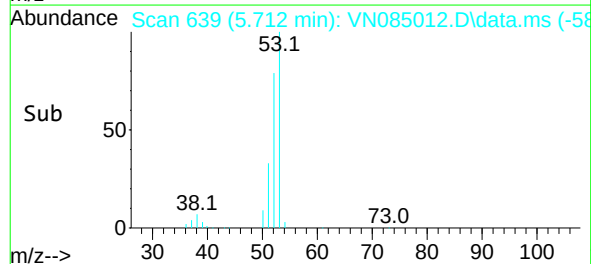
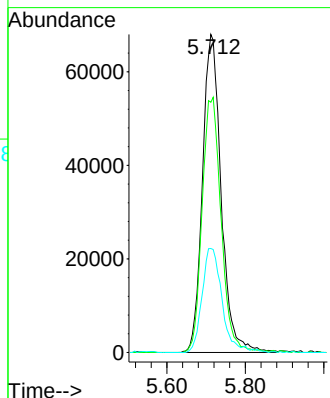
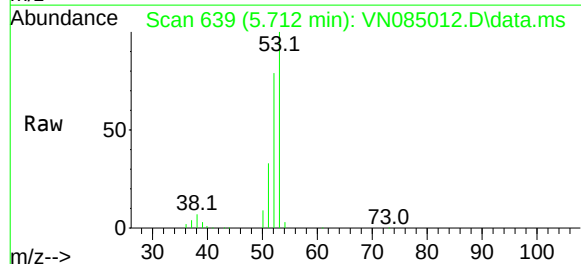
ClientSampleId :

ICNVN112224

Tgt Ion:	53	Resp:	225423
Ion	Ratio	Lower	Upper
53	100		
52	81.5	65.5	98.3
51	34.6	28.4	42.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#16

Acetone

Concen: 252.665 ug/l

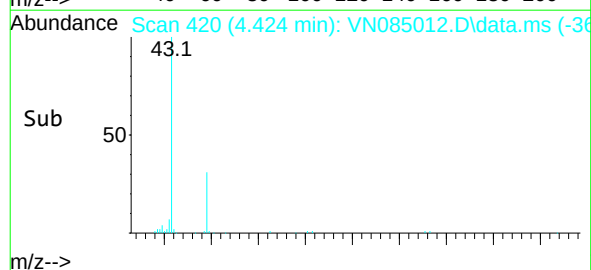
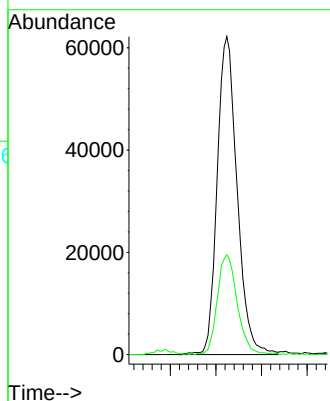
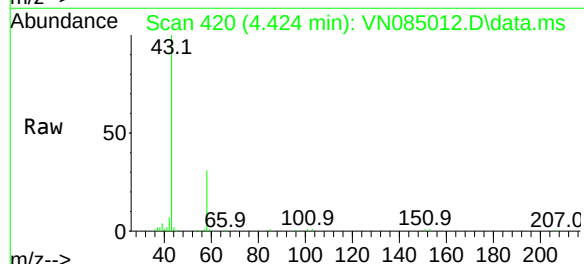
RT: 4.424 min Scan# 420

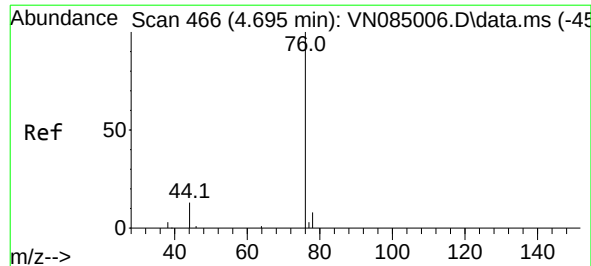
Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Tgt Ion:	43	Resp:	188963
Ion	Ratio	Lower	Upper
43	100		
58	31.1	25.4	38.2





#17

Carbon Disulfide

Concen: 43.362 ug/l

RT: 4.700 min Scan# 46

Delta R.T. 0.006 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

ICNVN112224

Tgt Ion: 76 Resp: 244899

Ion Ratio Lower Upper

76 100

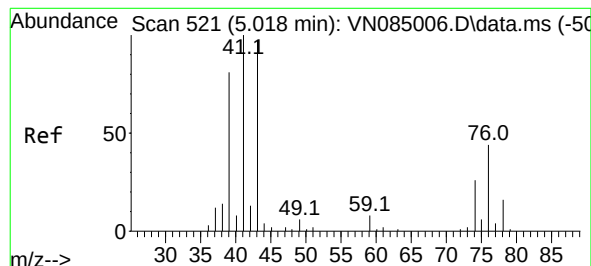
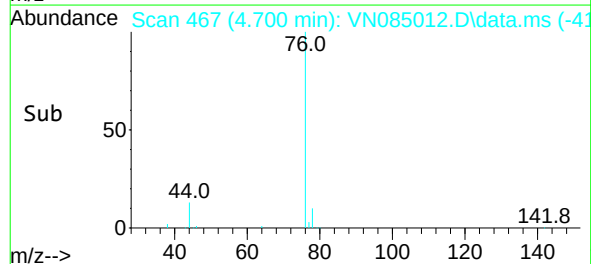
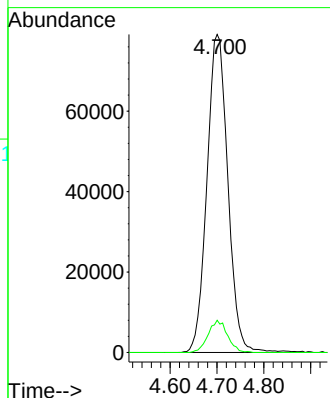
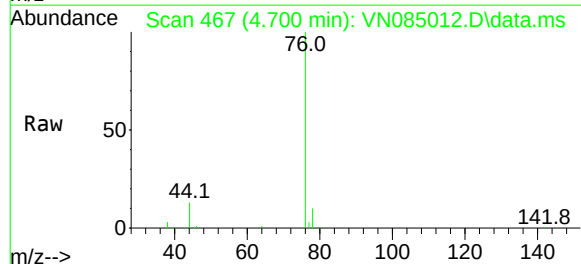
78 10.1 6.5 9.7#

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#18

Methyl Acetate

Concen: 46.500 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN085012.D

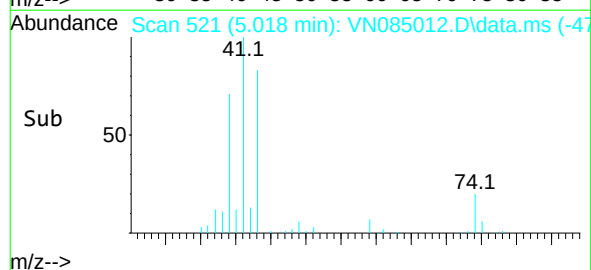
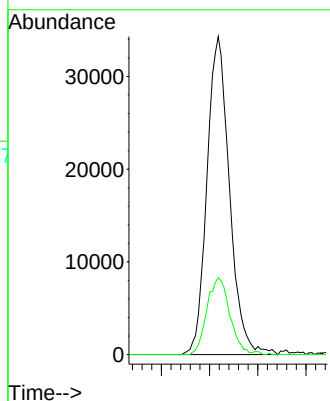
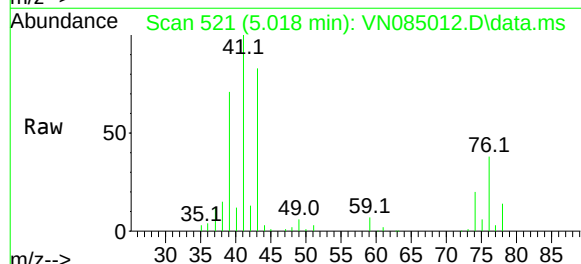
Acq: 22 Nov 2024 16:07

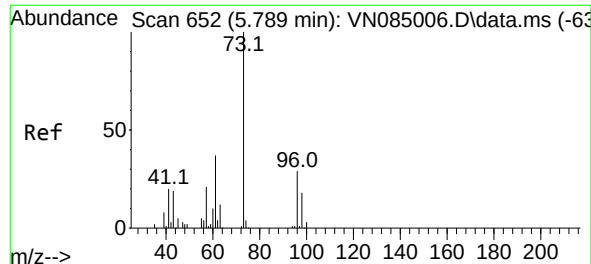
Tgt Ion: 43 Resp: 111346

Ion Ratio Lower Upper

43 100

74 24.4 20.1 30.1





#19

Methyl tert-butyl Ether

Concen: 48.602 ug/l

RT: 5.789 min Scan# 65

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

ICVNV112224

Tgt Ion: 73 Resp: 303857

Ion Ratio Lower Upper

73 100

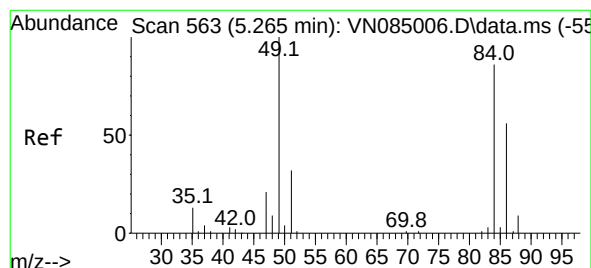
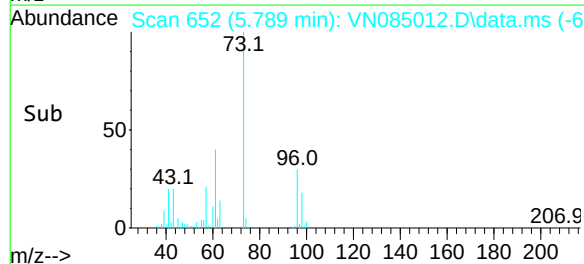
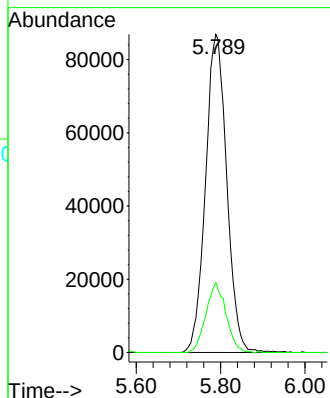
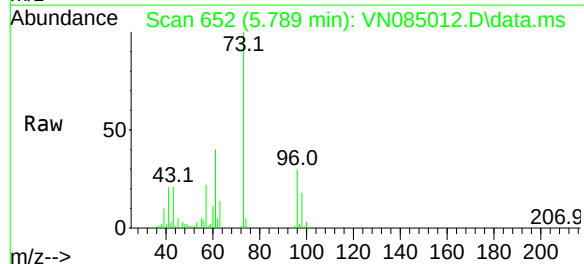
57 21.9 17.0 25.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#20

Methylene Chloride

Concen: 43.090 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.006 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Tgt Ion: 84 Resp: 98339

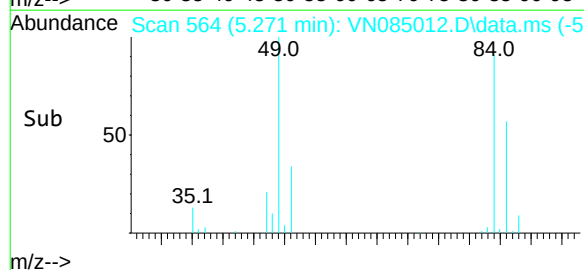
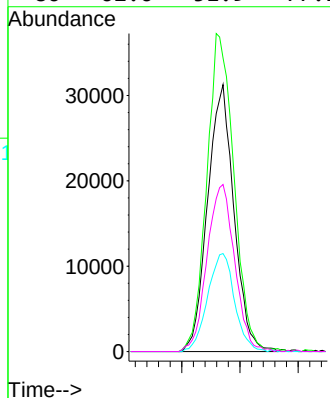
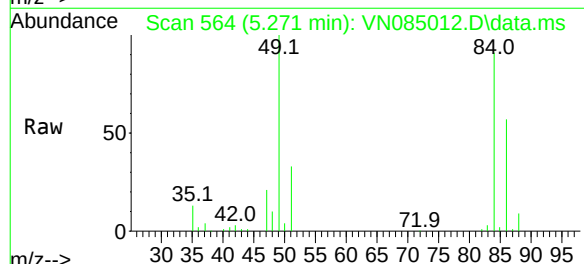
Ion Ratio Lower Upper

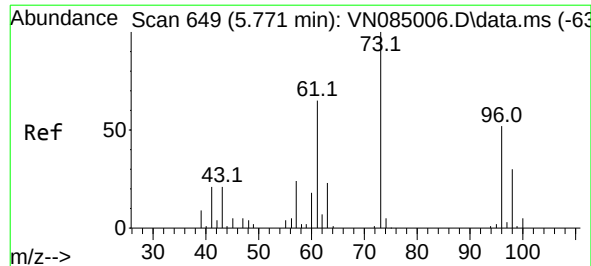
84 100

49 110.0 92.7 139.1

51 36.7 29.4 44.2

86 62.6 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 45.805 ug/l

RT: 5.777 min Scan# 65

Delta R.T. 0.006 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

ICNVN112224

Tgt Ion: 96 Resp: 92234

Ion Ratio Lower Upper

96 100

61 136.1 100.7 151.1

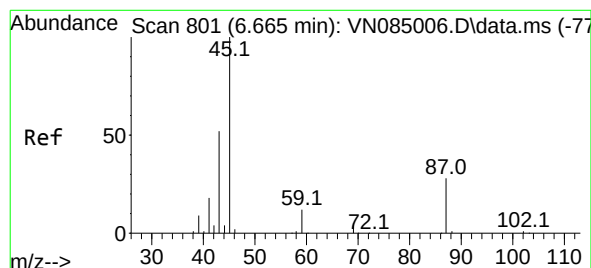
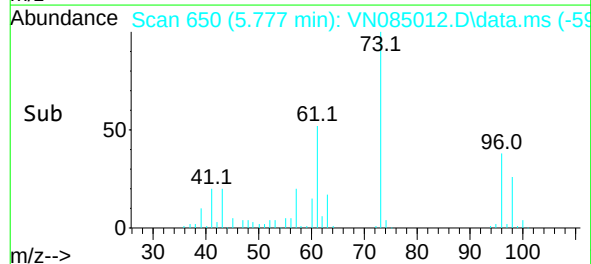
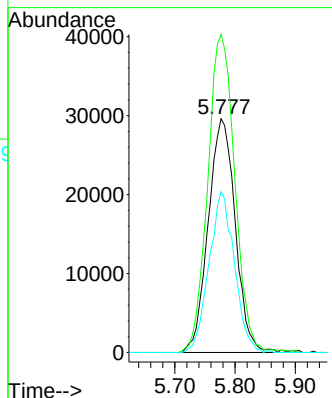
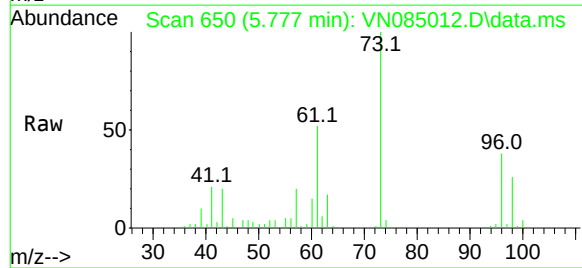
98 68.7 45.8 68.6#

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#22

Diisopropyl ether

Concen: 47.281 ug/l

RT: 6.665 min Scan# 801

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Tgt Ion: 45 Resp: 306957

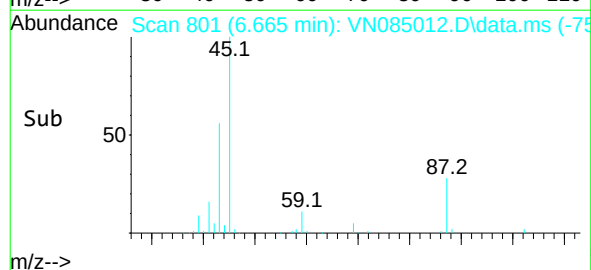
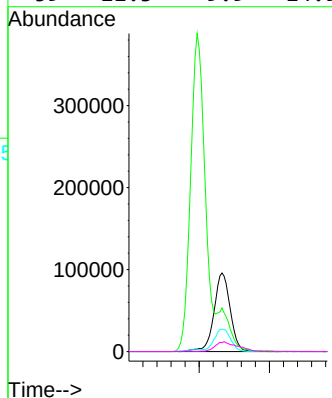
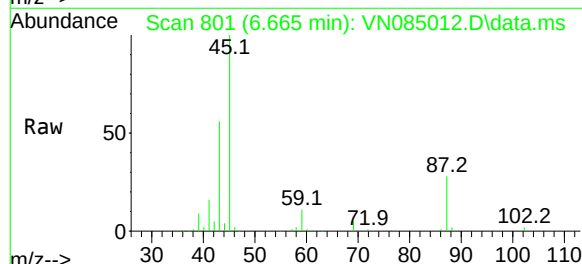
Ion Ratio Lower Upper

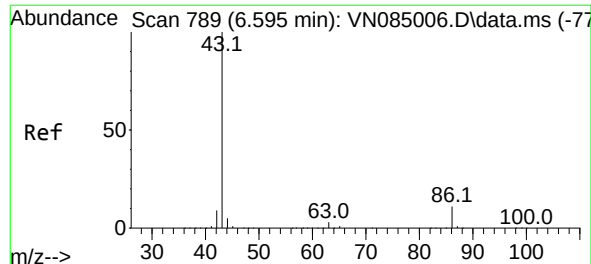
45 100

43 55.0 42.7 64.1

87 28.5 22.6 34.0

59 11.3 9.9 14.9





#23

Vinyl Acetate

Concen: 247.560 ug/l

RT: 6.594 min Scan# 789

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

ICNVN112224

Tgt Ion: 43 Resp: 1108786

Ion Ratio Lower Upper

43 100

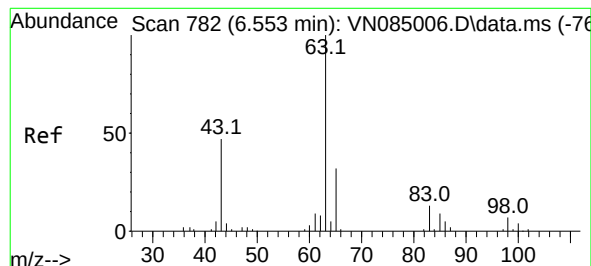
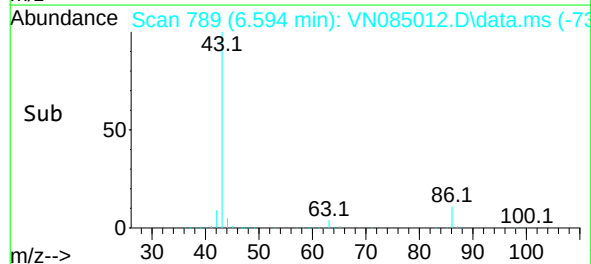
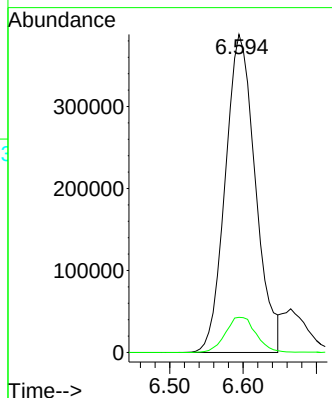
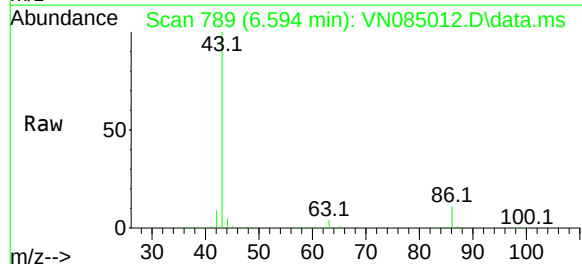
86 11.0 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#24

1,1-Dichloroethane

Concen: 45.647 ug/l

RT: 6.559 min Scan# 783

Delta R.T. 0.006 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

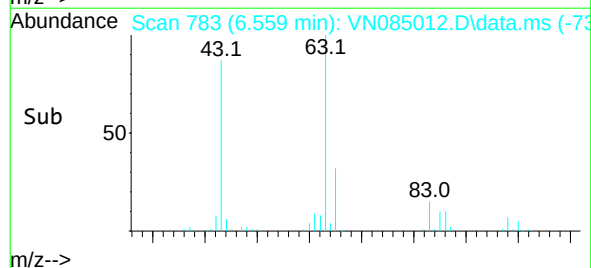
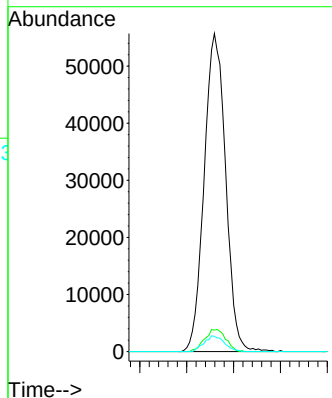
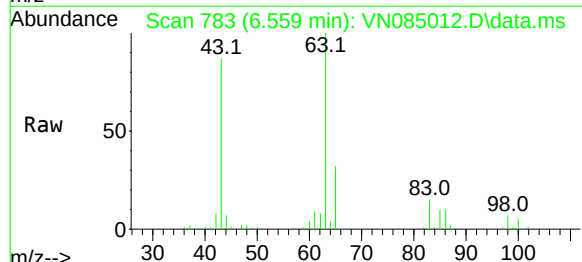
Tgt Ion: 63 Resp: 177343

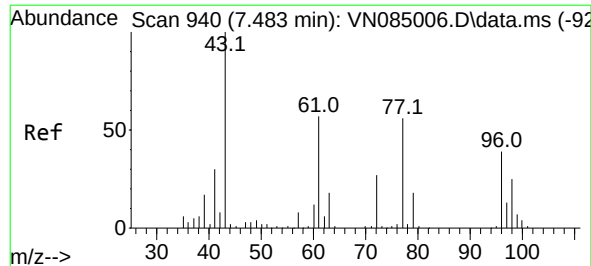
Ion Ratio Lower Upper

63 100

98 6.7 3.3 9.8

100 4.8 2.2 6.6





#25

2-Butanone

Concen: 240.802 ug/l

RT: 7.477 min Scan# 93

Delta R.T. -0.006 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

ICNVN112224

Tgt Ion: 43 Resp: 294434

Ion Ratio Lower Upper

43 100

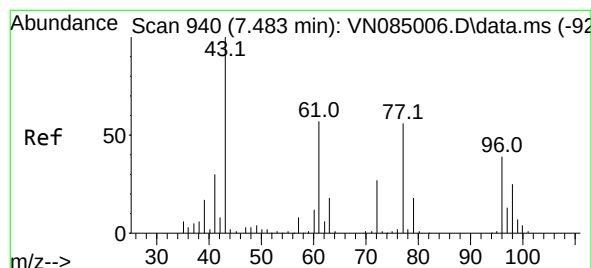
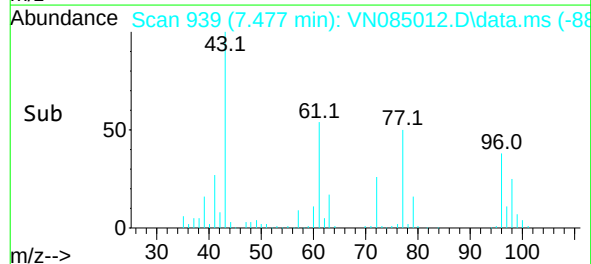
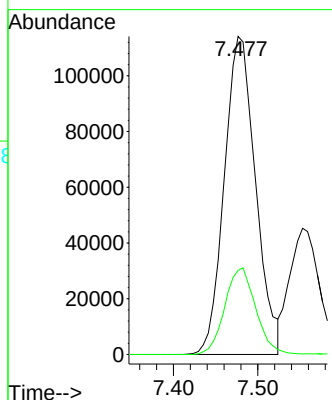
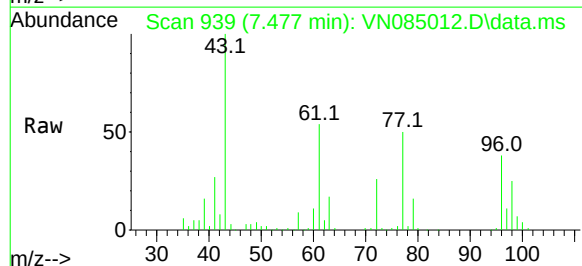
72 26.5 21.4 32.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#26

2,2-Dichloropropane

Concen: 46.349 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN085012.D

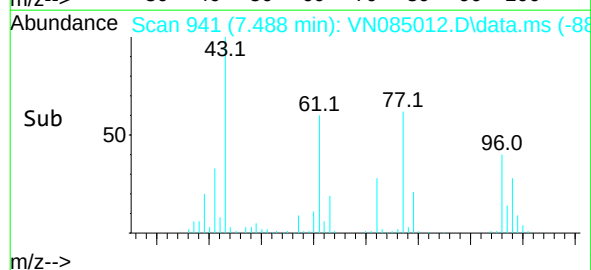
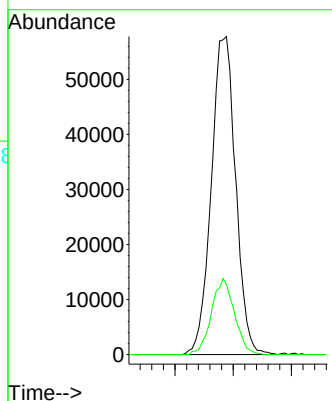
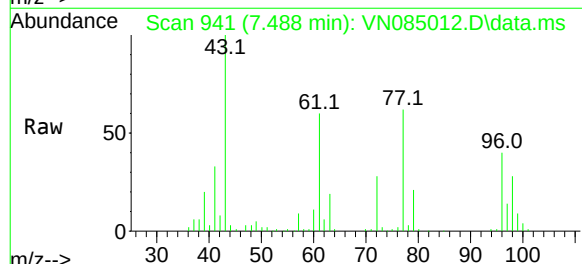
Acq: 22 Nov 2024 16:07

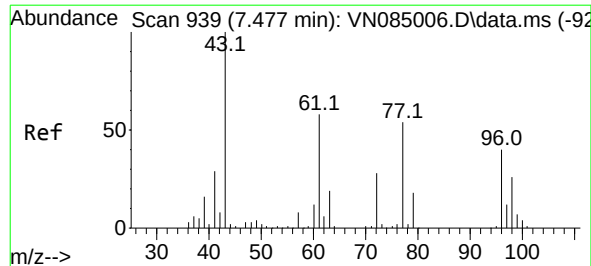
Tgt Ion: 77 Resp: 168144

Ion Ratio Lower Upper

77 100

97 22.5 10.9 32.7





#27

cis-1,2-Dichloroethene

Concen: 45.609 ug/l

RT: 7.477 min Scan# 939

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

ICNVN112224

Tgt Ion: 96 Resp: 110716

Ion Ratio Lower Upper

96 100

61 149.3 0.0 291.6

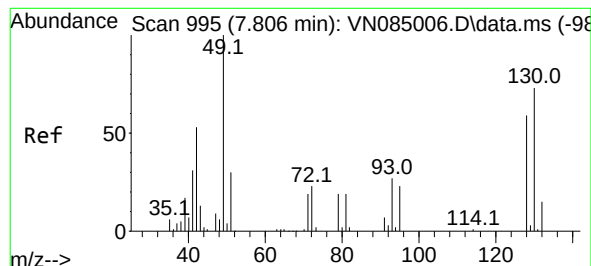
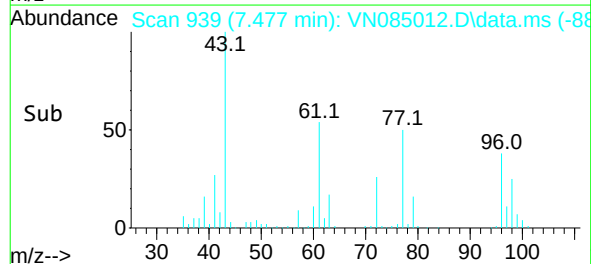
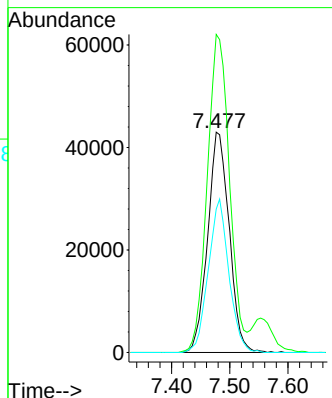
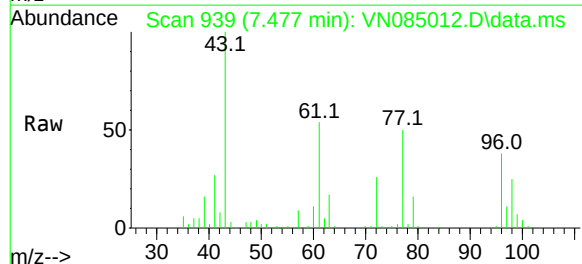
98 66.6 0.0 129.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#28

Bromochloromethane

Concen: 45.913 ug/l

RT: 7.812 min Scan# 996

Delta R.T. 0.006 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

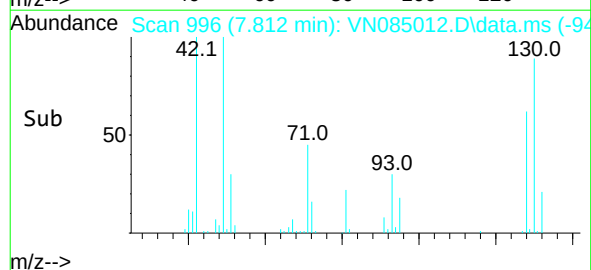
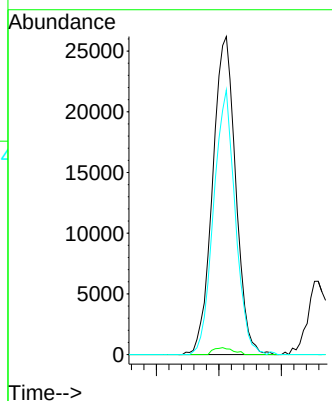
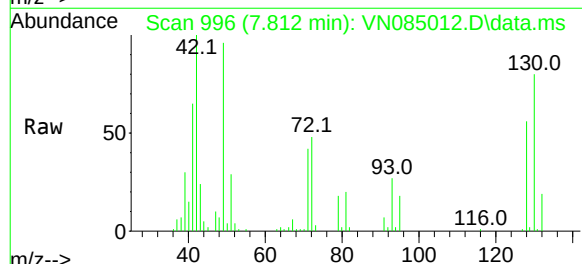
Tgt Ion: 49 Resp: 67335

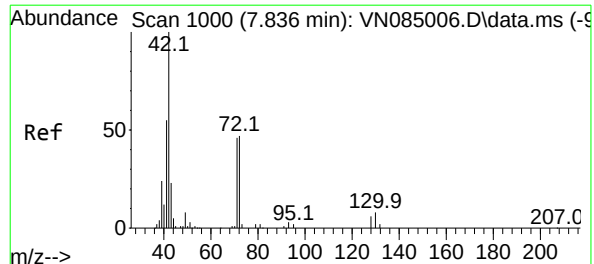
Ion Ratio Lower Upper

49 100

129 1.9 0.0 4.0

130 78.0 60.6 90.8





#29

Tetrahydrofuran

Concen: 241.241 ug/l

RT: 7.835 min Scan# 10

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

ICVN112224

Tgt Ion: 42 Resp: 183433

Ion Ratio Lower Upper

42 100

72 46.4 37.0 55.4

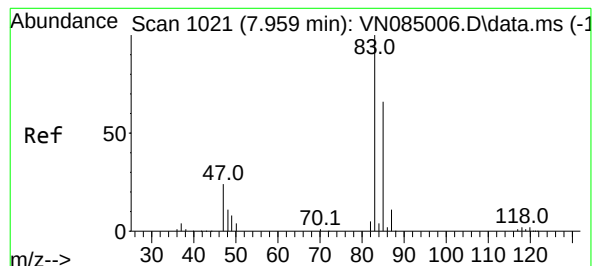
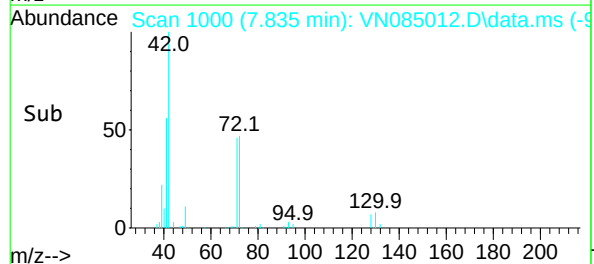
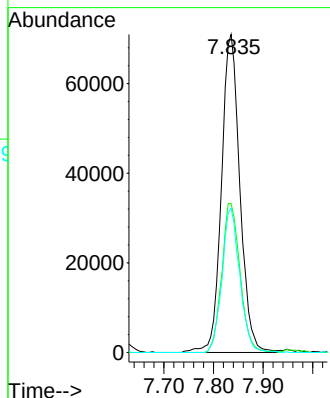
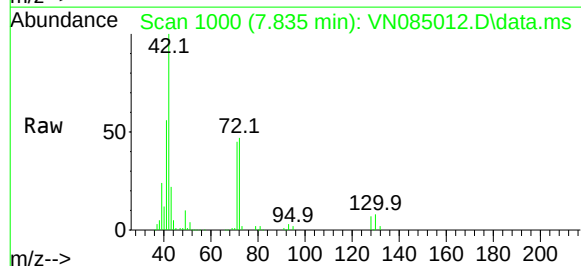
71 43.6 35.0 52.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#30

Chloroform

Concen: 45.623 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. -0.000 min

Lab File: VN085012.D

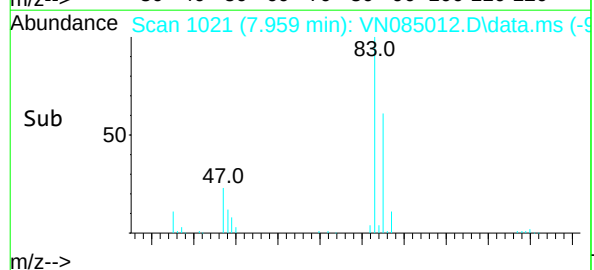
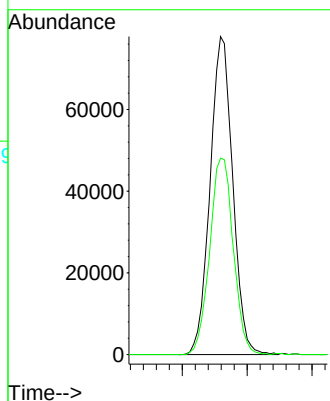
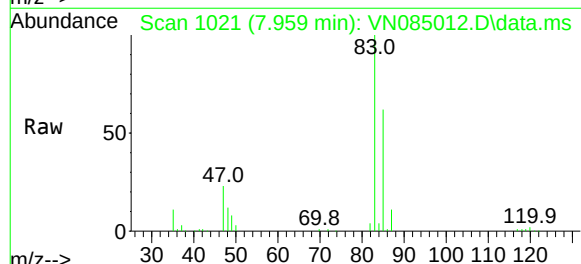
Acq: 22 Nov 2024 16:07

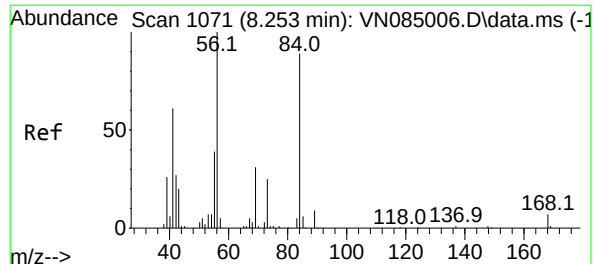
Tgt Ion: 83 Resp: 188550

Ion Ratio Lower Upper

83 100

85 61.8 52.6 78.8





#31

Cyclohexane

Concen: 46.084 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

ICNVN112224

Tgt Ion: 56 Resp: 157639

Ion Ratio Lower Upper

56 100

69 30.0 24.6 36.8

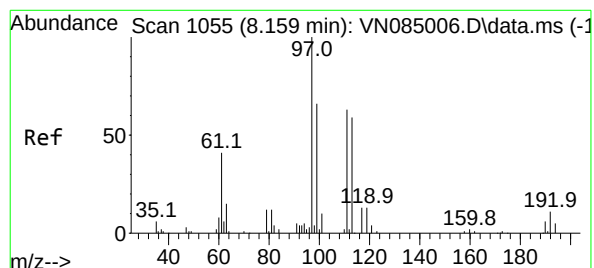
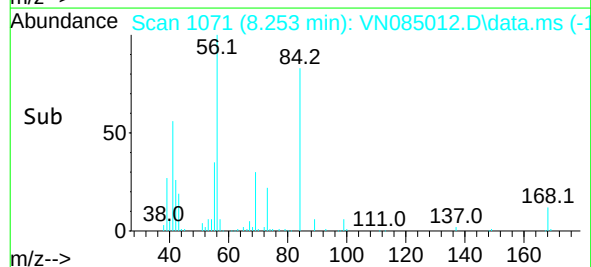
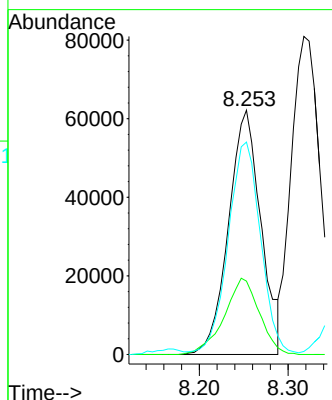
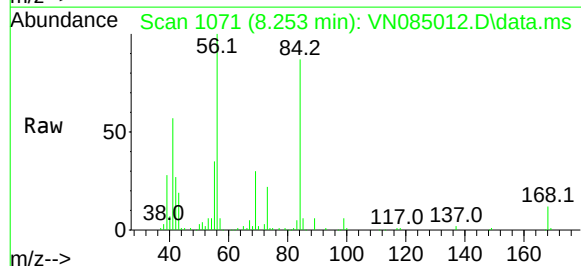
84 85.3 71.4 107.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#32

1,1,1-Trichloroethane

Concen: 45.714 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

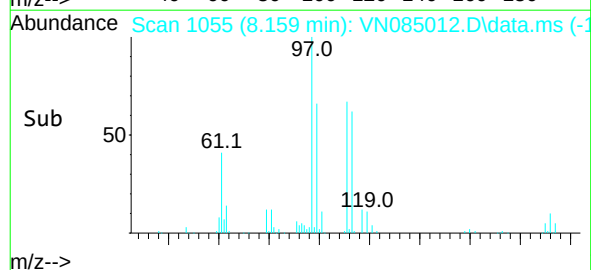
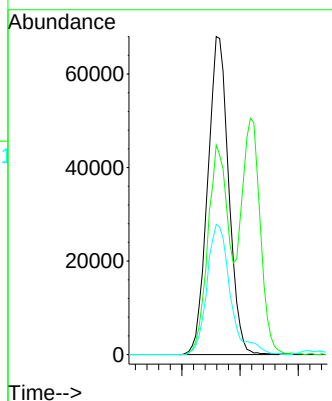
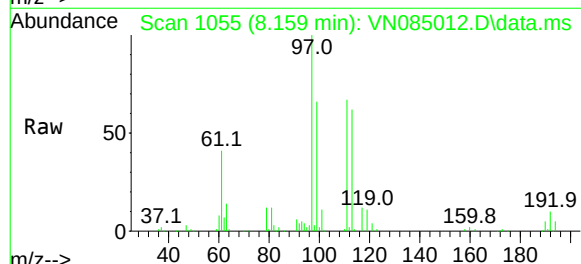
Tgt Ion: 97 Resp: 170723

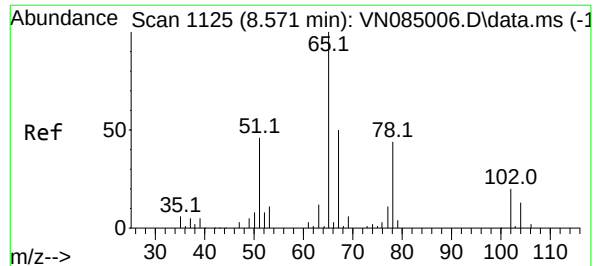
Ion Ratio Lower Upper

97 100

99 64.1 51.0 76.4

61 45.6 36.2 54.2





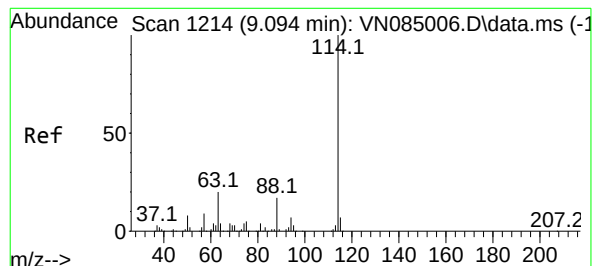
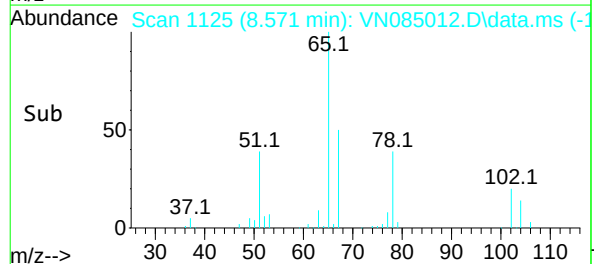
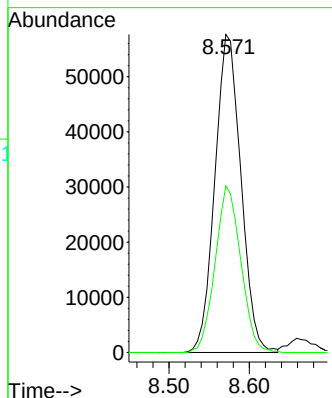
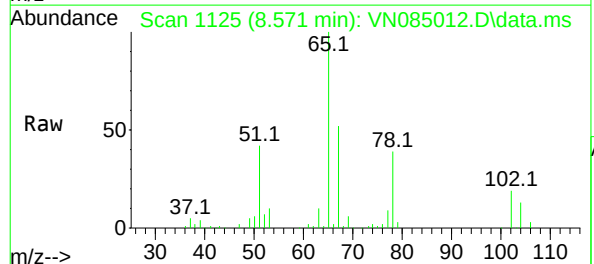
#33
1,2-Dichloroethane-d4
Concen: 50.568 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. -0.000 min
Lab File: VN085012.D
Acq: 22 Nov 2024 16:07

Instrument :
MSVOA_N
ClientSampleId :
ICNVN112224

Tgt Ion: 65 Resp: 129855
Ion Ratio Lower Upper
65 100
67 51.6 0.0 105.0

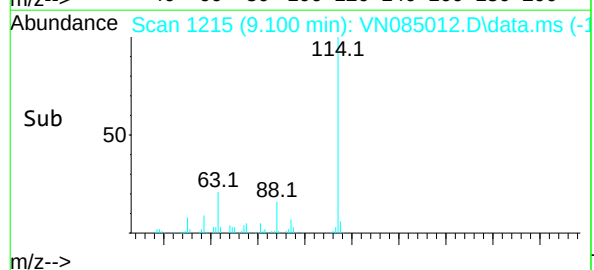
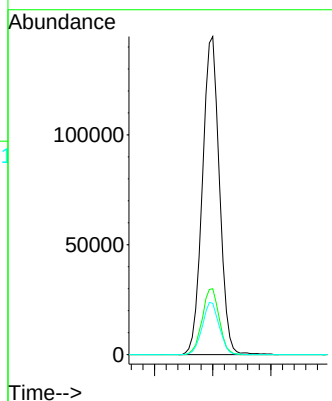
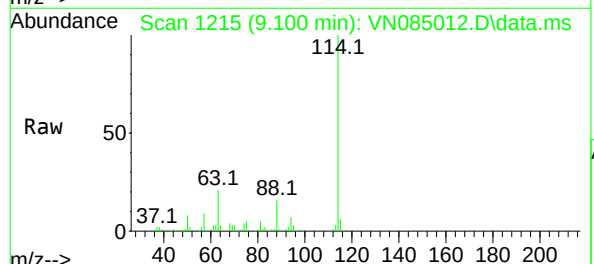
Manual Integrations
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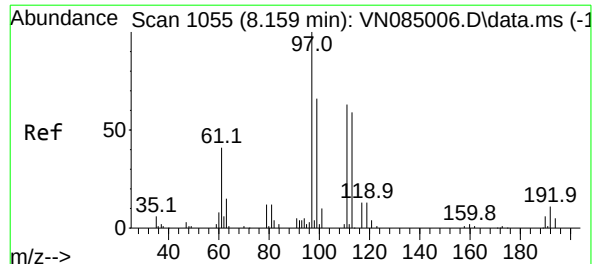
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085012.D
Acq: 22 Nov 2024 16:07

Tgt Ion:114 Resp: 293712
Ion Ratio Lower Upper
114 100
63 20.7 0.0 41.0
88 16.1 0.0 34.8





#35

Dibromofluoromethane

Concen: 51.572 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

ICNVN112224

Tgt Ion:113 Resp: 102148

Ion Ratio Lower Upper

113 100

111 105.3 82.0 123.0

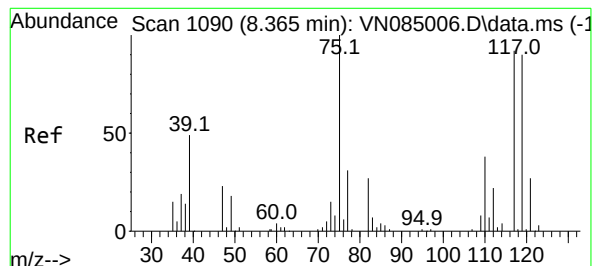
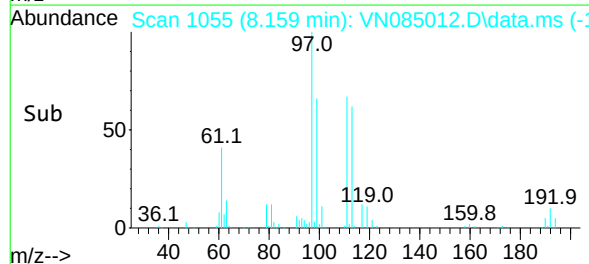
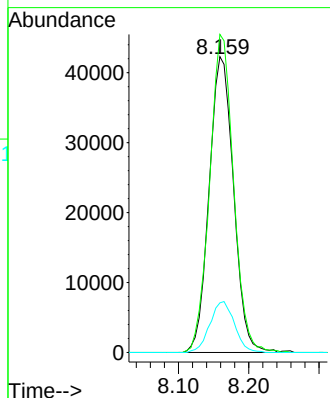
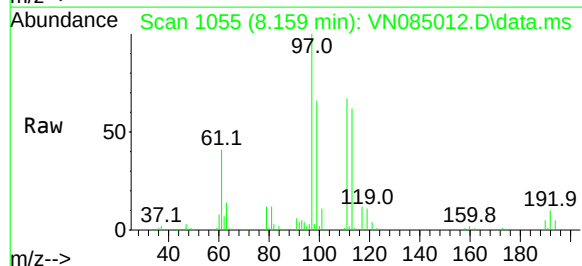
192 17.4 14.8 22.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#36

1,1-Dichloropropene

Concen: 48.093 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

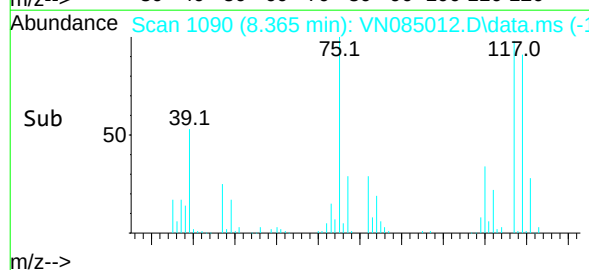
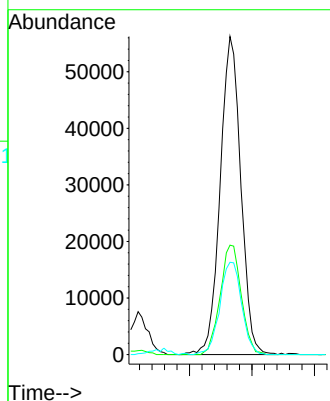
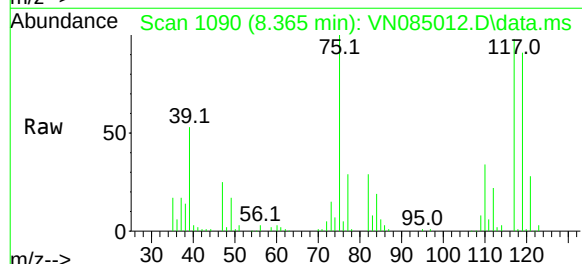
Tgt Ion: 75 Resp: 129026

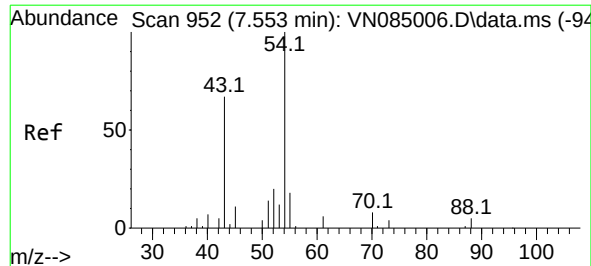
Ion Ratio Lower Upper

75 100

110 35.2 17.2 51.6

77 30.7 24.2 36.4





#37

Ethyl Acetate

Concen: 46.651 ug/l

RT: 7.553 min Scan# 95

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

ICNVN112224

Tgt Ion: 43 Resp: 113781

Ion Ratio Lower Upper

43 100

61 14.9 11.7 17.5

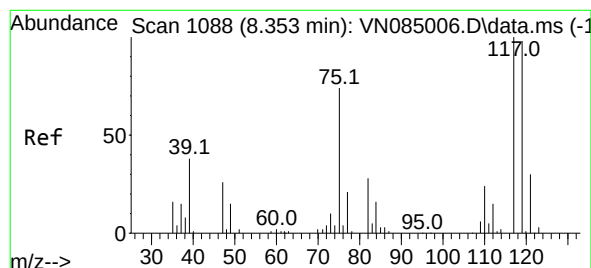
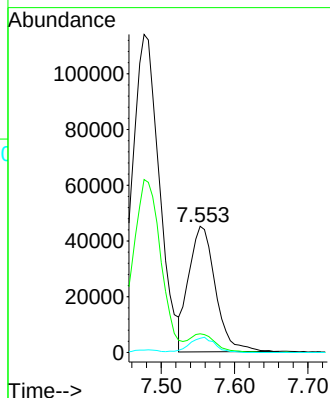
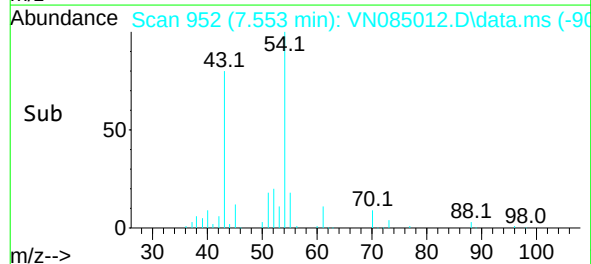
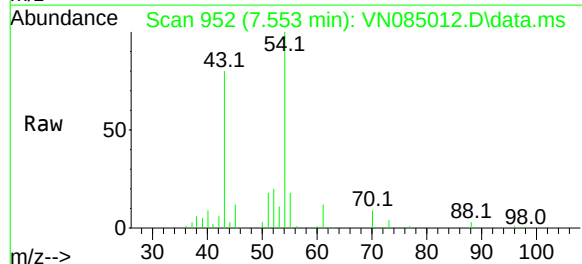
70 11.5 9.3 13.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#38

Carbon Tetrachloride

Concen: 48.846 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.006 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

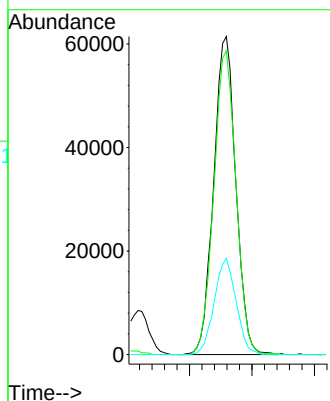
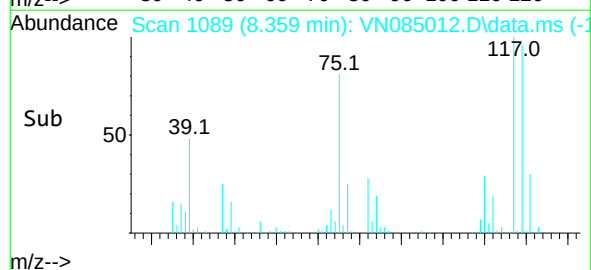
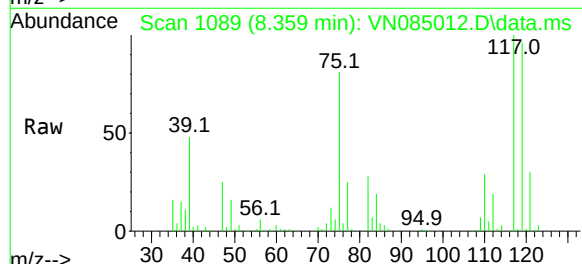
Tgt Ion:117 Resp: 151265

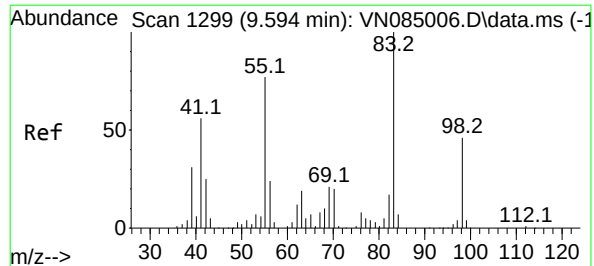
Ion Ratio Lower Upper

117 100

119 95.5 78.6 117.8

121 30.3 24.2 36.2





#39

Methylcyclohexane

Concen: 52.114 ug/l

RT: 9.594 min Scan# 1299

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

ICVVN112224

Tgt Ion: 83 Resp: 145286

Ion Ratio Lower Upper

83 100

55 79.2 61.8 92.6

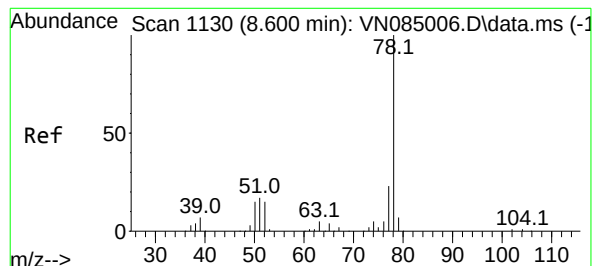
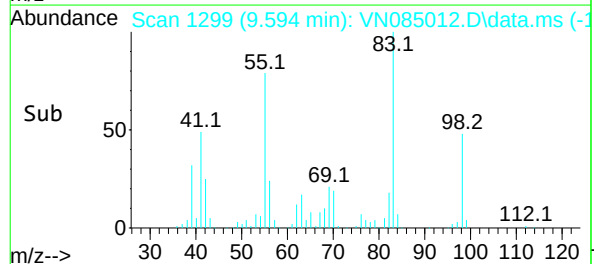
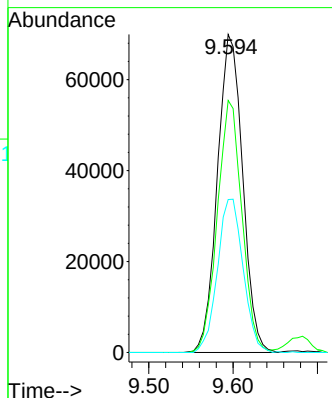
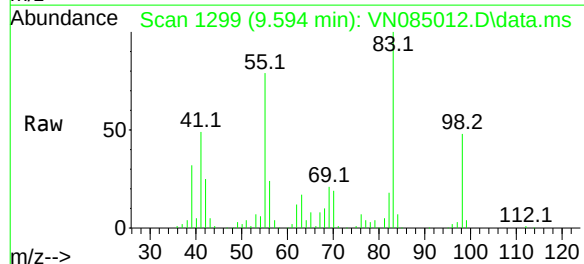
98 48.1 37.0 55.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#40

Benzene

Concen: 47.675 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN085012.D

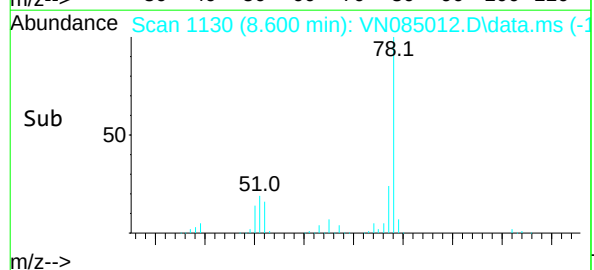
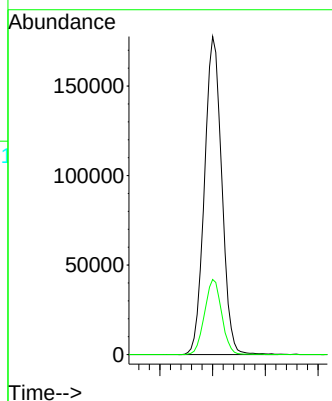
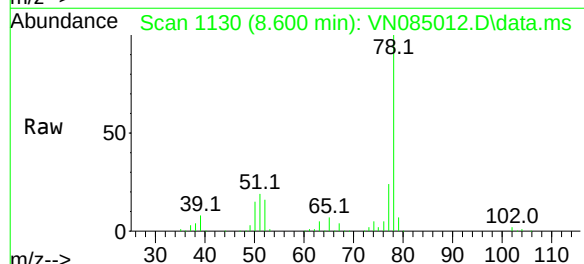
Acq: 22 Nov 2024 16:07

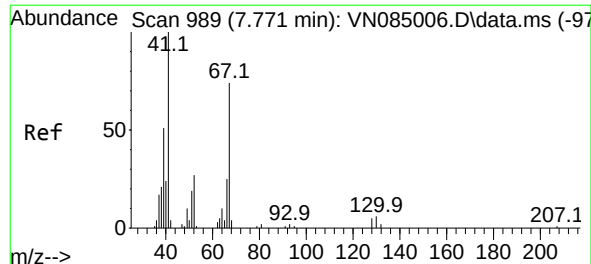
Tgt Ion: 78 Resp: 404536

Ion Ratio Lower Upper

78 100

77 23.6 18.5 27.7





#41

Methacrylonitrile

Concen: 49.311 ug/l

RT: 7.771 min Scan# 989

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

ICNVN112224

Tgt Ion: 41 Resp: 66590

Ion Ratio Lower Upper

41 100

39 56.6 42.6 63.8

67 75.5 59.9 89.9

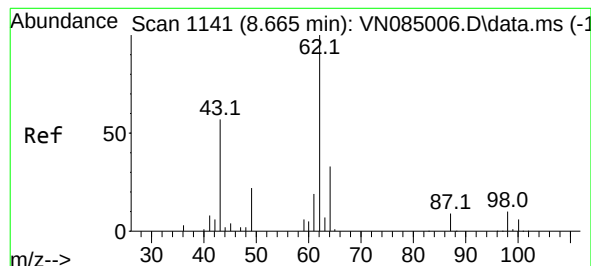
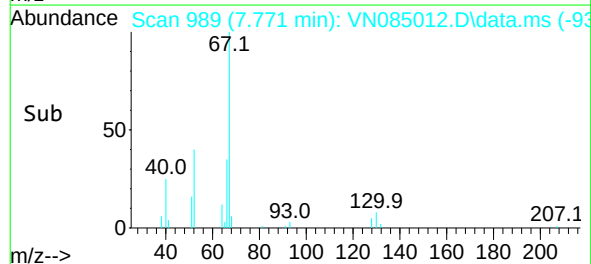
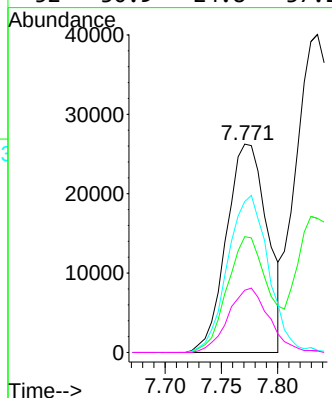
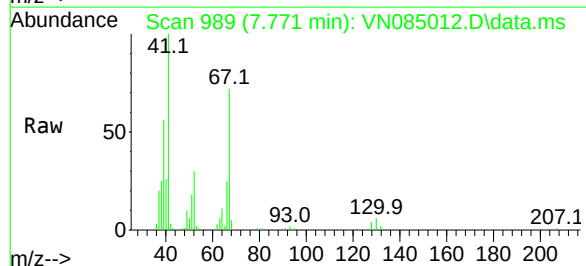
52 30.9 24.8 37.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#42

1,2-Dichloroethane

Concen: 47.025 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.000 min

Lab File: VN085012.D

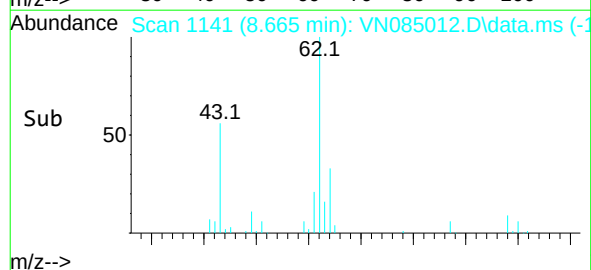
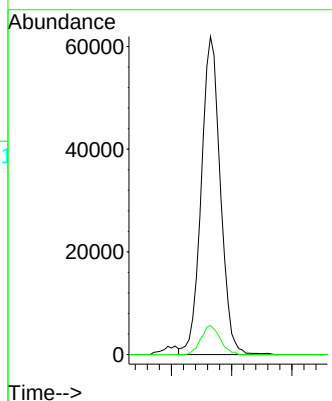
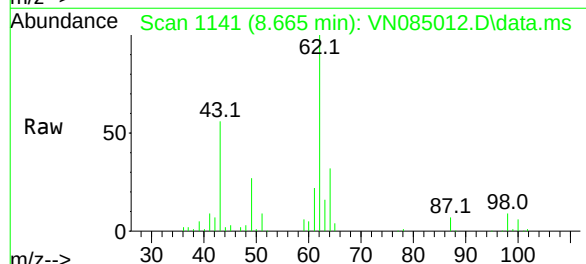
Acq: 22 Nov 2024 16:07

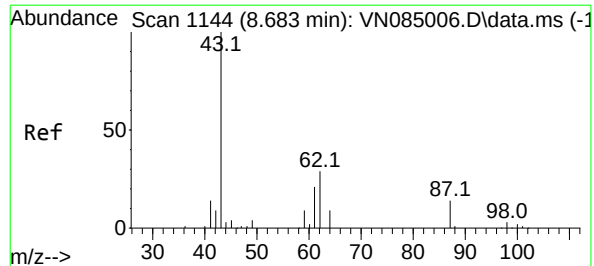
Tgt Ion: 62 Resp: 136508

Ion Ratio Lower Upper

62 100

98 9.1 0.0 18.2





#43

Isopropyl Acetate

Concen: 41.574 ug/l

RT: 8.688 min Scan# 1144

Delta R.T. 0.006 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

ICNVN112224

Tgt Ion: 43 Resp: 210623

Ion Ratio Lower Upper

43 100

61 26.7 20.6 30.8

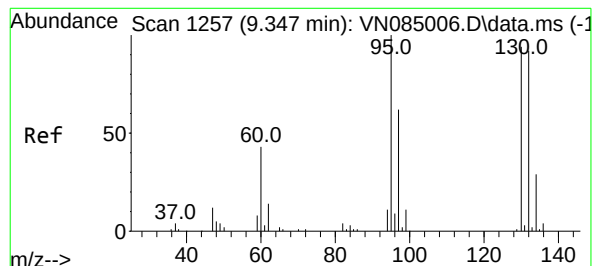
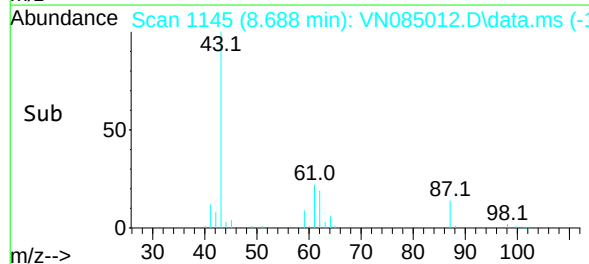
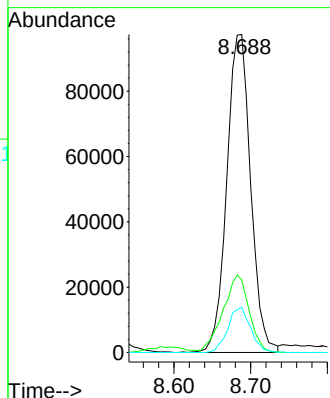
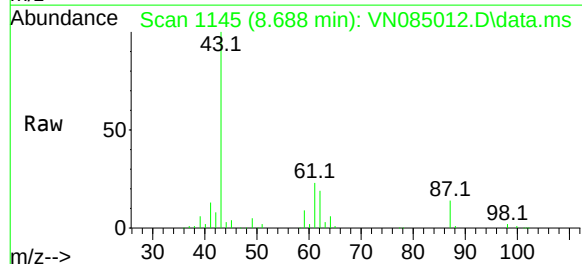
87 13.5 11.0 16.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#44

Trichloroethene

Concen: 47.205 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. -0.000 min

Lab File: VN085012.D

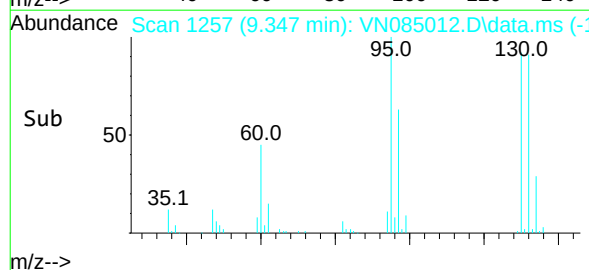
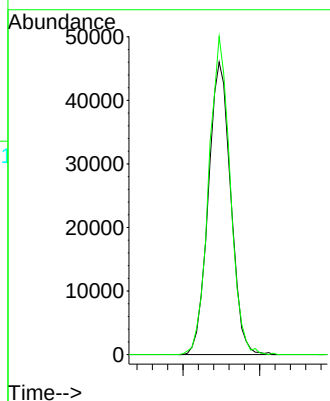
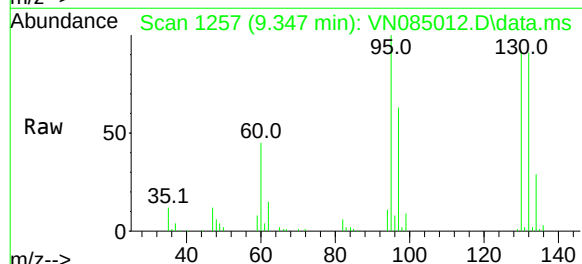
Acq: 22 Nov 2024 16:07

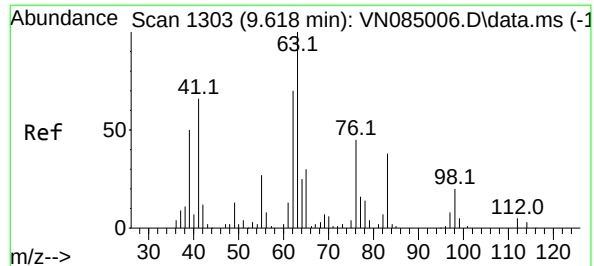
Tgt Ion:130 Resp: 93086

Ion Ratio Lower Upper

130 100

95 108.7 0.0 213.4





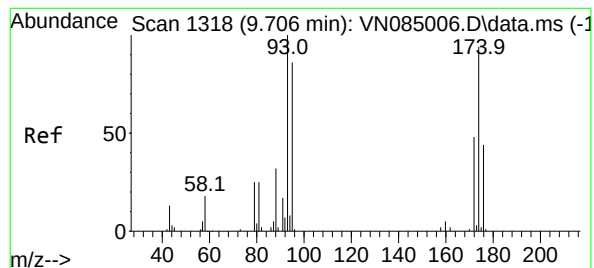
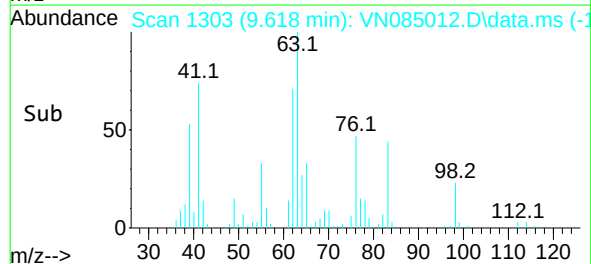
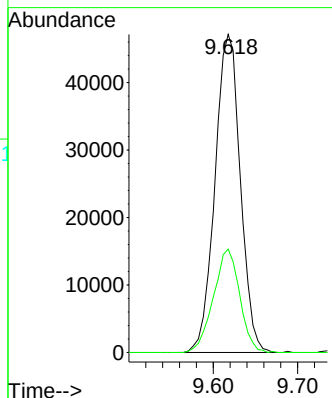
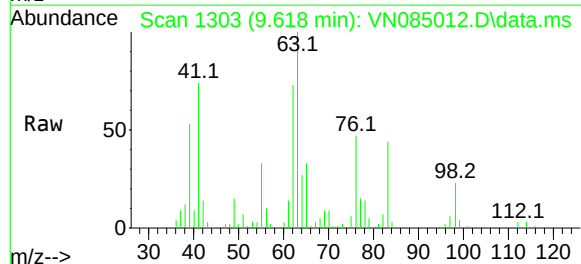
#45
1,2-Dichloropropane
Concen: 47.073 ug/l
RT: 9.618 min Scan# 1303
Delta R.T. -0.000 min
Lab File: VN085012.D
Acq: 22 Nov 2024 16:07

Instrument :
MSVOA_N
ClientSampleId :
ICVNV112224

Tgt Ion: 63 Resp: 98380
Ion Ratio Lower Upper
63 100
65 32.5 24.0 36.0

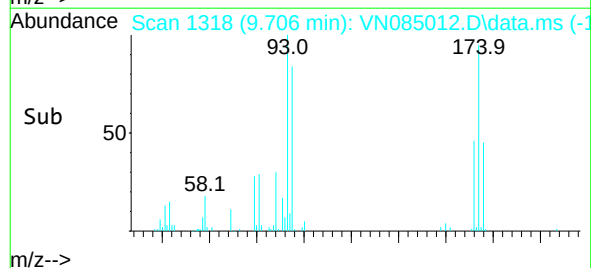
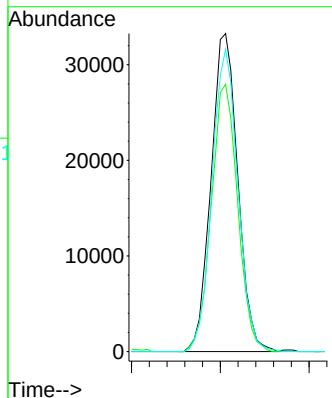
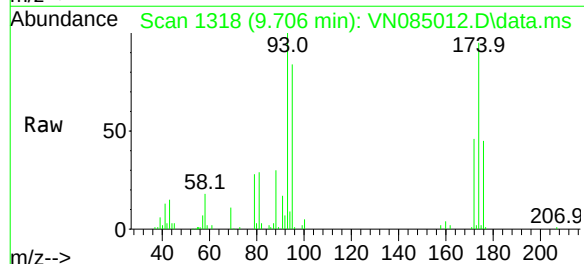
Manual Integrations
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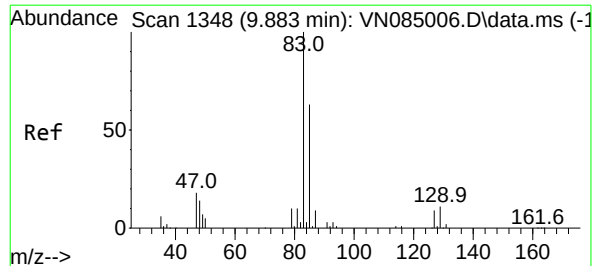
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#46
Dibromomethane
Concen: 47.909 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.000 min
Lab File: VN085012.D
Acq: 22 Nov 2024 16:07

Tgt Ion: 93 Resp: 69575
Ion Ratio Lower Upper
93 100
95 82.9 66.2 99.4
174 91.9 74.9 112.3





#47

Bromodichloromethane

Concen: 47.631 ug/l

RT: 9.882 min Scan# 13

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

ICNVN112224

Tgt Ion: 83 Resp: 146603

Ion Ratio Lower Upper

83 100

85 66.2 50.5 75.7

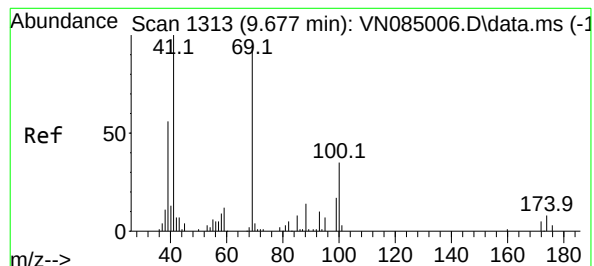
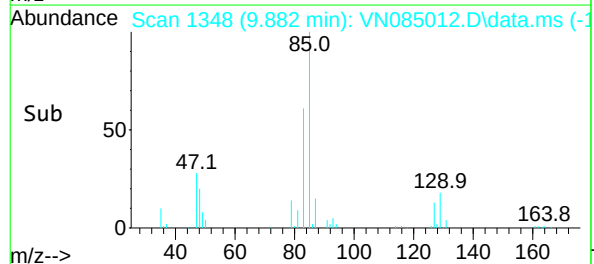
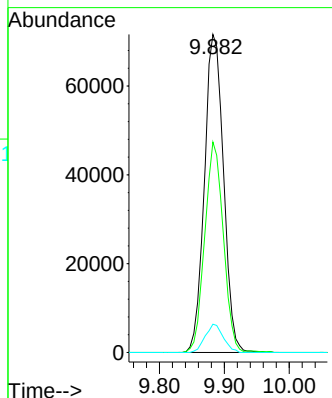
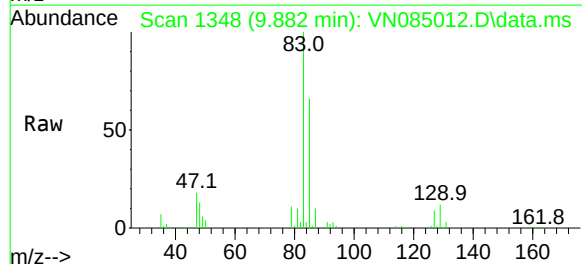
127 8.9 7.1 10.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#48

Methyl methacrylate

Concen: 50.900 ug/l

RT: 9.676 min Scan# 1313

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

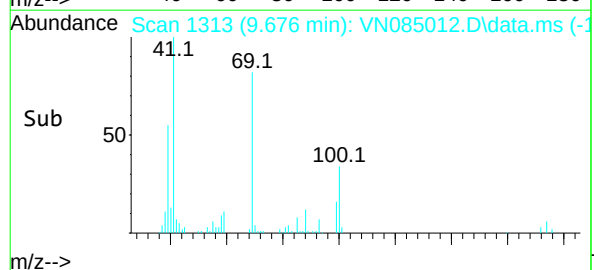
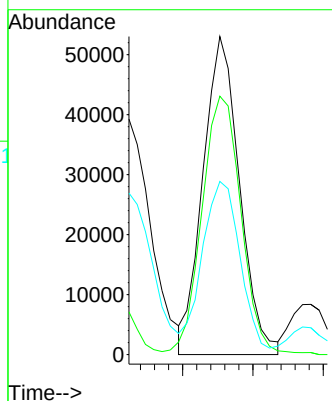
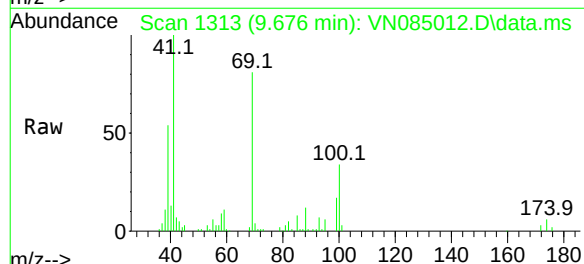
Tgt Ion: 41 Resp: 95959

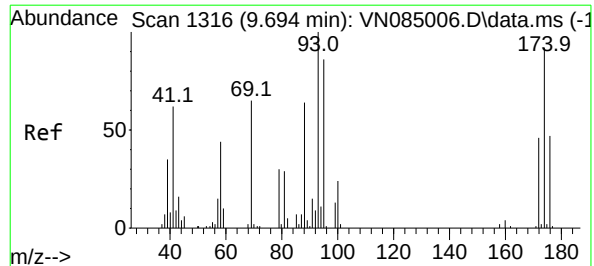
Ion Ratio Lower Upper

41 100

69 86.9 73.2 109.8

39 57.0 46.2 69.4





#49

1,4-Dioxane

Concen: 950.585 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VN085012.D

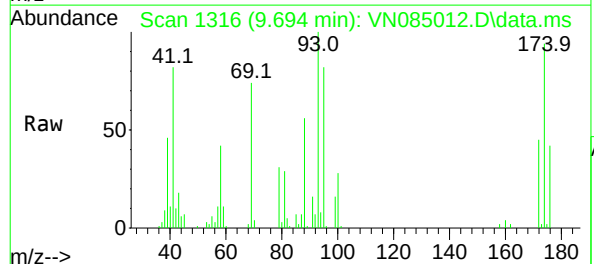
Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

ICVNV112224



Tgt Ion: 88 Resp: 31078

Ion Ratio Lower Upper

88 100

43 0.0 16.7 25.1

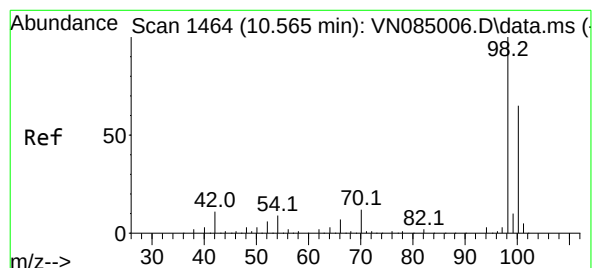
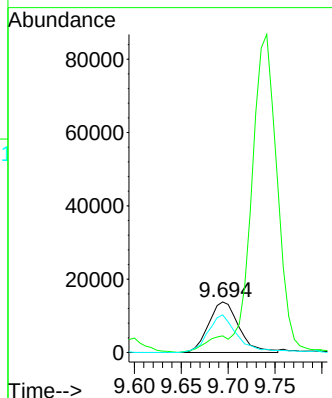
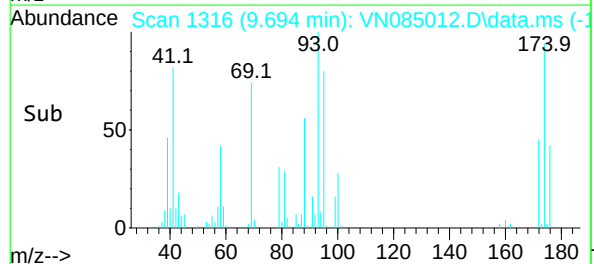
58 73.0 56.5 84.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#50

Toluene-d8

Concen: 53.488 ug/l

RT: 10.559 min Scan# 1463

Delta R.T. -0.006 min

Lab File: VN085012.D

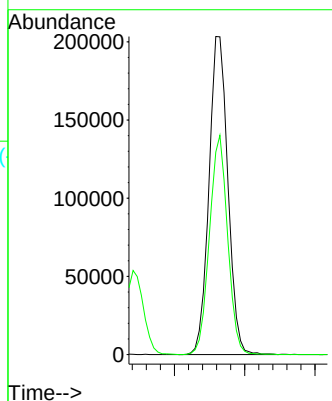
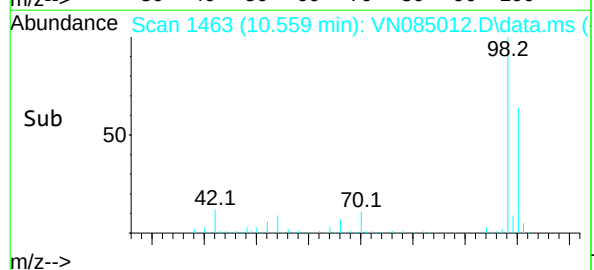
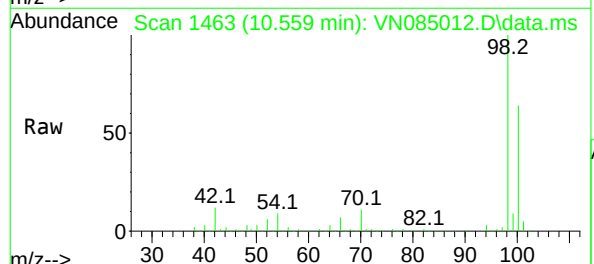
Acq: 22 Nov 2024 16:07

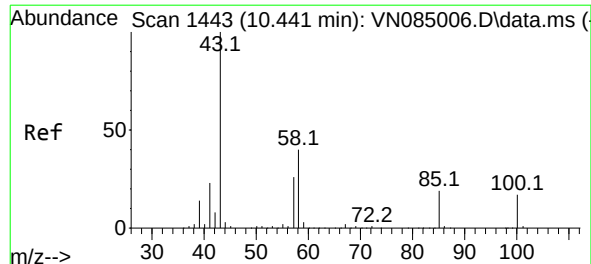
Tgt Ion: 98 Resp: 379679

Ion Ratio Lower Upper

98 100

100 66.2 52.5 78.7





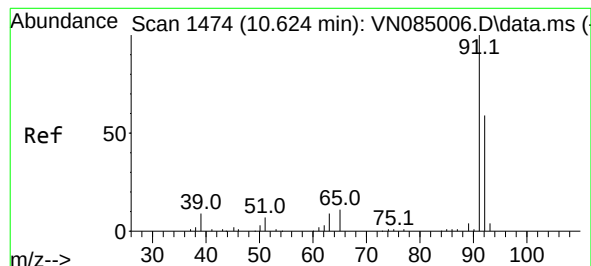
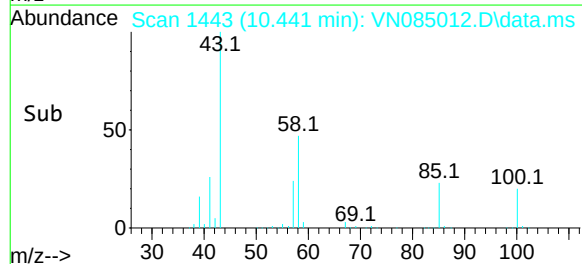
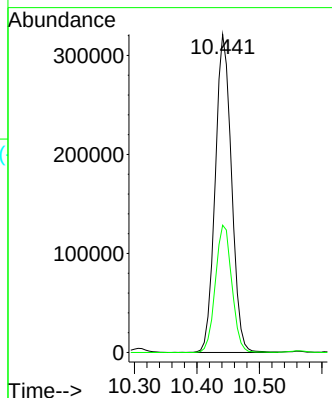
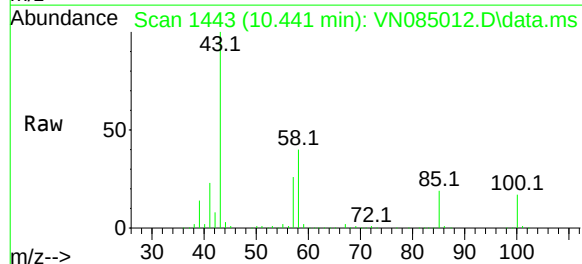
#51
4-Methyl-2-Pentanone
Concen: 251.720 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085012.D
Acq: 22 Nov 2024 16:07

Instrument :
MSVOA_N
ClientSampleId :
ICV112224

Tgt Ion: 43 Resp: 582480
Ion Ratio Lower Upper
43 100
58 40.4 32.1 48.1

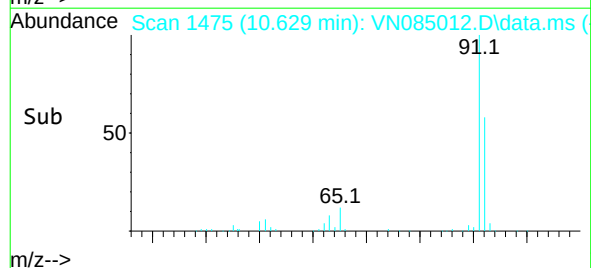
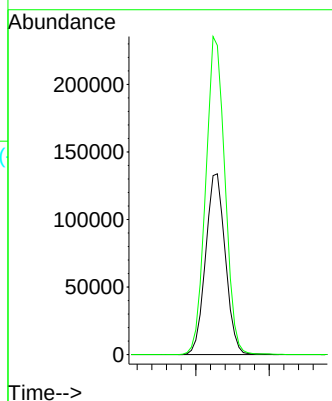
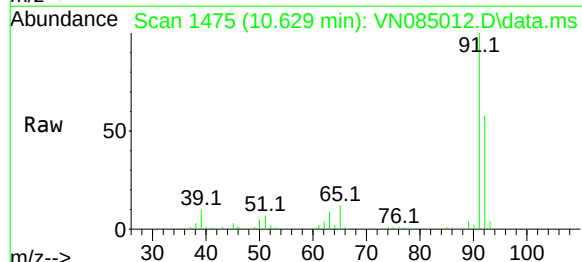
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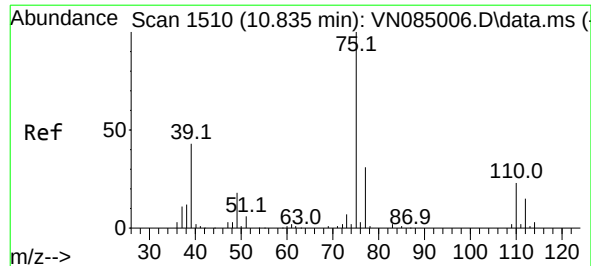
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#52
Toluene
Concen: 49.682 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN085012.D
Acq: 22 Nov 2024 16:07

Tgt Ion: 92 Resp: 249568
Ion Ratio Lower Upper
92 100
91 171.9 136.7 205.1





#53

t-1,3-Dichloropropene

Concen: 48.881 ug/l

RT: 10.829 min Scan# 1510

Delta R.T. -0.006 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

ICNVN112224

Tgt Ion: 75 Resp: 150836

Ion Ratio Lower Upper

75 100

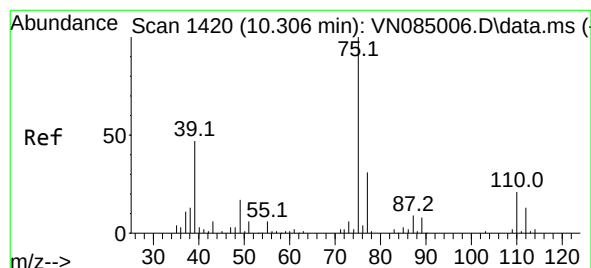
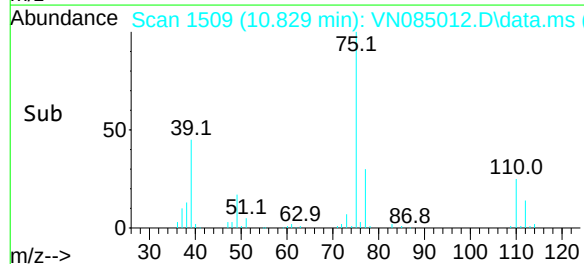
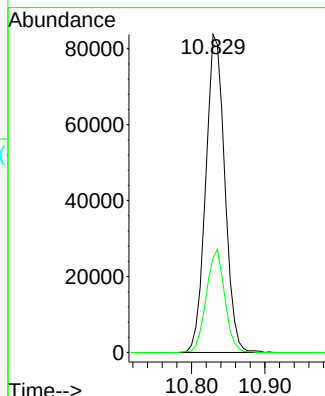
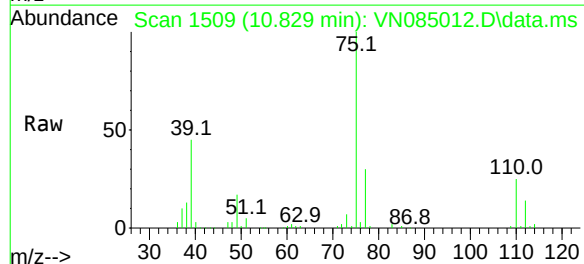
77 29.7 25.0 37.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#54

cis-1,3-Dichloropropene

Concen: 50.100 ug/l

RT: 10.306 min Scan# 1420

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

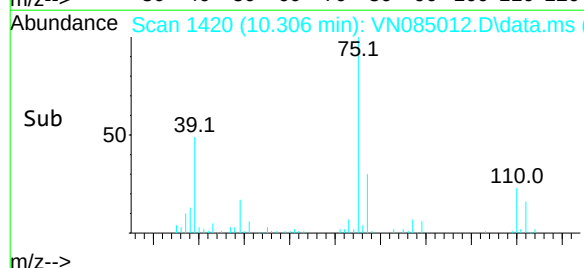
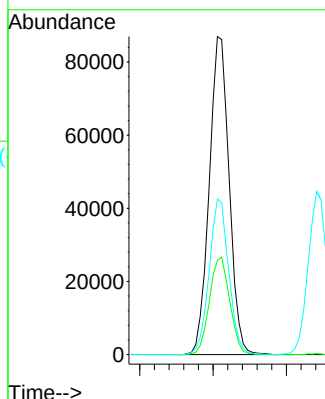
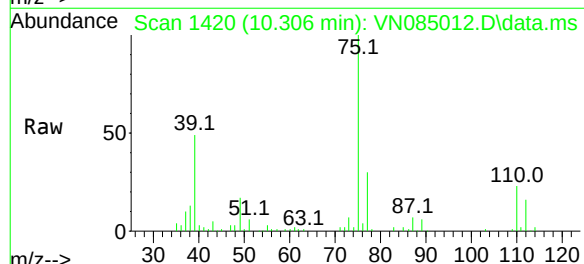
Tgt Ion: 75 Resp: 164009

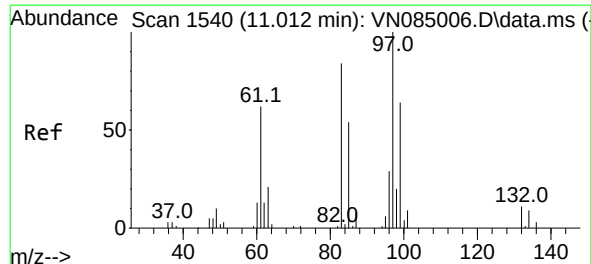
Ion Ratio Lower Upper

75 100

77 29.6 25.0 37.4

39 48.9 37.6 56.4





#55

1,1,2-Trichloroethane

Concen: 49.287 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

ICVN112224

Tgt Ion: 97 Resp: 92219

Ion Ratio Lower Upper

97 100

83 83.5 67.4 101.2

85 53.8 43.1 64.7

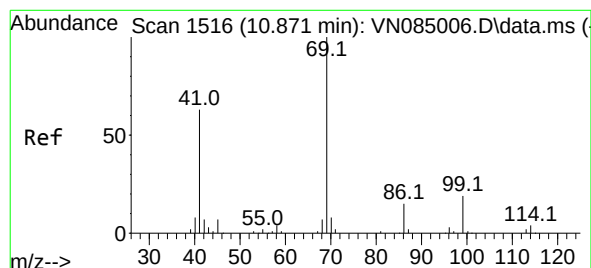
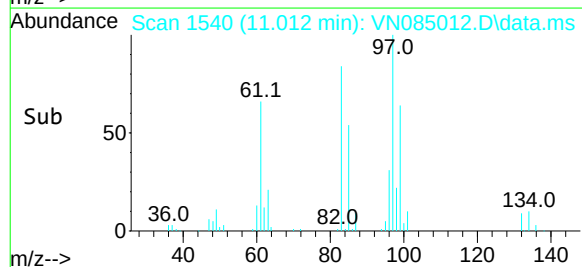
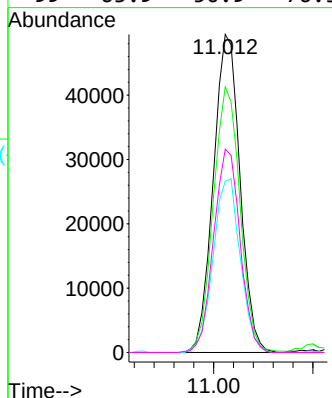
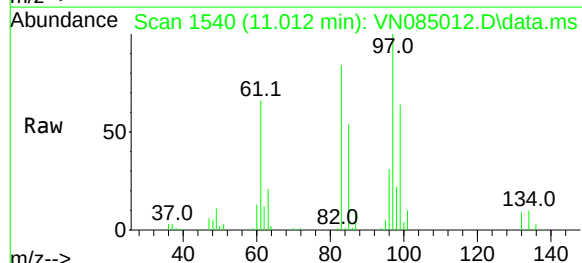
99 63.9 50.9 76.3

Manual Integrations

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Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#56

Ethyl methacrylate

Concen: 54.694 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

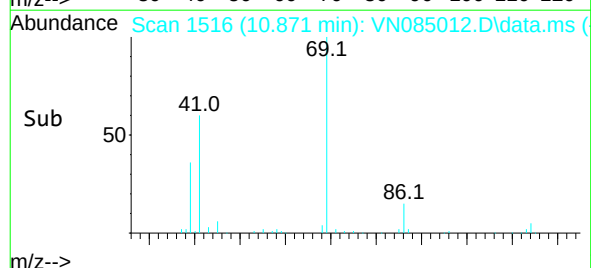
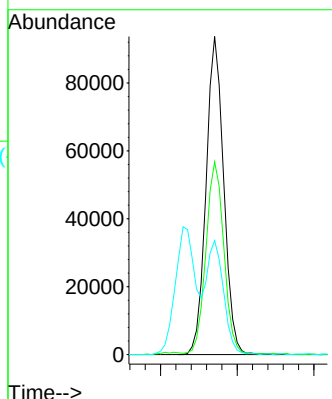
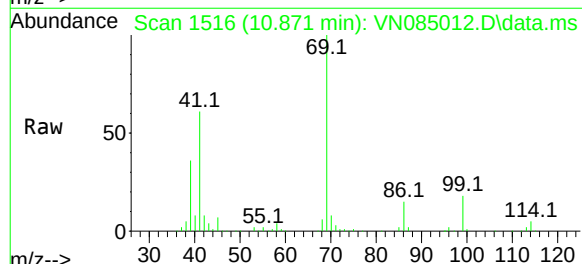
Tgt Ion: 69 Resp: 149537

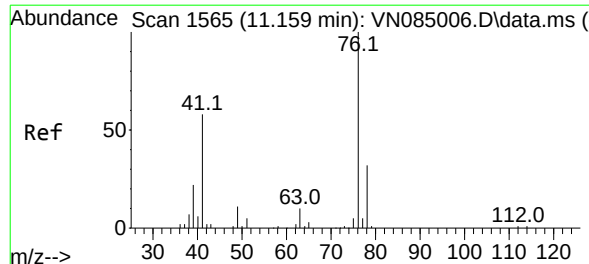
Ion Ratio Lower Upper

69 100

41 61.1 50.0 75.0

39 34.6 27.0 40.6





#57

1,3-Dichloropropane

Concen: 47.980 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

ICNVN112224

Tgt Ion: 76 Resp: 158000

Ion Ratio Lower Upper

76 100

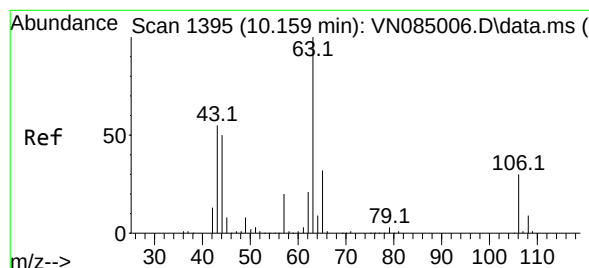
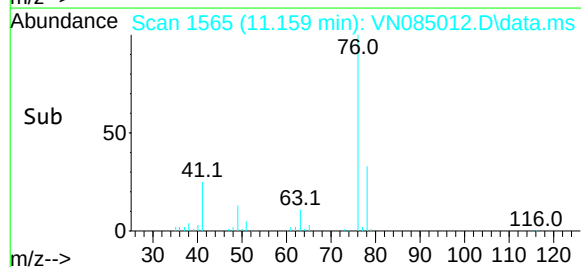
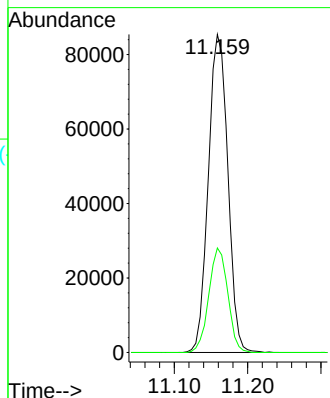
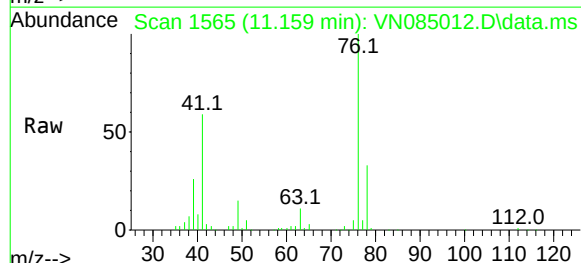
78 32.0 26.1 39.1

Manual Integrations

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Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#58

2-Chloroethyl Vinyl ether

Concen: 235.323 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN085012.D

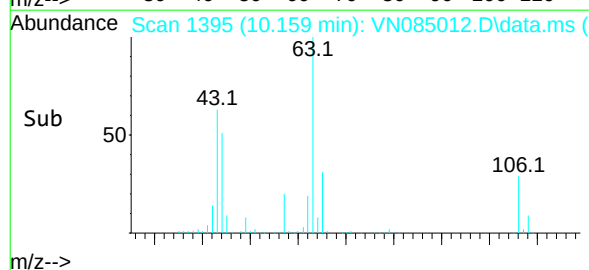
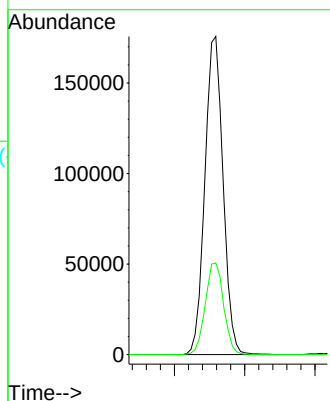
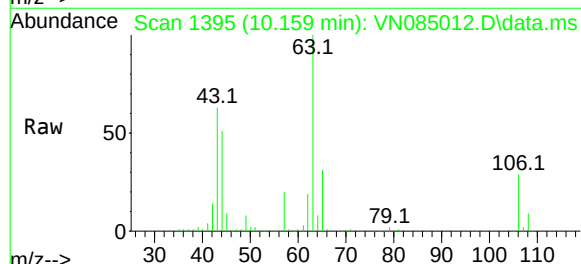
Acq: 22 Nov 2024 16:07

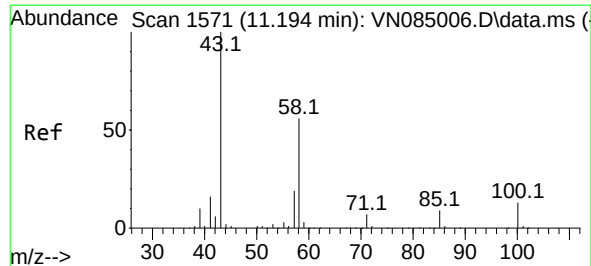
Tgt Ion: 63 Resp: 315602

Ion Ratio Lower Upper

63 100

106 29.1 23.0 34.6





#59

2-Hexanone

Concen: 256.983 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

ICNVN112224

Tgt Ion: 43 Resp: 444749

Ion Ratio Lower Upper

43 100

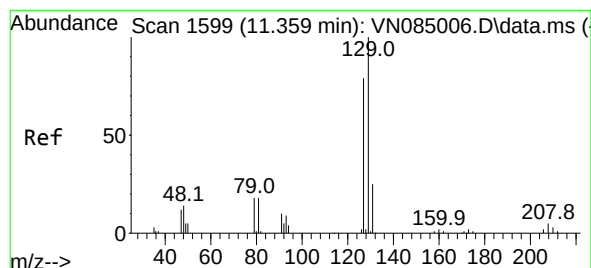
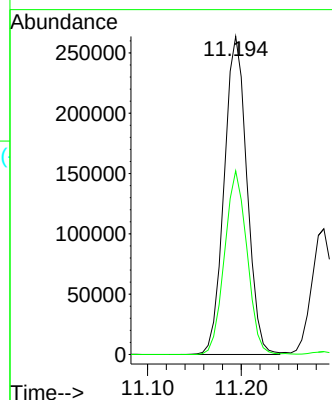
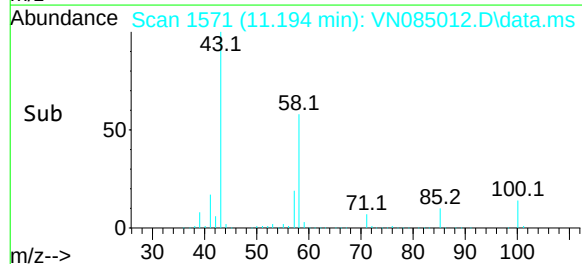
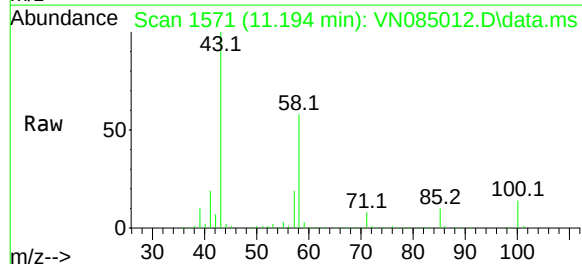
58 56.9 28.3 85.0

Manual Integrations

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Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#60

Dibromochloromethane

Concen: 47.650 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. -0.000 min

Lab File: VN085012.D

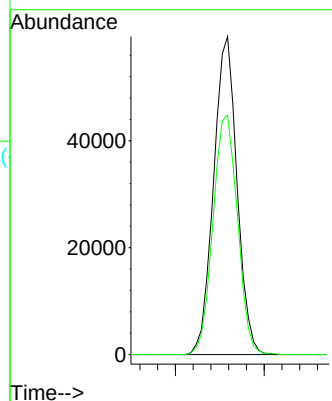
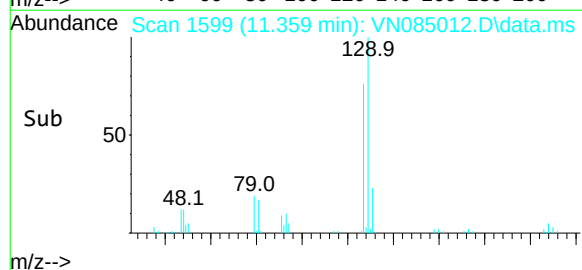
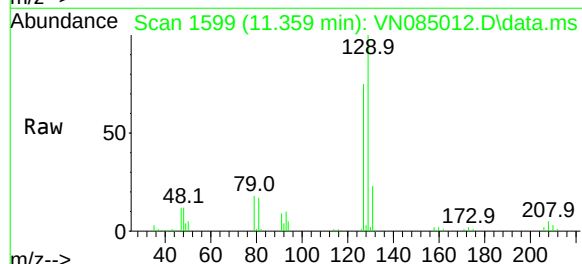
Acq: 22 Nov 2024 16:07

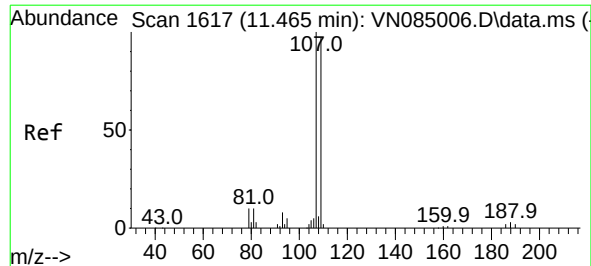
Tgt Ion:129 Resp: 108961

Ion Ratio Lower Upper

129 100

127 79.0 39.2 117.6





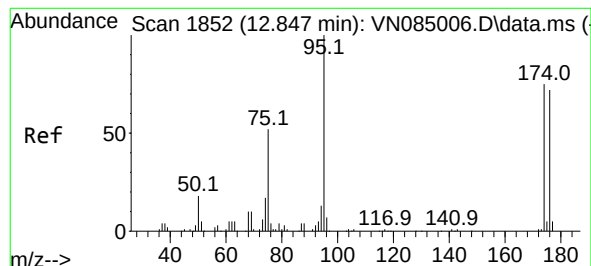
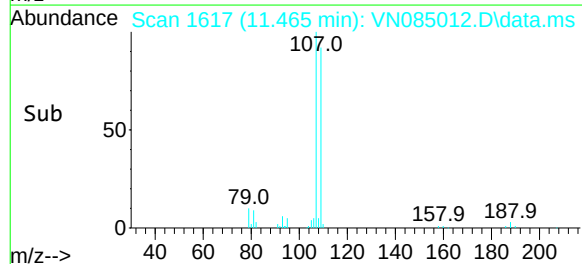
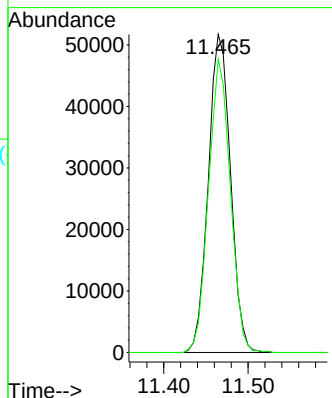
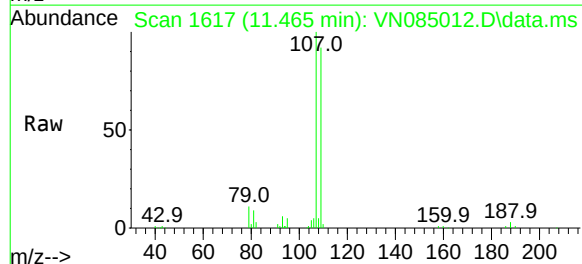
#61
1,2-Dibromoethane
Concen: 48.883 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085012.D
Acq: 22 Nov 2024 16:07

Instrument :
MSVOA_N
ClientSampleId :
ICNVN112224

Tgt Ion: 107 Resp: 94657
Ion Ratio Lower Upper
107 100
109 90.8 76.1 114.1

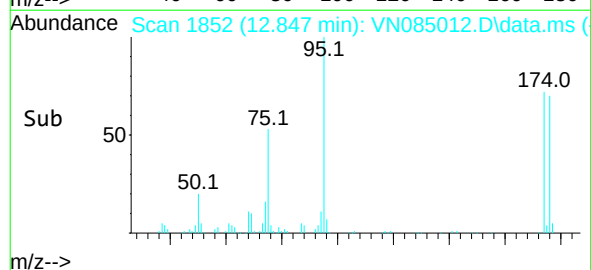
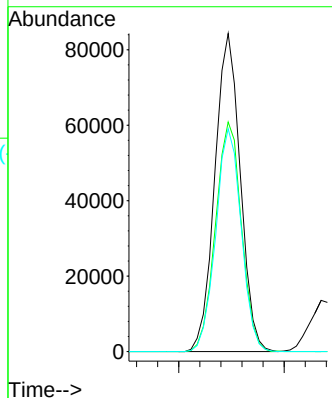
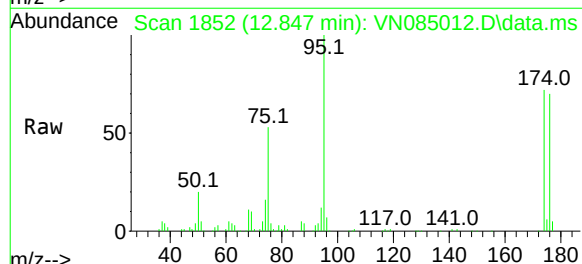
Manual Integrations
APPROVED

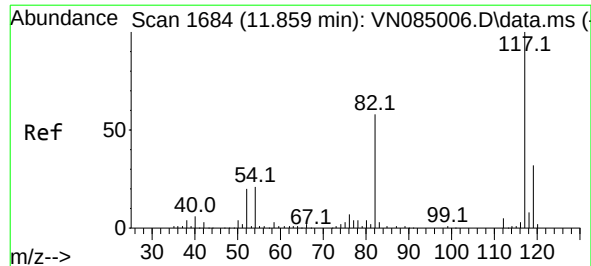
Reviewed By : John Carlone 11/25/2024
Supervised By : Mahesh Dadoda 11/25/2024



#62
4-Bromofluorobenzene
Concen: 53.276 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085012.D
Acq: 22 Nov 2024 16:07

Tgt Ion: 95 Resp: 141423
Ion Ratio Lower Upper
95 100
174 73.4 0.0 146.6
176 69.8 0.0 141.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1684

Delta R.T. 0.006 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

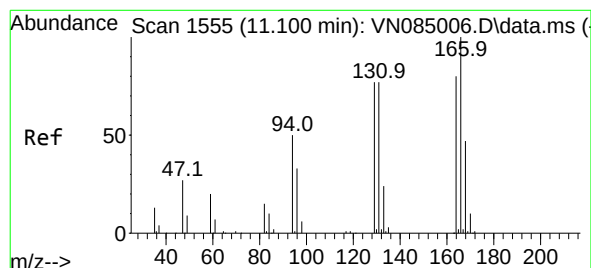
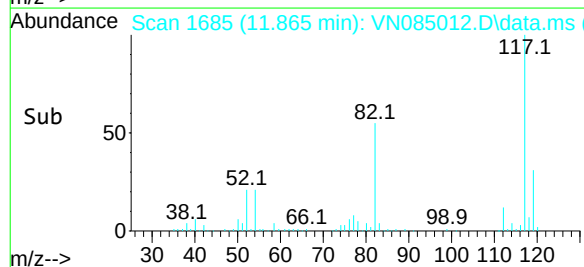
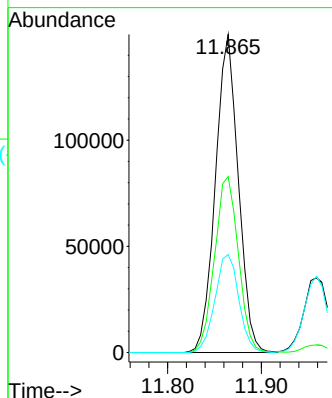
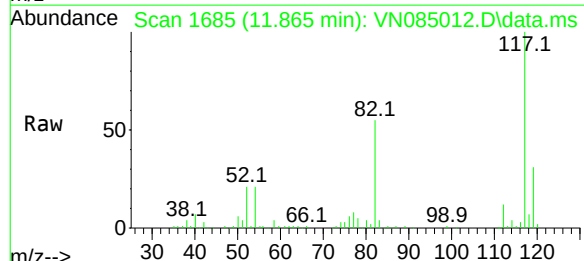
ICNVN112224

Tgt Ion:	117	Resp:	254182
Ion	Ratio	Lower	Upper
117	100		
82	55.3	46.0	69.0
119	30.8	25.6	38.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#64

Tetrachloroethene

Concen: 48.316 ug/l

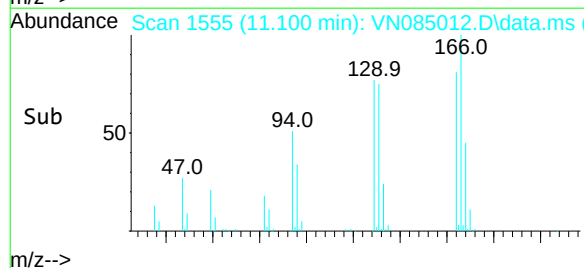
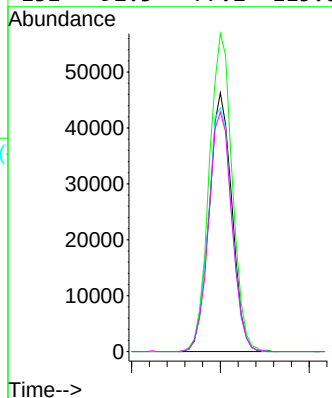
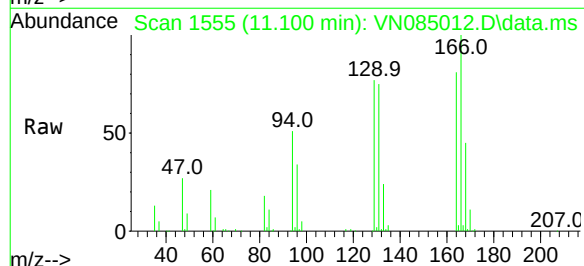
RT: 11.100 min Scan# 1555

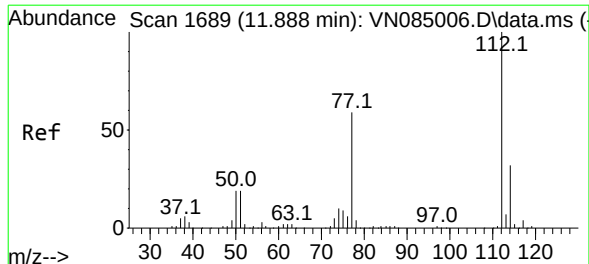
Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Tgt Ion:	164	Resp:	82753
Ion	Ratio	Lower	Upper
164	100		
166	122.9	100.6	151.0
129	94.2	77.7	116.5
131	92.5	77.2	115.8





#65

Chlorobenzene

Concen: 45.936 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

ICNVN112224

Tgt Ion:112 Resp: 264798

Ion Ratio Lower Upper

112 100

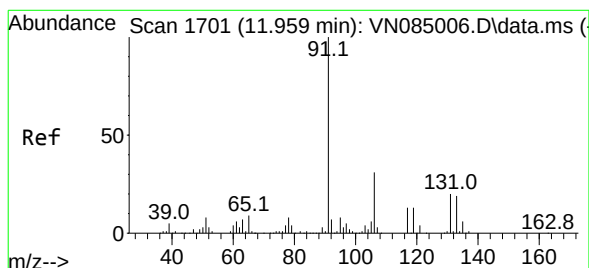
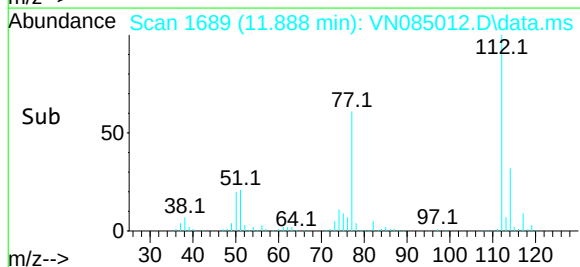
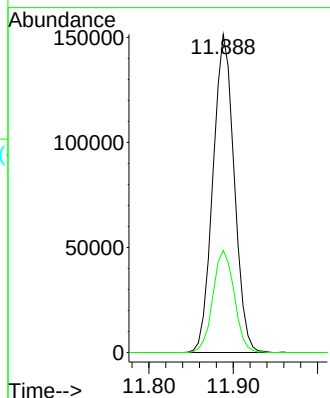
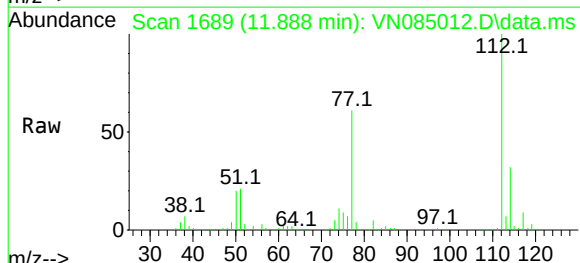
114 32.1 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#66

1,1,1,2-Tetrachloroethane

Concen: 46.991 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

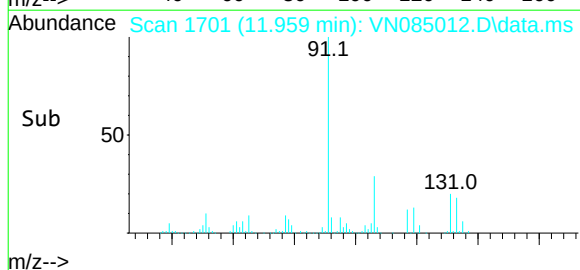
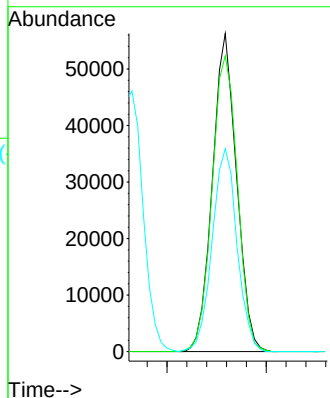
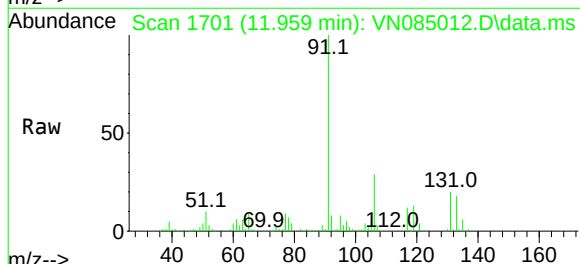
Tgt Ion:131 Resp: 95374

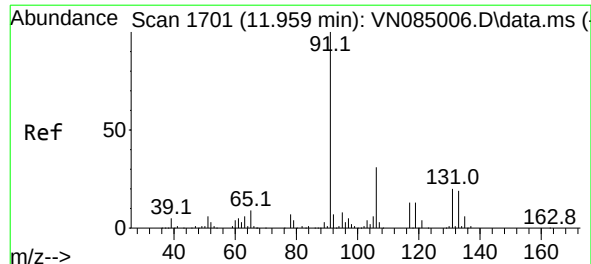
Ion Ratio Lower Upper

131 100

133 97.7 47.8 143.4

119 65.5 32.1 96.3





#67

Ethyl Benzene

Concen: 51.046 ug/l

RT: 11.959 min Scan# 1719

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

ICVNVN112224

Tgt Ion: 91 Resp: 477400

Ion Ratio Lower Upper

91 100

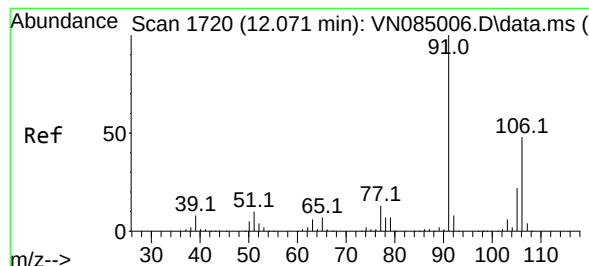
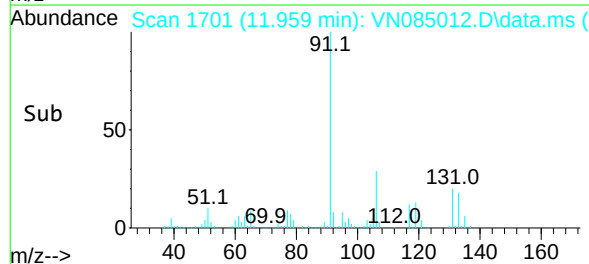
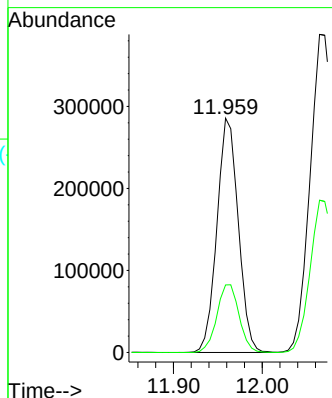
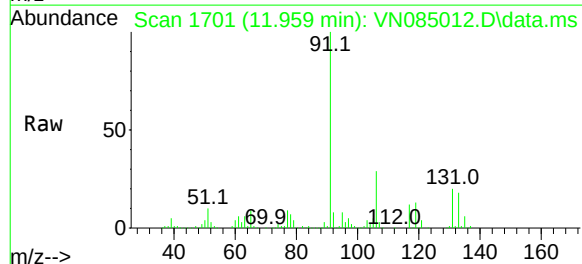
106 28.8 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#68

m/p-Xylenes

Concen: 101.951 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. -0.006 min

Lab File: VN085012.D

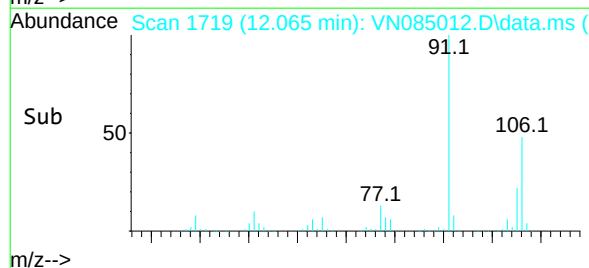
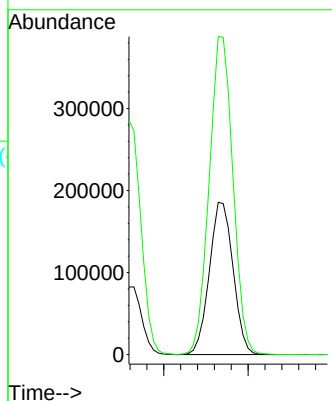
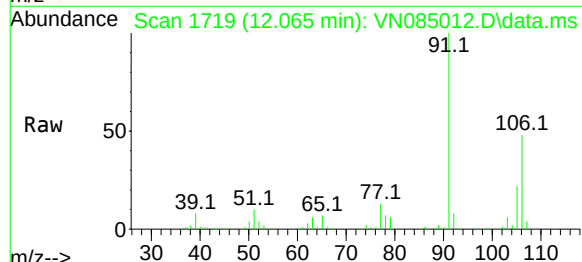
Acq: 22 Nov 2024 16:07

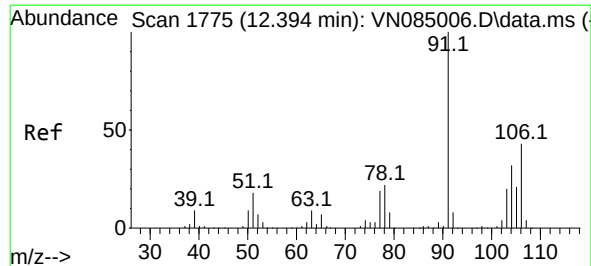
Tgt Ion:106 Resp: 363006

Ion Ratio Lower Upper

106 100

91 209.0 168.0 252.0





#69

o-Xylene

Concen: 51.086 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

ICNVN112224

Tgt Ion:106 Resp: 173028

Ion Ratio Lower Upper

106 100

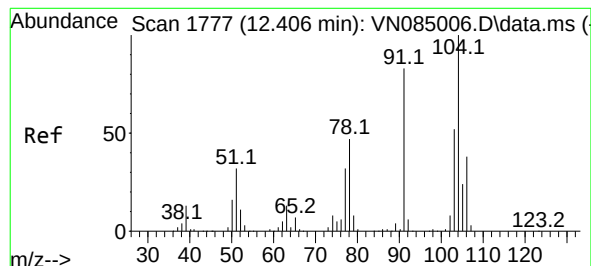
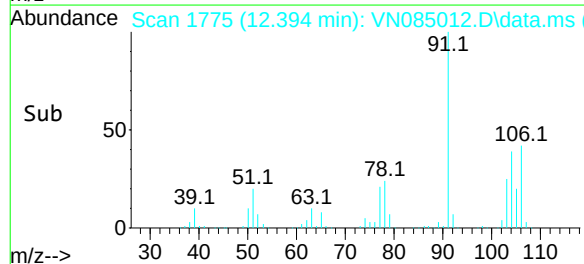
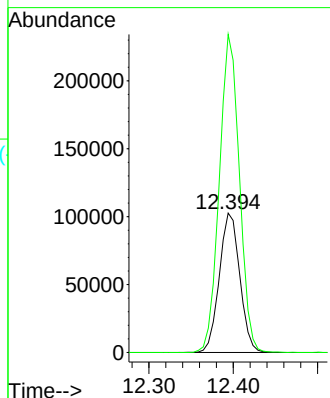
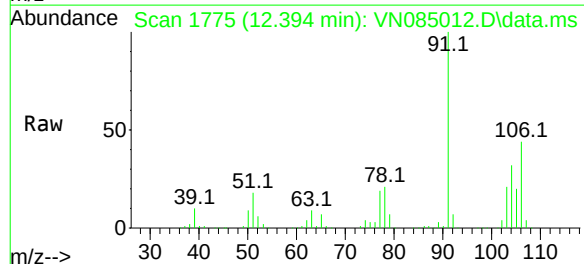
91 223.8 110.7 331.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#70

Styrene

Concen: 52.687 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

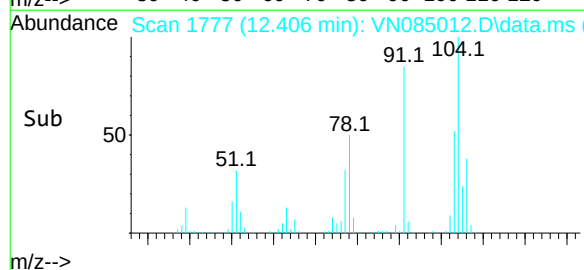
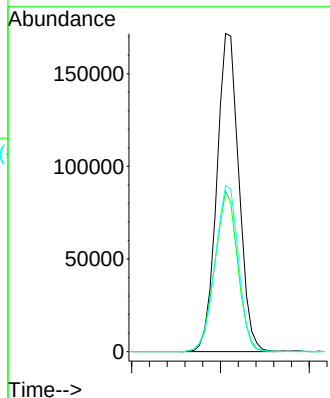
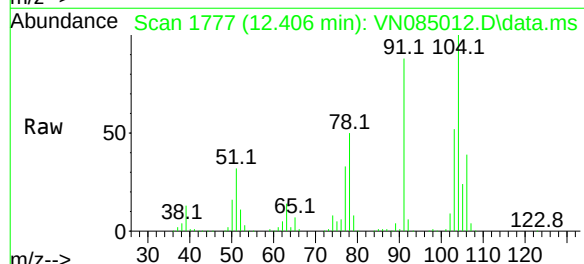
Tgt Ion:104 Resp: 296759

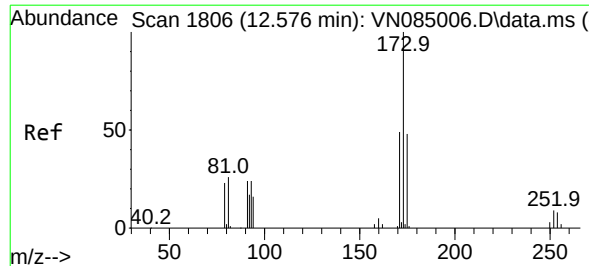
Ion Ratio Lower Upper

104 100

78 52.3 42.3 63.5

103 55.0 44.2 66.2





#71

Bromoform

Concen: 48.617 ug/l

RT: 12.576 min Scan# 18

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

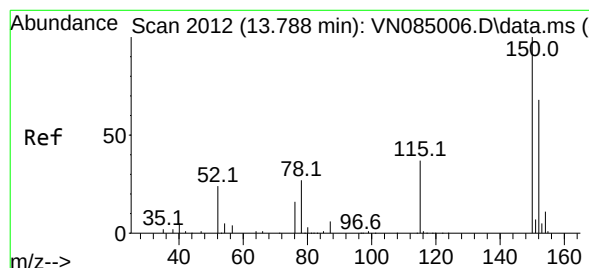
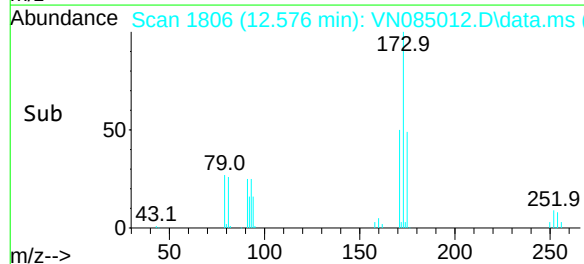
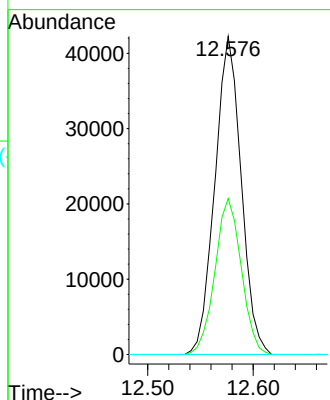
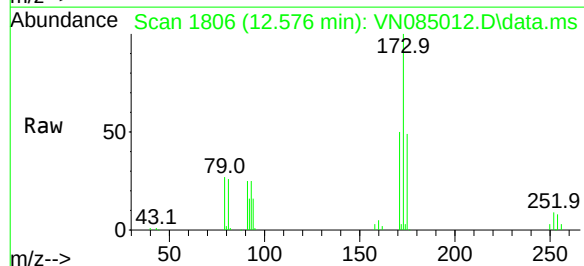
ClientSampleId :

ICNVN112224

Tgt Ion:	173	Resp:	73244
Ion Ratio	Lower	Upper	
173	100		
175	49.0	23.8	71.2
254	0.0	0.0	0.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

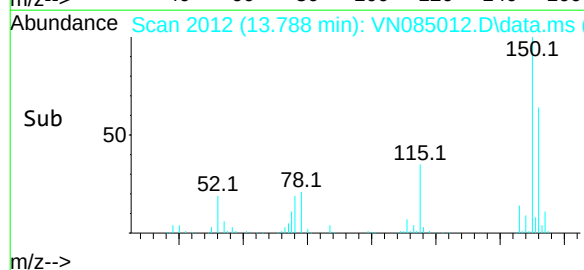
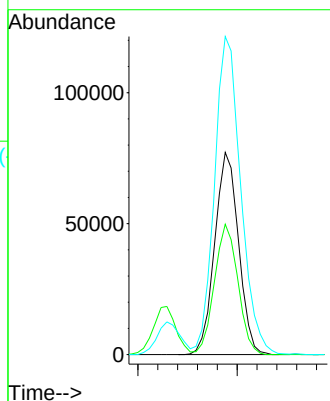
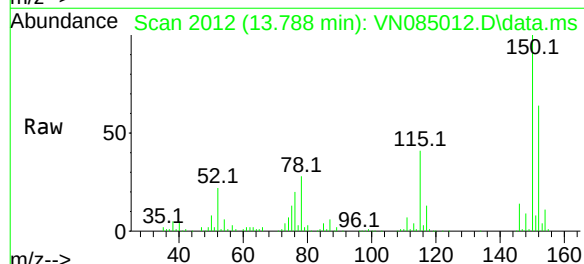
RT: 13.788 min Scan# 2012

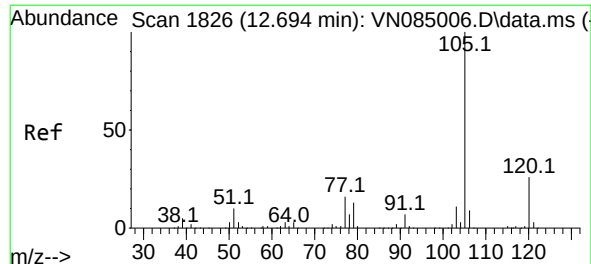
Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Tgt Ion:	152	Resp:	128770
Ion Ratio	Lower	Upper	
152	100		
115	63.6	31.7	95.1
150	173.6	0.0	351.4





#73

Isopropylbenzene

Concen: 49.014 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

ICVVN112224

Tgt Ion:105 Resp: 445261

Ion Ratio Lower Upper

105 100

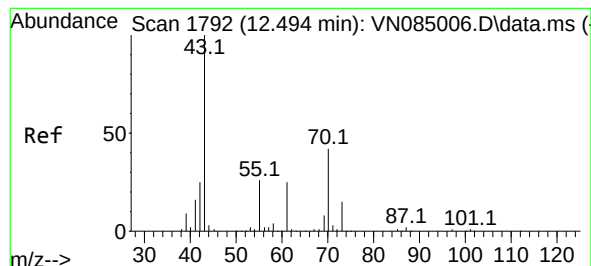
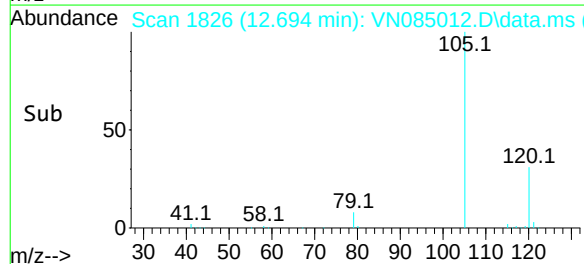
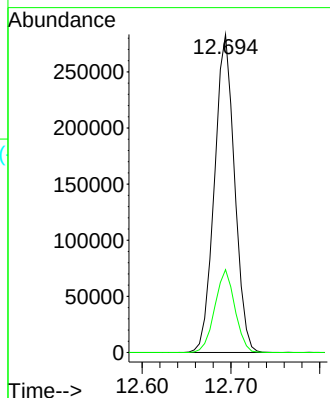
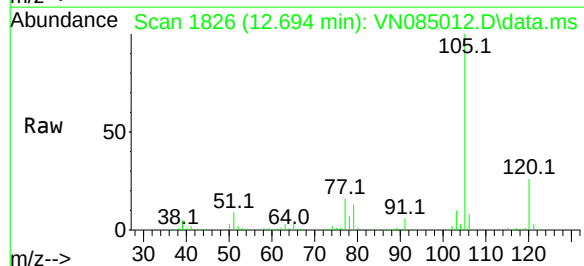
120 26.0 13.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#74

N-ethyl acetate

Concen: 49.418 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Tgt Ion: 43 Resp: 184990

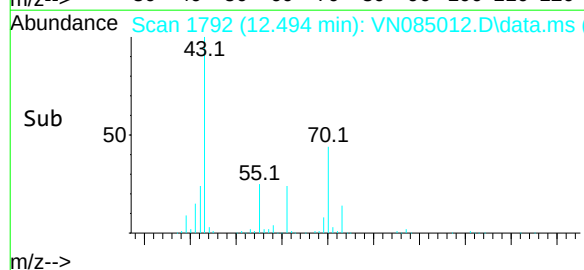
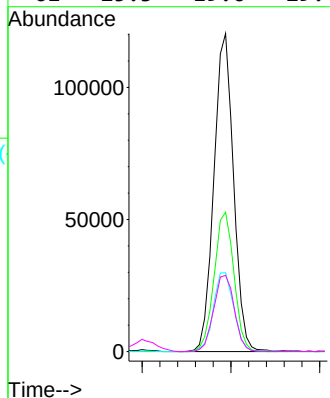
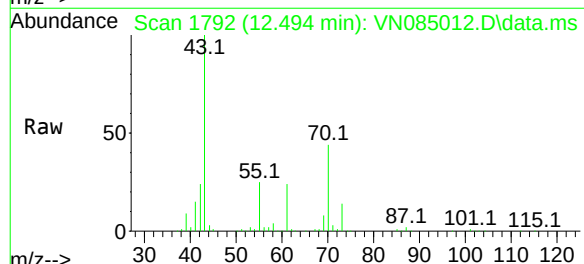
Ion Ratio Lower Upper

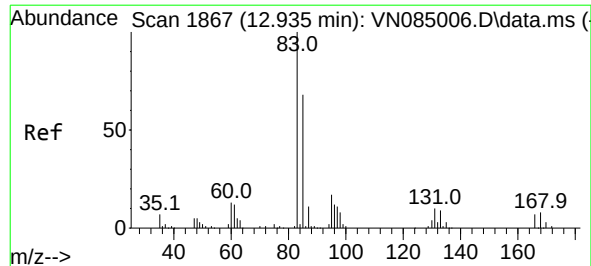
43 100

70 44.4 34.6 51.8

55 25.8 20.5 30.7

61 25.3 19.6 29.4





#75

1,1,2,2-Tetrachloroethane

Concen: 42.796 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

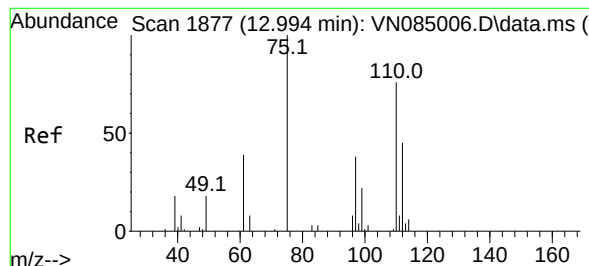
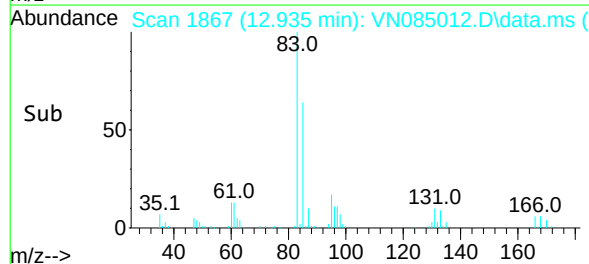
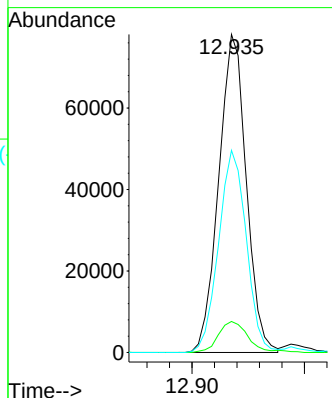
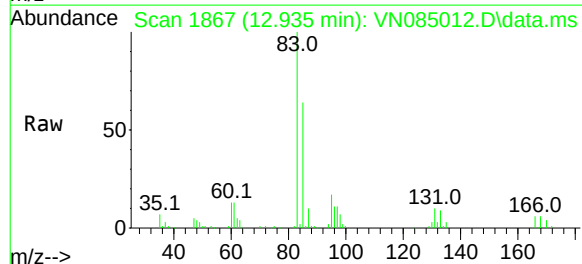
ClientSampleId :

ICNVN112224

Tgt Ion:	83	Resp:	132755
Ion	Ratio	Lower	Upper
83	100		
131	10.6	5.1	15.4
85	64.0	32.1	96.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#76

1,2,3-Trichloropropane

Concen: 45.225 ug/l m

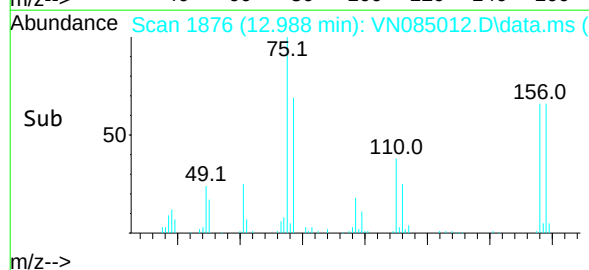
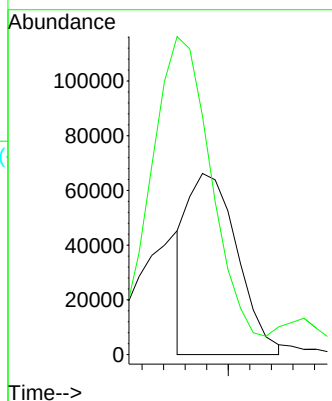
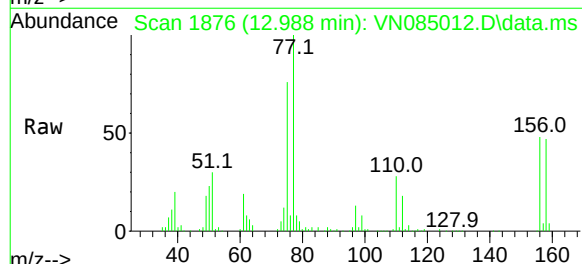
RT: 12.988 min Scan# 1876

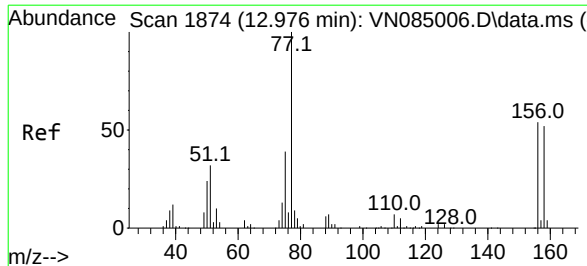
Delta R.T. -0.006 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Tgt Ion:	75	Resp:	105927
Ion	Ratio	Lower	Upper
75	100		
77	221.4	109.1	327.4





#77

Bromobenzene

Concen: 44.410 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. -0.000 min

Lab File: VN085012.D

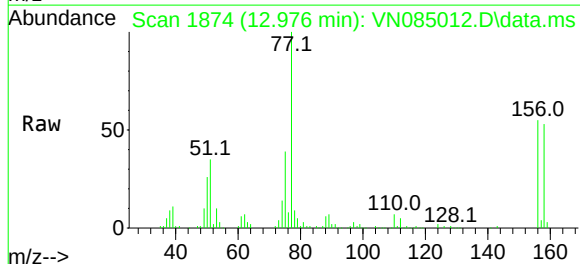
Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

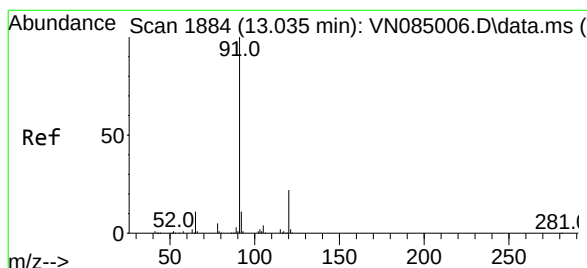
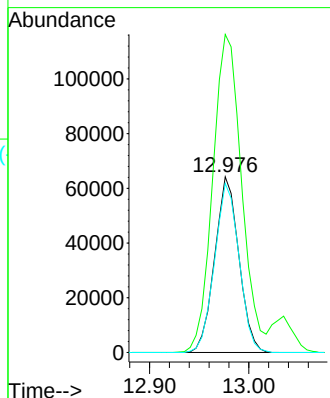
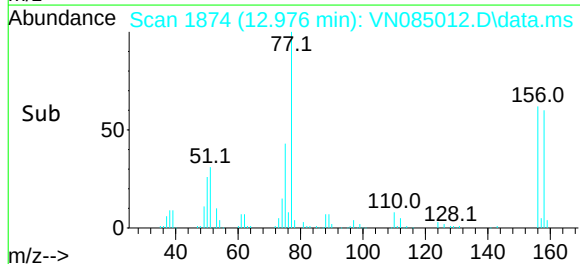
ICVN112224



Tgt Ion	156	Resp	108566
Ion Ratio	100	Lower	Upper
77	216.1	107.2	321.6
158	97.6	48.5	145.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#78

n-propylbenzene

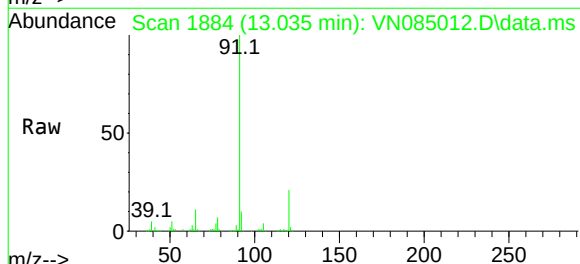
Concen: 50.160 ug/l

RT: 13.035 min Scan# 1884

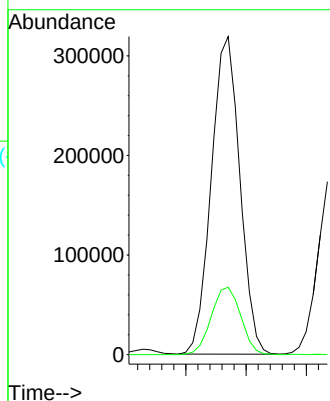
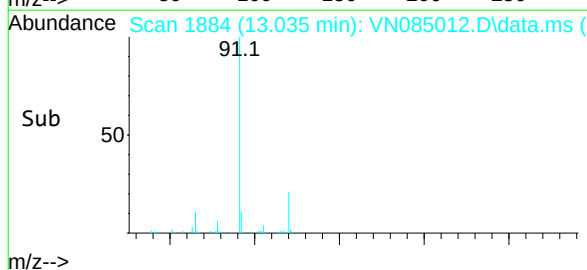
Delta R.T. -0.000 min

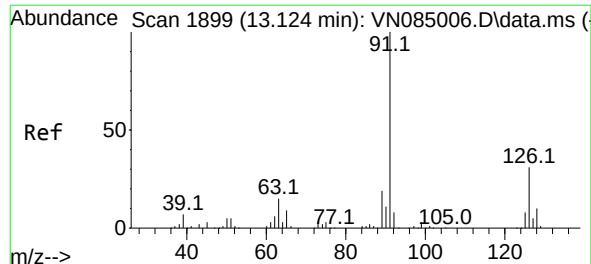
Lab File: VN085012.D

Acq: 22 Nov 2024 16:07



Tgt Ion	91	Resp	525567
Ion Ratio	100	Lower	Upper
120	21.8	11.3	33.9





#79

2-Chlorotoluene

Concen: 46.409 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

ICNVN112224

Tgt Ion: 91 Resp: 324611

Ion Ratio Lower Upper

91 100

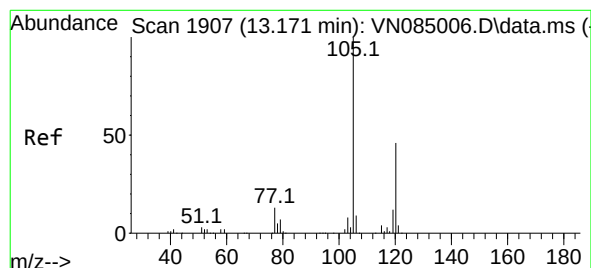
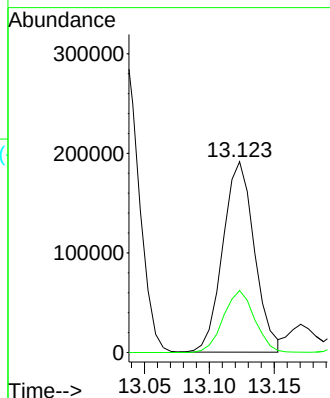
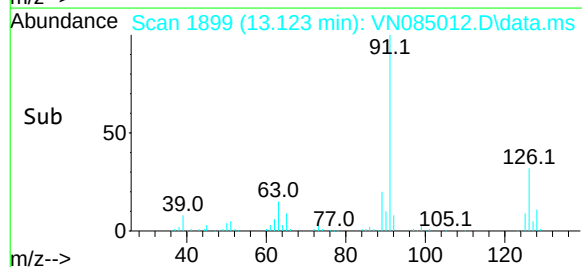
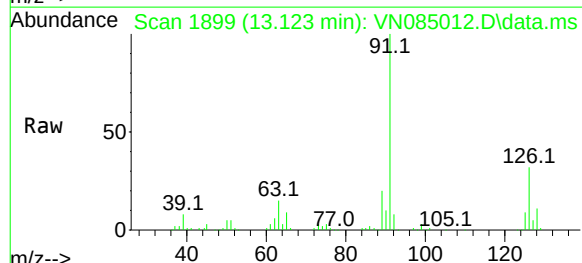
126 32.2 16.1 48.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#80

1,3,5-Trimethylbenzene

Concen: 50.220 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN085012.D

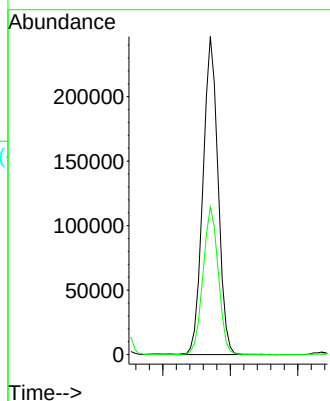
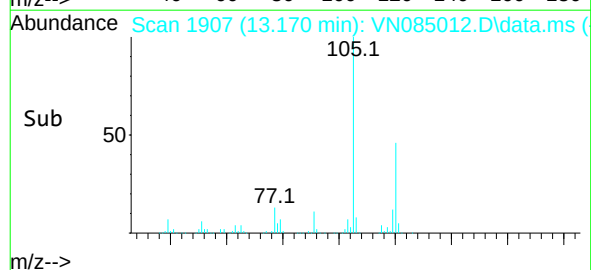
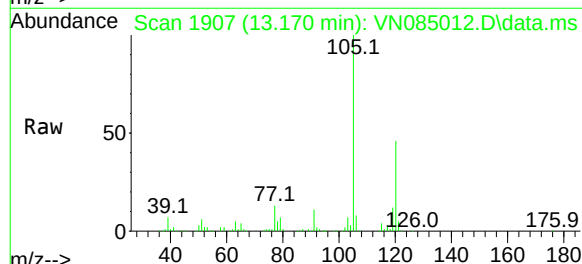
Acq: 22 Nov 2024 16:07

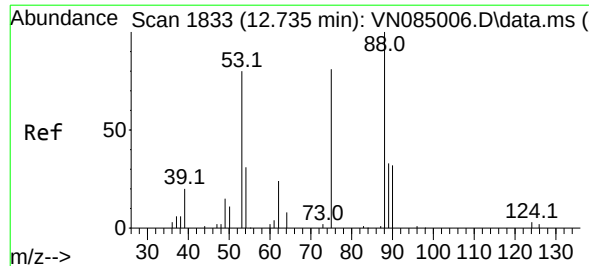
Tgt Ion:105 Resp: 382819

Ion Ratio Lower Upper

105 100

120 47.0 23.6 71.0





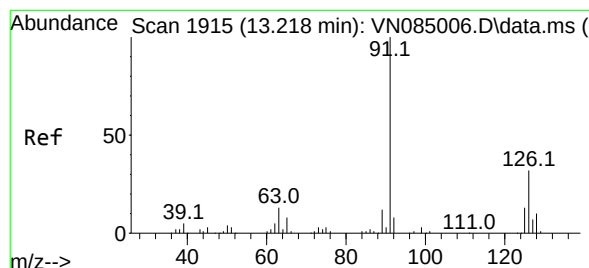
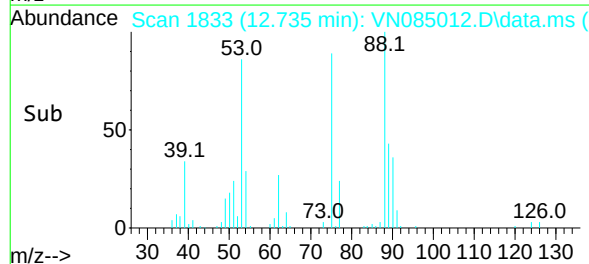
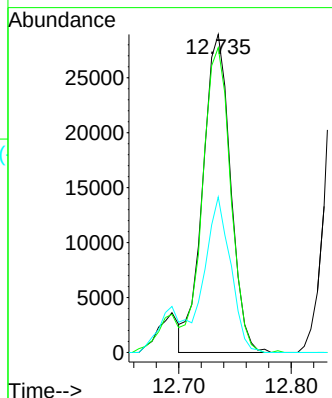
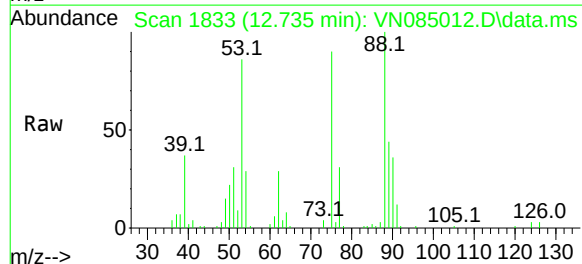
#81
trans-1,4-Dichloro-2-butene
Concen: 46.764 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN085012.D
Acq: 22 Nov 2024 16:07

Instrument :
MSVOA_N
ClientSampleId :
ICNVN112224

Tgt Ion	Ratio	Lower	Upper
75	100		
53	96.8	78.2	117.4
89	44.2	37.9	56.9

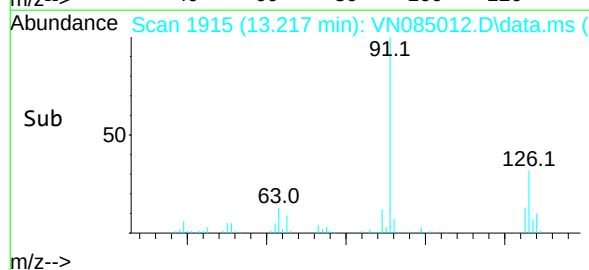
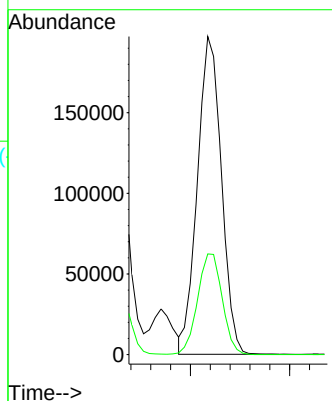
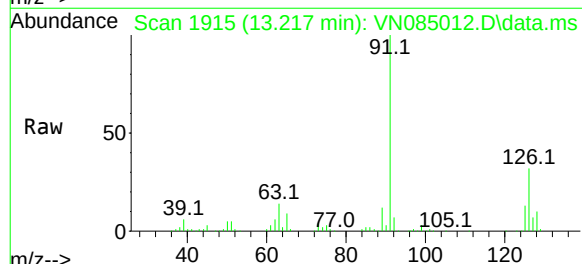
Manual Integrations
APPROVED

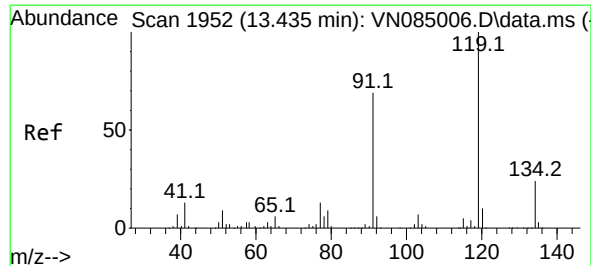
Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#82
4-Chlorotoluene
Concen: 45.496 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085012.D
Acq: 22 Nov 2024 16:07

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.5	16.1	48.3





#83

tert-Butylbenzene

Concen: 48.939 ug/l

RT: 13.435 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

ICNVN112224

Tgt Ion:119 Resp: 320979

Ion Ratio Lower Upper

119 100

91 70.2 35.1 105.5

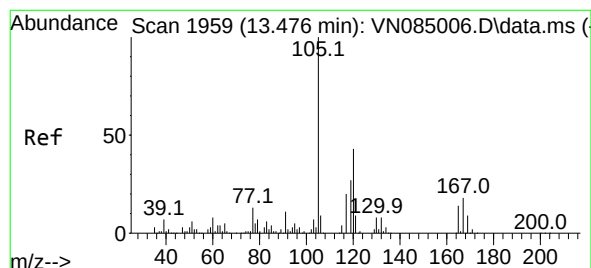
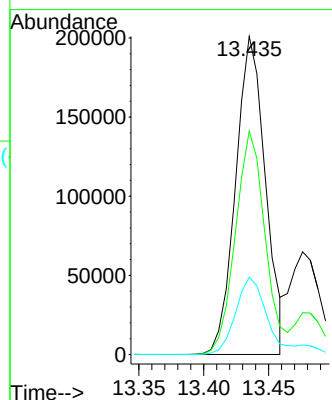
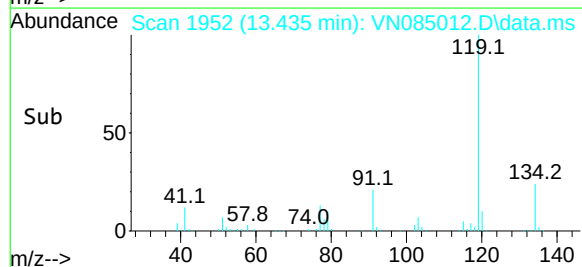
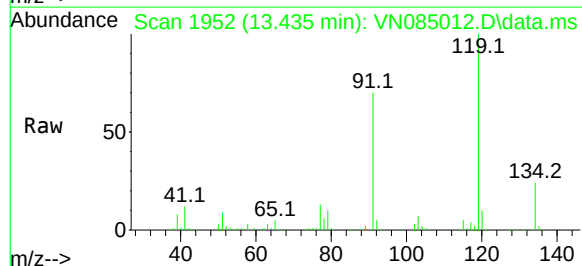
134 27.2 12.1 36.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#84

1,2,4-Trimethylbenzene

Concen: 49.962 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.006 min

Lab File: VN085012.D

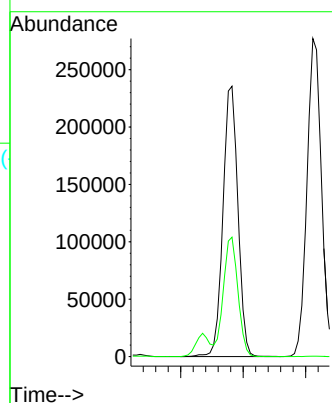
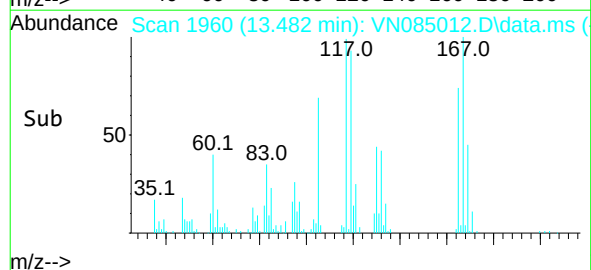
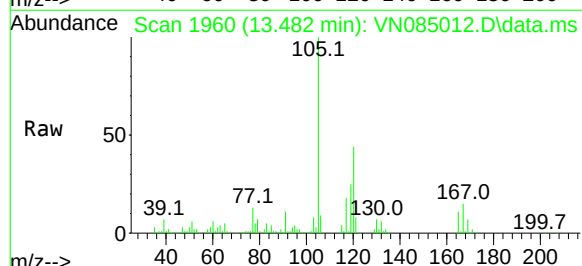
Acq: 22 Nov 2024 16:07

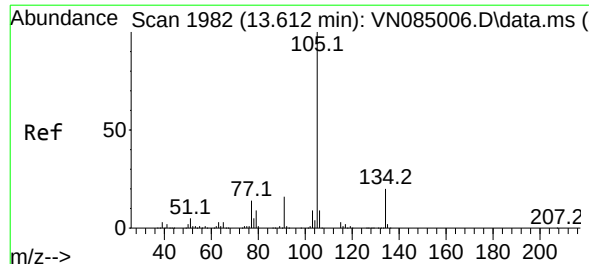
Tgt Ion:105 Resp: 392031

Ion Ratio Lower Upper

105 100

120 43.1 21.8 65.4





#85

sec-Butylbenzene

Concen: 50.166 ug/l

RT: 13.612 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

ICNVN112224

Tgt Ion:105 Resp: 444471

Ion Ratio Lower Upper

105 100

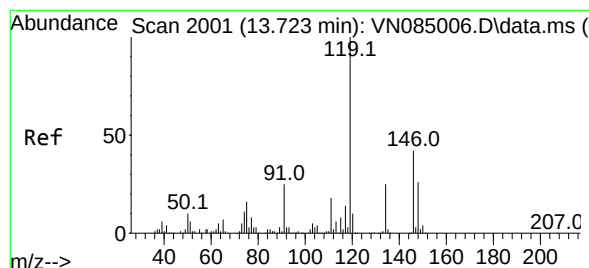
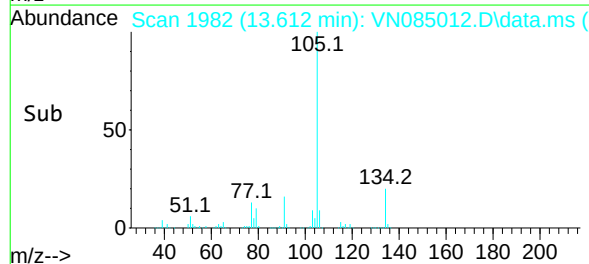
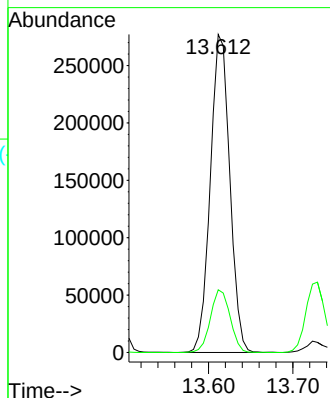
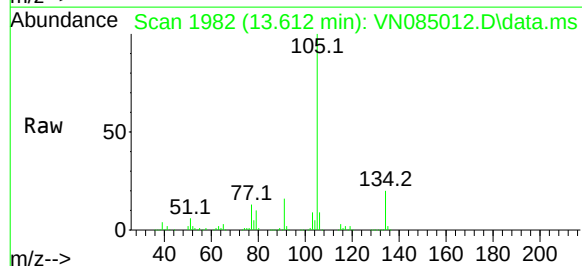
134 19.9 9.8 29.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#86

p-Isopropyltoluene

Concen: 51.719 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

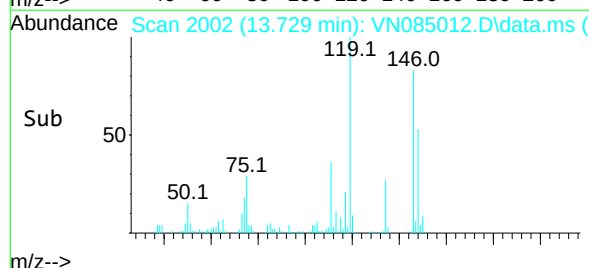
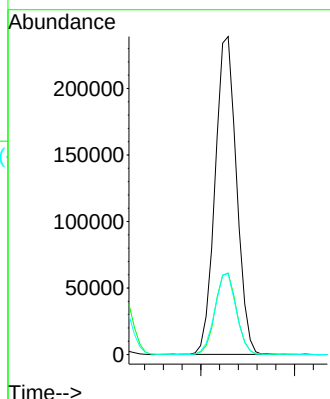
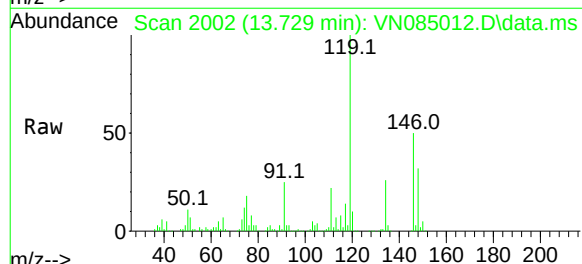
Tgt Ion:119 Resp: 378270

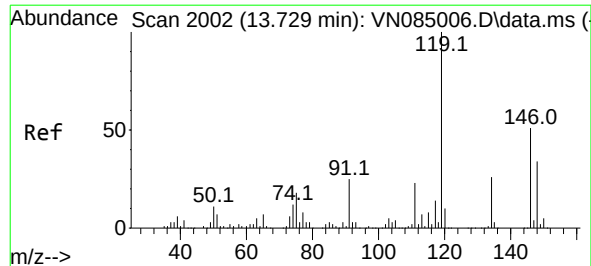
Ion Ratio Lower Upper

119 100

134 25.6 13.0 39.0

91 25.6 12.8 38.4





#87

1,3-Dichlorobenzene

Concen: 42.459 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

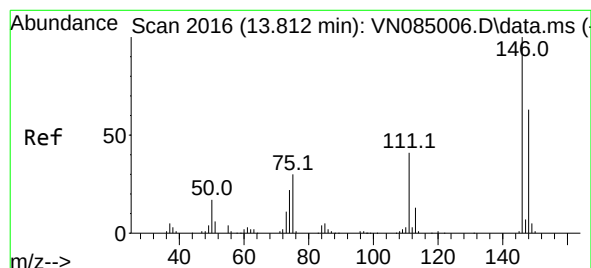
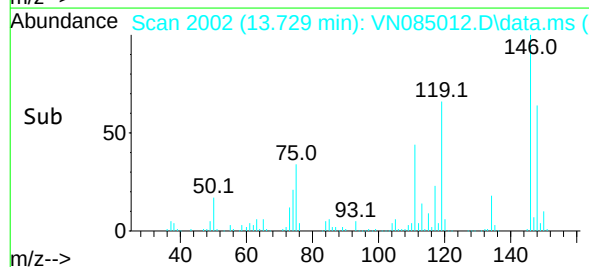
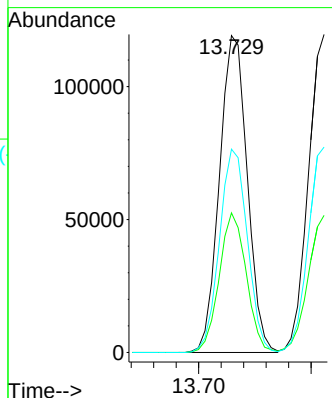
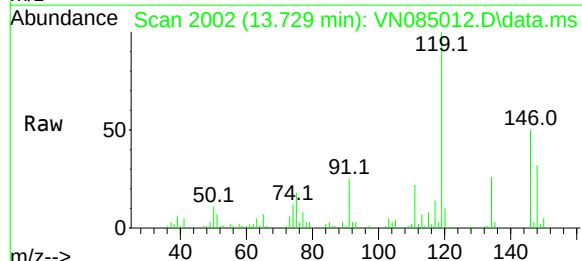
ICNVN112224

Tgt Ion:	146	Resp:	204731
Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.6	65.0
148	64.4	32.2	96.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#88

1,4-Dichlorobenzene

Concen: 41.240 ug/l

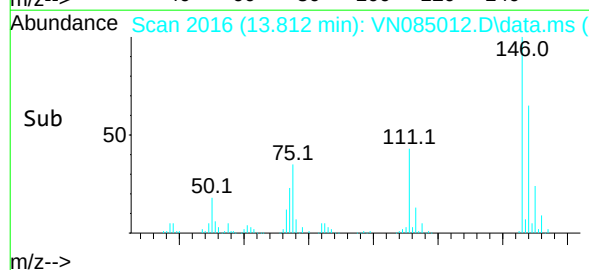
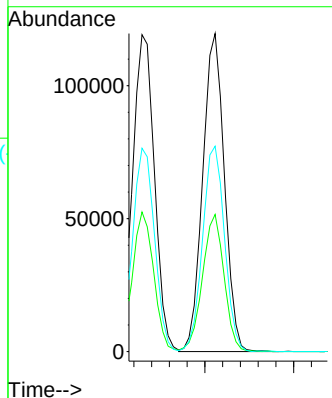
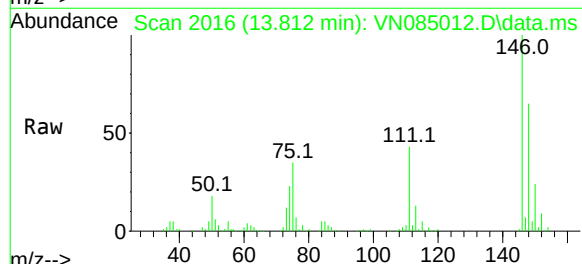
RT: 13.812 min Scan# 2016

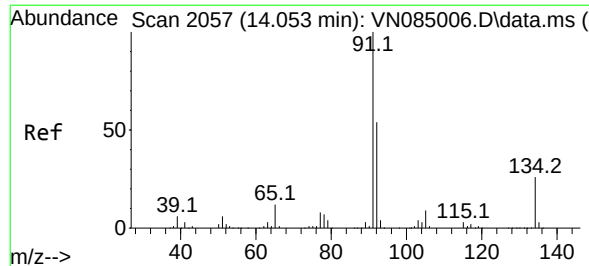
Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Tgt Ion:	146	Resp:	202930
Ion	Ratio	Lower	Upper
146	100		
111	43.0	20.9	62.8
148	65.1	31.3	93.9





#89

n-Butylbenzene

Concen: 47.892 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

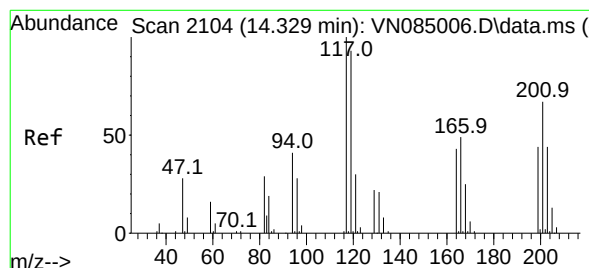
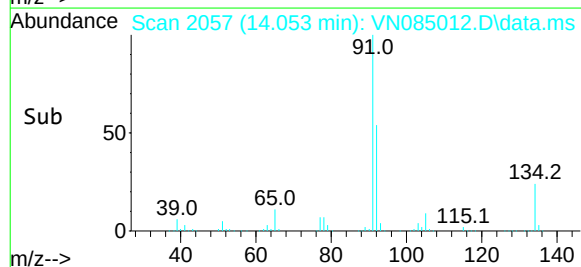
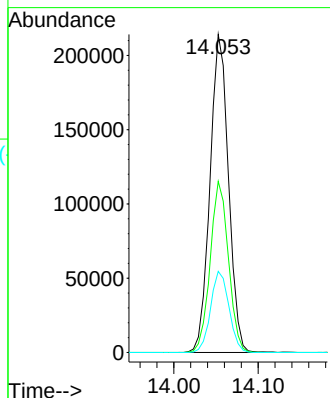
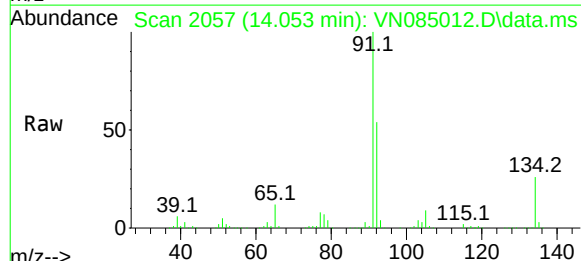
ClientSampleId :

ICVVN112224

Tgt Ion:	91	Resp:	325752
Ion	Ratio	Lower	Upper
91	100		
92	53.2	26.8	80.3
134	25.4	12.8	38.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#90

Hexachloroethane

Concen: 45.332 ug/l

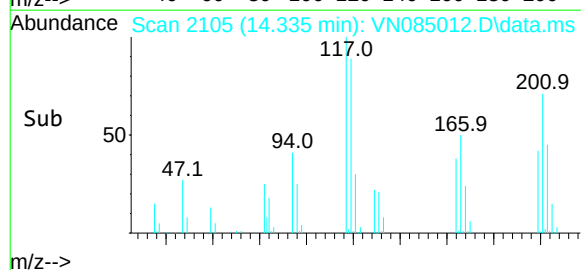
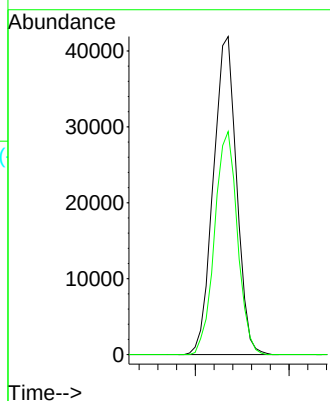
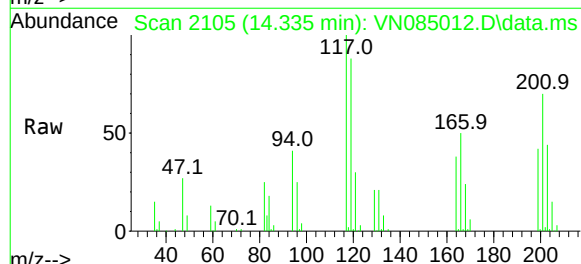
RT: 14.335 min Scan# 2105

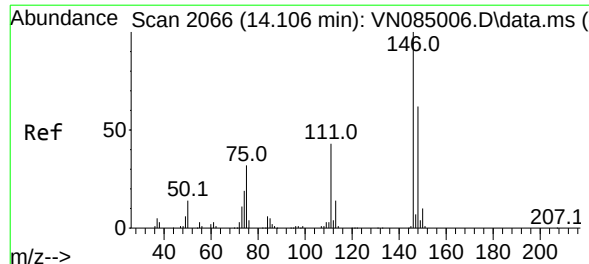
Delta R.T. 0.006 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Tgt Ion:	117	Resp:	72271
Ion	Ratio	Lower	Upper
117	100		
201	68.7	35.2	105.6





#91

1,2-Dichlorobenzene

Concen: 43.472 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

ICNVN112224

Tgt Ion:146 Resp: 200864

Ion Ratio Lower Upper

146 100

111 44.4 21.9 65.8

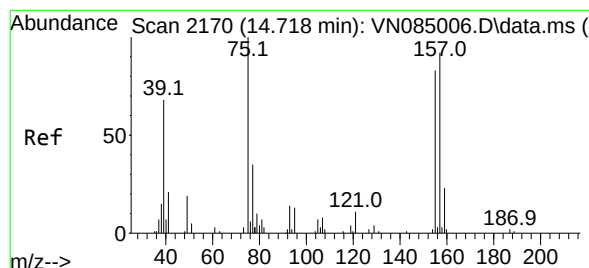
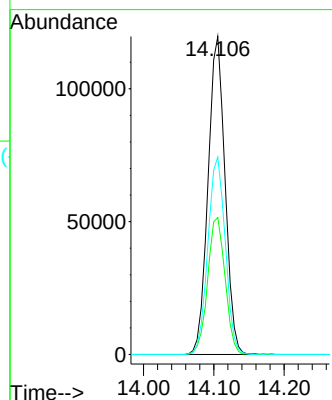
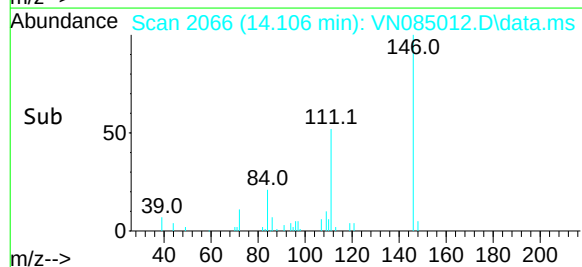
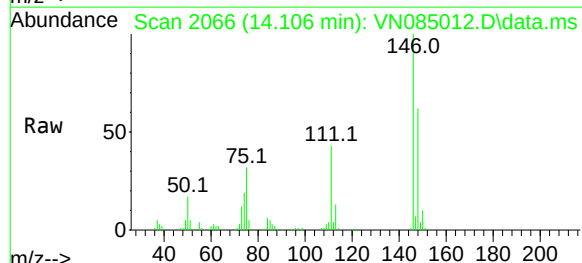
148 63.7 31.1 93.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 44.183 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

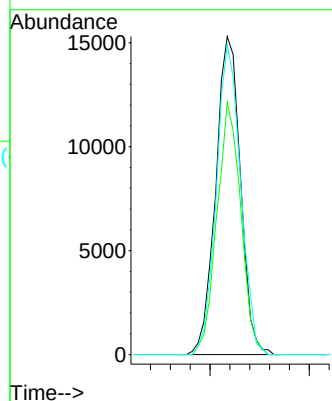
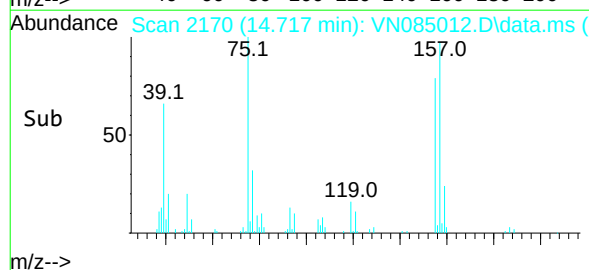
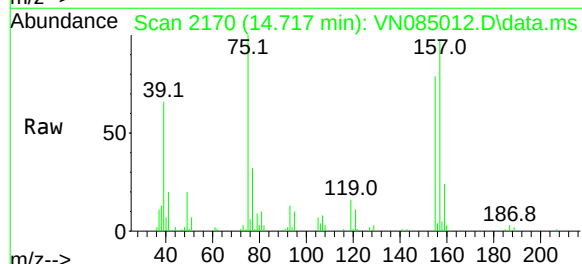
Tgt Ion: 75 Resp: 26503

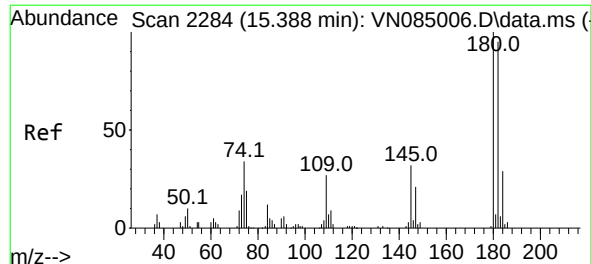
Ion Ratio Lower Upper

75 100

155 76.6 38.9 116.7

157 95.3 48.3 144.9





#93

1,2,4-Trichlorobenzene

Concen: 42.908 ug/l

RT: 15.394 min Scan# 2284

Delta R.T. 0.006 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

ClientSampleId :

ICVN112224

Tgt Ion:180 Resp: 107707

Ion Ratio Lower Upper

180 100

182 94.4 46.9 140.8

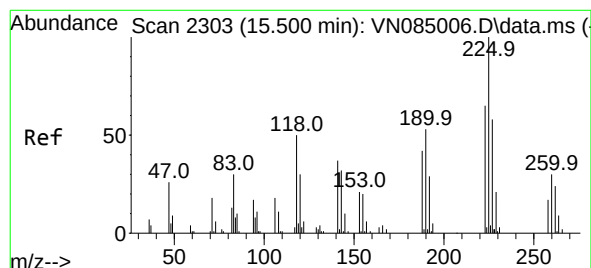
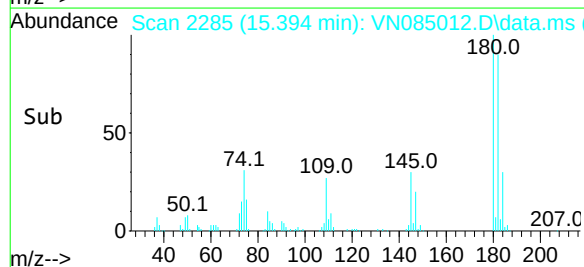
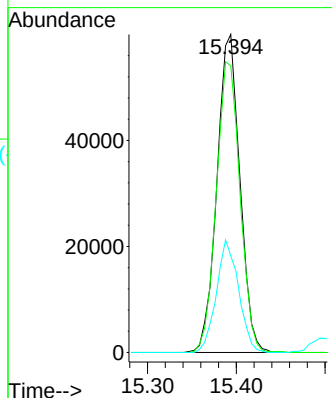
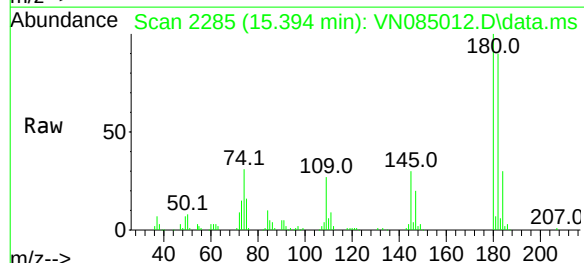
145 34.3 16.3 48.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/25/2024

Supervised By :Mahesh Dadoda 11/25/2024



#94

Hexachlorobutadiene

Concen: 42.581 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

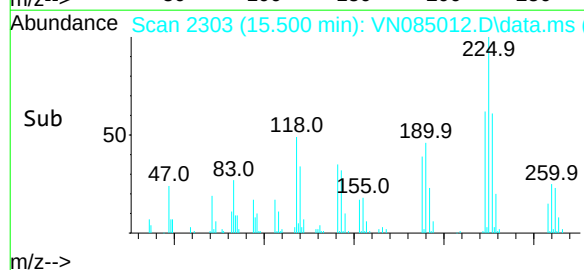
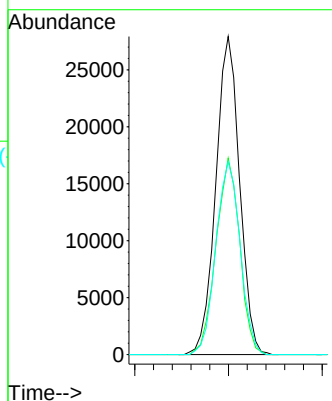
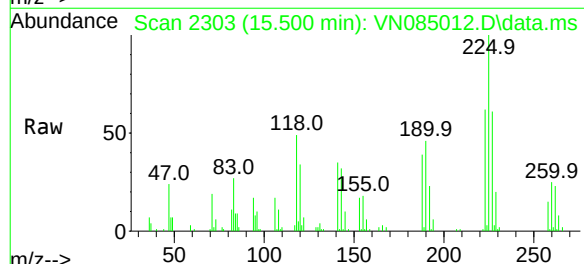
Tgt Ion:225 Resp: 49330

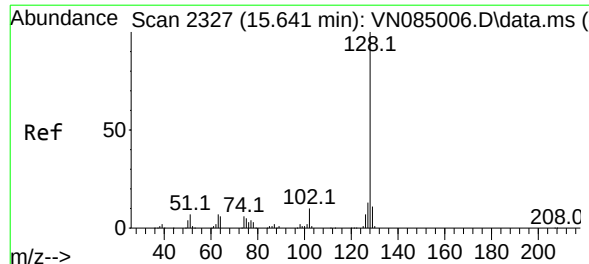
Ion Ratio Lower Upper

225 100

223 61.4 30.9 92.8

227 61.9 31.5 94.5





#95

Naphthalene

Concen: 46.067 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. -0.000 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Instrument :

MSVOA_N

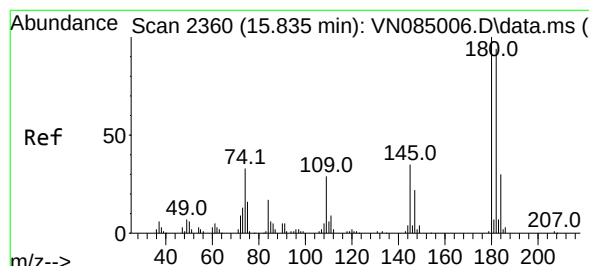
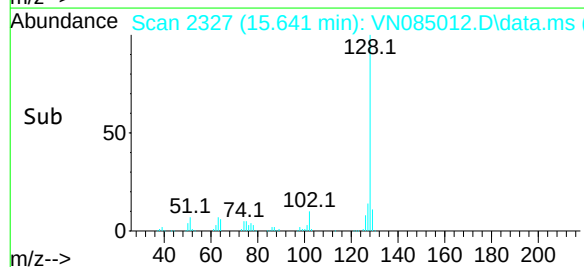
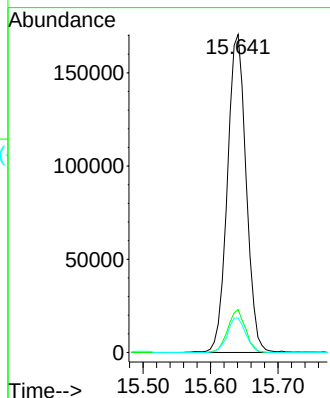
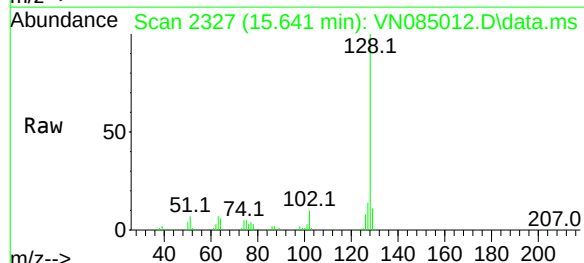
ClientSampleId :

ICNVN112224

Tgt Ion:	128	Resp:	329352
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.6	16.0
129	10.7	8.6	12.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



#96

1,2,3-Trichlorobenzene

Concen: 42.932 ug/l

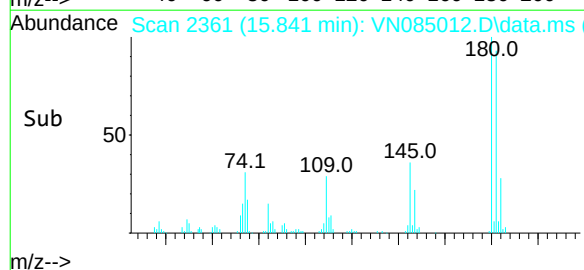
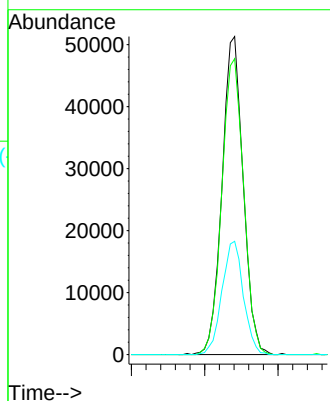
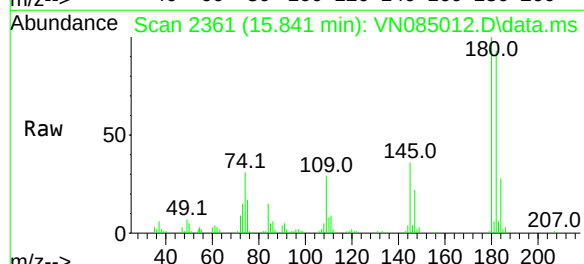
RT: 15.841 min Scan# 2361

Delta R.T. 0.006 min

Lab File: VN085012.D

Acq: 22 Nov 2024 16:07

Tgt Ion:	180	Resp:	102829
Ion	Ratio	Lower	Upper
180	100		
182	95.9	46.4	139.2
145	36.1	17.3	52.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085012.D
Acq On : 22 Nov 2024 16:07
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN112224

Quant Time: Nov 23 02:57:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	110	0.00
2 T	Dichlorodifluoromethane	0.565	0.527	6.7	104	0.00
3 P	Chloromethane	0.656	0.553	15.7	103	0.00
4 C	Vinyl Chloride	0.589	0.539	8.5#	103	0.00
5 T	Bromomethane	0.330	0.297	10.0	105	0.00
6 T	Chloroethane	0.397	0.330	16.9	96	0.01
7 T	Trichlorofluoromethane	1.002	0.921	8.1	105	0.02
8 T	Diethyl Ether	0.341	0.327	4.1	103	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.569	0.520	8.6	104	0.00
10 T	Methyl Iodide	0.753	0.708	6.0	105	0.00
11 T	Tert butyl alcohol	0.095	0.083	12.6	101	0.00
12 CM	1,1-Dichloroethene	0.531	0.495	6.8#	104	0.01
13 T	Acrolein	0.064	0.065	-1.6	103	0.00
14 T	Allyl chloride	0.895	0.844	5.7	105	0.00
15 T	Acrylonitrile	0.269	0.250	7.1	105	0.00
16 T	Acetone	0.207	0.210	-1.4	114	0.00
17 T	Carbon Disulfide	1.566	1.358	13.3	102	0.00
18 T	Methyl Acetate	0.804	0.618	23.1	104	0.00
19 T	Methyl tert-butyl Ether	1.734	1.685	2.8	105	0.00
20 T	Methylene Chloride	0.633	0.545	13.9	102	0.00
21 T	trans-1,2-Dichloroethene	0.558	0.512	8.2	101	0.00
22 T	Diisopropyl ether	1.801	1.703	5.4	106	0.00
23 T	Vinyl Acetate	1.242	1.230	1.0	105	0.00
24 P	1,1-Dichloroethane	1.078	0.984	8.7	103	0.00
25 T	2-Butanone	0.339	0.327	3.5	109	0.00
26 T	2,2-Dichloropropane	1.006	0.933	7.3	104	0.00
27 T	cis-1,2-Dichloroethene	0.673	0.614	8.8	103	0.00
28 T	Bromochloromethane	0.407	0.374	8.1	104	0.00
29 T	Tetrahydrofuran	0.211	0.204	3.3	105	0.00
30 C	Chloroform	1.146	1.046	8.7#	105	0.00
31 T	Cyclohexane	0.949	0.874	7.9	109	0.00
32 T	1,1,1-Trichloroethane	1.036	0.947	8.6	103	0.00
33 S	1,2-Dichloroethane-d4	0.712	0.720	-1.1	113	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	108	0.00
35 S	Dibromofluoromethane	0.337	0.348	-3.3	111	0.00
36 T	1,1-Dichloropropene	0.457	0.439	3.9	104	0.00
37 T	Ethyl Acetate	0.415	0.387	6.7	104	0.00
38 T	Carbon Tetrachloride	0.527	0.515	2.3	104	0.00
39 T	Methylcyclohexane	0.475	0.495	-4.2	106	0.00
40 TM	Benzene	1.444	1.377	4.6	105	0.00
41 T	Methacrylonitrile	0.230	0.227	1.3	106	0.00
42 TM	1,2-Dichloroethane	0.494	0.465	5.9	105	0.00
43 T	Isopropyl Acetate	0.862	0.717	16.8	103	0.00
44 TM	Trichloroethene	0.336	0.317	5.7	105	0.00
45 C	1,2-Dichloropropane	0.356	0.335	5.9#	104	0.00
46 T	Dibromomethane	0.247	0.237	4.0	105	0.00
47 T	Bromodichloromethane	0.524	0.499	4.8	103	0.00
48 T	Methyl methacrylate	0.321	0.327	-1.9	108	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085012.D
Acq On : 22 Nov 2024 16:07
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN112224

Quant Time: Nov 23 02:57:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.006	0.005	16.7	98	0.00
50 S	Toluene-d8	1.208	1.293	-7.0	112	0.00
51 T	4-Methyl-2-Pentanone	0.394	0.397	-0.8	106	0.00
52 CM	Toluene	0.855	0.850	0.6#	104	0.00
53 T	t-1,3-Dichloropropene	0.525	0.514	2.1	101	0.00
54 T	cis-1,3-Dichloropropene	0.557	0.558	-0.2	105	0.00
55 T	1,1,2-Trichloroethane	0.319	0.314	1.6	106	0.00
56 T	Ethyl methacrylate	0.465	0.509	-9.5	106	0.00
57 T	1,3-Dichloropropane	0.561	0.538	4.1	104	0.00
58 T	2-Chloroethyl Vinyl ether	0.228	0.215	5.7	86	0.00
59 T	2-Hexanone	0.295	0.303	-2.7	105	0.00
60 T	Dibromochloromethane	0.389	0.371	4.6	104	0.00
61 T	1,2-Dibromoethane	0.330	0.322	2.4	106	0.00
62 S	4-Bromofluorobenzene	0.452	0.482	-6.6	111	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	109	0.00
64 T	Tetrachloroethene	0.337	0.326	3.3	109	0.00
65 PM	Chlorobenzene	1.134	1.042	8.1	105	0.00
66 T	1,1,1,2-Tetrachloroethane	0.399	0.375	6.0	103	0.00
67 C	Ethyl Benzene	1.840	1.878	-2.1#	106	0.00
68 T	m/p-Xylenes	0.700	0.714	-2.0	106	0.00
69 T	o-Xylene	0.666	0.681	-2.3	105	0.00
70 T	Styrene	1.108	1.168	-5.4	107	0.00
71 P	Bromoform	0.296	0.288	2.7	102	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	112	0.00
73 T	Isopropylbenzene	3.527	3.458	2.0	107	0.00
74 T	N-amyl acetate	1.454	1.437	1.2	104	0.00
75 P	1,1,2,2-Tetrachloroethane	1.204	1.031	14.4	105	0.00
76 T	1,2,3-Trichloropropane	0.909	0.823	9.5	103	0.00
77 T	Bromobenzene	0.949	0.843	11.2	103	0.00
78 T	n-propylbenzene	4.068	4.081	-0.3	108	0.00
79 T	2-Chlorotoluene	2.716	2.521	7.2	106	0.00
80 T	1,3,5-Trimethylbenzene	2.960	2.973	-0.4	106	0.00
81 T	trans-1,4-Dichloro-2-butene	0.412	0.385	6.6	106	0.00
82 T	4-Chlorotoluene	2.827	2.573	9.0	104	0.00
83 T	tert-Butylbenzene	2.547	2.493	2.1	107	0.00
84 T	1,2,4-Trimethylbenzene	3.047	3.044	0.1	106	0.00
85 T	sec-Butylbenzene	3.440	3.452	-0.3	106	0.00
86 T	p-Isopropyltoluene	2.840	2.938	-3.5	107	0.00
87 T	1,3-Dichlorobenzene	1.872	1.590	15.1	104	0.00
88 T	1,4-Dichlorobenzene	1.911	1.576	17.5	101	0.00
89 T	n-Butylbenzene	2.641	2.530	4.2	107	0.00
90 T	Hexachloroethane	0.619	0.561	9.4	104	0.00
91 T	1,2-Dichlorobenzene	1.794	1.560	13.0	104	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.233	0.206	11.6	106	0.00
93 T	1,2,4-Trichlorobenzene	0.975	0.836	14.3	104	0.00
94 T	Hexachlorobutadiene	0.450	0.383	14.9	107	0.00
95 T	Naphthalene	2.776	2.558	7.9	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085012.D
Acq On : 22 Nov 2024 16:07
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN112224

Quant Time: Nov 23 02:57:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
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	0.930	0.799	14.1	100	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085012.D
Acq On : 22 Nov 2024 16:07
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN112224

Quant Time: Nov 23 02:57:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	110	0.00
2 T	Dichlorodifluoromethane	50.000	46.612	6.8	104	0.00
3 P	Chloromethane	50.000	42.164	15.7	103	0.00
4 C	Vinyl Chloride	50.000	45.721	8.6#	103	0.00
5 T	Bromomethane	50.000	44.945	10.1	105	0.00
6 T	Chloroethane	50.000	41.527	16.9	96	0.01
7 T	Trichlorofluoromethane	50.000	45.916	8.2	105	0.02
8 T	Diethyl Ether	50.000	47.942	4.1	103	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	45.709	8.6	104	0.00
10 T	Methyl Iodide	50.000	47.063	5.9	105	0.00
11 T	Tert butyl alcohol	250.000	216.857	13.3	101	0.00
12 CM	1,1-Dichloroethene	50.000	46.677	6.6#	104	0.01
13 T	Acrolein	250.000	256.710	-2.7	103	0.00
14 T	Allyl chloride	50.000	47.178	5.6	105	0.00
15 T	Acrylonitrile	250.000	232.029	7.2	105	0.00
16 T	Acetone	250.000	252.665	-1.1	114	0.00
17 T	Carbon Disulfide	50.000	43.362	13.3	102	0.00
18 T	Methyl Acetate	50.000	46.500	7.0	104	0.00
19 T	Methyl tert-butyl Ether	50.000	48.602	2.8	105	0.00
20 T	Methylene Chloride	50.000	43.090	13.8	102	0.00
21 T	trans-1,2-Dichloroethene	50.000	45.805	8.4	101	0.00
22 T	Diisopropyl ether	50.000	47.281	5.4	106	0.00
23 T	Vinyl Acetate	250.000	247.560	1.0	105	0.00
24 P	1,1-Dichloroethane	50.000	45.647	8.7	103	0.00
25 T	2-Butanone	250.000	240.802	3.7	109	0.00
26 T	2,2-Dichloropropane	50.000	46.349	7.3	104	0.00
27 T	cis-1,2-Dichloroethene	50.000	45.609	8.8	103	0.00
28 T	Bromochloromethane	50.000	45.913	8.2	104	0.00
29 T	Tetrahydrofuran	250.000	241.241	3.5	105	0.00
30 C	Chloroform	50.000	45.623	8.8#	105	0.00
31 T	Cyclohexane	50.000	46.084	7.8	109	0.00
32 T	1,1,1-Trichloroethane	50.000	45.714	8.6	103	0.00
33 S	1,2-Dichloroethane-d4	50.000	50.568	-1.1	113	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	108	0.00
35 S	Dibromofluoromethane	50.000	51.572	-3.1	111	0.00
36 T	1,1-Dichloropropene	50.000	48.093	3.8	104	0.00
37 T	Ethyl Acetate	50.000	46.651	6.7	104	0.00
38 T	Carbon Tetrachloride	50.000	48.846	2.3	104	0.00
39 T	Methylcyclohexane	50.000	52.114	-4.2	106	0.00
40 TM	Benzene	50.000	47.675	4.7	105	0.00
41 T	Methacrylonitrile	50.000	49.311	1.4	106	0.00
42 TM	1,2-Dichloroethane	50.000	47.025	6.0	105	0.00
43 T	Isopropyl Acetate	50.000	41.574	16.9	103	0.00
44 TM	Trichloroethene	50.000	47.205	5.6	105	0.00
45 C	1,2-Dichloropropane	50.000	47.073	5.9#	104	0.00
46 T	Dibromomethane	50.000	47.909	4.2	105	0.00
47 T	Bromodichloromethane	50.000	47.631	4.7	103	0.00
48 T	Methyl methacrylate	50.000	50.900	-1.8	108	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085012.D
Acq On : 22 Nov 2024 16:07
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN112224

Quant Time: Nov 23 02:57:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
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	950.585	4.9	98	0.00
50 S	Toluene-d8	50.000	53.488	-7.0	112	0.00
51 T	4-Methyl-2-Pentanone	250.000	251.720	-0.7	106	0.00
52 CM	Toluene	50.000	49.682	0.6#	104	0.00
53 T	t-1,3-Dichloropropene	50.000	48.881	2.2	101	0.00
54 T	cis-1,3-Dichloropropene	50.000	50.100	-0.2	105	0.00
55 T	1,1,2-Trichloroethane	50.000	49.287	1.4	106	0.00
56 T	Ethyl methacrylate	50.000	54.694	-9.4	106	0.00
57 T	1,3-Dichloropropane	50.000	47.980	4.0	104	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	235.323	5.9	86	0.00
59 T	2-Hexanone	250.000	256.983	-2.8	105	0.00
60 T	Dibromochloromethane	50.000	47.650	4.7	104	0.00
61 T	1,2-Dibromoethane	50.000	48.883	2.2	106	0.00
62 S	4-Bromofluorobenzene	50.000	53.276	-6.6	111	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	109	0.00
64 T	Tetrachloroethene	50.000	48.316	3.4	109	0.00
65 PM	Chlorobenzene	50.000	45.936	8.1	105	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	46.991	6.0	103	0.00
67 C	Ethyl Benzene	50.000	51.046	-2.1#	106	0.00
68 T	m/p-Xylenes	100.000	101.951	-2.0	106	0.00
69 T	o-Xylene	50.000	51.086	-2.2	105	0.00
70 T	Styrene	50.000	52.687	-5.4	107	0.00
71 P	Bromoform	50.000	48.617	2.8	102	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	112	0.00
73 T	Isopropylbenzene	50.000	49.014	2.0	107	0.00
74 T	N-amyl acetate	50.000	49.418	1.2	104	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	42.796	14.4	105	0.00
76 T	1,2,3-Trichloropropane	50.000	45.225	9.5	103	0.00
77 T	Bromobenzene	50.000	44.410	11.2	103	0.00
78 T	n-propylbenzene	50.000	50.160	-0.3	108	0.00
79 T	2-Chlorotoluene	50.000	46.409	7.2	106	0.00
80 T	1,3,5-Trimethylbenzene	50.000	50.220	-0.4	106	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	46.764	6.5	106	0.00
82 T	4-Chlorotoluene	50.000	45.496	9.0	104	0.00
83 T	tert-Butylbenzene	50.000	48.939	2.1	107	0.00
84 T	1,2,4-Trimethylbenzene	50.000	49.962	0.1	106	0.00
85 T	sec-Butylbenzene	50.000	50.166	-0.3	106	0.00
86 T	p-Isopropyltoluene	50.000	51.719	-3.4	107	0.00
87 T	1,3-Dichlorobenzene	50.000	42.459	15.1	104	0.00
88 T	1,4-Dichlorobenzene	50.000	41.240	17.5	101	0.00
89 T	n-Butylbenzene	50.000	47.892	4.2	107	0.00
90 T	Hexachloroethane	50.000	45.332	9.3	104	0.00
91 T	1,2-Dichlorobenzene	50.000	43.472	13.1	104	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	44.183	11.6	106	0.00
93 T	1,2,4-Trichlorobenzene	50.000	42.908	14.2	104	0.00
94 T	Hexachlorobutadiene	50.000	42.581	14.8	107	0.00
95 T	Naphthalene	50.000	46.067	7.9	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085012.D
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Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN112224

Quant Time: Nov 23 02:57:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
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	42.932	14.1	100	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.: P5088 SAS No.: P5088 SDG No.: P5088

Instrument ID: MSVOA_N Calibration Date/Time: 12/04/2024 09:51

Lab File ID: VN085084.D Init. Calib. Date(s): 11/22/2024 11/22/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:22 13:45

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.589	0.564		-4.24	20
1,1-Dichloroethene	0.531	0.531		0	20
Methylene Chloride	0.633	0.594		-6.16	20
trans-1,2-Dichloroethene	0.558	0.546		-2.15	20
1,1-Dichloroethane	1.078	1.062	0.1	-1.48	20
Carbon Tetrachloride	0.527	0.593		12.52	20
cis-1,2-Dichloroethene	0.673	0.664		-1.34	20
1,1,1-Trichloroethane	1.036	1.044		0.77	20
Trichloroethene	0.336	0.364		8.33	20
1,1,2-Trichloroethane	0.319	0.346		8.46	20
Tetrachloroethene	0.337	0.367		8.9	20
1,2,3-Trichloropropane	0.909	1.016		11.77	20
1,2-Dichloroethane-d4	0.712	0.711		-0.14	20
Dibromofluoromethane	0.337	0.373		10.68	20
Toluene-d8	1.208	1.300		7.62	20
4-Bromofluorobenzene	0.452	0.491		8.63	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\VN120424\
 Data File : VN085084.D
 Acq On : 04 Dec 2024 09:51
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Quant Time: Dec 04 22:00:50 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 23 02:54:10 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 12/05/2024
 Supervised By : Mahesh Dadoda 12/05/2024

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	178528	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	279794	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	245149	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	120683	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	126983	49.934	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.860%
35) Dibromofluoromethane	8.165	113	104367	55.313	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	110.620%
50) Toluene-d8	10.565	98	363771	53.797	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	107.600%
62) 4-Bromofluorobenzene	12.847	95	137465	54.361	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	108.720%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	89076	44.125	ug/l	97
3) Chloromethane	2.359	50	97825	41.781	ug/l	96
4) Vinyl Chloride	2.512	62	100732	47.874	ug/l	99
5) Bromomethane	2.954	94	67647	57.360	ug/l	93
6) Chloroethane	3.124	64	64638	45.576	ug/l	98
7) Trichlorofluoromethane	3.501	101	174828	48.844	ug/l	95
8) Diethyl Ether	3.959	74	58907	48.354	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.377	101	103159	50.816	ug/l	99
10) Methyl Iodide	4.583	142	138221	51.437	ug/l	93
11) Tert butyl alcohol	5.506	59	64896	190.969	ug/l	97
12) 1,1-Dichloroethene	4.342	96	94728	49.991	ug/l	98
13) Acrolein	4.177	56	59453	262.190	ug/l	93
14) Allyl chloride	5.024	41	134411	42.077	ug/l	95
15) Acrylonitrile	5.706	53	223460	232.263	ug/l	99
16) Acetone	4.418	43	258487	349.014	ug/l	99
17) Carbon Disulfide	4.706	76	263601	47.130	ug/l	96
18) Methyl Acetate	5.018	43	107907	45.481	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	310729	50.189	ug/l	98
20) Methylene Chloride	5.271	84	106050	46.925	ug/l	99
21) trans-1,2-Dichloroethene	5.783	96	97476	48.883	ug/l	88
22) Diisopropyl ether	6.659	45	315943	49.142	ug/l	98
23) Vinyl Acetate	6.594	43	1119761	252.461	ug/l	99
24) 1,1-Dichloroethane	6.559	63	189539	49.264	ug/l	99
25) 2-Butanone	7.477	43	305406	252.224	ug/l	99
26) 2,2-Dichloropropane	7.483	77	179981	50.098	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	118539	49.311	ug/l	99
28) Bromochloromethane	7.812	49	73222	50.417	ug/l	96
29) Tetrahydrofuran	7.836	42	180617	239.866	ug/l	99
30) Chloroform	7.959	83	198245	48.440	ug/l	97
31) Cyclohexane	8.253	56	163355	48.224	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	186455	50.416	ug/l	98
36) 1,1-Dichloropropene	8.365	75	138381	54.146	ug/l	98
37) Ethyl Acetate	7.559	43	122367	52.667	ug/l	97
38) Carbon Tetrachloride	8.359	117	165811	56.206	ug/l	94
39) Methylcyclohexane	9.600	83	155396	58.513	ug/l	95
40) Benzene	8.600	78	431469	53.378	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120424\
 Data File : VN085084.D
 Acq On : 04 Dec 2024 09:51
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/05/2024
 Supervised By :Mahesh Dadoda 12/05/2024

Quant Time: Dec 04 22:00:50 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 23 02:54:10 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	67085	52.149	ug/l	98
42) 1,2-Dichloroethane	8.665	62	145727	52.698	ug/l	100
43) Isopropyl Acetate	8.683	43	203017	42.066	ug/l	97
44) Trichloroethene	9.347	130	101855	54.222	ug/l	92
45) 1,2-Dichloropropane	9.618	63	105861	53.172	ug/l	97
46) Dibromomethane	9.706	93	73055	52.808	ug/l	98
47) Bromodichloromethane	9.883	83	157695	53.783	ug/l	98
48) Methyl methacrylate	9.677	41	97005	54.015	ug/l	98
49) 1,4-Dioxane	9.688	88	32944	1057.785	ug/l	97
51) 4-Methyl-2-Pentanone	10.441	43	600232	272.294	ug/l	99
52) Toluene	10.630	92	268984	56.211	ug/l	98
53) t-1,3-Dichloropropene	10.835	75	158019	53.756	ug/l	100
54) cis-1,3-Dichloropropene	10.306	75	169242	54.270	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	96875	54.351	ug/l	97
56) Ethyl methacrylate	10.871	69	150149	57.649	ug/l	98
57) 1,3-Dichloropropane	11.159	76	168422	53.689	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.153	63	367974	288.021	ug/l	99
59) 2-Hexanone	11.188	43	455418	276.238	ug/l	100
60) Dibromochloromethane	11.353	129	116398	53.434	ug/l	100
61) 1,2-Dibromoethane	11.465	107	98836	53.580	ug/l	99
64) Tetrachloroethene	11.100	164	89953	54.455	ug/l	97
65) Chlorobenzene	11.888	112	287016	51.624	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	106434	54.373	ug/l	99
67) Ethyl Benzene	11.959	91	514328	57.021	ug/l	99
68) m/p-Xylenes	12.071	106	398644	116.086	ug/l	99
69) o-Xylene	12.394	106	185209	56.698	ug/l	99
70) Styrene	12.406	104	322581	59.382	ug/l	99
71) Bromoform	12.576	173	76547	52.681	ug/l #	98
73) Isopropylbenzene	12.694	105	483613	56.804	ug/l	99
74) N-amyl acetate	12.488	43	176259	50.241	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.935	83	135757	46.696	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	122611m	55.856	ug/l	
77) Bromobenzene	12.976	156	119099	51.983	ug/l	96
78) n-propylbenzene	13.029	91	578086	58.869	ug/l	99
79) 2-Chlorotoluene	13.123	91	357502	54.537	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	418290	58.550	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	47800	48.071	ug/l	92
82) 4-Chlorotoluene	13.218	91	358728	52.568	ug/l	99
83) tert-Butylbenzene	13.435	119	341552	55.565	ug/l	99
84) 1,2,4-Trimethylbenzene	13.476	105	417631	56.791	ug/l	98
85) sec-Butylbenzene	13.612	105	487048	58.655	ug/l	100
86) p-Isopropyltoluene	13.723	119	409714	59.772	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	215329	47.649	ug/l	98
88) 1,4-Dichlorobenzene	13.806	146	210804	45.711	ug/l	98
89) n-Butylbenzene	14.053	91	342277	53.694	ug/l	99
90) Hexachloroethane	14.329	117	75416	50.475	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	198575	45.857	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.717	75	24863	44.226	ug/l	95
93) 1,2,4-Trichlorobenzene	15.388	180	100085	42.543	ug/l	95
94) Hexachlorobutadiene	15.500	225	51667	47.587	ug/l	98
95) Naphthalene	15.635	128	278427	41.554	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	98804	44.016	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120424\
Data File : VN085084.D
Acq On : 04 Dec 2024 09:51
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024

Quant Time: Dec 04 22:00:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

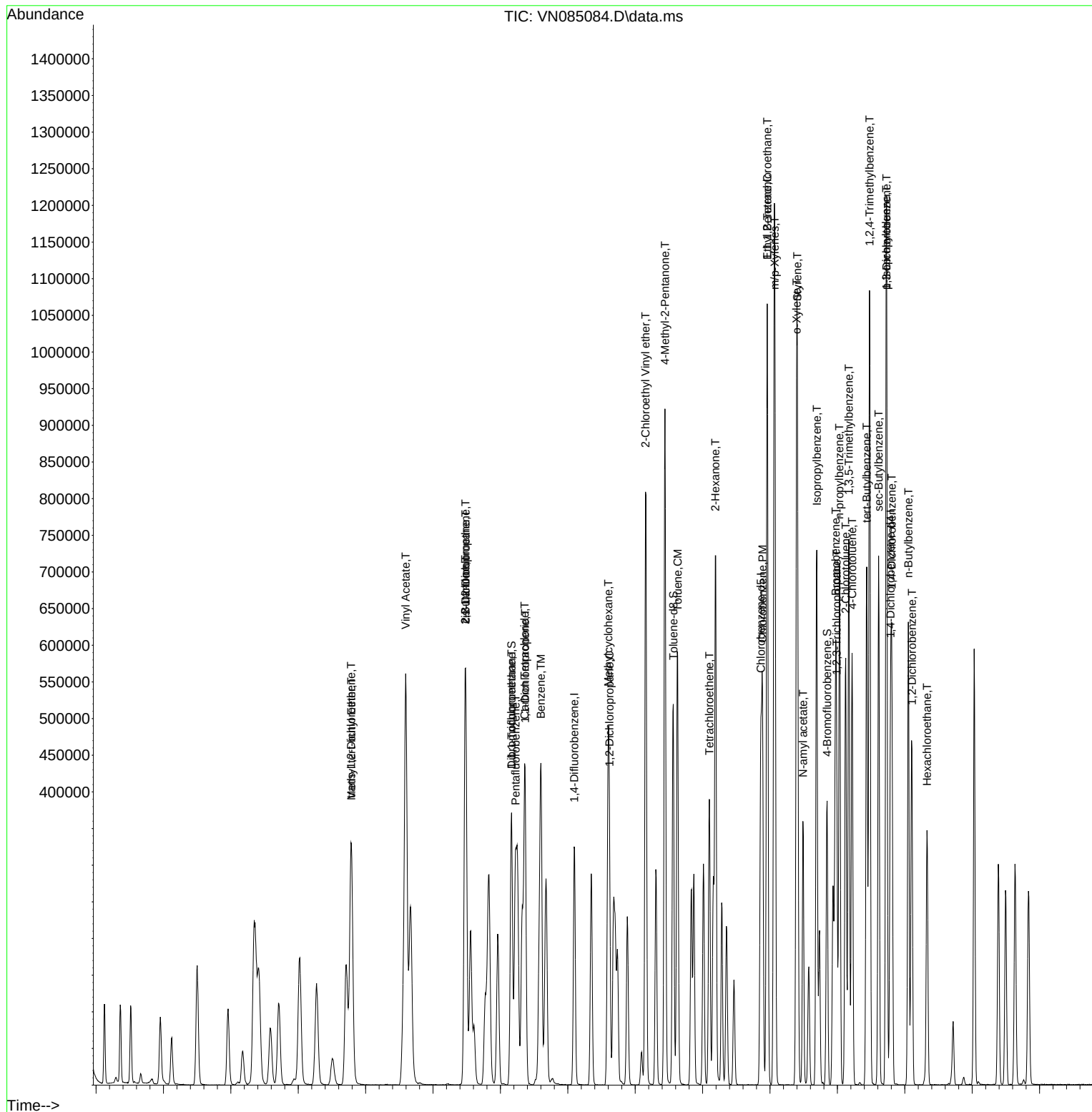
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

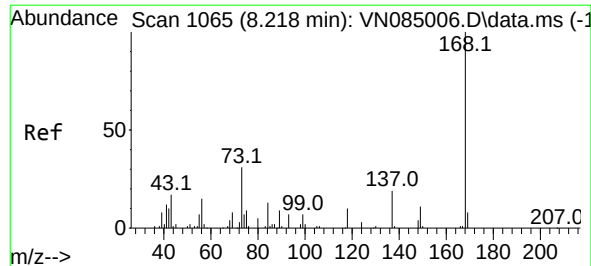
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024





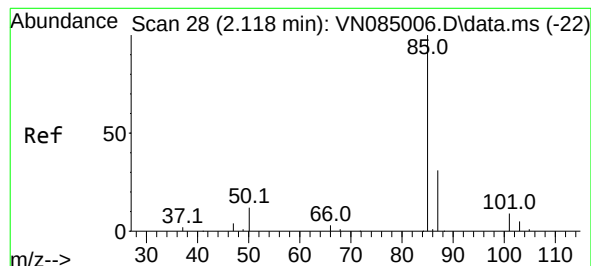
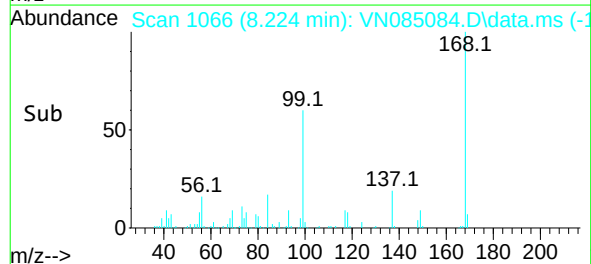
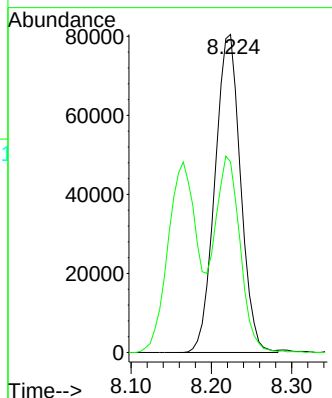
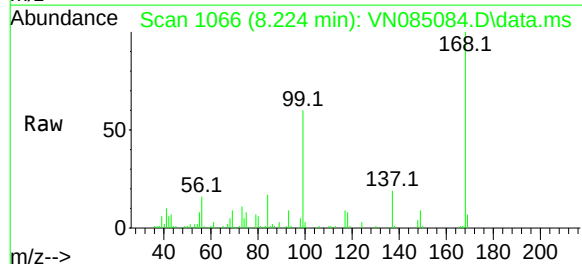
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085084.D
Acq: 04 Dec 2024 09:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 178528
Ion Ratio Lower Upper
168 100
99 59.6 51.2 76.8

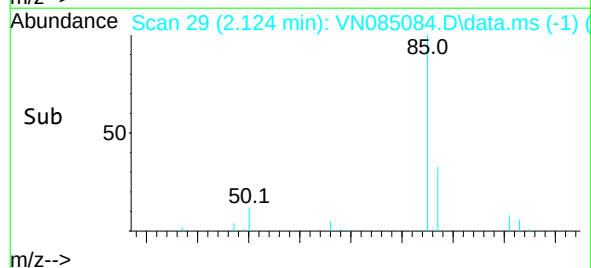
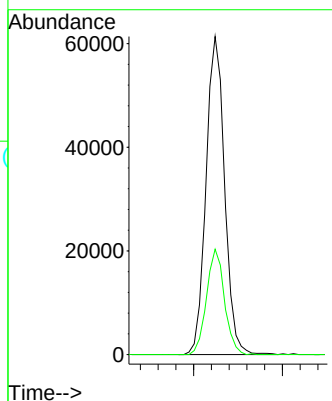
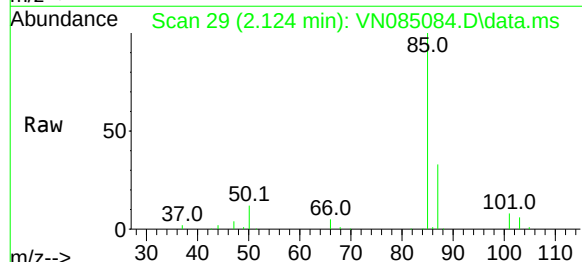
Manual Integrations
APPROVED

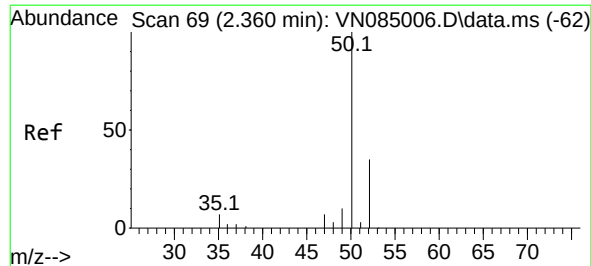
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#2
Dichlorodifluoromethane
Concen: 44.125 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.006 min
Lab File: VN085084.D
Acq: 04 Dec 2024 09:51

Tgt Ion: 85 Resp: 89076
Ion Ratio Lower Upper
85 100
87 33.1 15.7 47.1





#3

Chloromethane

Concen: 41.781 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 50 Resp: 97825

Ion Ratio Lower Upper

50 100

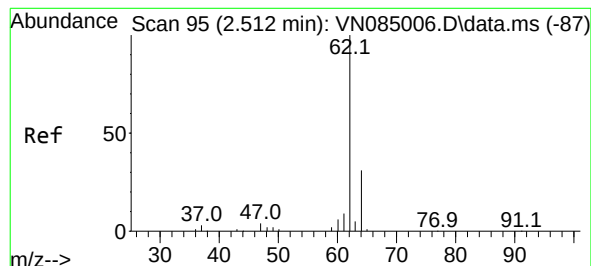
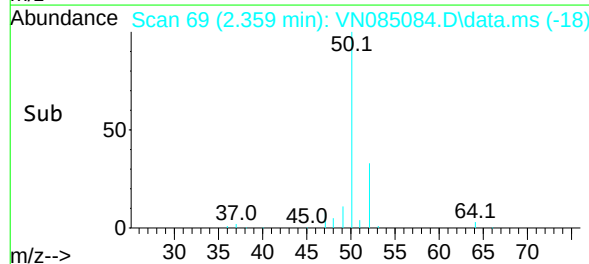
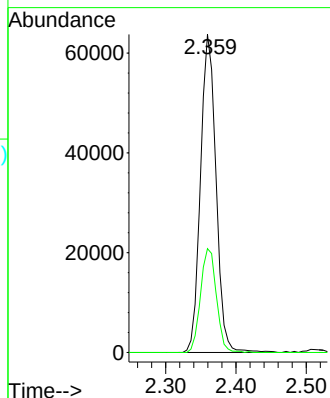
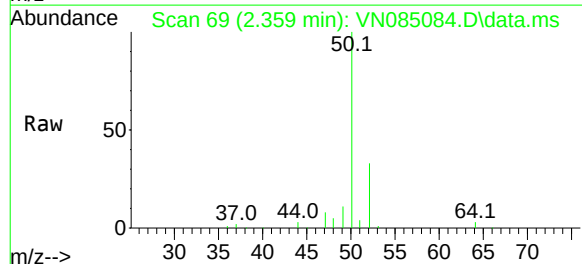
52 32.6 27.8 41.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#4

Vinyl Chloride

Concen: 47.874 ug/l

RT: 2.512 min Scan# 95

Delta R.T. -0.000 min

Lab File: VN085084.D

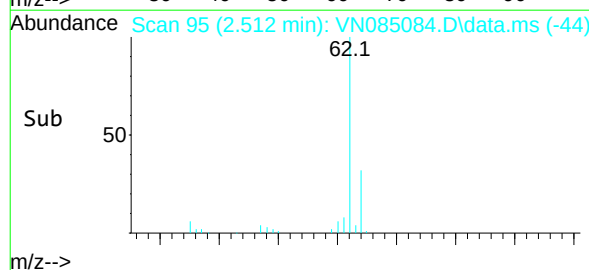
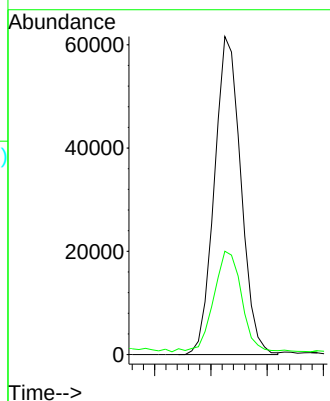
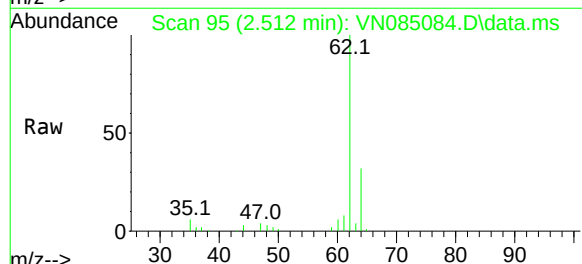
Acq: 04 Dec 2024 09:51

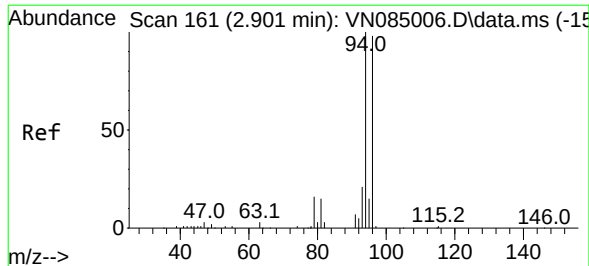
Tgt Ion: 62 Resp: 100732

Ion Ratio Lower Upper

62 100

64 31.3 24.6 36.8





#5

Bromomethane

Concen: 57.360 ug/l

RT: 2.954 min Scan# 17

Delta R.T. 0.053 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 94 Resp: 67647

Ion Ratio Lower Upper

94 100

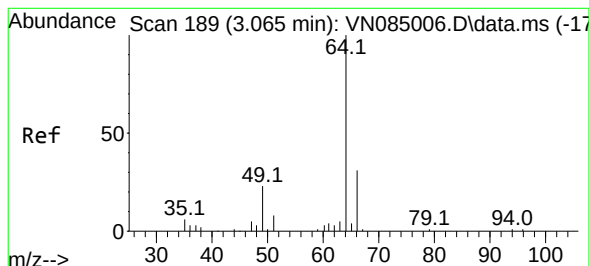
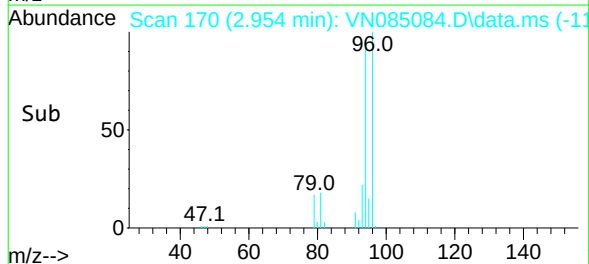
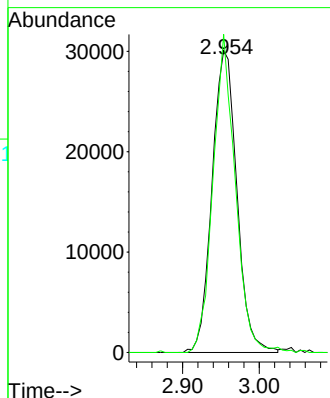
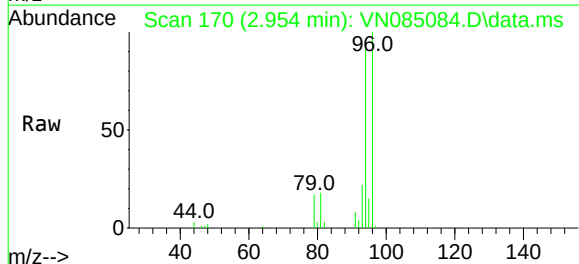
96 105.3 78.7 118.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#6

Chloroethane

Concen: 45.576 ug/l

RT: 3.124 min Scan# 199

Delta R.T. 0.059 min

Lab File: VN085084.D

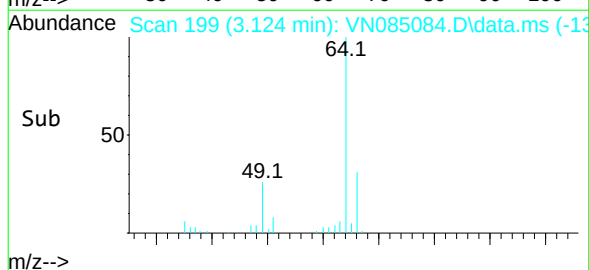
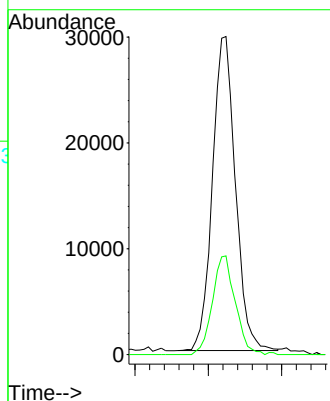
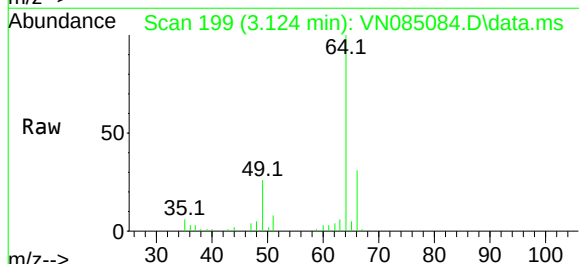
Acq: 04 Dec 2024 09:51

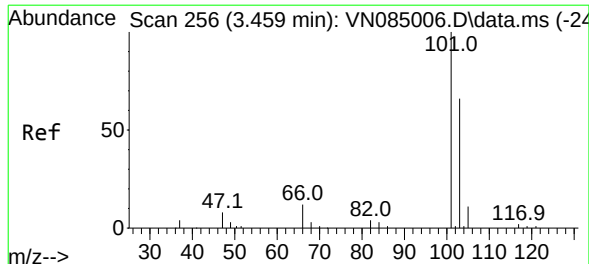
Tgt Ion: 64 Resp: 64638

Ion Ratio Lower Upper

64 100

66 31.4 24.4 36.6





#7

Trichlorofluoromethane

Concen: 48.844 ug/l

RT: 3.501 min Scan# 26

Delta R.T. 0.041 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:101 Resp: 174828

Ion Ratio Lower Upper

101 100

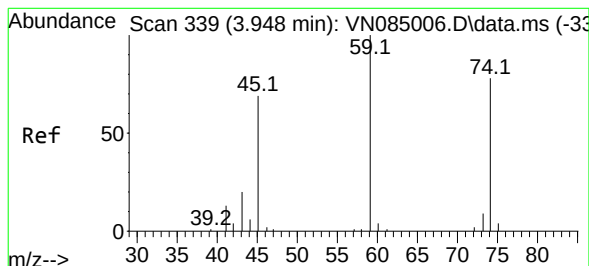
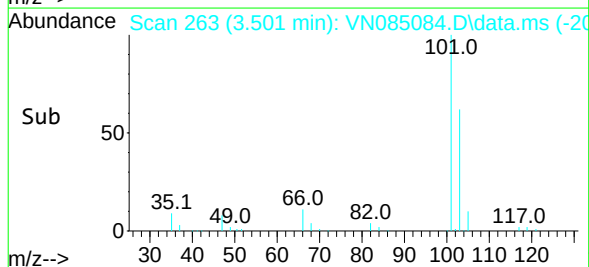
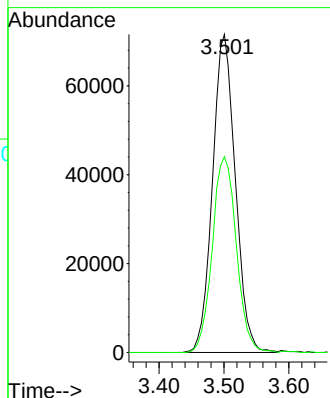
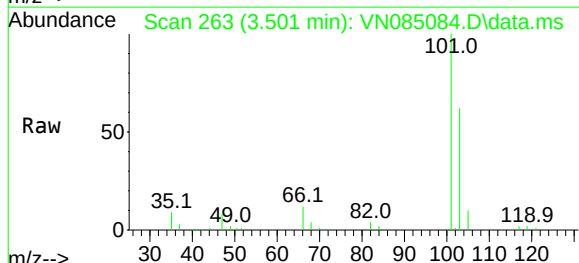
103 61.5 52.6 78.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#8

Diethyl Ether

Concen: 48.354 ug/l

RT: 3.959 min Scan# 341

Delta R.T. 0.012 min

Lab File: VN085084.D

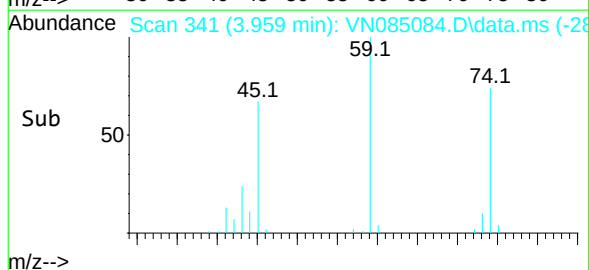
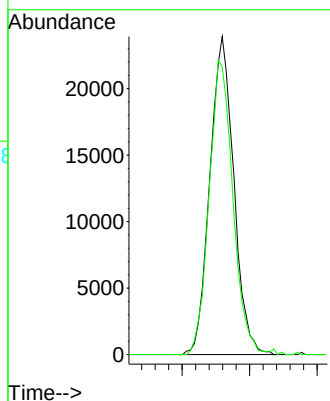
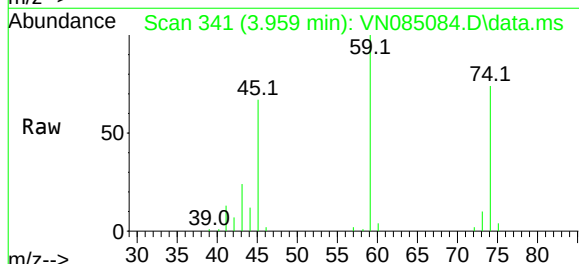
Acq: 04 Dec 2024 09:51

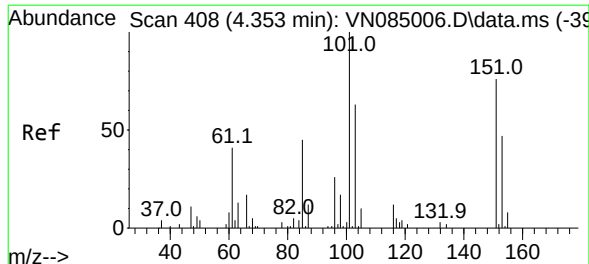
Tgt Ion: 74 Resp: 58907

Ion Ratio Lower Upper

74 100

45 92.2 46.7 140.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.816 ug/l
RT: 4.377 min Scan# 411
Delta R.T. 0.024 min
Lab File: VN085084.D
Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

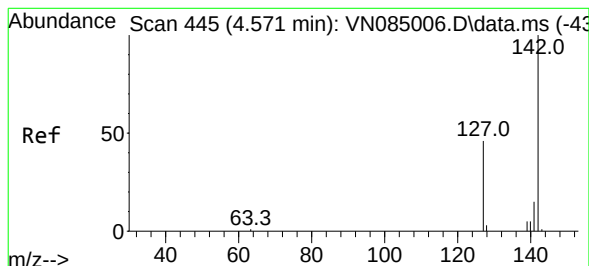
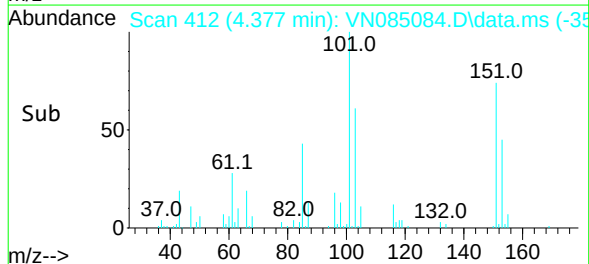
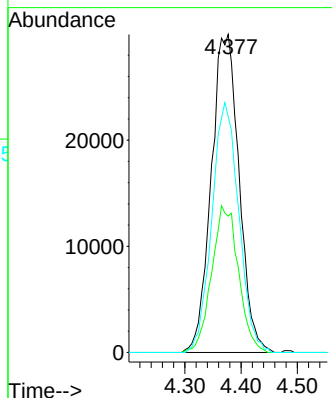
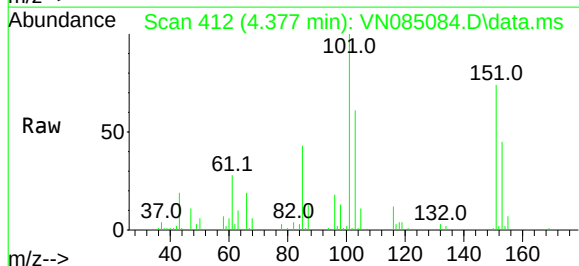
ClientSampleId :

VSTDCCC050

Tgt Ion	101	Resp	103159
Ion Ratio	Lower	Upper	
101	100		
85	44.3	36.9	55.3
151	75.9	60.8	91.2

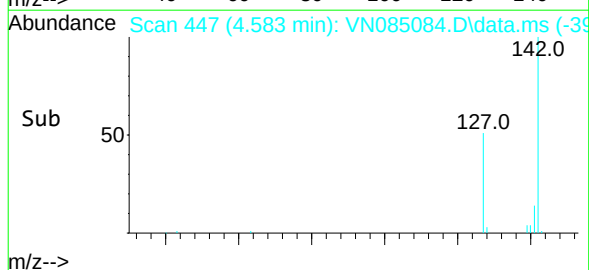
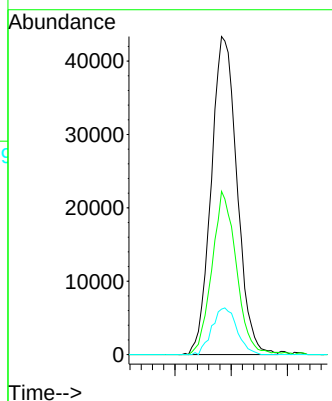
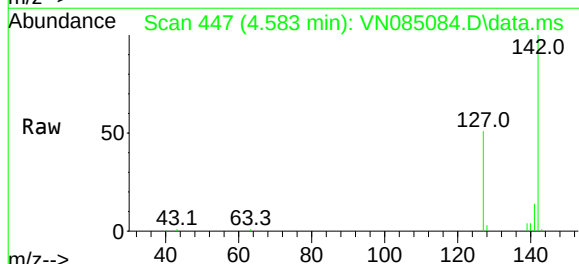
Manual Integrations
APPROVED

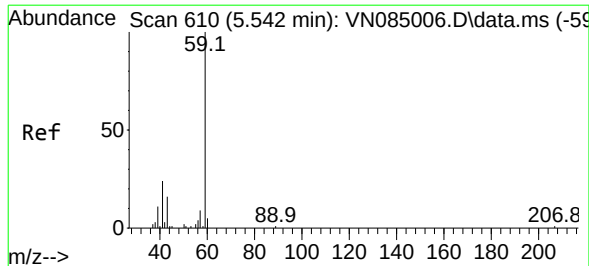
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#10
Methyl Iodide
Concen: 51.437 ug/l
RT: 4.583 min Scan# 447
Delta R.T. 0.012 min
Lab File: VN085084.D
Acq: 04 Dec 2024 09:51

Tgt Ion	142	Resp	138221
Ion Ratio	Lower	Upper	
142	100		
127	51.3	36.6	54.8
141	14.3	12.2	18.4





#11

Tert butyl alcohol

Concen: 190.969 ug/l

RT: 5.506 min Scan# 60

Delta R.T. -0.035 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 59 Resp: 64896

Ion Ratio Lower Upper

59 100

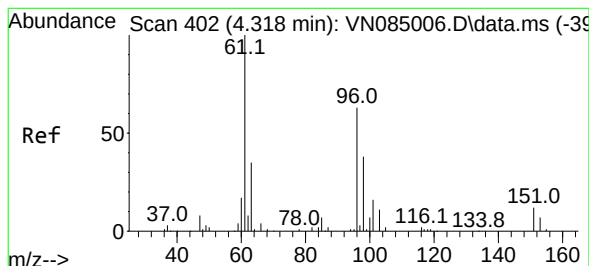
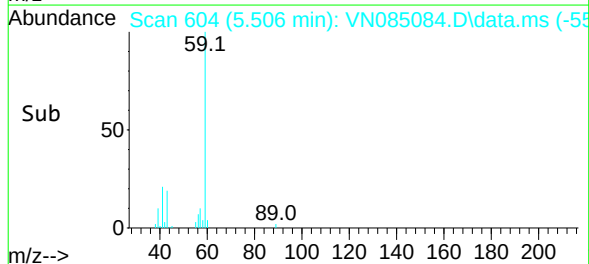
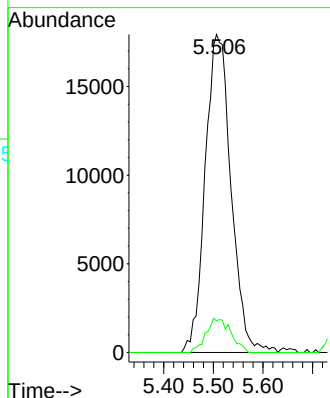
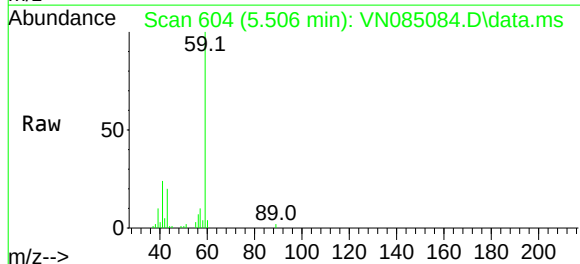
57 10.3 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#12

1,1-Dichloroethene

Concen: 49.991 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.023 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

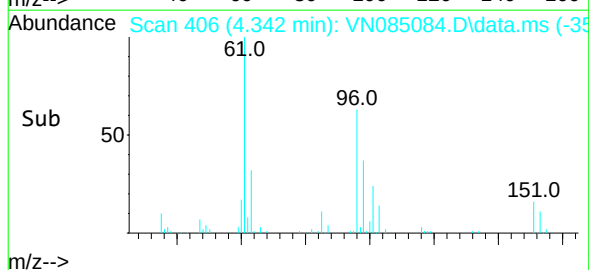
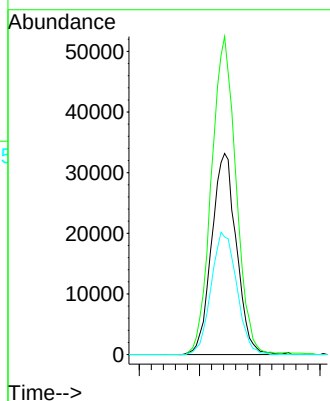
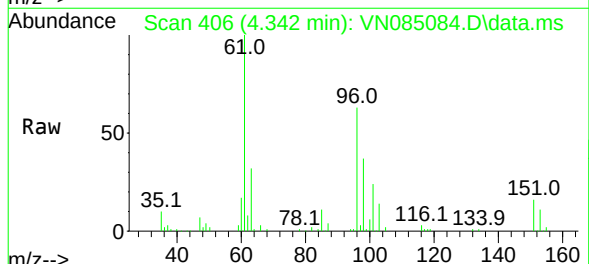
Tgt Ion: 96 Resp: 94728

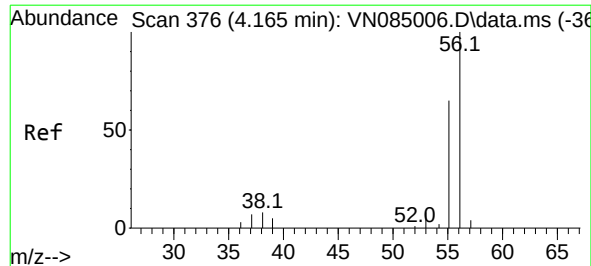
Ion Ratio Lower Upper

96 100

61 158.2 127.8 191.8

98 58.5 49.2 73.8





#13

Acrolein

Concen: 262.190 ug/l

RT: 4.177 min Scan# 37

Delta R.T. 0.012 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 59453

Ion Ratio Lower Upper

56 100

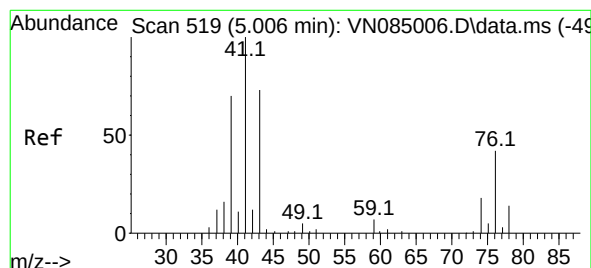
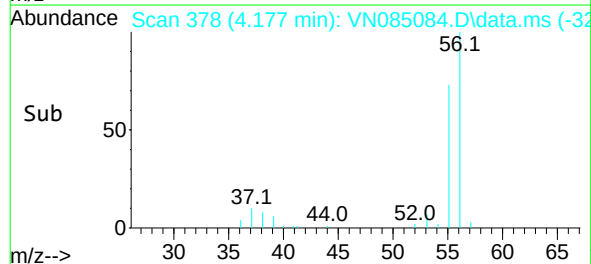
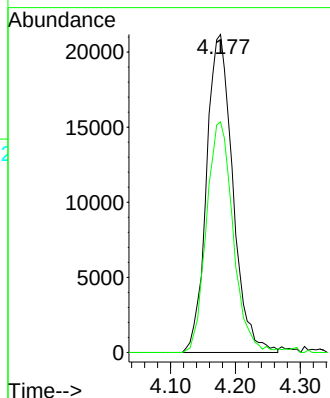
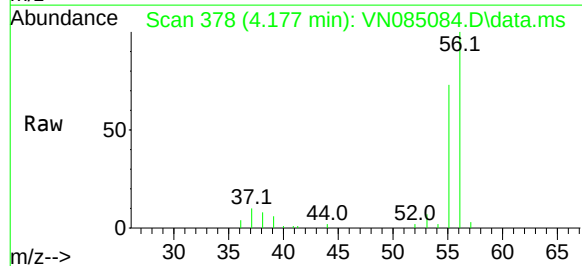
55 73.5 54.5 81.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#14

Allyl chloride

Concen: 42.077 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.018 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

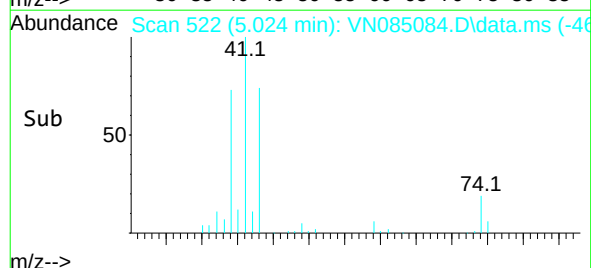
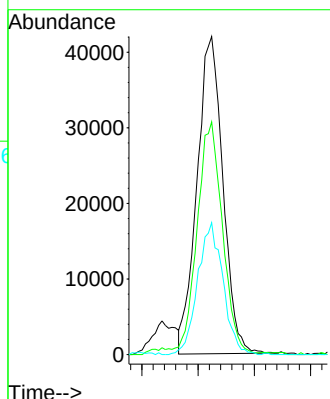
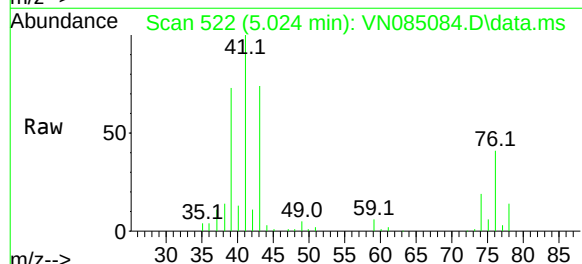
Tgt Ion: 41 Resp: 134411

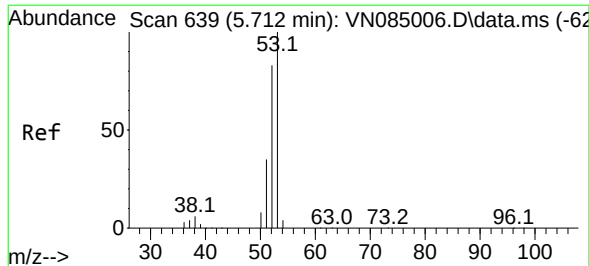
Ion Ratio Lower Upper

41 100

39 70.9 53.8 80.8

76 40.5 29.3 43.9





#15

Acrylonitrile

Concen: 232.263 ug/l

RT: 5.706 min Scan# 63

Delta R.T. -0.006 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

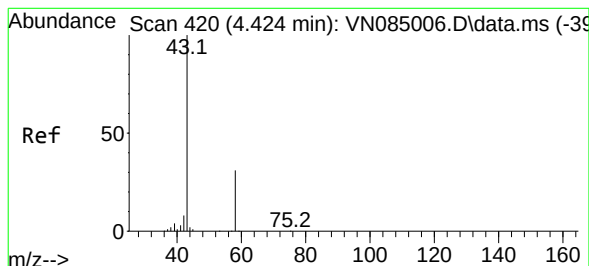
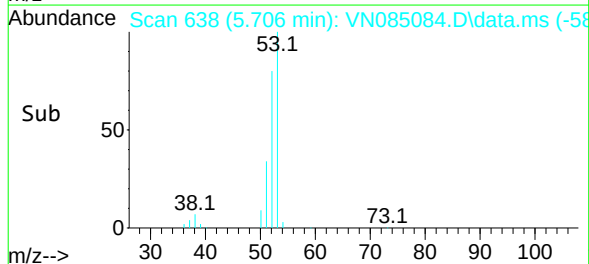
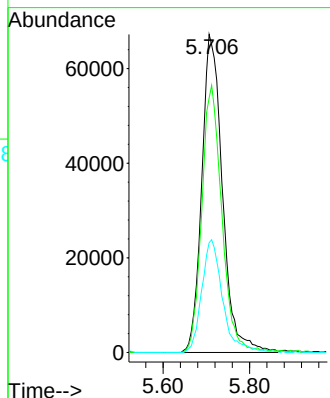
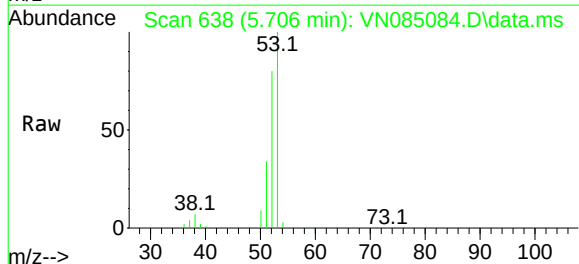
ClientSampleId :

VSTDCCC050

Tgt Ion:	53	Resp:	223460
Ion	Ratio	Lower	Upper
53	100		
52	81.4	65.5	98.3
51	35.9	28.4	42.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#16

Acetone

Concen: 349.014 ug/l

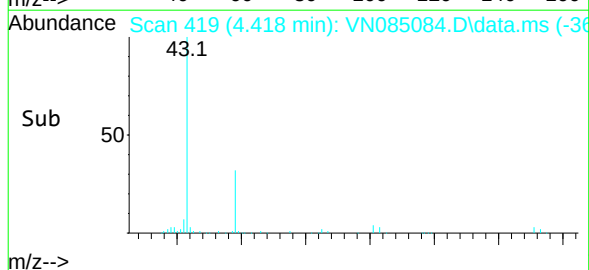
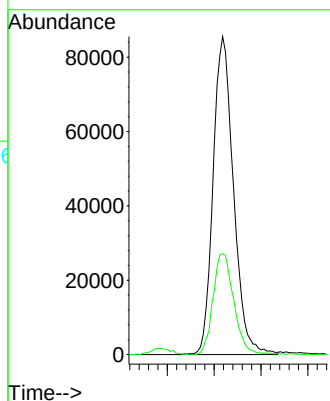
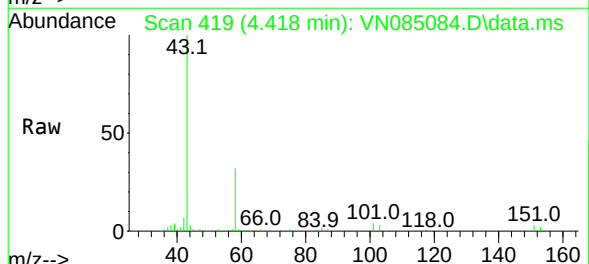
RT: 4.418 min Scan# 419

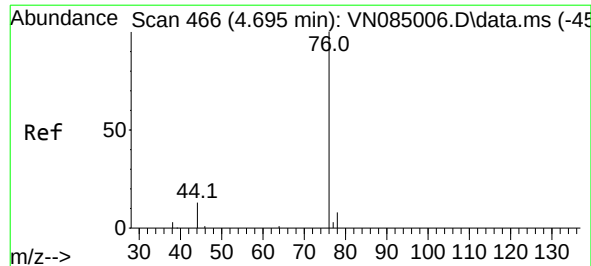
Delta R.T. -0.006 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Tgt Ion:	43	Resp:	258487
Ion	Ratio	Lower	Upper
43	100		
58	31.4	25.4	38.2





#17

Carbon Disulfide

Concen: 47.130 ug/l

RT: 4.706 min Scan# 466

Delta R.T. 0.012 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 263601

Ion Ratio Lower Upper

76 100

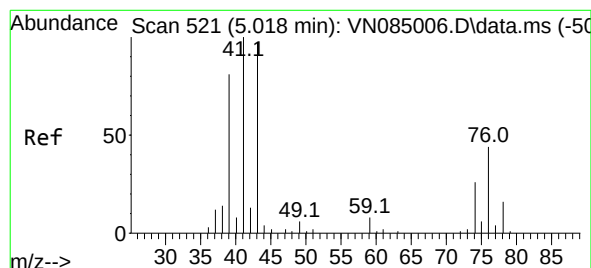
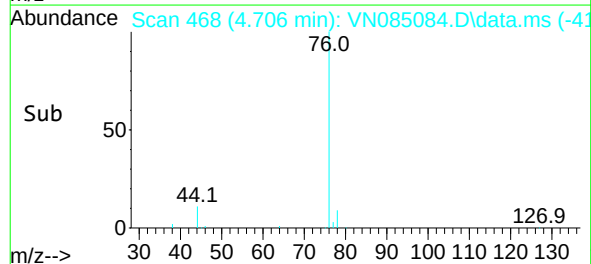
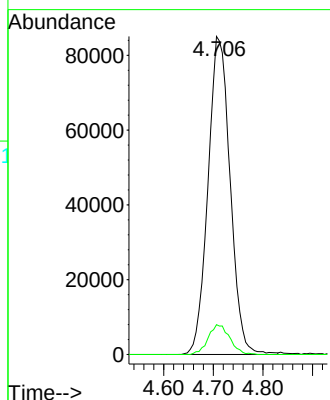
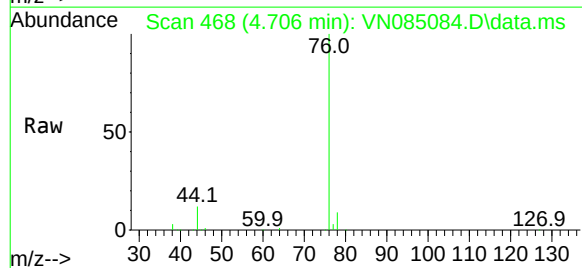
78 9.4 6.5 9.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#18

Methyl Acetate

Concen: 45.481 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN085084.D

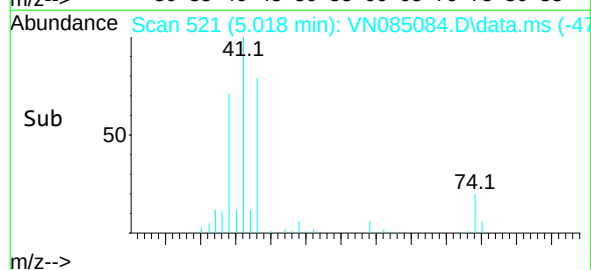
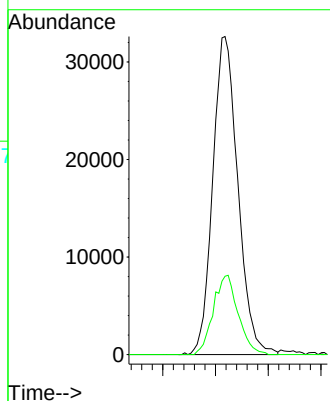
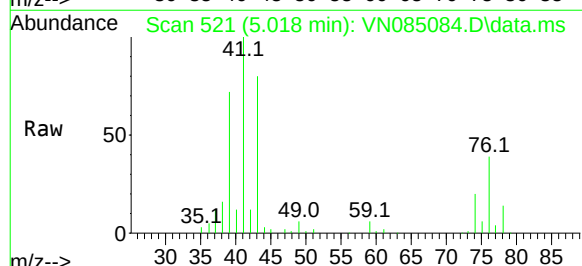
Acq: 04 Dec 2024 09:51

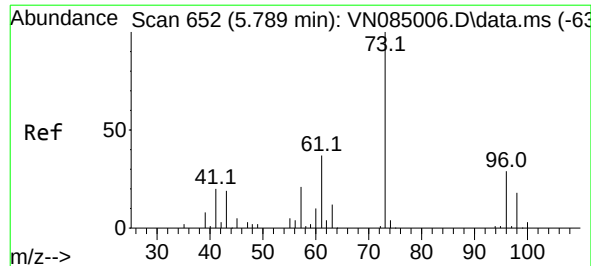
Tgt Ion: 43 Resp: 107907

Ion Ratio Lower Upper

43 100

74 24.6 20.1 30.1





#19

Methyl tert-butyl Ether

Concen: 50.189 ug/l

RT: 5.789 min Scan# 65

Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 73 Resp: 310729

Ion Ratio Lower Upper

73 100

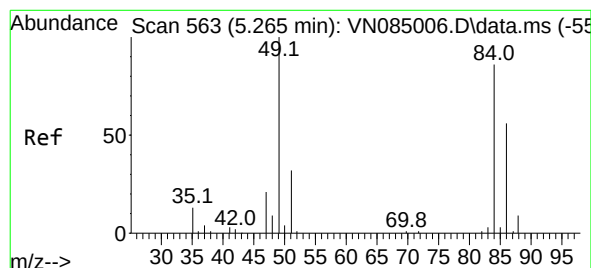
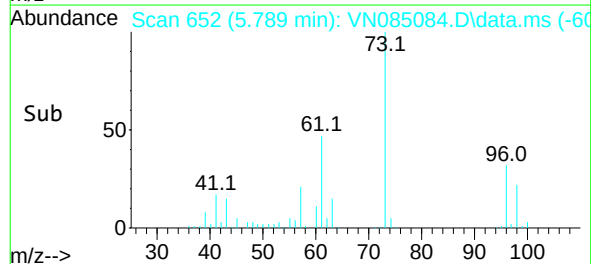
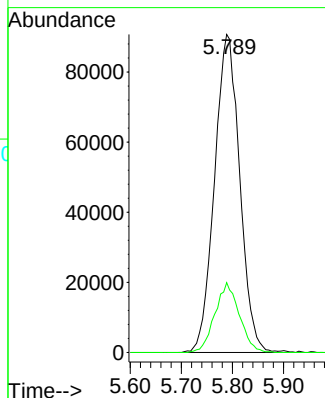
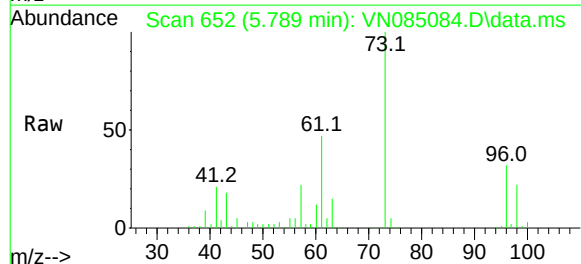
57 22.0 17.0 25.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#20

Methylene Chloride

Concen: 46.925 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.006 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Tgt Ion: 84 Resp: 106050

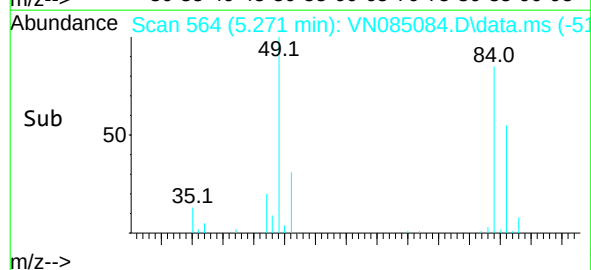
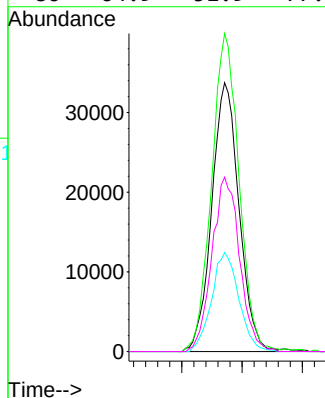
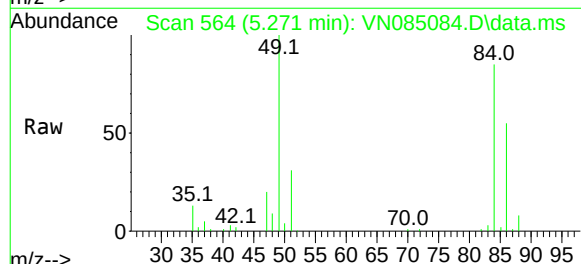
Ion Ratio Lower Upper

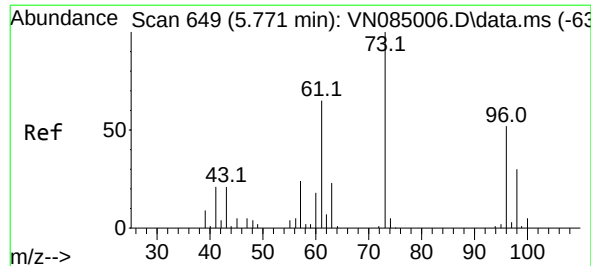
84 100

49 118.3 92.7 139.1

51 36.8 29.4 44.2

86 64.9 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 48.883 ug/l

RT: 5.783 min Scan# 65

Delta R.T. 0.012 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 96 Resp: 97476

Ion Ratio Lower Upper

96 100

61 140.8 100.7 151.1

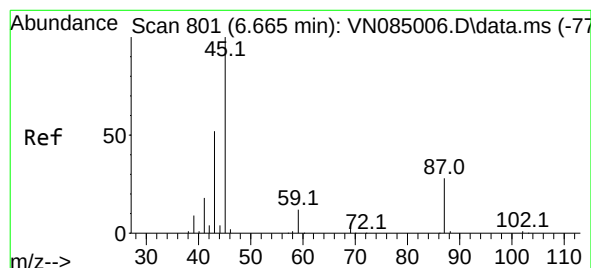
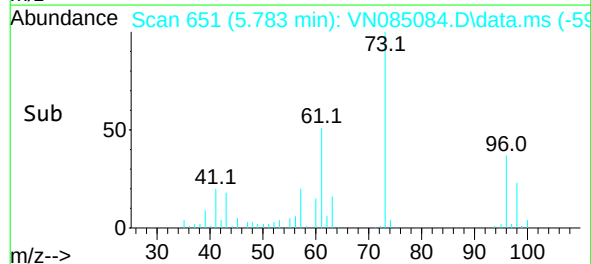
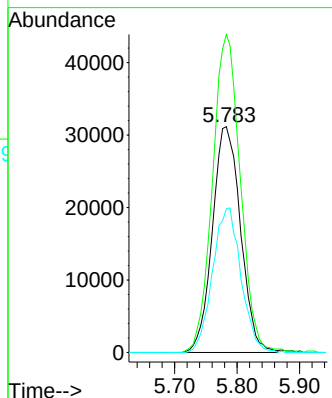
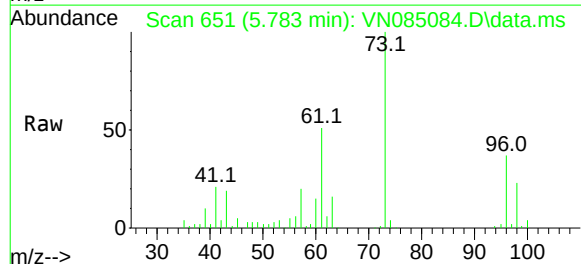
98 63.6 45.8 68.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#22

Diisopropyl ether

Concen: 49.142 ug/l

RT: 6.659 min Scan# 800

Delta R.T. -0.006 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Tgt Ion: 45 Resp: 315943

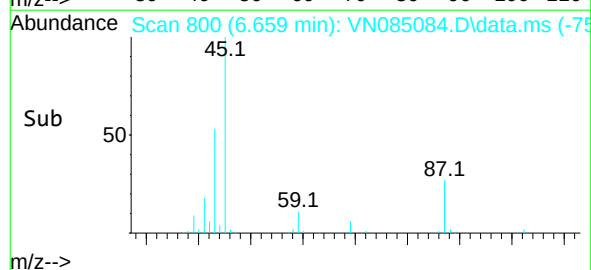
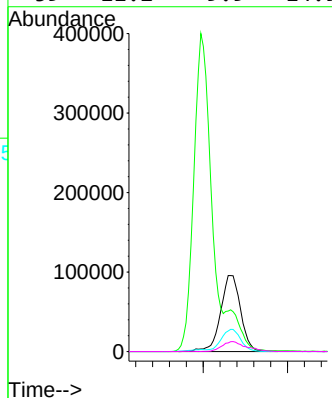
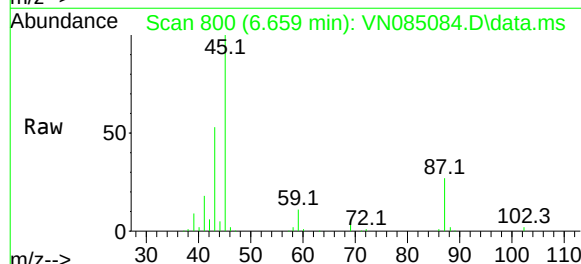
Ion Ratio Lower Upper

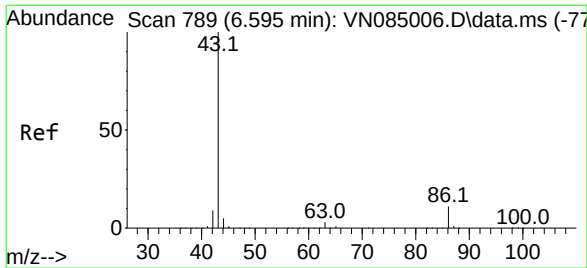
45 100

43 52.4 42.7 64.1

87 27.1 22.6 34.0

59 11.2 9.9 14.9





#23

Vinyl Acetate

Concen: 252.461 ug/l

RT: 6.594 min Scan# 789

Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 1119761

Ion Ratio Lower Upper

43 100

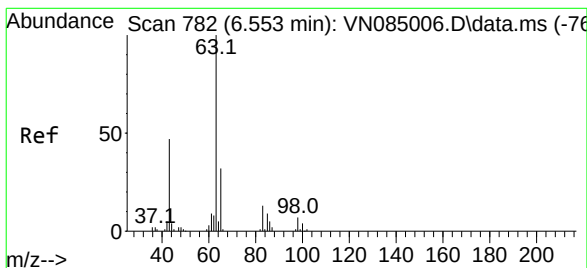
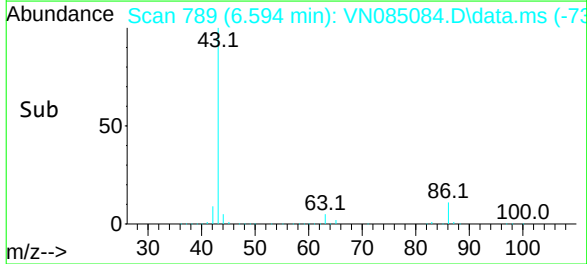
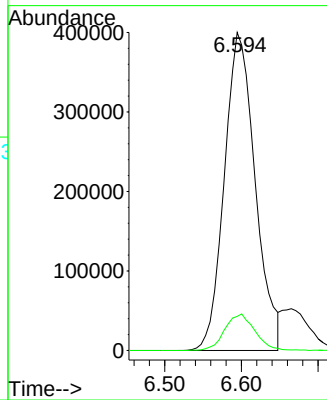
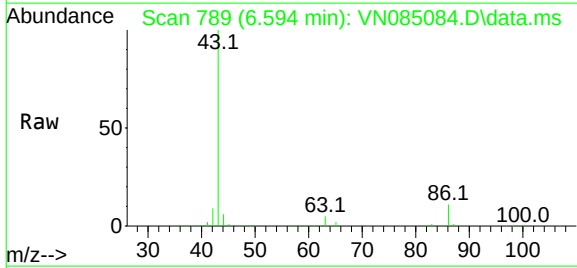
86 10.7 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#24

1,1-Dichloroethane

Concen: 49.264 ug/l

RT: 6.559 min Scan# 783

Delta R.T. 0.006 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

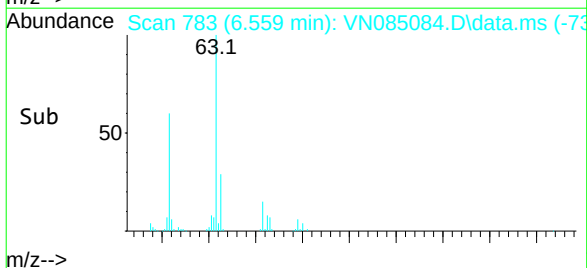
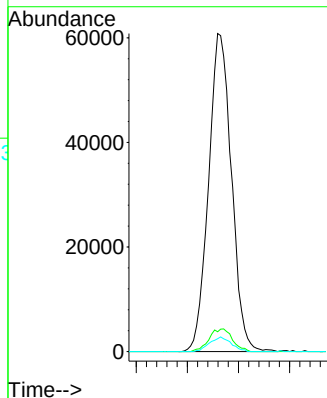
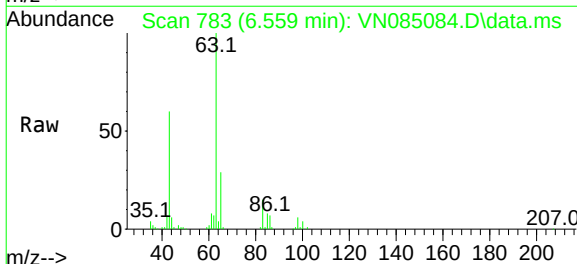
Tgt Ion: 63 Resp: 189539

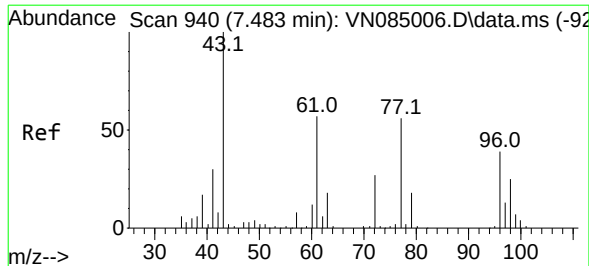
Ion Ratio Lower Upper

63 100

98 6.2 3.3 9.8

100 4.1 2.2 6.6





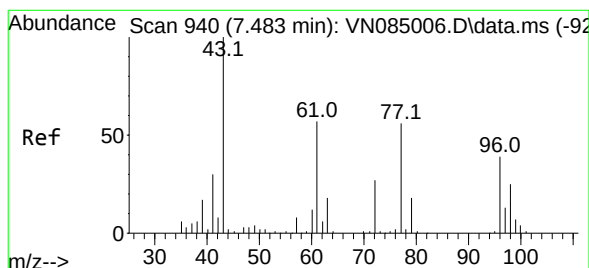
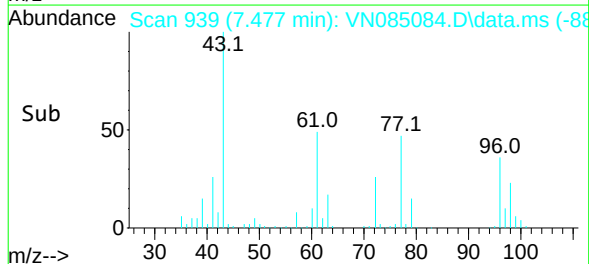
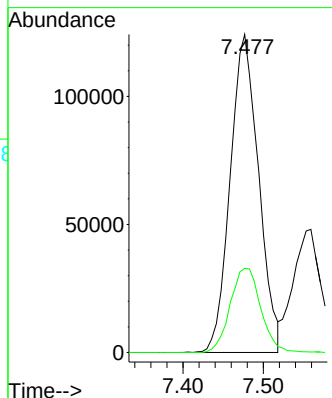
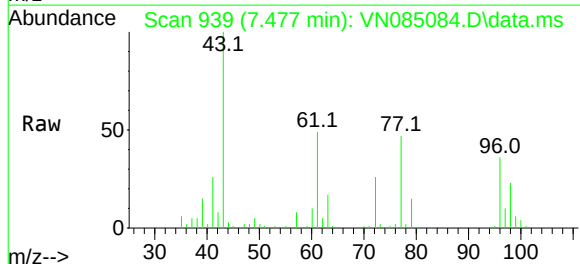
#25
2-Butanone
Concen: 252.224 ug/l
RT: 7.477 min Scan# 931
Delta R.T. -0.006 min
Lab File: VN085084.D
Acq: 04 Dec 2024 09:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 305406
Ion Ratio Lower Upper
43 100
72 26.4 21.4 32.0

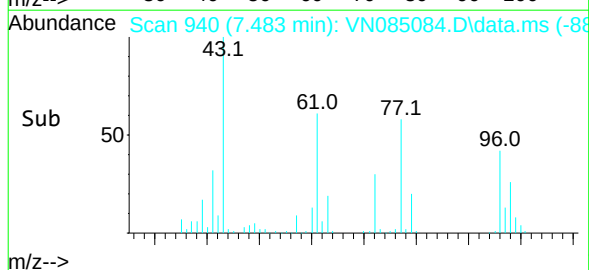
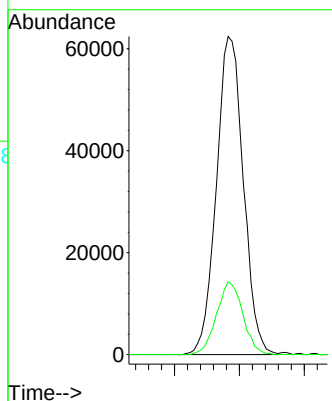
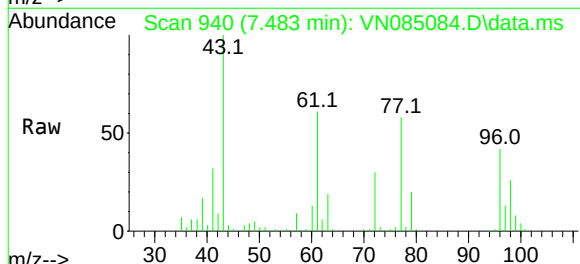
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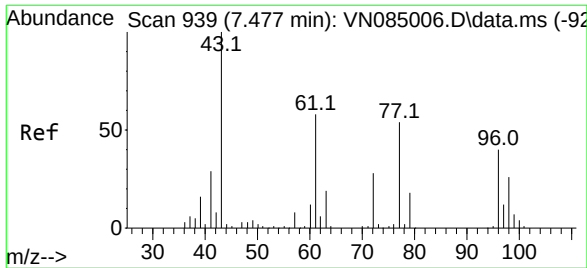
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#26
2,2-Dichloropropane
Concen: 50.098 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN085084.D
Acq: 04 Dec 2024 09:51

Tgt Ion: 77 Resp: 179981
Ion Ratio Lower Upper
77 100
97 22.3 10.9 32.7





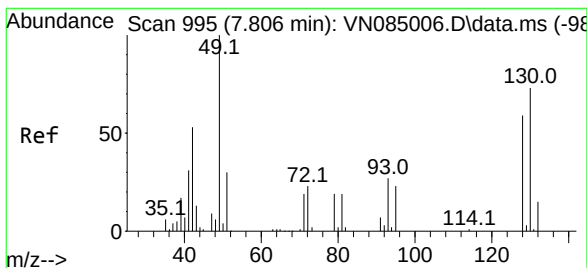
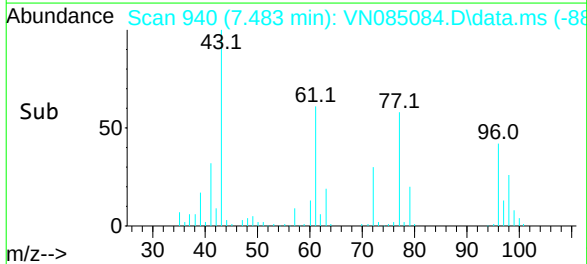
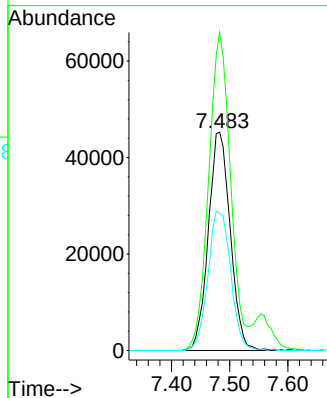
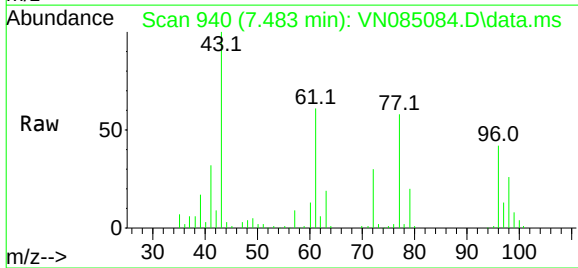
#27
cis-1,2-Dichloroethene
Concen: 49.311 ug/l
RT: 7.483 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085084.D
Acq: 04 Dec 2024 09:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 118539
Ion Ratio Lower Upper
96 100
61 144.7 0.0 291.6
98 66.3 0.0 129.8

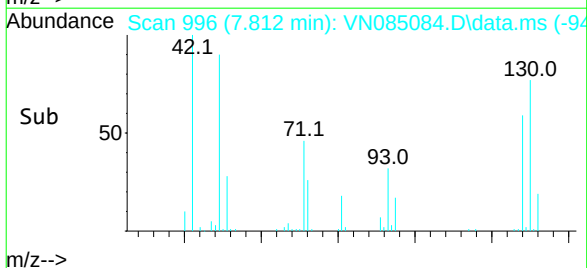
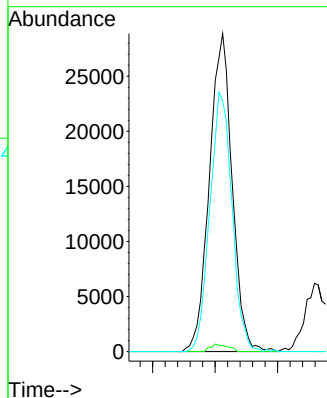
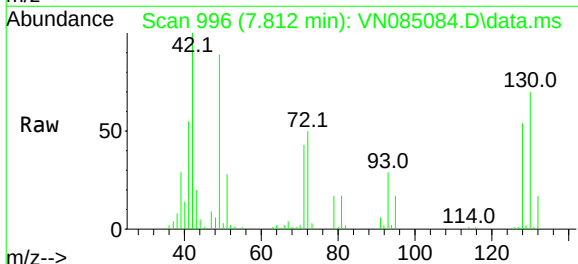
Manual Integrations
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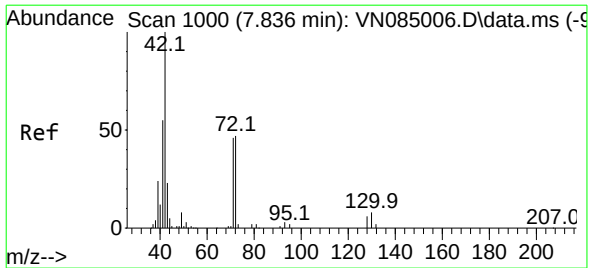
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#28
Bromochloromethane
Concen: 50.417 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN085084.D
Acq: 04 Dec 2024 09:51

Tgt Ion: 49 Resp: 73222
Ion Ratio Lower Upper
49 100
129 1.8 0.0 4.0
130 79.1 60.6 90.8





#29

Tetrahydrofuran

Concen: 239.866 ug/l

RT: 7.836 min Scan# 10

Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 42 Resp: 180617

Ion Ratio Lower Upper

42 100

72 46.9 37.0 55.4

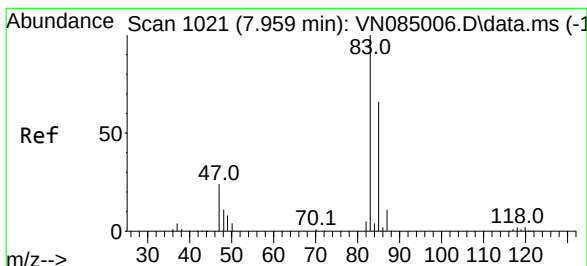
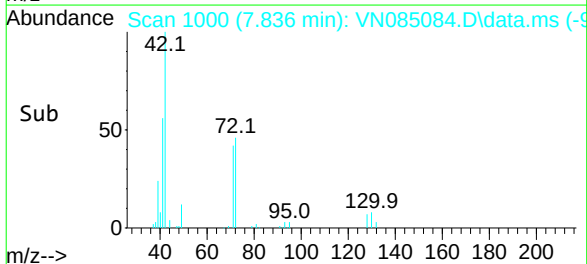
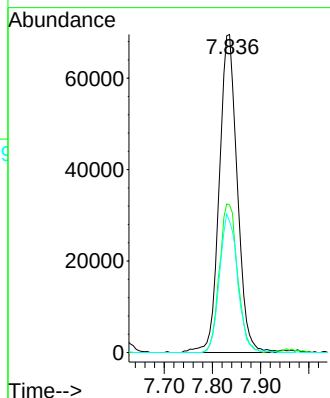
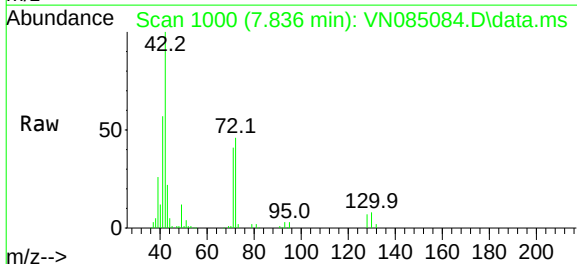
71 43.4 35.0 52.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#30

Chloroform

Concen: 48.440 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. -0.000 min

Lab File: VN085084.D

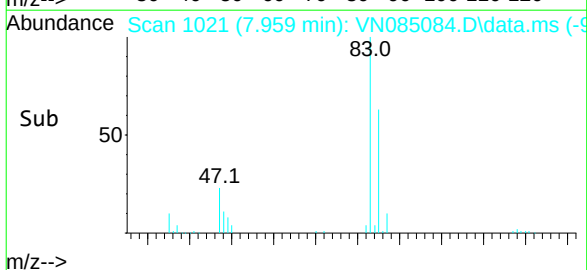
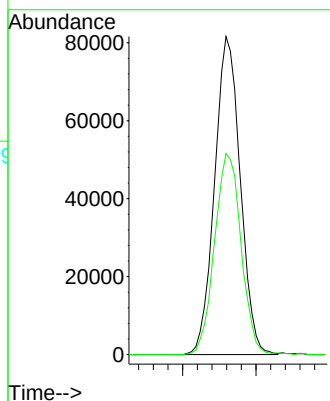
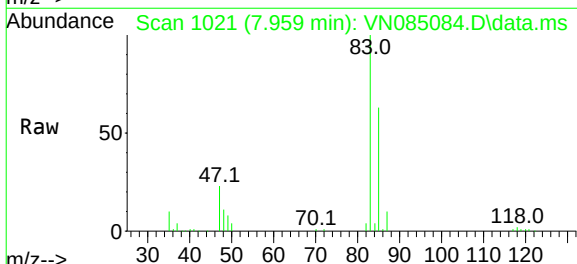
Acq: 04 Dec 2024 09:51

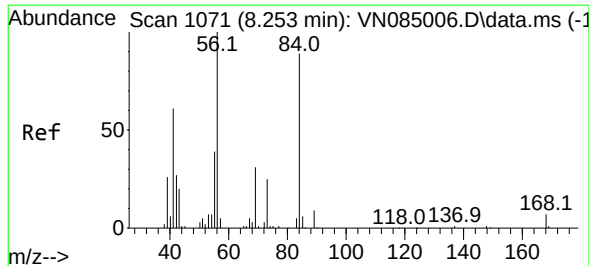
Tgt Ion: 83 Resp: 198245

Ion Ratio Lower Upper

83 100

85 63.2 52.6 78.8





#31

Cyclohexane

Concen: 48.224 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 163355

Ion Ratio Lower Upper

56 100

69 31.7 24.6 36.8

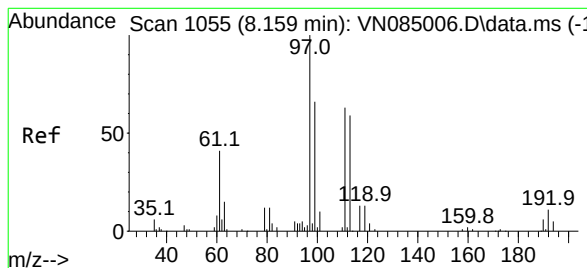
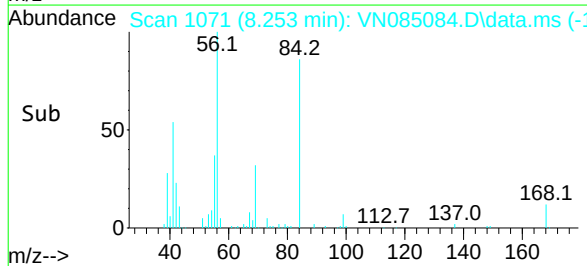
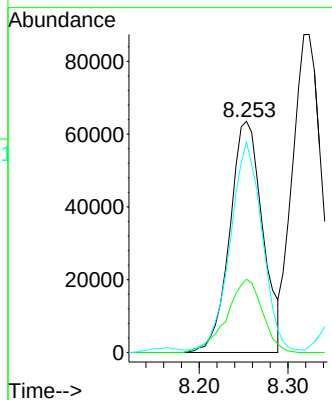
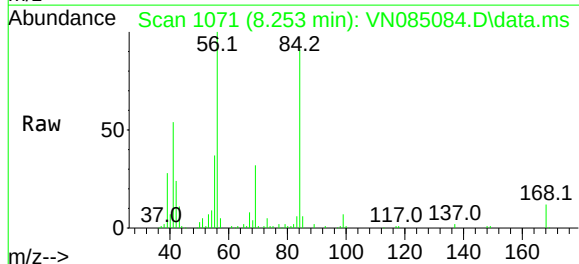
84 89.7 71.4 107.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#32

1,1,1-Trichloroethane

Concen: 50.416 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

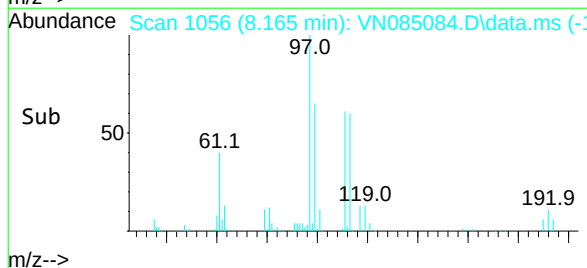
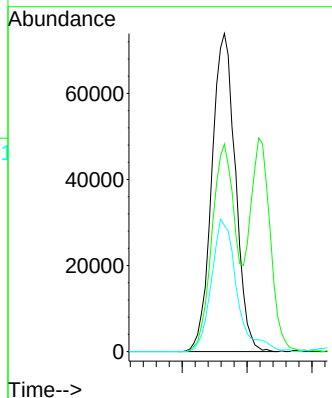
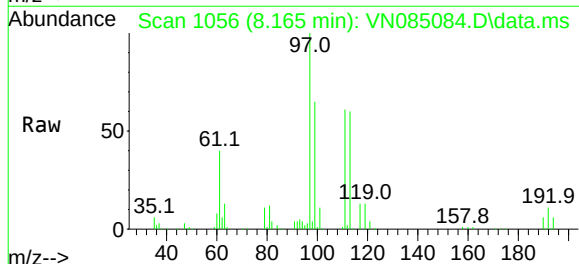
Tgt Ion: 97 Resp: 186455

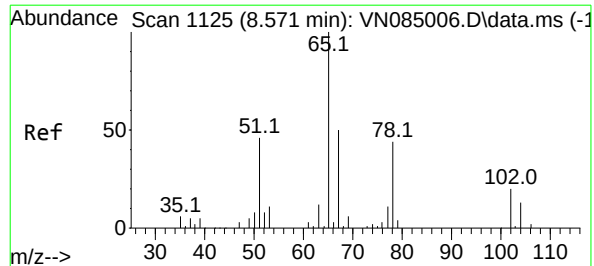
Ion Ratio Lower Upper

97 100

99 66.6 51.0 76.4

61 44.8 36.2 54.2





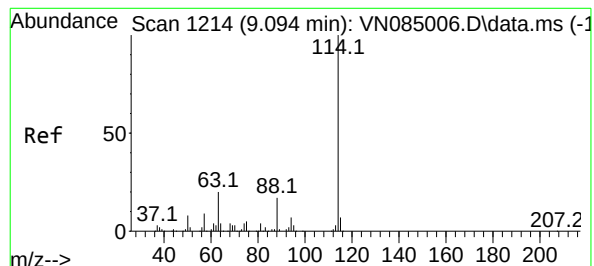
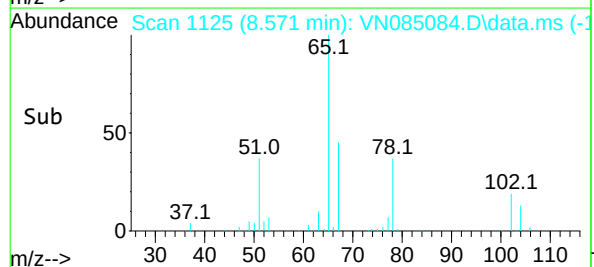
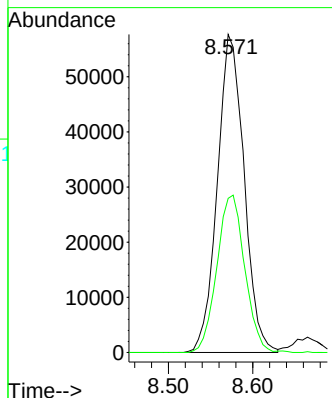
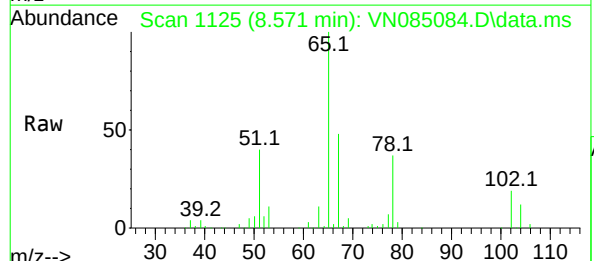
#33
1,2-Dichloroethane-d4
Concen: 49.934 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. -0.000 min
Lab File: VN085084.D
Acq: 04 Dec 2024 09:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 126983
Ion Ratio Lower Upper
65 100
67 51.6 0.0 105.0

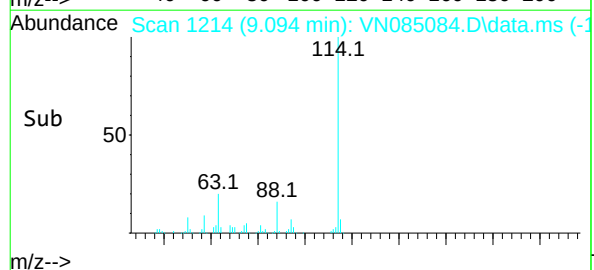
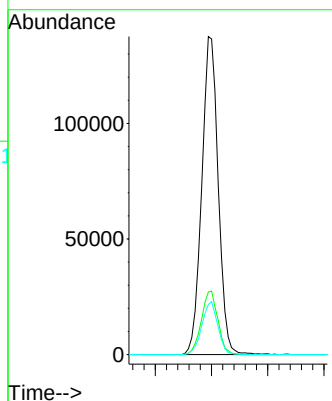
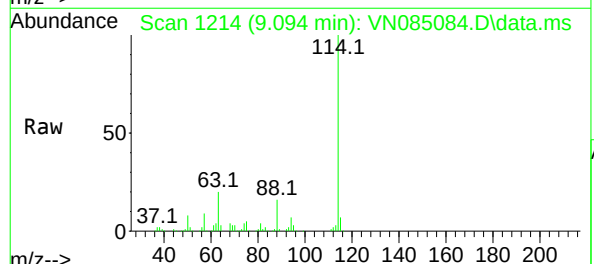
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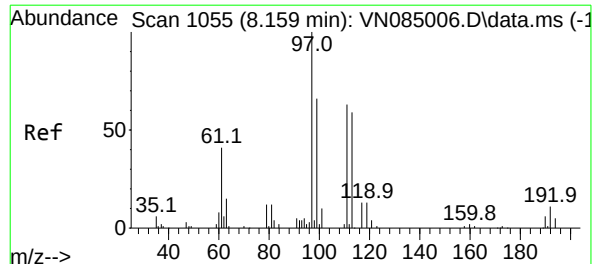
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. -0.000 min
Lab File: VN085084.D
Acq: 04 Dec 2024 09:51

Tgt Ion:114 Resp: 279794
Ion Ratio Lower Upper
114 100
63 19.7 0.0 41.0
88 15.8 0.0 34.8





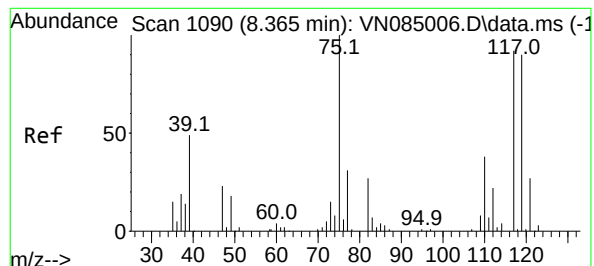
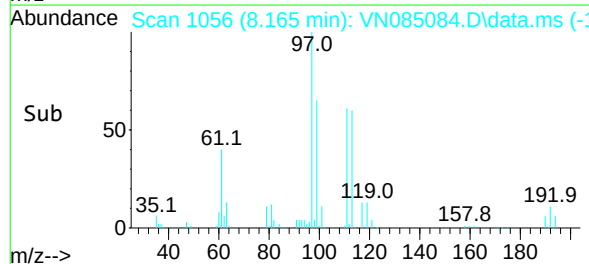
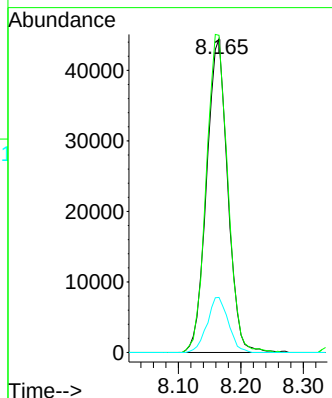
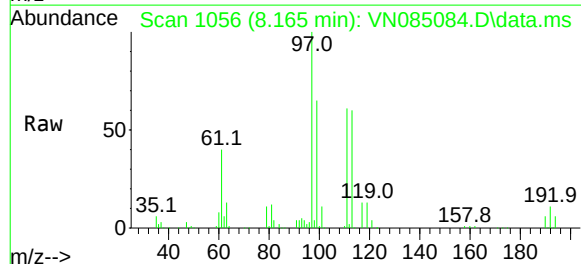
#35
Dibromofluoromethane
Concen: 55.313 ug/l
RT: 8.165 min Scan# 1055
Delta R.T. 0.006 min
Lab File: VN085084.D
Acq: 04 Dec 2024 09:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 113 Resp: 104367
Ion Ratio Lower Upper
113 100
111 102.9 82.0 123.0
192 17.6 14.8 22.2

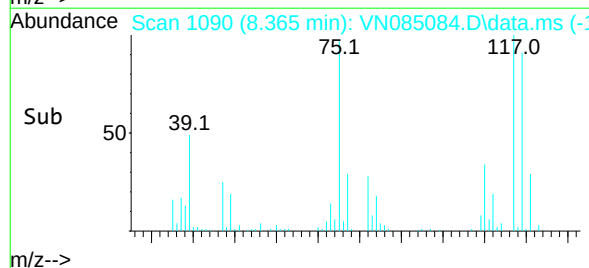
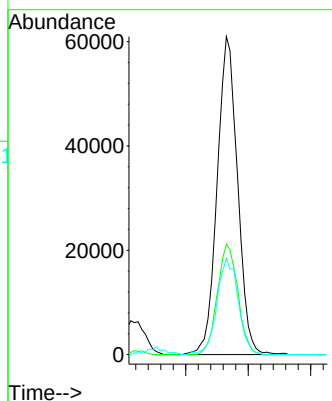
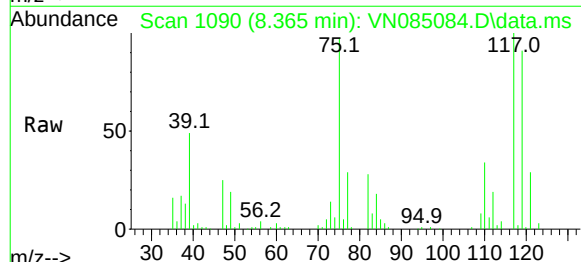
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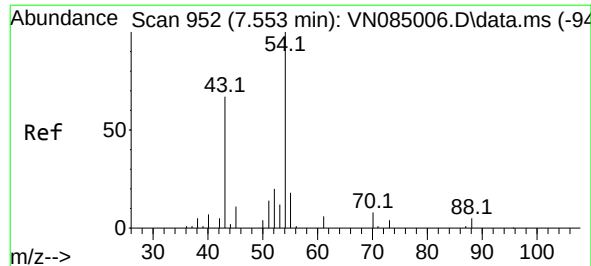
Reviewed By : John Carlone 12/05/2024
Supervised By : Mahesh Dadoda 12/05/2024



#36
1,1-Dichloropropene
Concen: 54.146 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.000 min
Lab File: VN085084.D
Acq: 04 Dec 2024 09:51

Tgt Ion: 75 Resp: 138381
Ion Ratio Lower Upper
75 100
110 34.8 17.2 51.6
77 31.6 24.2 36.4





#37

Ethyl Acetate

Concen: 52.667 ug/l

RT: 7.559 min Scan# 95

Delta R.T. 0.006 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

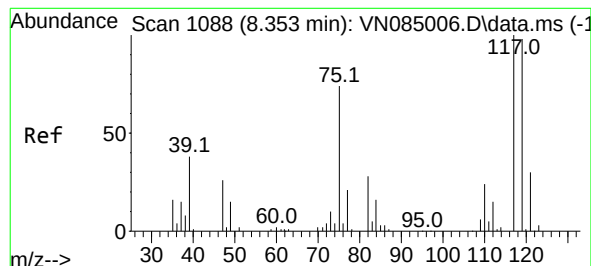
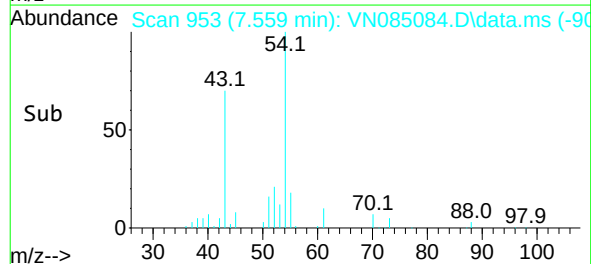
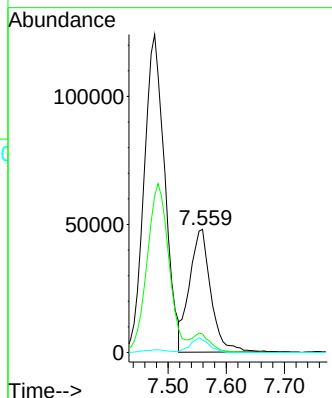
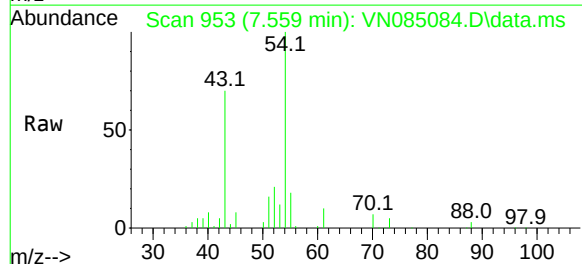
ClientSampleId :

VSTDC050

Tgt Ion:	43	Resp:	122367
Ion	Ratio	Lower	Upper
43	100		
61	13.2	11.7	17.5
70	10.4	9.3	13.9

Manual Integrations
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Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#38

Carbon Tetrachloride

Concen: 56.206 ug/l

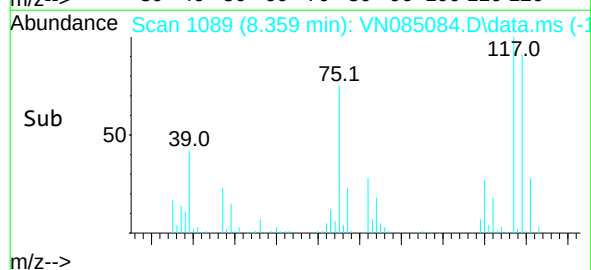
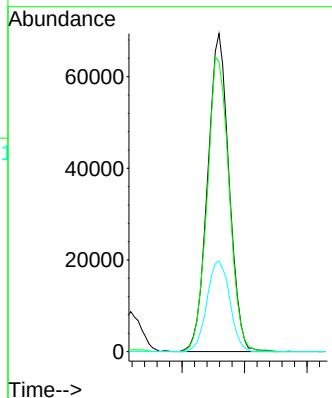
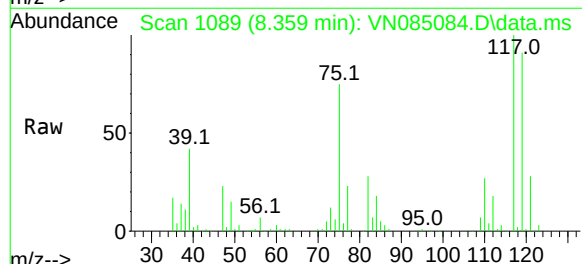
RT: 8.359 min Scan# 1089

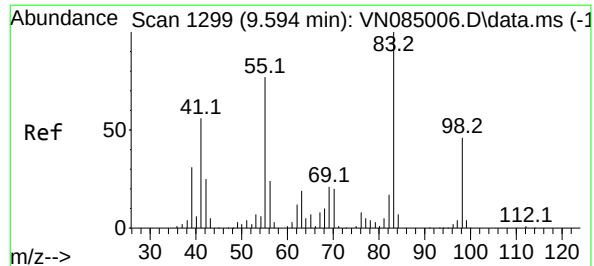
Delta R.T. 0.006 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Tgt Ion:	117	Resp:	165811
Ion	Ratio	Lower	Upper
117	100		
119	91.1	78.6	117.8
121	28.5	24.2	36.2





#39
Methylcyclohexane
Concen: 58.513 ug/l
RT: 9.600 min Scan# 13
Delta R.T. 0.006 min
Lab File: VN085084.D
Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

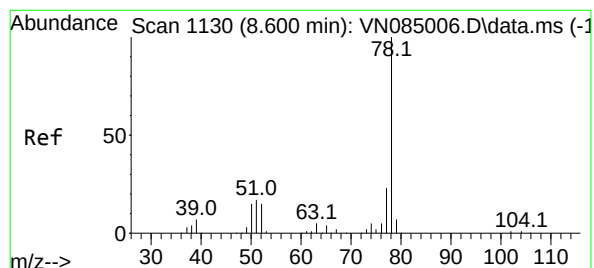
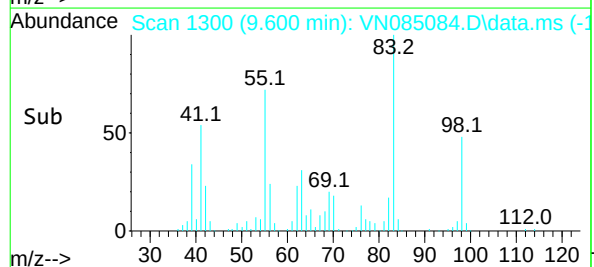
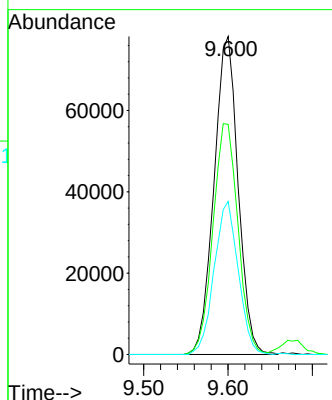
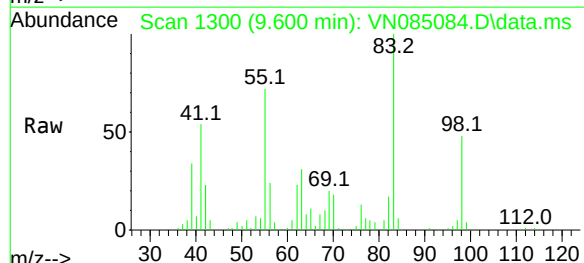
ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 155396
Ion Ratio Lower Upper
83 100
55 72.4 61.8 92.6
98 48.1 37.0 55.6

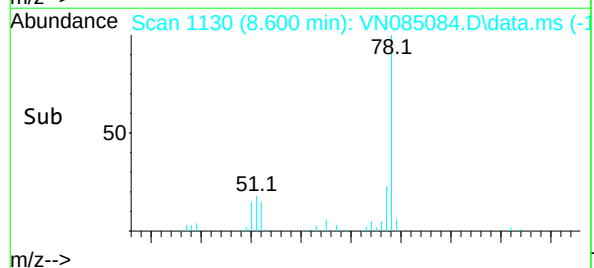
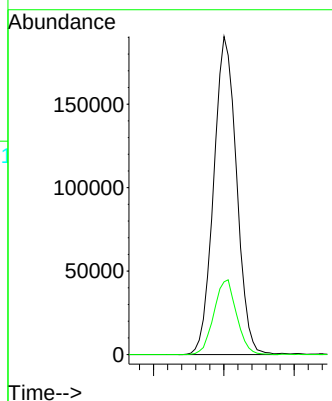
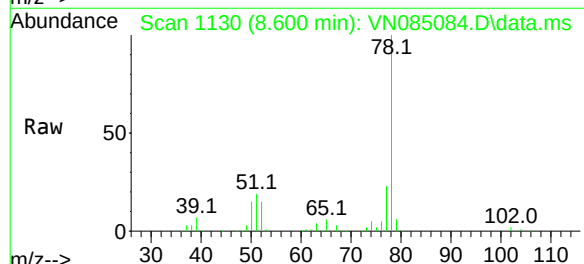
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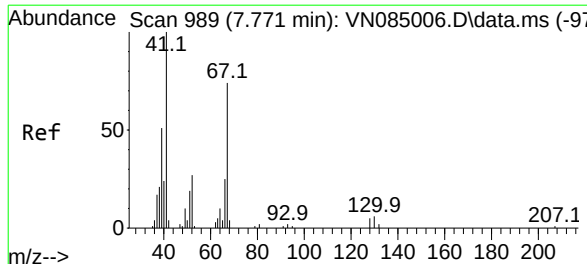
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#40
Benzene
Concen: 53.378 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN085084.D
Acq: 04 Dec 2024 09:51

Tgt Ion: 78 Resp: 431469
Ion Ratio Lower Upper
78 100
77 22.9 18.5 27.7





#41

Methacrylonitrile

Concen: 52.149 ug/l

RT: 7.771 min Scan# 989

Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 41 Resp: 67085

Ion Ratio Lower Upper

41 100

39 54.0 42.6 63.8

67 73.0 59.9 89.9

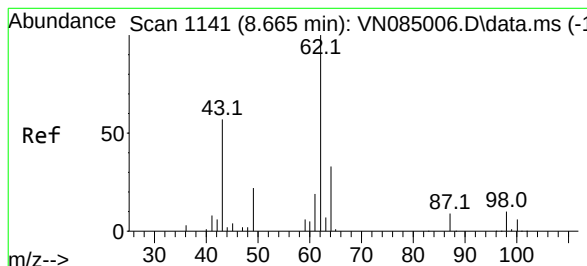
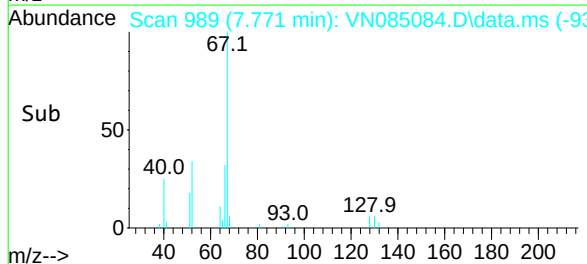
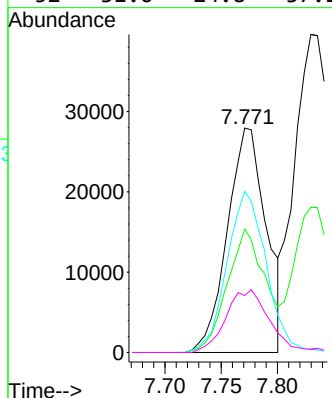
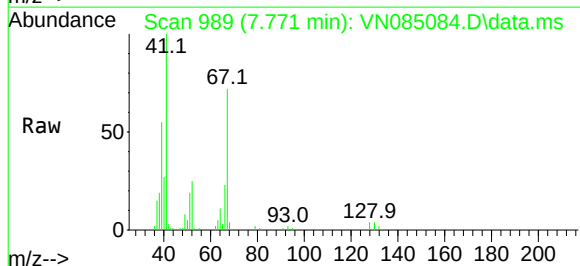
52 31.6 24.8 37.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#42

1,2-Dichloroethane

Concen: 52.698 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.000 min

Lab File: VN085084.D

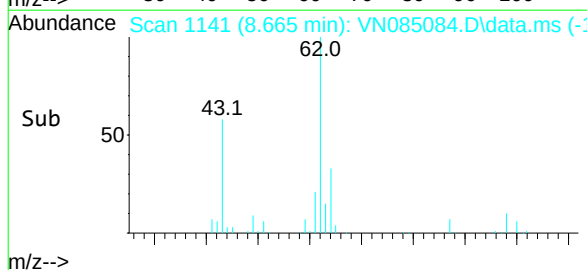
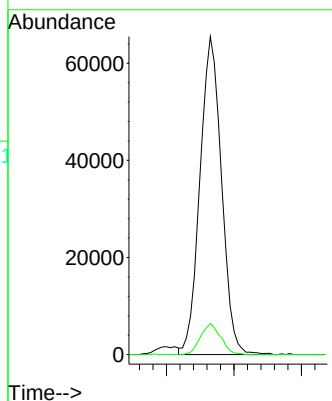
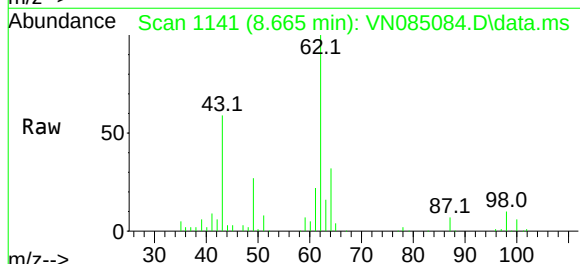
Acq: 04 Dec 2024 09:51

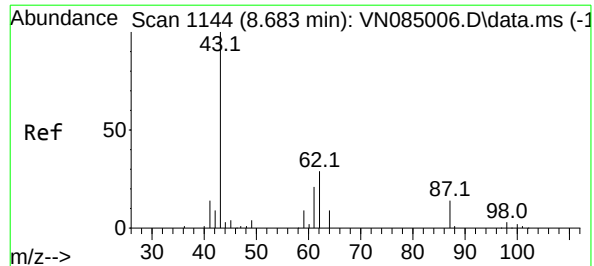
Tgt Ion: 62 Resp: 145727

Ion Ratio Lower Upper

62 100

98 9.1 0.0 18.2





#43

Isopropyl Acetate

Concen: 42.066 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

ClientSampleId :

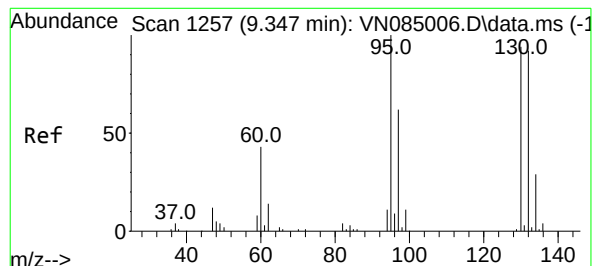
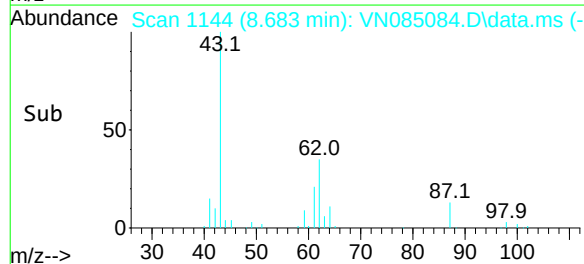
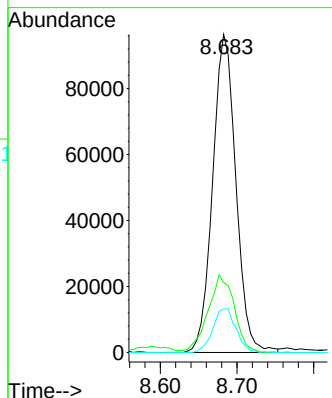
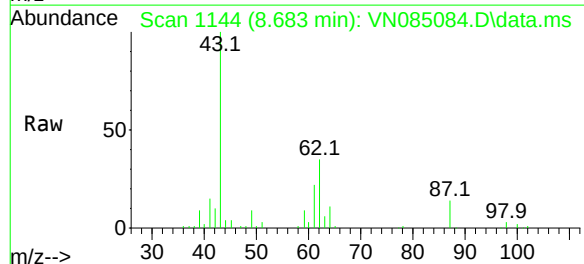
VSTDCCC050

Tgt Ion:	43	Resp:	203017
Ion	Ratio	Lower	Upper
43	100		
61	27.7	20.6	30.8
87	13.7	11.0	16.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#44

Trichloroethene

Concen: 54.222 ug/l

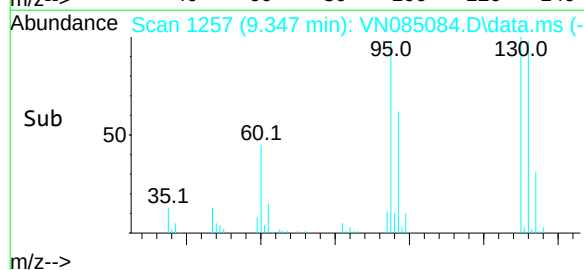
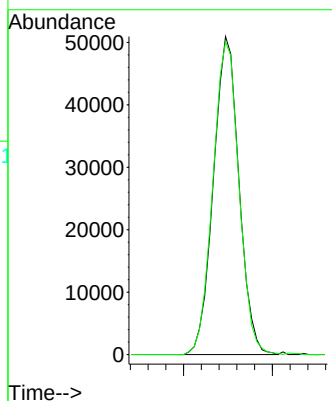
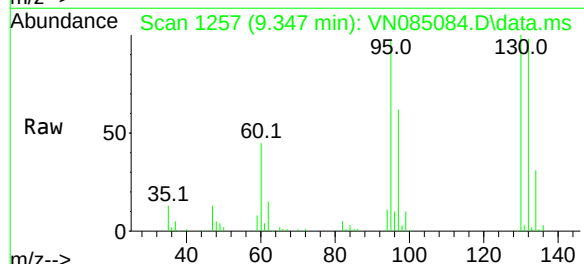
RT: 9.347 min Scan# 1257

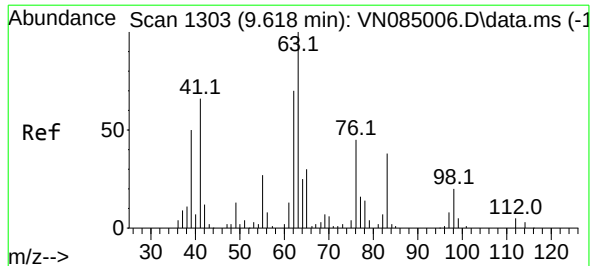
Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Tgt Ion:	130	Resp:	101855
Ion	Ratio	Lower	Upper
130	100		
95	98.4	0.0	213.4





#45

1,2-Dichloropropane

Concen: 53.172 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 63 Resp: 105861

Ion Ratio Lower Upper

63 100

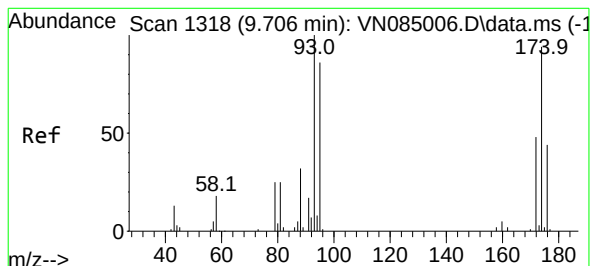
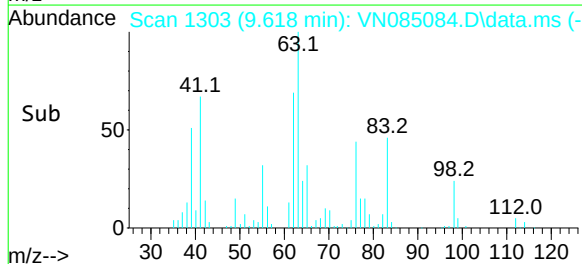
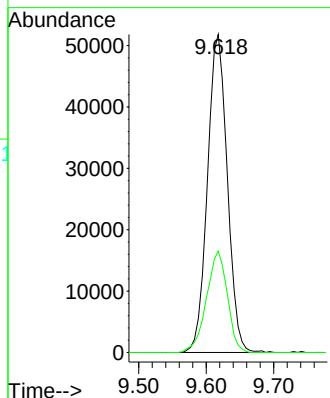
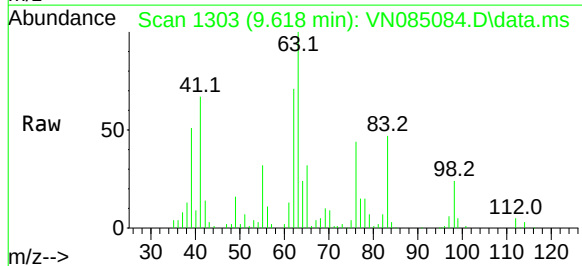
65 31.9 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#46

Dibromomethane

Concen: 52.808 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

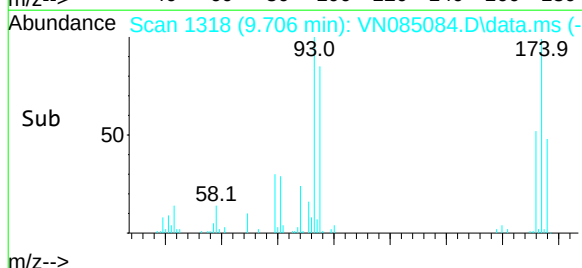
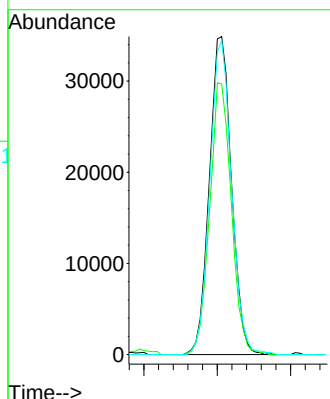
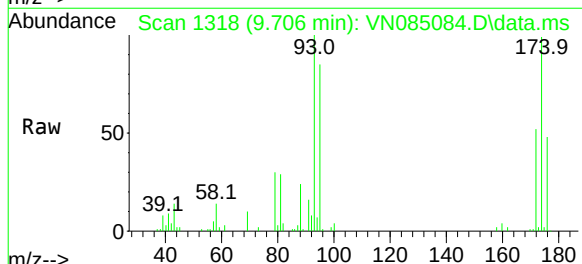
Tgt Ion: 93 Resp: 73055

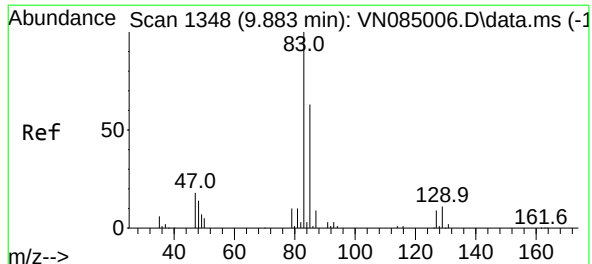
Ion Ratio Lower Upper

93 100

95 83.9 66.2 99.4

174 96.9 74.9 112.3





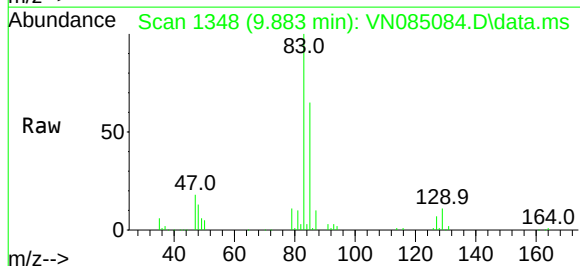
#47
Bromodichloromethane
Concen: 53.783 ug/l
RT: 9.883 min Scan# 1348
Delta R.T. -0.000 min
Lab File: VN085084.D
Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

ClientSampleId :

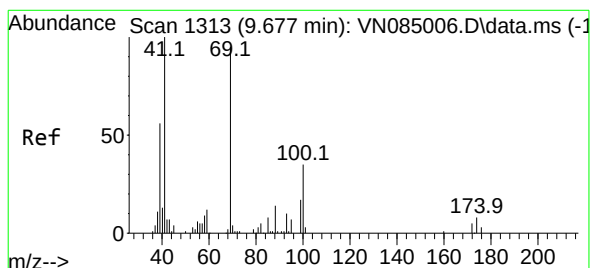
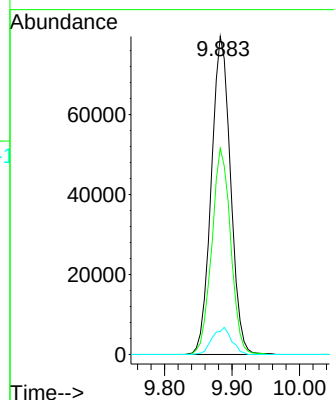
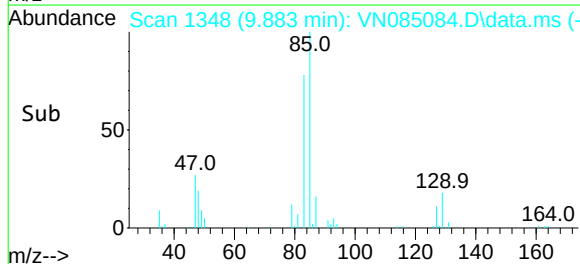
VSTDCCC050



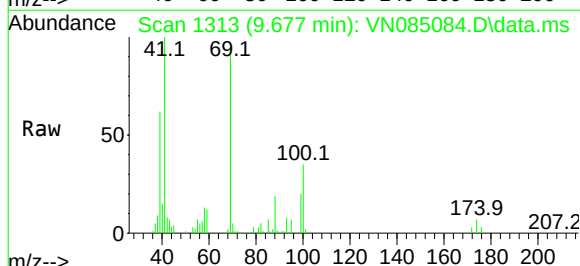
Tgt Ion: 83 Resp: 157695
Ion Ratio Lower Upper
83 100
85 64.8 50.5 75.7
127 7.3 7.1 10.7

Manual Integrations
APPROVED

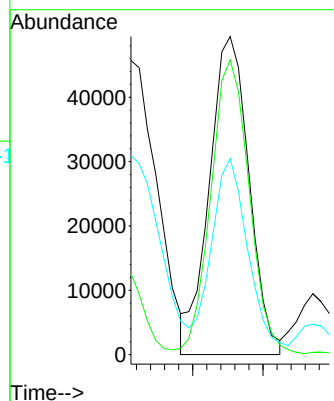
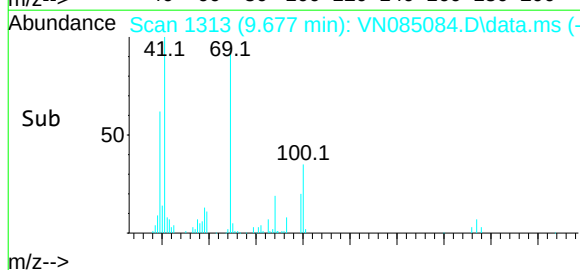
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024

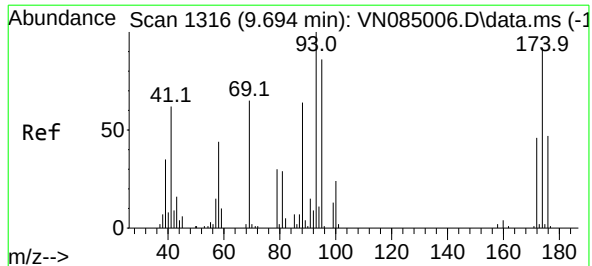


#48
Methyl methacrylate
Concen: 54.015 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085084.D
Acq: 04 Dec 2024 09:51



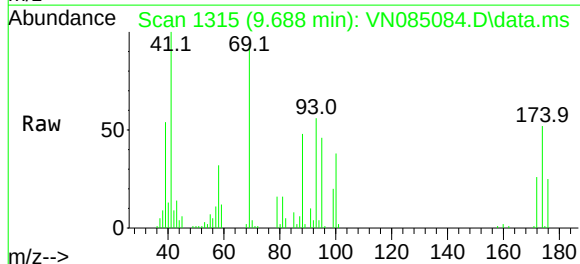
Tgt Ion: 41 Resp: 97005
Ion Ratio Lower Upper
41 100
69 89.2 73.2 109.8
39 57.7 46.2 69.4





#49
1,4-Dioxane
Concen: 1057.785 ug/l
RT: 9.688 min Scan# 1316
Delta R.T. -0.006 min
Lab File: VN085084.D
Acq: 04 Dec 2024 09:51

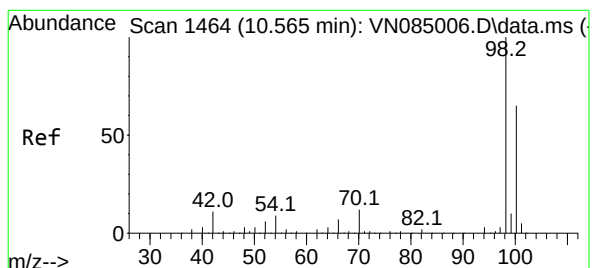
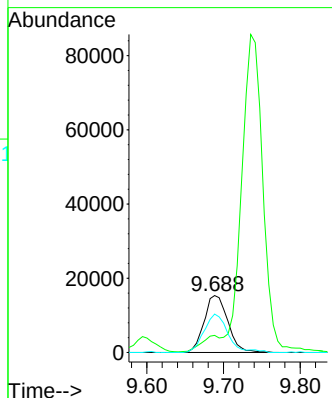
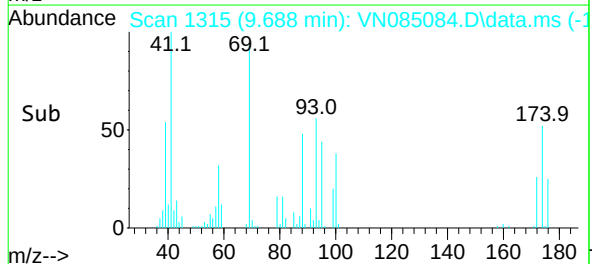
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 88 Resp: 32944
Ion Ratio Lower Upper
88 100
43 22.6 16.7 25.1
58 68.1 56.5 84.7

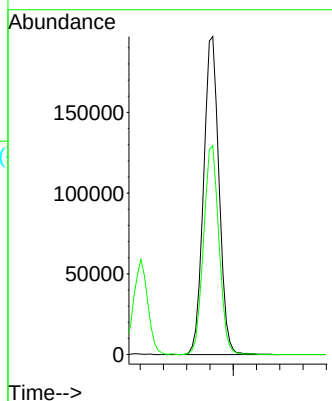
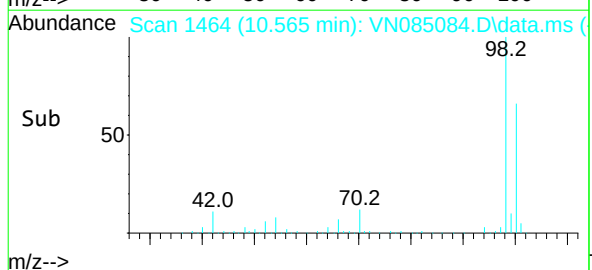
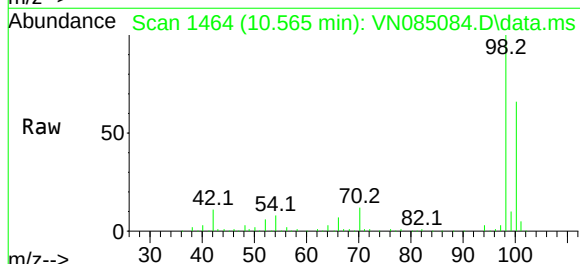
Manual Integrations
APPROVED

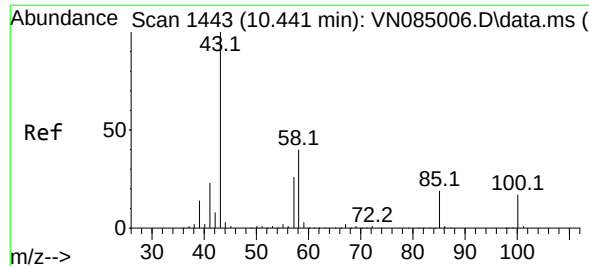
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#50
Toluene-d8
Concen: 53.797 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085084.D
Acq: 04 Dec 2024 09:51

Tgt Ion: 98 Resp: 363771
Ion Ratio Lower Upper
98 100
100 65.5 52.5 78.7





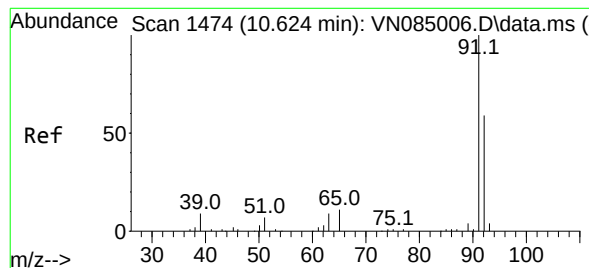
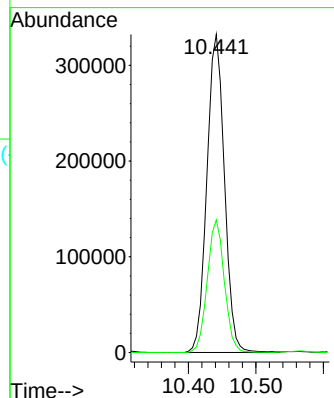
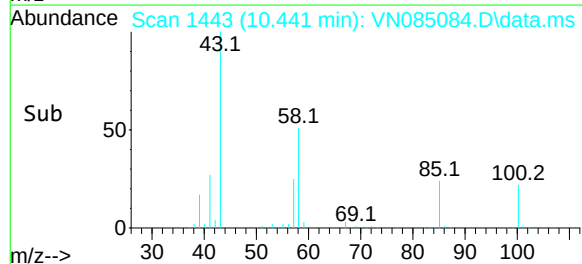
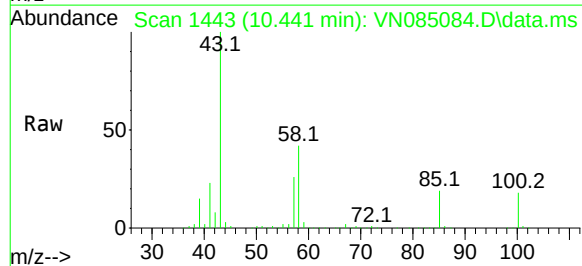
#51
4-Methyl-2-Pentanone
Concen: 272.294 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085084.D
Acq: 04 Dec 2024 09:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 600232
Ion Ratio Lower Upper
43 100
58 40.5 32.1 48.1

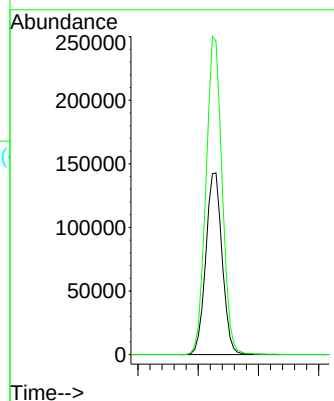
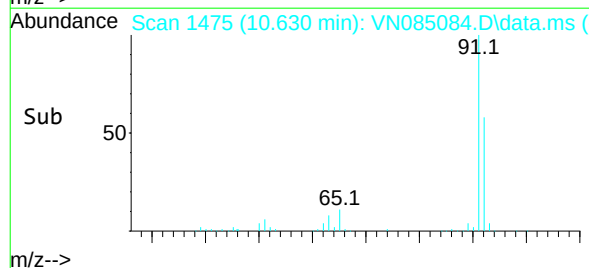
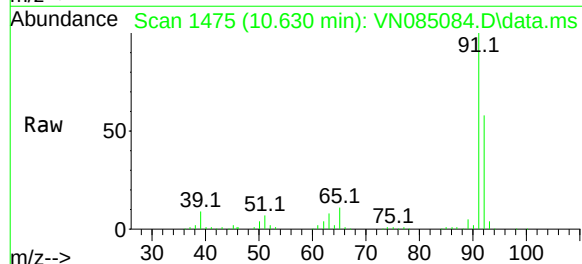
Manual Integrations
APPROVED

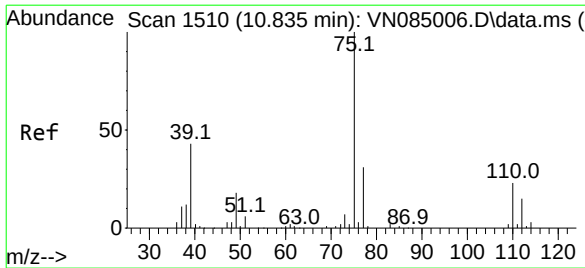
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#52
Toluene
Concen: 56.211 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN085084.D
Acq: 04 Dec 2024 09:51

Tgt Ion: 92 Resp: 268984
Ion Ratio Lower Upper
92 100
91 173.1 136.7 205.1





#53

t-1,3-Dichloropropene

Concen: 53.756 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 75 Resp: 158019

Ion Ratio Lower Upper

75 100

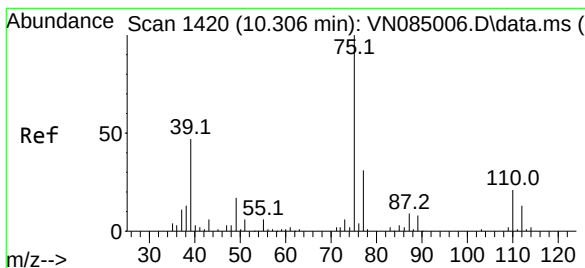
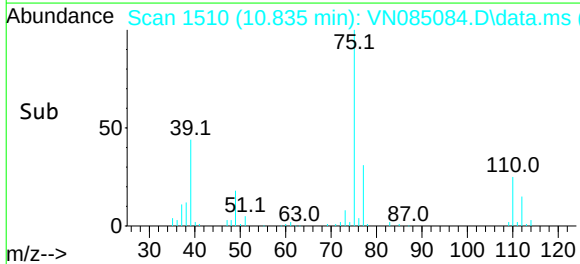
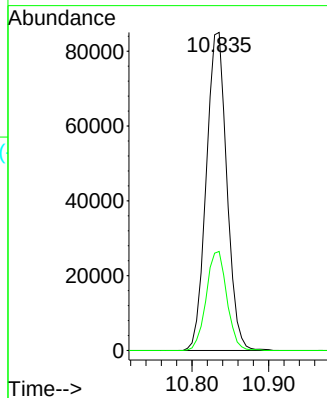
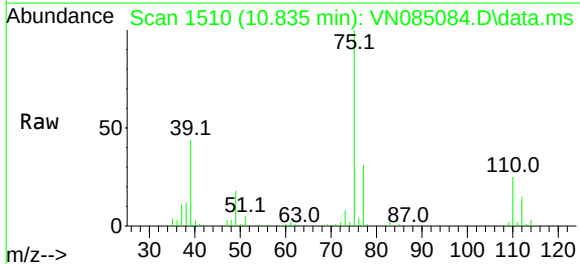
77 31.1 25.0 37.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#54

cis-1,3-Dichloropropene

Concen: 54.270 ug/l

RT: 10.306 min Scan# 1420

Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

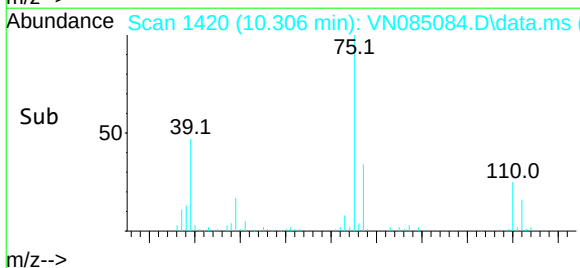
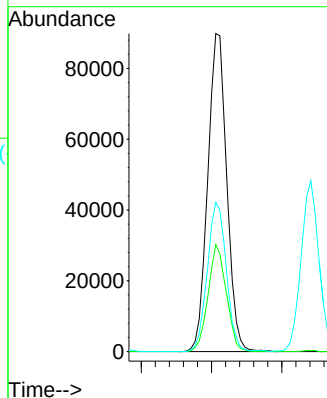
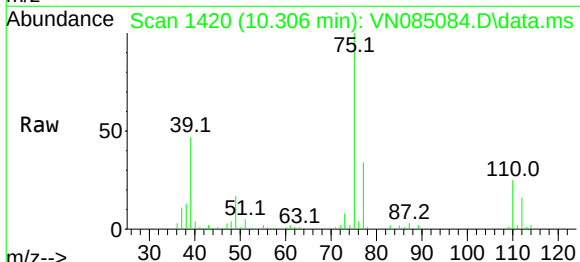
Tgt Ion: 75 Resp: 169242

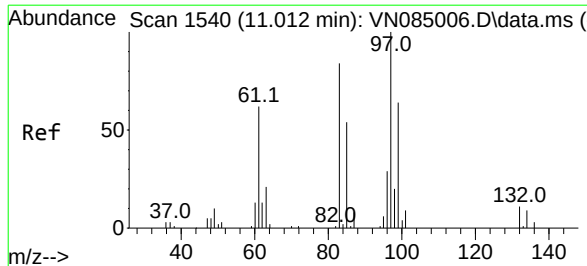
Ion Ratio Lower Upper

75 100

77 33.7 25.0 37.4

39 47.0 37.6 56.4





#55

1,1,2-Trichloroethane

Concen: 54.351 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 97 Resp: 96875

Ion Ratio Lower Upper

97 100

83 86.5 67.4 101.2

85 56.4 43.1 64.7

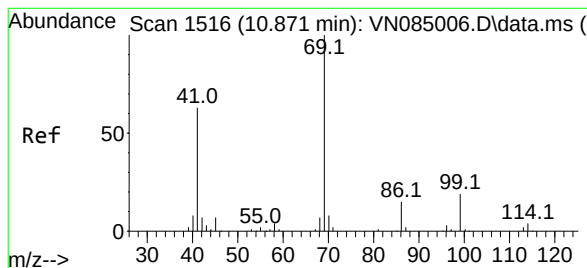
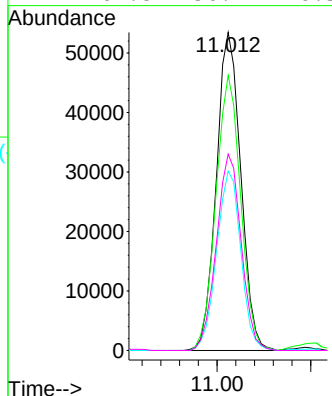
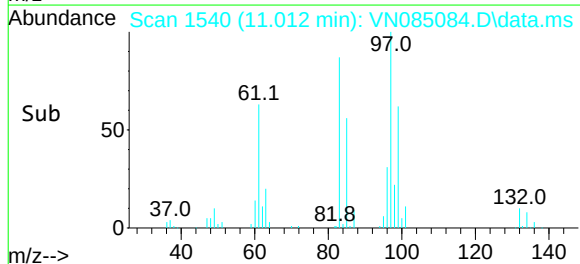
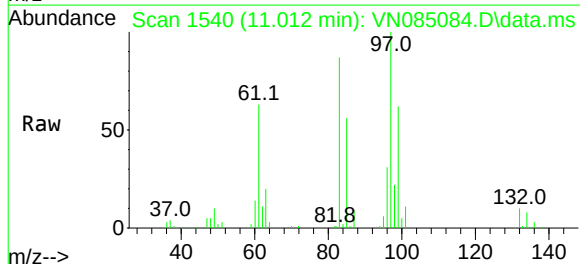
99 61.8 50.9 76.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#56

Ethyl methacrylate

Concen: 57.649 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

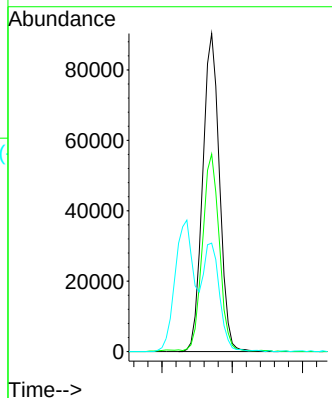
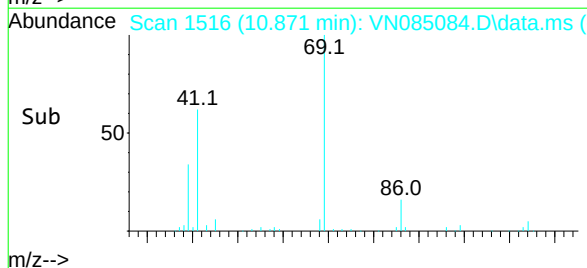
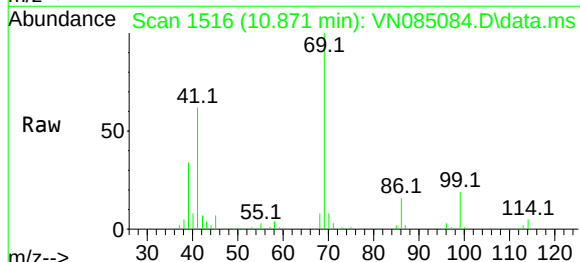
Tgt Ion: 69 Resp: 150149

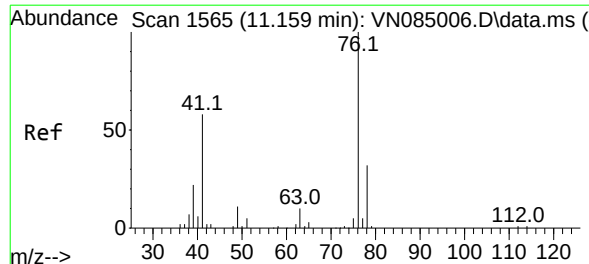
Ion Ratio Lower Upper

69 100

41 61.5 50.0 75.0

39 32.1 27.0 40.6





#57

1,3-Dichloropropane

Concen: 53.689 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDC050

Tgt Ion: 76 Resp: 168422

Ion Ratio Lower Upper

76 100

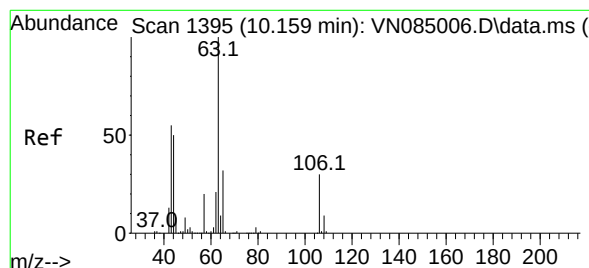
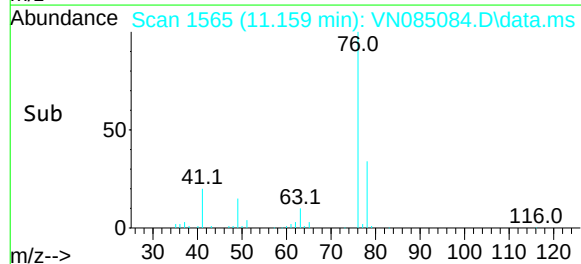
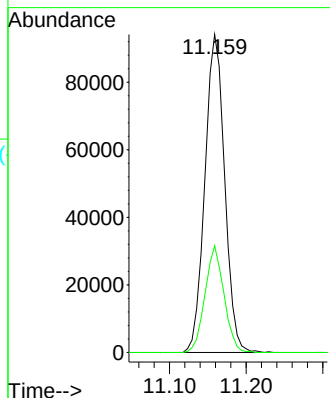
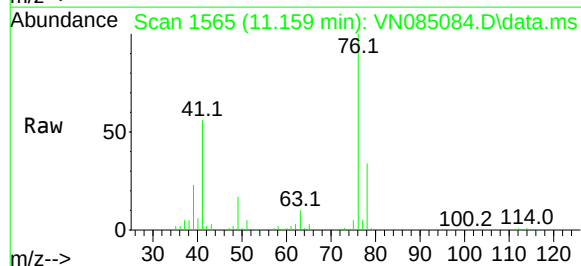
78 32.2 26.1 39.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#58

2-Chloroethyl Vinyl ether

Concen: 288.021 ug/l

RT: 10.153 min Scan# 1394

Delta R.T. -0.006 min

Lab File: VN085084.D

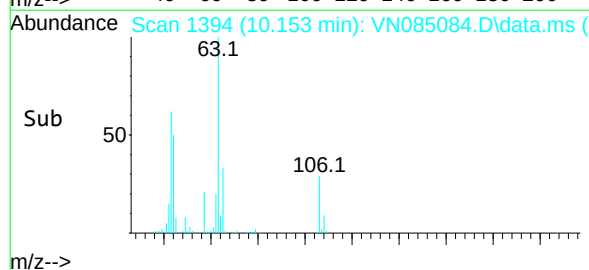
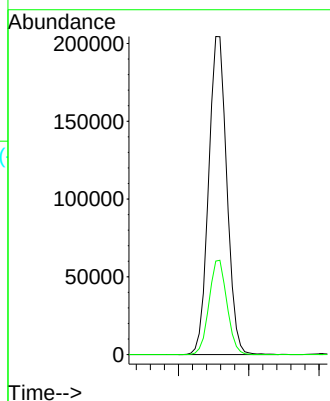
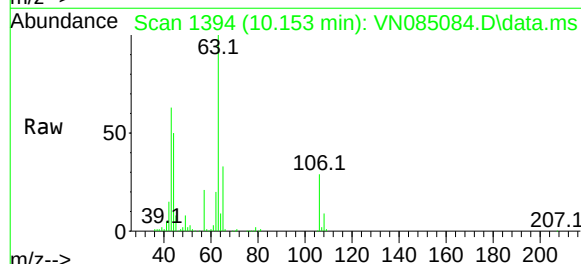
Acq: 04 Dec 2024 09:51

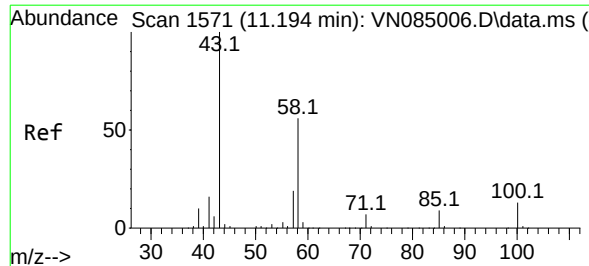
Tgt Ion: 63 Resp: 367974

Ion Ratio Lower Upper

63 100

106 29.2 23.0 34.6





#59

2-Hexanone

Concen: 276.238 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. -0.006 min

Lab File: VN085084.D

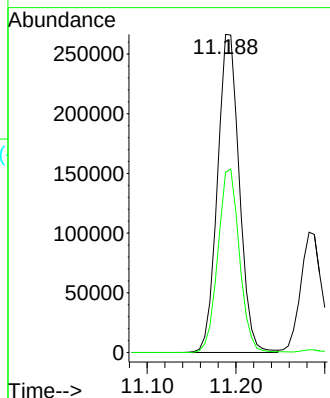
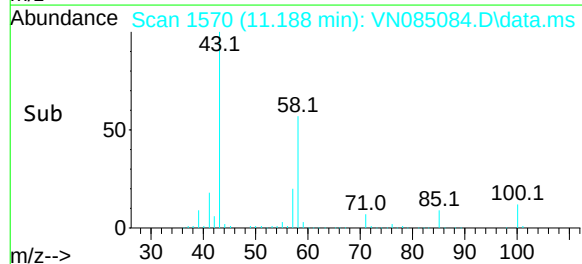
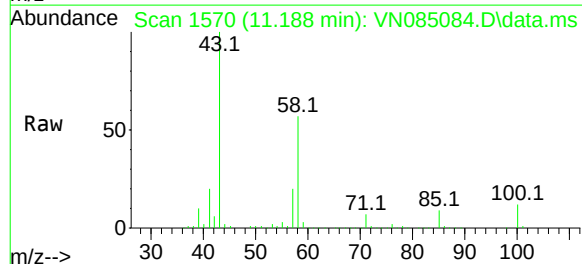
Acq: 04 Dec 2024 09:51

Tgt Ion: 43 Resp: 455418

Ion Ratio Lower Upper

43 100

58 56.8 28.3 85.0



Instrument :

MSVOA_N

ClientSampleId :

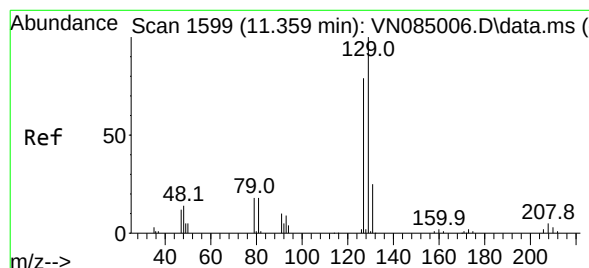
VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#60

Dibromochloromethane

Concen: 53.434 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. -0.006 min

Lab File: VN085084.D

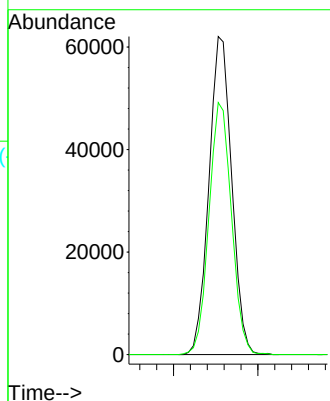
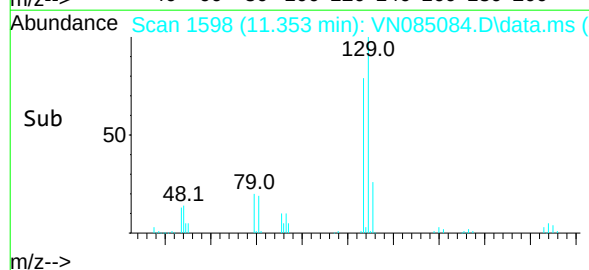
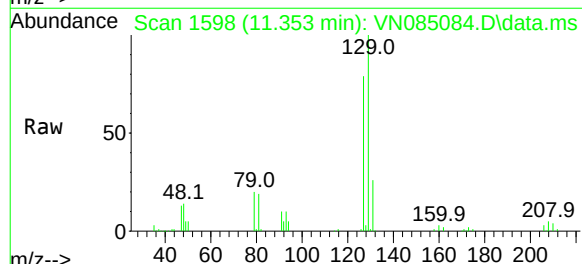
Acq: 04 Dec 2024 09:51

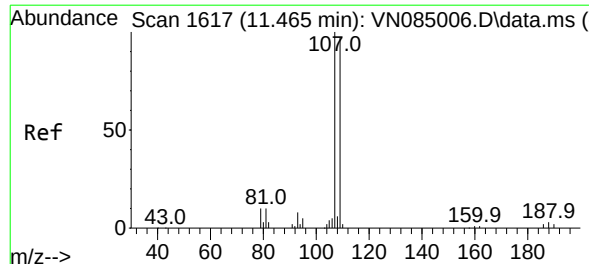
Tgt Ion:129 Resp: 116398

Ion Ratio Lower Upper

129 100

127 78.4 39.2 117.6





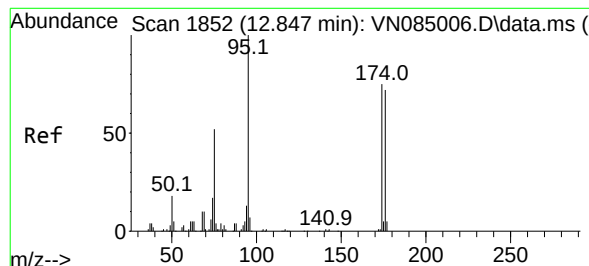
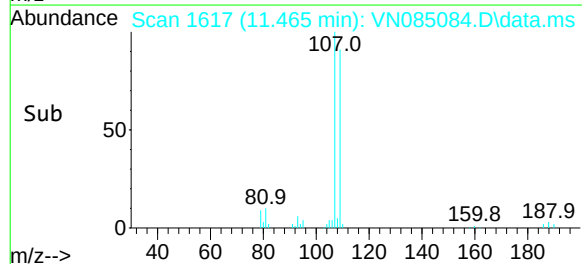
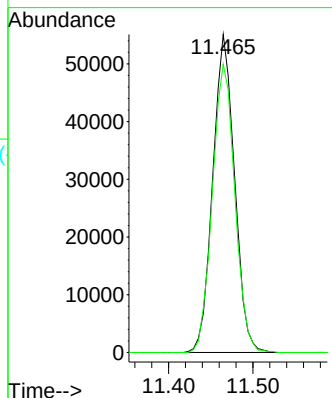
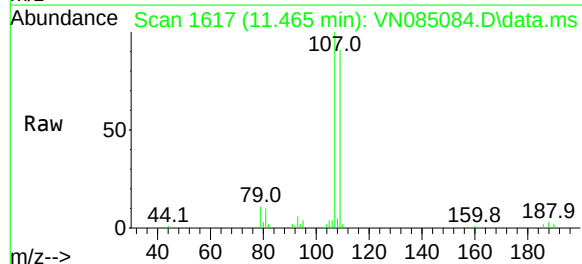
#61
1,2-Dibromoethane
Concen: 53.580 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085084.D
Acq: 04 Dec 2024 09:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 107 Resp: 98836
Ion Ratio Lower Upper
107 100
109 93.8 76.1 114.1

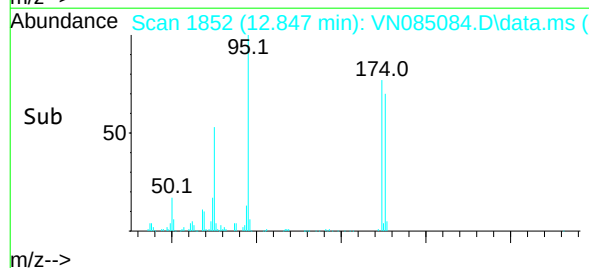
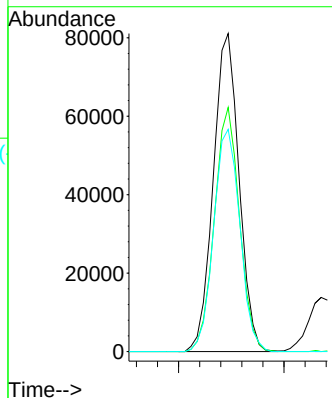
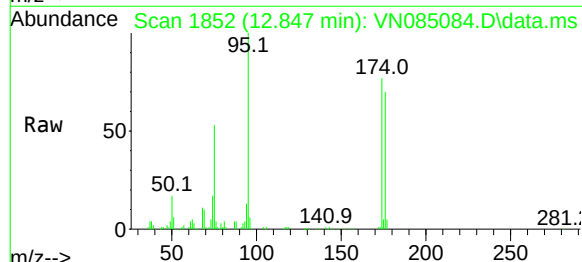
Manual Integrations
APPROVED

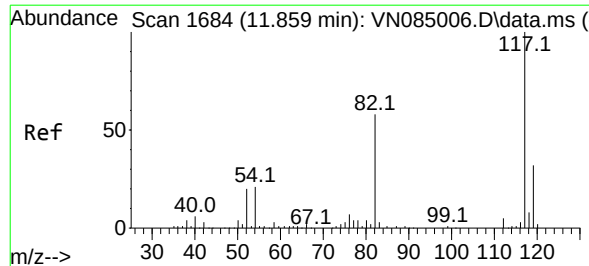
Reviewed By : John Carlone 12/05/2024
Supervised By : Mahesh Dadoda 12/05/2024



#62
4-Bromofluorobenzene
Concen: 54.361 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085084.D
Acq: 04 Dec 2024 09:51

Tgt Ion: 95 Resp: 137465
Ion Ratio Lower Upper
95 100
174 75.0 0.0 146.6
176 71.3 0.0 141.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1684

Delta R.T. 0.006 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:117 Resp: 245149

Ion Ratio Lower Upper

117 100

82 55.2 46.0 69.0

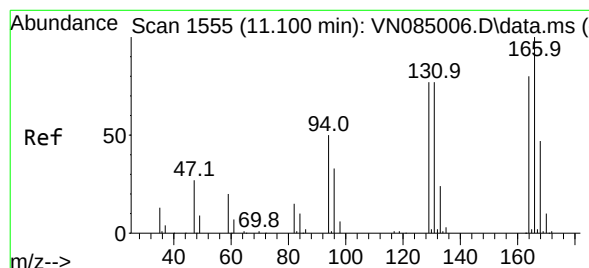
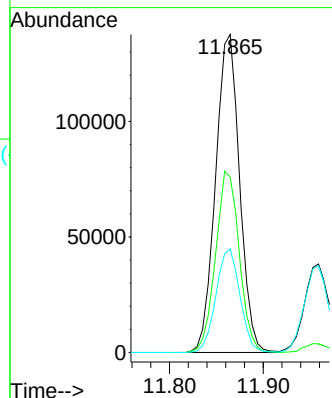
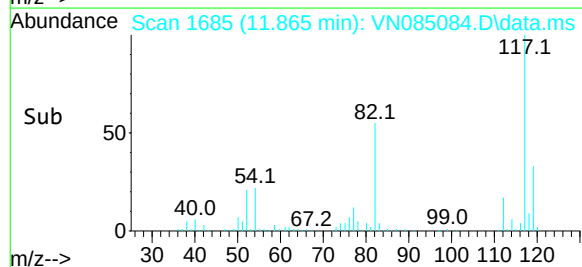
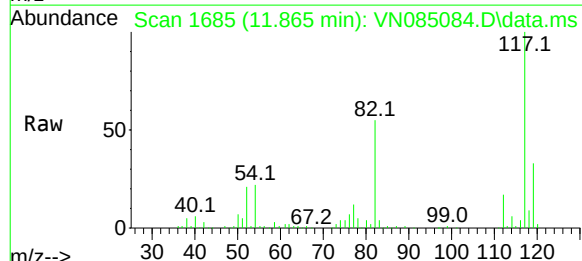
119 32.6 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#64

Tetrachloroethene

Concen: 54.455 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Tgt Ion:164 Resp: 89953

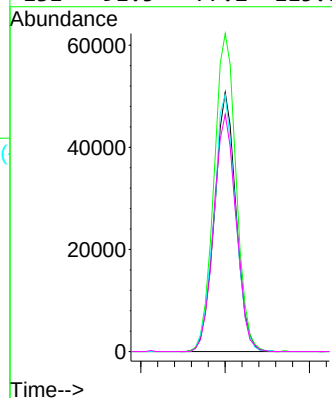
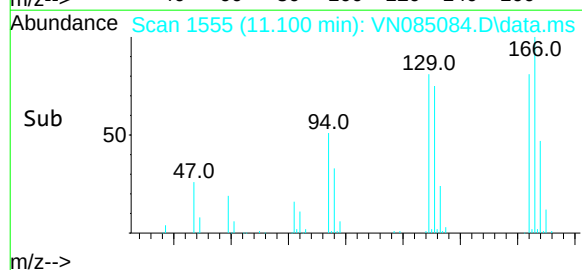
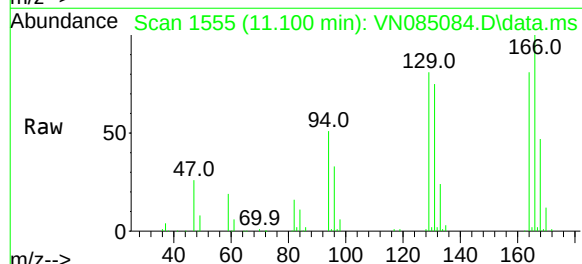
Ion Ratio Lower Upper

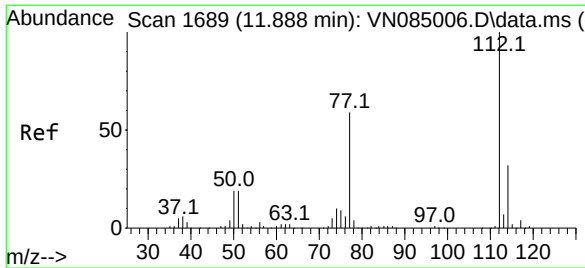
164 100

166 122.7 100.6 151.0

129 99.0 77.7 116.5

131 91.5 77.2 115.8





#65

Chlorobenzene

Concen: 51.624 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:112 Resp: 287016

Ion Ratio Lower Upper

112 100

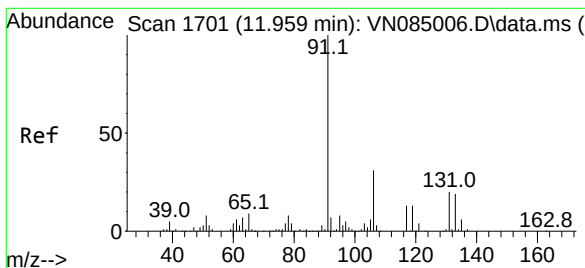
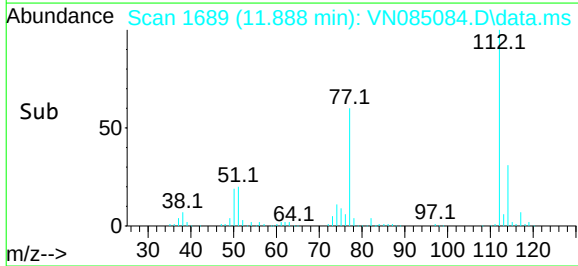
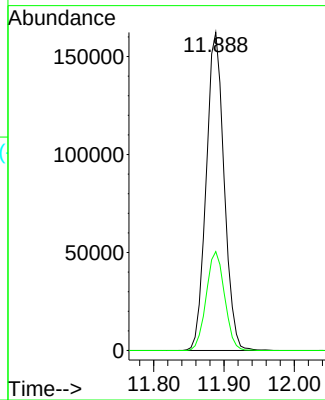
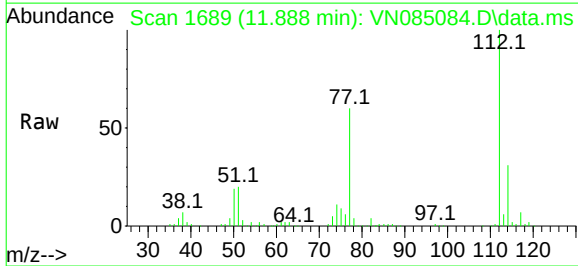
114 31.1 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#66

1,1,1,2-Tetrachloroethane

Concen: 54.373 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

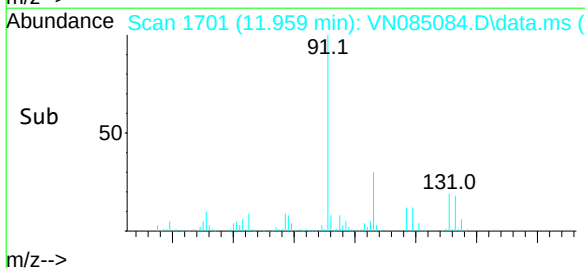
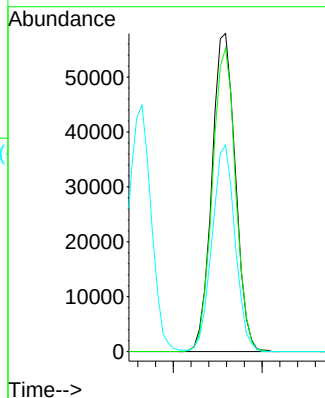
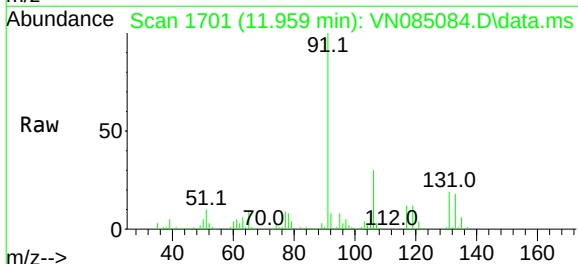
Tgt Ion:131 Resp: 106434

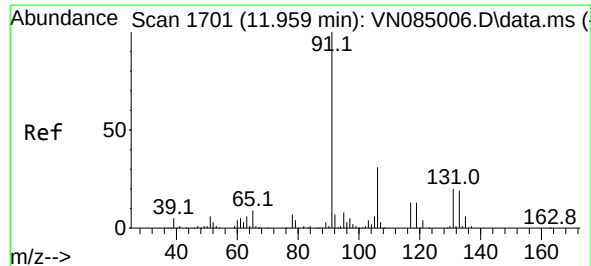
Ion Ratio Lower Upper

131 100

133 94.2 47.8 143.4

119 63.4 32.1 96.3





#67

Ethyl Benzene

Concen: 57.021 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 514328

Ion Ratio Lower Upper

91 100

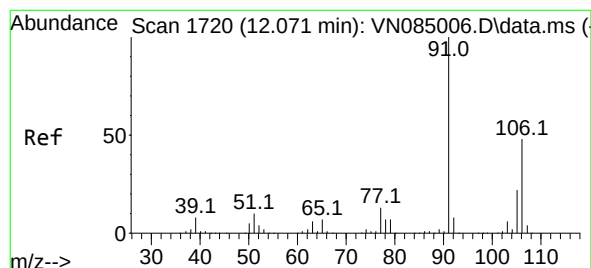
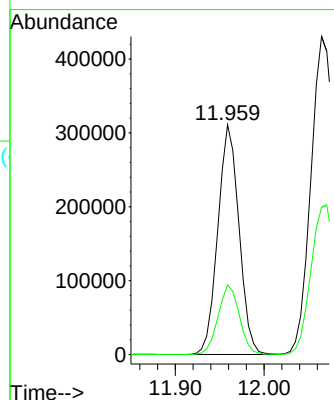
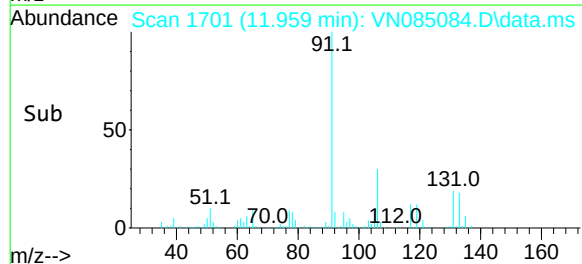
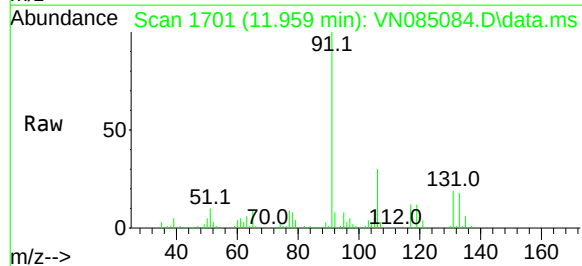
106 30.3 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#68

m/p-Xylenes

Concen: 116.086 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN085084.D

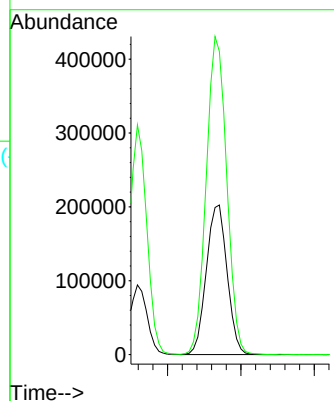
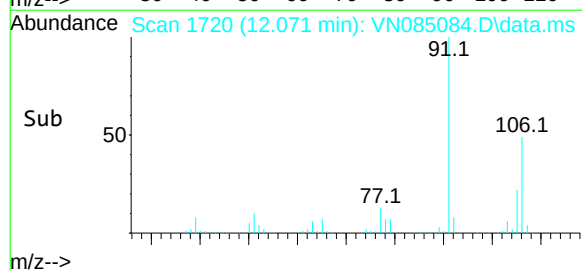
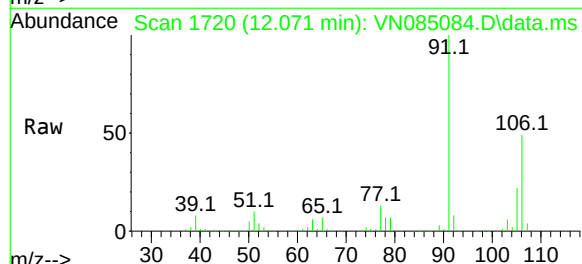
Acq: 04 Dec 2024 09:51

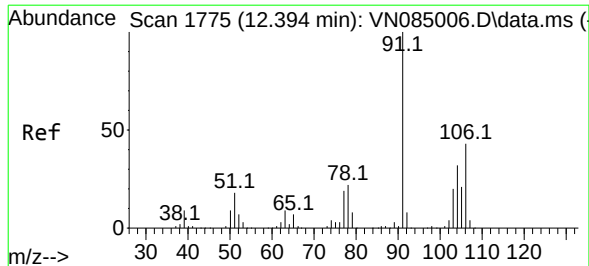
Tgt Ion:106 Resp: 398644

Ion Ratio Lower Upper

106 100

91 209.0 168.0 252.0





#69

o-Xylene

Concen: 56.698 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:106 Resp: 185209

Ion Ratio Lower Upper

106 100

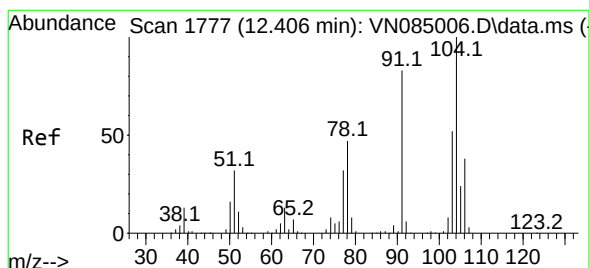
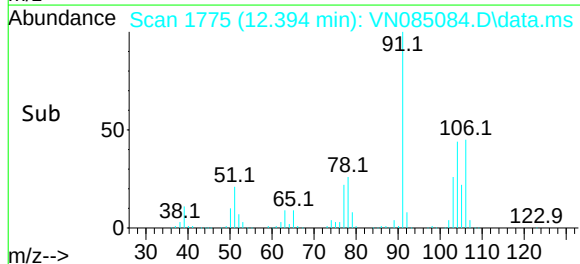
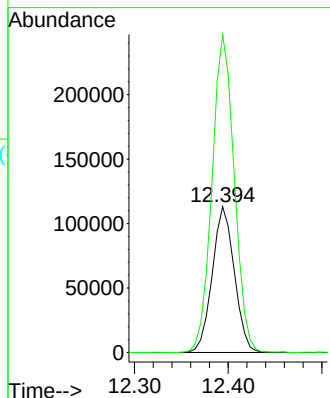
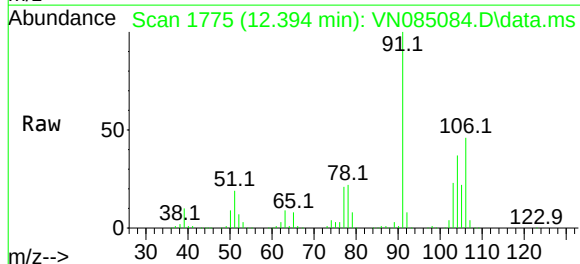
91 220.2 110.7 331.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#70

Styrene

Concen: 59.382 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

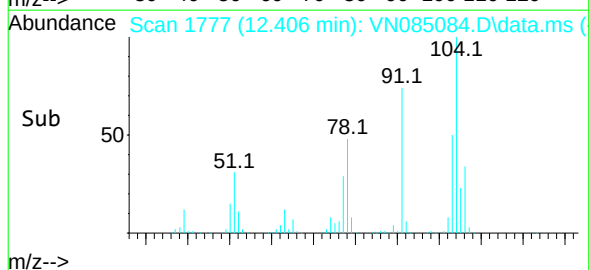
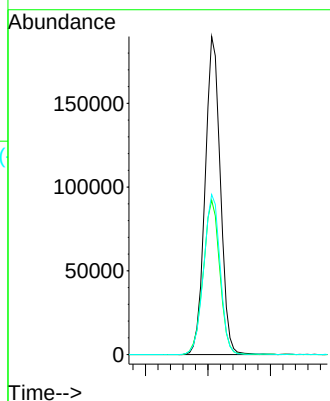
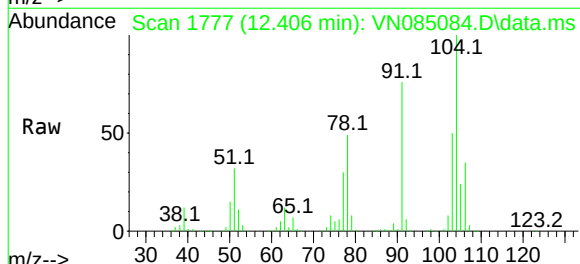
Tgt Ion:104 Resp: 322581

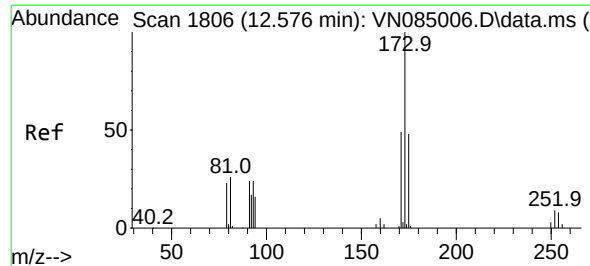
Ion Ratio Lower Upper

104 100

78 52.3 42.3 63.5

103 54.1 44.2 66.2





#71

Bromoform

Concen: 52.681 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

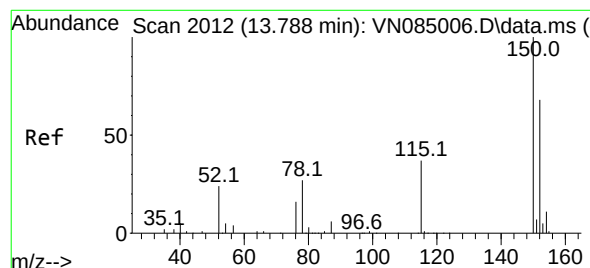
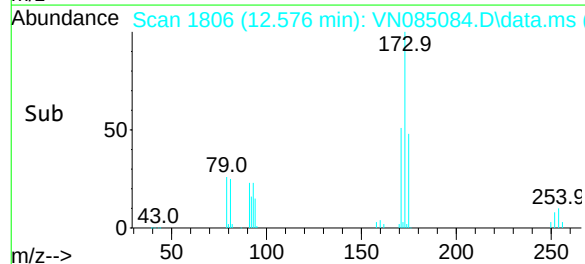
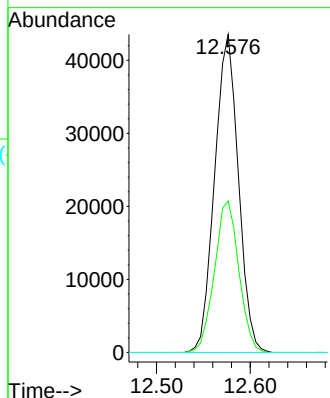
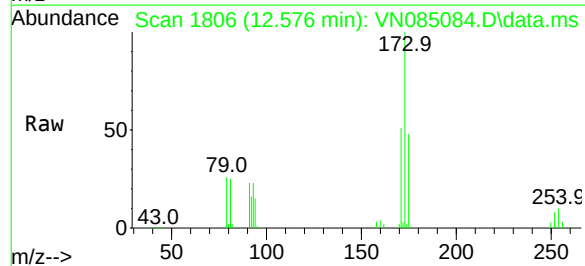
ClientSampleId :

VSTDCCC050

Tgt Ion:	173	Resp:	76547
Ion Ratio	Lower	Upper	
173	100		
175	49.0	23.8	71.2
254	0.0	0.0	0.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

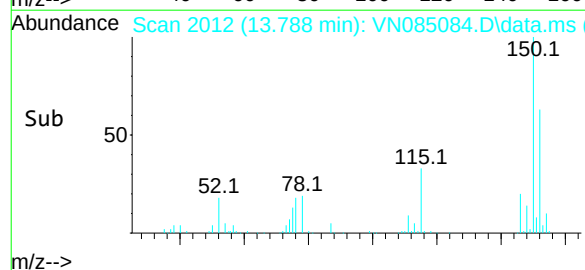
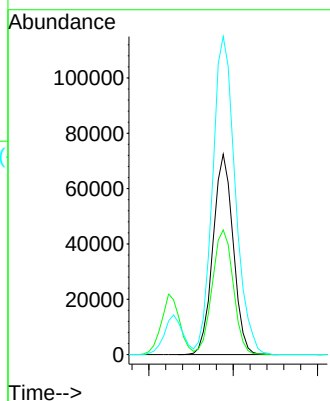
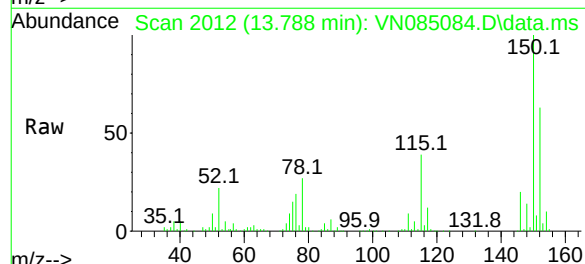
RT: 13.788 min Scan# 2012

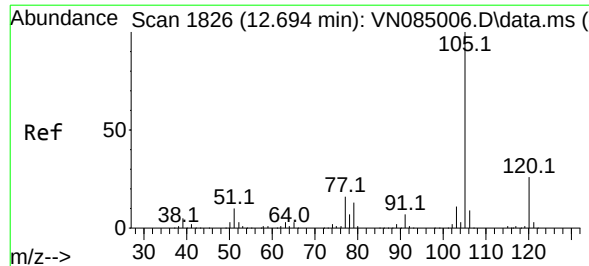
Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Tgt Ion:	152	Resp:	120683
Ion Ratio	Lower	Upper	
152	100		
115	64.6	31.7	95.1
150	177.8	0.0	351.4





#73

Isopropylbenzene

Concen: 56.804 ug/l

RT: 12.694 min Scan# 18

Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 105 Resp: 483613

Ion Ratio Lower Upper

105 100

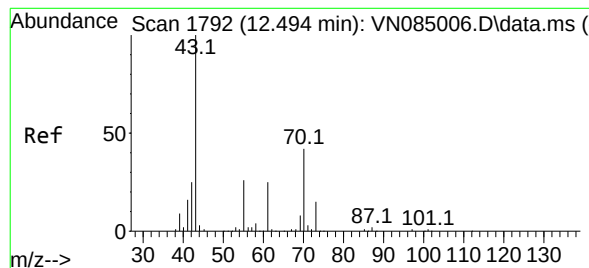
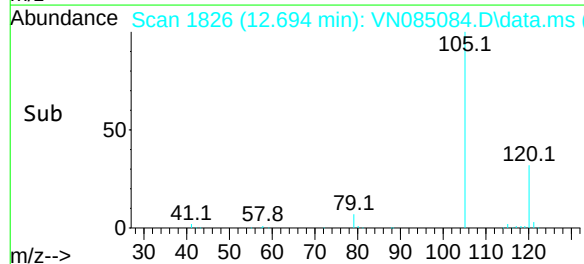
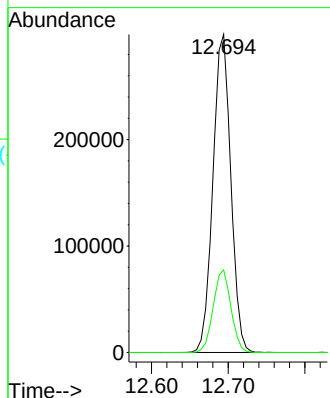
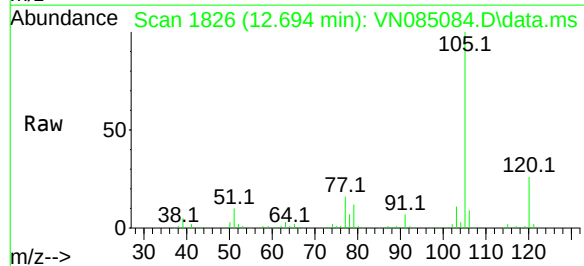
120 25.7 13.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#74

N-ethyl acetate

Concen: 50.241 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. -0.006 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Tgt Ion: 43 Resp: 176259

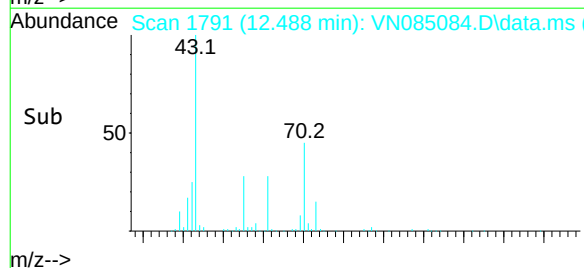
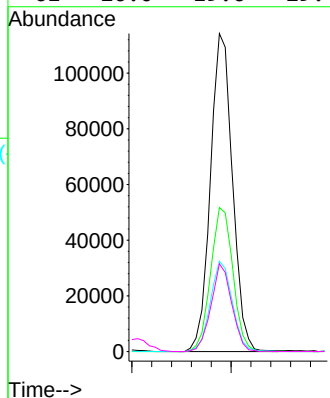
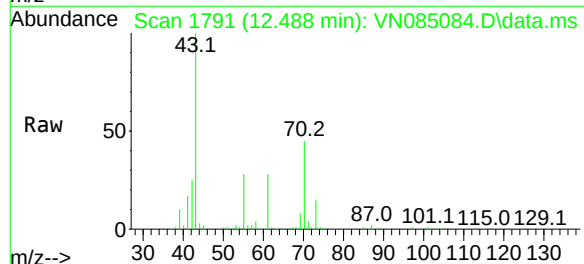
Ion Ratio Lower Upper

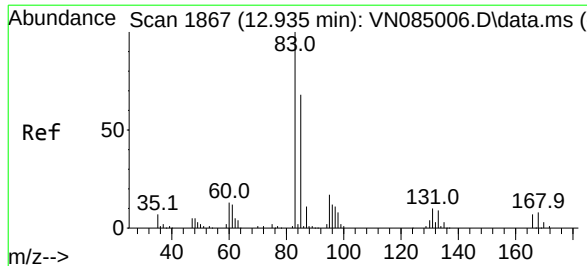
43 100

70 45.7 34.6 51.8

55 28.4 20.5 30.7

61 26.0 19.6 29.4





#75

1,1,2,2-Tetrachloroethane

Concen: 46.696 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

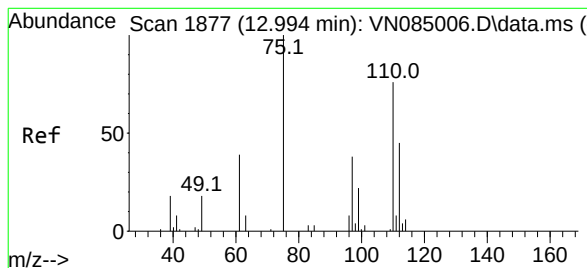
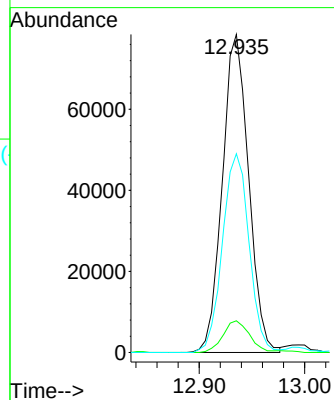
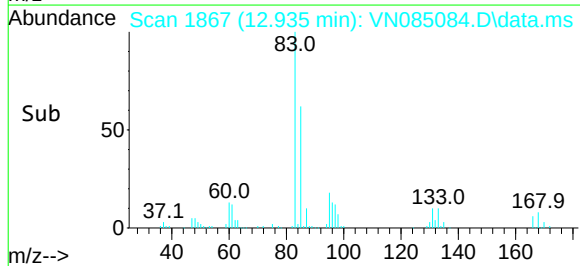
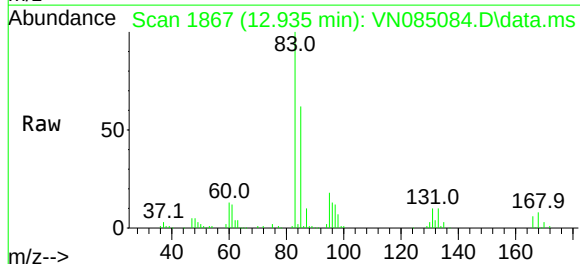
ClientSampleId :

VSTDCCC050

Tgt Ion:	83	Resp:	135757
Ion	Ratio	Lower	Upper
83	100		
131	10.5	5.1	15.4
85	63.2	32.1	96.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#76

1,2,3-Trichloropropane

Concen: 55.856 ug/l m

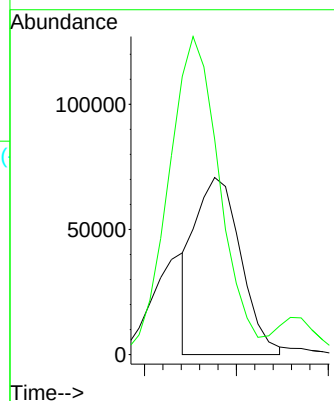
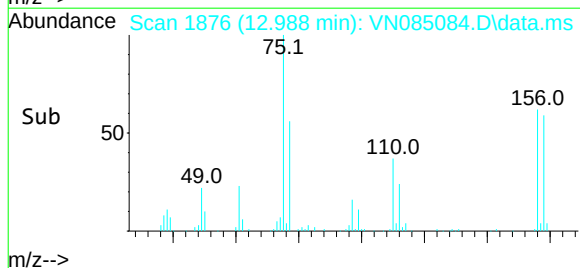
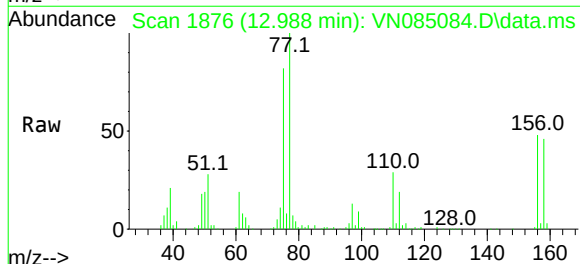
RT: 12.988 min Scan# 1876

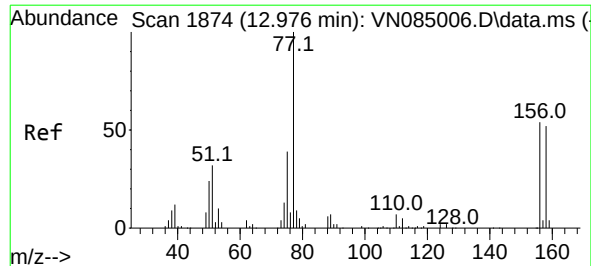
Delta R.T. -0.006 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Tgt Ion:	75	Resp:	122611
Ion	Ratio	Lower	Upper
75	100		
77	200.9	109.1	327.4





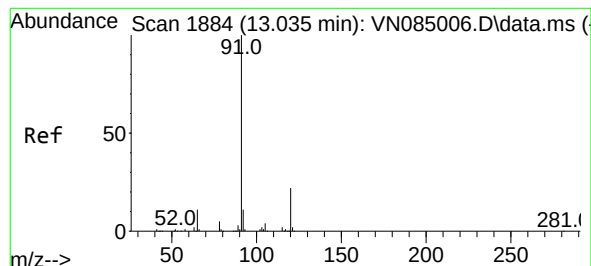
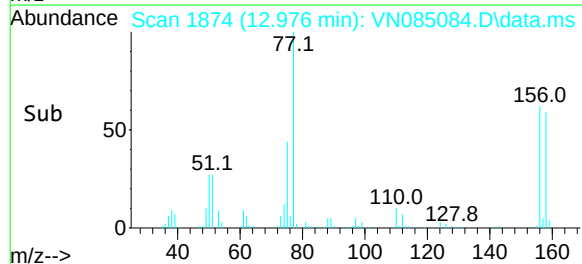
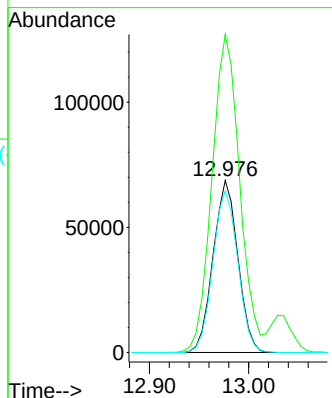
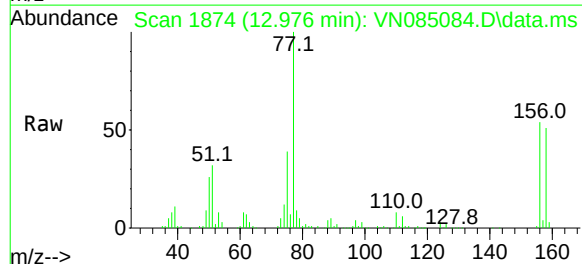
Bromobenzene
Concen: 51.983 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN085084.D
Acq: 04 Dec 2024 09:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
156	100		
77	206.8	107.2	321.6
158	94.7	48.5	145.6

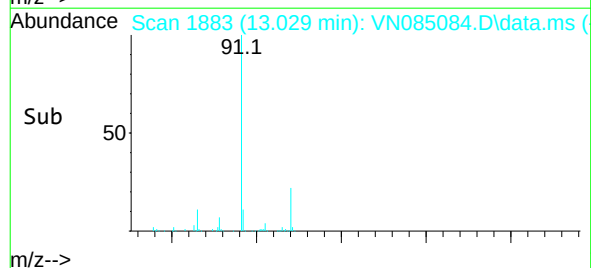
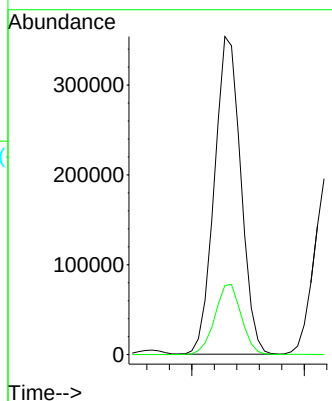
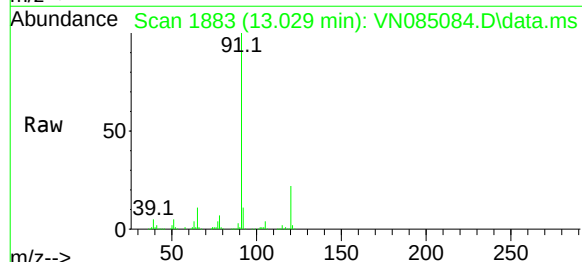
Manual Integrations
APPROVED

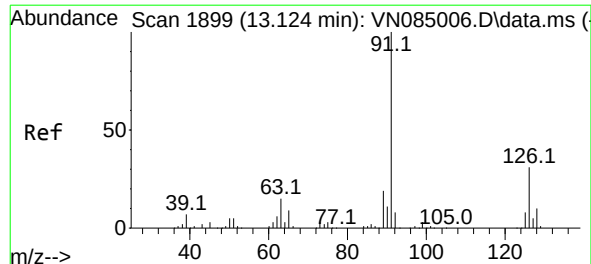
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



n-propylbenzene
Concen: 58.869 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. -0.006 min
Lab File: VN085084.D
Acq: 04 Dec 2024 09:51

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.3	33.9





#79

2-Chlorotoluene

Concen: 54.537 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 357502

Ion Ratio Lower Upper

91 100

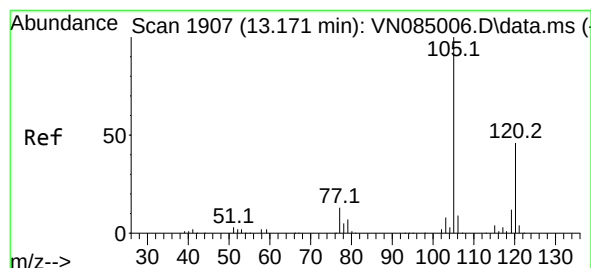
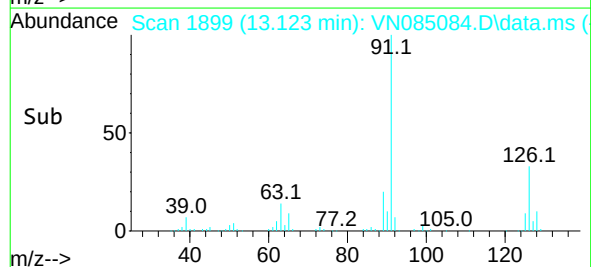
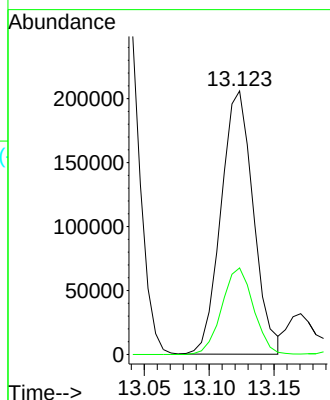
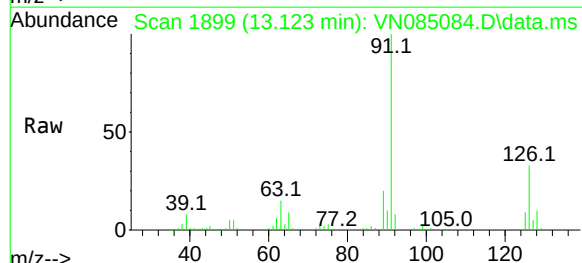
126 32.1 16.1 48.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#80

1,3,5-Trimethylbenzene

Concen: 58.550 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN085084.D

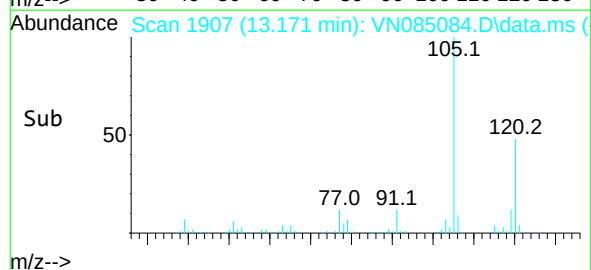
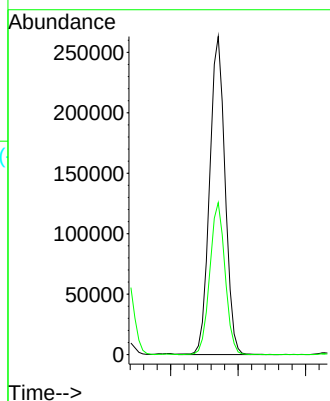
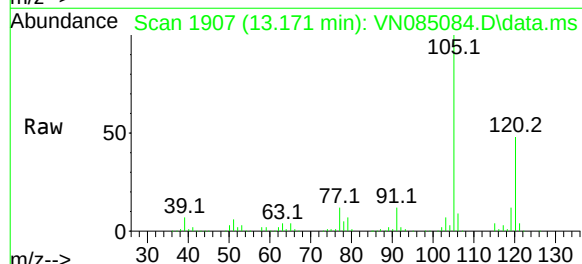
Acq: 04 Dec 2024 09:51

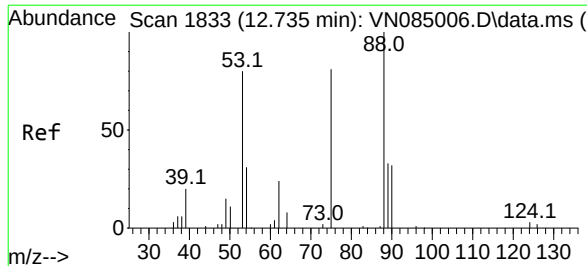
Tgt Ion:105 Resp: 418290

Ion Ratio Lower Upper

105 100

120 47.1 23.6 71.0





#81

trans-1,4-Dichloro-2-butene

Concen: 48.071 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 75 Resp: 47800

Ion Ratio Lower Upper

75 100

53 107.8 78.2 117.4

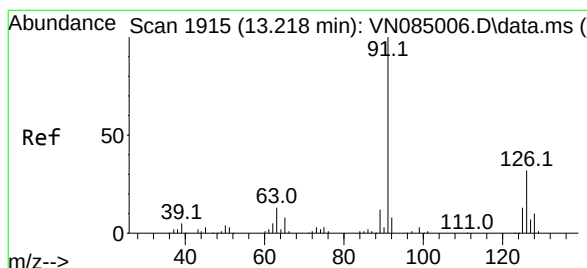
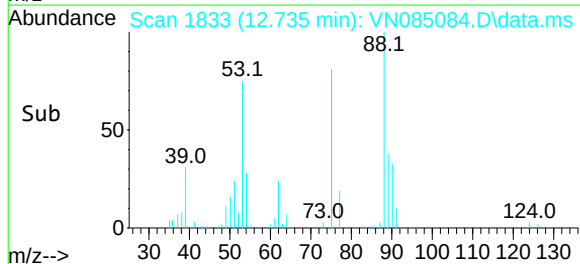
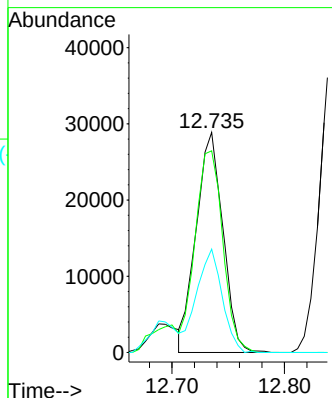
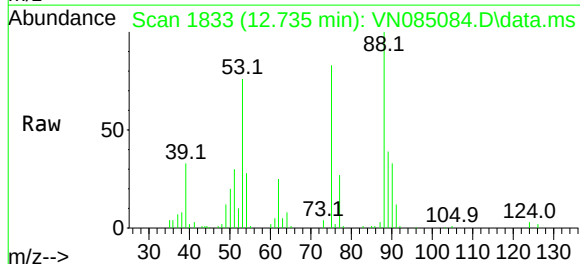
89 45.4 37.9 56.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#82

4-Chlorotoluene

Concen: 52.568 ug/l

RT: 13.218 min Scan# 1915

Delta R.T. -0.000 min

Lab File: VN085084.D

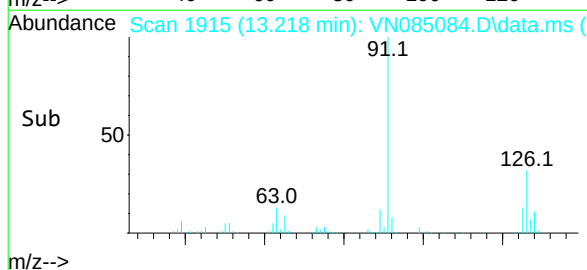
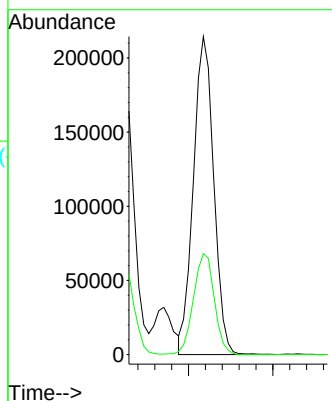
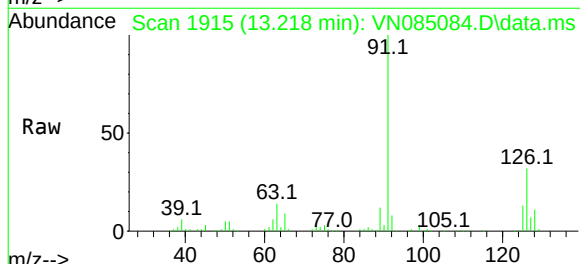
Acq: 04 Dec 2024 09:51

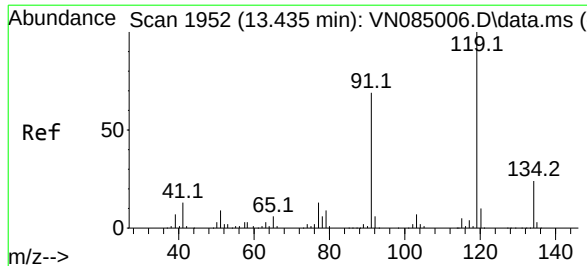
Tgt Ion: 91 Resp: 358728

Ion Ratio Lower Upper

91 100

126 32.5 16.1 48.3





#83

tert-Butylbenzene

Concen: 55.565 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:119 Resp: 341552

Ion Ratio Lower Upper

119 100

91 70.8 35.1 105.5

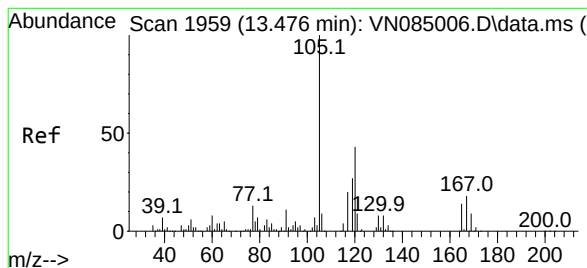
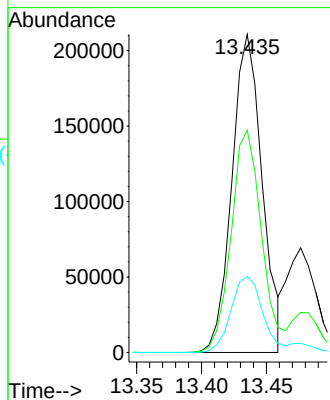
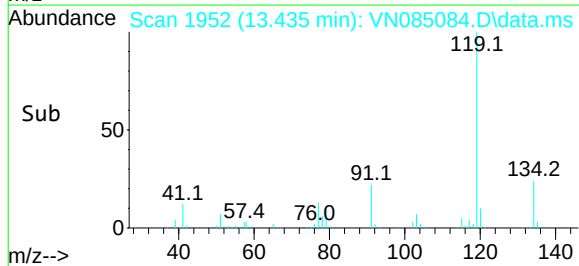
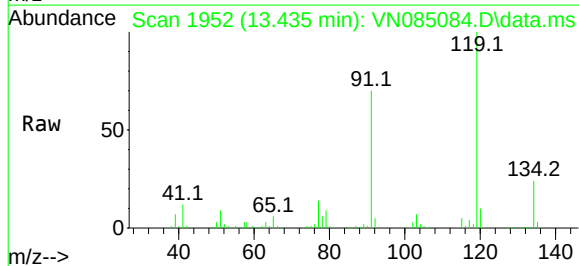
134 25.0 12.1 36.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#84

1,2,4-Trimethylbenzene

Concen: 56.791 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. -0.000 min

Lab File: VN085084.D

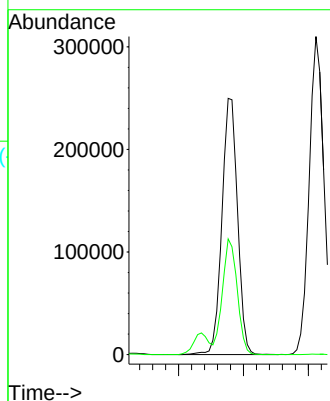
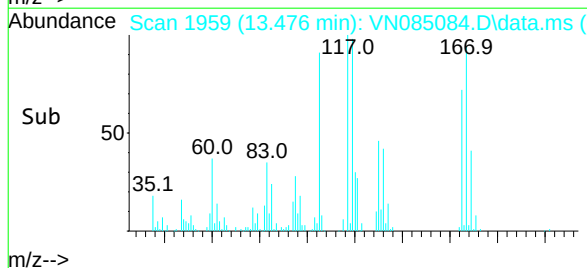
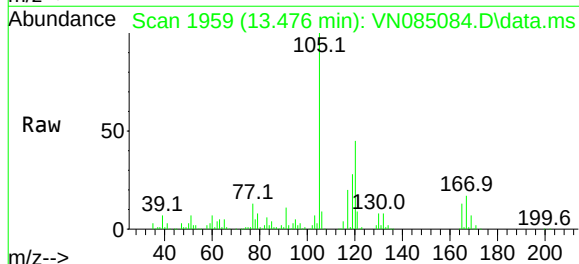
Acq: 04 Dec 2024 09:51

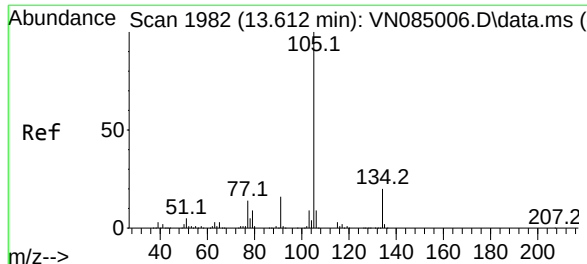
Tgt Ion:105 Resp: 417631

Ion Ratio Lower Upper

105 100

120 42.6 21.8 65.4





#85

sec-Butylbenzene

Concen: 58.655 ug/l

RT: 13.612 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:105 Resp: 487048

Ion Ratio Lower Upper

105 100

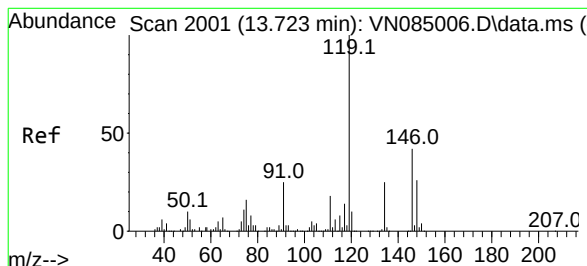
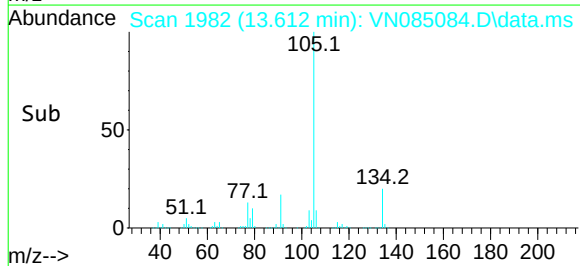
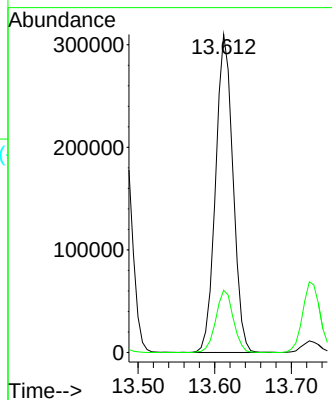
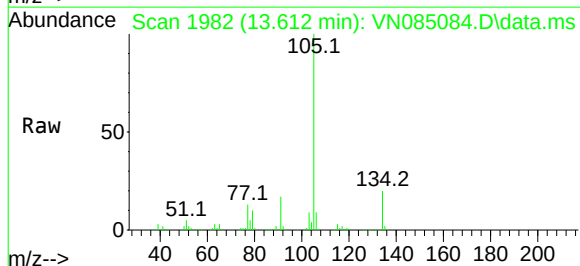
134 19.7 9.8 29.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#86

p-Isopropyltoluene

Concen: 59.772 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

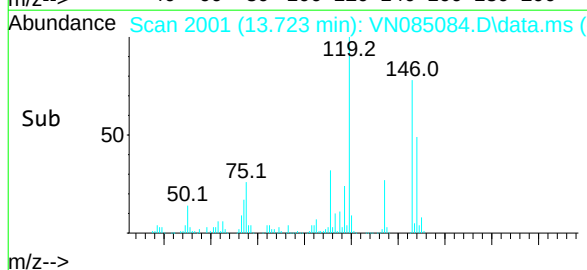
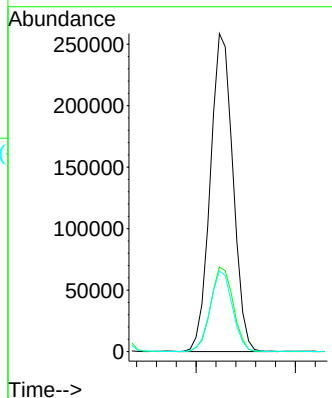
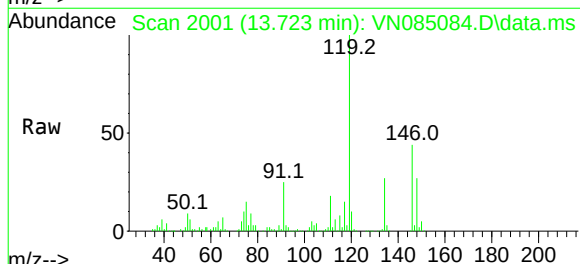
Tgt Ion:119 Resp: 409714

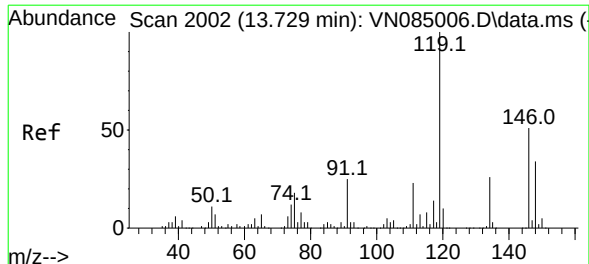
Ion Ratio Lower Upper

119 100

134 26.4 13.0 39.0

91 25.0 12.8 38.4





#87

1,3-Dichlorobenzene

Concen: 47.649 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

ClientSampleId :

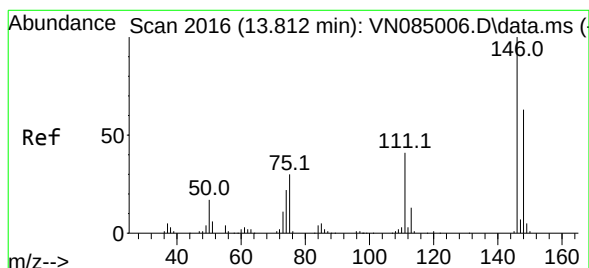
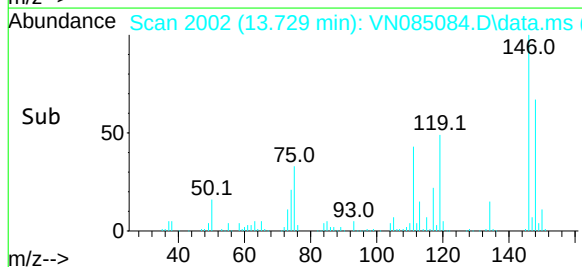
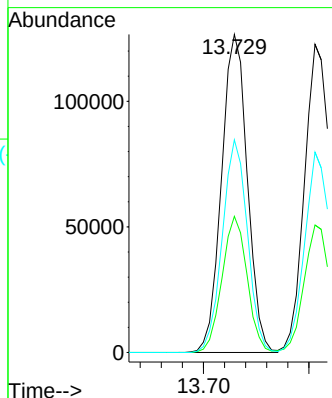
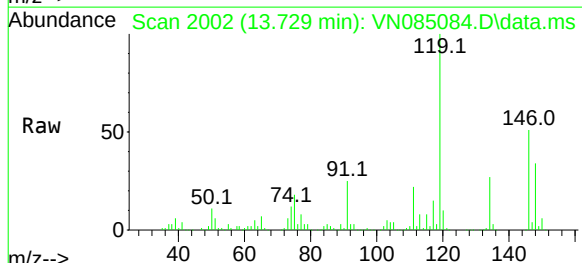
VSTDC050

Tgt Ion:	146	Resp:	215329
Ion Ratio	Lower	Upper	
146	100		
111	41.5	21.6	65.0
148	65.1	32.2	96.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#88

1,4-Dichlorobenzene

Concen: 45.711 ug/l

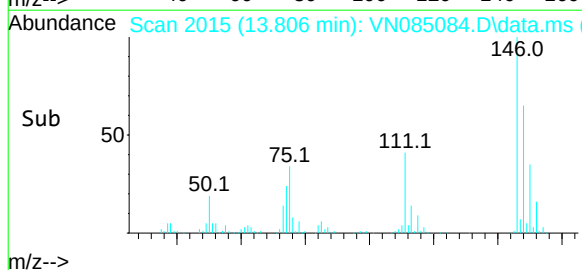
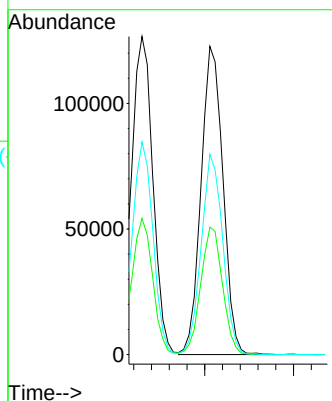
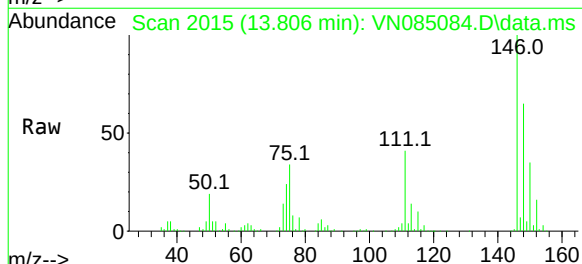
RT: 13.806 min Scan# 2015

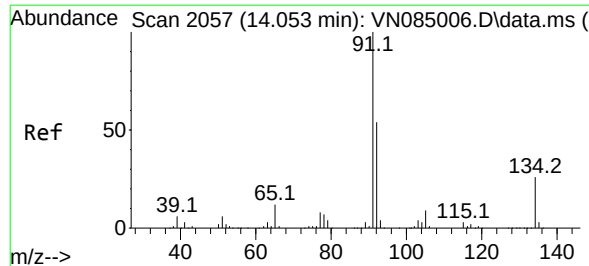
Delta R.T. -0.006 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Tgt Ion:	146	Resp:	210804
Ion Ratio	Lower	Upper	
146	100		
111	41.1	20.9	62.8
148	64.1	31.3	93.9





#89

n-Butylbenzene

Concen: 53.694 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

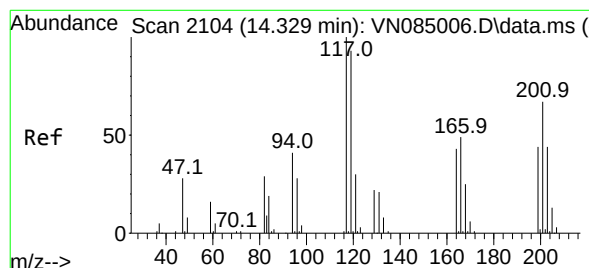
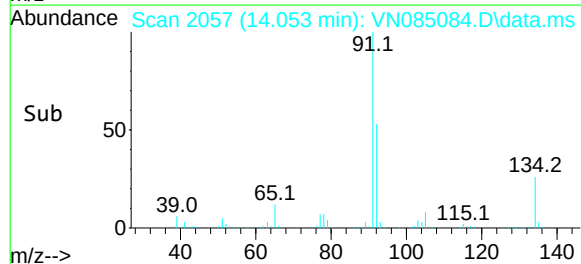
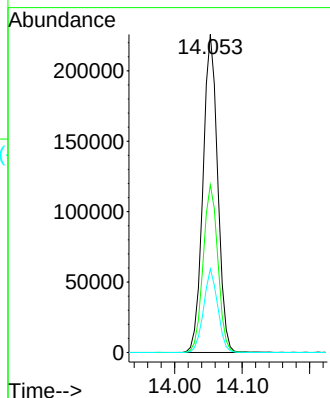
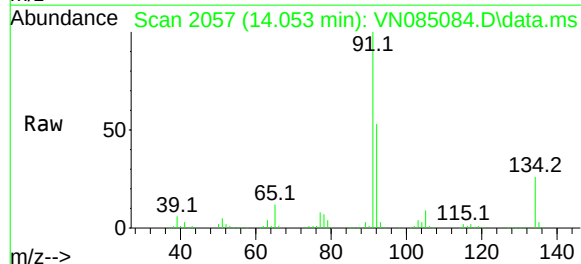
ClientSampleId :

VSTDCCC050

Tgt Ion:	91	Resp:	342277
Ion	Ratio	Lower	Upper
91	100		
92	52.5	26.8	80.3
134	25.1	12.8	38.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#90

Hexachloroethane

Concen: 50.475 ug/l

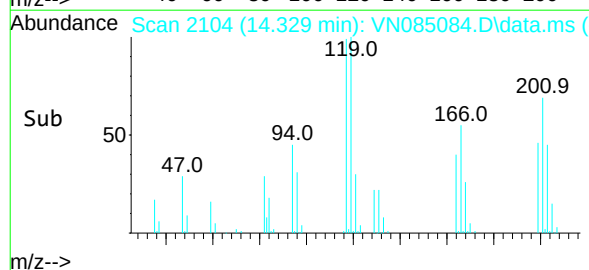
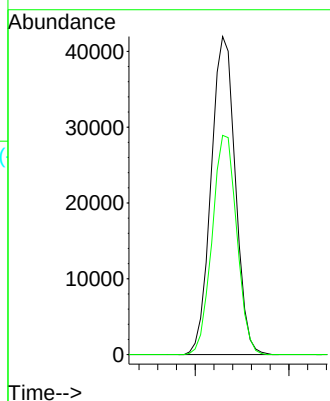
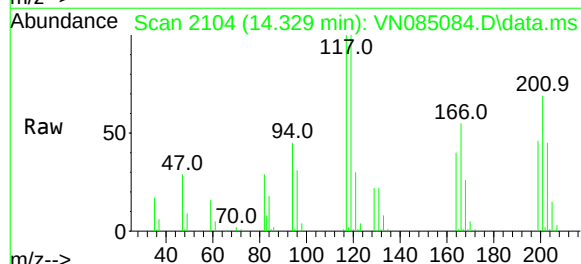
RT: 14.329 min Scan# 2104

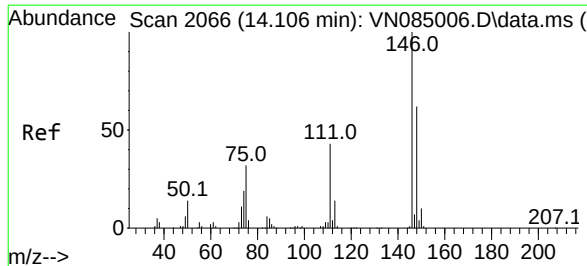
Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Tgt Ion:	117	Resp:	75416
Ion	Ratio	Lower	Upper
117	100		
201	70.0	35.2	105.6





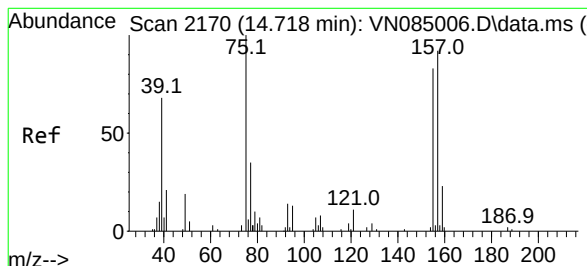
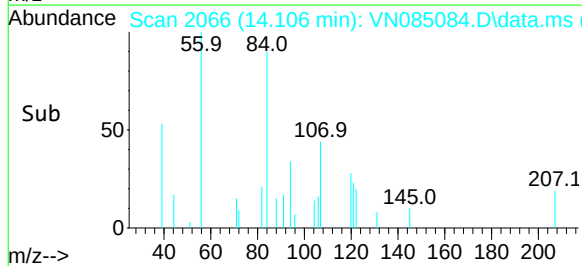
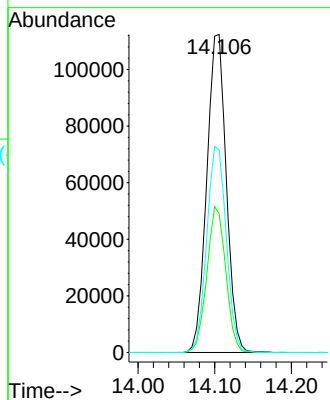
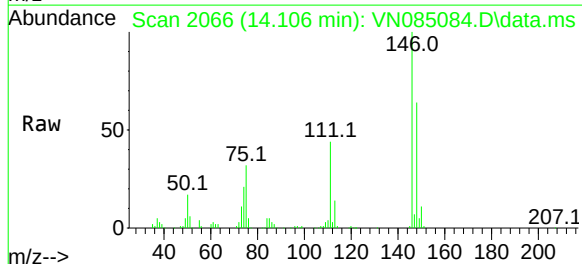
#91
1,2-Dichlorobenzene
Concen: 45.857 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN085084.D
Acq: 04 Dec 2024 09:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.4	21.9	65.8
148	65.1	31.1	93.2

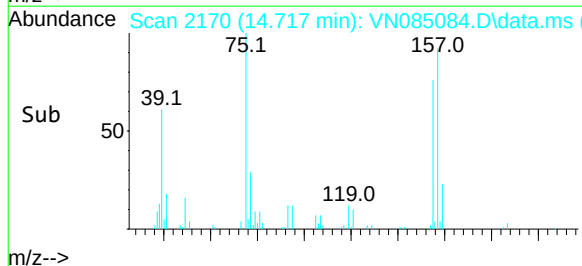
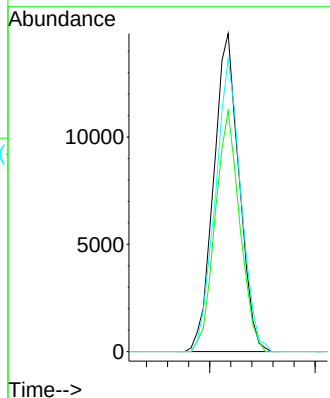
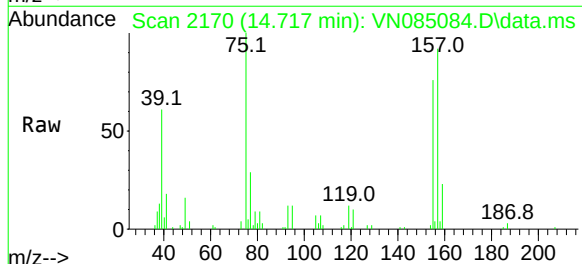
Manual Integrations
APPROVED

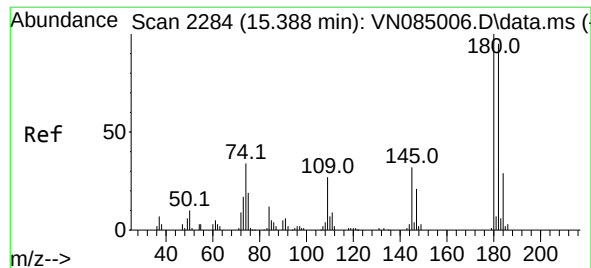
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#92
1,2-Dibromo-3-Chloropropane
Concen: 44.226 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN085084.D
Acq: 04 Dec 2024 09:51

Tgt Ion	Ratio	Lower	Upper
75	100		
155	73.1	38.9	116.7
157	92.4	48.3	144.9





#93

1,2,4-Trichlorobenzene

Concen: 42.543 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:180 Resp: 100085

Ion Ratio Lower Upper

180 100

182 98.8 46.9 140.8

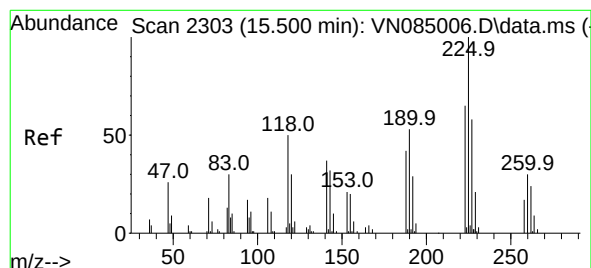
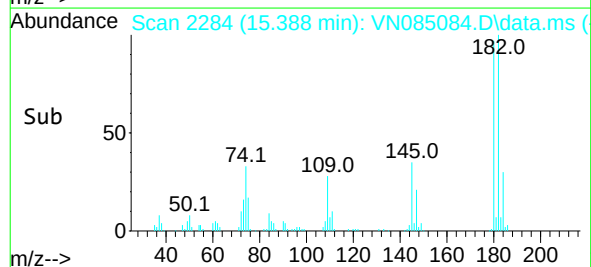
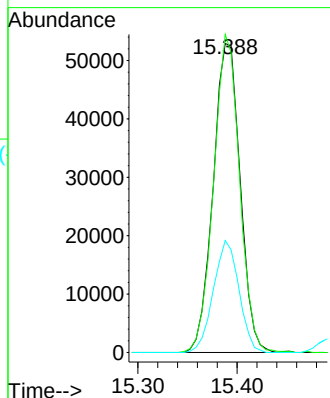
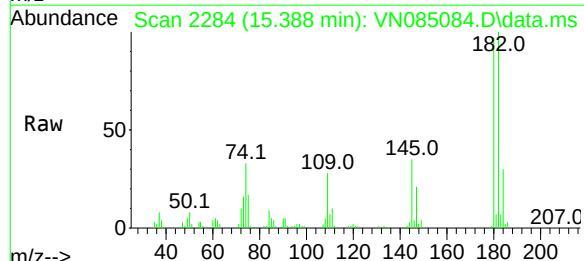
145 34.3 16.3 48.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#94

Hexachlorobutadiene

Concen: 47.587 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

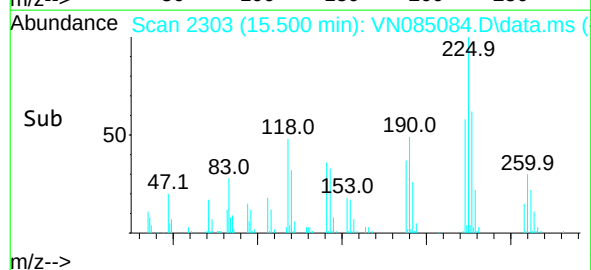
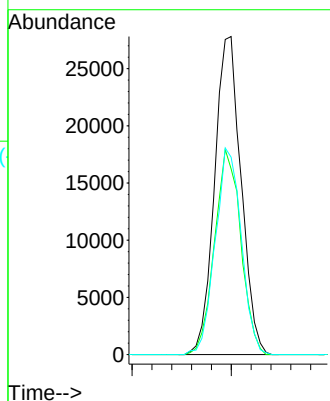
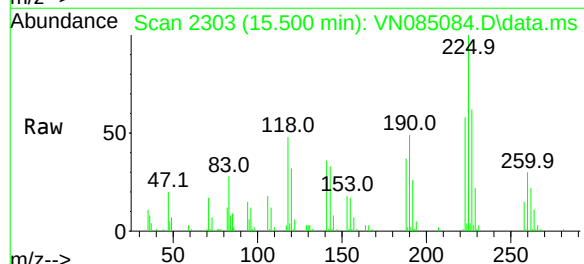
Tgt Ion:225 Resp: 51667

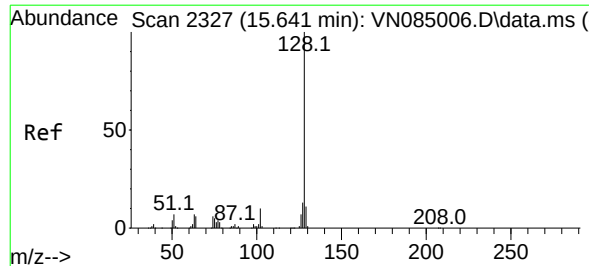
Ion Ratio Lower Upper

225 100

223 63.6 30.9 92.8

227 63.7 31.5 94.5





#95

Naphthalene

Concen: 41.554 ug/l

RT: 15.635 min Scan# 2327

Delta R.T. -0.006 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Instrument :

MSVOA_N

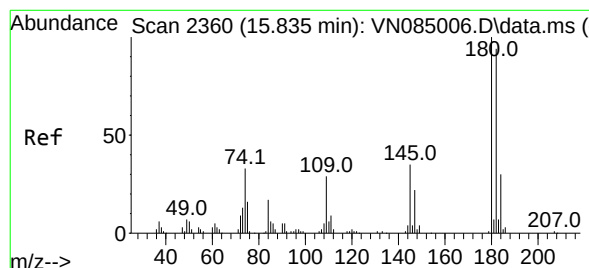
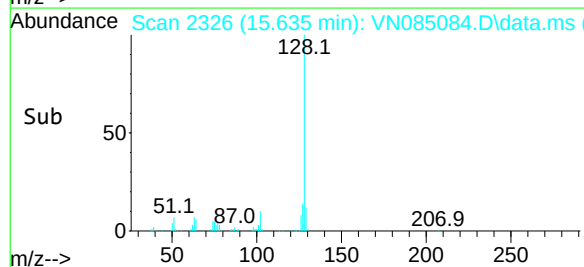
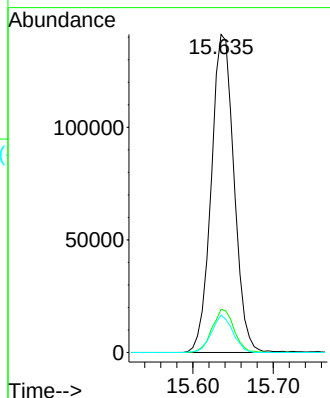
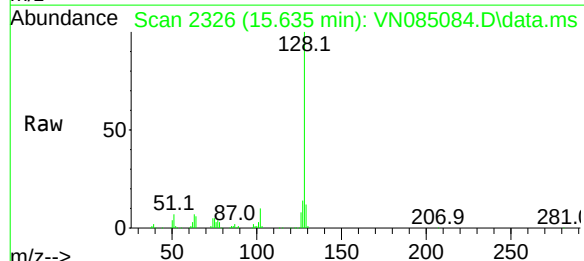
ClientSampleId :

VSTDC050

Tgt Ion:	128	Resp:	278427
Ion Ratio	Lower	Upper	
128	100		
127	13.1	10.6	16.0
129	10.9	8.6	12.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#96

1,2,3-Trichlorobenzene

Concen: 44.016 ug/l

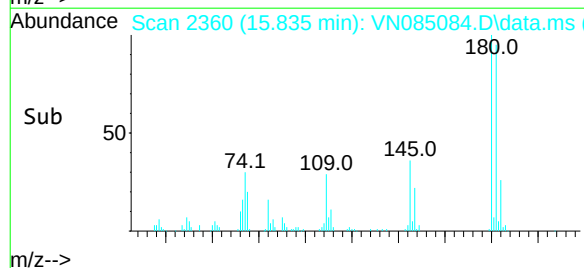
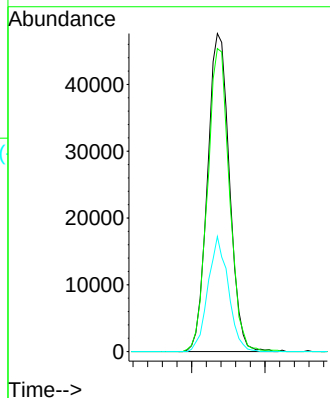
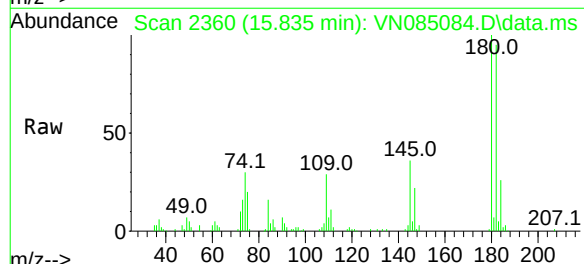
RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN085084.D

Acq: 04 Dec 2024 09:51

Tgt Ion:	180	Resp:	98804
Ion Ratio	Lower	Upper	
180	100		
182	95.0	46.4	139.2
145	33.7	17.3	52.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120424\
Data File : VN085084.D
Acq On : 04 Dec 2024 09:51
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Dec 04 22:00:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
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	109	0.00
2 T	Dichlorodifluoromethane	0.565	0.499	11.7	97	0.00
3 P	Chloromethane	0.656	0.548	16.5	101	0.00
4 C	Vinyl Chloride	0.589	0.564	4.2#	107	0.00
5 T	Bromomethane	0.330	0.379	-14.8	133	0.05
6 T	Chloroethane	0.397	0.362	8.8	105	0.06
7 T	Trichlorofluoromethane	1.002	0.979	2.3	111	0.04
8 T	Diethyl Ether	0.341	0.330	3.2	103	0.01
9 T	1,1,2-Trichlorotrifluoroeth	0.569	0.578	-1.6	115	0.02
10 T	Methyl Iodide	0.753	0.774	-2.8	113	0.01
11 T	Tert butyl alcohol	0.095	0.073	23.2	88	-0.04
12 CM	1,1-Dichloroethene	0.531	0.531	0.0	111	0.02
13 T	Acrolein	0.064	0.067	-4.7	104	0.01
14 T	Allyl chloride	0.895	0.753	15.9	93	0.02
15 T	Acrylonitrile	0.269	0.250	7.1	104	0.00
16 T	Acetone	0.207	0.290	-40.1#	156#	0.00
17 T	Carbon Disulfide	1.566	1.477	5.7	110	0.01
18 T	Methyl Acetate	0.804	0.604	24.9	101	0.00
19 T	Methyl tert-butyl Ether	1.734	1.741	-0.4	108	0.00
20 T	Methylene Chloride	0.633	0.594	6.2	110	0.00
21 T	trans-1,2-Dichloroethene	0.558	0.546	2.2	107	0.01
22 T	Diisopropyl ether	1.801	1.770	1.7	109	0.00
23 T	Vinyl Acetate	1.242	1.254	-1.0	106	0.00
24 P	1,1-Dichloroethane	1.078	1.062	1.5	111	0.00
25 T	2-Butanone	0.339	0.342	-0.9	113	0.00
26 T	2,2-Dichloropropane	1.006	1.008	-0.2	111	0.00
27 T	cis-1,2-Dichloroethene	0.673	0.664	1.3	110	0.00
28 T	Bromochloromethane	0.407	0.410	-0.7	113	0.00
29 T	Tetrahydrofuran	0.211	0.202	4.3	103	0.00
30 C	Chloroform	1.146	1.110	3.1#	110	0.00
31 T	Cyclohexane	0.949	0.915	3.6	113	0.00
32 T	1,1,1-Trichloroethane	1.036	1.044	-0.8	113	0.00
33 S	1,2-Dichloroethane-d4	0.712	0.711	0.1	110	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	103	0.00
35 S	Dibromofluoromethane	0.337	0.373	-10.7	113	0.00
36 T	1,1-Dichloropropene	0.457	0.495	-8.3	112	0.00
37 T	Ethyl Acetate	0.415	0.437	-5.3	112	0.00
38 T	Carbon Tetrachloride	0.527	0.593	-12.5	114	0.00
39 T	Methylcyclohexane	0.475	0.555	-16.8	113	0.00
40 TM	Benzene	1.444	1.542	-6.8	112	0.00
41 T	Methacrylonitrile	0.230	0.240	-4.3	107	0.00
42 TM	1,2-Dichloroethane	0.494	0.521	-5.5	112	0.00
43 T	Isopropyl Acetate	0.862	0.726	15.8	99	0.00
44 TM	Trichloroethene	0.336	0.364	-8.3	115	0.00
45 C	1,2-Dichloropropane	0.356	0.378	-6.2#	112	0.00
46 T	Dibromomethane	0.247	0.261	-5.7	110	0.00
47 T	Bromodichloromethane	0.524	0.564	-7.6	111	0.00
48 T	Methyl methacrylate	0.321	0.347	-8.1	109	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120424\
Data File : VN085084.D
Acq On : 04 Dec 2024 09:51
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Dec 04 22:00:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.006	0.006	0.0	104	0.00
50 S	Toluene-d8	1.208	1.300	-7.6	107	0.00
51 T	4-Methyl-2-Pentanone	0.394	0.429	-8.9	109	0.00
52 CM	Toluene	0.855	0.961	-12.4#	112	0.00
53 T	t-1,3-Dichloropropene	0.525	0.565	-7.6	106	0.00
54 T	cis-1,3-Dichloropropene	0.557	0.605	-8.6	108	0.00
55 T	1,1,2-Trichloroethane	0.319	0.346	-8.5	111	0.00
56 T	Ethyl methacrylate	0.465	0.537	-15.5	107	0.00
57 T	1,3-Dichloropropane	0.561	0.602	-7.3	111	0.00
58 T	2-Chloroethyl Vinyl ether	0.228	0.263	-15.4	100	0.00
59 T	2-Hexanone	0.295	0.326	-10.5	107	0.00
60 T	Dibromochloromethane	0.389	0.416	-6.9	111	0.00
61 T	1,2-Dibromoethane	0.330	0.353	-7.0	110	0.00
62 S	4-Bromofluorobenzene	0.452	0.491	-8.6	108	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	106	0.00
64 T	Tetrachloroethene	0.337	0.367	-8.9	118	0.00
65 PM	Chlorobenzene	1.134	1.171	-3.3	113	0.00
66 T	1,1,1,2-Tetrachloroethane	0.399	0.434	-8.8	115	0.00
67 C	Ethyl Benzene	1.840	2.098	-14.0#	114	0.00
68 T	m/p-Xylenes	0.700	0.813	-16.1	117	0.00
69 T	o-Xylene	0.666	0.755	-13.4	113	0.00
70 T	Styrene	1.108	1.316	-18.8	116	0.00
71 P	Bromoform	0.296	0.312	-5.4	107	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00
73 T	Isopropylbenzene	3.527	4.007	-13.6	116	0.00
74 T	N-amyl acetate	1.454	1.461	-0.5	99	0.00
75 P	1,1,2,2-Tetrachloroethane	1.204	1.125	6.6	108	0.00
76 T	1,2,3-Trichloropropane	0.909	1.016	-11.8	119	0.00
77 T	Bromobenzene	0.949	0.987	-4.0	113	0.00
78 T	n-propylbenzene	4.068	4.790	-17.7	119	0.00
79 T	2-Chlorotoluene	2.716	2.962	-9.1	117	0.00
80 T	1,3,5-Trimethylbenzene	2.960	3.466	-17.1	116	0.00
81 T	trans-1,4-Dichloro-2-butene	0.412	0.396	3.9	102	0.00
82 T	4-Chlorotoluene	2.827	2.972	-5.1	113	0.00
83 T	tert-Butylbenzene	2.547	2.830	-11.1	113	0.00
84 T	1,2,4-Trimethylbenzene	3.047	3.461	-13.6	113	0.00
85 T	sec-Butylbenzene	3.440	4.036	-17.3	116	0.00
86 T	p-Isopropyltoluene	2.840	3.395	-19.5	116	0.00
87 T	1,3-Dichlorobenzene	1.872	1.784	4.7	110	0.00
88 T	1,4-Dichlorobenzene	1.911	1.747	8.6	105	0.00
89 T	n-Butylbenzene	2.641	2.836	-7.4	112	0.00
90 T	Hexachloroethane	0.619	0.625	-1.0	109	0.00
91 T	1,2-Dichlorobenzene	1.794	1.645	8.3	103	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.233	0.206	11.6	99	0.00
93 T	1,2,4-Trichlorobenzene	0.975	0.829	15.0	97	0.00
94 T	Hexachlorobutadiene	0.450	0.428	4.9	112	0.00
95 T	Naphthalene	2.776	2.307	16.9	86	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120424\
Data File : VN085084.D
Acq On : 04 Dec 2024 09:51
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Dec 04 22:00:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
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	0.930	0.819	11.9	96	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 5

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120424\
Data File : VN085084.D
Acq On : 04 Dec 2024 09:51
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Dec 04 22:00:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
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	109	0.00
2 T	Dichlorodifluoromethane	50.000	44.125	11.8	97	0.00
3 P	Chloromethane	50.000	41.781	16.4	101	0.00
4 C	Vinyl Chloride	50.000	47.874	4.3#	107	0.00
5 T	Bromomethane	50.000	57.360	-14.7	133	0.05
6 T	Chloroethane	50.000	45.576	8.8	105	0.06
7 T	Trichlorofluoromethane	50.000	48.844	2.3	111	0.04
8 T	Diethyl Ether	50.000	48.354	3.3	103	0.01
9 T	1,1,2-Trichlorotrifluoroeth	50.000	50.816	-1.6	115	0.02
10 T	Methyl Iodide	50.000	51.437	-2.9	113	0.01
11 T	Tert butyl alcohol	250.000	190.969	23.6	88	-0.04
12 CM	1,1-Dichloroethene	50.000	49.991	0.0#	111	0.02
13 T	Acrolein	250.000	262.190	-4.9	104	0.01
14 T	Allyl chloride	50.000	42.077	15.8	93	0.02
15 T	Acrylonitrile	250.000	232.263	7.1	104	0.00
16 T	Acetone	250.000	349.014	-39.6#	156	0.00
17 T	Carbon Disulfide	50.000	47.130	5.7	110	0.01
18 T	Methyl Acetate	50.000	45.481	9.0	101	0.00
19 T	Methyl tert-butyl Ether	50.000	50.189	-0.4	108	0.00
20 T	Methylene Chloride	50.000	46.925	6.2	110	0.00
21 T	trans-1,2-Dichloroethene	50.000	48.883	2.2	107	0.01
22 T	Diisopropyl ether	50.000	49.142	1.7	109	0.00
23 T	Vinyl Acetate	250.000	252.461	-1.0	106	0.00
24 P	1,1-Dichloroethane	50.000	49.264	1.5	111	0.00
25 T	2-Butanone	250.000	252.224	-0.9	113	0.00
26 T	2,2-Dichloropropane	50.000	50.098	-0.2	111	0.00
27 T	cis-1,2-Dichloroethene	50.000	49.311	1.4	110	0.00
28 T	Bromochloromethane	50.000	50.417	-0.8	113	0.00
29 T	Tetrahydrofuran	250.000	239.866	4.1	103	0.00
30 C	Chloroform	50.000	48.440	3.1#	110	0.00
31 T	Cyclohexane	50.000	48.224	3.6	113	0.00
32 T	1,1,1-Trichloroethane	50.000	50.416	-0.8	113	0.00
33 S	1,2-Dichloroethane-d4	50.000	49.934	0.1	110	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	103	0.00
35 S	Dibromofluoromethane	50.000	55.313	-10.6	113	0.00
36 T	1,1-Dichloropropene	50.000	54.146	-8.3	112	0.00
37 T	Ethyl Acetate	50.000	52.667	-5.3	112	0.00
38 T	Carbon Tetrachloride	50.000	56.206	-12.4	114	0.00
39 T	Methylcyclohexane	50.000	58.513	-17.0	113	0.00
40 TM	Benzene	50.000	53.378	-6.8	112	0.00
41 T	Methacrylonitrile	50.000	52.149	-4.3	107	0.00
42 TM	1,2-Dichloroethane	50.000	52.698	-5.4	112	0.00
43 T	Isopropyl Acetate	50.000	42.066	15.9	99	0.00
44 TM	Trichloroethene	50.000	54.222	-8.4	115	0.00
45 C	1,2-Dichloropropane	50.000	53.172	-6.3#	112	0.00
46 T	Dibromomethane	50.000	52.808	-5.6	110	0.00
47 T	Bromodichloromethane	50.000	53.783	-7.6	111	0.00
48 T	Methyl methacrylate	50.000	54.015	-8.0	109	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120424\
Data File : VN085084.D
Acq On : 04 Dec 2024 09:51
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Dec 04 22:00:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
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	1057.785	-5.8	104	0.00
50 S	Toluene-d8	50.000	53.797	-7.6	107	0.00
51 T	4-Methyl-2-Pentanone	250.000	272.294	-8.9	109	0.00
52 CM	Toluene	50.000	56.211	-12.4#	112	0.00
53 T	t-1,3-Dichloropropene	50.000	53.756	-7.5	106	0.00
54 T	cis-1,3-Dichloropropene	50.000	54.270	-8.5	108	0.00
55 T	1,1,2-Trichloroethane	50.000	54.351	-8.7	111	0.00
56 T	Ethyl methacrylate	50.000	57.649	-15.3	107	0.00
57 T	1,3-Dichloropropane	50.000	53.689	-7.4	111	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	288.021	-15.2	100	0.00
59 T	2-Hexanone	250.000	276.238	-10.5	107	0.00
60 T	Dibromochloromethane	50.000	53.434	-6.9	111	0.00
61 T	1,2-Dibromoethane	50.000	53.580	-7.2	110	0.00
62 S	4-Bromofluorobenzene	50.000	54.361	-8.7	108	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	106	0.00
64 T	Tetrachloroethene	50.000	54.455	-8.9	118	0.00
65 PM	Chlorobenzene	50.000	51.624	-3.2	113	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	54.373	-8.7	115	0.00
67 C	Ethyl Benzene	50.000	57.021	-14.0#	114	0.00
68 T	m/p-Xylenes	100.000	116.086	-16.1	117	0.00
69 T	o-Xylene	50.000	56.698	-13.4	113	0.00
70 T	Styrene	50.000	59.382	-18.8	116	0.00
71 P	Bromoform	50.000	52.681	-5.4	107	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	105	0.00
73 T	Isopropylbenzene	50.000	56.804	-13.6	116	0.00
74 T	N-amyl acetate	50.000	50.241	-0.5	99	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	46.696	6.6	108	0.00
76 T	1,2,3-Trichloropropane	50.000	55.856	-11.7	119	0.00
77 T	Bromobenzene	50.000	51.983	-4.0	113	0.00
78 T	n-propylbenzene	50.000	58.869	-17.7	119	0.00
79 T	2-Chlorotoluene	50.000	54.537	-9.1	117	0.00
80 T	1,3,5-Trimethylbenzene	50.000	58.550	-17.1	116	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	48.071	3.9	102	0.00
82 T	4-Chlorotoluene	50.000	52.568	-5.1	113	0.00
83 T	tert-Butylbenzene	50.000	55.565	-11.1	113	0.00
84 T	1,2,4-Trimethylbenzene	50.000	56.791	-13.6	113	0.00
85 T	sec-Butylbenzene	50.000	58.655	-17.3	116	0.00
86 T	p-Isopropyltoluene	50.000	59.772	-19.5	116	0.00
87 T	1,3-Dichlorobenzene	50.000	47.649	4.7	110	0.00
88 T	1,4-Dichlorobenzene	50.000	45.711	8.6	105	0.00
89 T	n-Butylbenzene	50.000	53.694	-7.4	112	0.00
90 T	Hexachloroethane	50.000	50.475	-1.0	109	0.00
91 T	1,2-Dichlorobenzene	50.000	45.857	8.3	103	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	44.226	11.5	99	0.00
93 T	1,2,4-Trichlorobenzene	50.000	42.543	14.9	97	0.00
94 T	Hexachlorobutadiene	50.000	47.587	4.8	112	0.00
95 T	Naphthalene	50.000	41.554	16.9	86	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120424\
Data File : VN085084.D
Acq On : 04 Dec 2024 09:51
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Dec 04 22:00:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
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	44.016	12.0	96	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.: P5088 SAS No.: P5088 SDG No.: P5088

Instrument ID: MSVOA_N Calibration Date/Time: 12/05/2024 10:50

Lab File ID: VN085106.D Init. Calib. Date(s): 11/22/2024 11/22/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:22 13:45

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.589	0.551		-6.45	20
1,1-Dichloroethene	0.531	0.523		-1.51	20
Methylene Chloride	0.633	0.608		-3.95	20
trans-1,2-Dichloroethene	0.558	0.573		2.69	20
1,1-Dichloroethane	1.078	1.074	0.1	-0.37	20
Carbon Tetrachloride	0.527	0.576		9.3	20
cis-1,2-Dichloroethene	0.673	0.686		1.93	20
1,1,1-Trichloroethane	1.036	1.038		0.19	20
Trichloroethene	0.336	0.369		9.82	20
1,1,2-Trichloroethane	0.319	0.354		10.97	20
Tetrachloroethene	0.337	0.375		11.28	20
1,2,3-Trichloropropane	0.909	0.936		2.97	20
1,2-Dichloroethane-d4	0.712	0.680		-4.49	20
Dibromofluoromethane	0.337	0.345		2.37	20
Toluene-d8	1.208	1.216		0.66	20
4-Bromofluorobenzene	0.452	0.465		2.88	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\VN120524\
Data File : VN085106.D
Acq On : 05 Dec 2024 10:50
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Quant Time: Dec 06 00:43:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	172189	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	277520	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	243369	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	121642	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	117039	47.718	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	95.440%
35) Dibromofluoromethane	8.165	113	95786	51.181	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	102.360%
50) Toluene-d8	10.565	98	337580	50.332	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	100.660%
62) 4-Bromofluorobenzene	12.847	95	129048	51.450	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	102.900%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.124	85	83438	42.854	ug/l 97
3) Chloromethane	2.359	50	90281	39.978	ug/l 95
4) Vinyl Chloride	2.512	62	94838	46.732	ug/l 98
5) Bromomethane	2.947	94	59893	52.655	ug/l 98
6) Chloroethane	3.112	64	59875	43.772	ug/l 97
7) Trichlorofluoromethane	3.494	101	167941	48.647	ug/l 94
8) Diethyl Ether	3.959	74	58620	49.889	ug/l 98
9) 1,1,2-Trichlorotrifluo...	4.371	101	98729	50.424	ug/l 98
10) Methyl Iodide	4.589	142	130409	50.317	ug/l 95
11) Tert butyl alcohol	5.524	59	88844	271.065	ug/l 96
12) 1,1-Dichloroethene	4.341	96	90135	49.319	ug/l 98
13) Acrolein	4.183	56	61647	281.874	ug/l 98
14) Allyl chloride	5.024	41	138762	45.038	ug/l 96
15) Acrylonitrile	5.712	53	241979	260.771	ug/l 99
16) Acetone	4.430	43	198000	277.185	ug/l 98
17) Carbon Disulfide	4.712	76	253182	46.934	ug/l 99
18) Methyl Acetate	5.024	43	117849	51.655	ug/l 100
19) Methyl tert-butyl Ether	5.794	73	309917	51.900	ug/l 99
20) Methylene Chloride	5.271	84	104663	48.016	ug/l 98
21) trans-1,2-Dichloroethene	5.783	96	98740	51.340	ug/l 93
22) Diisopropyl ether	6.665	45	312149	50.339	ug/l 97
23) Vinyl Acetate	6.600	43	1148687	268.517	ug/l 99
24) 1,1-Dichloroethane	6.565	63	184858	49.816	ug/l 98
25) 2-Butanone	7.482	43	312314	267.424	ug/l 96
26) 2,2-Dichloropropane	7.488	77	172307	49.728	ug/l 99
27) cis-1,2-Dichloroethene	7.482	96	118084	50.930	ug/l 98
28) Bromochloromethane	7.812	49	69042	49.289	ug/l 97
29) Tetrahydrofuran	7.835	42	201571	277.549	ug/l 99
30) Chloroform	7.959	83	197859	50.125	ug/l 96
31) Cyclohexane	8.253	56	157523	48.214	ug/l 99
32) 1,1,1-Trichloroethane	8.165	97	178752	50.113	ug/l 99
36) 1,1-Dichloropropene	8.371	75	133948	52.841	ug/l 99
37) Ethyl Acetate	7.559	43	127024	55.119	ug/l 98
38) Carbon Tetrachloride	8.359	117	159837	54.625	ug/l 97
39) Methylcyclohexane	9.600	83	148190	56.257	ug/l 97
40) Benzene	8.600	78	421843	52.615	ug/l 98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120524\
 Data File : VN085106.D
 Acq On : 05 Dec 2024 10:50
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024

Quant Time: Dec 06 00:43:00 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M

Quant Title : SW846 8260

QLast Update : Sat Nov 23 02:54:10 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	70138	54.969	ug/l	99
42) 1,2-Dichloroethane	8.671	62	143242	52.223	ug/l	100
43) Isopropyl Acetate	8.688	43	225782	47.167	ug/l	99
44) Trichloroethene	9.353	130	102382	54.949	ug/l	93
45) 1,2-Dichloropropane	9.618	63	102424	51.867	ug/l	93
46) Dibromomethane	9.706	93	73451	53.529	ug/l	99
47) Bromodichloromethane	9.882	83	157150	54.037	ug/l	99
48) Methyl methacrylate	9.676	41	104942	58.913	ug/l	97
49) 1,4-Dioxane	9.694	88	36818	1191.861	ug/l #	96
51) 4-Methyl-2-Pentanone	10.441	43	660276	301.988	ug/l	99
52) Toluene	10.629	92	265830	56.007	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	158454	54.346	ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	172051	55.623	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	98272	55.586	ug/l	98
56) Ethyl methacrylate	10.871	69	159812	61.862	ug/l	100
57) 1,3-Dichloropropane	11.159	76	169248	54.394	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	382201	301.608	ug/l	100
59) 2-Hexanone	11.194	43	498881	305.080	ug/l	100
60) Dibromochloromethane	11.359	129	122183	56.549	ug/l	98
61) 1,2-Dibromoethane	11.465	107	101911	55.700	ug/l	97
64) Tetrachloroethene	11.100	164	91195	55.611	ug/l	96
65) Chlorobenzene	11.888	112	289150	52.389	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	104936	54.000	ug/l	99
67) Ethyl Benzene	11.965	91	509621	56.913	ug/l	99
68) m/p-Xylenes	12.065	106	390678	114.598	ug/l	100
69) o-Xylene	12.394	106	186397	57.479	ug/l	99
70) Styrene	12.412	104	323742	60.032	ug/l	99
71) Bromoform	12.576	173	82680	57.318	ug/l #	97
73) Isopropylbenzene	12.694	105	478913	55.808	ug/l	99
74) N-amyl acetate	12.494	43	196824	55.660	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	141042	48.131	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	113903m	51.480	ug/l	
77) Bromobenzene	12.976	156	118421	51.280	ug/l	99
78) n-propylbenzene	13.035	91	574922	58.085	ug/l	100
79) 2-Chlorotoluene	13.123	91	348747	52.782	ug/l	98
80) 1,3,5-Trimethylbenzene	13.170	105	421776	58.573	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	53465	53.344	ug/l	97
82) 4-Chlorotoluene	13.217	91	356145	51.778	ug/l	99
83) tert-Butylbenzene	13.435	119	358938	57.933	ug/l	95
84) 1,2,4-Trimethylbenzene	13.482	105	416931	56.249	ug/l	100
85) sec-Butylbenzene	13.611	105	487955	58.301	ug/l	99
86) p-Isopropyltoluene	13.729	119	409711	59.300	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	215067	47.216	ug/l	99
88) 1,4-Dichlorobenzene	13.811	146	217095	46.704	ug/l	99
89) n-Butylbenzene	14.053	91	348839	54.292	ug/l	99
90) Hexachloroethane	14.329	117	77396	51.391	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	204061	46.752	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	27912	49.258	ug/l	98
93) 1,2,4-Trichlorobenzene	15.394	180	108110	45.592	ug/l	99
94) Hexachlorobutadiene	15.500	225	52424	47.904	ug/l	99
95) Naphthalene	15.641	128	335399	49.662	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	105534	46.644	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120524\
Data File : VN085106.D
Acq On : 05 Dec 2024 10:50
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 06 00:43:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024

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

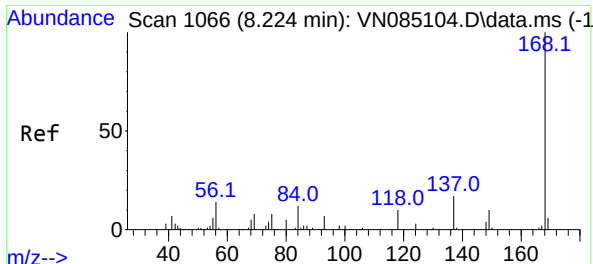
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

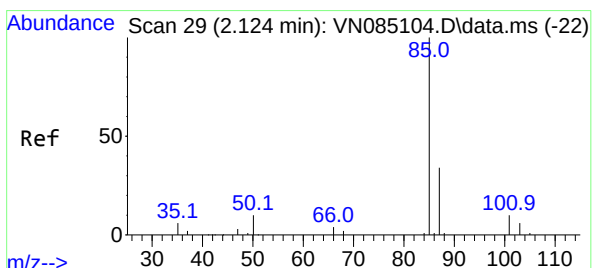
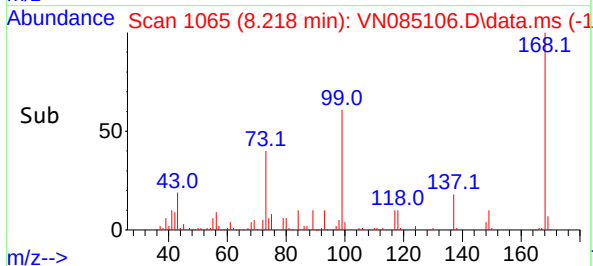
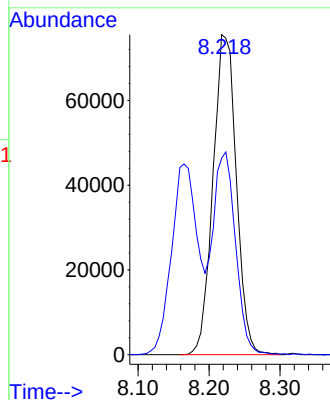
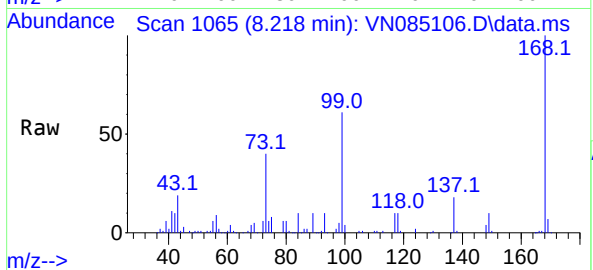
Tgt Ion:168 Resp: 172189
Ion Ratio Lower Upper
168 100
99 61.2 51.2 76.8

Manual Integrations

APPROVED

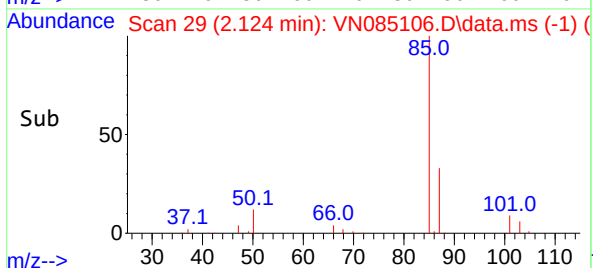
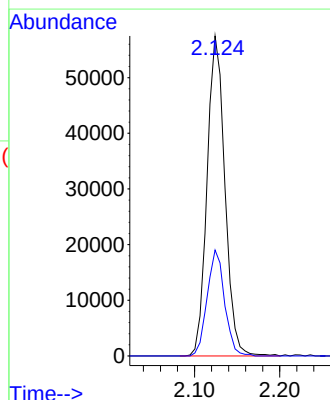
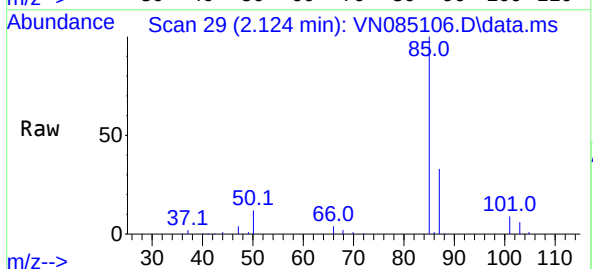
Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024

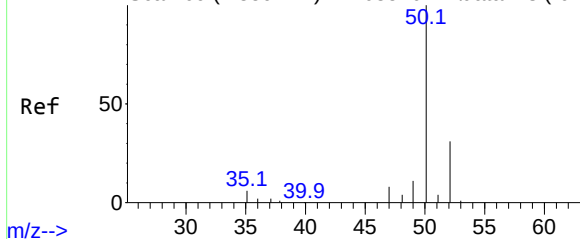


#2
Dichlorodifluoromethane
Concen: 42.854 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.006 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

Tgt Ion: 85 Resp: 83438
Ion Ratio Lower Upper
85 100
87 33.1 15.7 47.1



Abundance Scan 69 (2.359 min): VN085104.D\data.ms (-62)



#3

Chloromethane

Concen: 39.978 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.000 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 50 Resp: 9028

Ion Ratio Lower Upper

50 100

52 37.5 27.8 41.8

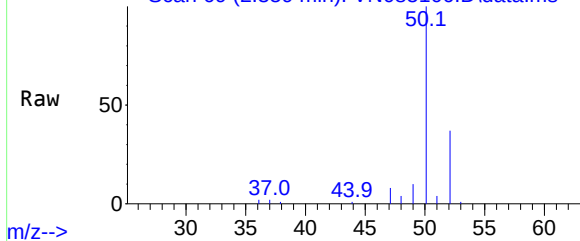
Manual Integrations

APPROVED

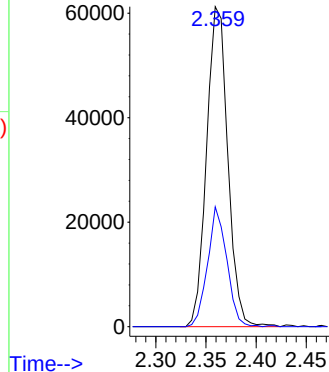
Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024

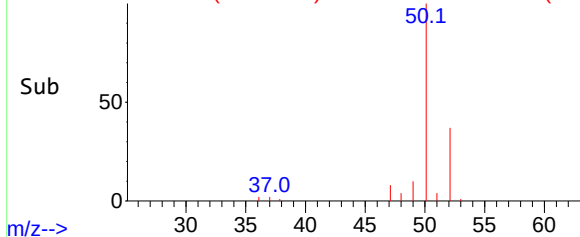
Abundance Scan 69 (2.359 min): VN085106.D\data.ms



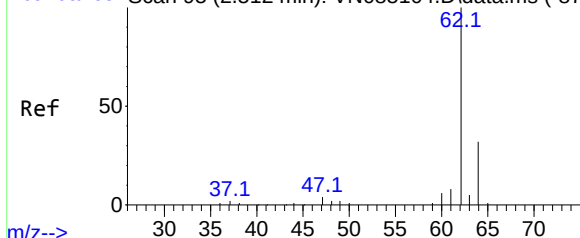
Abundance



Abundance Scan 69 (2.359 min): VN085106.D\data.ms (-18)



Abundance Scan 95 (2.512 min): VN085104.D\data.ms (-87)



#4

Vinyl Chloride

Concen: 46.732 ug/l

RT: 2.512 min Scan# 95

Delta R.T. -0.000 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

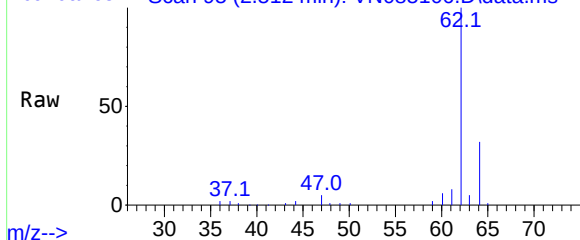
Tgt Ion: 62 Resp: 94838

Ion Ratio Lower Upper

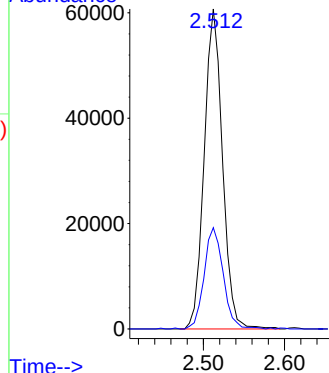
62 100

64 31.6 24.6 36.8

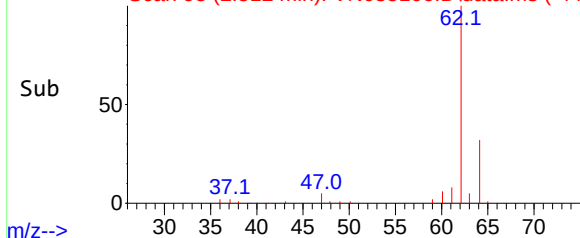
Abundance Scan 95 (2.512 min): VN085106.D\data.ms

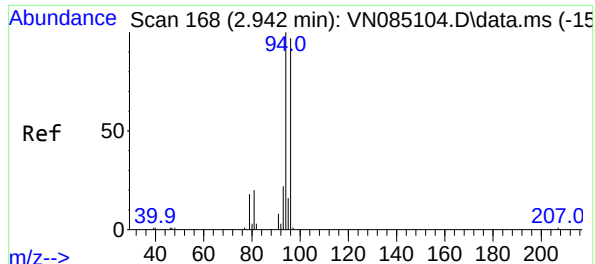


Abundance



Abundance Scan 95 (2.512 min): VN085106.D\data.ms (-44)





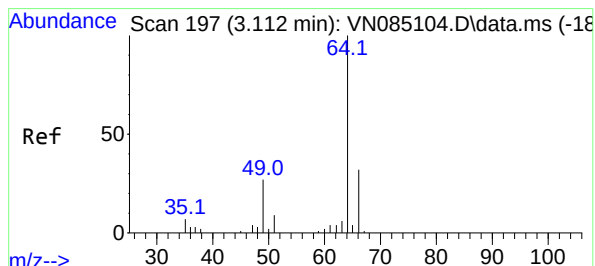
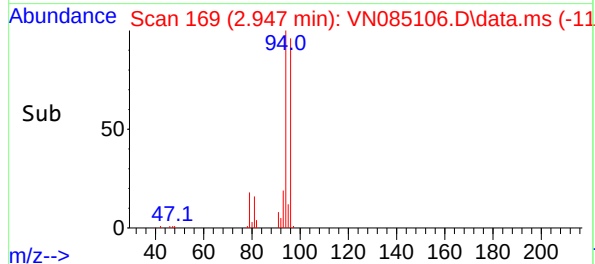
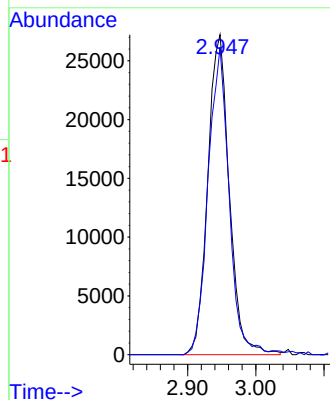
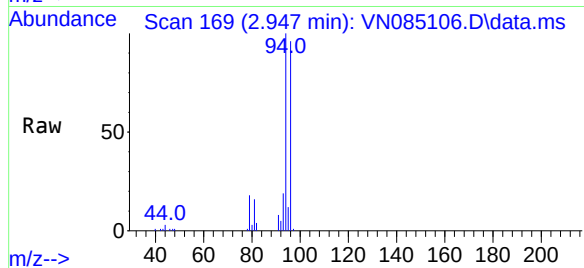
#5
Bromomethane
Concen: 52.655 ug/l
RT: 2.947 min Scan# 169
Delta R.T. 0.047 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 5989
Ion Ratio Lower Upper
94 100
96 96.0 78.7 118.1

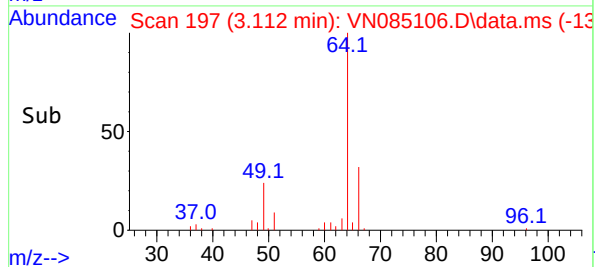
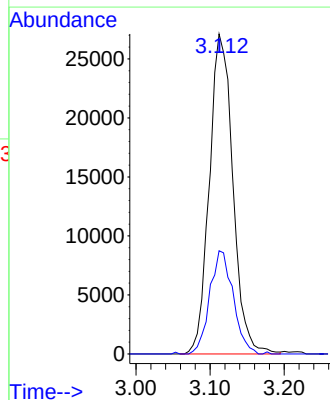
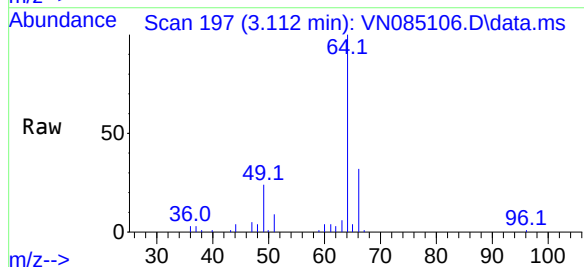
Manual Integrations
APPROVED

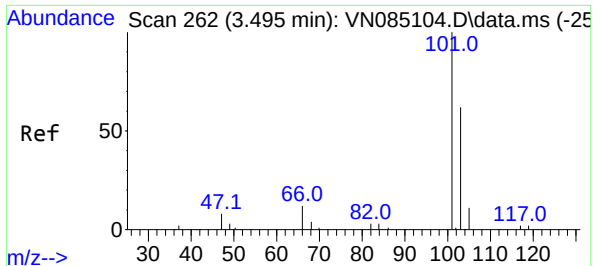
Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024



#6
Chloroethane
Concen: 43.772 ug/l
RT: 3.112 min Scan# 197
Delta R.T. 0.047 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

Tgt Ion: 64 Resp: 59875
Ion Ratio Lower Upper
64 100
66 32.3 24.4 36.6





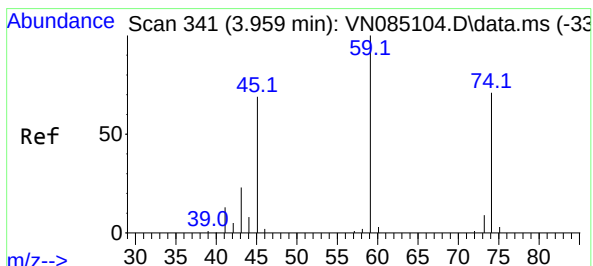
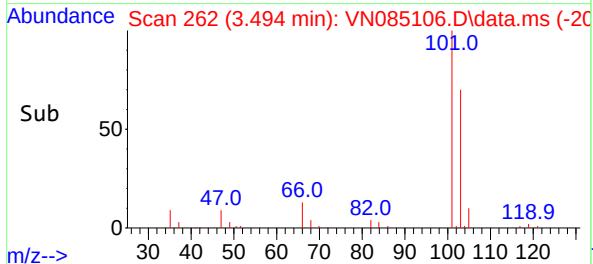
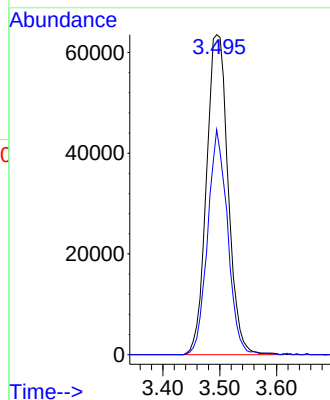
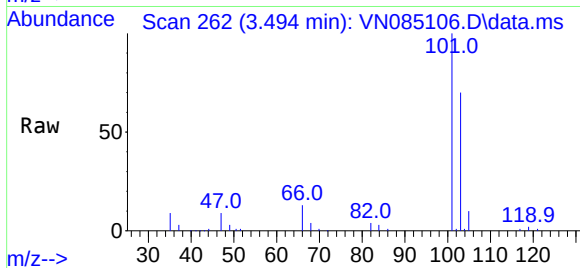
#7
Trichlorofluoromethane
Concen: 48.647 ug/l
RT: 3.494 min Scan# 262
Delta R.T. 0.035 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 16794
Ion Ratio Lower Upper
101 100
103 70.3 52.6 78.8

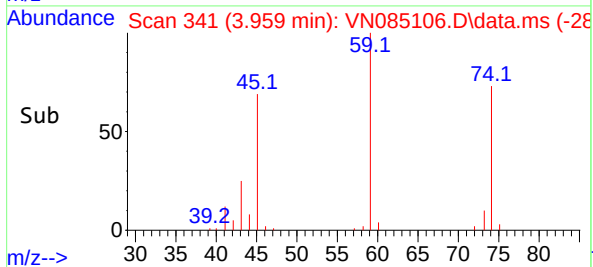
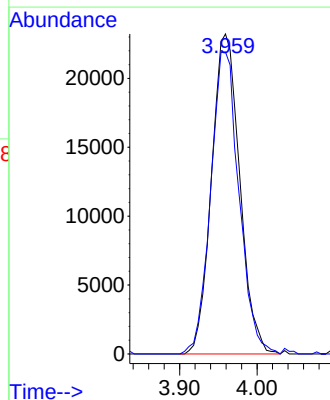
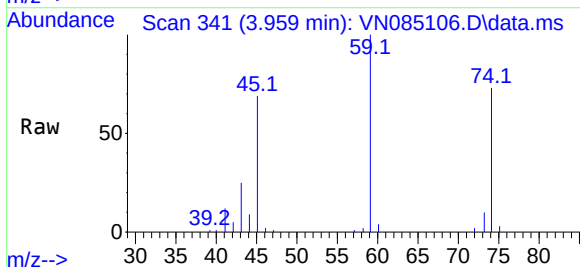
Manual Integrations
APPROVED

Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024

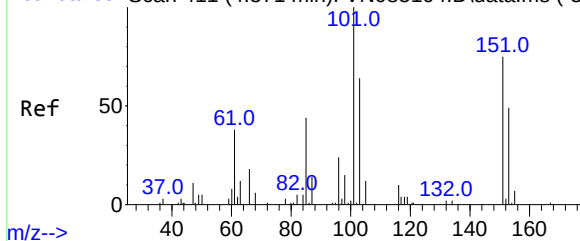


#8
Diethyl Ether
Concen: 49.889 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.012 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

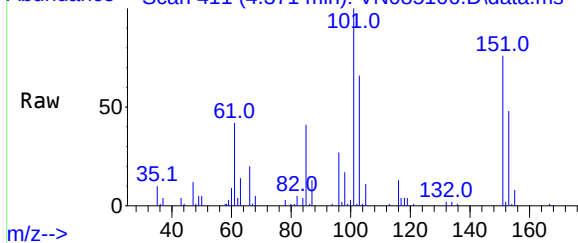
Tgt Ion: 74 Resp: 58620
Ion Ratio Lower Upper
74 100
45 95.0 46.7 140.1



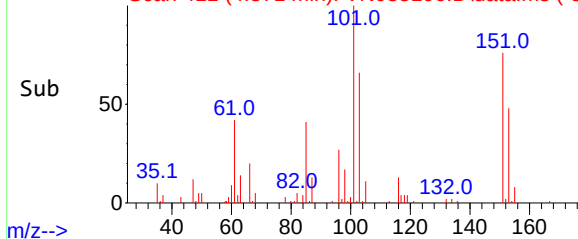
Abundance Scan 411 (4.371 min): VN085104.D\data.ms (-39



m/z--> Abundance Scan 411 (4.371 min): VN085106.D\data.ms



Abundance Scan 411 (4.371 min): VN085106.D\data.ms (-35



m/z-->

#9

1,1,2-Trichlorotrifluoroethane

Concen: 50.424 ug/l

RT: 4.371 min Scan# 411

Delta R.T. 0.017 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:101 Resp: 98729

Ion Ratio Lower Upper

101 100

85 43.4 36.9 55.3

151 76.4 60.8 91.2

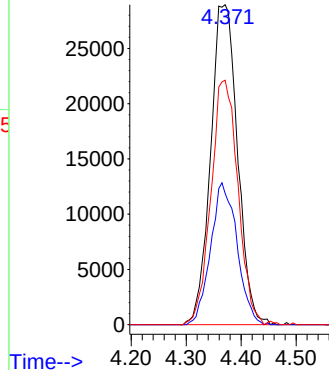
Manual Integrations

APPROVED

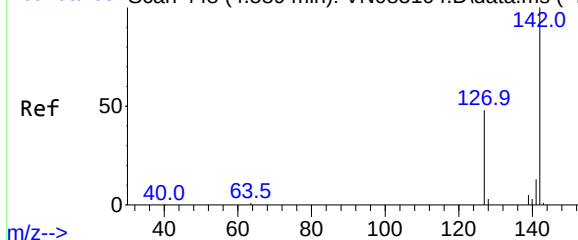
Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024

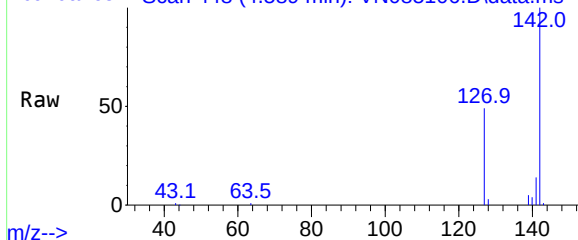
Abundance



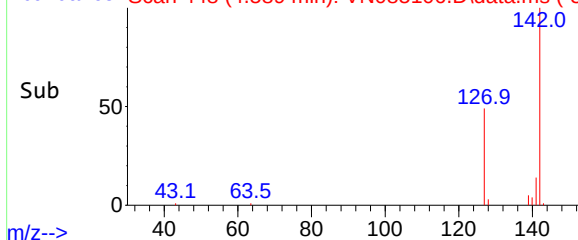
Abundance Scan 448 (4.589 min): VN085104.D\data.ms (-43



m/z--> Abundance Scan 448 (4.589 min): VN085106.D\data.ms



Abundance Scan 448 (4.589 min): VN085106.D\data.ms (-39



m/z-->

#10

Methyl Iodide

Concen: 50.317 ug/l

RT: 4.589 min Scan# 448

Delta R.T. 0.017 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Tgt Ion:142 Resp: 130409

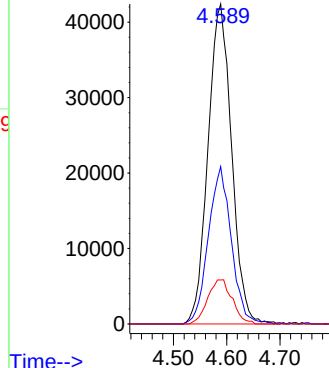
Ion Ratio Lower Upper

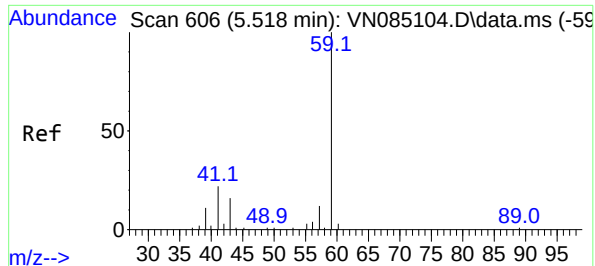
142 100

127 49.2 36.6 54.8

141 13.8 12.2 18.4

Abundance





#11

Tert butyl alcohol

Concen: 271.065 ug/l

RT: 5.524 min Scan# 606

Delta R.T. -0.018 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 59 Resp: 8884

Ion Ratio Lower Upper

59 100

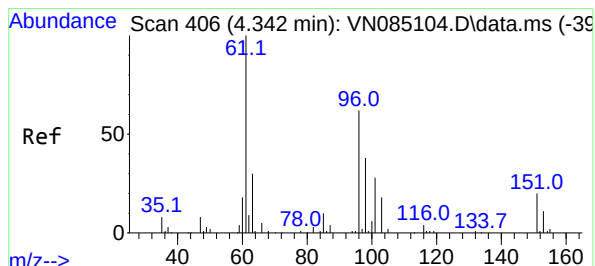
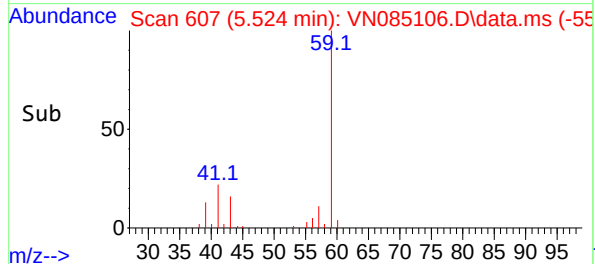
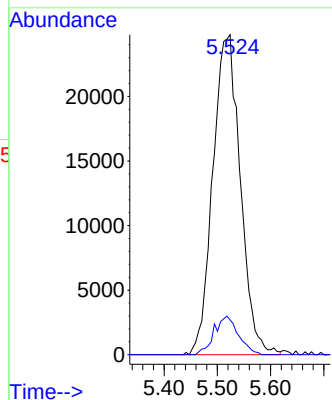
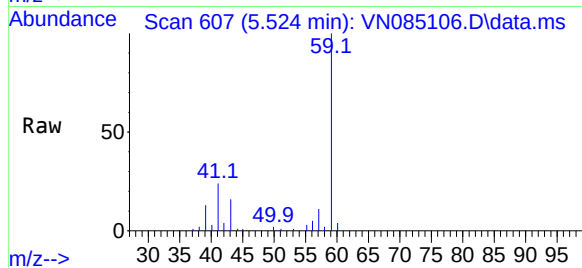
57 10.6 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#12

1,1-Dichloroethene

Concen: 49.319 ug/l

RT: 4.341 min Scan# 406

Delta R.T. 0.023 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

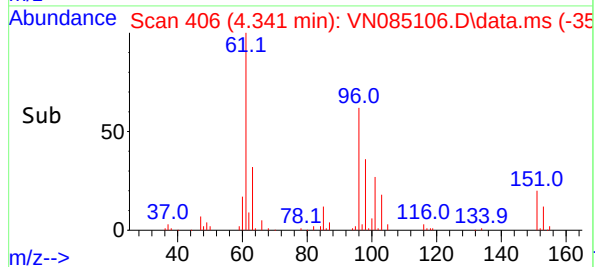
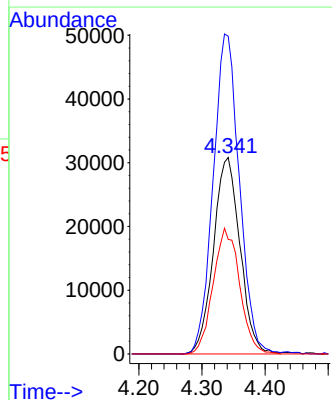
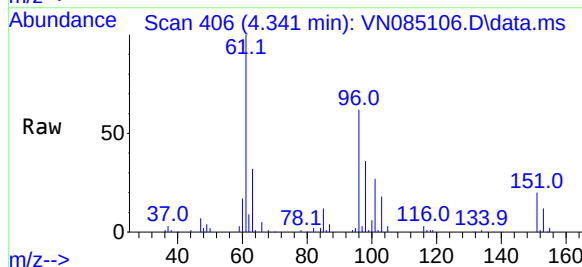
Tgt Ion: 96 Resp: 90135

Ion Ratio Lower Upper

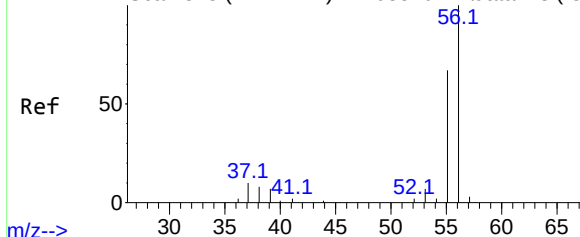
96 100

61 161.7 127.8 191.8

98 58.3 49.2 73.8



Abundance Scan 378 (4.177 min): VN085104.D\data.ms (-36



#13

Acrolein

Concen: 281.874 ug/l

RT: 4.183 min Scan# 31

Delta R.T. 0.017 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 6164

Ion Ratio Lower Upper

56 100

55 69.8 54.5 81.7

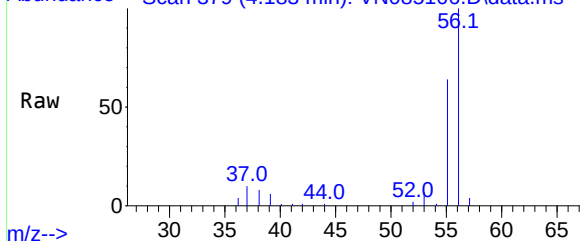
Manual Integrations

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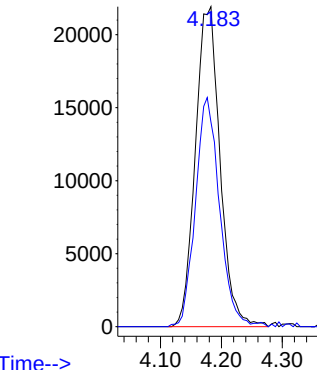
Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024

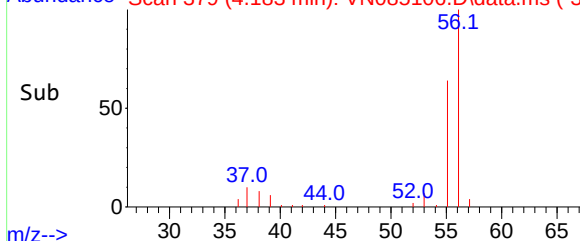
Abundance Scan 379 (4.183 min): VN085106.D\data.ms



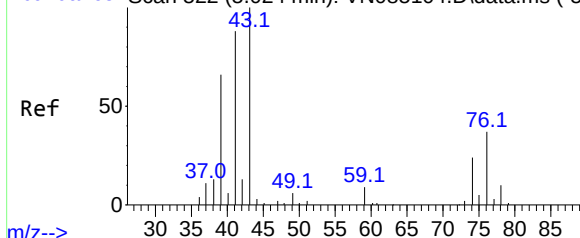
Abundance



Abundance Scan 379 (4.183 min): VN085106.D\data.ms (-32



Abundance Scan 522 (5.024 min): VN085104.D\data.ms (-51



#14

Allyl chloride

Concen: 45.038 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.017 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Tgt Ion: 41 Resp: 138762

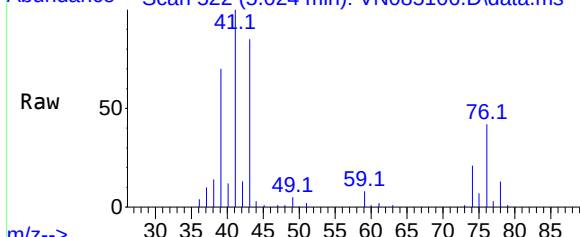
Ion Ratio Lower Upper

41 100

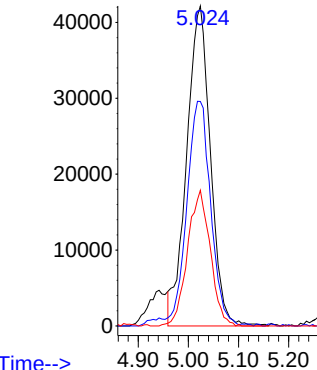
39 69.6 53.8 80.8

76 40.7 29.3 43.9

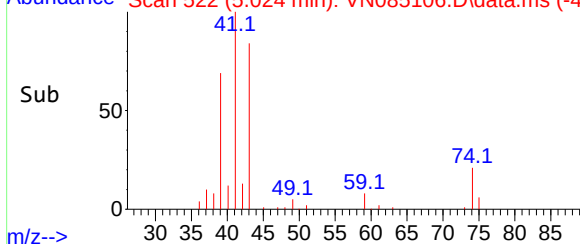
Abundance Scan 522 (5.024 min): VN085106.D\data.ms

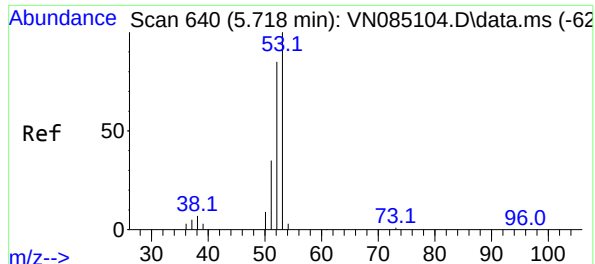


Abundance



Abundance Scan 522 (5.024 min): VN085106.D\data.ms (-46





#15

Acrylonitrile

Concen: 260.771 ug/l

RT: 5.712 min Scan# 61

Delta R.T. -0.000 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

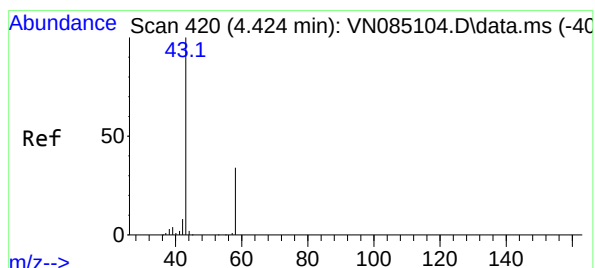
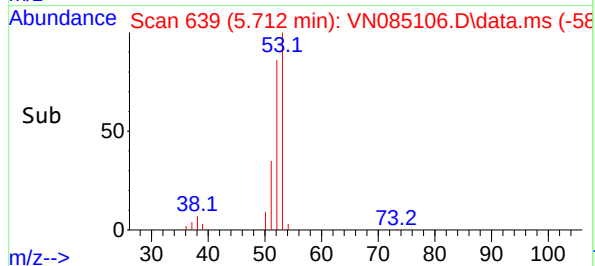
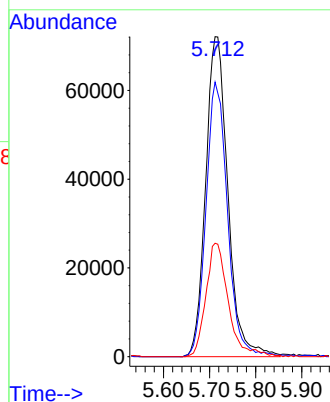
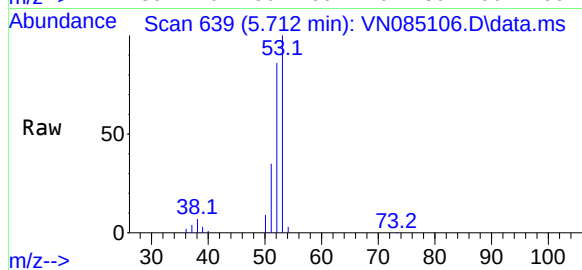
Tgt Ion:	53	Resp:	241979
Ion	Ratio	Lower	Upper
53	100		
52	83.3	65.5	98.3
51	35.8	28.4	42.6

Manual Integrations

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Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#16

Acetone

Concen: 277.185 ug/l

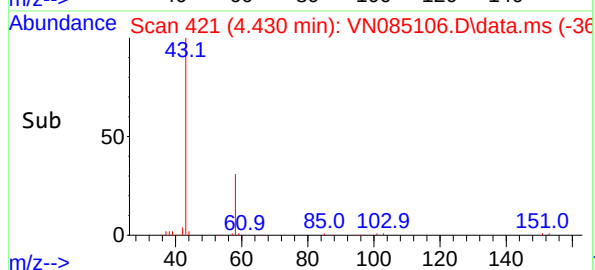
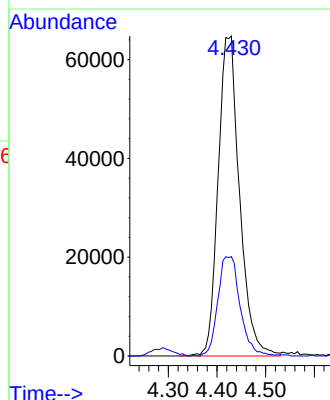
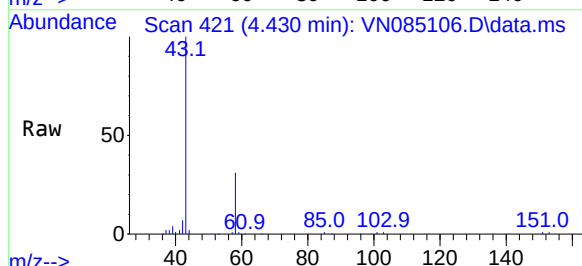
RT: 4.430 min Scan# 421

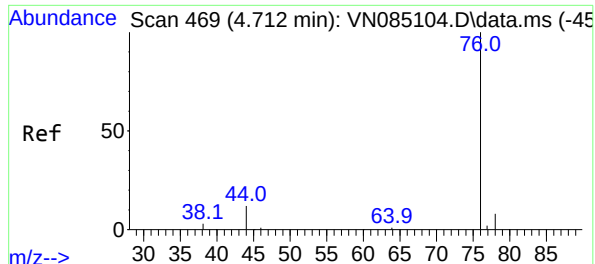
Delta R.T. 0.006 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Tgt Ion:	43	Resp:	198000
Ion	Ratio	Lower	Upper
43	100		
58	30.8	25.4	38.2





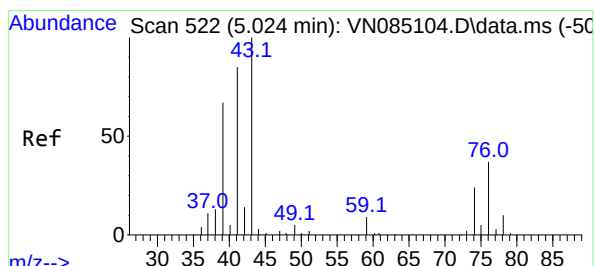
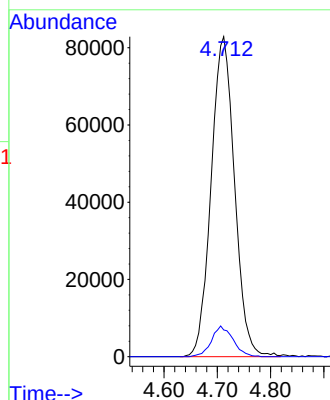
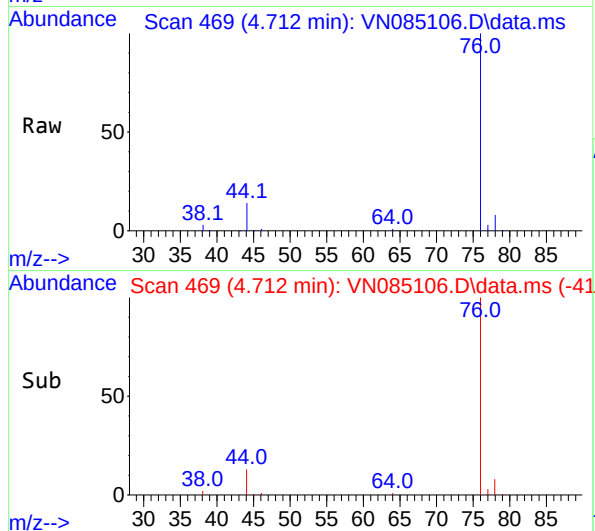
#17
Carbon Disulfide
Concen: 46.934 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.017 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 25318
Ion Ratio Lower Upper
76 100
78 8.4 6.5 9.7

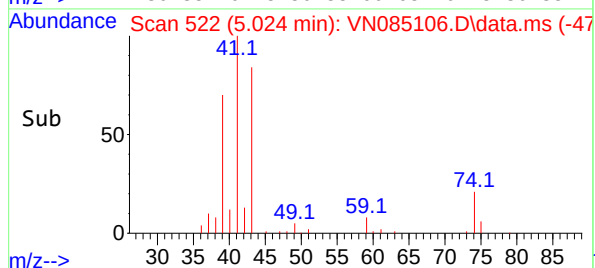
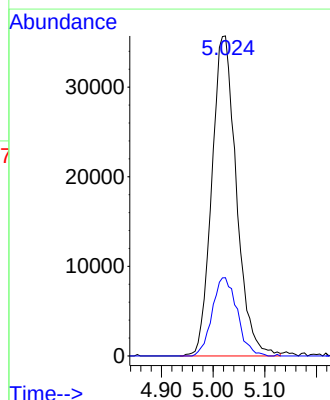
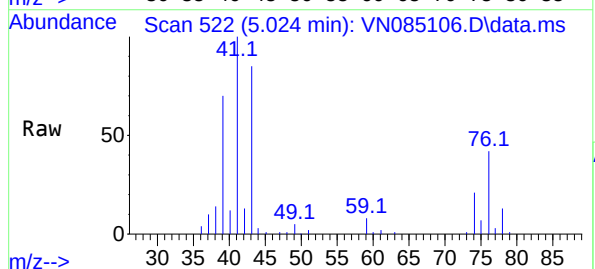
Manual Integrations
APPROVED

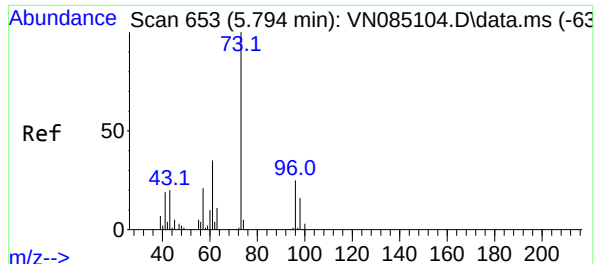
Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024



#18
Methyl Acetate
Concen: 51.655 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

Tgt Ion: 43 Resp: 117849
Ion Ratio Lower Upper
43 100
74 24.9 20.1 30.1





#19

Methyl tert-butyl Ether

Concen: 51.900 ug/l

RT: 5.794 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 73 Resp: 30991

Ion Ratio Lower Upper

73 100

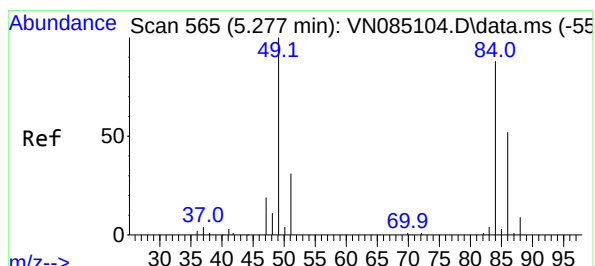
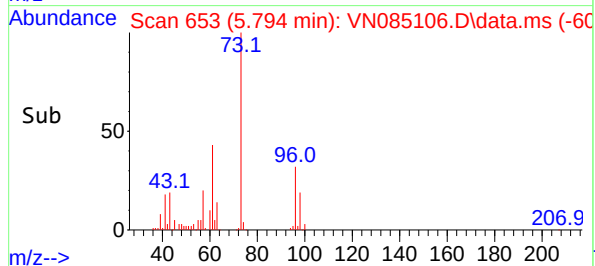
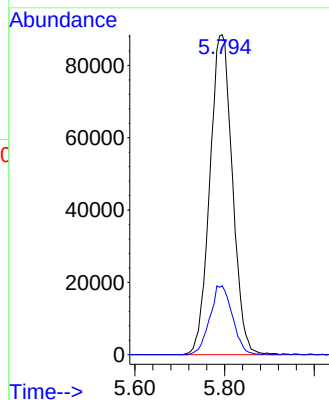
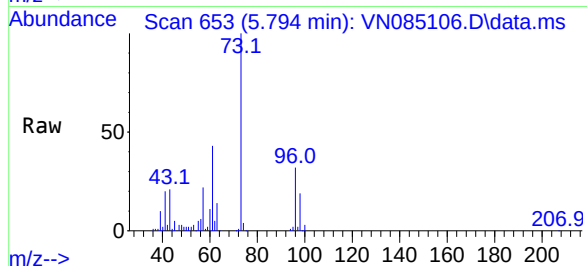
57 21.5 17.0 25.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#20

Methylene Chloride

Concen: 48.016 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.006 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Tgt Ion: 84 Resp: 104663

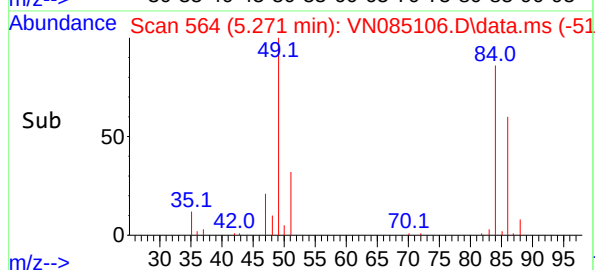
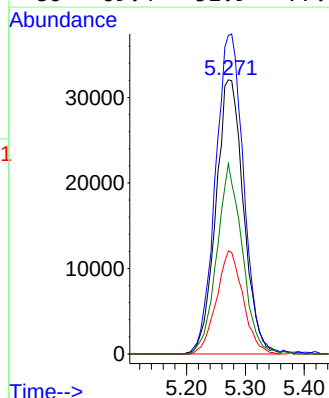
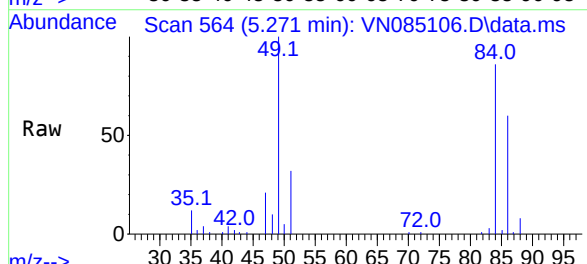
Ion Ratio Lower Upper

84 100

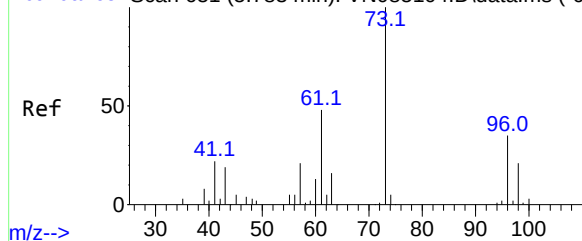
49 116.2 92.7 139.1

51 37.6 29.4 44.2

86 69.4 51.9 77.9



Abundance Scan 651 (5.783 min): VN085104.D\data.ms (-63



#21
trans-1,2-Dichloroethene
Concen: 51.340 ug/l
RT: 5.783 min Scan# 61
Delta R.T. 0.012 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

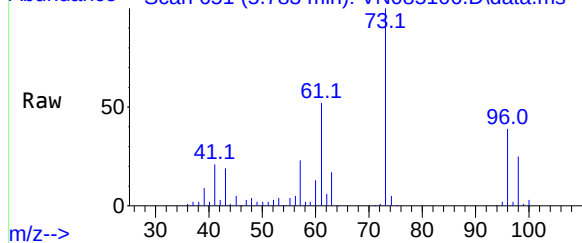
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 98740
Ion Ratio Lower Upper
96 100
61 134.1 100.7 151.1
98 63.1 45.8 68.6

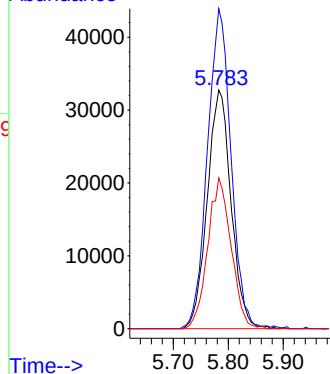
Manual Integrations
APPROVED

Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024

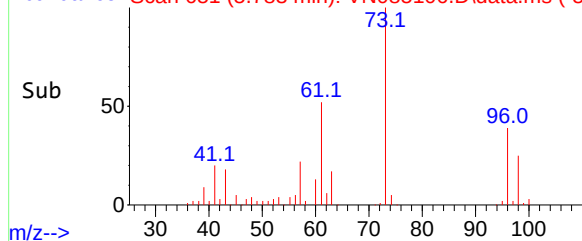
Abundance Scan 651 (5.783 min): VN085106.D\data.ms



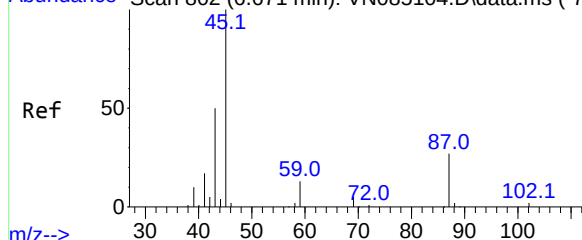
Abundance



Abundance Scan 651 (5.783 min): VN085106.D\data.ms (-59



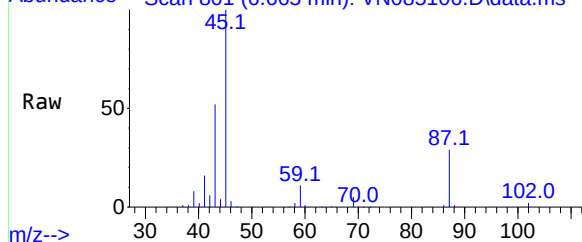
Abundance Scan 802 (6.671 min): VN085104.D\data.ms (-78



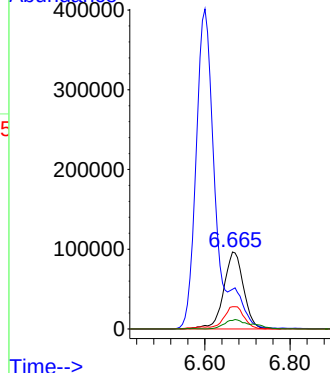
#22
Diisopropyl ether
Concen: 50.339 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.000 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

Tgt Ion: 45 Resp: 312149
Ion Ratio Lower Upper
45 100
43 50.5 42.7 64.1
87 28.9 22.6 34.0
59 10.8 9.9 14.9

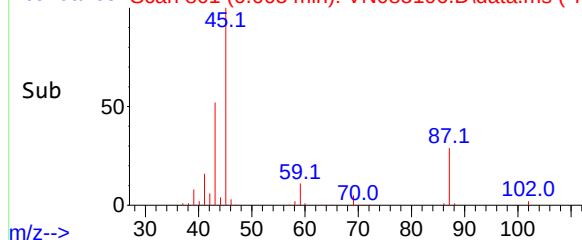
Abundance Scan 801 (6.665 min): VN085106.D\data.ms

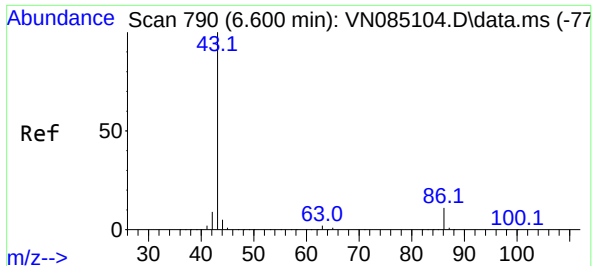


Abundance



Abundance Scan 801 (6.665 min): VN085106.D\data.ms (-75





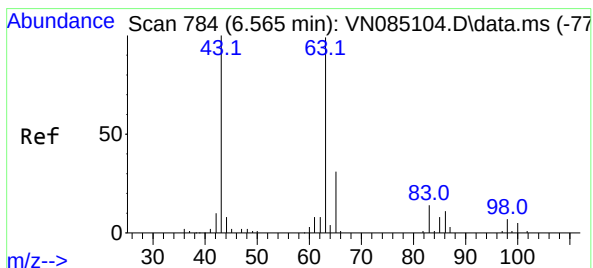
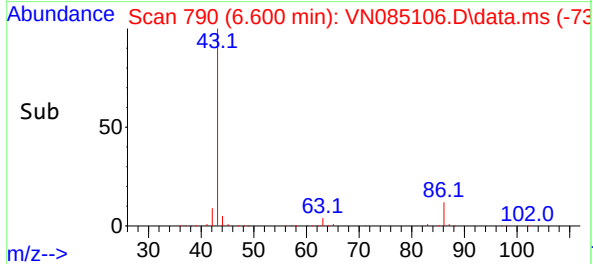
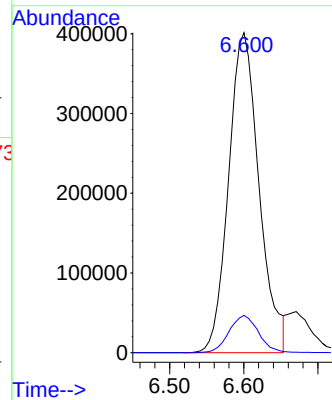
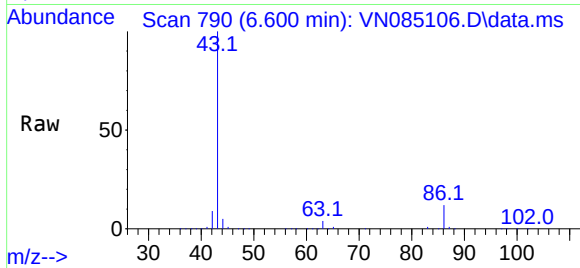
#23
Vinyl Acetate
Concen: 268.517 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.006 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 114868
Ion Ratio Lower Upper
43 100
86 11.6 8.9 13.3

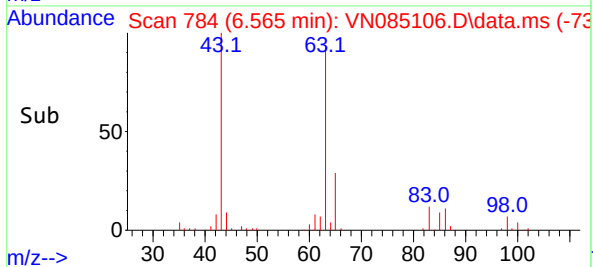
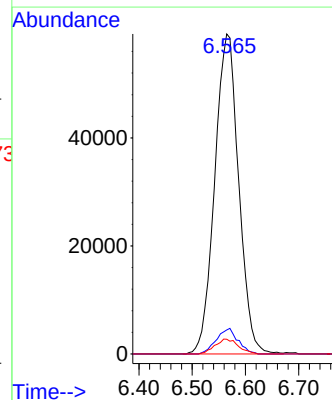
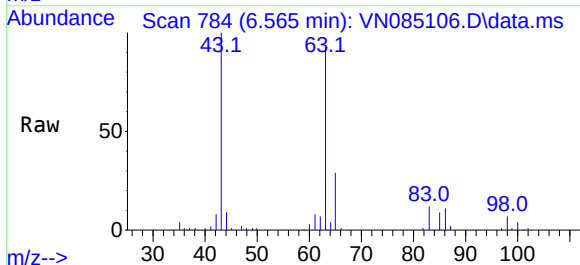
Manual Integrations
APPROVED

Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024

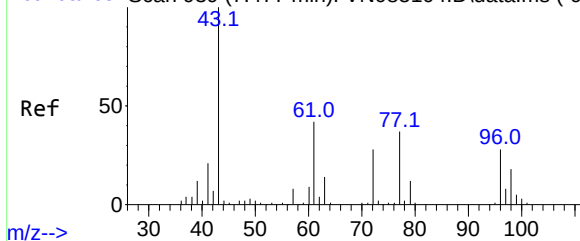


#24
1,1-Dichloroethane
Concen: 49.816 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.012 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

Tgt Ion: 63 Resp: 184858
Ion Ratio Lower Upper
63 100
98 7.5 3.3 9.8
100 4.6 2.2 6.6



Abundance Scan 939 (7.477 min): VN085104.D\data.ms (-92



#25

2-Butanone

Concen: 267.424 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 312314

Ion Ratio Lower Upper

43 100

72 28.6 21.4 32.0

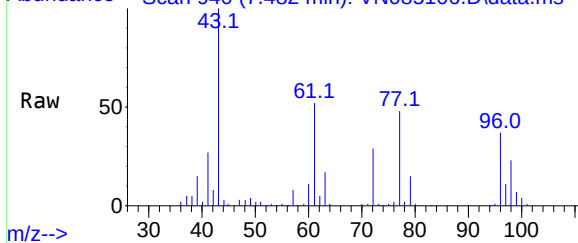
Manual Integrations

APPROVED

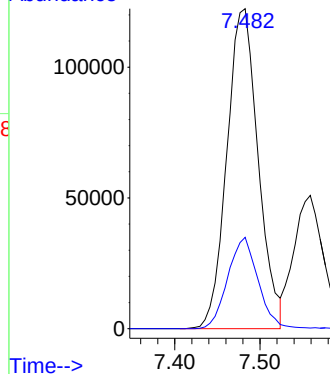
Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024

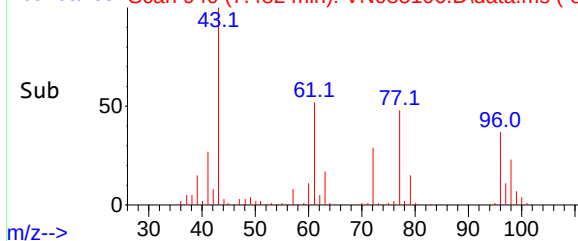
Abundance Scan 940 (7.482 min): VN085106.D\data.ms



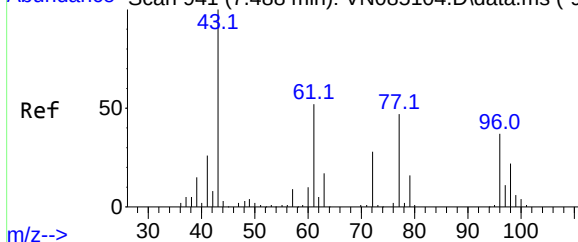
Abundance



Abundance Scan 940 (7.482 min): VN085106.D\data.ms (-88



Abundance Scan 941 (7.488 min): VN085104.D\data.ms (-92



#26

2,2-Dichloropropane

Concen: 49.728 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

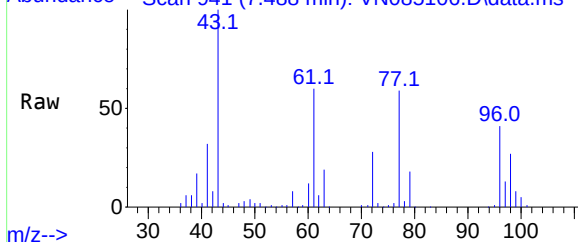
Tgt Ion: 77 Resp: 172307

Ion Ratio Lower Upper

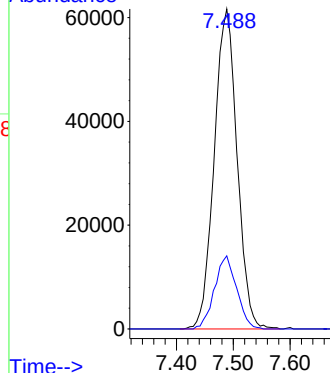
77 100

97 22.1 10.9 32.7

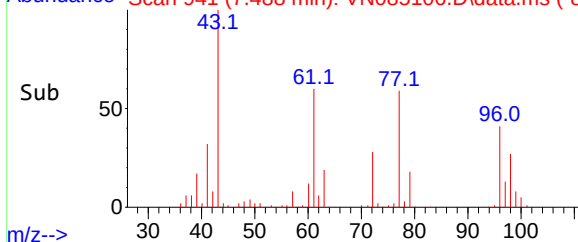
Abundance Scan 941 (7.488 min): VN085106.D\data.ms

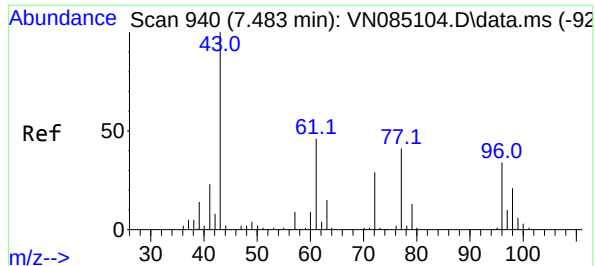


Abundance



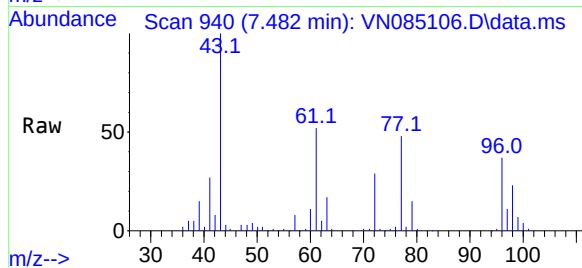
Abundance Scan 941 (7.488 min): VN085106.D\data.ms (-88





#27
cis-1,2-Dichloroethene
Concen: 50.930 ug/l
RT: 7.482 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

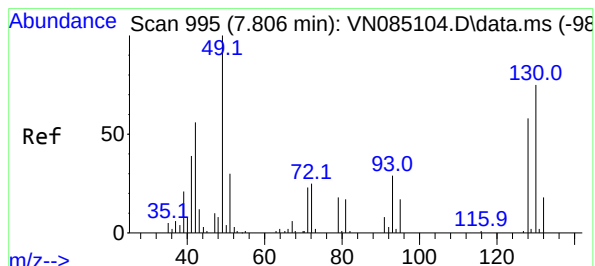
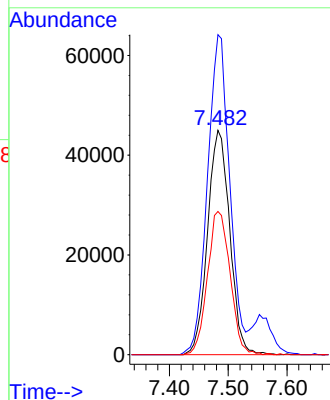
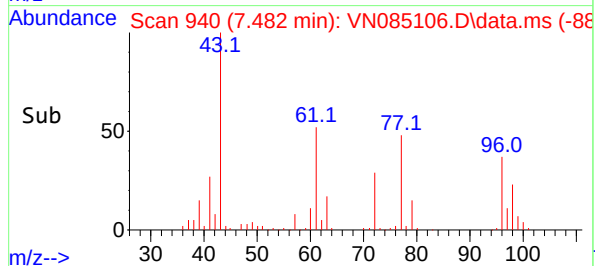
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 96 Resp: 118084
Ion Ratio Lower Upper
96 100
61 142.2 0.0 291.6
98 64.9 0.0 129.8

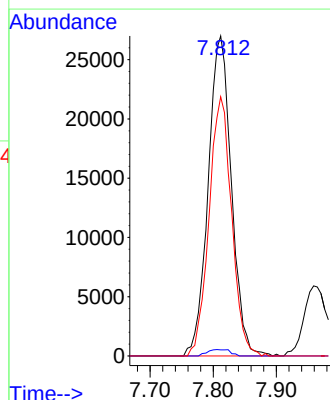
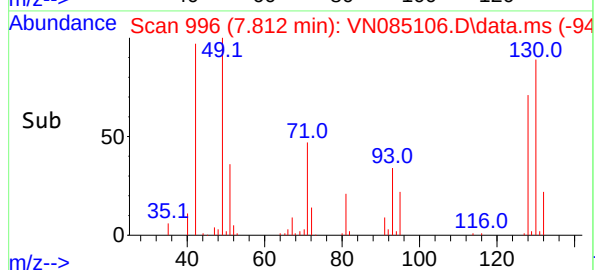
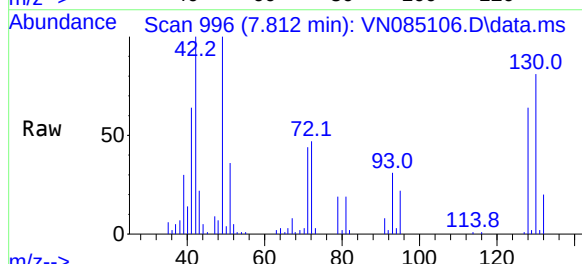
Manual Integrations
APPROVED

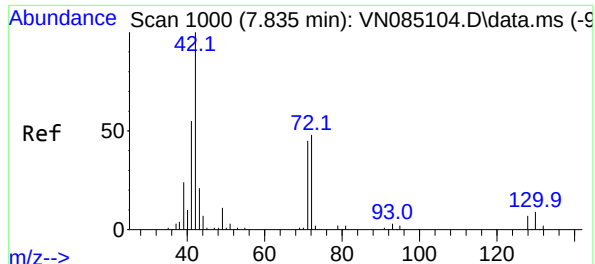
Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024



#28
Bromochloromethane
Concen: 49.289 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

Tgt Ion: 49 Resp: 69042
Ion Ratio Lower Upper
49 100
129 2.0 0.0 4.0
130 78.7 60.6 90.8





#29

Tetrahydrofuran

Concen: 277.549 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. -0.000 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 42 Resp: 20157

Ion Ratio Lower Upper

42 100

72 46.7 37.0 55.4

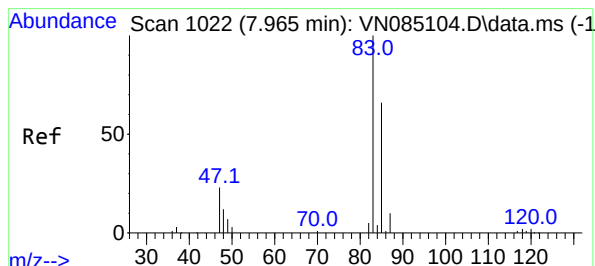
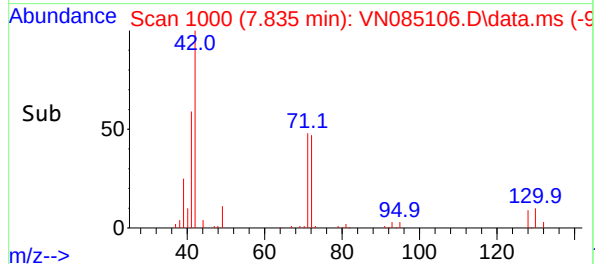
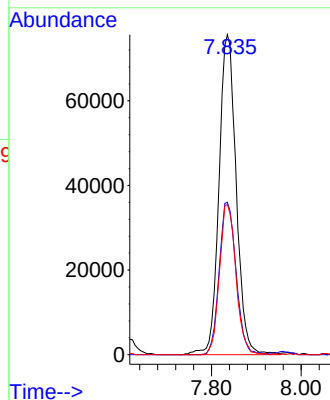
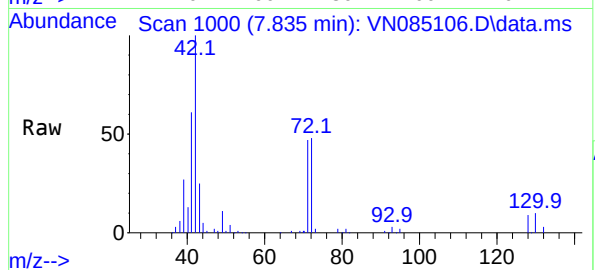
71 44.8 35.0 52.4

Manual Integrations

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Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#30

Chloroform

Concen: 50.125 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. -0.000 min

Lab File: VN085106.D

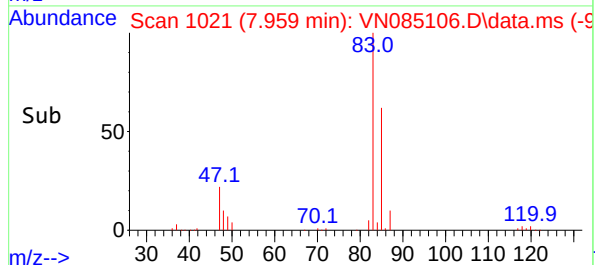
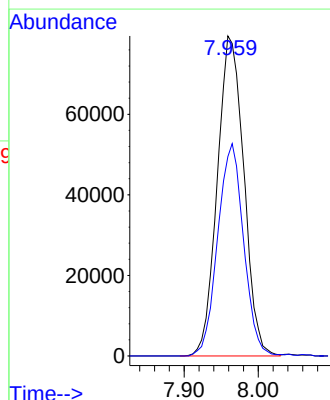
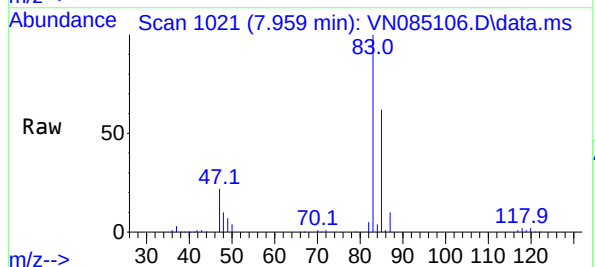
Acq: 05 Dec 2024 10:50

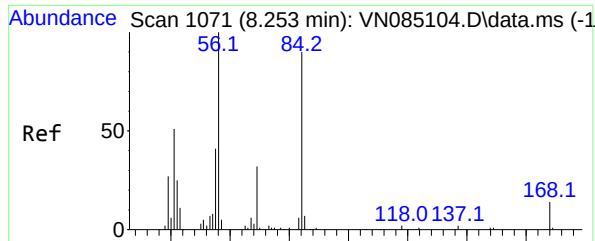
Tgt Ion: 83 Resp: 197859

Ion Ratio Lower Upper

83 100

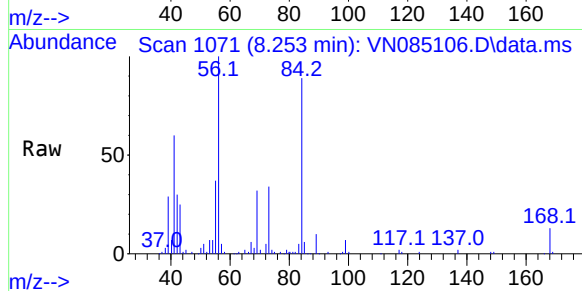
85 62.3 52.6 78.8





#31
Cyclohexane
Concen: 48.214 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. -0.000 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

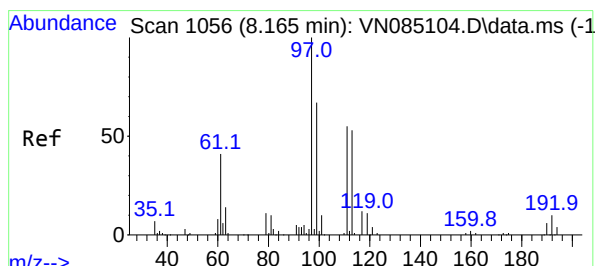
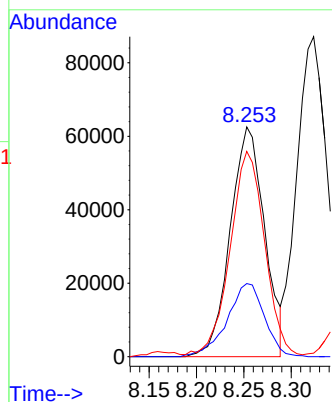
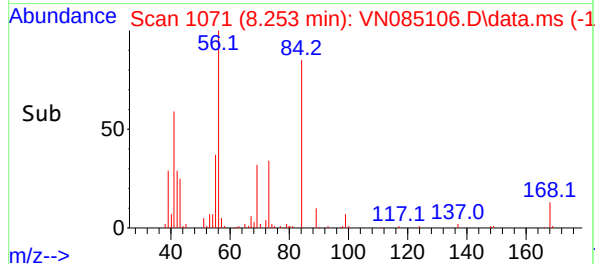
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



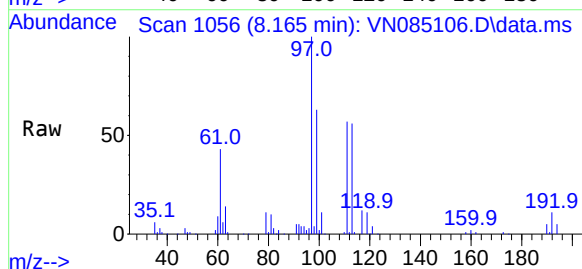
Tgt Ion: 56 Resp: 15752
Ion Ratio Lower Upper
56 100
69 31.8 24.6 36.8
84 88.4 71.4 107.2

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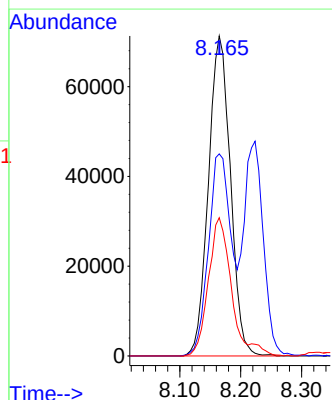
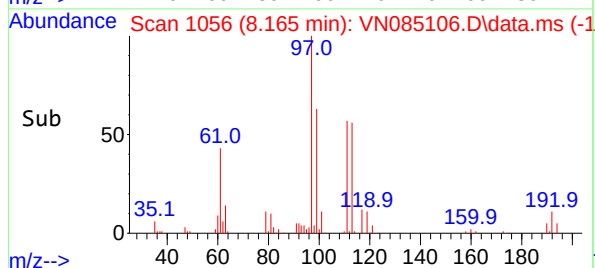
Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024

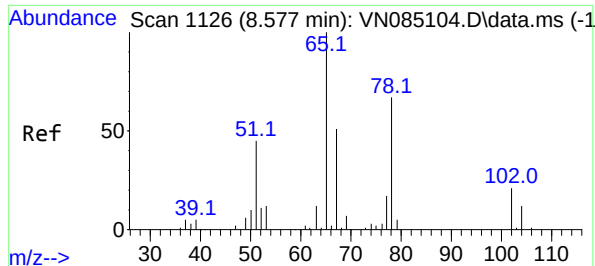


#32
1,1,1-Trichloroethane
Concen: 50.113 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50



Tgt Ion: 97 Resp: 178752
Ion Ratio Lower Upper
97 100
99 65.2 51.0 76.4
61 45.5 36.2 54.2





#33

1,2-Dichloroethane-d4

Concen: 47.718 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 65 Resp: 117039

Ion Ratio Lower Upper

65 100

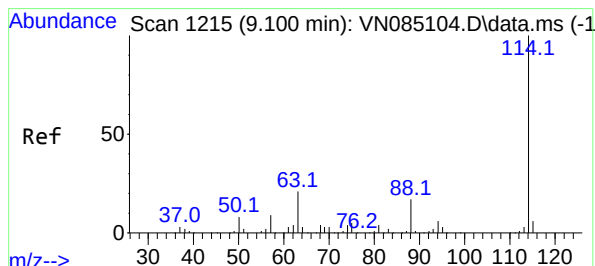
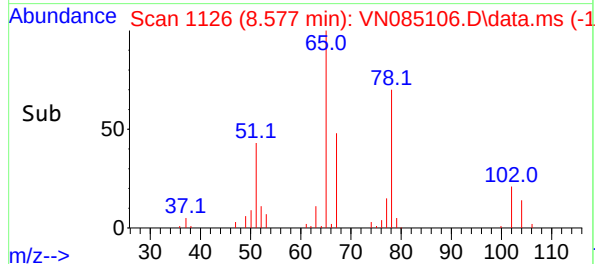
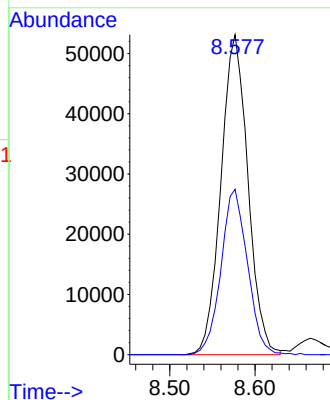
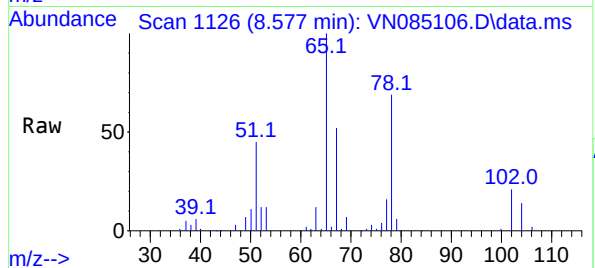
67 50.9 0.0 105.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

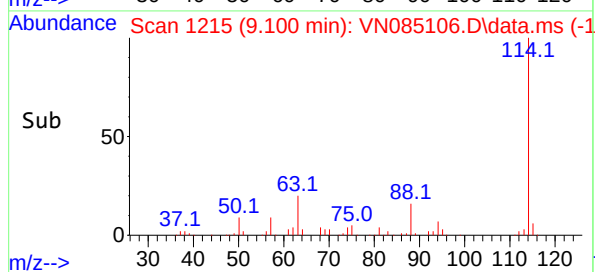
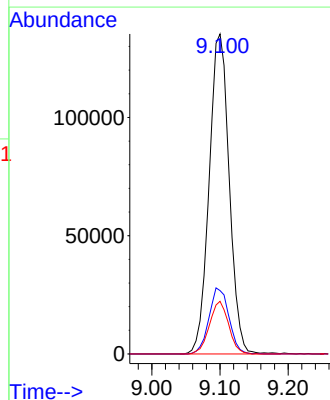
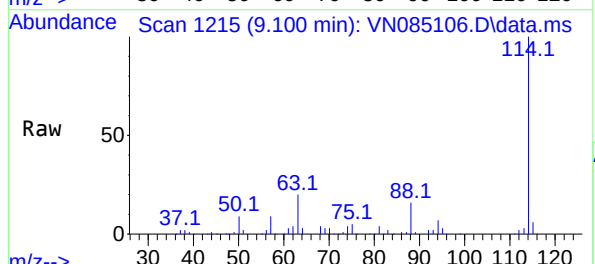
Tgt Ion:114 Resp: 277520

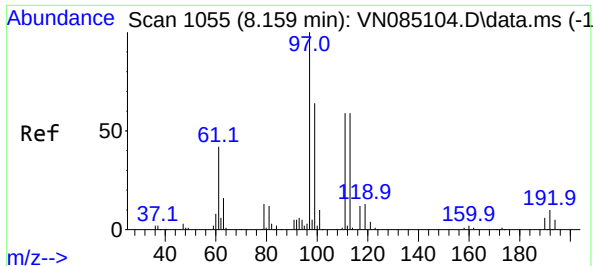
Ion Ratio Lower Upper

114 100

63 19.8 0.0 41.0

88 16.5 0.0 34.8





#35

Dibromofluoromethane

Concen: 51.181 ug/l

RT: 8.165 min Scan# 1055

Delta R.T. 0.006 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:113 Resp: 9578

Ion Ratio Lower Upper

113 100

111 102.8 82.0 123.0

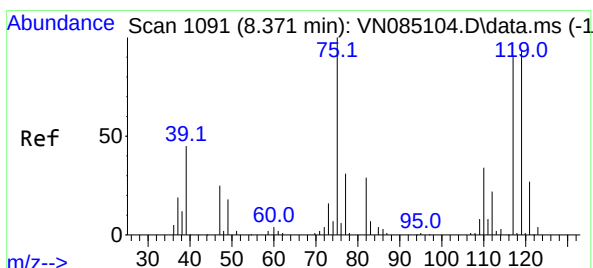
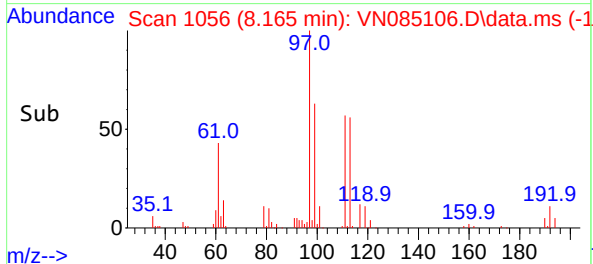
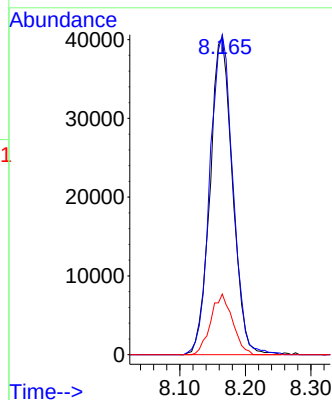
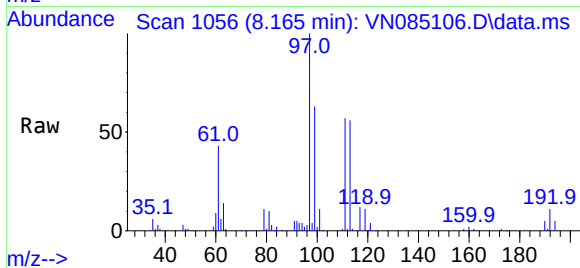
192 18.5 14.8 22.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#36

1,1-Dichloropropene

Concen: 52.841 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

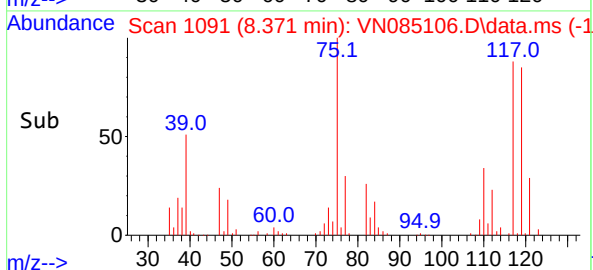
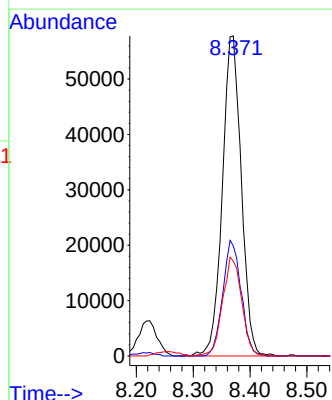
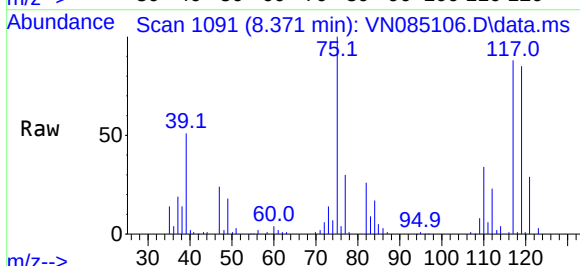
Tgt Ion: 75 Resp: 133948

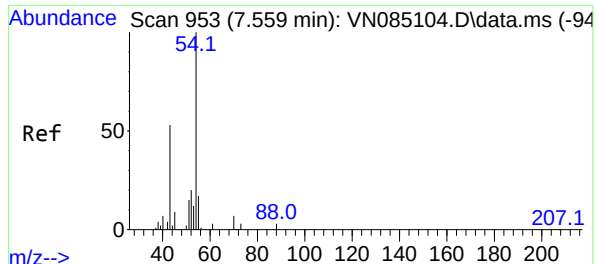
Ion Ratio Lower Upper

75 100

110 34.9 17.2 51.6

77 31.2 24.2 36.4





#37

Ethyl Acetate

Concen: 55.119 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 127024

Ion Ratio Lower Upper

43 100

61 13.8 11.7 17.5

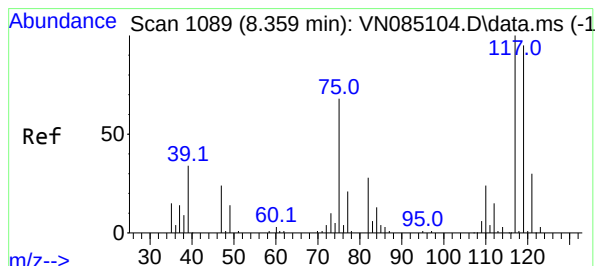
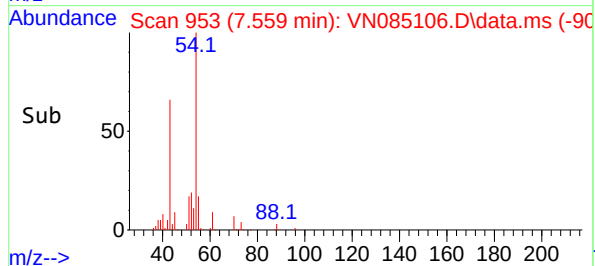
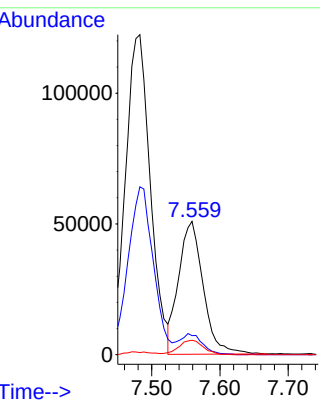
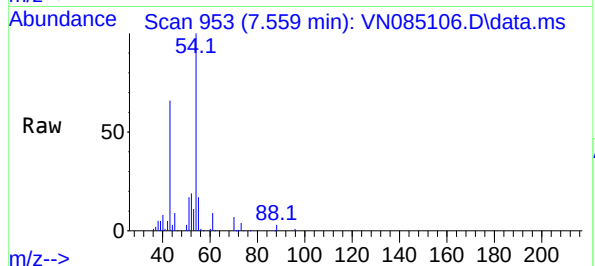
70 11.0 9.3 13.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#38

Carbon Tetrachloride

Concen: 54.625 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.006 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

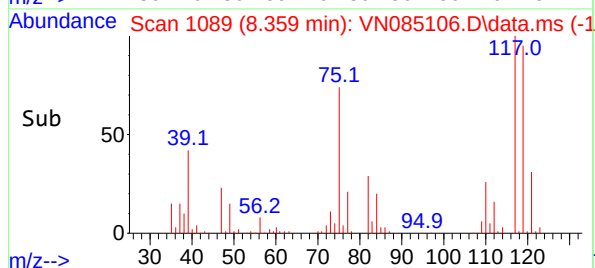
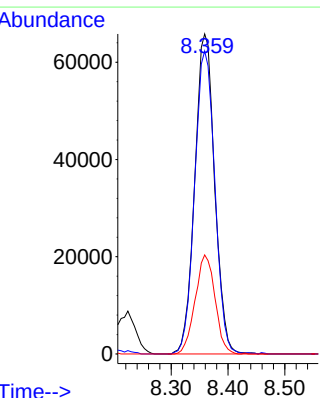
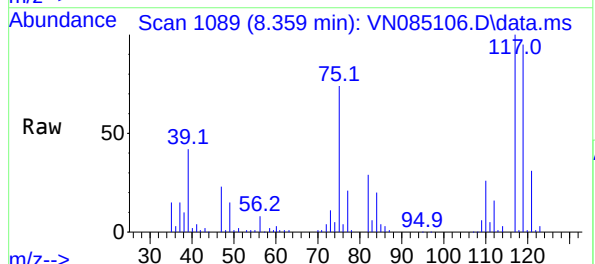
Tgt Ion:117 Resp: 159837

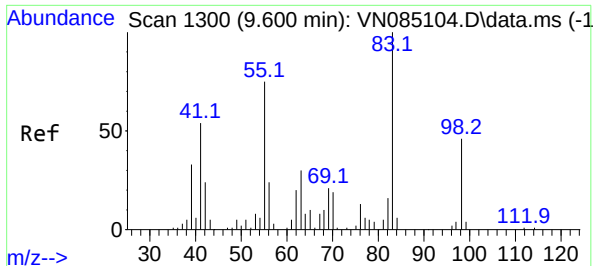
Ion Ratio Lower Upper

117 100

119 94.7 78.6 117.8

121 31.0 24.2 36.2





#39

Methylcyclohexane

Concen: 56.257 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. 0.006 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 148190

Ion Ratio Lower Upper

83 100

55 75.6 61.8 92.6

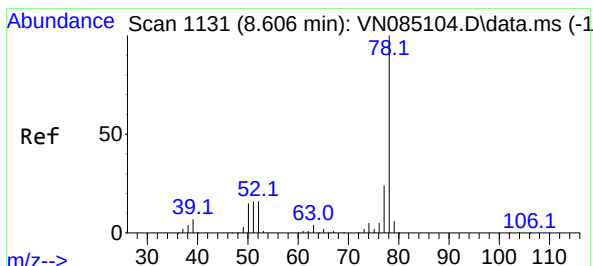
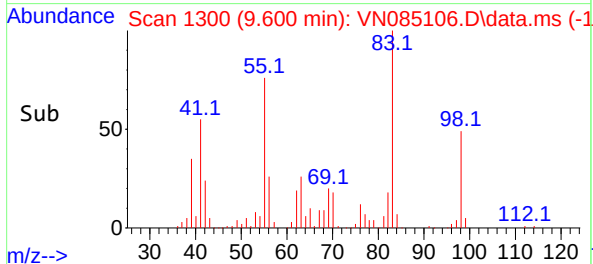
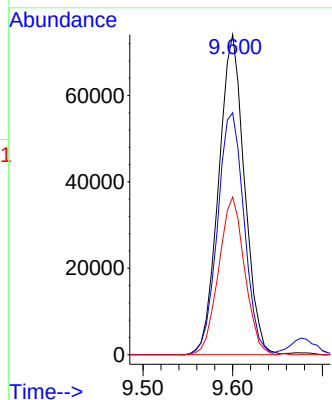
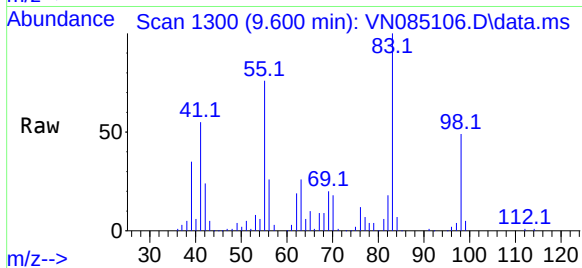
98 49.2 37.0 55.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#40

Benzene

Concen: 52.615 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN085106.D

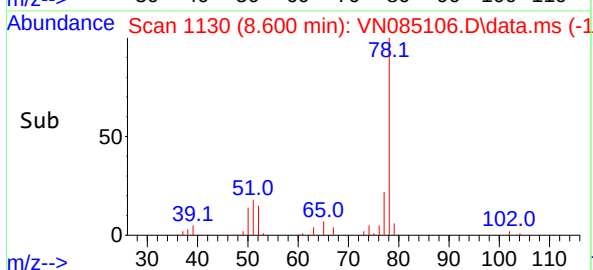
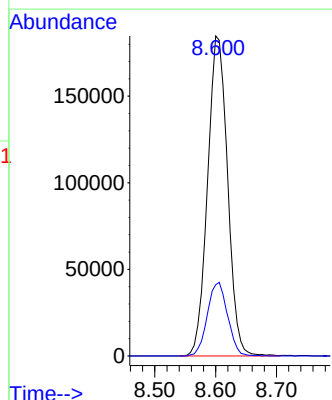
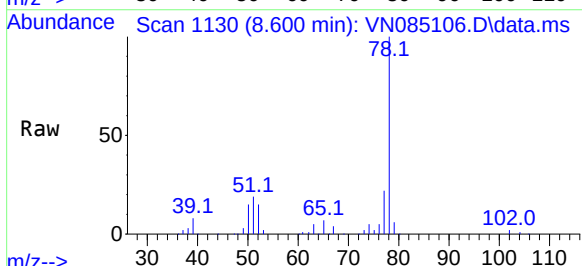
Acq: 05 Dec 2024 10:50

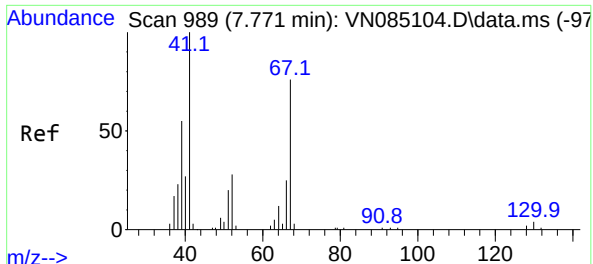
Tgt Ion: 78 Resp: 421843

Ion Ratio Lower Upper

78 100

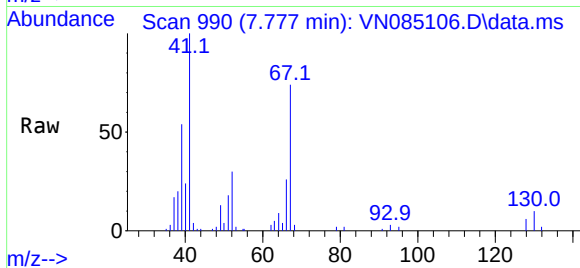
77 22.3 18.5 27.7





#41
Methacrylonitrile
Concen: 54.969 ug/l
RT: 7.777 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

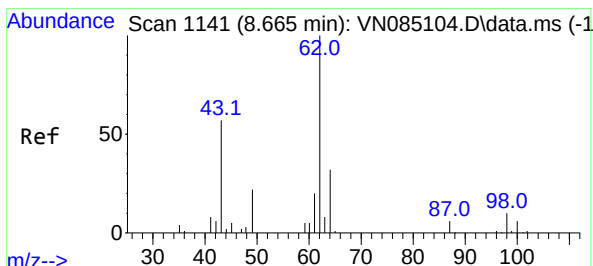
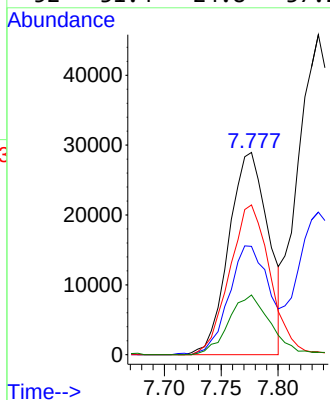
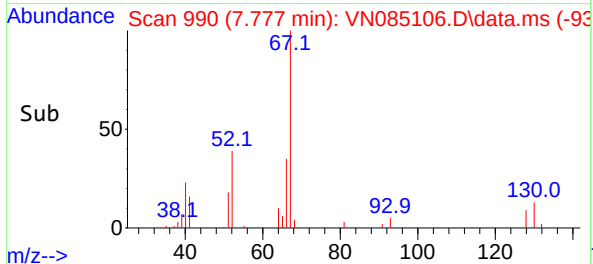
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 41 Resp: 70138
Ion Ratio Lower Upper
41 100
39 54.2 42.6 63.8
67 76.3 59.9 89.9
52 31.4 24.8 37.2

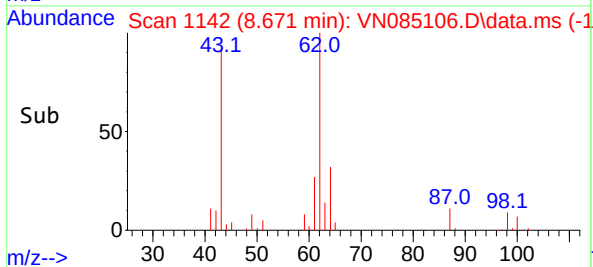
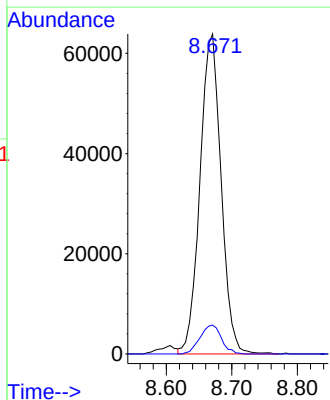
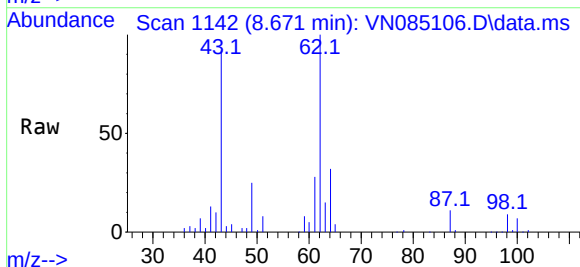
Manual Integrations
APPROVED

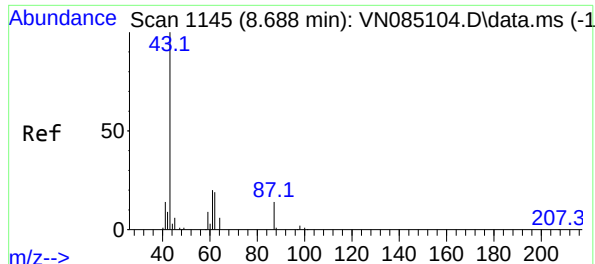
Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024



#42
1,2-Dichloroethane
Concen: 52.223 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.006 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

Tgt Ion: 62 Resp: 143242
Ion Ratio Lower Upper
62 100
98 9.2 0.0 18.2





#43

Isopropyl Acetate

Concen: 47.167 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.006 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 22578

Ion Ratio Lower Upper

43

100

61

87

26.7

20.6

13.7

11.0

30.8

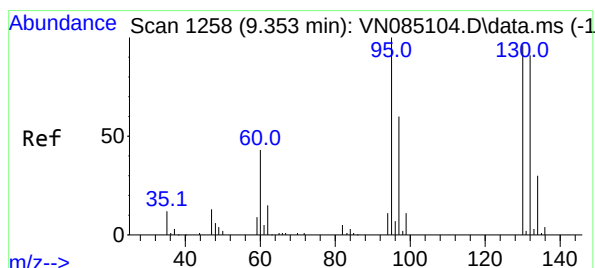
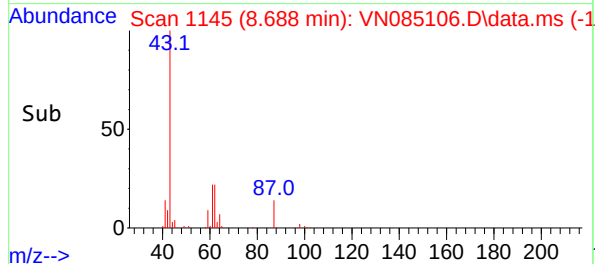
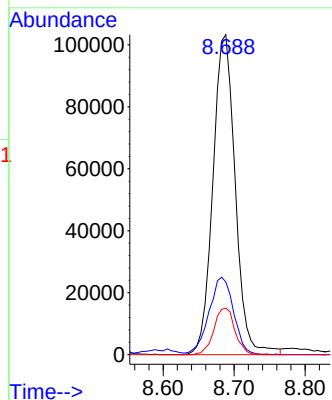
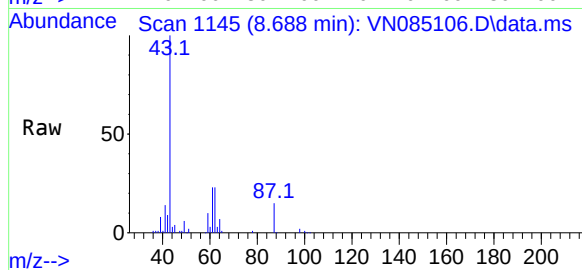
16.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#44

Trichloroethene

Concen: 54.949 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. 0.006 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Tgt Ion:130 Resp: 102382

Ion Ratio Lower Upper

130

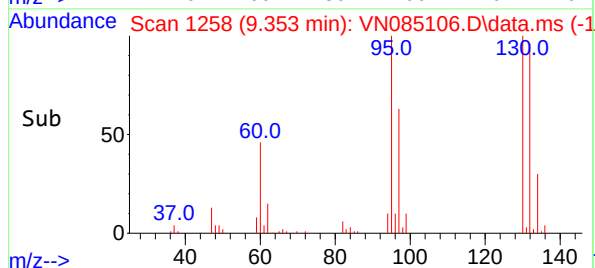
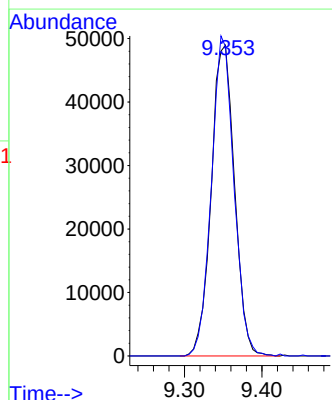
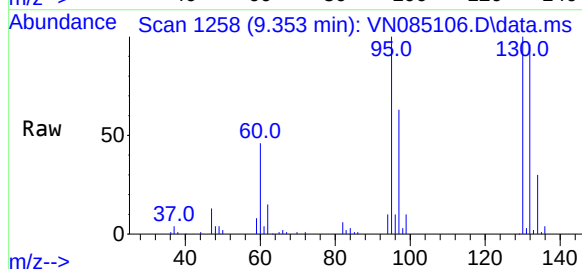
100

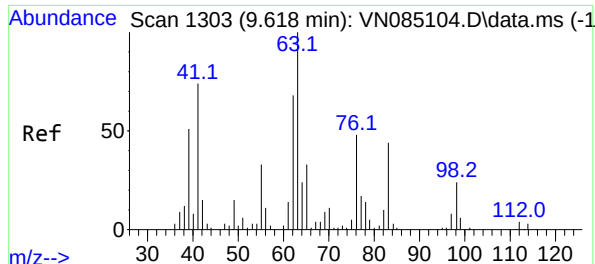
95

99.5

0.0

213.4





#45

1,2-Dichloropropane

Concen: 51.867 ug/l

RT: 9.618 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 63 Resp: 102424

Ion Ratio Lower Upper

63 100

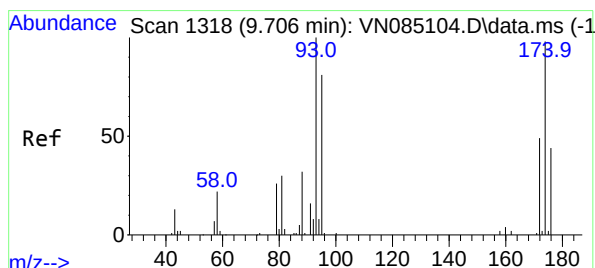
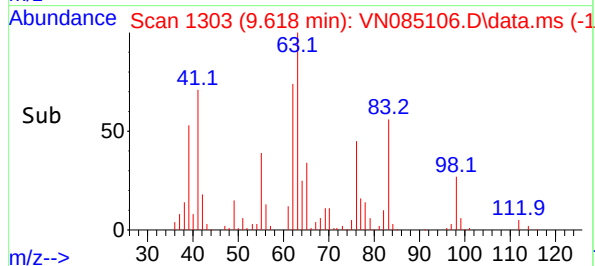
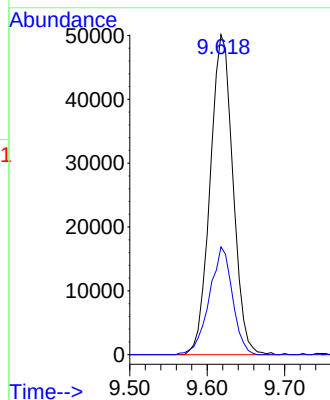
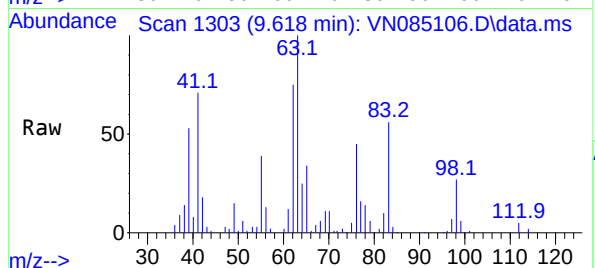
65 33.7 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#46

Dibromomethane

Concen: 53.529 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

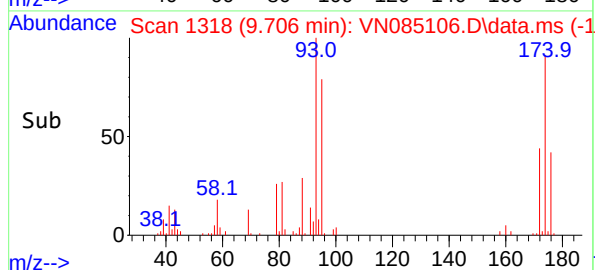
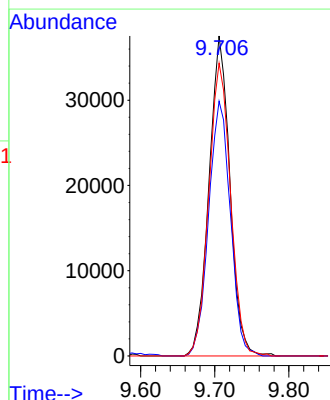
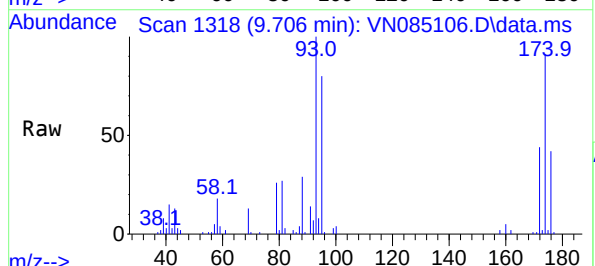
Tgt Ion: 93 Resp: 73451

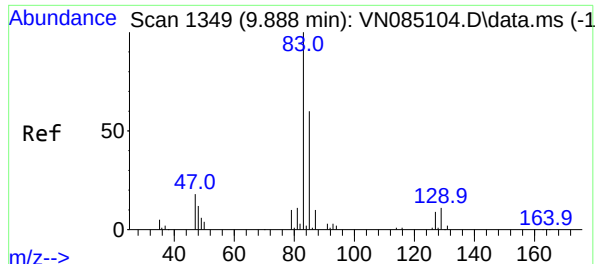
Ion Ratio Lower Upper

93 100

95 82.9 66.2 99.4

174 95.5 74.9 112.3





#47

Bromodichloromethane

Concen: 54.037 ug/l

RT: 9.882 min Scan# 1349

Delta R.T. -0.000 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

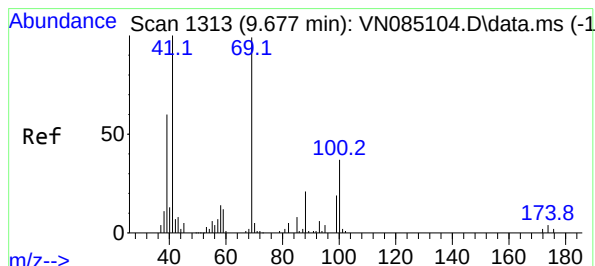
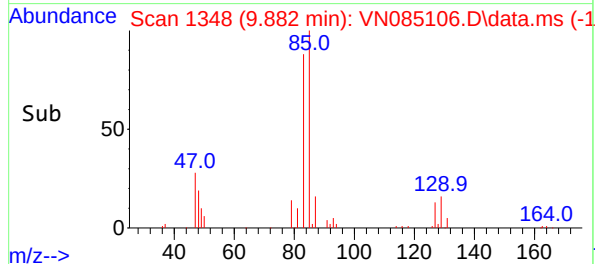
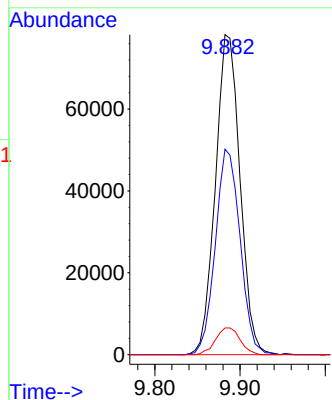
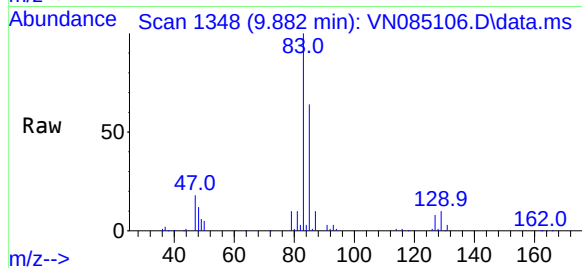
VSTDCCC050

Tgt Ion: 83	Resp: 157150
Ion Ratio	Lower Upper
83 100	
85 64.2	50.5 75.7
127 8.4	7.1 10.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#48

Methyl methacrylate

Concen: 58.913 ug/l

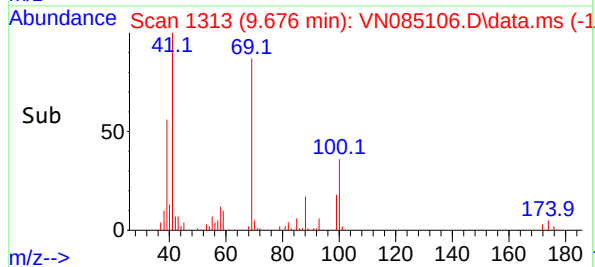
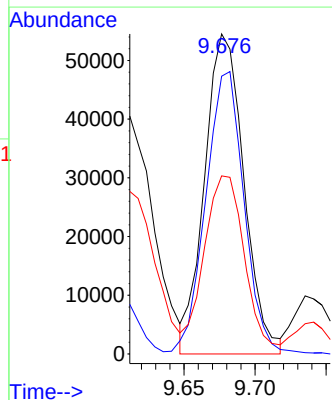
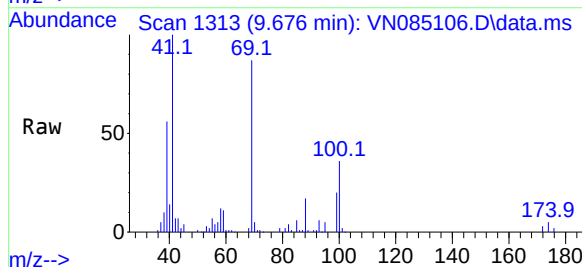
RT: 9.676 min Scan# 1313

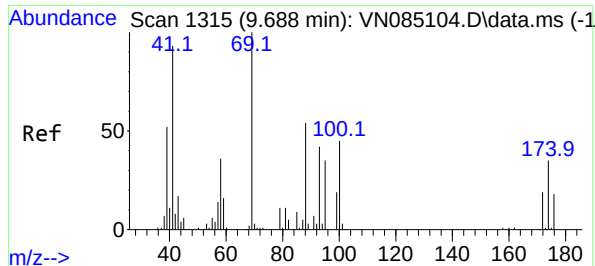
Delta R.T. -0.000 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Tgt Ion: 41	Resp: 104942
Ion Ratio	Lower Upper
41 100	
69 86.4	73.2 109.8
39 57.7	46.2 69.4





#49

1,4-Dioxane

Concen: 1191.861 ug/l

RT: 9.694 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 88 Resp: 36818

Ion Ratio Lower Upper

88 100

43 27.2 16.7 25.1

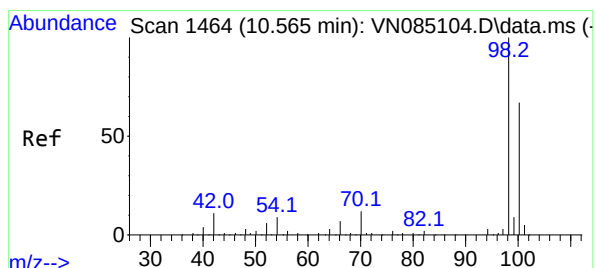
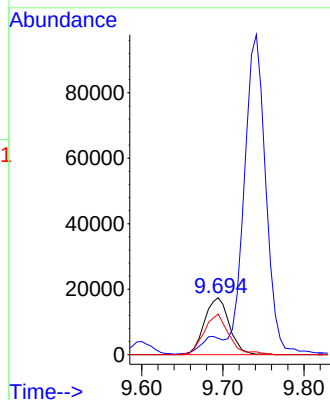
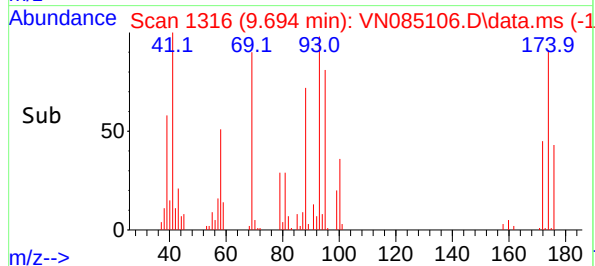
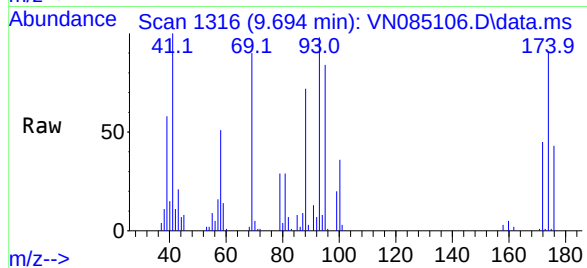
58 71.8 56.5 84.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#50

Toluene-d8

Concen: 50.332 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085106.D

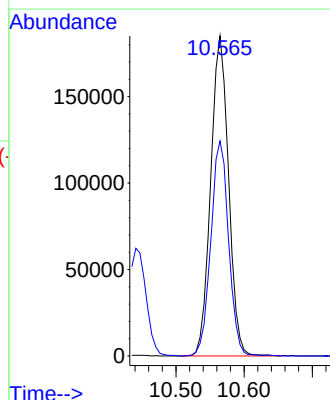
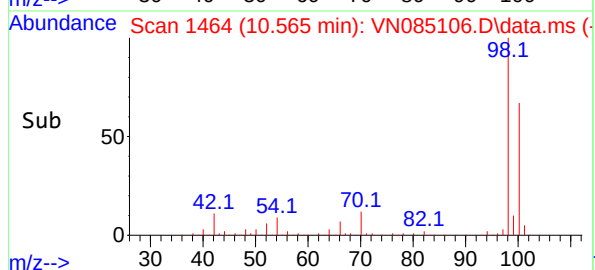
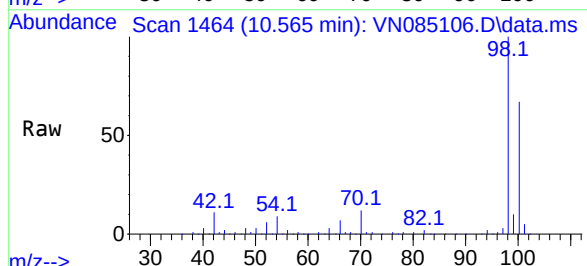
Acq: 05 Dec 2024 10:50

Tgt Ion: 98 Resp: 337580

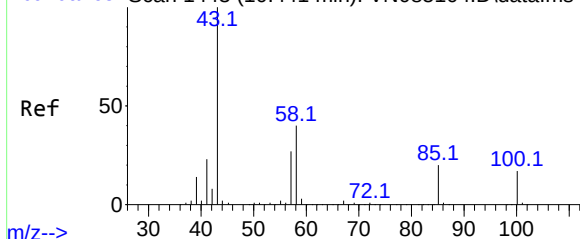
Ion Ratio Lower Upper

98 100

100 66.8 52.5 78.7



Abundance Scan 1443 (10.441 min): VN085104.D\data.ms (-



#51
4-Methyl-2-Pentanone
Concen: 301.988 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

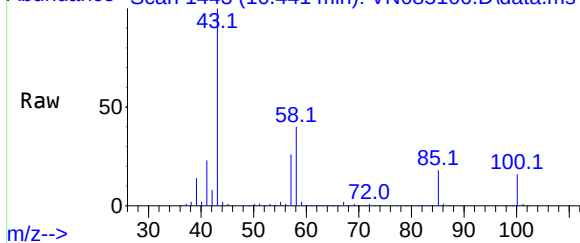
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 660270
Ion Ratio Lower Upper
43 100
58 40.6 32.1 48.1

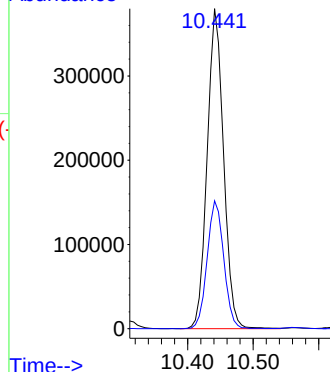
Manual Integrations
APPROVED

Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024

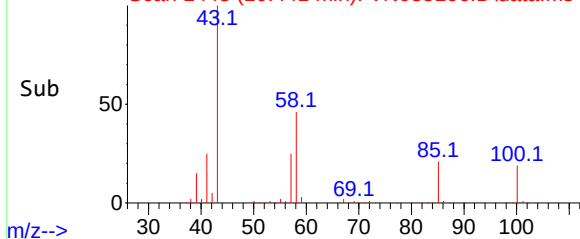
Abundance Scan 1443 (10.441 min): VN085106.D\data.ms (-



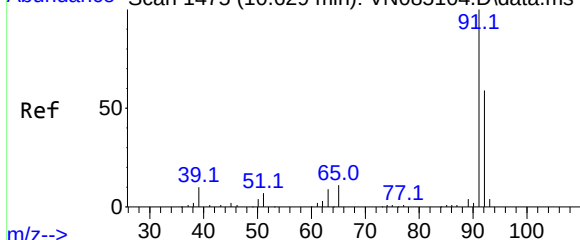
Abundance



Abundance Scan 1443 (10.441 min): VN085106.D\data.ms (-



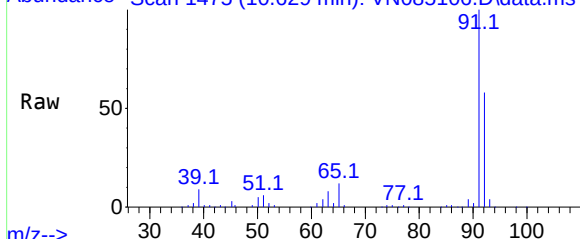
Abundance Scan 1475 (10.629 min): VN085104.D\data.ms (-



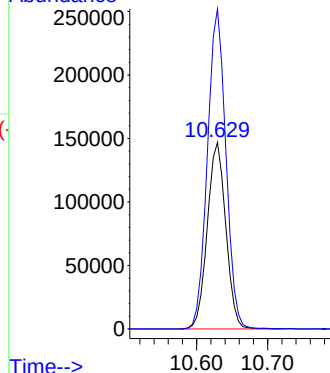
#52
Toluene
Concen: 56.007 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

Tgt Ion: 92 Resp: 265830
Ion Ratio Lower Upper
92 100
91 171.4 136.7 205.1

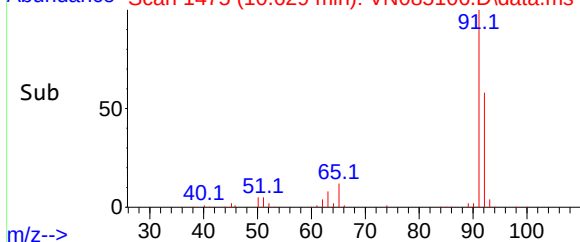
Abundance Scan 1475 (10.629 min): VN085106.D\data.ms (-

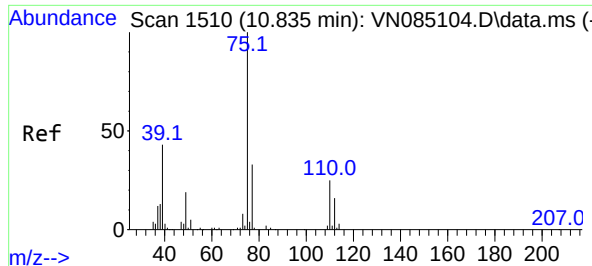


Abundance



Abundance Scan 1475 (10.629 min): VN085106.D\data.ms (-





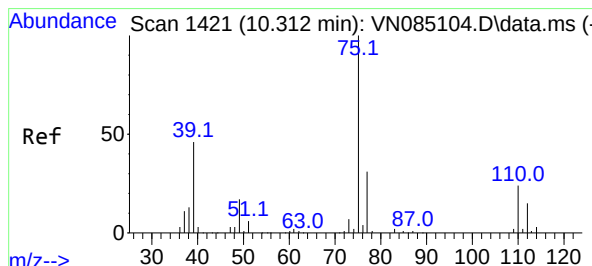
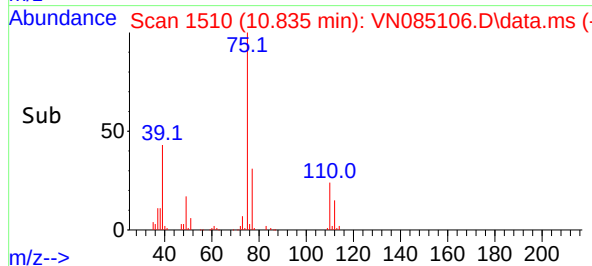
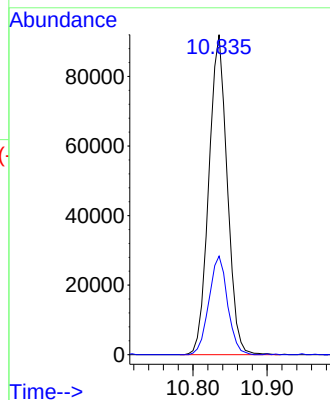
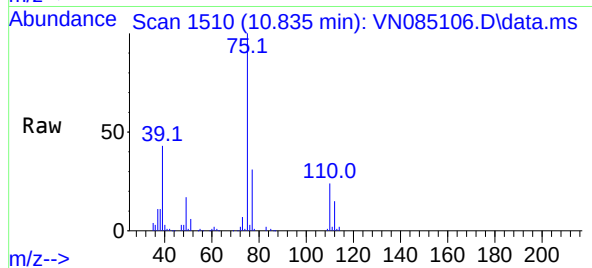
#53
t-1,3-Dichloropropene
Concen: 54.346 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 158454
Ion Ratio Lower Upper
75 100
77 30.8 25.0 37.4

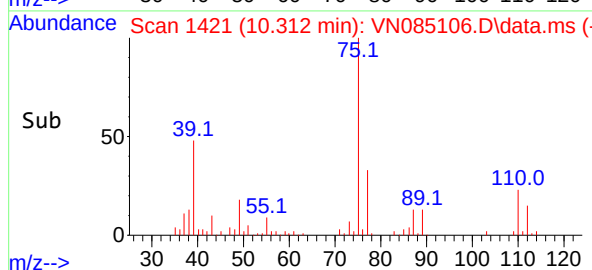
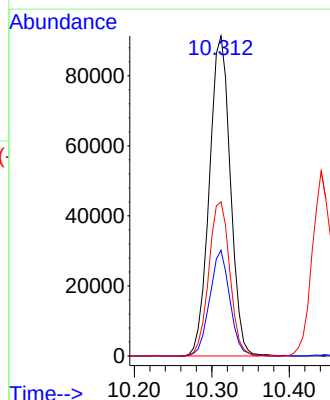
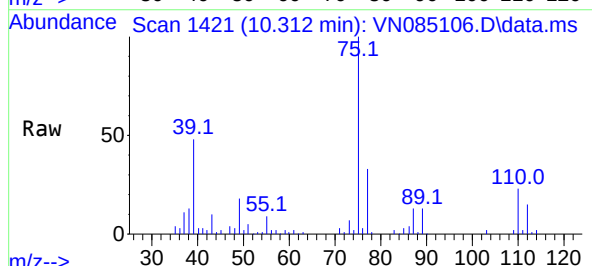
Manual Integrations
APPROVED

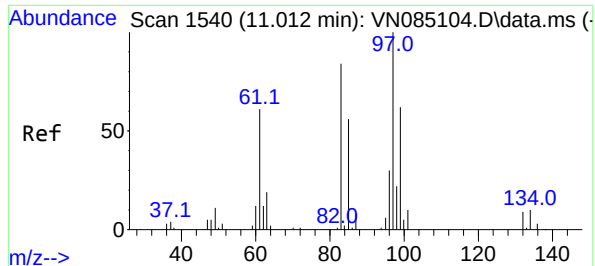
Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024



#54
cis-1,3-Dichloropropene
Concen: 55.623 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

Tgt Ion: 75 Resp: 172051
Ion Ratio Lower Upper
75 100
77 33.0 25.0 37.4
39 48.1 37.6 56.4





#55

1,1,2-Trichloroethane

Concen: 55.586 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.000 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 97 Resp: 98272

Ion Ratio Lower Upper

97 100

83 81.6 67.4 101.2

85 53.8 43.1 64.7

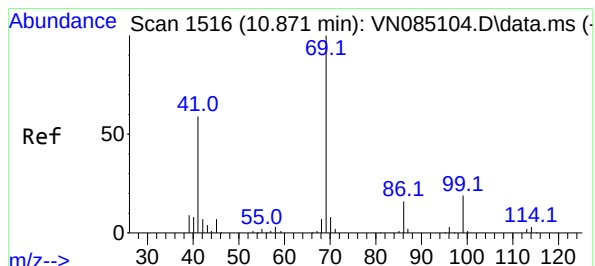
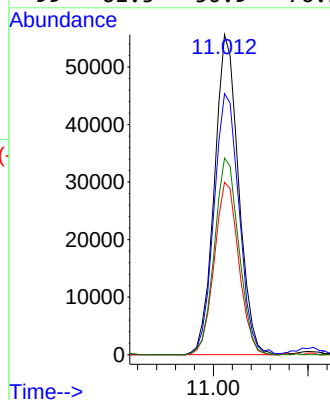
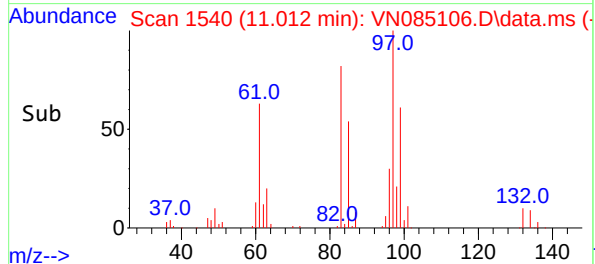
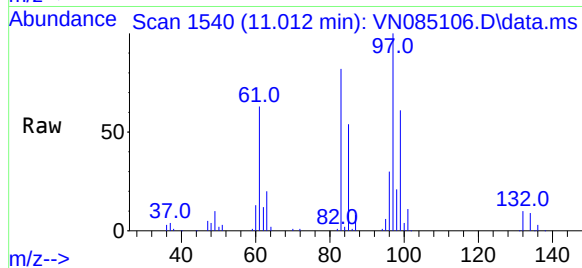
99 61.5 50.9 76.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#56

Ethyl methacrylate

Concen: 61.862 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

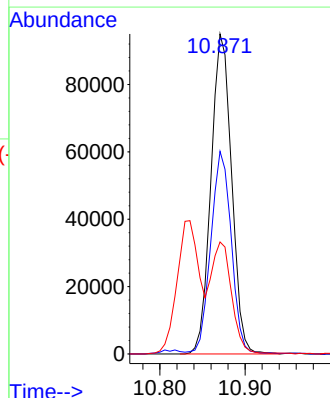
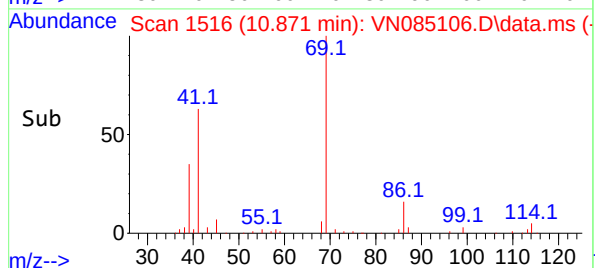
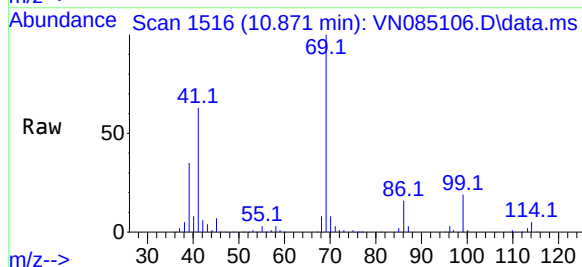
Tgt Ion: 69 Resp: 159812

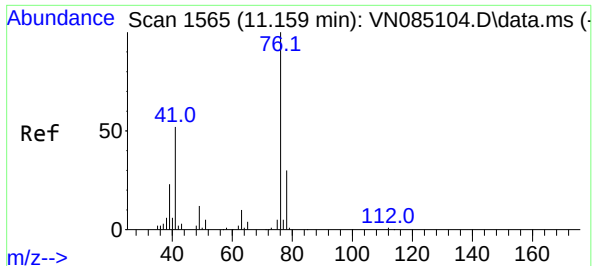
Ion Ratio Lower Upper

69 100

41 62.7 50.0 75.0

39 34.3 27.0 40.6





#57

1,3-Dichloropropane

Concen: 54.394 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. -0.000 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 169248

Ion Ratio Lower Upper

76 100

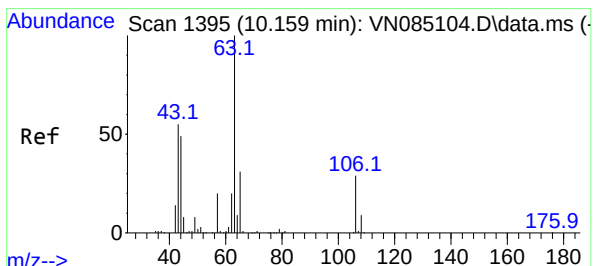
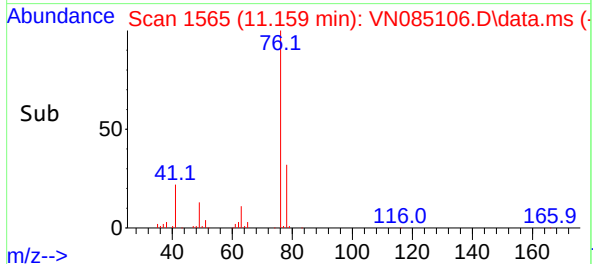
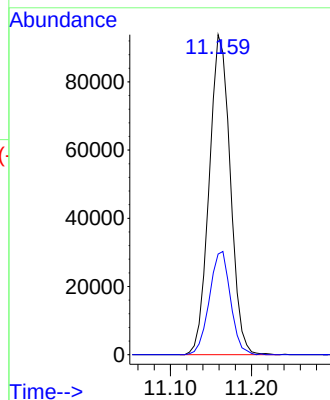
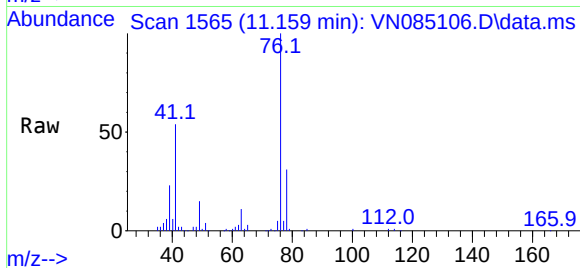
78 32.3 26.1 39.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#58

2-Chloroethyl Vinyl ether

Concen: 301.608 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN085106.D

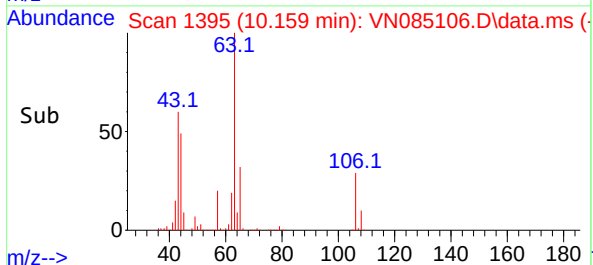
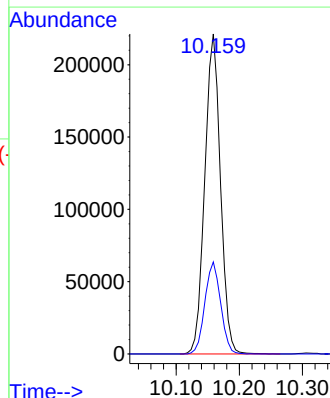
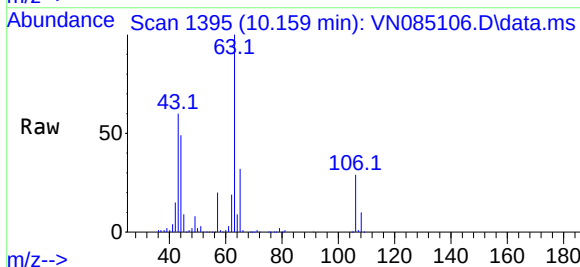
Acq: 05 Dec 2024 10:50

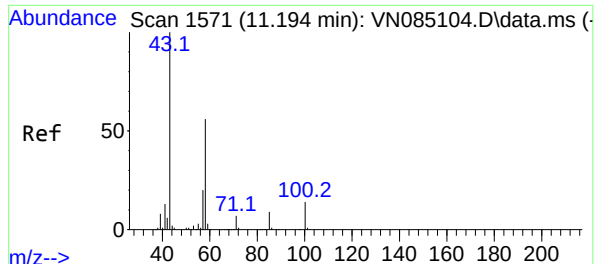
Tgt Ion: 63 Resp: 382201

Ion Ratio Lower Upper

63 100

106 28.9 23.0 34.6





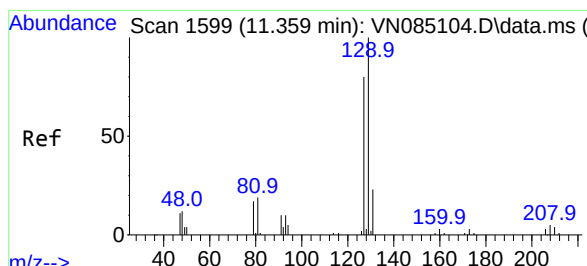
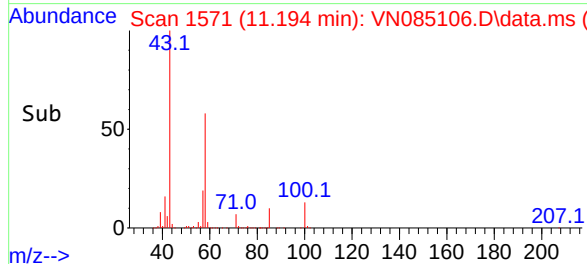
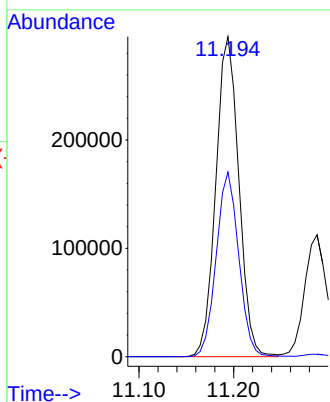
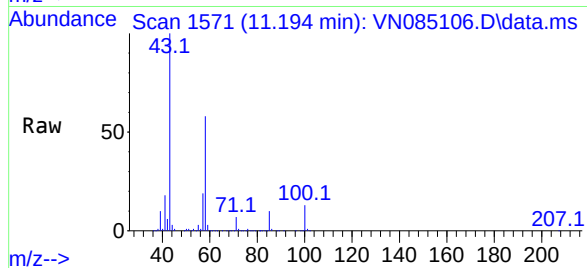
#59
2-Hexanone
Concen: 305.080 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 49888
Ion Ratio Lower Upper
43 100
58 56.4 28.3 85.0

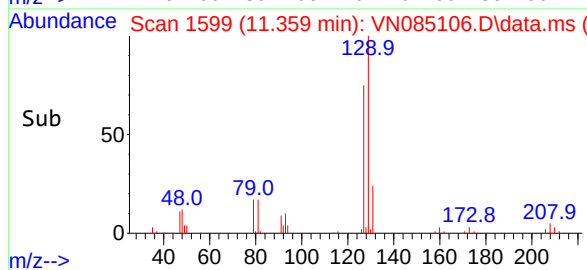
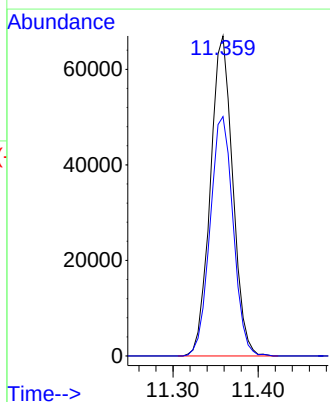
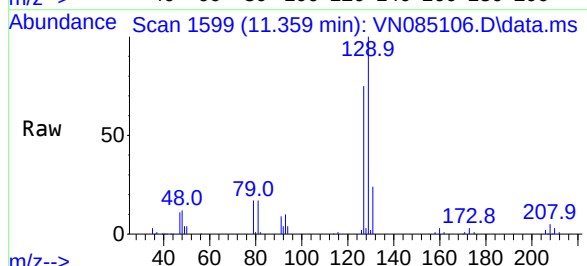
Manual Integrations
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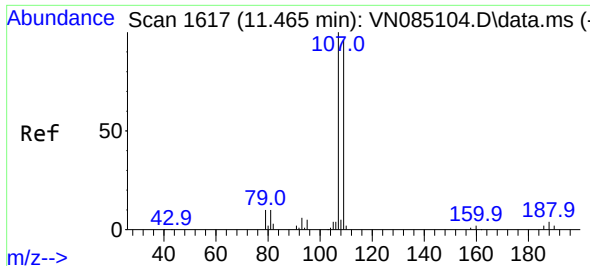
Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024



#60
Dibromochloromethane
Concen: 56.549 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

Tgt Ion:129 Resp: 122183
Ion Ratio Lower Upper
129 100
127 77.1 39.2 117.6





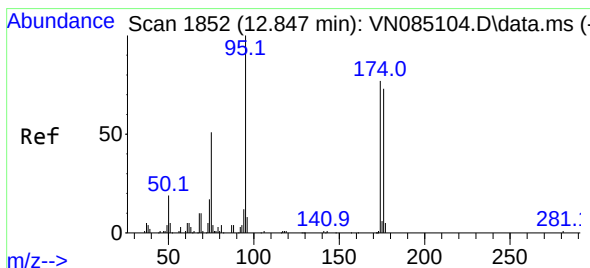
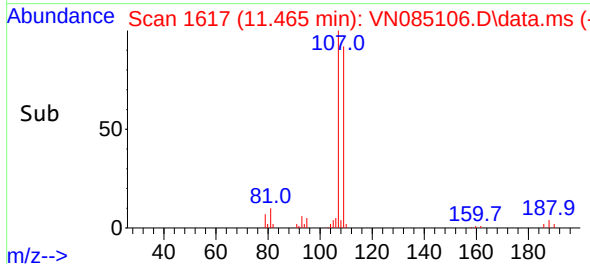
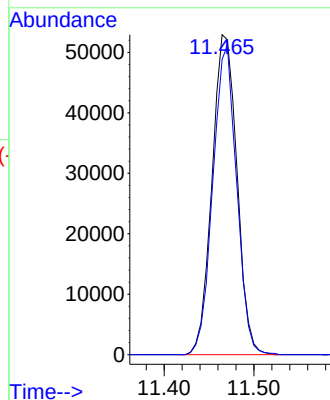
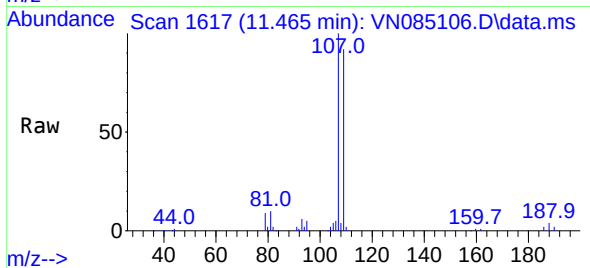
#61
1,2-Dibromoethane
Concen: 55.700 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDC050

Tgt Ion:107 Resp: 10191
Ion Ratio Lower Upper
107 100
109 92.2 76.1 114.1

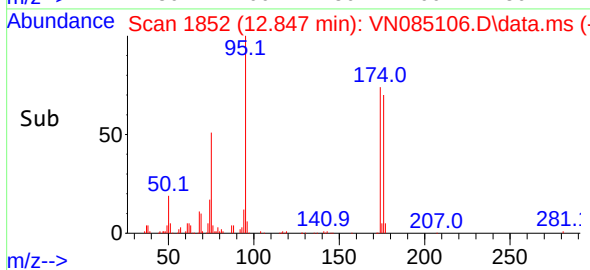
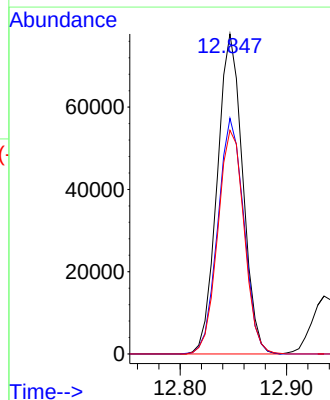
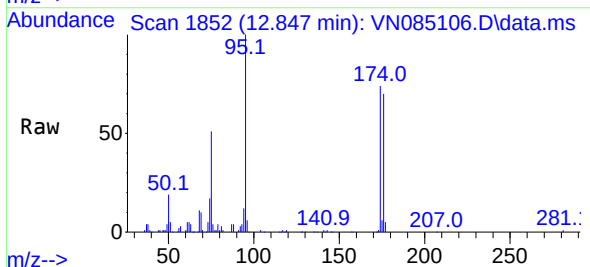
Manual Integrations
APPROVED

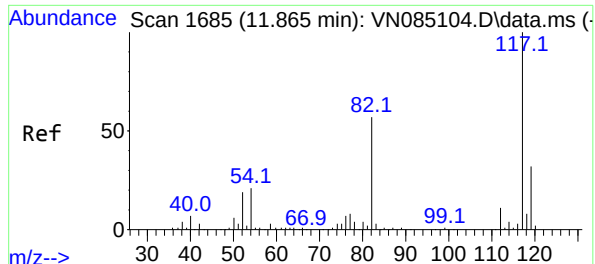
Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024



#62
4-Bromofluorobenzene
Concen: 51.450 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

Tgt Ion: 95 Resp: 129048
Ion Ratio Lower Upper
95 100
174 75.3 0.0 146.6
176 72.3 0.0 141.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:117 Resp: 24336

Ion Ratio Lower Upper

117 100

82 54.4 46.0 69.0

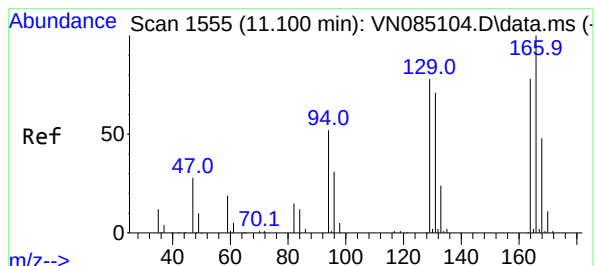
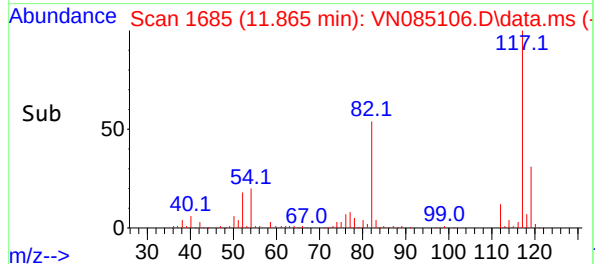
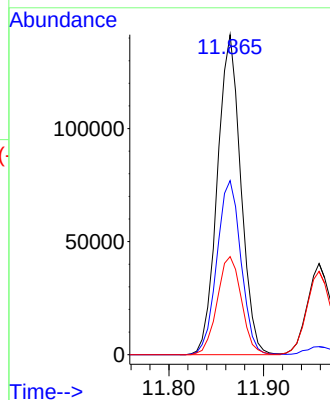
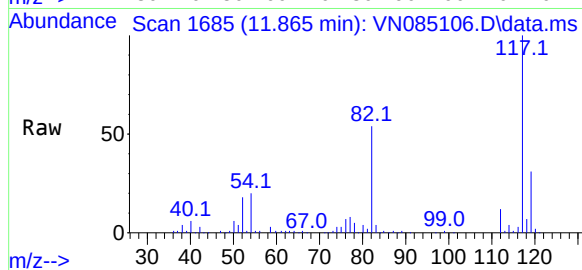
119 30.7 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#64

Tetrachloroethene

Concen: 55.611 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Tgt Ion:164 Resp: 91195

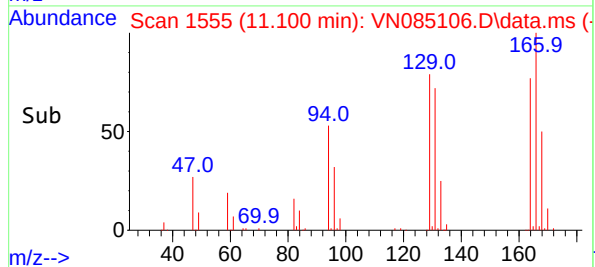
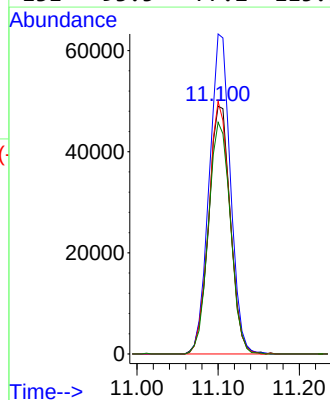
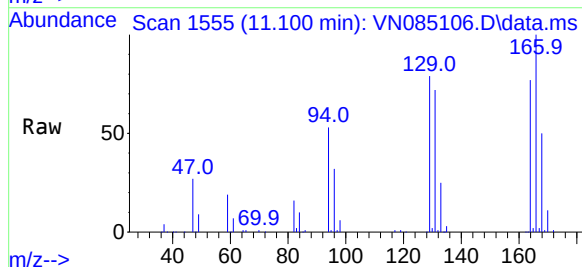
Ion Ratio Lower Upper

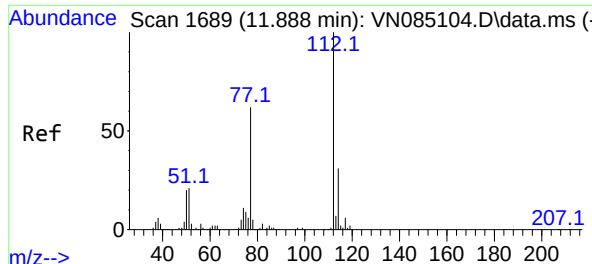
164 100

166 129.1 100.6 151.0

129 101.9 77.7 116.5

131 93.5 77.2 115.8





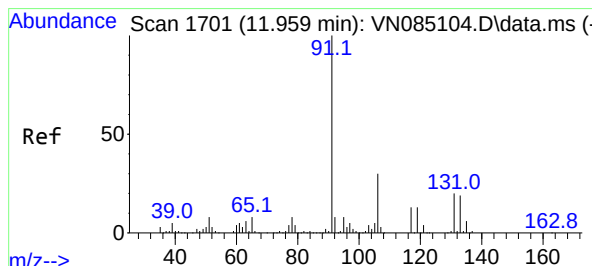
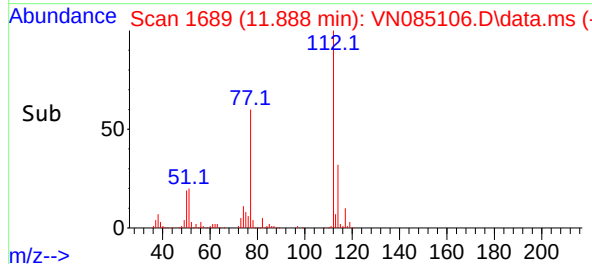
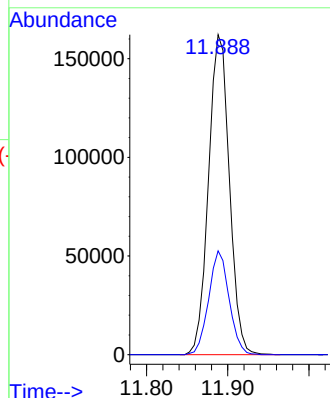
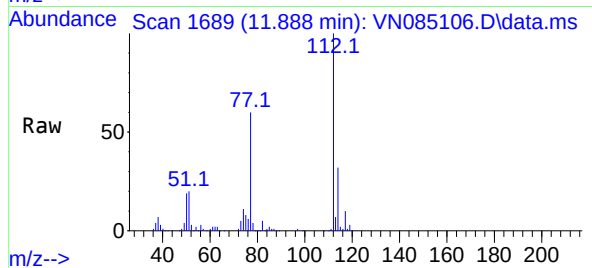
#65
Chlorobenzene
Concen: 52.389 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 289150
Ion Ratio Lower Upper
112 100
114 32.4 25.8 38.6

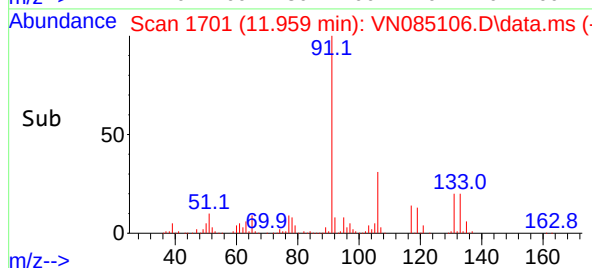
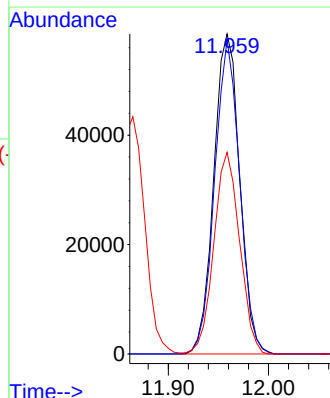
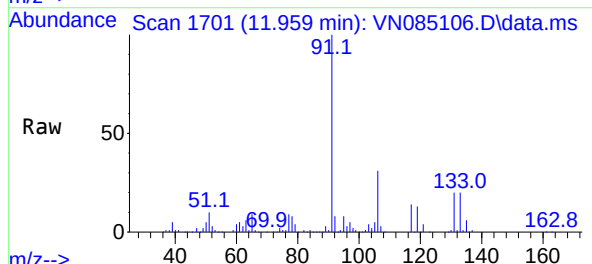
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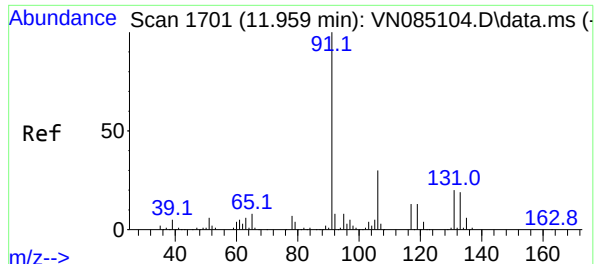
Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024



#66
1,1,1,2-Tetrachloroethane
Concen: 54.000 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

Tgt Ion:131 Resp: 104936
Ion Ratio Lower Upper
131 100
133 94.8 47.8 143.4
119 62.8 32.1 96.3





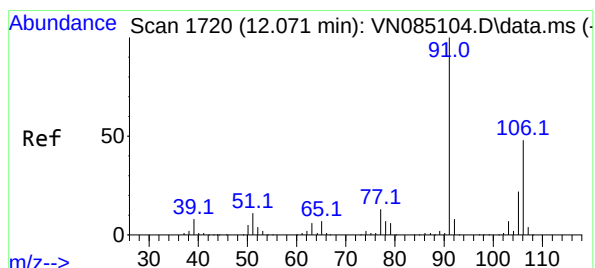
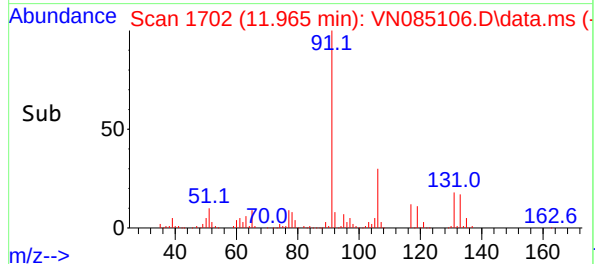
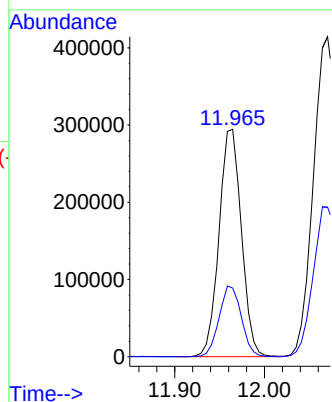
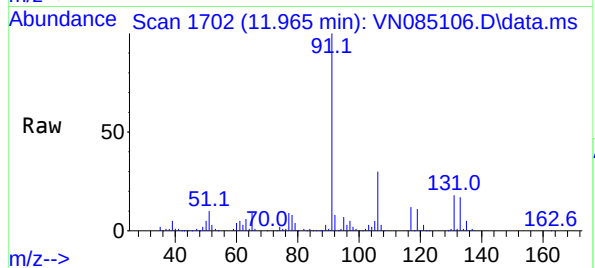
#67
Ethyl Benzene
Concen: 56.913 ug/l
RT: 11.965 min Scan# 1719
Delta R.T. 0.006 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 50962
Ion Ratio Lower Upper
91 100
106 30.2 24.7 37.1

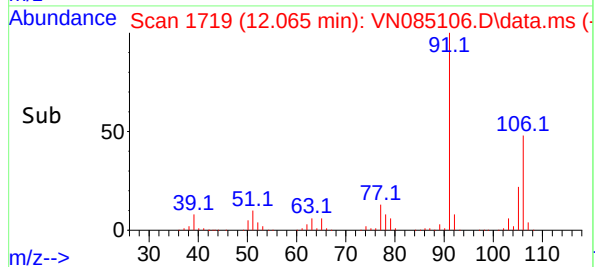
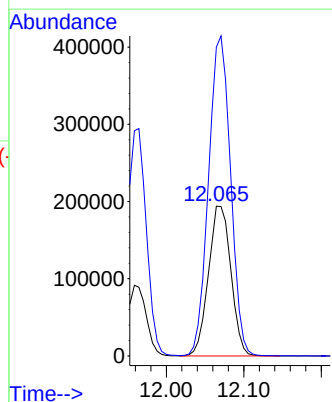
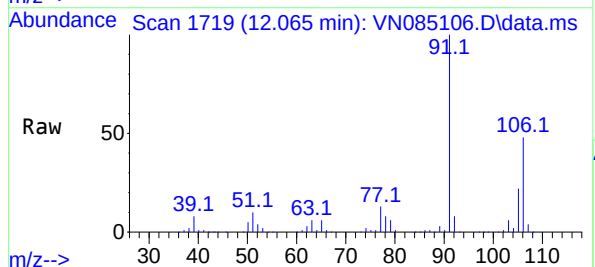
Manual Integrations
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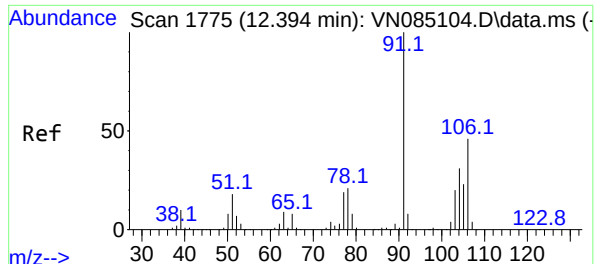
Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024



#68
m/p-Xylenes
Concen: 114.598 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

Tgt Ion:106 Resp: 390678
Ion Ratio Lower Upper
106 100
91 209.9 168.0 252.0





#69

o-Xylene

Concen: 57.479 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:106 Resp: 18639

Ion Ratio Lower Upper

106 100

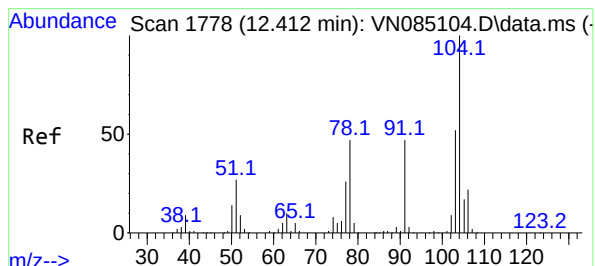
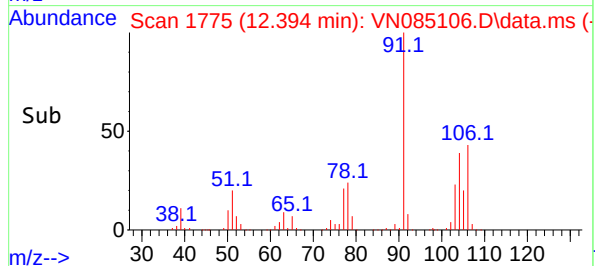
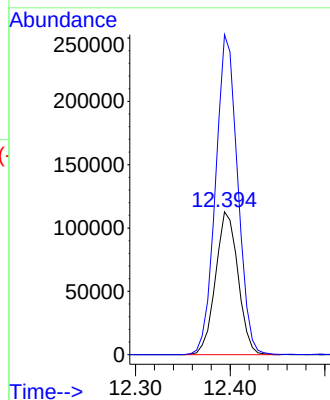
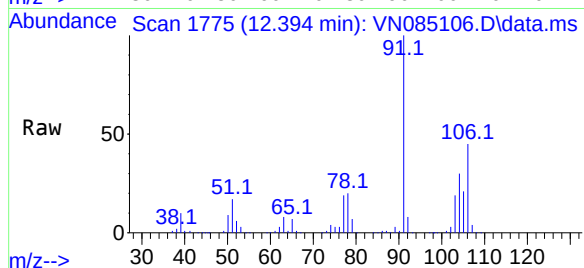
91 220.2 110.7 331.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#70

Styrene

Concen: 60.032 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. 0.006 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

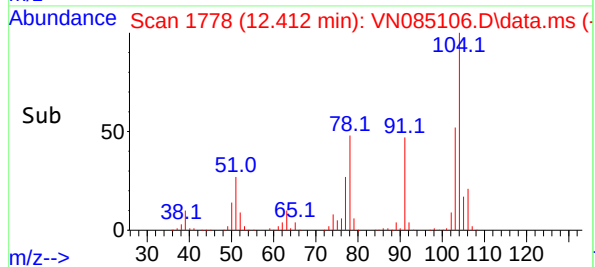
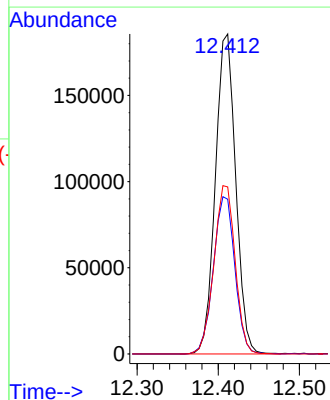
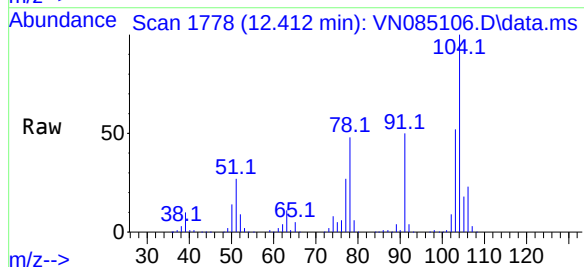
Tgt Ion:104 Resp: 323742

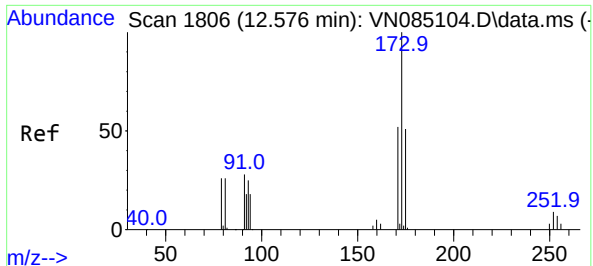
Ion Ratio Lower Upper

104 100

78 52.0 42.3 63.5

103 55.0 44.2 66.2





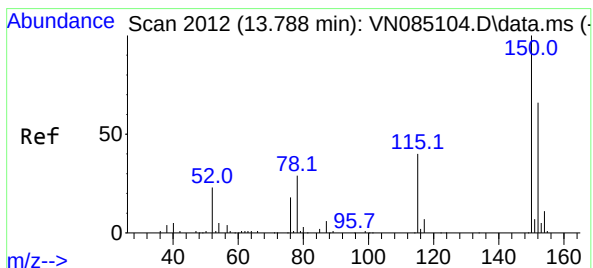
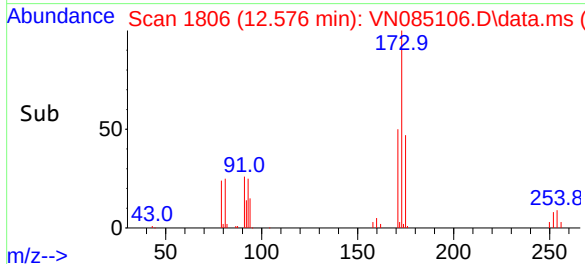
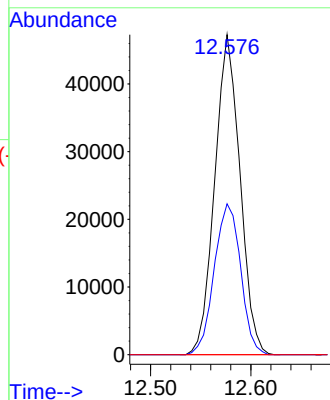
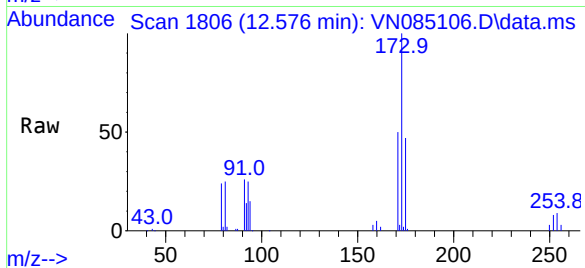
#71
Bromoform
Concen: 57.318 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 82680
Ion Ratio Lower Upper
173 100
175 49.2 23.8 71.2
254 0.0 0.0 0.0

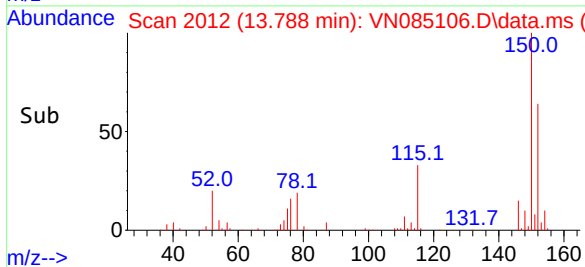
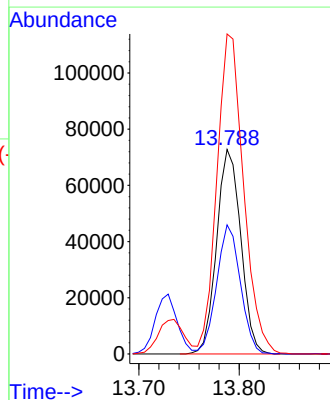
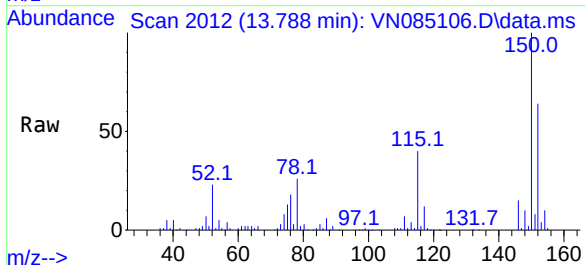
Manual Integrations
APPROVED

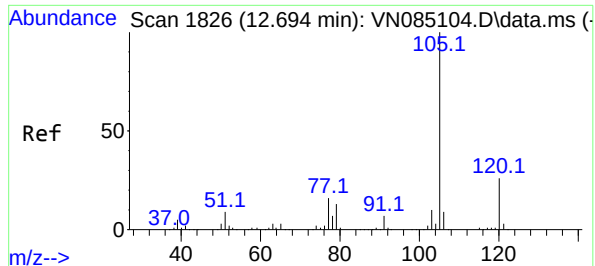
Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

Tgt Ion:152 Resp: 121642
Ion Ratio Lower Upper
152 100
115 62.3 31.7 95.1
150 172.6 0.0 351.4





#73

Isopropylbenzene

Concen: 55.808 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. -0.000 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Tgt Ion:105 Resp: 47891

Ion Ratio Lower Upper

105 100

120 26.3 13.0 39.0

Instrument :

MSVOA_N

ClientSampleId :

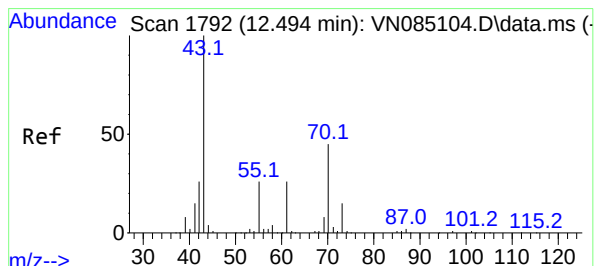
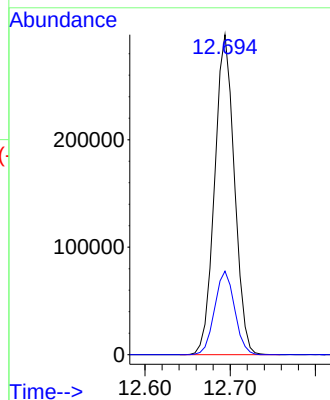
VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#74

N-ethyl acetate

Concen: 55.660 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. -0.000 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Tgt Ion: 43 Resp: 196824

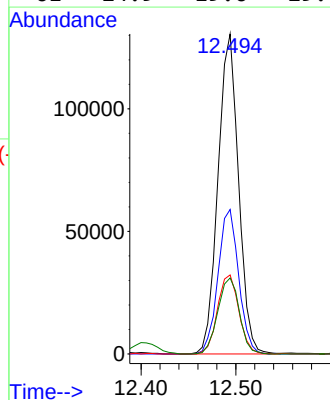
Ion Ratio Lower Upper

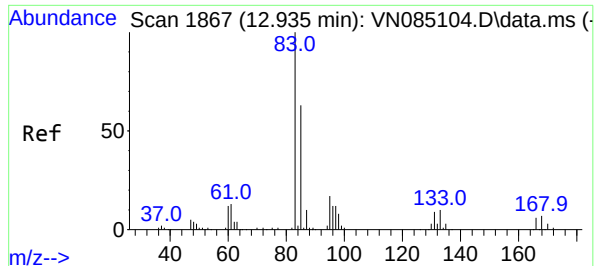
43 100

70 45.6 34.6 51.8

55 25.8 20.5 30.7

61 24.9 19.6 29.4





#75

1,1,2,2-Tetrachloroethane

Concen: 48.131 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. -0.000 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 14104

Ion Ratio Lower Upper

83 100

131 10.8 5.1 15.4

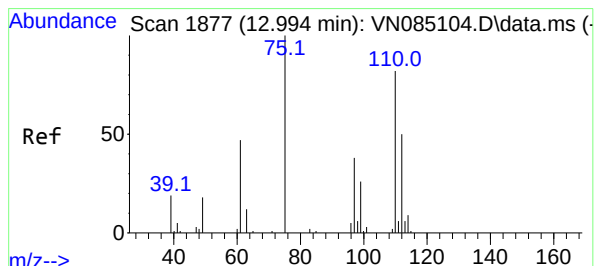
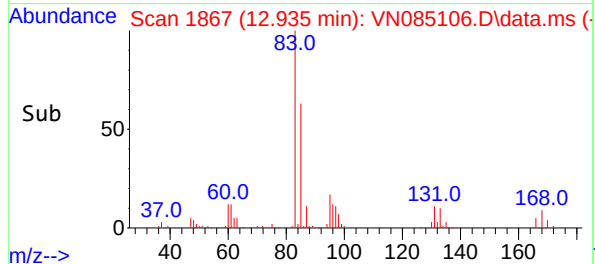
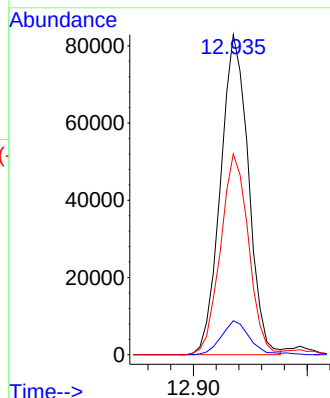
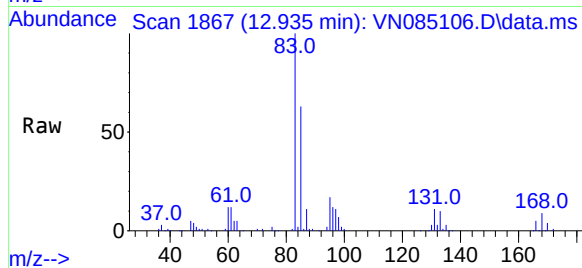
85 63.1 32.1 96.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#76

1,2,3-Trichloropropane

Concen: 51.480 ug/l m

RT: 12.994 min Scan# 1877

Delta R.T. -0.000 min

Lab File: VN085106.D

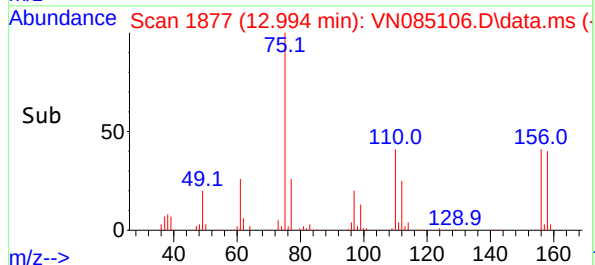
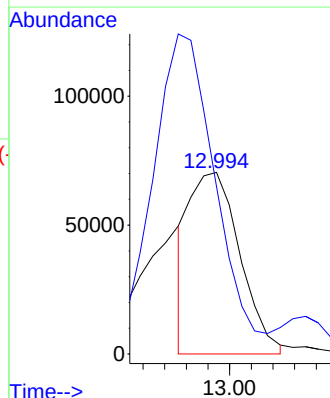
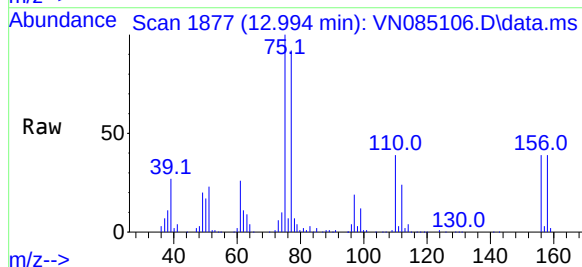
Acq: 05 Dec 2024 10:50

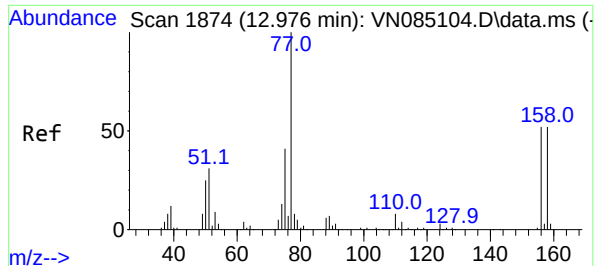
Tgt Ion: 75 Resp: 113903

Ion Ratio Lower Upper

75 100

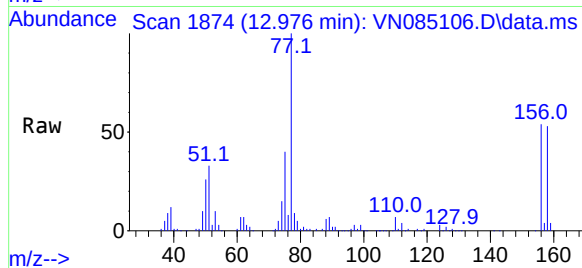
77 220.6 109.1 327.4





#77
Bromobenzene
Concen: 51.280 ug/l
RT: 12.976 min Scan# 11842
Delta R.T. -0.000 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

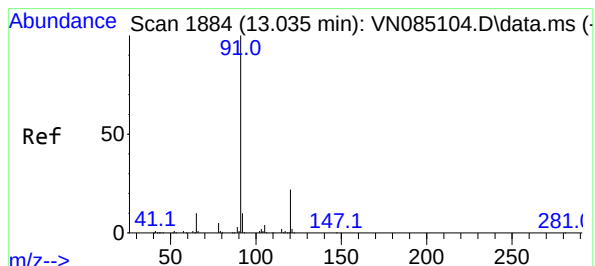
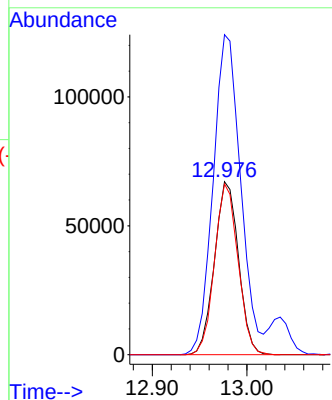
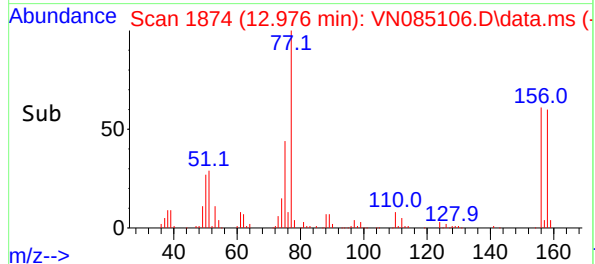
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



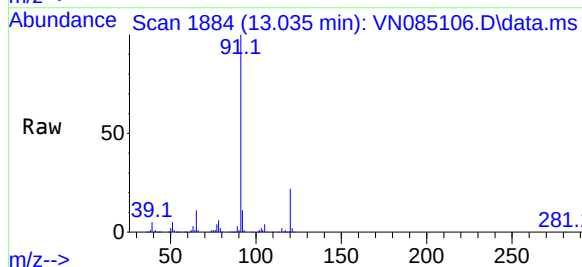
Tgt Ion:156 Resp: 11842
Ion Ratio Lower Upper
156 100
77 212.2 107.2 321.6
158 96.3 48.5 145.6

Manual Integrations
APPROVED

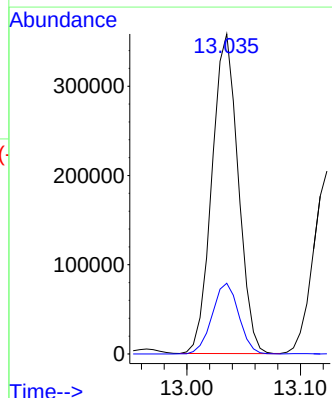
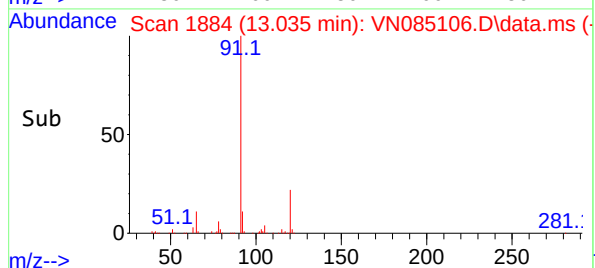
Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024

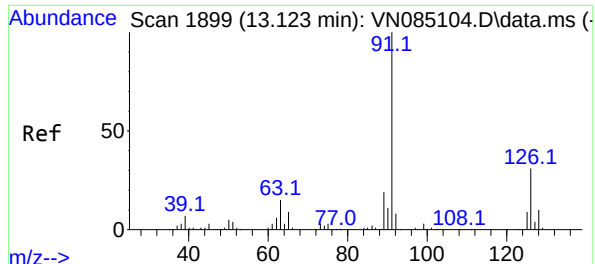


#78
n-propylbenzene
Concen: 58.085 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50



Tgt Ion: 91 Resp: 574922
Ion Ratio Lower Upper
91 100
120 22.4 11.3 33.9





#79

2-Chlorotoluene

Concen: 52.782 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 34874

Ion Ratio Lower Upper

91 100

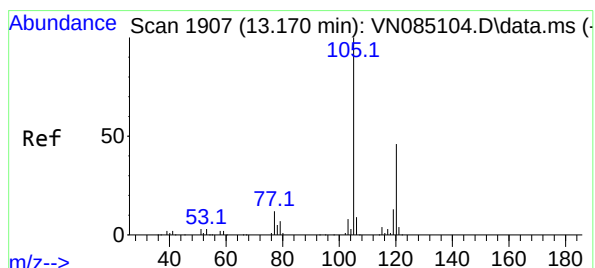
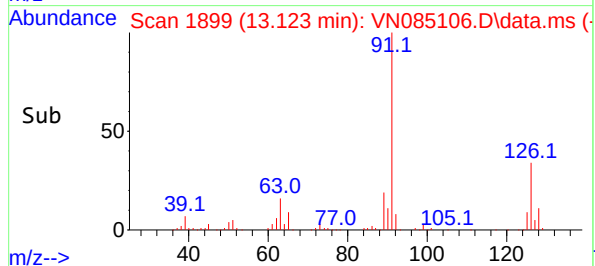
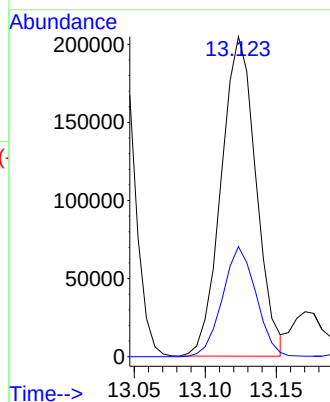
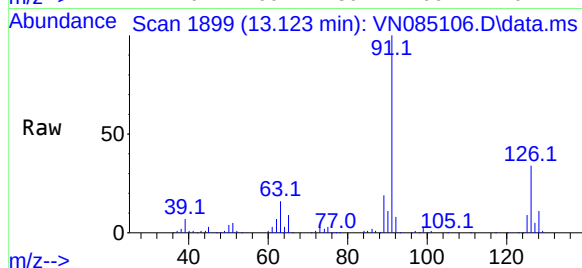
126 33.3 16.1 48.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#80

1,3,5-Trimethylbenzene

Concen: 58.573 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN085106.D

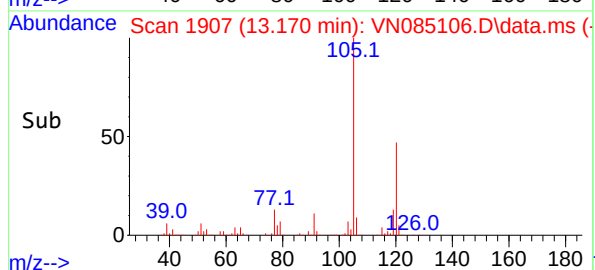
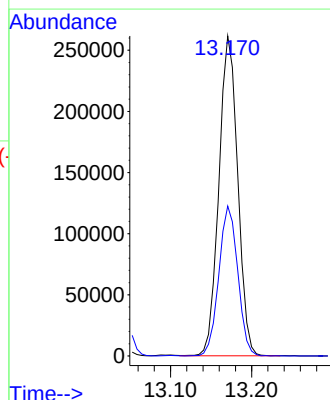
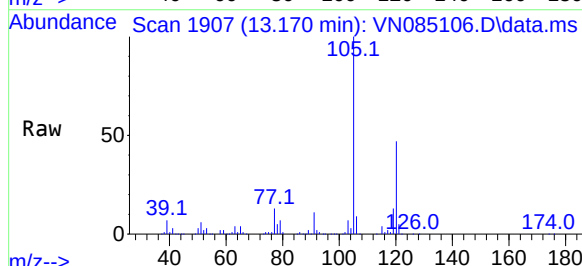
Acq: 05 Dec 2024 10:50

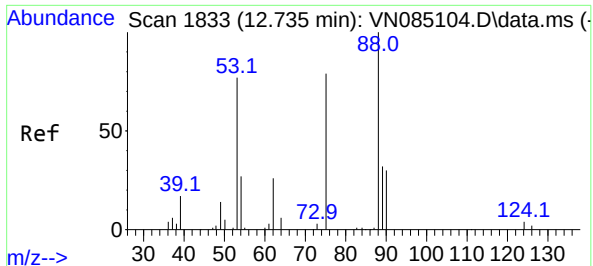
Tgt Ion:105 Resp: 421776

Ion Ratio Lower Upper

105 100

120 47.1 23.6 71.0





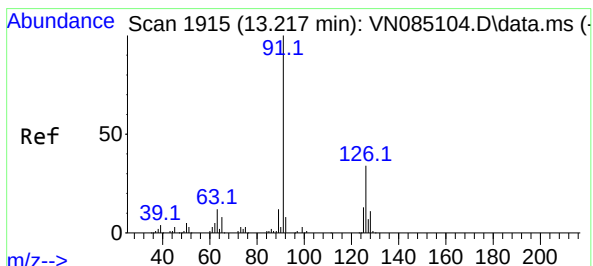
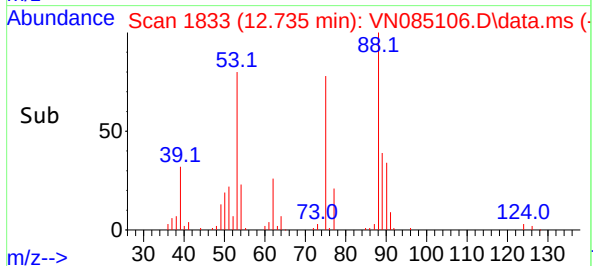
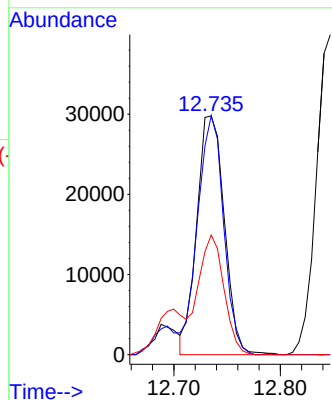
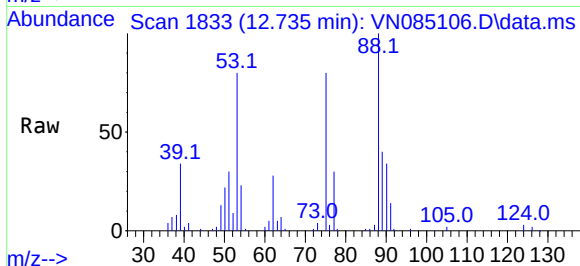
#81
trans-1,4-Dichloro-2-butene
Concen: 53.344 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 5346
Ion Ratio Lower Upper
75 100
53 94.3 78.2 117.4
89 46.3 37.9 56.9

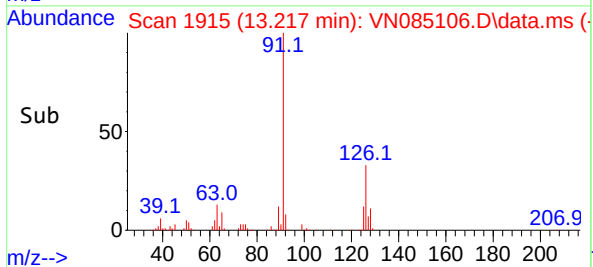
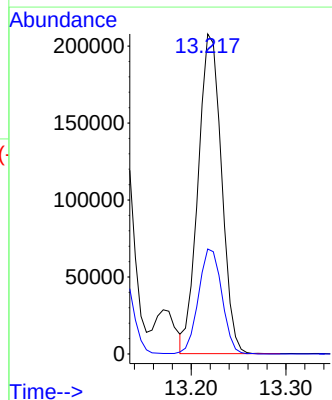
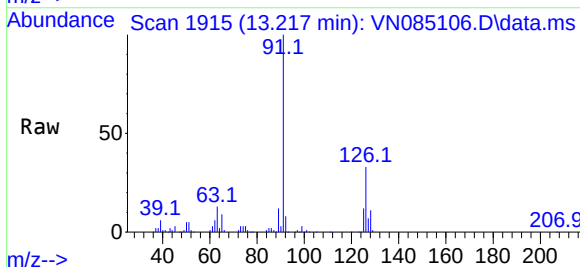
Manual Integrations
APPROVED

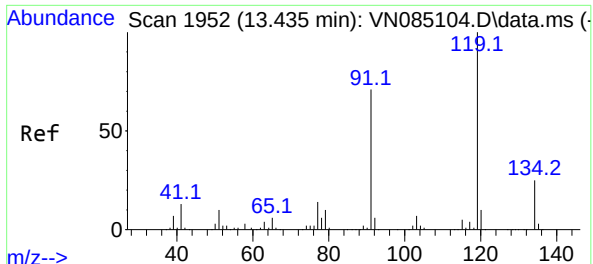
Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024



#82
4-Chlorotoluene
Concen: 51.778 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

Tgt Ion: 91 Resp: 356145
Ion Ratio Lower Upper
91 100
126 32.9 16.1 48.3





#83

tert-Butylbenzene

Concen: 57.933 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:119 Resp: 358938

Ion Ratio Lower Upper

119 100

91 66.5 35.1 105.5

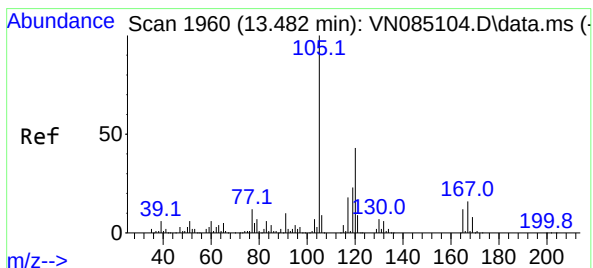
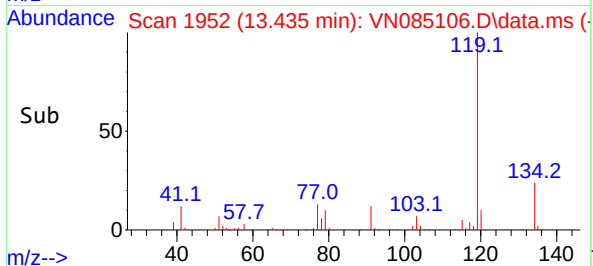
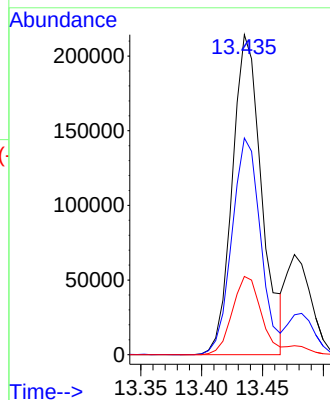
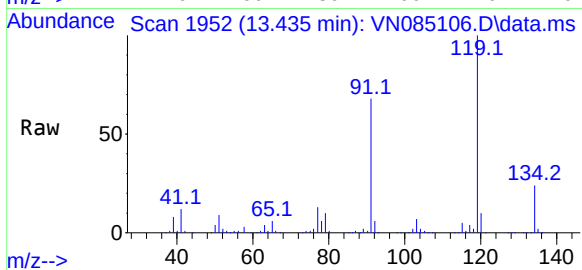
134 26.3 12.1 36.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#84

1,2,4-Trimethylbenzene

Concen: 56.249 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.006 min

Lab File: VN085106.D

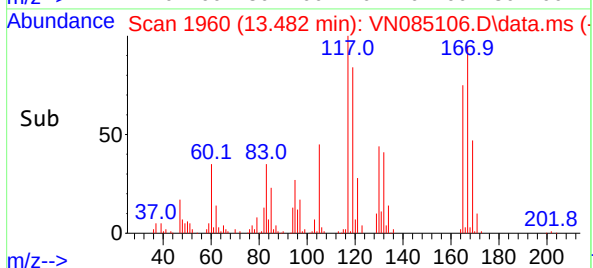
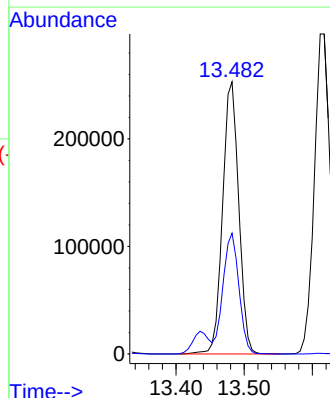
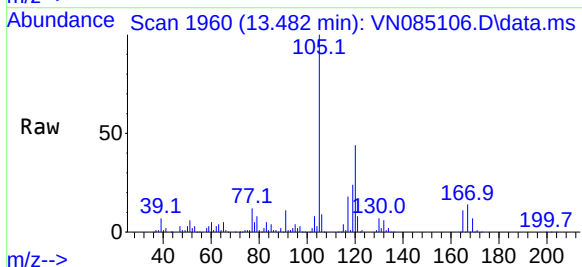
Acq: 05 Dec 2024 10:50

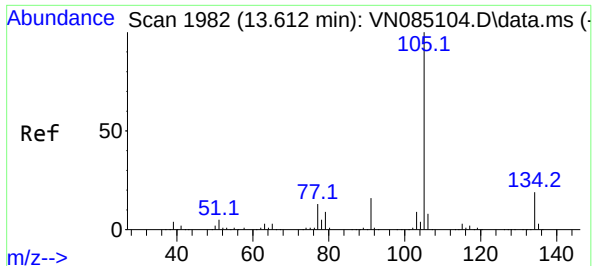
Tgt Ion:105 Resp: 416931

Ion Ratio Lower Upper

105 100

120 43.9 21.8 65.4





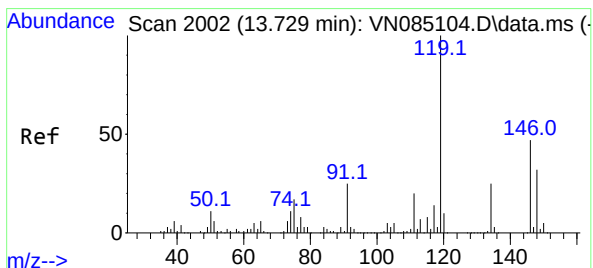
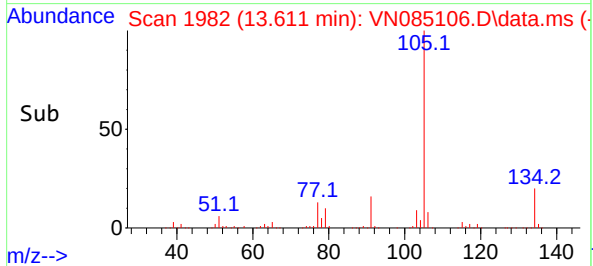
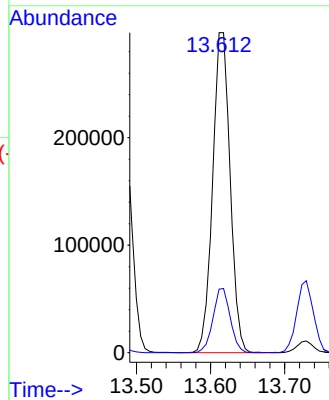
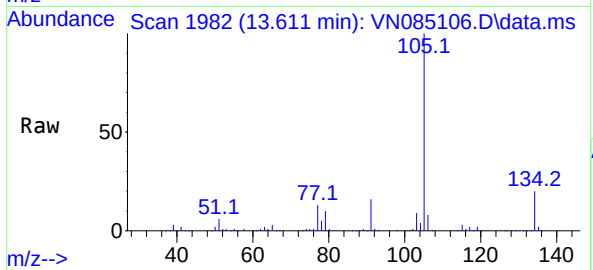
#85
sec-Butylbenzene
Concen: 58.301 ug/l
RT: 13.611 min Scan# 1982
Delta R.T. -0.000 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 48795
Ion Ratio Lower Upper
105 100
134 19.8 9.8 29.3

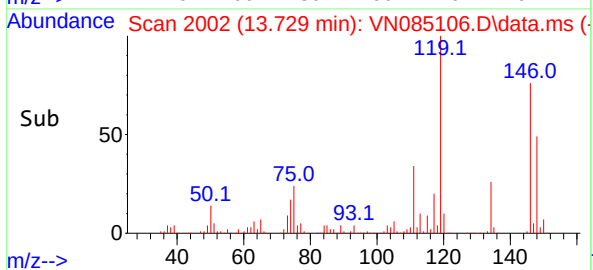
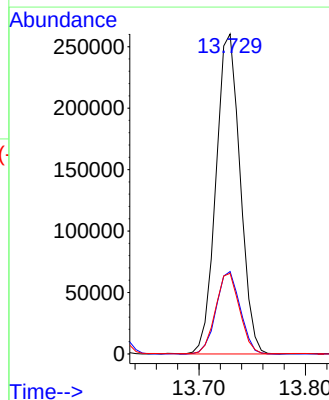
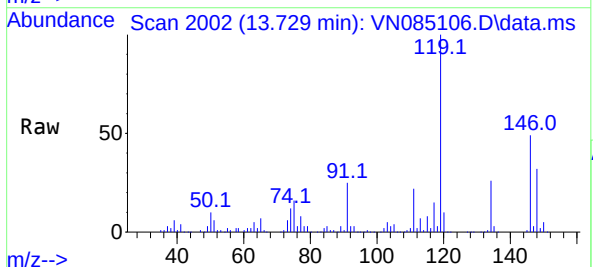
Manual Integrations
APPROVED

Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024

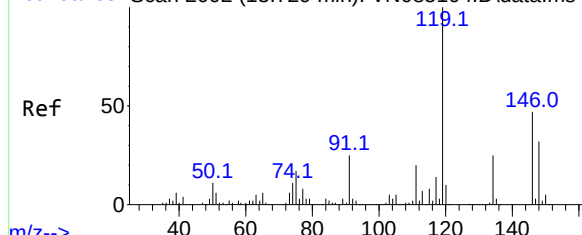


#86
p-Isopropyltoluene
Concen: 59.300 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN085106.D
Acq: 05 Dec 2024 10:50

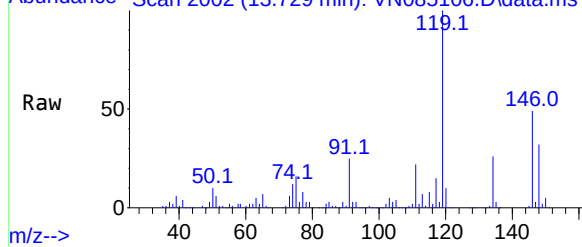
Tgt Ion:119 Resp: 409711
Ion Ratio Lower Upper
119 100
134 25.6 13.0 39.0
91 25.0 12.8 38.4



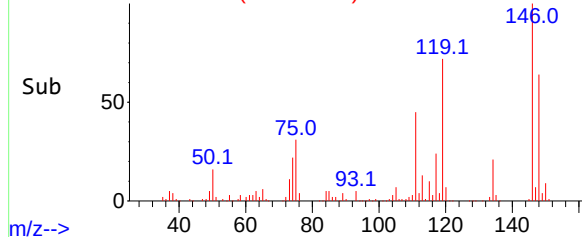
Abundance Scan 2002 (13.729 min): VN085104.D\data.ms (-



m/z--> Abundance Scan 2002 (13.729 min): VN085106.D\data.ms (-



m/z--> Abundance Scan 2002 (13.729 min): VN085106.D\data.ms (-



m/z-->

#87

1,3-Dichlorobenzene

Concen: 47.216 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Tgt Ion:146 Resp: 21506

Ion Ratio Lower Upper

146 100

111 42.8 21.6 65.0

148 64.0 32.2 96.6

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

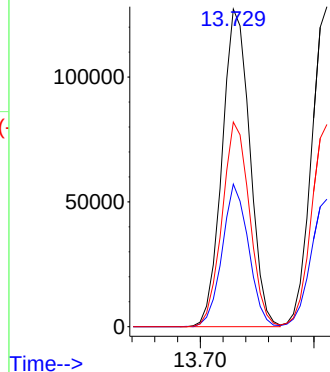
Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

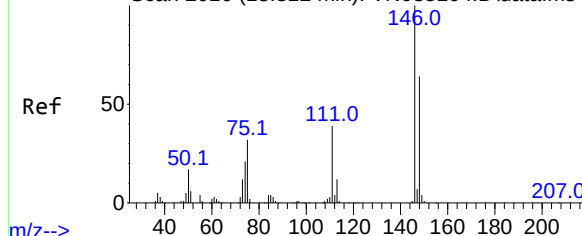
Supervised By :Mahesh Dadoda 12/06/2024

Abundance

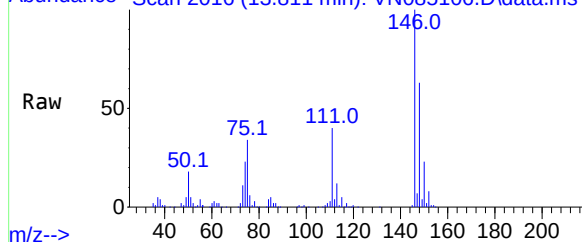


Time-->

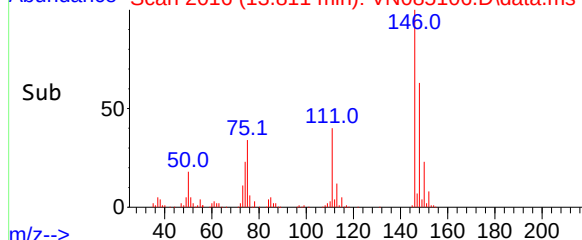
Abundance Scan 2016 (13.812 min): VN085104.D\data.ms (-



m/z--> Abundance Scan 2016 (13.811 min): VN085106.D\data.ms (-



m/z--> Abundance Scan 2016 (13.811 min): VN085106.D\data.ms (-



m/z-->

#88

1,4-Dichlorobenzene

Concen: 46.704 ug/l

RT: 13.811 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Tgt Ion:146 Resp: 217095

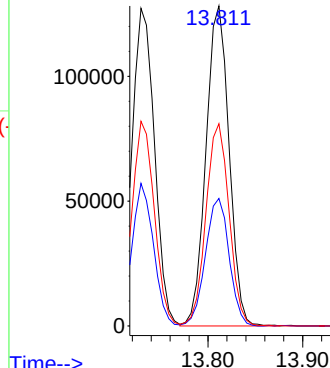
Ion Ratio Lower Upper

146 100

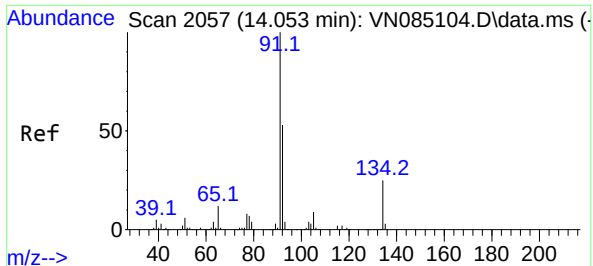
111 41.0 20.9 62.8

148 63.6 31.3 93.9

Abundance



Time-->



#89

n-Butylbenzene

Concen: 54.292 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Instrument :

MSVOA_N

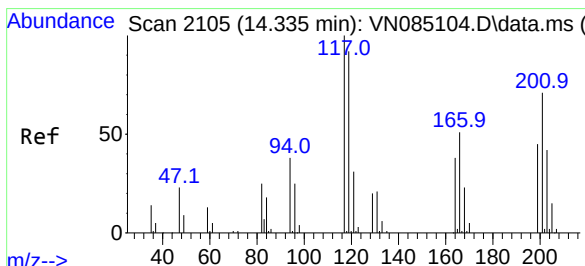
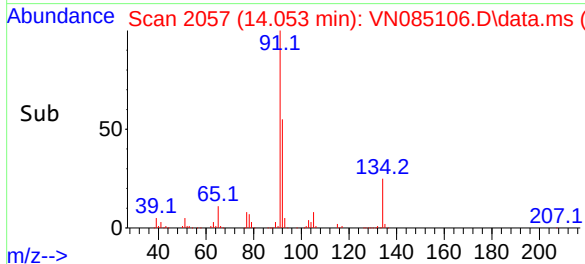
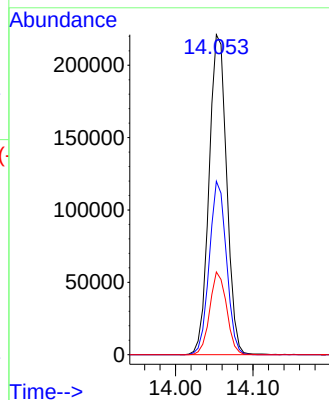
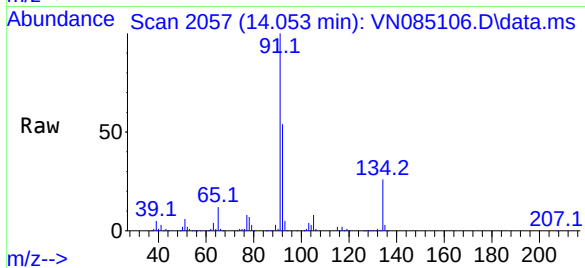
ClientSampleId :

VSTDCCC050

Tgt Ion:	91	Resp:	348839
Ion	Ratio	Lower	Upper
91	100		
92	52.7	26.8	80.3
134	24.7	12.8	38.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024



#90

Hexachloroethane

Concen: 51.391 ug/l

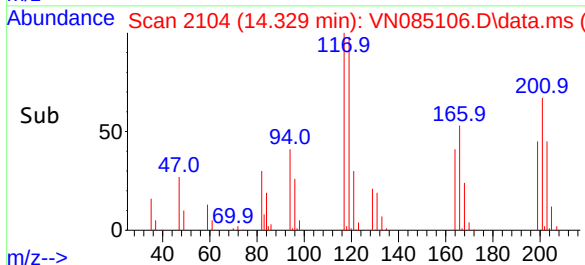
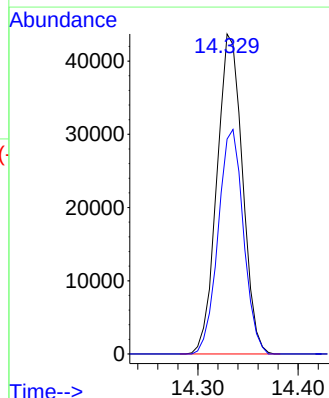
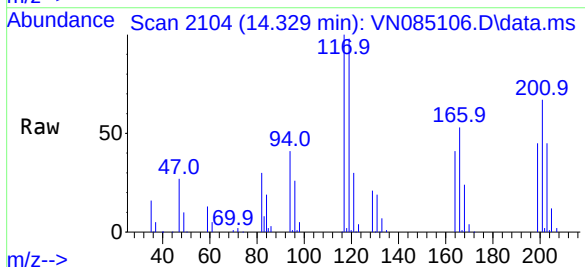
RT: 14.329 min Scan# 2104

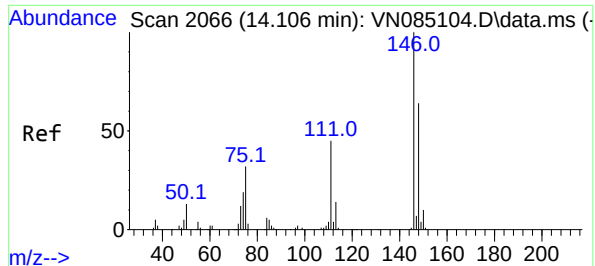
Delta R.T. -0.000 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Tgt Ion:	117	Resp:	77396
Ion	Ratio	Lower	Upper
117	100		
201	69.3	35.2	105.6





#91

1,2-Dichlorobenzene

Concen: 46.752 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:146 Resp: 20406

Ion Ratio Lower Upper

146 100

111 43.4 21.9 65.8

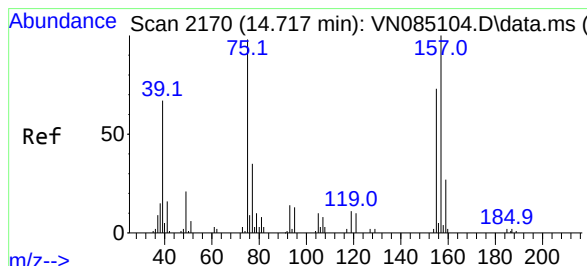
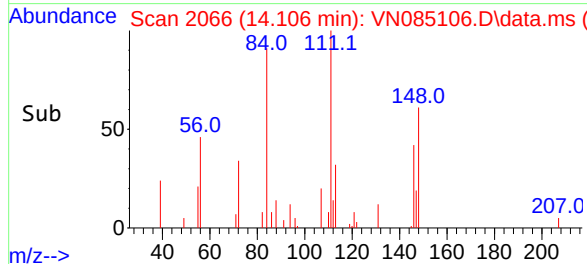
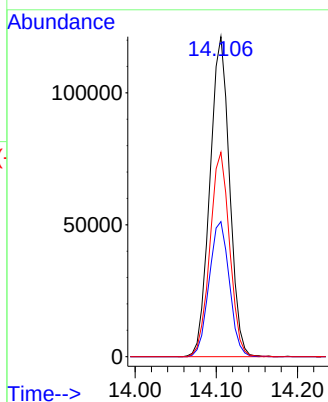
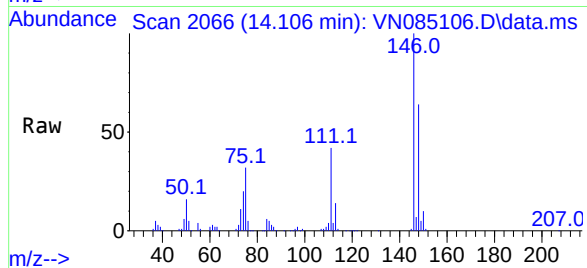
148 64.0 31.1 93.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 49.258 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. -0.000 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

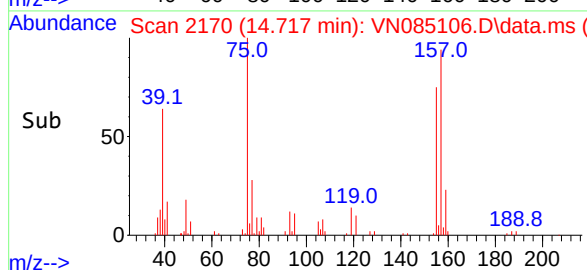
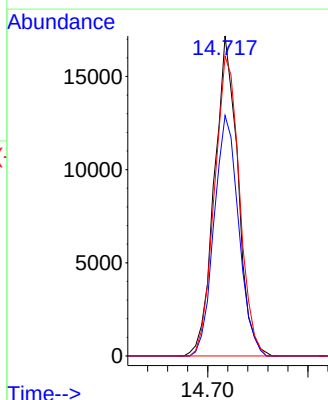
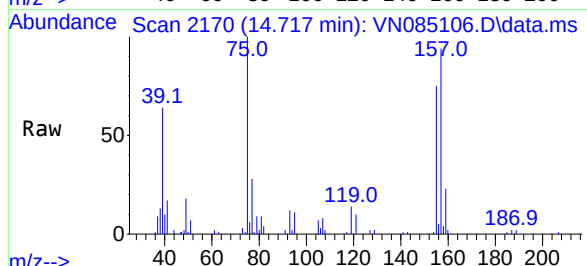
Tgt Ion: 75 Resp: 27912

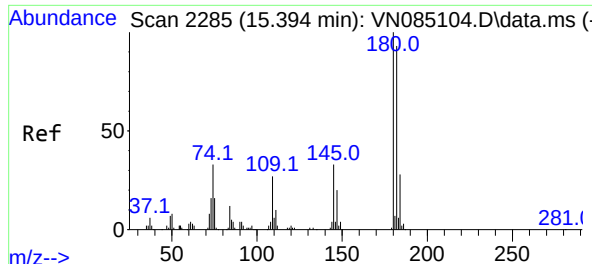
Ion Ratio Lower Upper

75 100

155 78.7 38.9 116.7

157 99.4 48.3 144.9





#93

1,2,4-Trichlorobenzene

Concen: 45.592 ug/l

RT: 15.394 min Scan# 2285

Delta R.T. 0.006 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:180 Resp: 108110

Ion Ratio Lower Upper

180 100

182 95.5 46.9 140.8

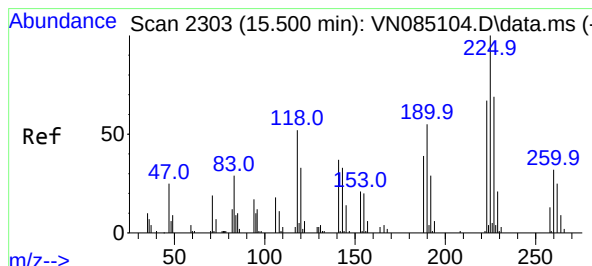
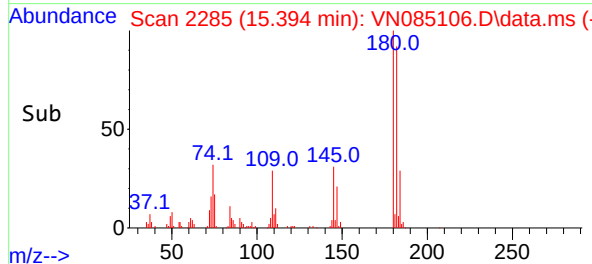
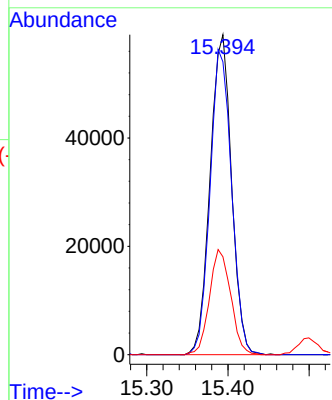
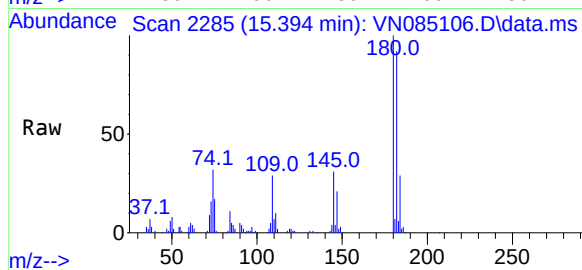
145 32.7 16.3 48.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#94

Hexachlorobutadiene

Concen: 47.904 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

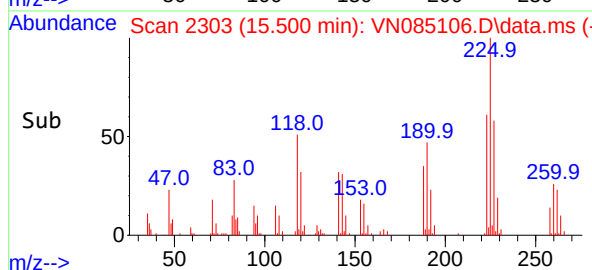
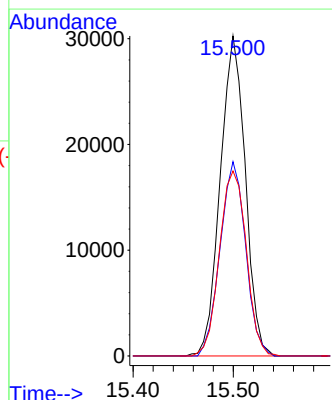
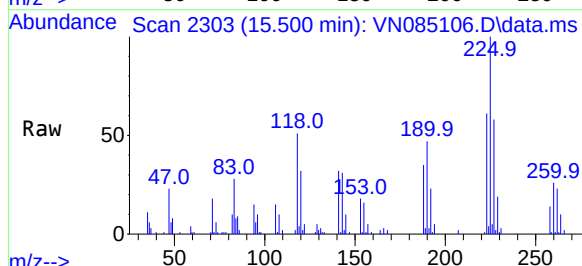
Tgt Ion:225 Resp: 52424

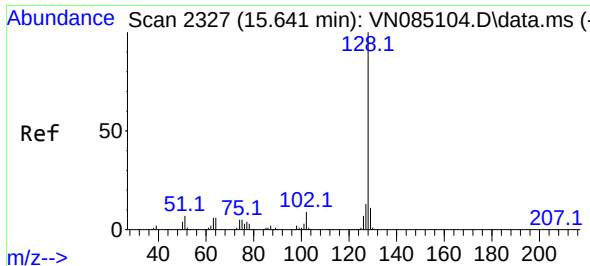
Ion Ratio Lower Upper

225 100

223 61.9 30.9 92.8

227 62.1 31.5 94.5





#95

Naphthalene

Concen: 49.662 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. -0.000 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:128 Resp: 335399

Ion Ratio Lower Upper

128 100

127 12.5 10.6 16.0

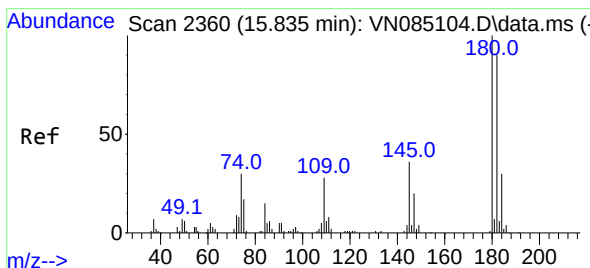
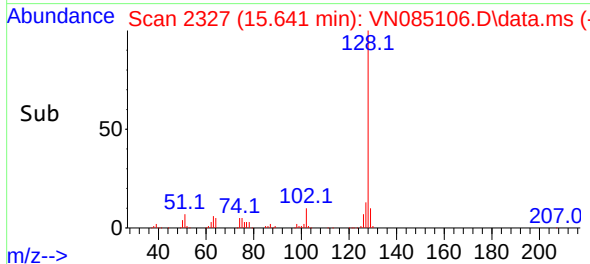
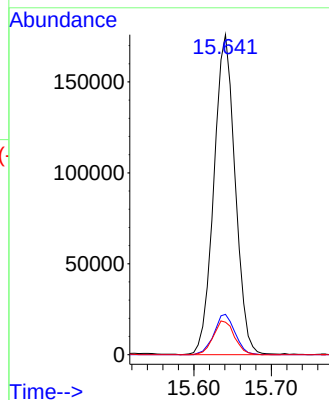
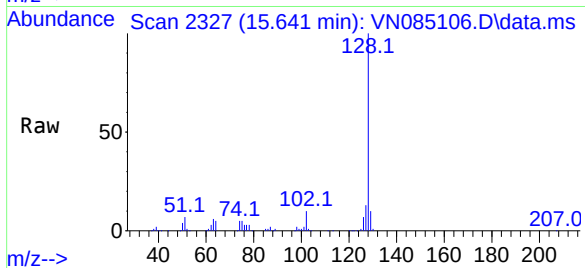
129 10.5 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#96

1,2,3-Trichlorobenzene

Concen: 46.644 ug/l

RT: 15.841 min Scan# 2361

Delta R.T. 0.006 min

Lab File: VN085106.D

Acq: 05 Dec 2024 10:50

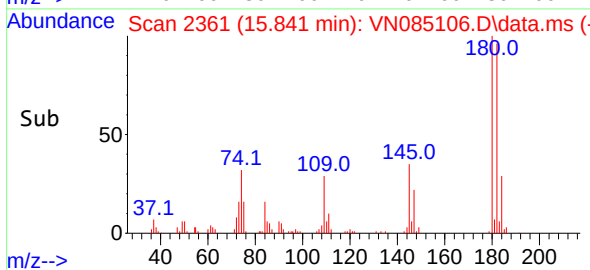
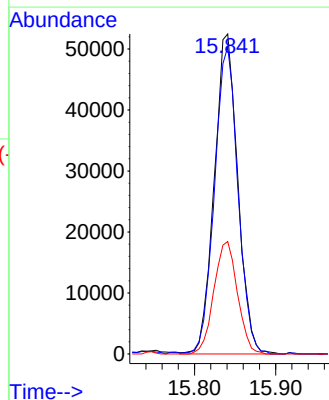
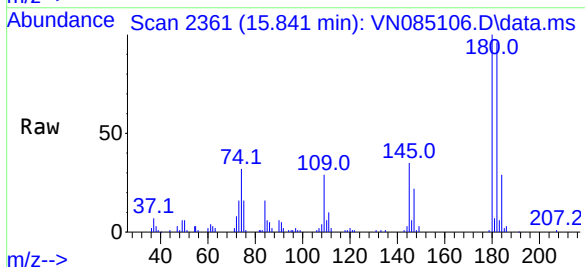
Tgt Ion:180 Resp: 105534

Ion Ratio Lower Upper

180 100

182 95.6 46.4 139.2

145 35.2 17.3 52.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120524\
Data File : VN085106.D
Acq On : 05 Dec 2024 10:50
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Dec 06 00:43:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	105	0.00
2 T	Dichlorodifluoromethane	0.565	0.485	14.2	91	0.00
3 P	Chloromethane	0.656	0.524	20.1	94	0.00
4 C	Vinyl Chloride	0.589	0.551	6.5#	101	0.00
5 T	Bromomethane	0.330	0.348	-5.5	118	0.05
6 T	Chloroethane	0.397	0.348	12.3	97	0.05
7 T	Trichlorofluoromethane	1.002	0.975	2.7	107	0.04
8 T	Diethyl Ether	0.341	0.340	0.3	103	0.01
9 T	1,1,2-Trichlorotrifluoroeth	0.569	0.573	-0.7	110	0.02
10 T	Methyl Iodide	0.753	0.757	-0.5	107	0.02
11 T	Tert butyl alcohol	0.095	0.103	-8.4	121	-0.02
12 CM	1,1-Dichloroethene	0.531	0.523	1.5#	105	0.02
13 T	Acrolein	0.064	0.072	-12.5	108	0.02
14 T	Allyl chloride	0.895	0.806	9.9	96	0.02
15 T	Acrylonitrile	0.269	0.281	-4.5	113	0.00
16 T	Acetone	0.207	0.230	-11.1	120	0.00
17 T	Carbon Disulfide	1.566	1.470	6.1	105	0.02
18 T	Methyl Acetate	0.804	0.684	14.9	110	0.00
19 T	Methyl tert-butyl Ether	1.734	1.800	-3.8	107	0.00
20 T	Methylene Chloride	0.633	0.608	3.9	109	0.00
21 T	trans-1,2-Dichloroethene	0.558	0.573	-2.7	108	0.01
22 T	Diisopropyl ether	1.801	1.813	-0.7	107	0.00
23 T	Vinyl Acetate	1.242	1.334	-7.4	109	0.00
24 P	1,1-Dichloroethane	1.078	1.074	0.4	108	0.01
25 T	2-Butanone	0.339	0.363	-7.1	115	0.00
26 T	2,2-Dichloropropane	1.006	1.001	0.5	106	0.00
27 T	cis-1,2-Dichloroethene	0.673	0.686	-1.9	110	0.00
28 T	Bromochloromethane	0.407	0.401	1.5	107	0.00
29 T	Tetrahydrofuran	0.211	0.234	-10.9	115	0.00
30 C	Chloroform	1.146	1.149	-0.3#	110	0.00
31 T	Cyclohexane	0.949	0.915	3.6	109	0.00
32 T	1,1,1-Trichloroethane	1.036	1.038	-0.2	108	0.00
33 S	1,2-Dichloroethane-d4	0.712	0.680	4.5	102	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	102	0.00
35 S	Dibromofluoromethane	0.337	0.345	-2.4	104	0.00
36 T	1,1-Dichloropropene	0.457	0.483	-5.7	108	0.00
37 T	Ethyl Acetate	0.415	0.458	-10.4	116	0.00
38 T	Carbon Tetrachloride	0.527	0.576	-9.3	110	0.00
39 T	Methylcyclohexane	0.475	0.534	-12.4	108	0.00
40 TM	Benzene	1.444	1.520	-5.3	109	0.00
41 T	Methacrylonitrile	0.230	0.253	-10.0	112	0.00
42 TM	1,2-Dichloroethane	0.494	0.516	-4.5	110	0.00
43 T	Isopropyl Acetate	0.862	0.814	5.6	110	0.00
44 TM	Trichloroethene	0.336	0.369	-9.8	115	0.00
45 C	1,2-Dichloropropane	0.356	0.369	-3.7#	108	0.00
46 T	Dibromomethane	0.247	0.265	-7.3	111	0.00
47 T	Bromodichloromethane	0.524	0.566	-8.0	111	0.00
48 T	Methyl methacrylate	0.321	0.378	-17.8	118	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120524\
Data File : VN085106.D
Acq On : 05 Dec 2024 10:50
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Dec 06 00:43:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.006	0.007	-16.7	117	0.00
50 S	Toluene-d8	1.208	1.216	-0.7	100	0.00
51 T	4-Methyl-2-Pentanone	0.394	0.476	-20.8	120	0.00
52 CM	Toluene	0.855	0.958	-12.0#	110	0.00
53 T	t-1,3-Dichloropropene	0.525	0.571	-8.8	106	0.00
54 T	cis-1,3-Dichloropropene	0.557	0.620	-11.3	110	0.00
55 T	1,1,2-Trichloroethane	0.319	0.354	-11.0	113	0.00
56 T	Ethyl methacrylate	0.465	0.576	-23.9	114	0.00
57 T	1,3-Dichloropropane	0.561	0.610	-8.7	112	0.00
58 T	2-Chloroethyl Vinyl ether	0.228	0.275	-20.6	104	0.00
59 T	2-Hexanone	0.295	0.360	-22.0	118	0.00
60 T	Dibromochloromethane	0.389	0.440	-13.1	117	0.00
61 T	1,2-Dibromoethane	0.330	0.367	-11.2	114	0.00
62 S	4-Bromofluorobenzene	0.452	0.465	-2.9	102	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00
64 T	Tetrachloroethene	0.337	0.375	-11.3	120	0.00
65 PM	Chlorobenzene	1.134	1.188	-4.8	114	0.00
66 T	1,1,1,2-Tetrachloroethane	0.399	0.431	-8.0	114	0.00
67 C	Ethyl Benzene	1.840	2.094	-13.8#	113	0.00
68 T	m/p-Xylenes	0.700	0.803	-14.7	114	0.00
69 T	o-Xylene	0.666	0.766	-15.0	114	0.00
70 T	Styrene	1.108	1.330	-20.0	117	0.00
71 P	Bromoform	0.296	0.340	-14.9	115	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	106	0.00
73 T	Isopropylbenzene	3.527	3.937	-11.6	115	0.00
74 T	N-amyl acetate	1.454	1.618	-11.3	111	0.00
75 P	1,1,2,2-Tetrachloroethane	1.204	1.159	3.7	112	0.00
76 T	1,2,3-Trichloropropane	0.909	0.936	-3.0	110	0.00
77 T	Bromobenzene	0.949	0.974	-2.6	113	0.00
78 T	n-propylbenzene	4.068	4.726	-16.2	119	0.00
79 T	2-Chlorotoluene	2.716	2.867	-5.6	114	0.00
80 T	1,3,5-Trimethylbenzene	2.960	3.467	-17.1	117	0.00
81 T	trans-1,4-Dichloro-2-butene	0.412	0.440	-6.8	114	0.00
82 T	4-Chlorotoluene	2.827	2.928	-3.6	112	0.00
83 T	tert-Butylbenzene	2.547	2.951	-15.9	119	0.00
84 T	1,2,4-Trimethylbenzene	3.047	3.428	-12.5	112	0.00
85 T	sec-Butylbenzene	3.440	4.011	-16.6	116	0.00
86 T	p-Isopropyltoluene	2.840	3.368	-18.6	116	0.00
87 T	1,3-Dichlorobenzene	1.872	1.768	5.6	109	0.00
88 T	1,4-Dichlorobenzene	1.911	1.785	6.6	108	0.00
89 T	n-Butylbenzene	2.641	2.868	-8.6	114	0.00
90 T	Hexachloroethane	0.619	0.636	-2.7	111	0.00
91 T	1,2-Dichlorobenzene	1.794	1.678	6.5	106	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.233	0.229	1.7	111	0.00
93 T	1,2,4-Trichlorobenzene	0.975	0.889	8.8	105	0.00
94 T	Hexachlorobutadiene	0.450	0.431	4.2	114	0.00
95 T	Naphthalene	2.776	2.757	0.7	103	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120524\
Data File : VN085106.D
Acq On : 05 Dec 2024 10:50
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Dec 06 00:43:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
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	0.930	0.868	6.7	103	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120524\
Data File : VN085106.D
Acq On : 05 Dec 2024 10:50
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Dec 06 00:43:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	105	0.00
2 T	Dichlorodifluoromethane	50.000	42.854	14.3	91	0.00
3 P	Chloromethane	50.000	39.978	20.0	94	0.00
4 C	Vinyl Chloride	50.000	46.732	6.5#	101	0.00
5 T	Bromomethane	50.000	52.655	-5.3	118	0.05
6 T	Chloroethane	50.000	43.772	12.5	97	0.05
7 T	Trichlorofluoromethane	50.000	48.647	2.7	107	0.04
8 T	Diethyl Ether	50.000	49.889	0.2	103	0.01
9 T	1,1,2-Trichlorotrifluoroeth	50.000	50.424	-0.8	110	0.02
10 T	Methyl Iodide	50.000	50.317	-0.6	107	0.02
11 T	Tert butyl alcohol	250.000	271.065	-8.4	121	-0.02
12 CM	1,1-Dichloroethene	50.000	49.319	1.4#	105	0.02
13 T	Acrolein	250.000	281.874	-12.7	108	0.02
14 T	Allyl chloride	50.000	45.038	9.9	96	0.02
15 T	Acrylonitrile	250.000	260.771	-4.3	113	0.00
16 T	Acetone	250.000	277.185	-10.9	120	0.00
17 T	Carbon Disulfide	50.000	46.934	6.1	105	0.02
18 T	Methyl Acetate	50.000	51.655	-3.3	110	0.00
19 T	Methyl tert-butyl Ether	50.000	51.900	-3.8	107	0.00
20 T	Methylene Chloride	50.000	48.016	4.0	109	0.00
21 T	trans-1,2-Dichloroethene	50.000	51.340	-2.7	108	0.01
22 T	Diisopropyl ether	50.000	50.339	-0.7	107	0.00
23 T	Vinyl Acetate	250.000	268.517	-7.4	109	0.00
24 P	1,1-Dichloroethane	50.000	49.816	0.4	108	0.01
25 T	2-Butanone	250.000	267.424	-7.0	115	0.00
26 T	2,2-Dichloropropane	50.000	49.728	0.5	106	0.00
27 T	cis-1,2-Dichloroethene	50.000	50.930	-1.9	110	0.00
28 T	Bromochloromethane	50.000	49.289	1.4	107	0.00
29 T	Tetrahydrofuran	250.000	277.549	-11.0	115	0.00
30 C	Chloroform	50.000	50.125	-0.3#	110	0.00
31 T	Cyclohexane	50.000	48.214	3.6	109	0.00
32 T	1,1,1-Trichloroethane	50.000	50.113	-0.2	108	0.00
33 S	1,2-Dichloroethane-d4	50.000	47.718	4.6	102	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	102	0.00
35 S	Dibromofluoromethane	50.000	51.181	-2.4	104	0.00
36 T	1,1-Dichloropropene	50.000	52.841	-5.7	108	0.00
37 T	Ethyl Acetate	50.000	55.119	-10.2	116	0.00
38 T	Carbon Tetrachloride	50.000	54.625	-9.3	110	0.00
39 T	Methylcyclohexane	50.000	56.257	-12.5	108	0.00
40 TM	Benzene	50.000	52.615	-5.2	109	0.00
41 T	Methacrylonitrile	50.000	54.969	-9.9	112	0.00
42 TM	1,2-Dichloroethane	50.000	52.223	-4.4	110	0.00
43 T	Isopropyl Acetate	50.000	47.167	5.7	110	0.00
44 TM	Trichloroethene	50.000	54.949	-9.9	115	0.00
45 C	1,2-Dichloropropane	50.000	51.867	-3.7#	108	0.00
46 T	Dibromomethane	50.000	53.529	-7.1	111	0.00
47 T	Bromodichloromethane	50.000	54.037	-8.1	111	0.00
48 T	Methyl methacrylate	50.000	58.913	-17.8	118	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120524\
Data File : VN085106.D
Acq On : 05 Dec 2024 10:50
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Dec 06 00:43:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
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	1191.861	-19.2	117	0.00
50 S	Toluene-d8	50.000	50.332	-0.7	100	0.00
51 T	4-Methyl-2-Pentanone	250.000	301.988	-20.8	120	0.00
52 CM	Toluene	50.000	56.007	-12.0#	110	0.00
53 T	t-1,3-Dichloropropene	50.000	54.346	-8.7	106	0.00
54 T	cis-1,3-Dichloropropene	50.000	55.623	-11.2	110	0.00
55 T	1,1,2-Trichloroethane	50.000	55.586	-11.2	113	0.00
56 T	Ethyl methacrylate	50.000	61.862	-23.7	114	0.00
57 T	1,3-Dichloropropane	50.000	54.394	-8.8	112	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	301.608	-20.6	104	0.00
59 T	2-Hexanone	250.000	305.080	-22.0	118	0.00
60 T	Dibromochloromethane	50.000	56.549	-13.1	117	0.00
61 T	1,2-Dibromoethane	50.000	55.700	-11.4	114	0.00
62 S	4-Bromofluorobenzene	50.000	51.450	-2.9	102	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	105	0.00
64 T	Tetrachloroethene	50.000	55.611	-11.2	120	0.00
65 PM	Chlorobenzene	50.000	52.389	-4.8	114	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	54.000	-8.0	114	0.00
67 C	Ethyl Benzene	50.000	56.913	-13.8#	113	0.00
68 T	m/p-Xylenes	100.000	114.598	-14.6	114	0.00
69 T	o-Xylene	50.000	57.479	-15.0	114	0.00
70 T	Styrene	50.000	60.032	-20.1	117	0.00
71 P	Bromoform	50.000	57.318	-14.6	115	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	106	0.00
73 T	Isopropylbenzene	50.000	55.808	-11.6	115	0.00
74 T	N-amyl acetate	50.000	55.660	-11.3	111	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	48.131	3.7	112	0.00
76 T	1,2,3-Trichloropropane	50.000	51.480	-3.0	110	0.00
77 T	Bromobenzene	50.000	51.280	-2.6	113	0.00
78 T	n-propylbenzene	50.000	58.085	-16.2	119	0.00
79 T	2-Chlorotoluene	50.000	52.782	-5.6	114	0.00
80 T	1,3,5-Trimethylbenzene	50.000	58.573	-17.1	117	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	53.344	-6.7	114	0.00
82 T	4-Chlorotoluene	50.000	51.778	-3.6	112	0.00
83 T	tert-Butylbenzene	50.000	57.933	-15.9	119	0.00
84 T	1,2,4-Trimethylbenzene	50.000	56.249	-12.5	112	0.00
85 T	sec-Butylbenzene	50.000	58.301	-16.6	116	0.00
86 T	p-Isopropyltoluene	50.000	59.300	-18.6	116	0.00
87 T	1,3-Dichlorobenzene	50.000	47.216	5.6	109	0.00
88 T	1,4-Dichlorobenzene	50.000	46.704	6.6	108	0.00
89 T	n-Butylbenzene	50.000	54.292	-8.6	114	0.00
90 T	Hexachloroethane	50.000	51.391	-2.8	111	0.00
91 T	1,2-Dichlorobenzene	50.000	46.752	6.5	106	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	49.258	1.5	111	0.00
93 T	1,2,4-Trichlorobenzene	50.000	45.592	8.8	105	0.00
94 T	Hexachlorobutadiene	50.000	47.904	4.2	114	0.00
95 T	Naphthalene	50.000	49.662	0.7	103	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120524\
Data File : VN085106.D
Acq On : 05 Dec 2024 10:50
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Dec 06 00:43:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	46.644	6.7	103	0.00

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



QC SAMPLE DATA

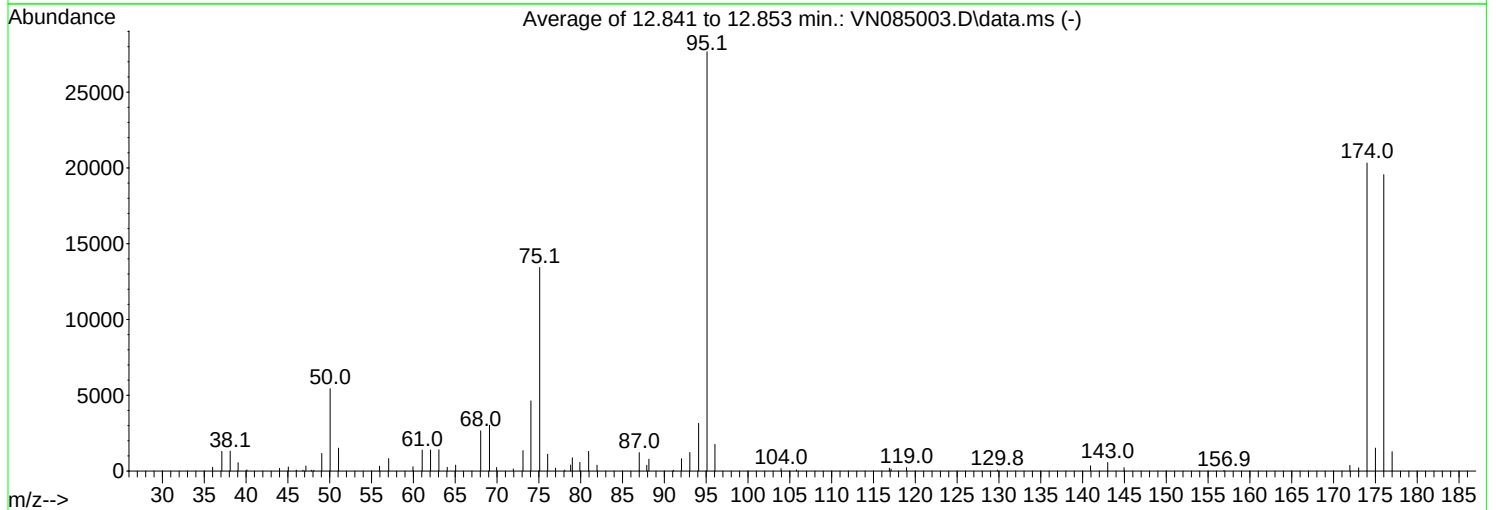
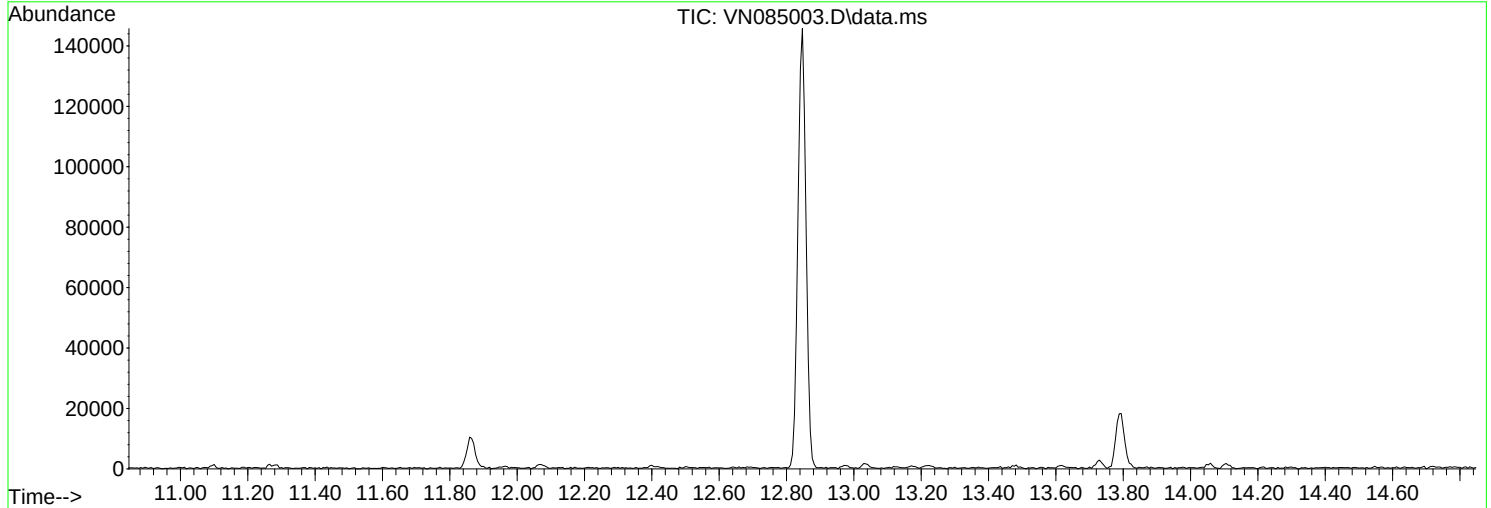
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085003.D
Acq On : 22 Nov 2024 09:29
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Title : SW846 8260
Last Update : Sat Nov 23 02:54:10 2024



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

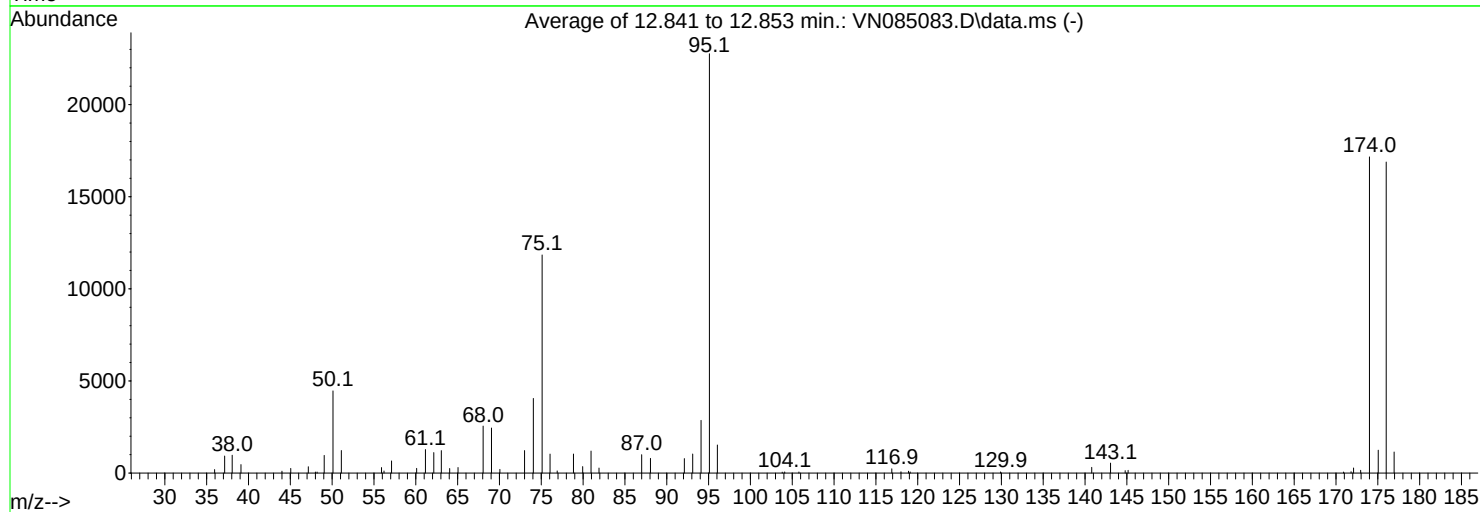
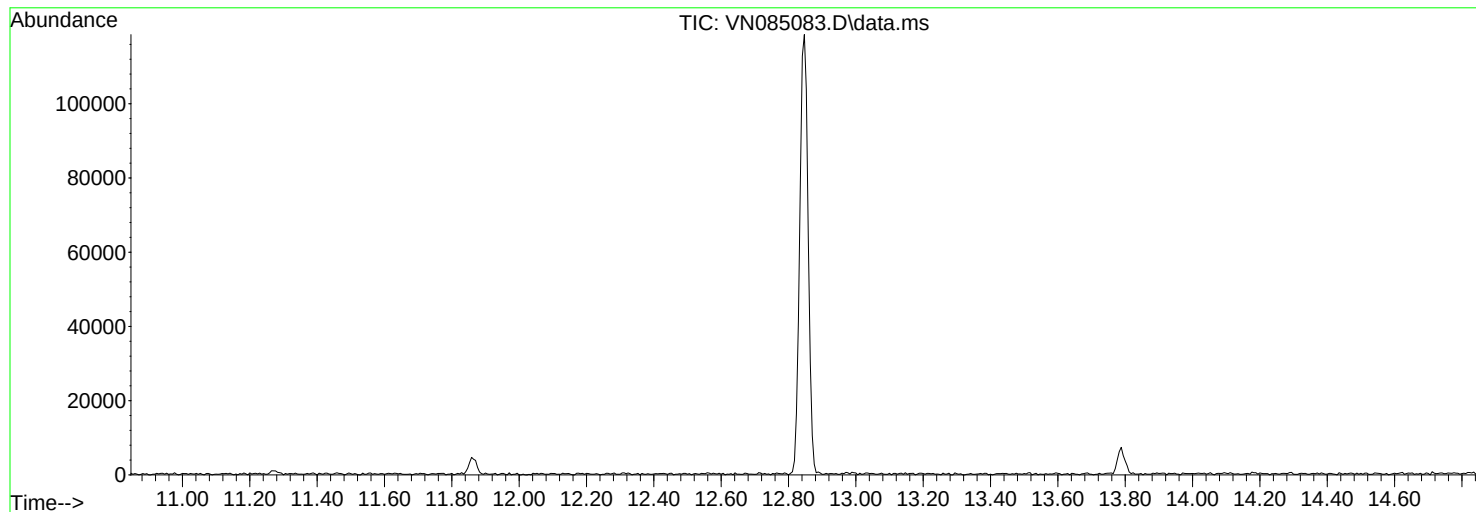
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.7	5439	PASS
75	95	30	60	48.5	13431	PASS
95	95	100	100	100.0	27667	PASS
96	95	5	9	6.4	1766	PASS
173	174	0.00	2	1.1	216	PASS
174	95	50	100	73.5	20325	PASS
175	174	5	9	7.5	1518	PASS
176	174	95	101	96.2	19555	PASS
177	176	5	9	6.6	1282	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120424\
Data File : VN085083.D
Acq On : 04 Dec 2024 09:00
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\82N112224W.M
Title : SW846 8260
Last Update : Sat Nov 23 02:54:10 2024



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

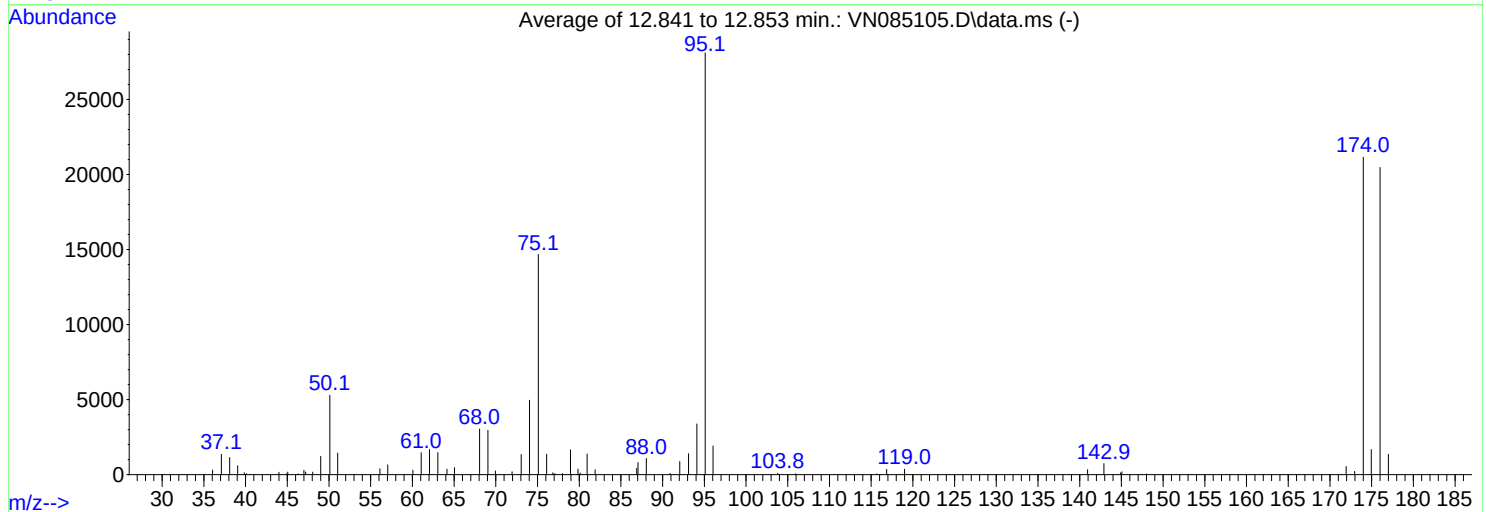
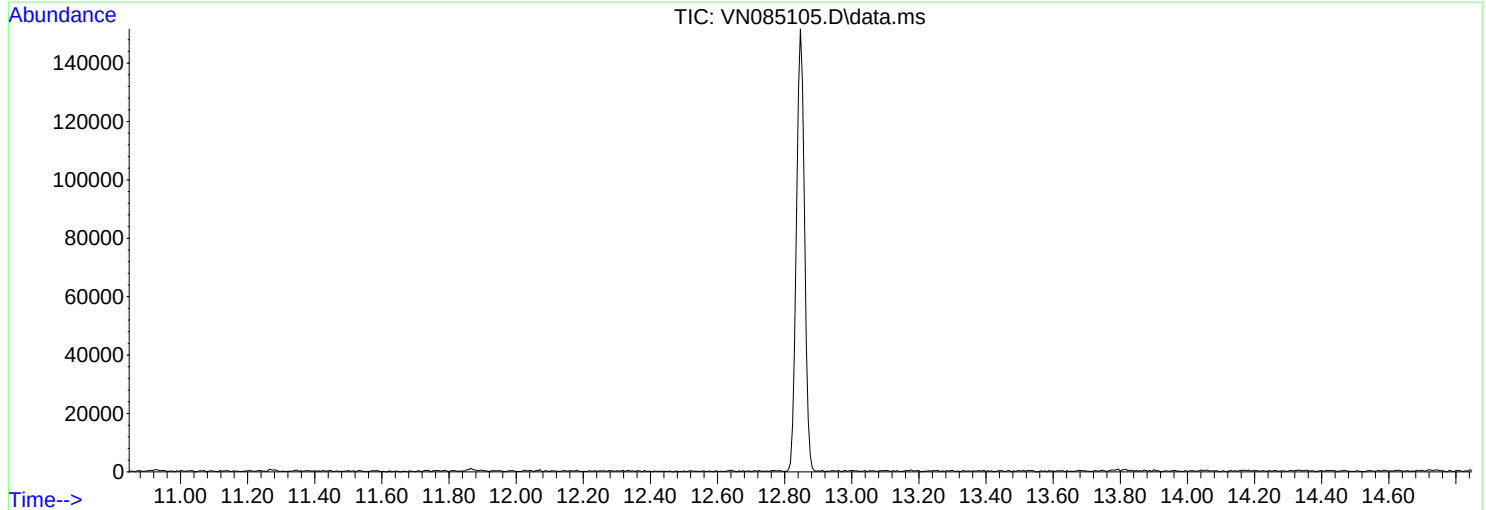
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.6	4460	PASS
75	95	30	60	52.0	11839	PASS
95	95	100	100	100.0	22763	PASS
96	95	5	9	6.7	1525	PASS
173	174	0.00	2	0.9	152	PASS
174	95	50	100	75.4	17162	PASS
175	174	5	9	7.2	1243	PASS
176	174	95	101	98.4	16884	PASS
177	176	5	9	6.8	1145	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120524\
Data File : VN085105.D
Acq On : 05 Dec 2024 08:29
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\82N112224W.M
Title : SW846 8260
Last Update : Sat Nov 23 02:54:10 2024



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	18.8	5290	PASS
75	95	30	60	52.2	14673	PASS
95	95	100	100	100.0	28109	PASS
96	95	5	9	6.8	1904	PASS
173	174	0.00	2	1.0	218	PASS
174	95	50	100	75.2	21152	PASS
175	174	5	9	7.9	1679	PASS
176	174	95	101	96.8	20475	PASS
177	176	5	9	6.6	1354	PASS

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 890	Date Received:	
Client Sample ID:	VN1204WBL01	SDG No.:	P5088
Lab Sample ID:	VN1204WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085086.D	1		12/04/24 11:50	VN120424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	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
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
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	0.39	U	0.39	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.3		70 (74) - 130 (125)	103%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	47.3		70 (86) - 130 (113)	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.2		70 (77) - 130 (121)	86%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	155000	8.224			
540-36-3	1,4-Difluorobenzene	272000	9.1			
3114-55-4	Chlorobenzene-d5	232000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	89400	13.788			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120424\
Data File : VN085086.D
Acq On : 04 Dec 2024 11:50
Operator : JC\MD
Sample : VN1204WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1204WBL01

Quant Time: Dec 04 22:02:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	155240	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	271880	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	231756	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	89427	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	113375	51.271	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 102.540%		
35) Dibromofluoromethane	8.165	113	93450	50.969	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 101.940%		
50) Toluene-d8	10.565	98	310609	47.272	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 94.540%		
62) 4-Bromofluorobenzene	12.847	95	106097	43.177	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 86.360%		

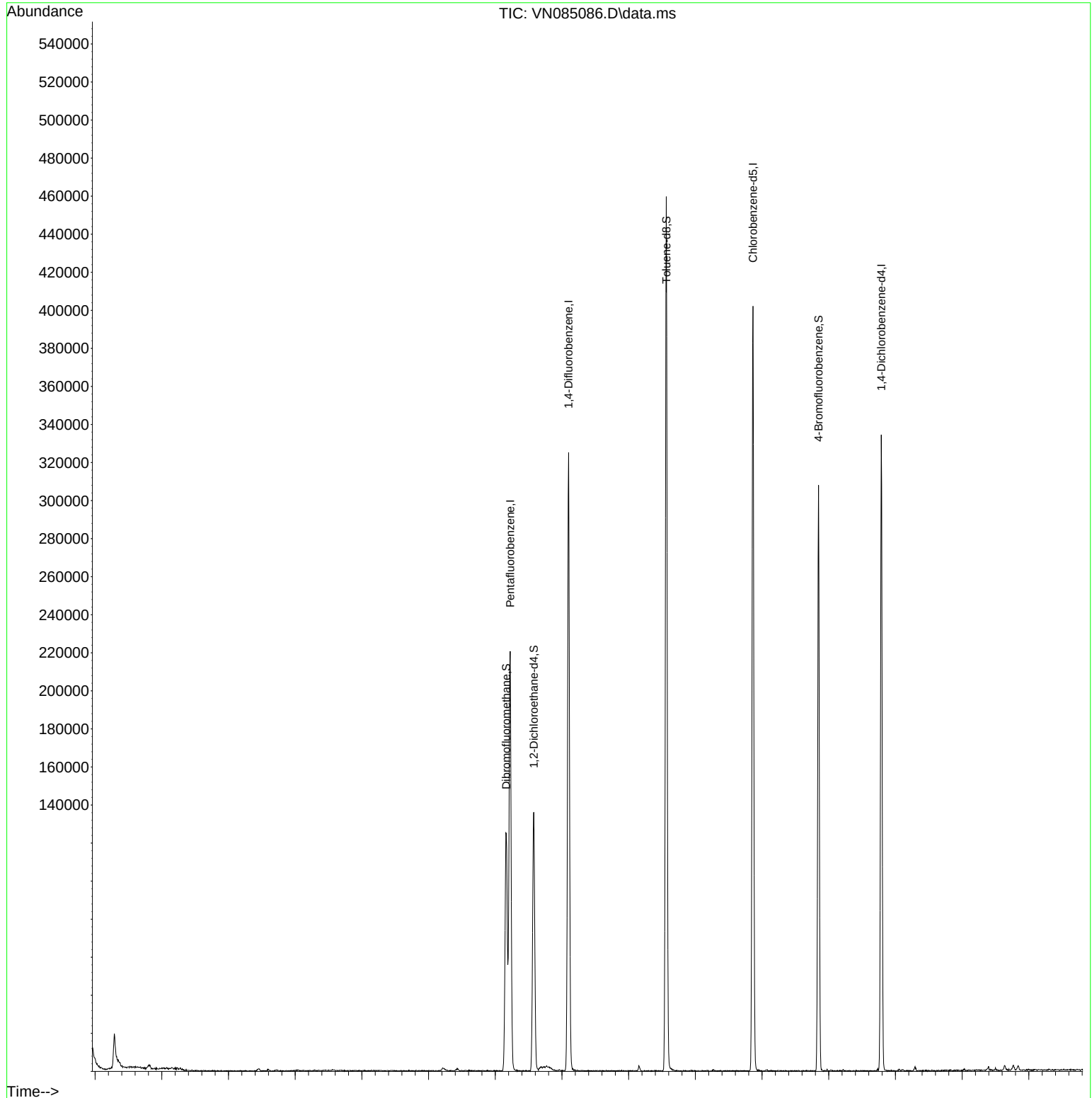
Target Compounds Qvalue

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

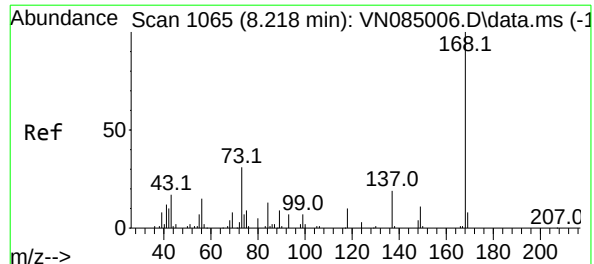
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Data File : VN085086.D
Acq On : 04 Dec 2024 11:50
Operator : JC\MD
Sample : VN1204WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1204WBL01

Quant Time: Dec 04 22:02:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration



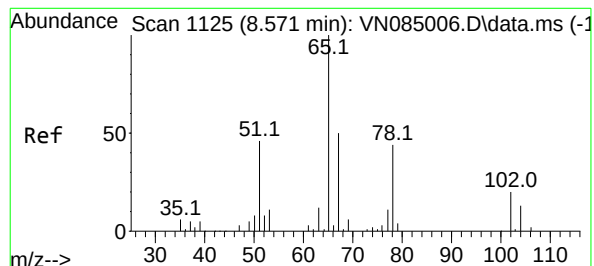
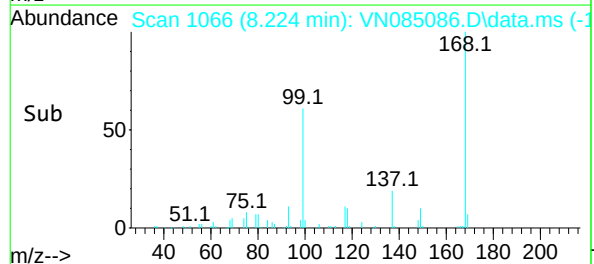
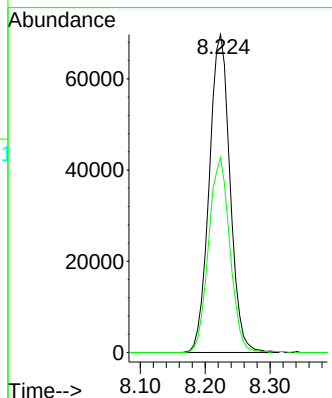
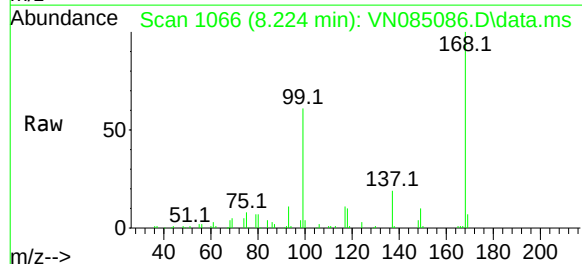
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#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085086.D
Acq: 04 Dec 2024 11:50

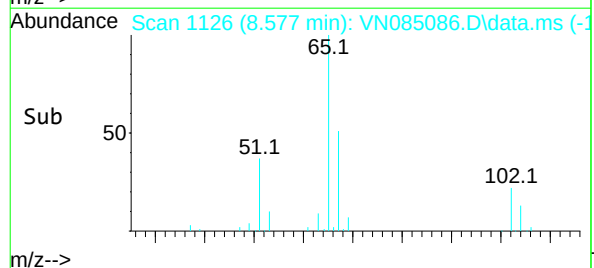
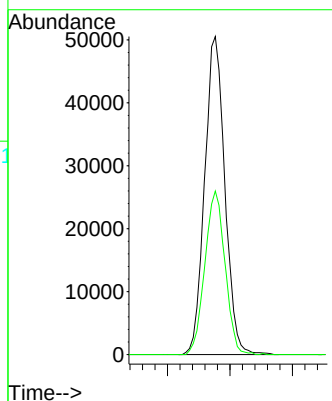
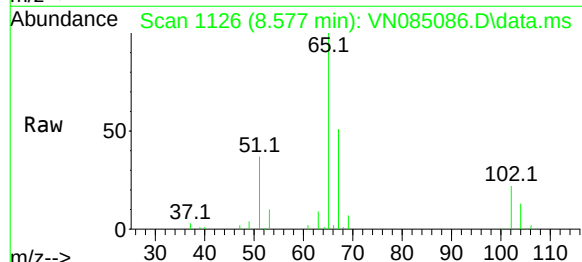
Instrument :
MSVOA_N
ClientSampleId :
VN1204WBL01

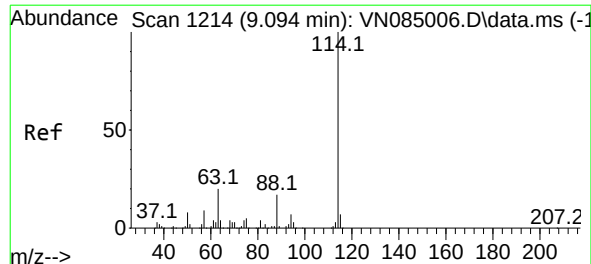
Tgt Ion: 168 Resp: 155240
Ion Ratio Lower Upper
168 100
99 61.3 51.2 76.8



#33
1,2-Dichloroethane-d4
Concen: 51.271 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085086.D
Acq: 04 Dec 2024 11:50

Tgt Ion: 65 Resp: 113375
Ion Ratio Lower Upper
65 100
67 51.3 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 12

Delta R.T. 0.006 min

Lab File: VN085086.D

Acq: 04 Dec 2024 11:50

Instrument :

MSVOA_N

ClientSampleId :

VN1204WBL01

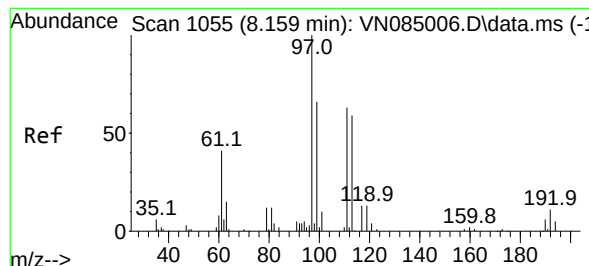
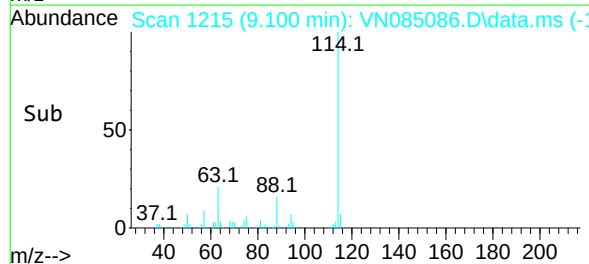
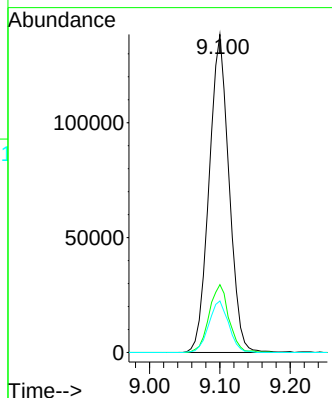
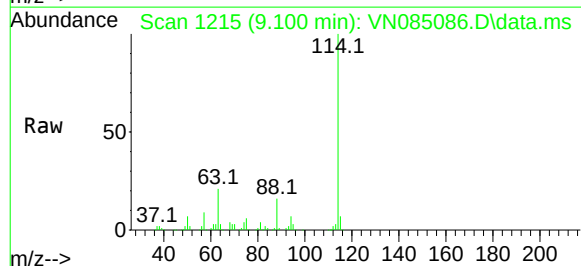
Tgt Ion:114 Resp: 271880

Ion Ratio Lower Upper

114 100

63 21.3 0.0 41.0

88 16.2 0.0 34.8



#35

Dibromofluoromethane

Concen: 50.969 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085086.D

Acq: 04 Dec 2024 11:50

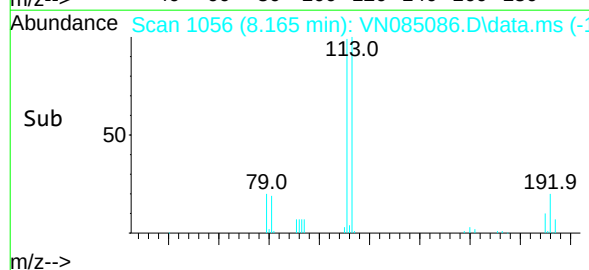
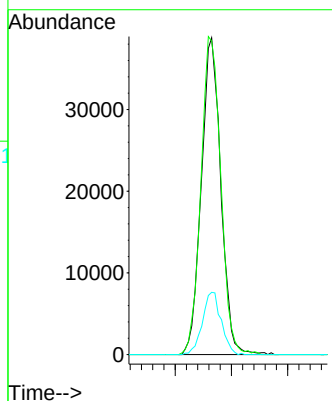
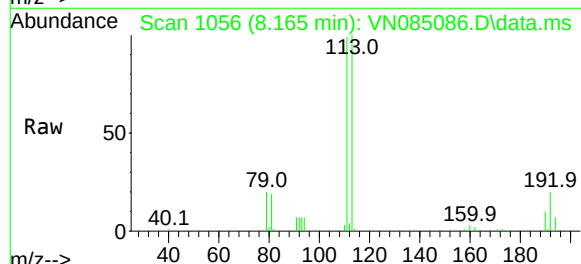
Tgt Ion:113 Resp: 93450

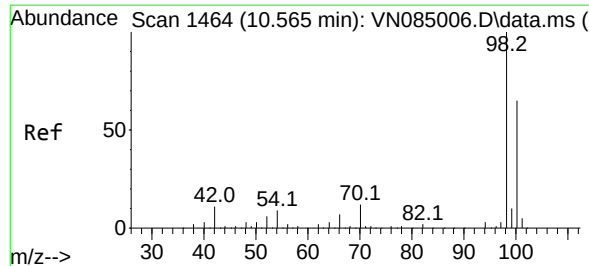
Ion Ratio Lower Upper

113 100

111 102.3 82.0 123.0

192 18.9 14.8 22.2





#50

Toluene-d8

Concen: 47.272 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085086.D

Acq: 04 Dec 2024 11:50

Instrument :

MSVOA_N

ClientSampleId :

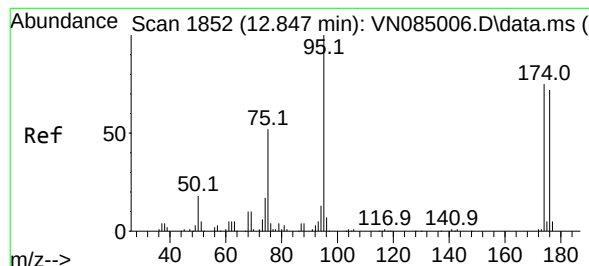
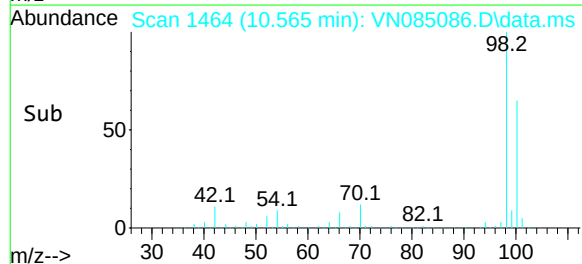
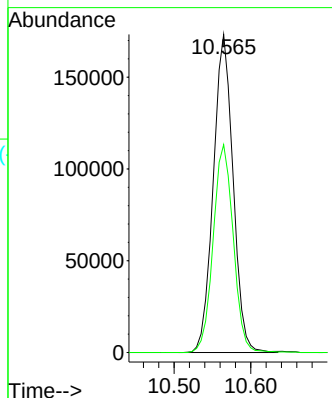
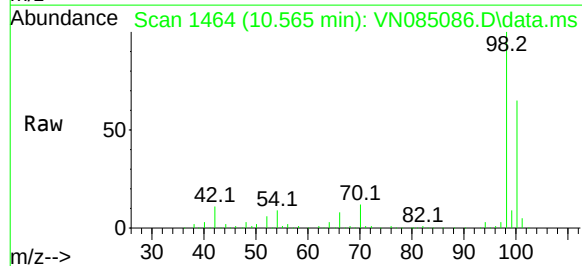
VN1204WBL01

Tgt Ion: 98 Resp: 310609

Ion Ratio Lower Upper

98 100

100 66.4 52.5 78.7



#62

4-Bromofluorobenzene

Concen: 43.177 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN085086.D

Acq: 04 Dec 2024 11:50

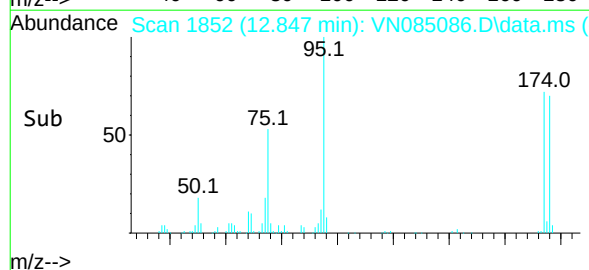
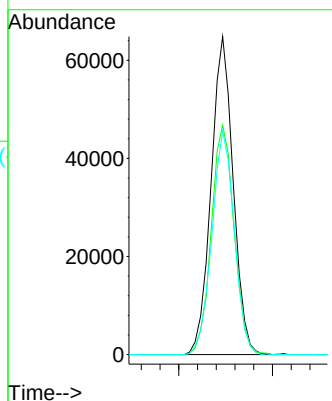
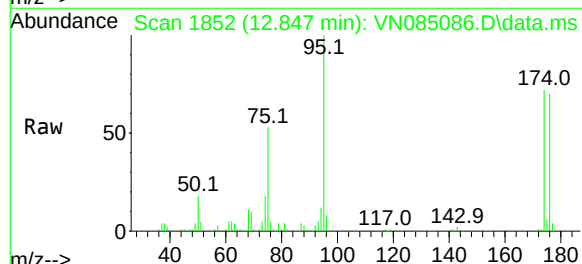
Tgt Ion: 95 Resp: 106097

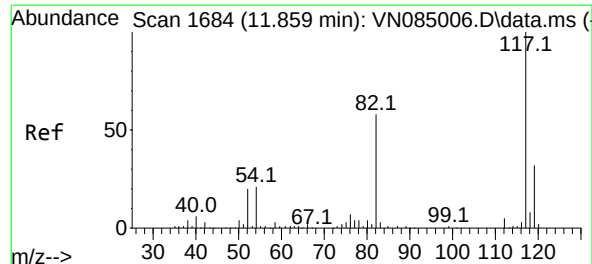
Ion Ratio Lower Upper

95 100

174 74.3 0.0 146.6

176 71.8 0.0 141.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1684

Delta R.T. 0.006 min

Lab File: VN085086.D

Acq: 04 Dec 2024 11:50

Instrument :

MSVOA_N

ClientSampleId :

VN1204WBL01

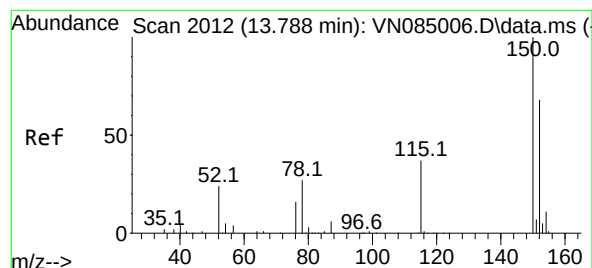
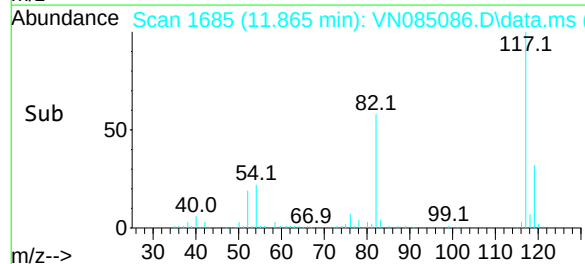
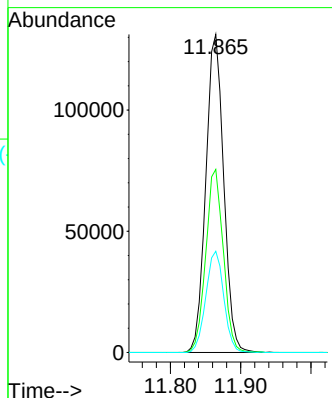
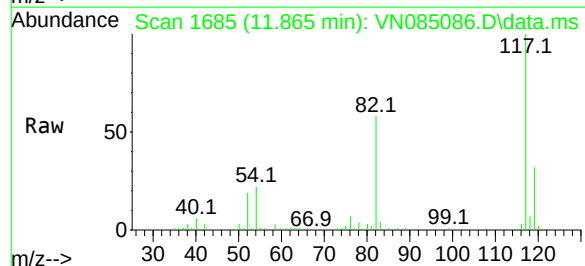
Tgt Ion:117 Resp: 231756

Ion Ratio Lower Upper

117 100

82 57.6 46.0 69.0

119 31.8 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN085086.D

Acq: 04 Dec 2024 11:50

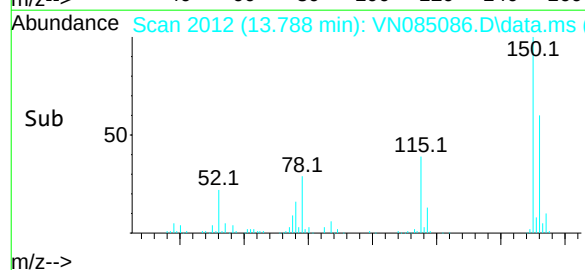
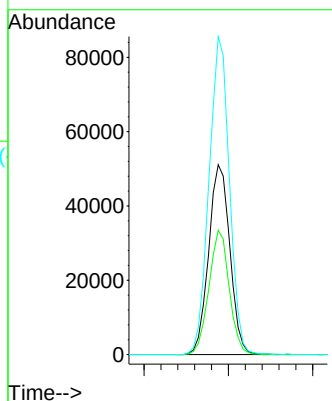
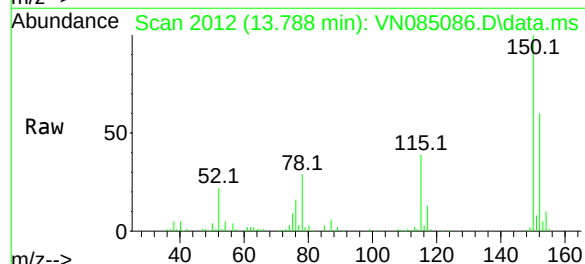
Tgt Ion:152 Resp: 89427

Ion Ratio Lower Upper

152 100

115 62.5 31.7 95.1

150 160.7 0.0 351.4



Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 890	Date Received:	
Client Sample ID:	VN1205WBL01	SDG No.:	P5088
Lab Sample ID:	VN1205WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085108.D	1		12/05/24 11:49	VN120524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	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
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
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	0.39	U	0.39	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.7		70 (74) - 130 (125)	103%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		70 (75) - 130 (124)	101%	SPK: 50
2037-26-5	Toluene-d8	48.3		70 (86) - 130 (113)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.0		70 (77) - 130 (121)	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	153000	8.224			
540-36-3	1,4-Difluorobenzene	270000	9.1			
3114-55-4	Chlorobenzene-d5	233000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	93700	13.788			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120524\
Data File : VN085108.D
Acq On : 05 Dec 2024 11:49
Operator : JC\MD
Sample : VN1205WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBL01

Quant Time: Dec 06 00:44:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	153003	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	269925	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	233275	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	93689	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	112666	51.695	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 103.400%		
35) Dibromofluoromethane	8.165	113	91991	50.537	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 101.080%		
50) Toluene-d8	10.565	98	315063	48.297	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 96.600%		
62) 4-Bromofluorobenzene	12.847	95	107392	44.021	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 88.040%		

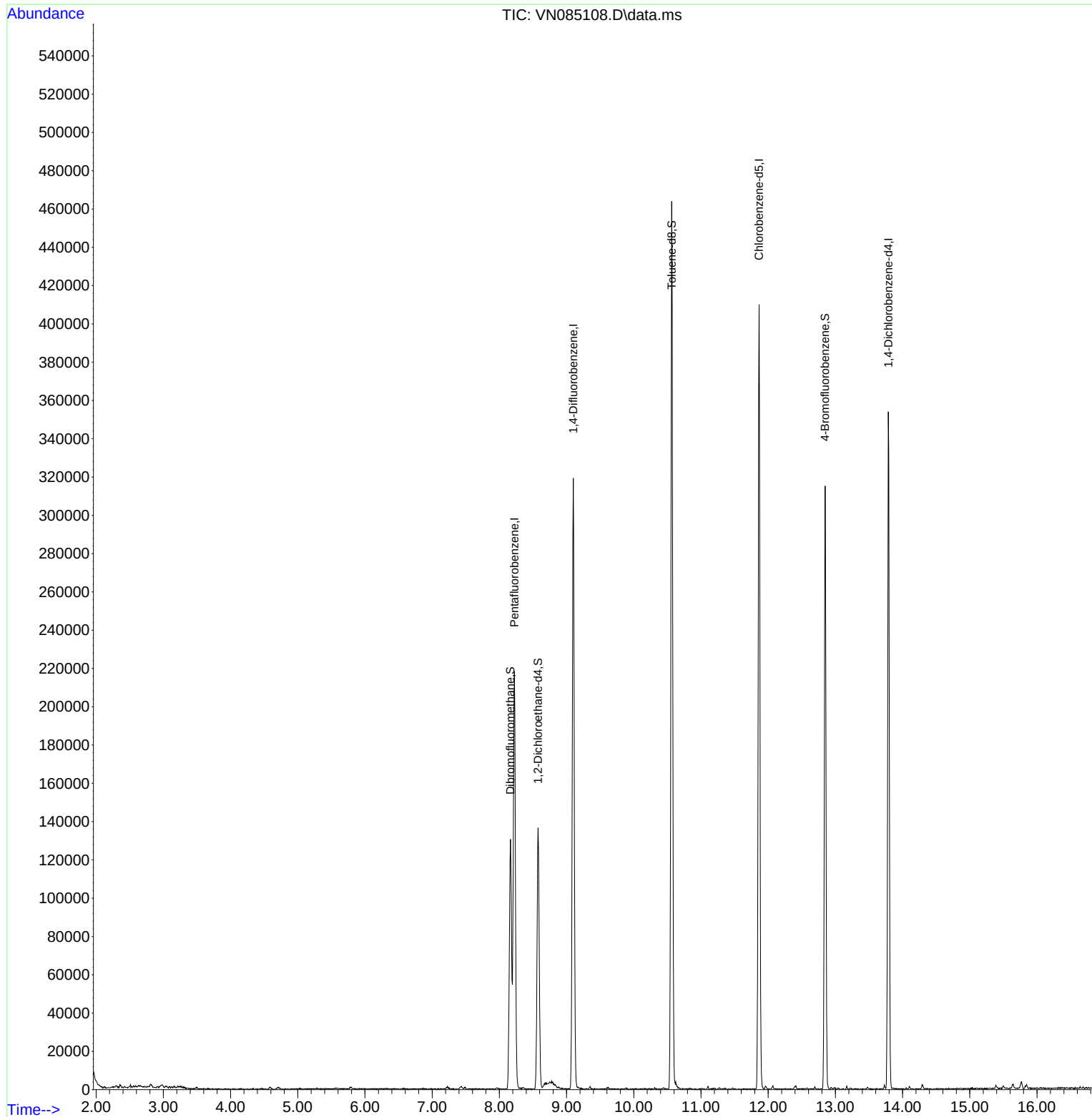
Target Compounds	Qvalue

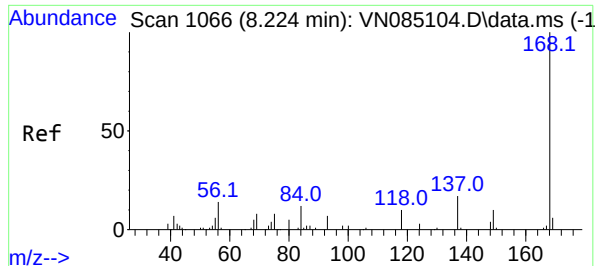
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120524\
Data File : VN085108.D
Acq On : 05 Dec 2024 11:49
Operator : JC\MD
Sample : VN1205WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBL01

Quant Time: Dec 06 00:44:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

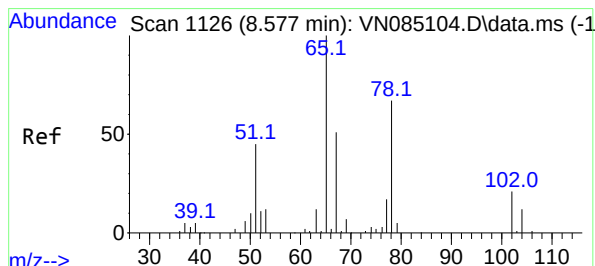
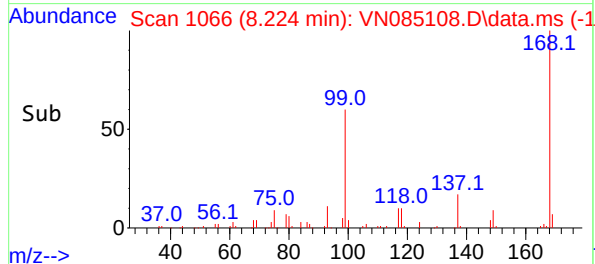
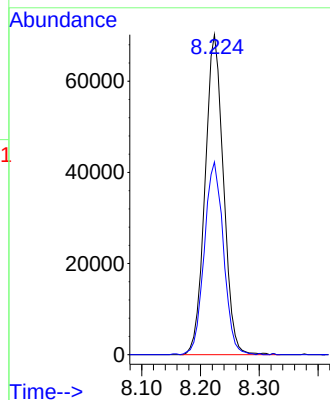
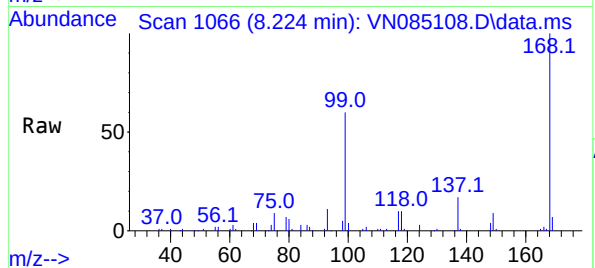




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085108.D
Acq: 05 Dec 2024 11:49

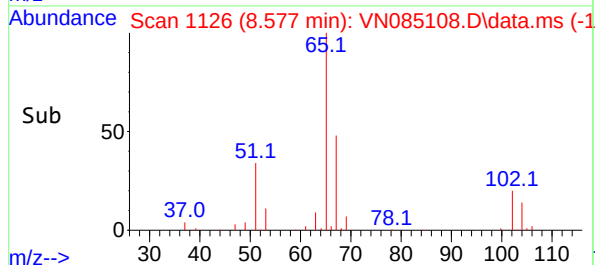
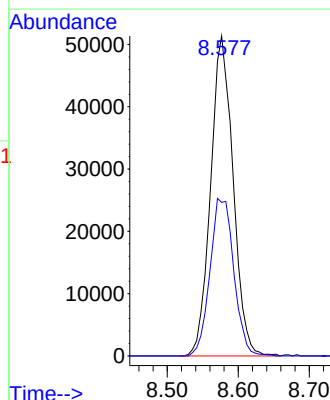
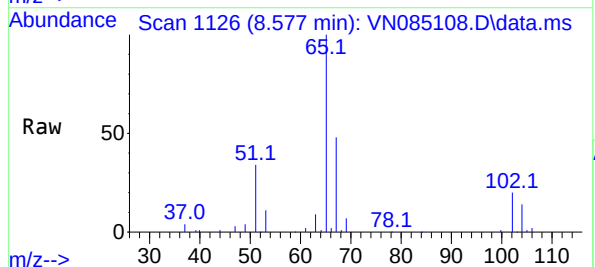
Instrument :
MSVOA_N
ClientSampleId :
VN1205WBL01

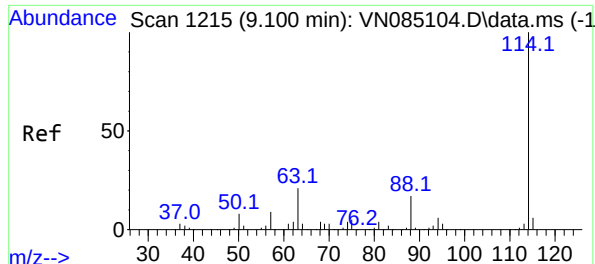
Tgt Ion:168 Resp: 153003
Ion Ratio Lower Upper
168 100
99 60.2 51.2 76.8



#33
1,2-Dichloroethane-d4
Concen: 51.695 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085108.D
Acq: 05 Dec 2024 11:49

Tgt Ion: 65 Resp: 112666
Ion Ratio Lower Upper
65 100
67 52.2 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085108.D

Acq: 05 Dec 2024 11:49

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBL01

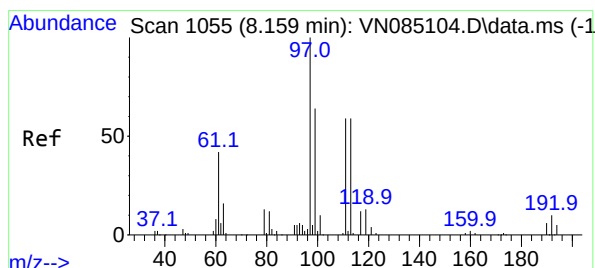
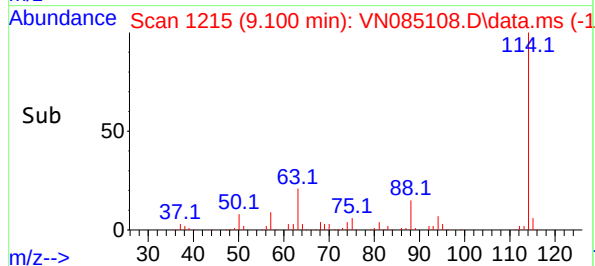
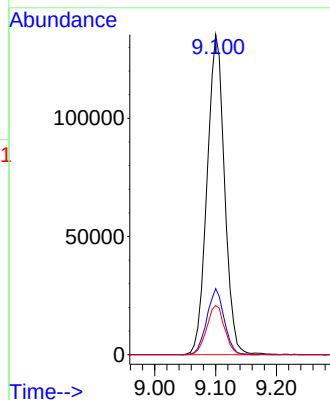
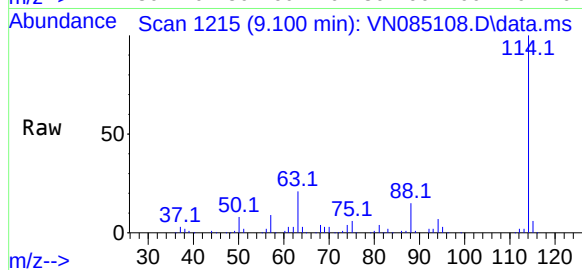
Tgt Ion:114 Resp: 269925

Ion Ratio Lower Upper

114 100

63 20.7 0.0 41.0

88 15.4 0.0 34.8



#35

Dibromofluoromethane

Concen: 50.537 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085108.D

Acq: 05 Dec 2024 11:49

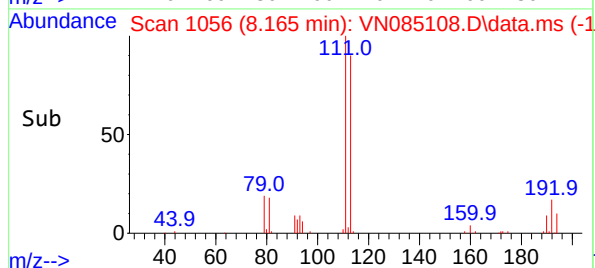
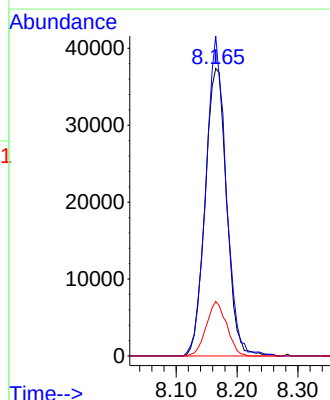
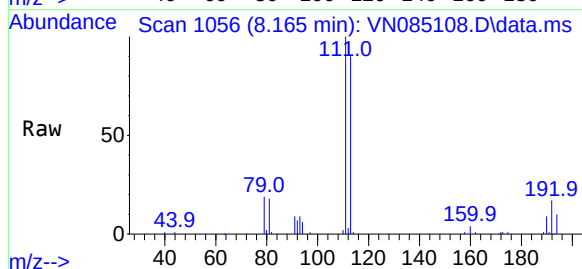
Tgt Ion:113 Resp: 91991

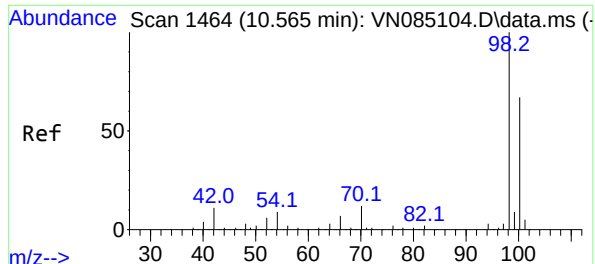
Ion Ratio Lower Upper

113 100

111 104.2 82.0 123.0

192 17.9 14.8 22.2





#50

Toluene-d8

Concen: 48.297 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085108.D

Acq: 05 Dec 2024 11:49

Instrument :

MSVOA_N

ClientSampleId :

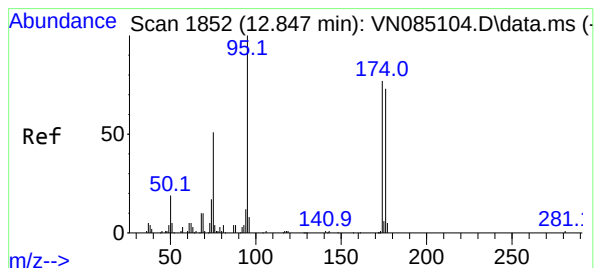
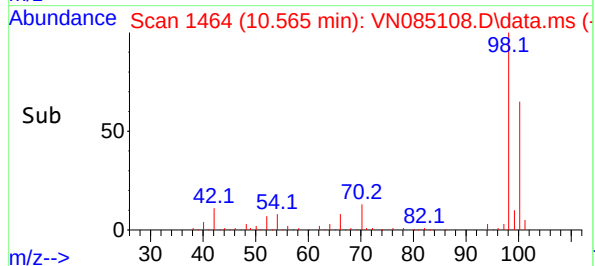
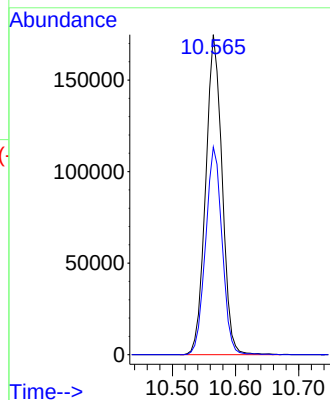
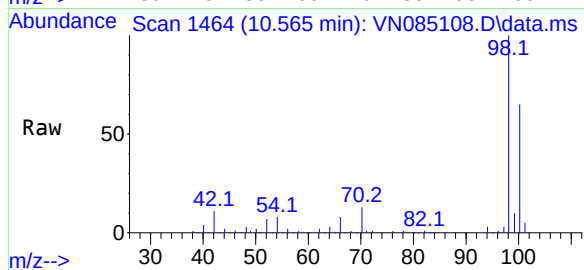
VN1205WBL01

Tgt Ion: 98 Resp: 315063

Ion Ratio Lower Upper

98 100

100 65.3 52.5 78.7



#62

4-Bromofluorobenzene

Concen: 44.021 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN085108.D

Acq: 05 Dec 2024 11:49

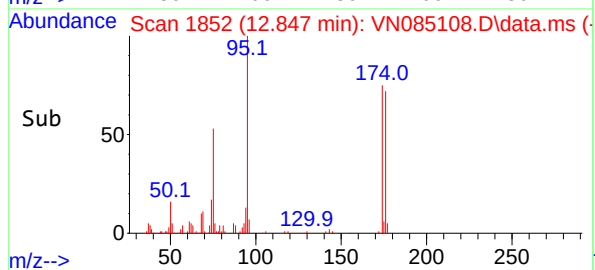
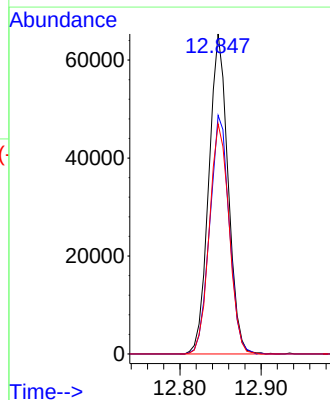
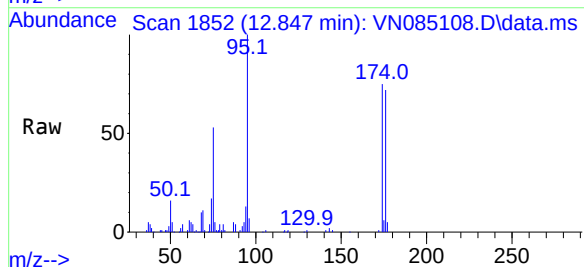
Tgt Ion: 95 Resp: 107392

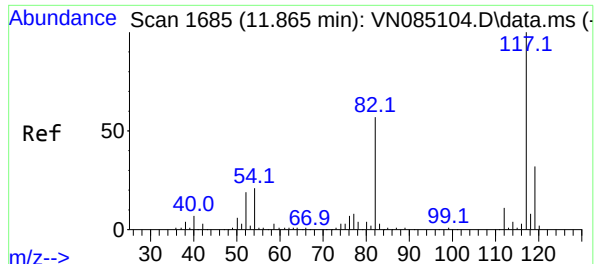
Ion Ratio Lower Upper

95 100

174 75.3 0.0 146.6

176 73.6 0.0 141.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN085108.D

Acq: 05 Dec 2024 11:49

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBL01

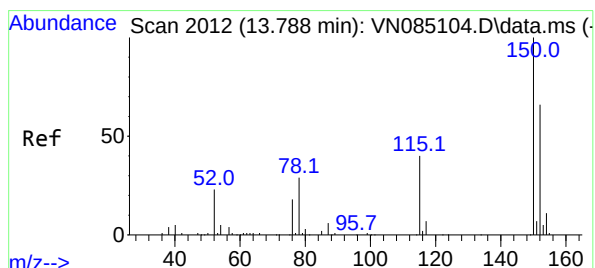
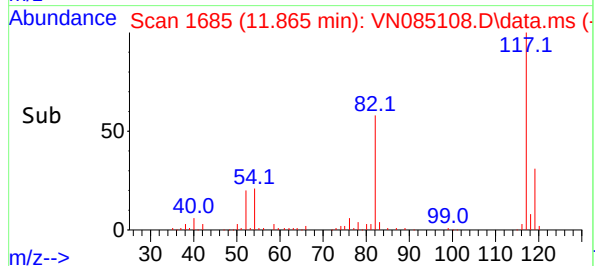
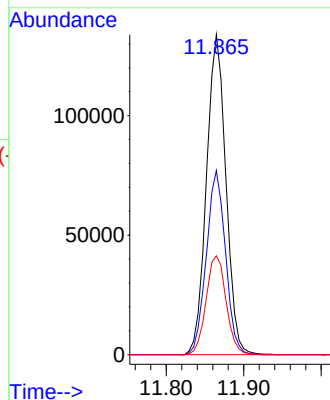
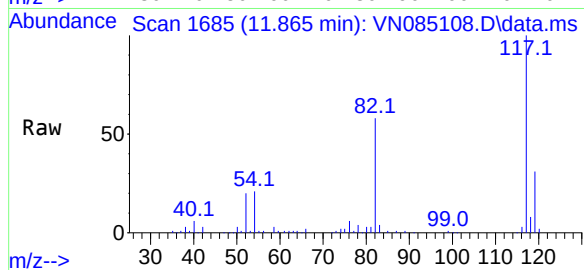
Tgt Ion:117 Resp: 233275

Ion Ratio Lower Upper

117 100

82 57.6 46.0 69.0

119 30.9 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN085108.D

Acq: 05 Dec 2024 11:49

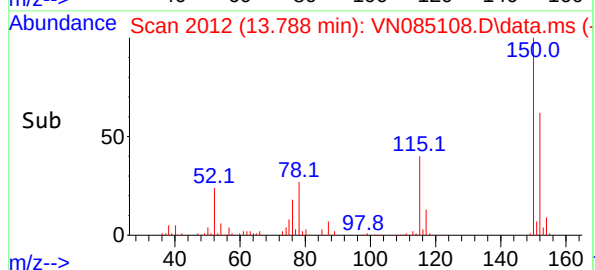
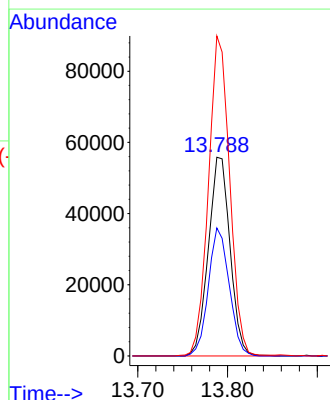
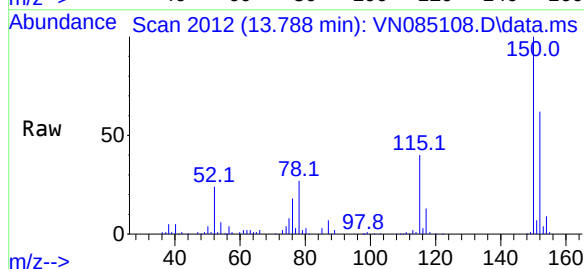
Tgt Ion:152 Resp: 93689

Ion Ratio Lower Upper

152 100

115 62.0 31.7 95.1

150 157.7 0.0 351.4



Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 890	Date Received:	
Client Sample ID:	VN1204WBS01	SDG No.:	P5088
Lab Sample ID:	VN1204WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085087.D	1		12/04/24 12:14	VN120424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	18.8		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	20.4		0.26	1.00	ug/L
75-09-2	Methylene Chloride	19.2		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	20.2		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.1		0.23	1.00	ug/L
56-23-5	Carbon Tetrachloride	22.4		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.2		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.4		0.19	1.00	ug/L
79-01-6	Trichloroethene	21.2		0.32	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	22.2		0.21	1.00	ug/L
127-18-4	Tetrachloroethene	21.7		0.25	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	20.9		0.39	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.3		70 (74) - 130 (125)	97%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	49.6		70 (86) - 130 (113)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.1		70 (77) - 130 (121)	96%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	163000	8.224			
540-36-3	1,4-Difluorobenzene	267000	9.1			
3114-55-4	Chlorobenzene-d5	232000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	108000	13.788			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120424\
Data File : VN085087.D
Acq On : 04 Dec 2024 12:14
Operator : JC\MD
Sample : VN1204WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1204WBS01

Manual Integrations
APPROVED

Reviewed By : John Carlone 12/05/2024
Supervised By : Mahesh Dadoda 12/05/2024

Quant Time: Dec 04 22:02:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	163110	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	267469	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	232064	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	108141	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	112274	48.323	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	96.640%
35) Dibromofluoromethane	8.165	113	91738	50.860	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.720%
50) Toluene-d8	10.565	98	320536	49.587	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	99.180%
62) 4-Bromofluorobenzene	12.847	95	116365	48.137	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	96.280%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	30354	16.458	ug/l	96
3) Chloromethane	2.359	50	35354	16.527	ug/l	100
4) Vinyl Chloride	2.512	62	36169	18.814	ug/l	96
5) Bromomethane	2.959	94	21068	19.553	ug/l	99
6) Chloroethane	3.124	64	23907	18.450	ug/l	99
7) Trichlorofluoromethane	3.501	101	66331	20.283	ug/l	98
8) Diethyl Ether	3.959	74	22955	20.624	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	37143	20.026	ug/l	99
10) Methyl Iodide	4.589	142	46869	19.090	ug/l	95
11) Tert butyl alcohol	5.506	59	30831	99.302	ug/l	100
12) 1,1-Dichloroethene	4.342	96	35340	20.413	ug/l	96
13) Acrolein	4.177	56	21093	101.814	ug/l	94
14) Allyl chloride	5.018	41	50775	17.398	ug/l	93
15) Acrylonitrile	5.718	53	90013	102.403	ug/l	98
16) Acetone	4.430	43	74782	110.517	ug/l	98
17) Carbon Disulfide	4.712	76	95638	18.716	ug/l	97
18) Methyl Acetate	5.024	43	44923	20.085	ug/l	99
19) Methyl tert-butyl Ether	5.795	73	115767	20.466	ug/l	98
20) Methylene Chloride	5.271	84	39580	19.169	ug/l	96
21) trans-1,2-Dichloroethene	5.777	96	36741	20.167	ug/l	91
22) Diisopropyl ether	6.671	45	118783	20.222	ug/l	98
23) Vinyl Acetate	6.600	43	420644	103.803	ug/l	100
24) 1,1-Dichloroethane	6.565	63	70683	20.108	ug/l	97
25) 2-Butanone	7.477	43	114879	103.842	ug/l	98
26) 2,2-Dichloropropane	7.489	77	64562	19.670	ug/l	98
27) cis-1,2-Dichloroethene	7.489	96	44327	20.182	ug/l	99
28) Bromochloromethane	7.812	49	27103	20.426	ug/l	97
29) Tetrahydrofuran	7.836	42	74365	108.095	ug/l	99
30) Chloroform	7.965	83	76257	20.394	ug/l	95
31) Cyclohexane	8.253	56	62451	20.179	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	68895	20.390	ug/l	99
36) 1,1-Dichloropropene	8.365	75	51446	21.057	ug/l	99
37) Ethyl Acetate	7.559	43	49646	22.352	ug/l	97
38) Carbon Tetrachloride	8.359	117	63190	22.407	ug/l	97
39) Methylcyclohexane	9.594	83	53461	21.058	ug/l	99
40) Benzene	8.606	78	164005	21.224	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120424\
Data File : VN085087.D
Acq On : 04 Dec 2024 12:14
Operator : JC\MD
Sample : VN1204WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1204WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024

Quant Time: Dec 04 22:02:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	24938	20.279	ug/l	98
42) 1,2-Dichloroethane	8.671	62	56049	21.202	ug/l	98
43) Isopropyl Acetate	8.683	43	82915	17.972	ug/l	97
44) Trichloroethene	9.353	130	37985	21.153	ug/l	85
45) 1,2-Dichloropropane	9.618	63	38773	20.372	ug/l	98
46) Dibromomethane	9.712	93	28709	21.709	ug/l	99
47) Bromodichloromethane	9.883	83	59414	21.198	ug/l	100
48) Methyl methacrylate	9.677	41	37064	21.589	ug/l	96
49) 1,4-Dioxane	9.694	88	12930	434.295	ug/l #	89
51) 4-Methyl-2-Pentanone	10.441	43	243561	115.583	ug/l	99
52) Toluene	10.630	92	101467	22.181	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	58073	20.666	ug/l	95
54) cis-1,3-Dichloropropene	10.306	75	64329	21.579	ug/l	97
55) 1,1,2-Trichloroethane	11.012	97	37778	22.172	ug/l	99
56) Ethyl methacrylate	10.871	69	57482	23.087	ug/l	99
57) 1,3-Dichloropropane	11.159	76	64936	21.654	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	123811	101.375	ug/l	100
59) 2-Hexanone	11.194	43	180056	114.247	ug/l	97
60) Dibromochloromethane	11.353	129	44047	21.152	ug/l	99
61) 1,2-Dibromoethane	11.465	107	38263	21.699	ug/l	98
64) Tetrachloroethene	11.100	164	33872	21.661	ug/l	95
65) Chlorobenzene	11.888	112	108472	20.611	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.959	131	38897	20.991	ug/l	99
67) Ethyl Benzene	11.959	91	181732	21.284	ug/l	97
68) m/p-Xylenes	12.071	106	139256	42.838	ug/l	98
69) o-Xylene	12.394	106	66548	21.521	ug/l	98
70) Styrene	12.406	104	112085	21.796	ug/l	98
71) Bromoform	12.576	173	29172	21.209	ug/l #	95
73) Isopropylbenzene	12.694	105	172034	22.550	ug/l	100
74) N-amyl acetate	12.494	43	69690	22.168	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	53708	20.616	ug/l	98
76) 1,2,3-Trichloropropane	12.988	75	41030m	20.859	ug/l	
77) Bromobenzene	12.976	156	44314	21.585	ug/l	99
78) n-propylbenzene	13.029	91	197862	22.486	ug/l	100
79) 2-Chlorotoluene	13.123	91	126114	21.470	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	147777	23.084	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	17940	20.134	ug/l	89
82) 4-Chlorotoluene	13.218	91	124835	20.415	ug/l	100
83) tert-Butylbenzene	13.435	119	122660	22.269	ug/l	99
84) 1,2,4-Trimethylbenzene	13.476	105	148458	22.529	ug/l	100
85) sec-Butylbenzene	13.612	105	165944	22.302	ug/l	99
86) p-Isopropyltoluene	13.723	119	140473	22.870	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	76671	18.934	ug/l	99
88) 1,4-Dichlorobenzene	13.806	146	75413	18.249	ug/l	97
89) n-Butylbenzene	14.053	91	110694	19.379	ug/l	98
90) Hexachloroethane	14.335	117	28046	20.948	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	73798	19.019	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	10241	20.329	ug/l	97
93) 1,2,4-Trichlorobenzene	15.394	180	35878	17.019	ug/l	99
94) Hexachlorobutadiene	15.500	225	17546	18.035	ug/l	94
95) Naphthalene	15.641	128	104286	17.369	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	36415	18.104	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120424\
Data File : VN085087.D
Acq On : 04 Dec 2024 12:14
Operator : JC\MD
Sample : VN1204WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1204WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024

Quant Time: Dec 04 22:02:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

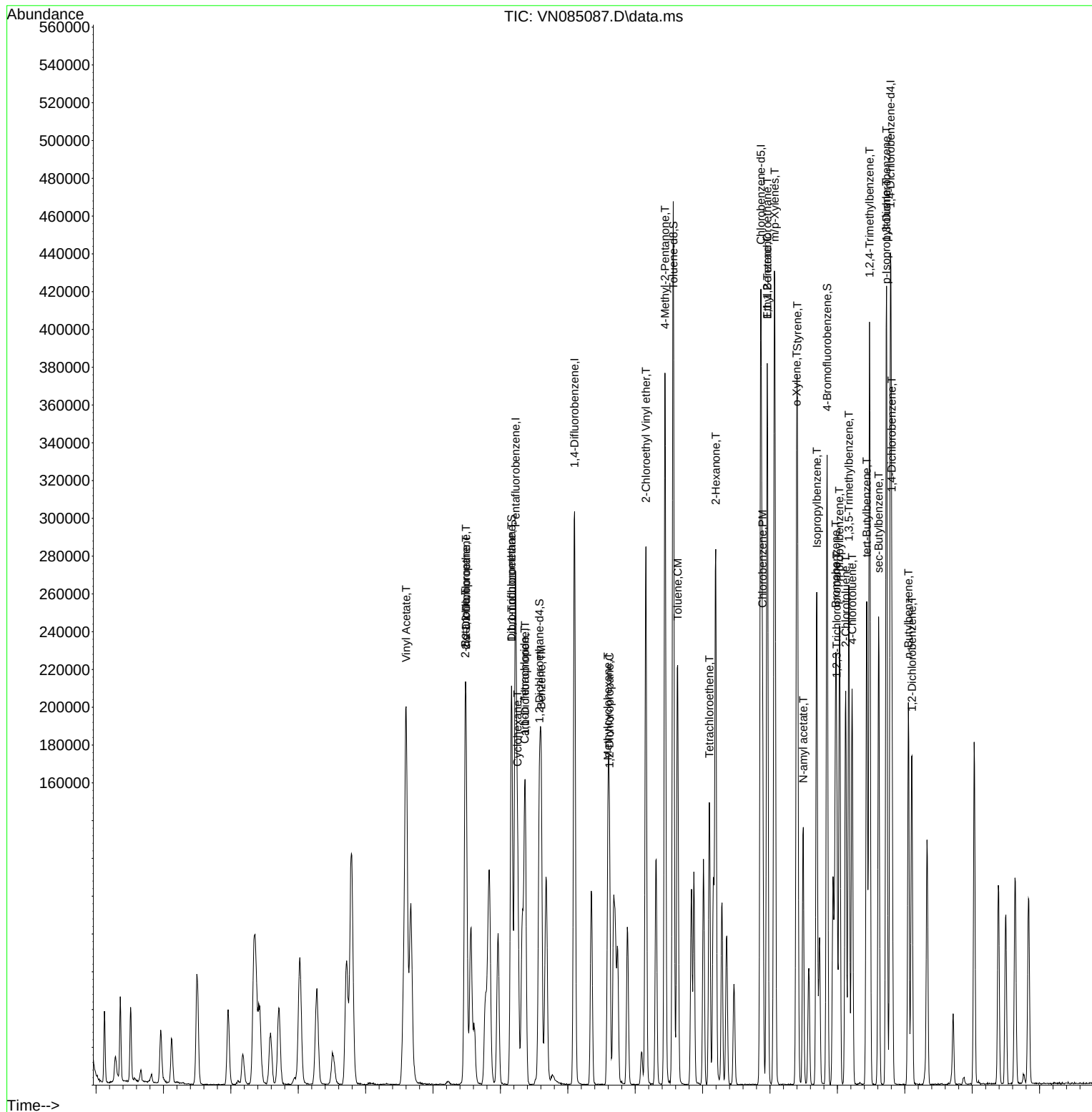
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

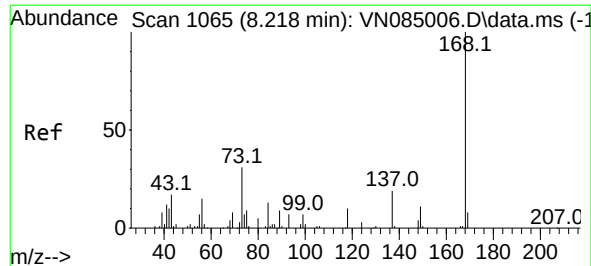
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VN1204WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024





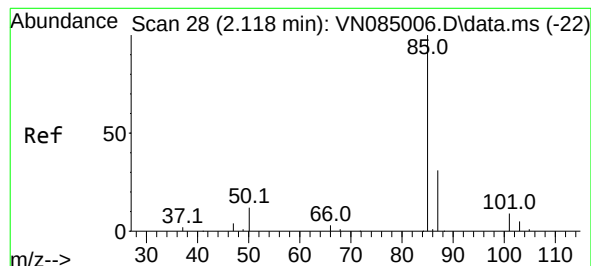
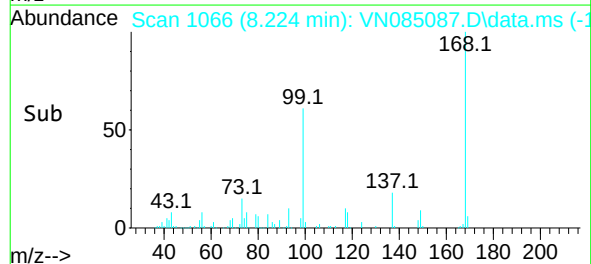
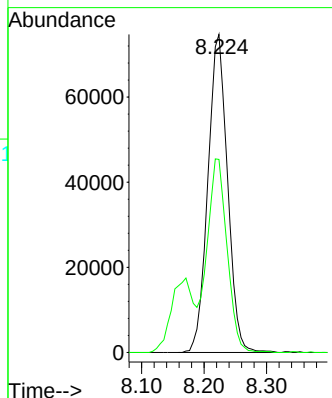
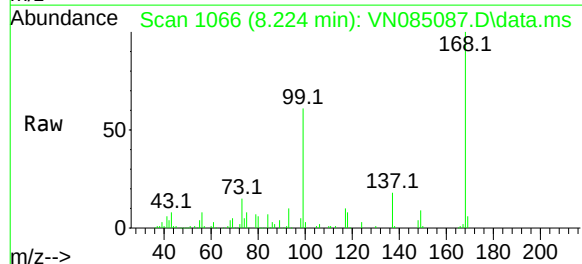
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085087.D
Acq: 04 Dec 2024 12:14

Instrument :
MSVOA_N
ClientSampleId :
VN1204WBS01

Tgt Ion:168 Resp: 163110
Ion Ratio Lower Upper
168 100
99 60.7 51.2 76.8

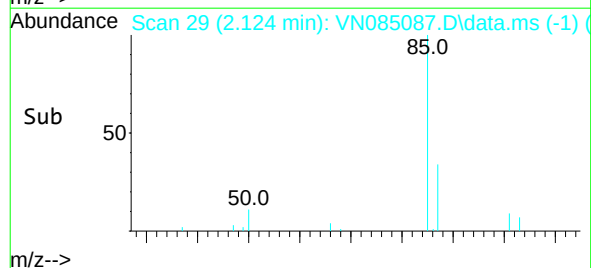
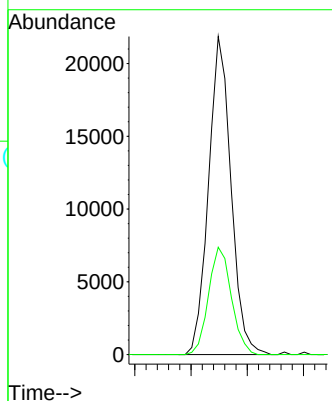
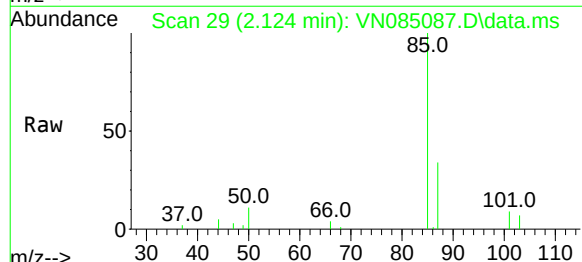
Manual Integrations
APPROVED

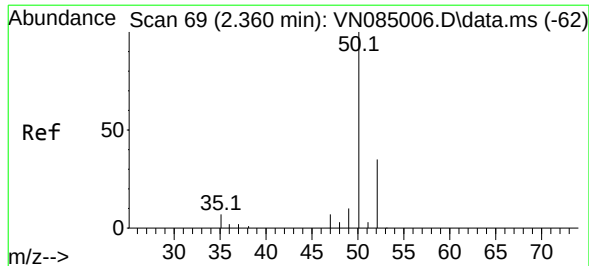
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#2
Dichlorodifluoromethane
Concen: 16.458 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.006 min
Lab File: VN085087.D
Acq: 04 Dec 2024 12:14

Tgt Ion: 85 Resp: 30354
Ion Ratio Lower Upper
85 100
87 33.8 15.7 47.1





#3

Chloromethane

Concen: 16.527 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

ClientSampleId :

VN1204WBS01

Tgt Ion: 50 Resp: 35354

Ion Ratio Lower Upper

50 100

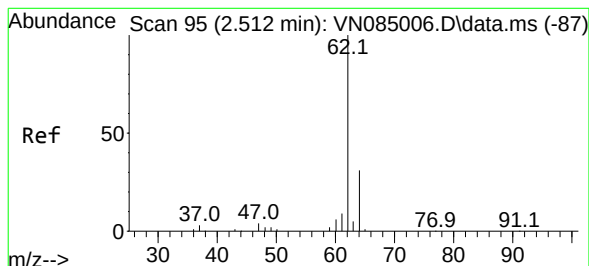
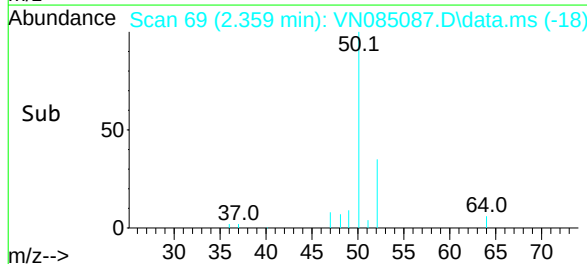
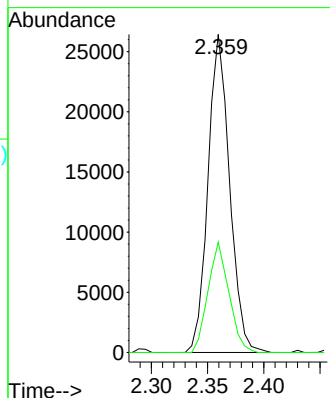
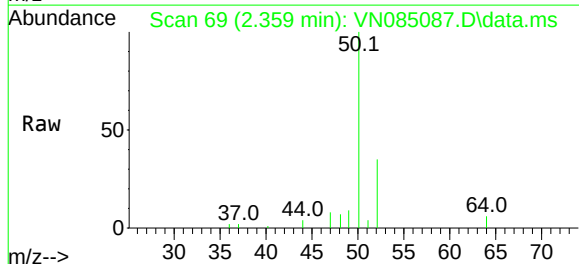
52 34.7 27.8 41.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#4

Vinyl Chloride

Concen: 18.814 ug/l

RT: 2.512 min Scan# 95

Delta R.T. -0.000 min

Lab File: VN085087.D

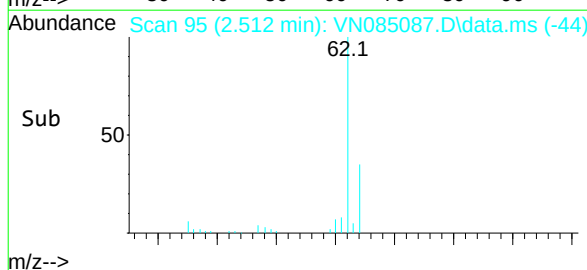
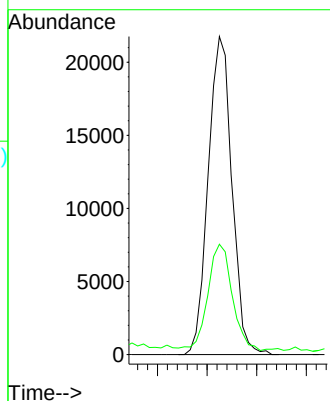
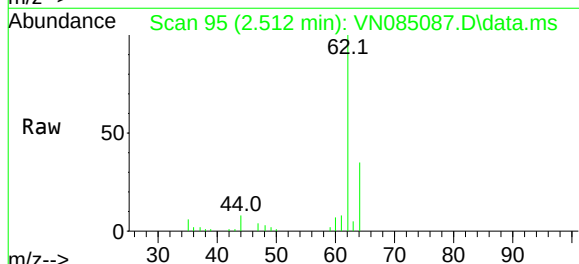
Acq: 04 Dec 2024 12:14

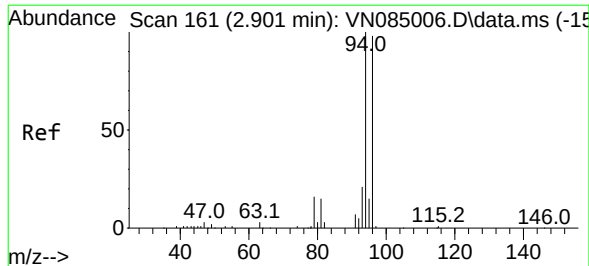
Tgt Ion: 62 Resp: 36169

Ion Ratio Lower Upper

62 100

64 32.8 24.6 36.8





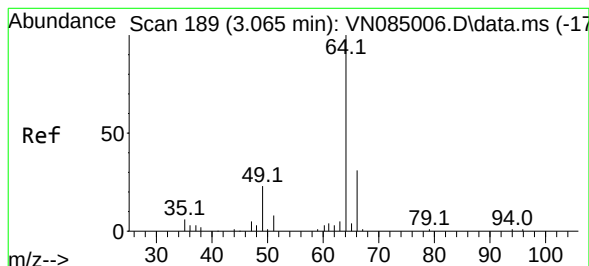
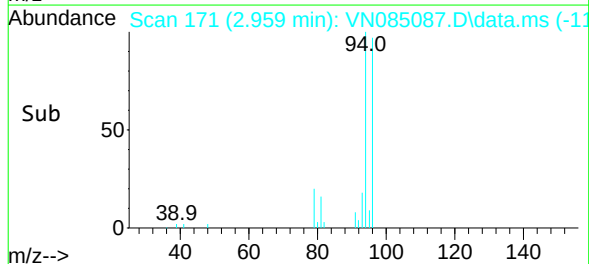
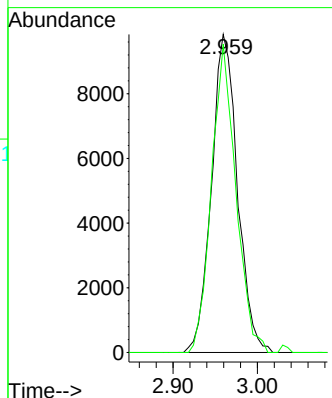
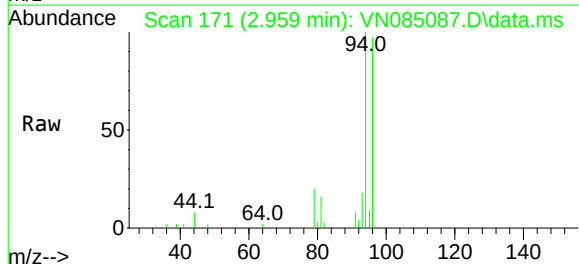
#5
Bromomethane
Concen: 19.553 ug/l
RT: 2.959 min Scan# 171
Delta R.T. 0.059 min
Lab File: VN085087.D
Acq: 04 Dec 2024 12:14

Instrument :
MSVOA_N
ClientSampleId :
VN1204WBS01

Tgt Ion: 94 Resp: 21068
Ion Ratio Lower Upper
94 100
96 97.0 78.7 118.1

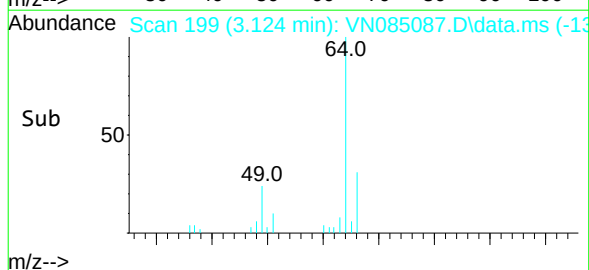
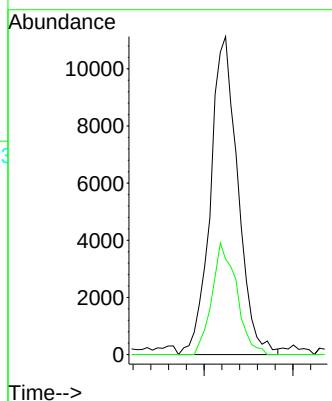
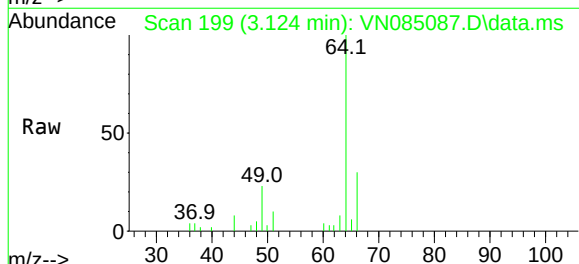
Manual Integrations
APPROVED

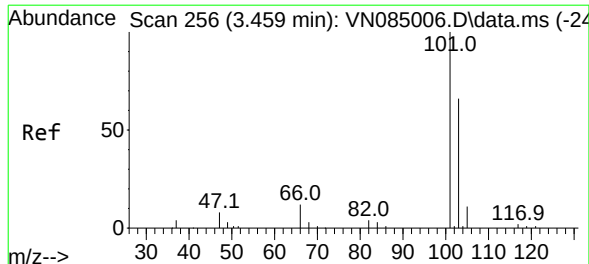
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#6
Chloroethane
Concen: 18.450 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.059 min
Lab File: VN085087.D
Acq: 04 Dec 2024 12:14

Tgt Ion: 64 Resp: 23907
Ion Ratio Lower Upper
64 100
66 30.0 24.4 36.6





#7

Trichlorofluoromethane

Concen: 20.283 ug/l

RT: 3.501 min Scan# 26

Delta R.T. 0.041 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

ClientSampleId :

VN1204WBS01

Tgt Ion:101 Resp: 66331

Ion Ratio Lower Upper

101 100

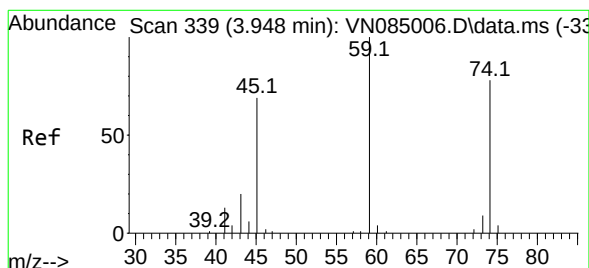
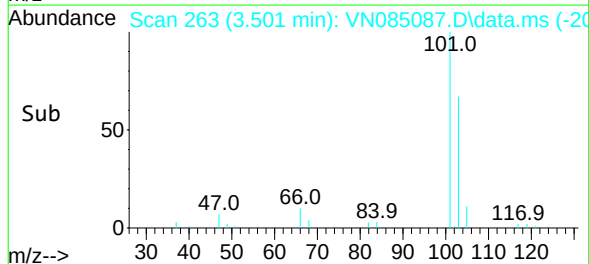
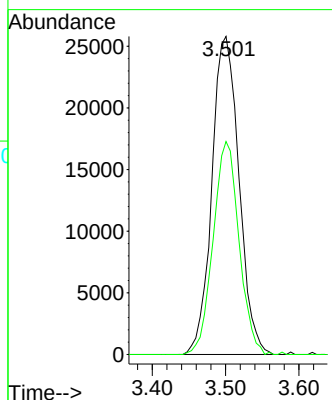
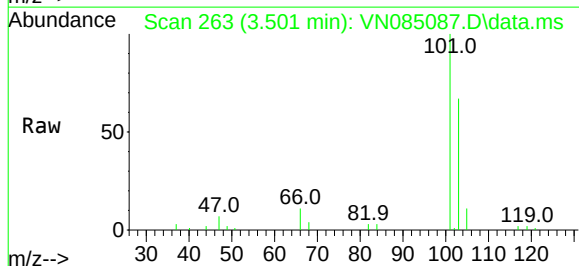
103 66.9 52.6 78.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#8

Diethyl Ether

Concen: 20.624 ug/l

RT: 3.959 min Scan# 341

Delta R.T. 0.012 min

Lab File: VN085087.D

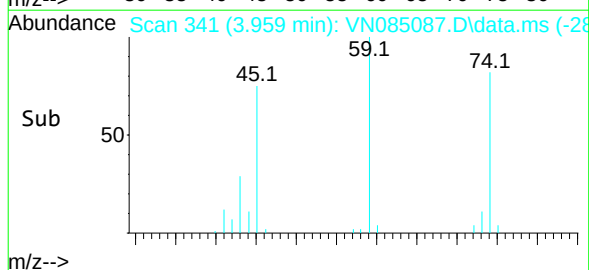
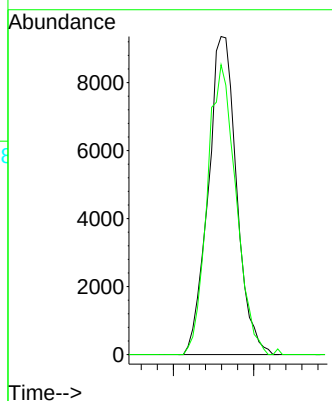
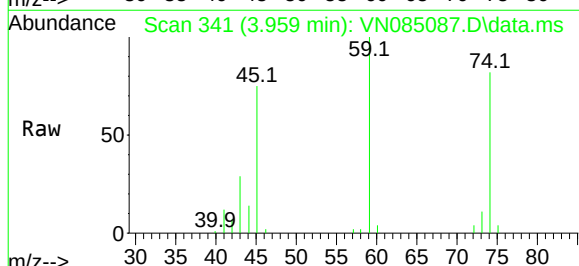
Acq: 04 Dec 2024 12:14

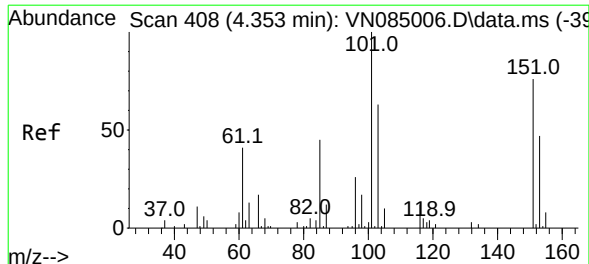
Tgt Ion: 74 Resp: 22955

Ion Ratio Lower Upper

74 100

45 92.0 46.7 140.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.026 ug/l

RT: 4.371 min Scan# 411

Delta R.T. 0.018 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

ClientSampleId :

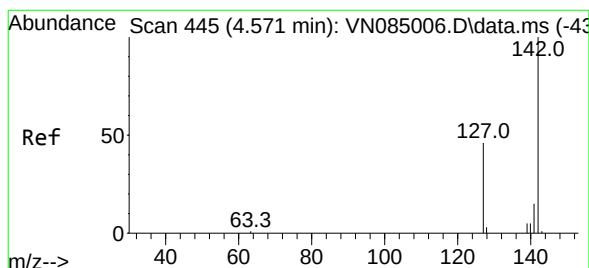
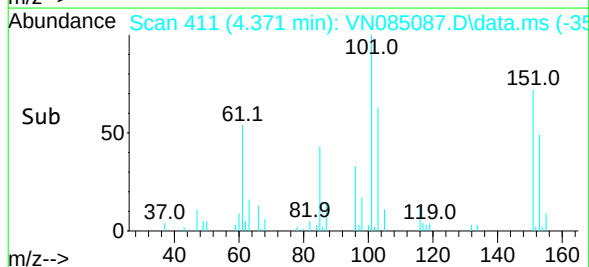
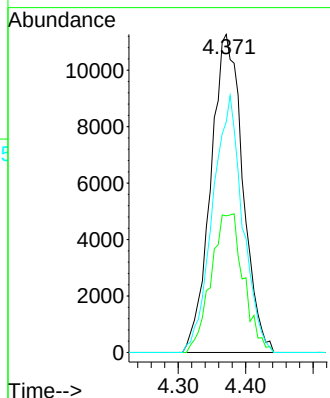
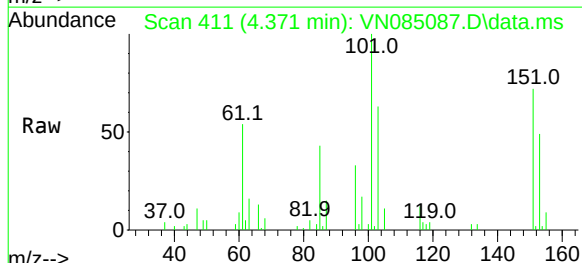
VN1204WBS01

Tgt	Ion:101	Resp:	37143
Ion	Ratio	Lower	Upper
101	100		
85	44.3	36.9	55.3
151	76.0	60.8	91.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#10

Methyl Iodide

Concen: 19.090 ug/l

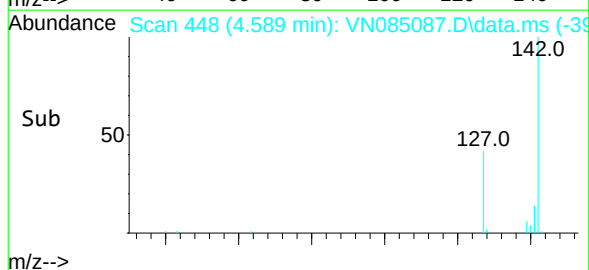
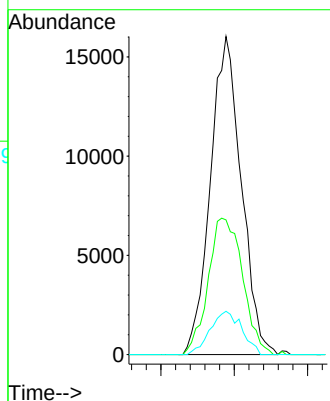
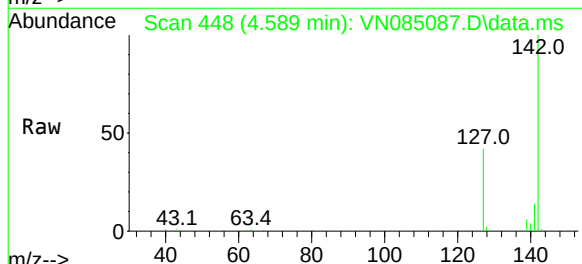
RT: 4.589 min Scan# 448

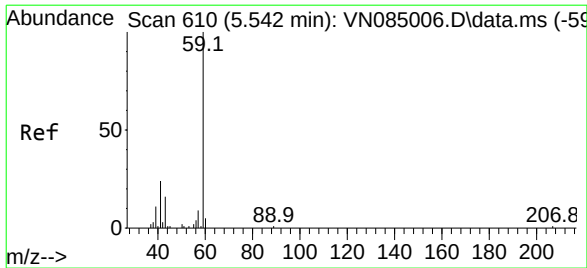
Delta R.T. 0.018 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Tgt	Ion:142	Resp:	46869
Ion	Ratio	Lower	Upper
142	100		
127	42.4	36.6	54.8
141	13.6	12.2	18.4





#11

Tert butyl alcohol

Concen: 99.302 ug/l

RT: 5.506 min Scan# 604

Delta R.T. -0.035 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

ClientSampleId :

VN1204WBS01

Tgt Ion: 59 Resp: 30831

Ion Ratio Lower Upper

59 100

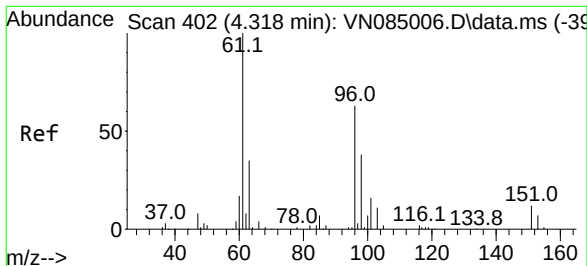
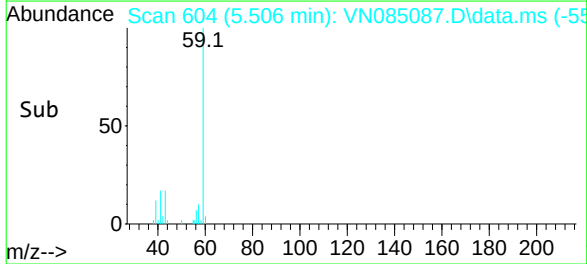
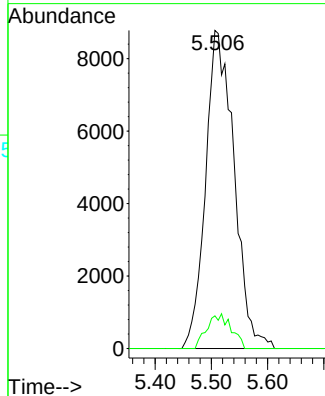
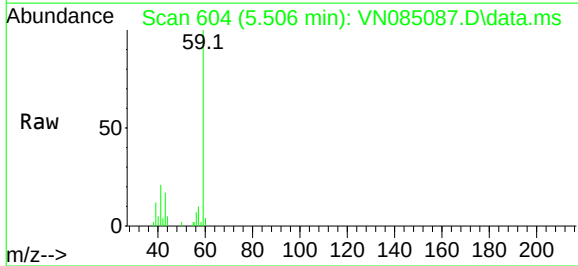
57 9.3 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#12

1,1-Dichloroethene

Concen: 20.413 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.024 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

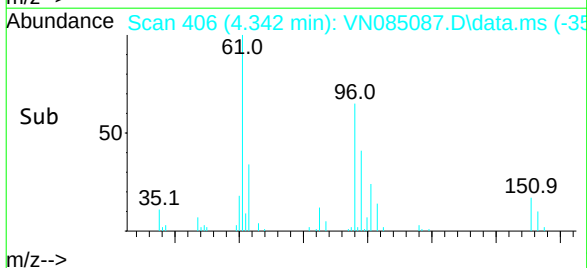
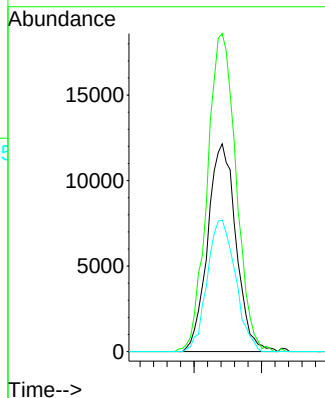
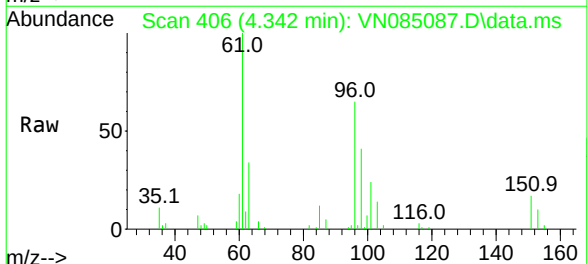
Tgt Ion: 96 Resp: 35340

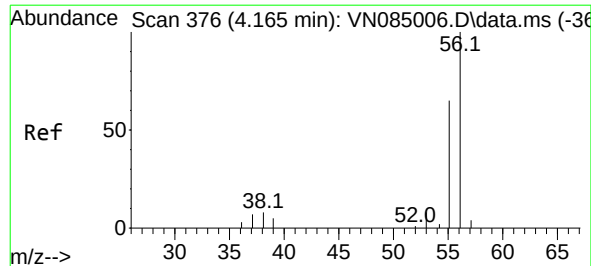
Ion Ratio Lower Upper

96 100

61 153.1 127.8 191.8

98 63.3 49.2 73.8





#13

Acrolein

Concen: 101.814 ug/l

RT: 4.177 min Scan# 376

Delta R.T. 0.012 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

ClientSampleId :

VN1204WBS01

Tgt Ion: 56 Resp: 21093

Ion Ratio Lower Upper

56 100

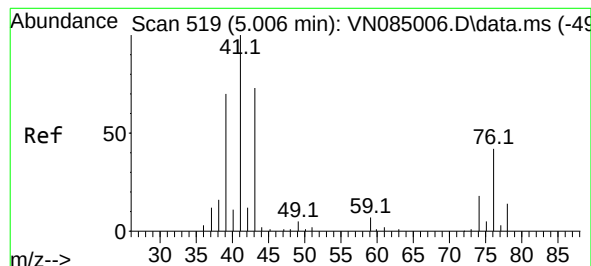
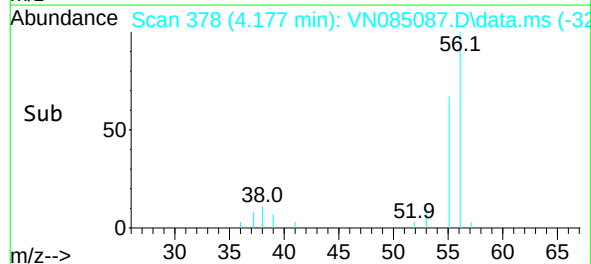
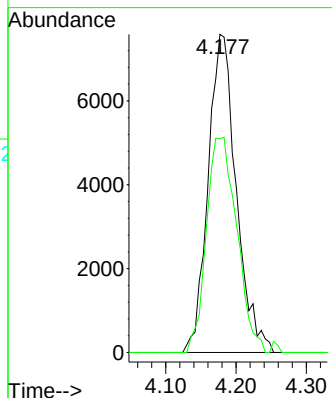
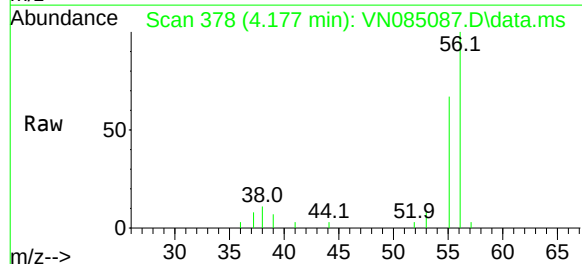
55 73.2 54.5 81.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#14

Allyl chloride

Concen: 17.398 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.012 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

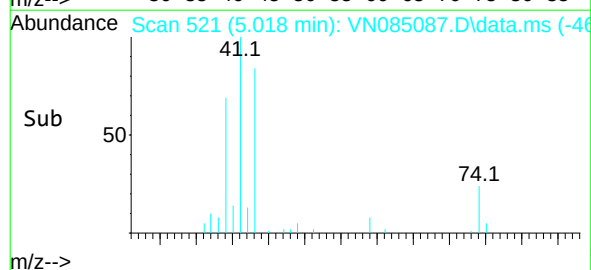
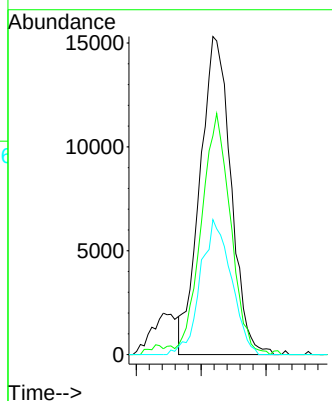
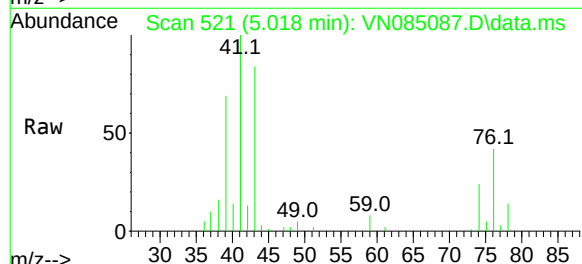
Tgt Ion: 41 Resp: 50775

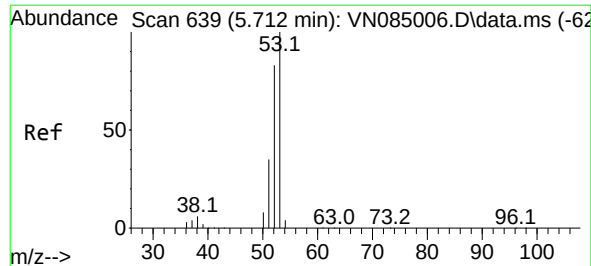
Ion Ratio Lower Upper

41 100

39 71.8 53.8 80.8

76 42.1 29.3 43.9





#15

Acrylonitrile

Concen: 102.403 ug/l

RT: 5.718 min Scan# 64

Delta R.T. 0.006 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

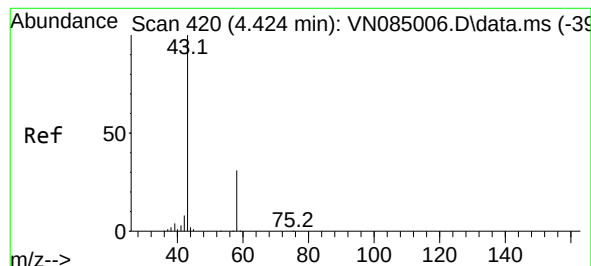
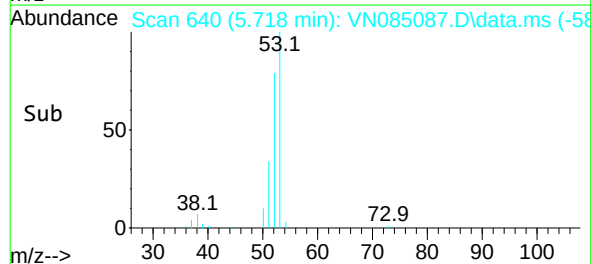
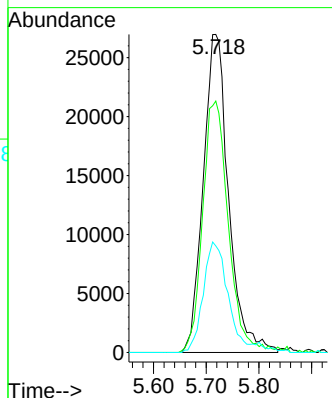
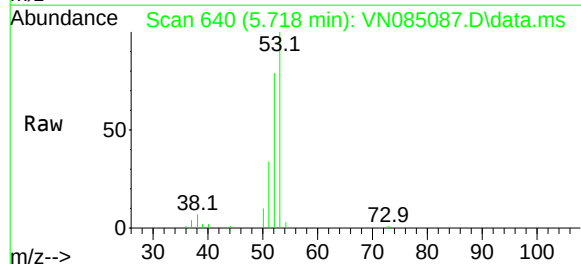
ClientSampleId :

VN1204WBS01

Tgt Ion:	53	Resp:	90013
Ion	Ratio	Lower	Upper
53	100		
52	80.0	65.5	98.3
51	33.6	28.4	42.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#16

Acetone

Concen: 110.517 ug/l

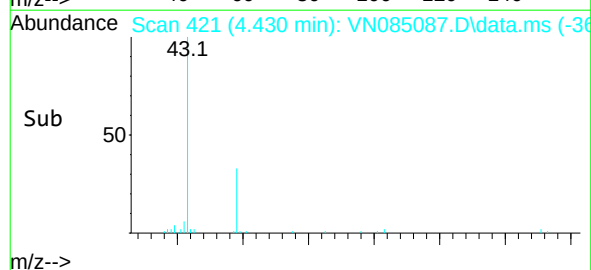
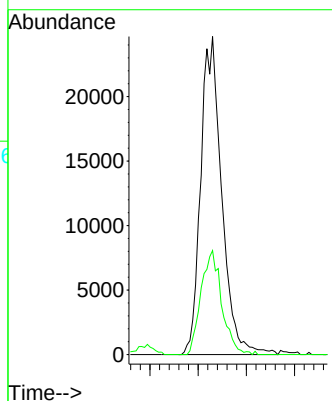
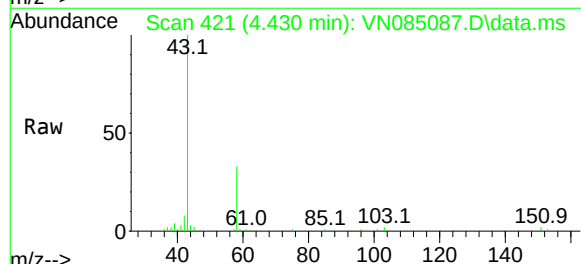
RT: 4.430 min Scan# 421

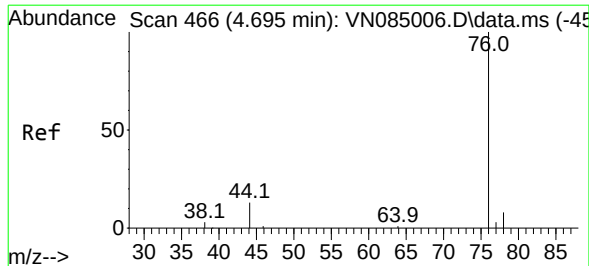
Delta R.T. 0.006 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Tgt Ion:	43	Resp:	74782
Ion	Ratio	Lower	Upper
43	100		
58	32.7	25.4	38.2





#17

Carbon Disulfide

Concen: 18.716 ug/l

RT: 4.712 min Scan# 46

Delta R.T. 0.018 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

ClientSampleId :

VN1204WBS01

Tgt Ion: 76 Resp: 95638

Ion Ratio Lower Upper

76 100

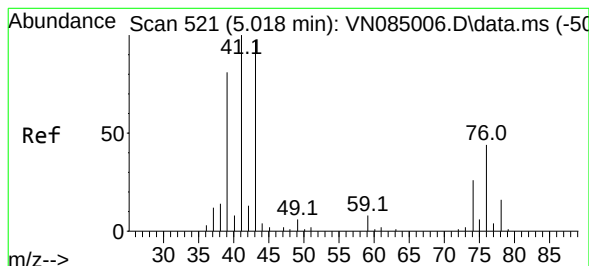
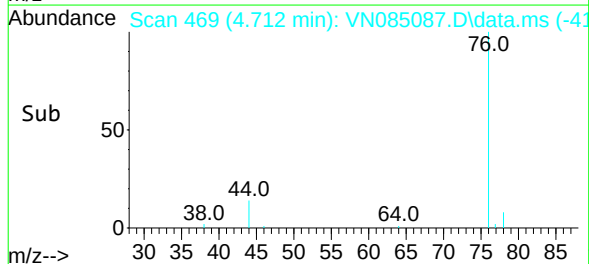
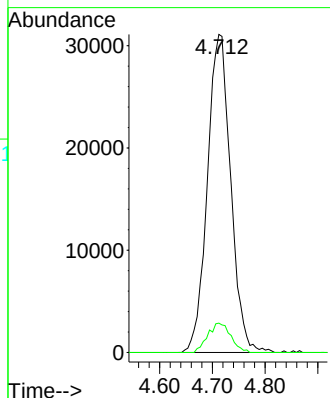
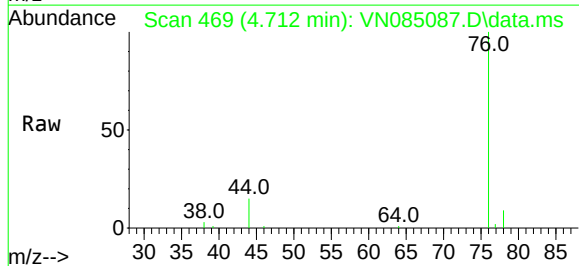
78 9.2 6.5 9.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#18

Methyl Acetate

Concen: 20.085 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN085087.D

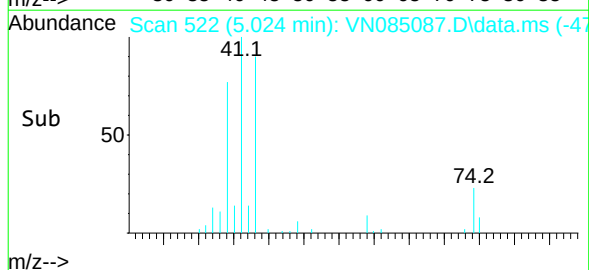
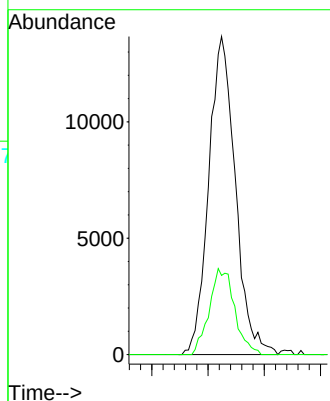
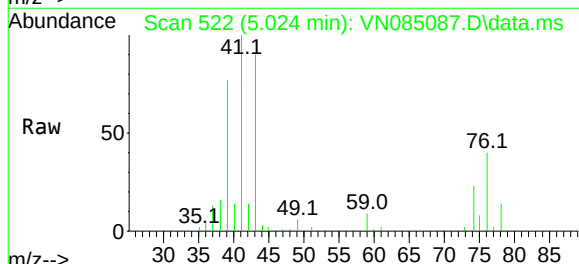
Acq: 04 Dec 2024 12:14

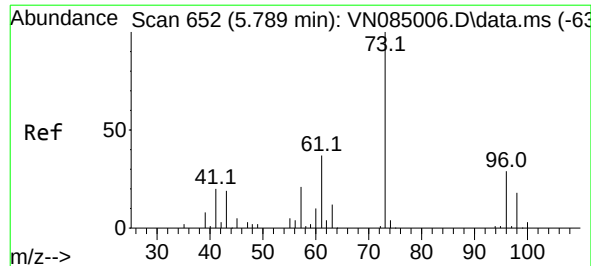
Tgt Ion: 43 Resp: 44923

Ion Ratio Lower Upper

43 100

74 25.6 20.1 30.1





#19

Methyl tert-butyl Ether

Concen: 20.466 ug/l

RT: 5.795 min Scan# 65

Delta R.T. 0.006 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

ClientSampleId :

VN1204WBS01

Tgt Ion: 73 Resp: 115767

Ion Ratio Lower Upper

73 100

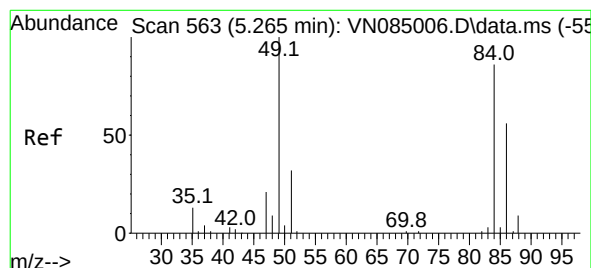
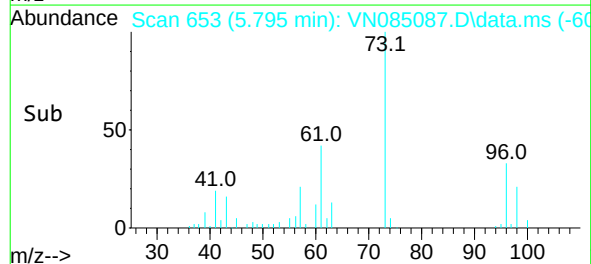
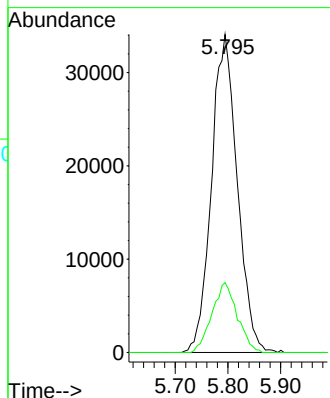
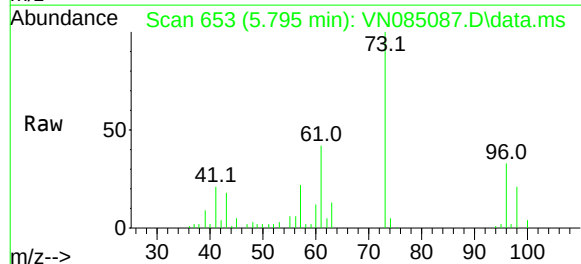
57 22.0 17.0 25.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#20

Methylene Chloride

Concen: 19.169 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.006 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Tgt Ion: 84 Resp: 39580

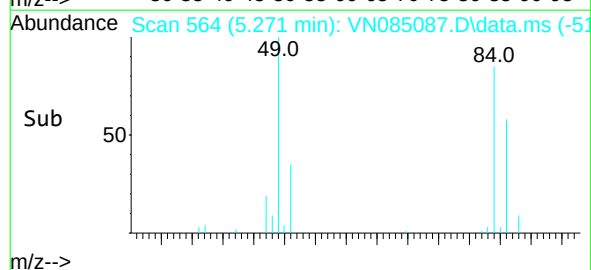
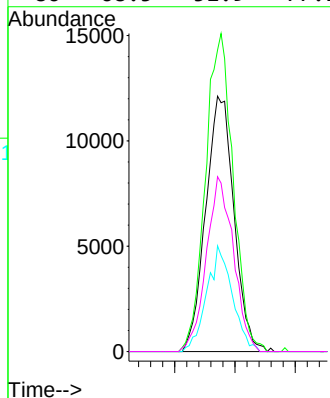
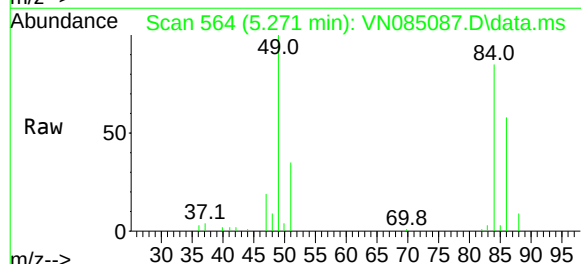
Ion Ratio Lower Upper

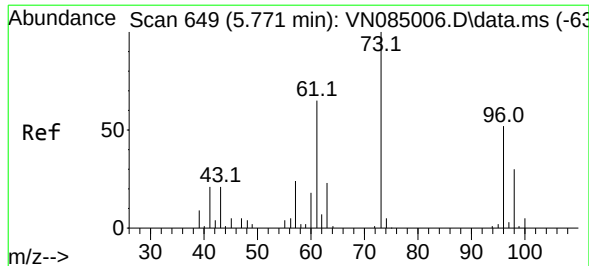
84 100

49 118.1 92.7 139.1

51 41.4 29.4 44.2

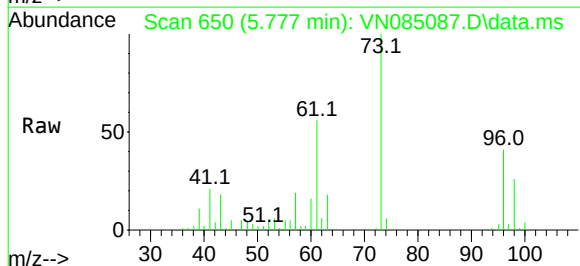
86 68.5 51.9 77.9





#21
trans-1,2-Dichloroethene
Concen: 20.167 ug/l
RT: 5.777 min Scan# 65
Delta R.T. 0.006 min
Lab File: VN085087.D
Acq: 04 Dec 2024 12:14

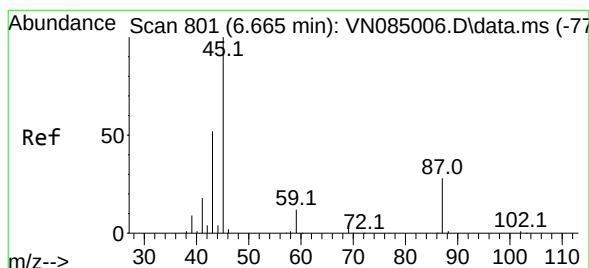
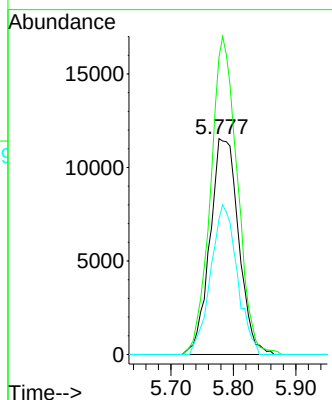
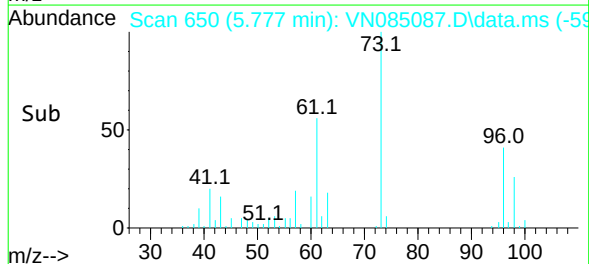
Instrument :
MSVOA_N
ClientSampleId :
VN1204WBS01



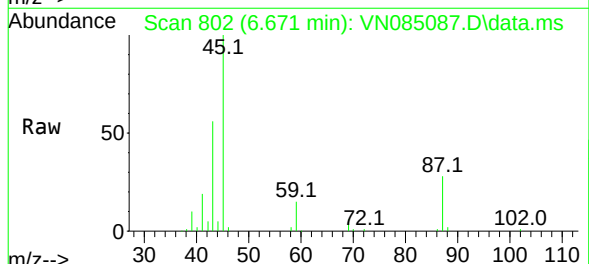
Tgt Ion: 96 Resp: 36741
Ion Ratio Lower Upper
96 100
61 137.6 100.7 151.1
98 62.7 45.8 68.6

Manual Integrations
APPROVED

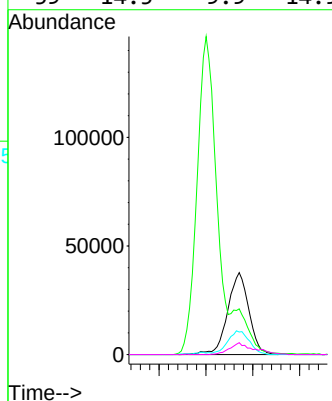
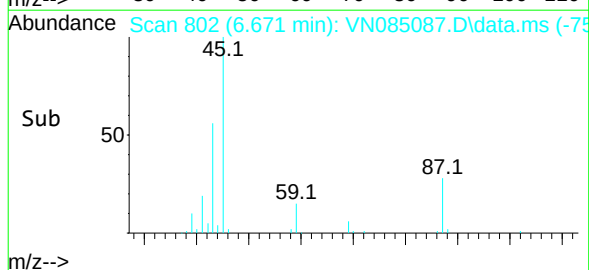
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024

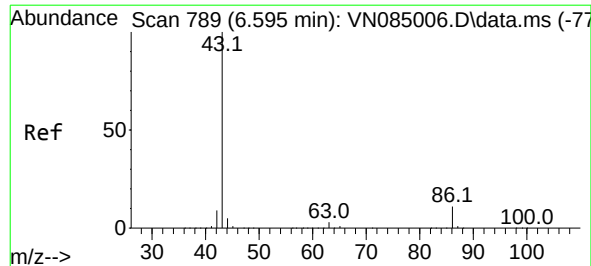


#22
Diisopropyl ether
Concen: 20.222 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.006 min
Lab File: VN085087.D
Acq: 04 Dec 2024 12:14



Tgt Ion: 45 Resp: 118783
Ion Ratio Lower Upper
45 100
43 54.1 42.7 64.1
87 27.6 22.6 34.0
59 14.5 9.9 14.9





#23

Vinyl Acetate

Concen: 103.803 ug/l

RT: 6.600 min Scan# 790

Delta R.T. 0.006 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

ClientSampleId :

VN1204WBS01

Tgt Ion: 43 Resp: 420644

Ion Ratio Lower Upper

43 100

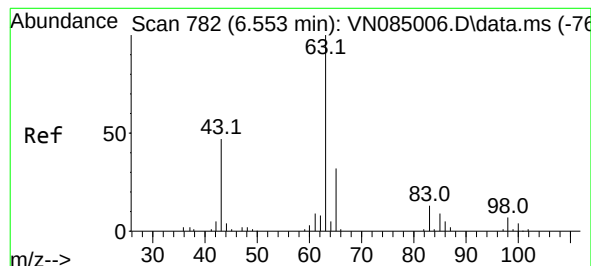
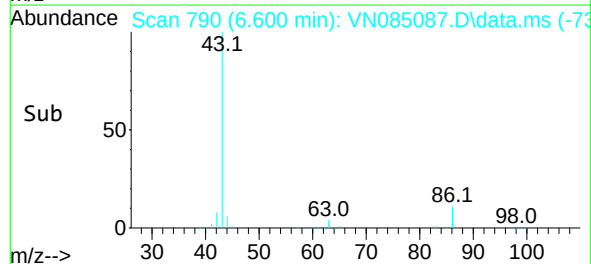
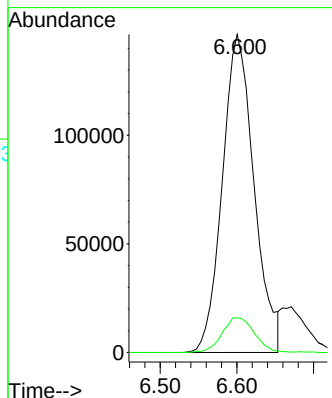
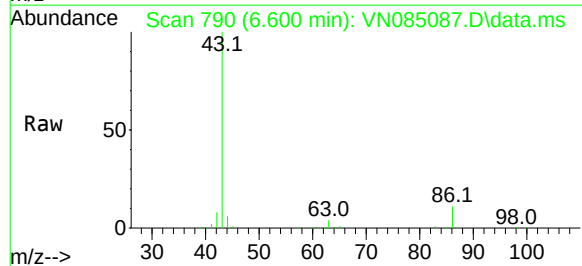
86 10.9 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#24

1,1-Dichloroethane

Concen: 20.108 ug/l

RT: 6.565 min Scan# 784

Delta R.T. 0.012 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

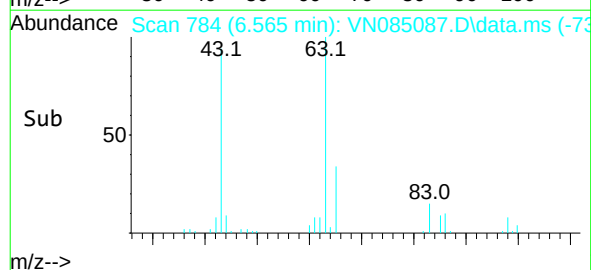
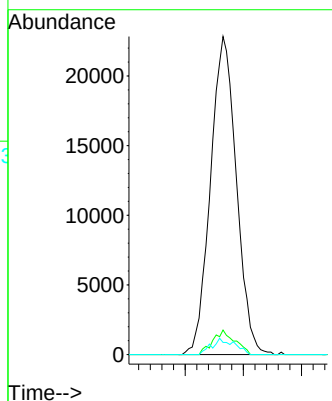
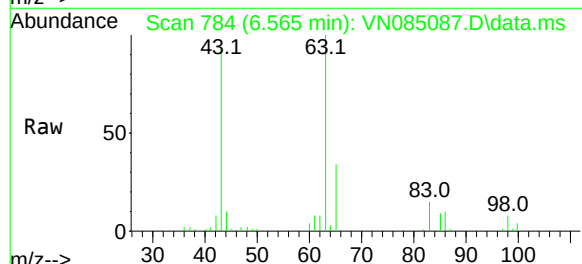
Tgt Ion: 63 Resp: 70683

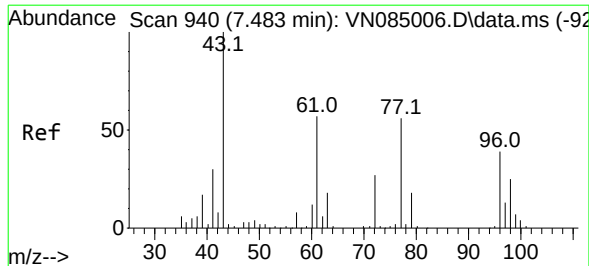
Ion Ratio Lower Upper

63 100

98 7.7 3.3 9.8

100 3.8 2.2 6.6





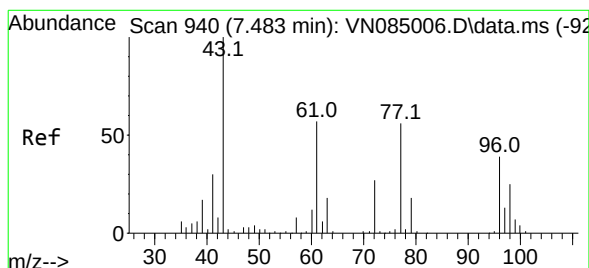
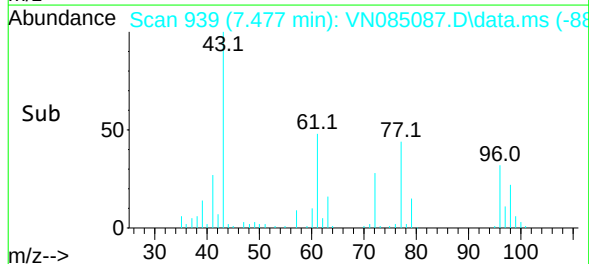
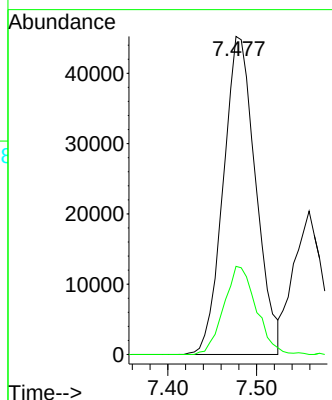
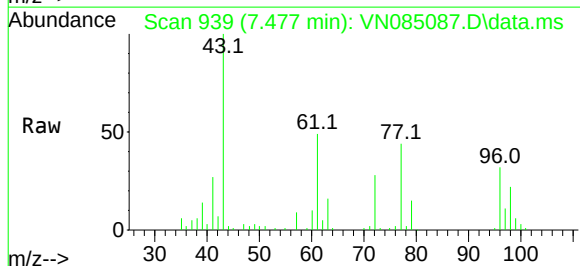
#25
2-Butanone
Concen: 103.842 ug/l
RT: 7.477 min Scan# 939
Delta R.T. -0.006 min
Lab File: VN085087.D
Acq: 04 Dec 2024 12:14

Instrument :
MSVOA_N
ClientSampleId :
VN1204WBS01

Tgt Ion: 43 Resp: 114879
Ion Ratio Lower Upper
43 100
72 27.7 21.4 32.0

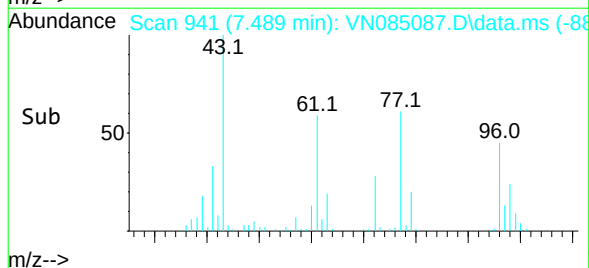
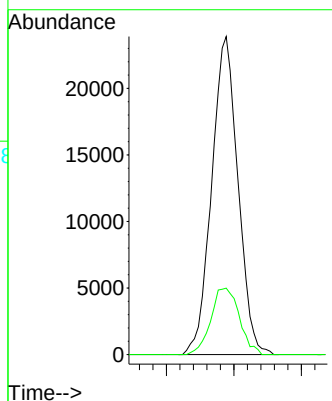
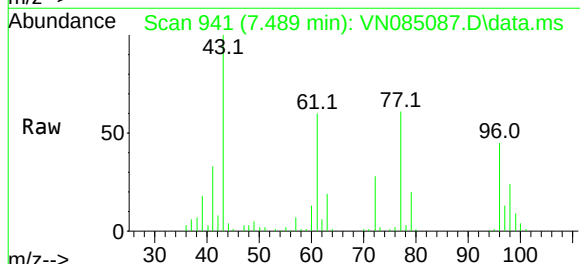
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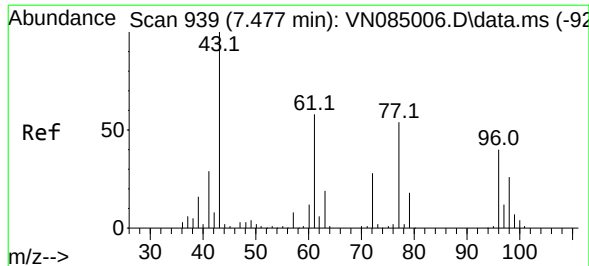
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#26
2,2-Dichloropropane
Concen: 19.670 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085087.D
Acq: 04 Dec 2024 12:14

Tgt Ion: 77 Resp: 64562
Ion Ratio Lower Upper
77 100
97 22.7 10.9 32.7





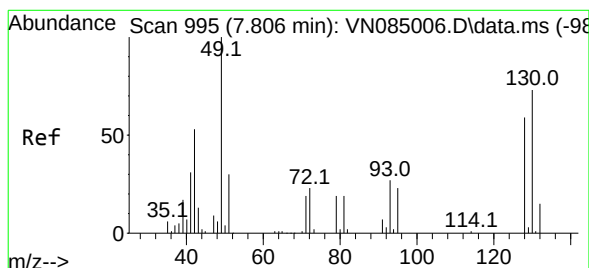
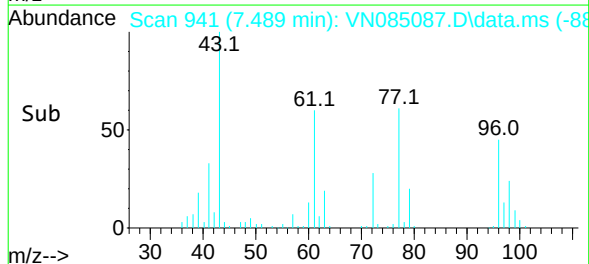
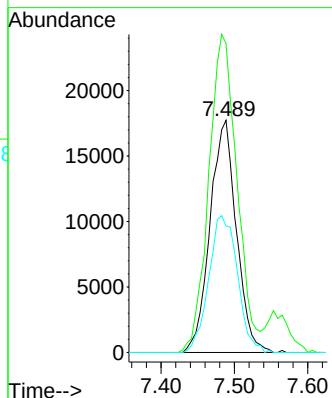
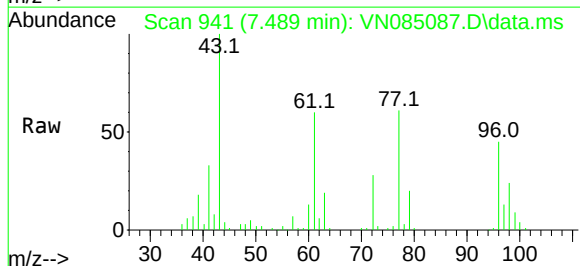
#27
cis-1,2-Dichloroethene
Concen: 20.182 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN085087.D
Acq: 04 Dec 2024 12:14

Instrument :
MSVOA_N
ClientSampleId :
VN1204WBS01

Tgt Ion: 96 Resp: 44327
Ion Ratio Lower Upper
96 100
61 146.8 0.0 291.6
98 64.1 0.0 129.8

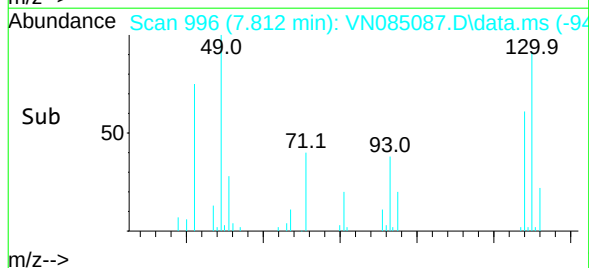
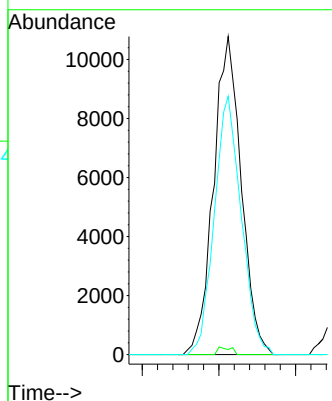
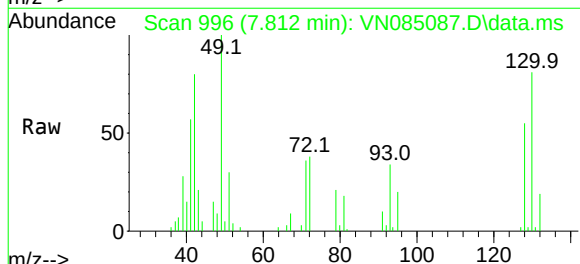
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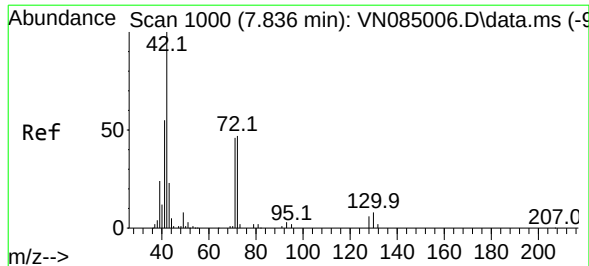
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#28
Bromochloromethane
Concen: 20.426 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN085087.D
Acq: 04 Dec 2024 12:14

Tgt Ion: 49 Resp: 27103
Ion Ratio Lower Upper
49 100
129 1.1 0.0 4.0
130 78.7 60.6 90.8





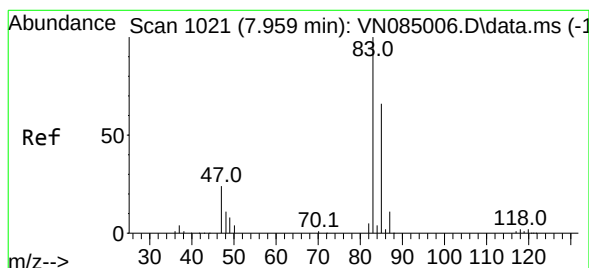
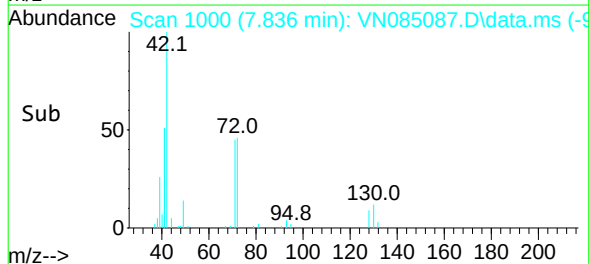
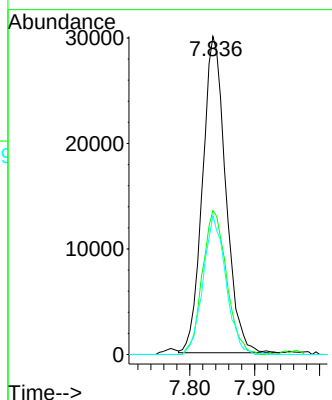
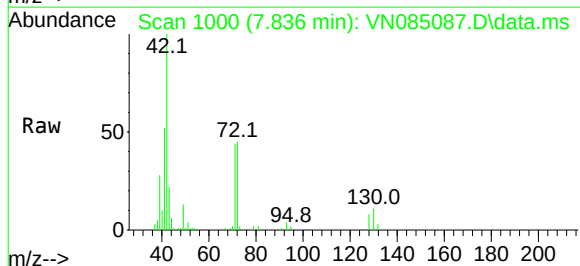
#29
Tetrahydrofuran
Concen: 108.095 ug/l
RT: 7.836 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085087.D
Acq: 04 Dec 2024 12:14

Instrument :
MSVOA_N
ClientSampleId :
VN1204WBS01

Tgt Ion: 42 Resp: 74365
Ion Ratio Lower Upper
42 100
72 47.3 37.0 55.4
71 43.0 35.0 52.4

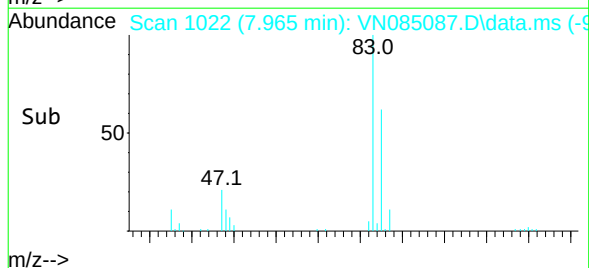
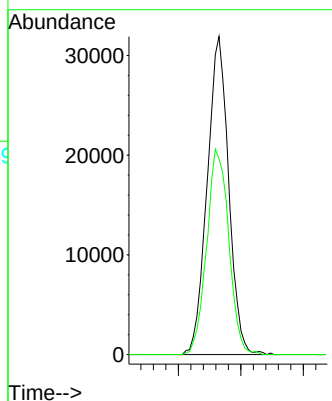
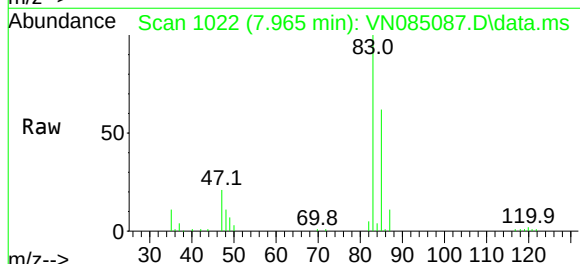
Manual Integrations
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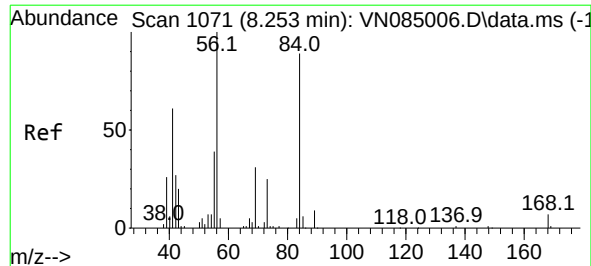
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#30
Chloroform
Concen: 20.394 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085087.D
Acq: 04 Dec 2024 12:14

Tgt Ion: 83 Resp: 76257
Ion Ratio Lower Upper
83 100
85 61.6 52.6 78.8





#31

Cyclohexane

Concen: 20.179 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

ClientSampleId :

VN1204WBS01

Tgt Ion: 56 Resp: 62451

Ion Ratio Lower Upper

56 100

69 31.4 24.6 36.8

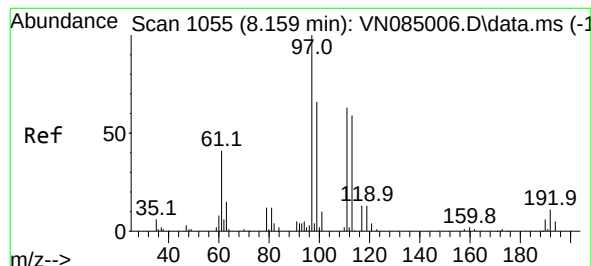
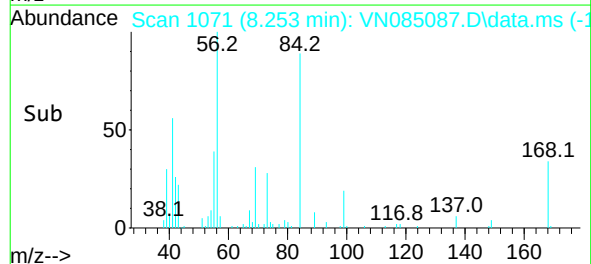
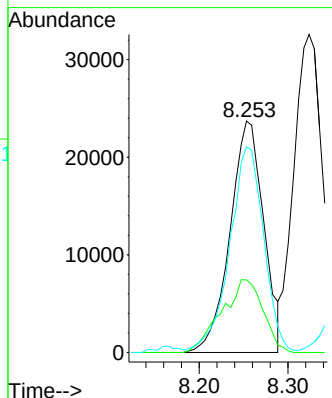
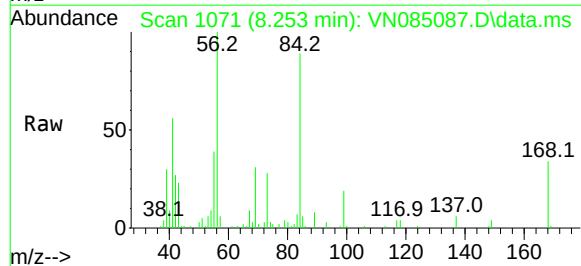
84 87.0 71.4 107.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#32

1,1,1-Trichloroethane

Concen: 20.390 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

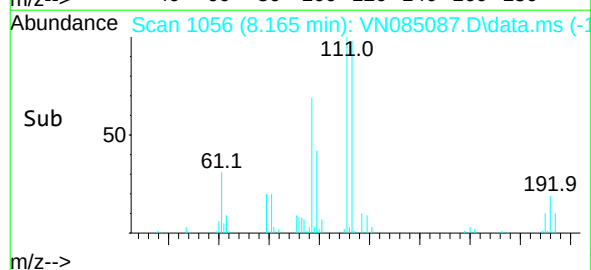
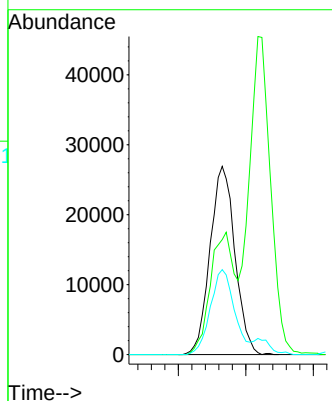
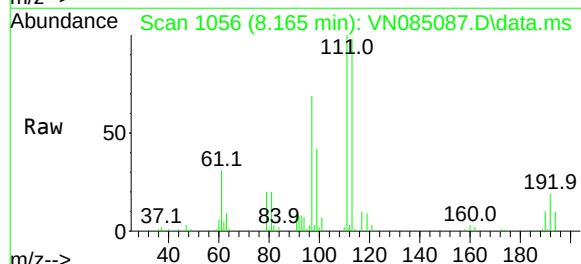
Tgt Ion: 97 Resp: 68895

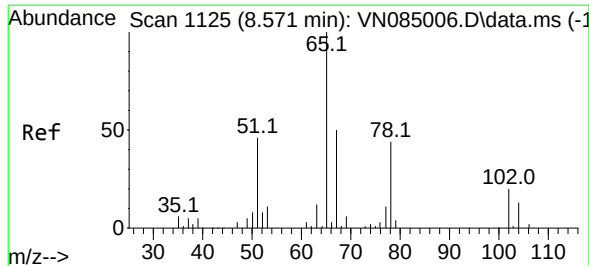
Ion Ratio Lower Upper

97 100

99 63.5 51.0 76.4

61 43.8 36.2 54.2





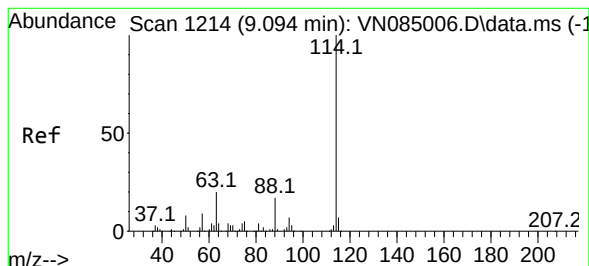
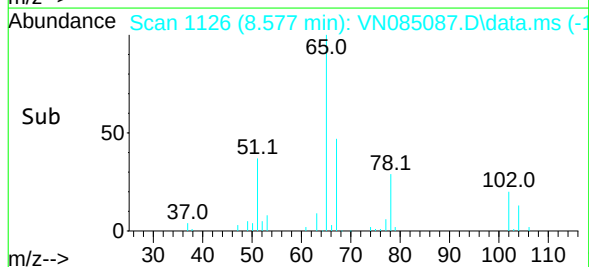
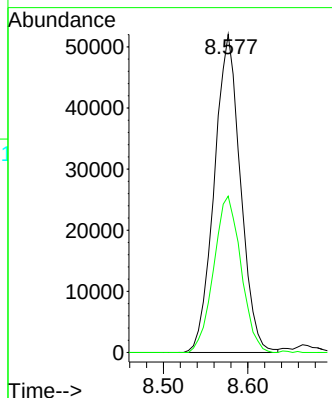
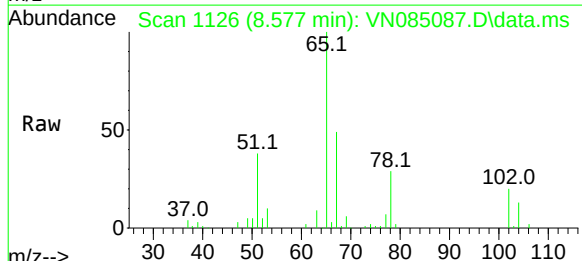
#33
1,2-Dichloroethane-d4
Concen: 48.323 ug/l
RT: 8.577 min Scan# 1125
Delta R.T. 0.006 min
Lab File: VN085087.D
Acq: 04 Dec 2024 12:14

Instrument :
MSVOA_N
ClientSampleId :
VN1204WBS01

Tgt Ion: 65 Resp: 112274
Ion Ratio Lower Upper
65 100
67 51.1 0.0 105.0

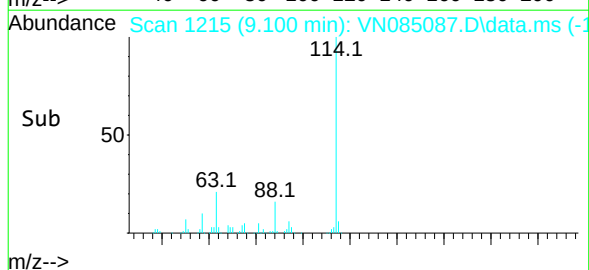
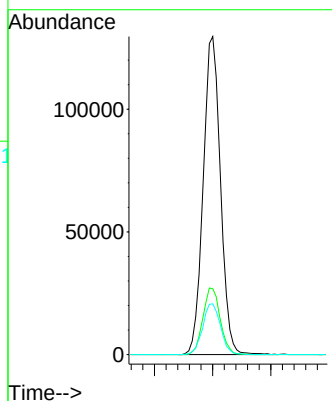
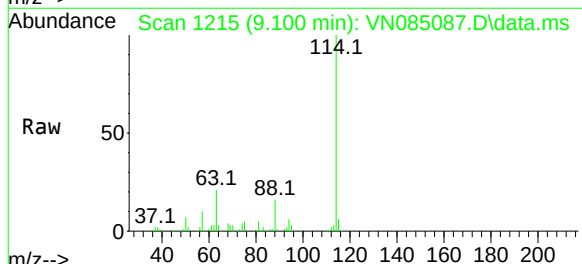
Manual Integrations
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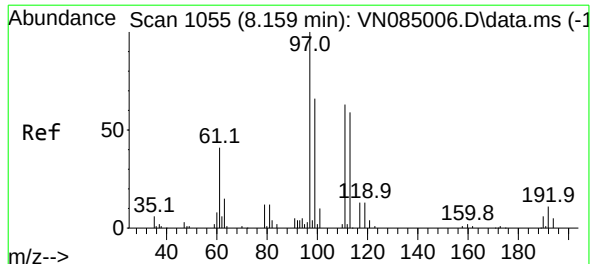
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085087.D
Acq: 04 Dec 2024 12:14

Tgt Ion:114 Resp: 267469
Ion Ratio Lower Upper
114 100
63 20.7 0.0 41.0
88 16.0 0.0 34.8





#35

Dibromofluoromethane

Concen: 50.860 ug/l

RT: 8.165 min Scan# 1055

Delta R.T. 0.006 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

ClientSampleId :

VN1204WBS01

Tgt Ion: 113 Resp: 91738

Ion Ratio Lower Upper

113 100

111 101.7 82.0 123.0

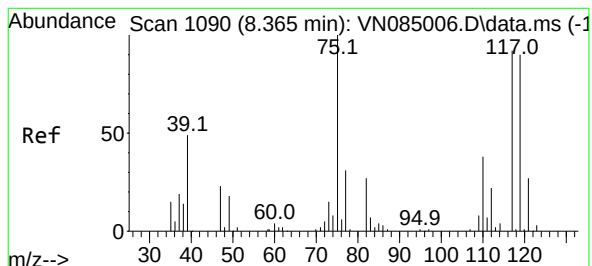
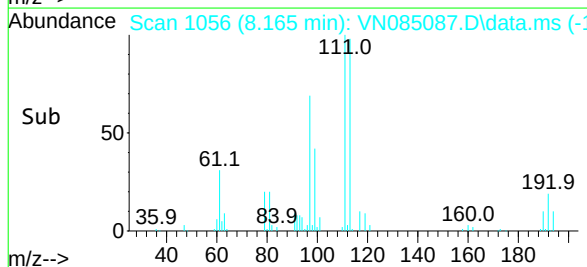
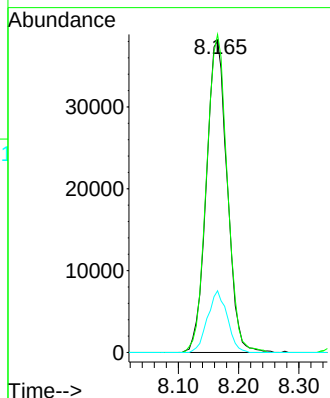
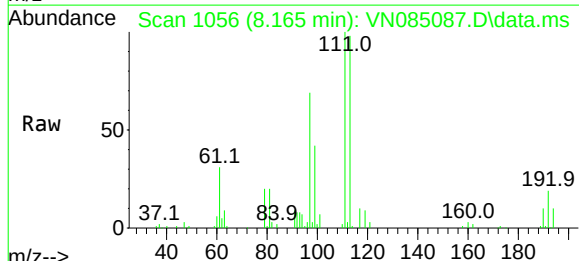
192 18.7 14.8 22.2

Manual Integrations

APPROVED

Reviewed By : John Carlone 12/05/2024

Supervised By : Mahesh Dadoda 12/05/2024



#36

1,1-Dichloropropene

Concen: 21.057 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

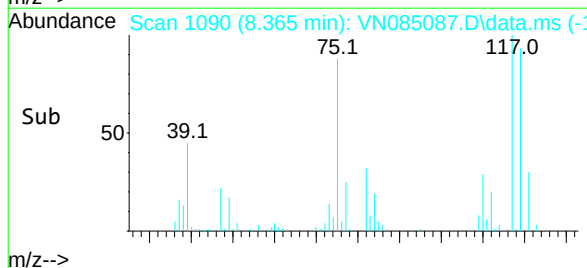
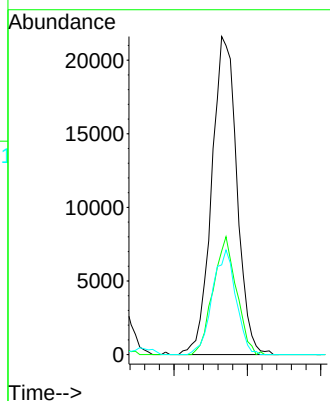
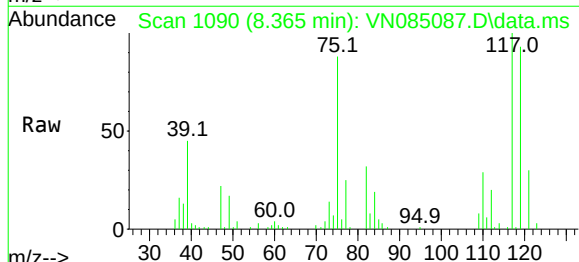
Tgt Ion: 75 Resp: 51446

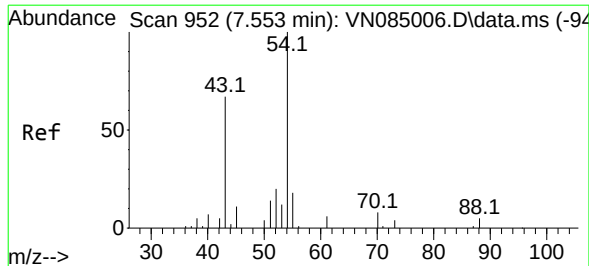
Ion Ratio Lower Upper

75 100

110 34.3 17.2 51.6

77 30.9 24.2 36.4





#37

Ethyl Acetate

Concen: 22.352 ug/l

RT: 7.559 min Scan# 95

Delta R.T. 0.006 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

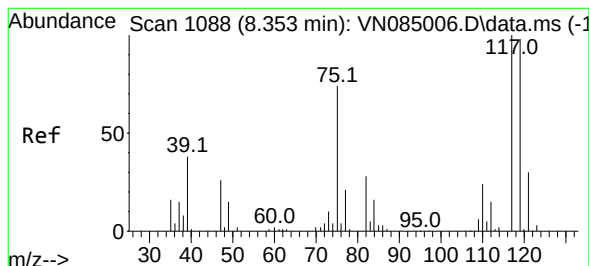
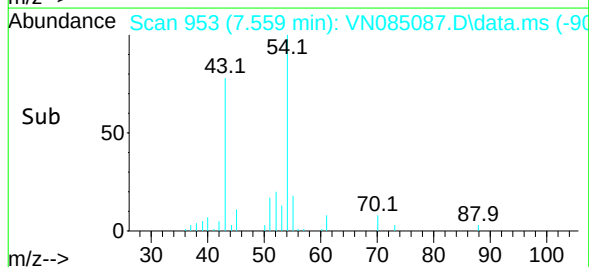
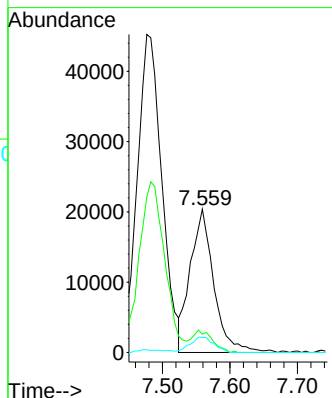
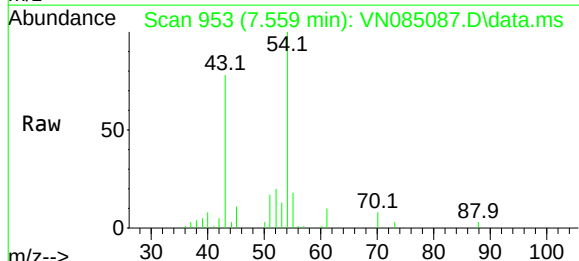
ClientSampleId :

VN1204WBS01

Tgt Ion:	43	Resp:	49646
Ion	Ratio	Lower	Upper
43	100		
61	13.3	11.7	17.5
70	10.8	9.3	13.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#38

Carbon Tetrachloride

Concen: 22.407 ug/l

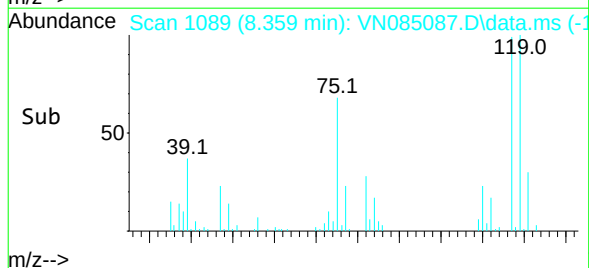
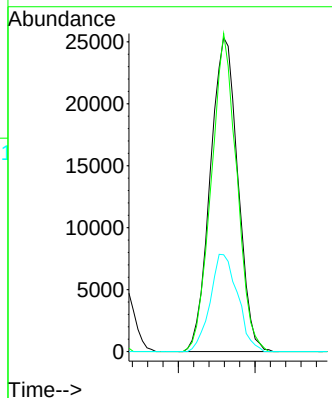
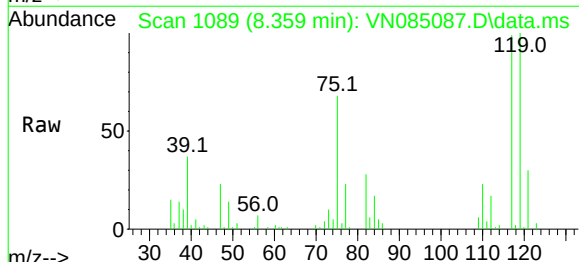
RT: 8.359 min Scan# 1089

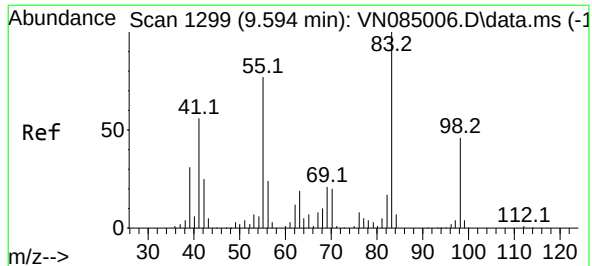
Delta R.T. 0.006 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Tgt Ion:	117	Resp:	63190
Ion	Ratio	Lower	Upper
117	100		
119	101.3	78.6	117.8
121	30.8	24.2	36.2





#39

Methylcyclohexane

Concen: 21.058 ug/l

RT: 9.594 min Scan# 1299

Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

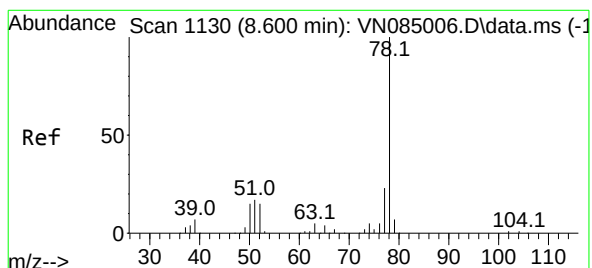
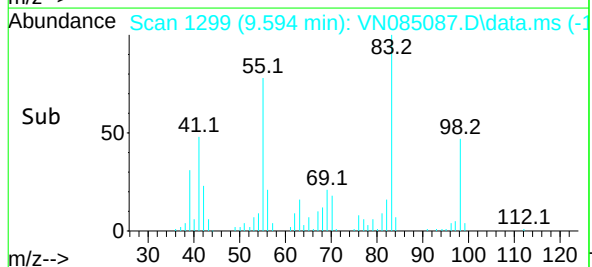
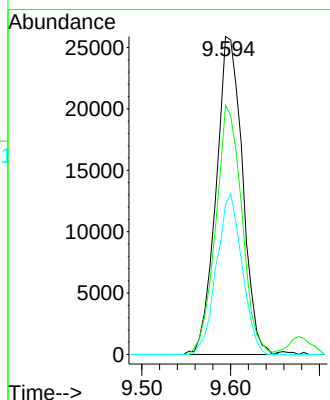
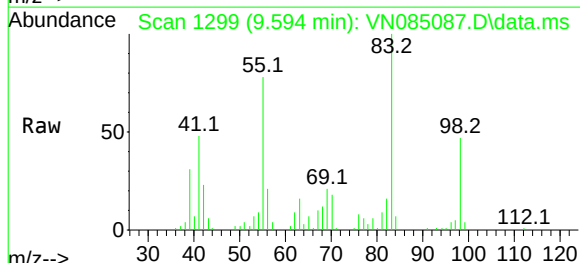
ClientSampleId :

VN1204WBS01

Tgt Ion:	83	Resp:	53461
Ion Ratio	Lower	Upper	
83	100		
55	78.4	61.8	92.6
98	47.3	37.0	55.6

Manual Integrations
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Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#40

Benzene

Concen: 21.224 ug/l

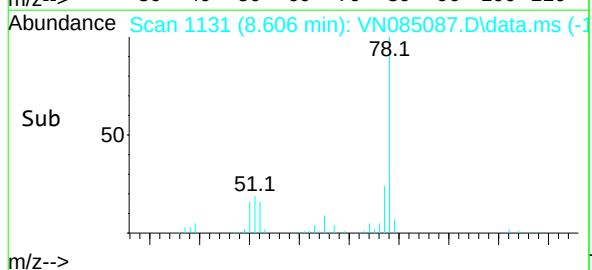
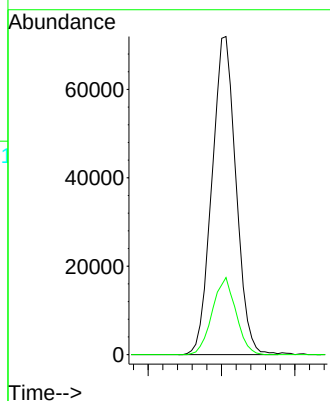
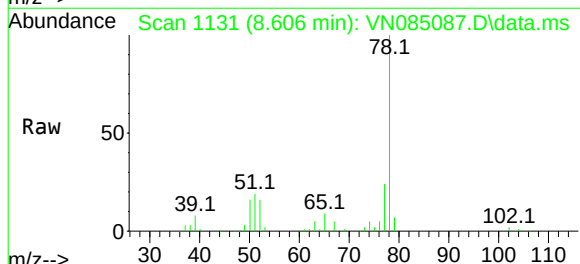
RT: 8.606 min Scan# 1131

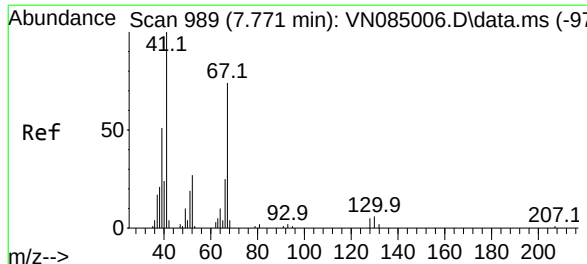
Delta R.T. 0.006 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Tgt Ion:	78	Resp:	164005
Ion Ratio	Lower	Upper	
78	100		
77	24.2	18.5	27.7





#41

Methacrylonitrile

Concen: 20.279 ug/l

RT: 7.777 min Scan# 99

Delta R.T. 0.006 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

ClientSampleId :

VN1204WBS01

Tgt Ion: 41 Resp: 24938

Ion Ratio Lower Upper

41 100

39 54.2 42.6 63.8

67 77.4 59.9 89.9

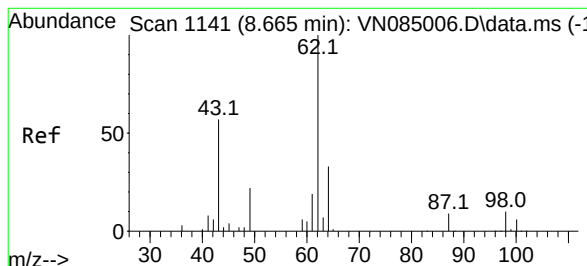
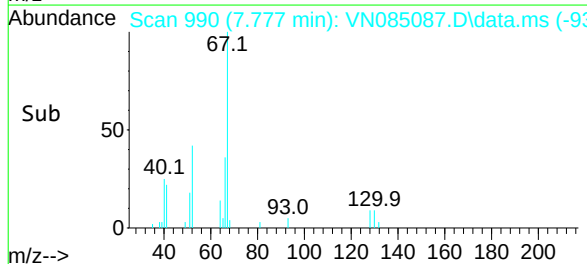
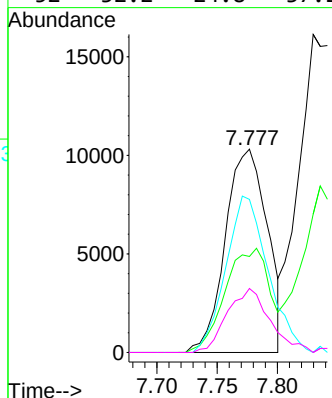
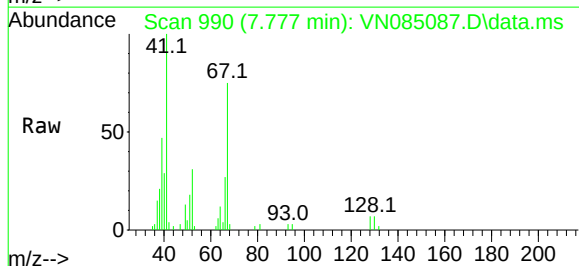
52 32.2 24.8 37.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#42

1,2-Dichloroethane

Concen: 21.202 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. 0.006 min

Lab File: VN085087.D

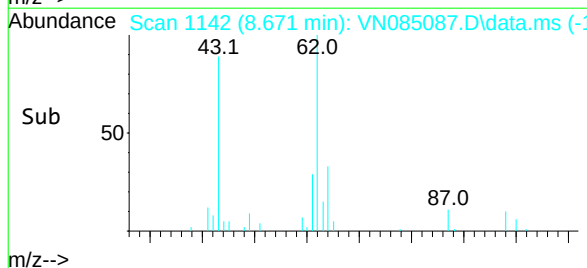
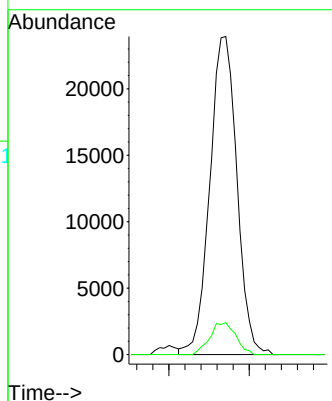
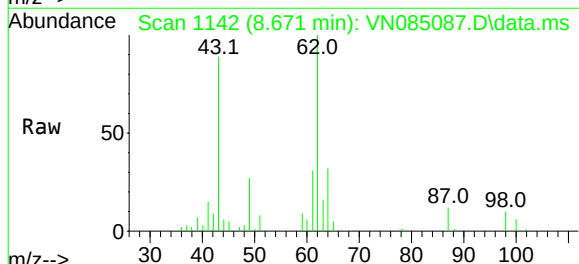
Acq: 04 Dec 2024 12:14

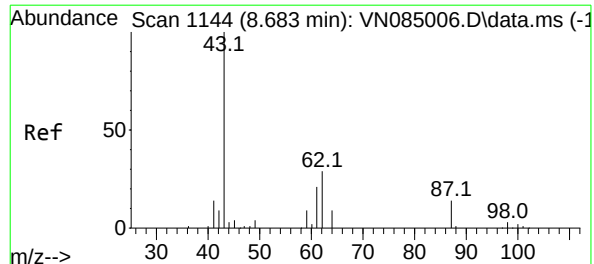
Tgt Ion: 62 Resp: 56049

Ion Ratio Lower Upper

62 100

98 9.6 0.0 18.2





#43

Isopropyl Acetate

Concen: 17.972 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

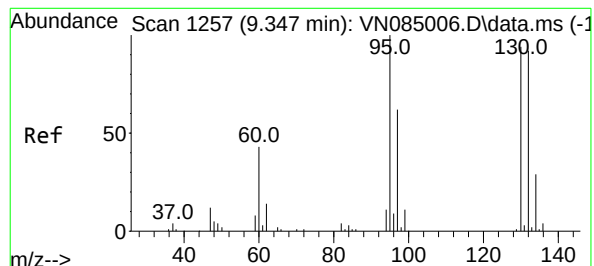
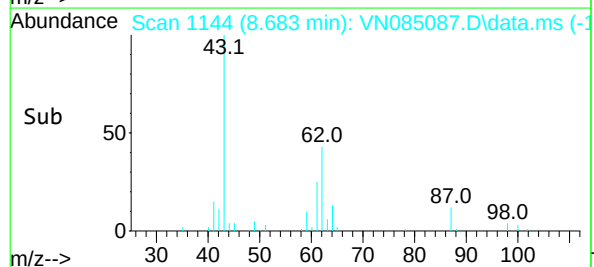
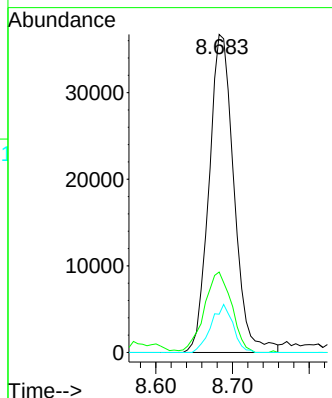
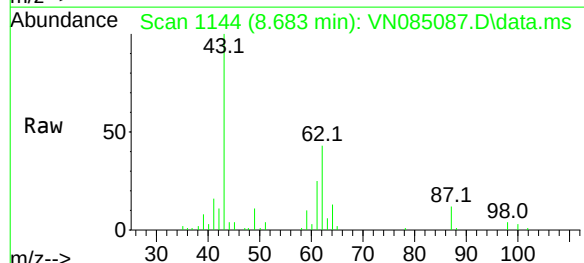
ClientSampleId :

VN1204WBS01

Tgt Ion:	43	Resp:	82915
Ion	Ratio	Lower	Upper
43	100		
61	27.8	20.6	30.8
87	13.3	11.0	16.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#44

Trichloroethene

Concen: 21.153 ug/l

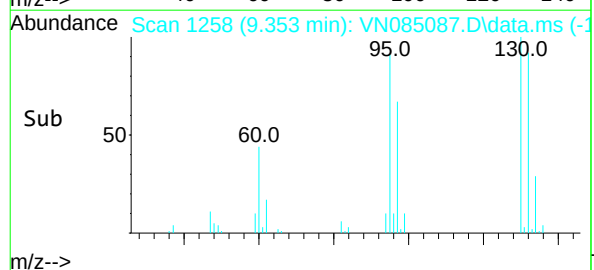
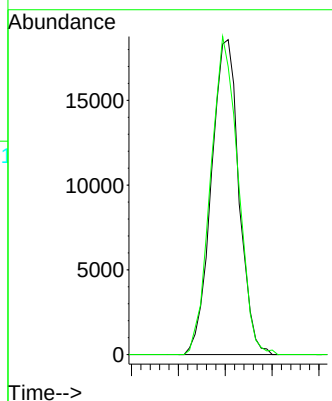
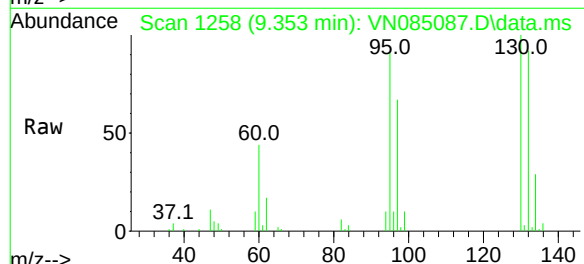
RT: 9.353 min Scan# 1258

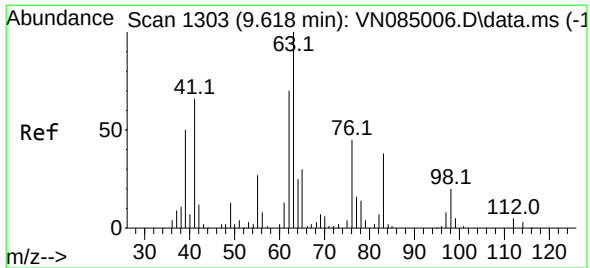
Delta R.T. 0.006 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Tgt Ion:	130	Resp:	37985
Ion	Ratio	Lower	Upper
130	100		
95	91.4	0.0	213.4





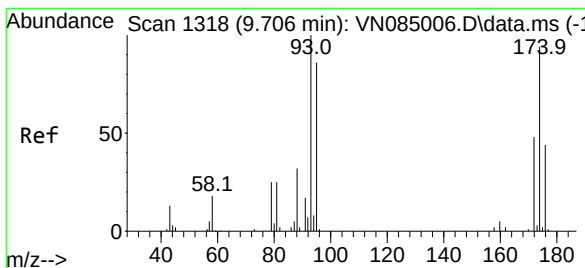
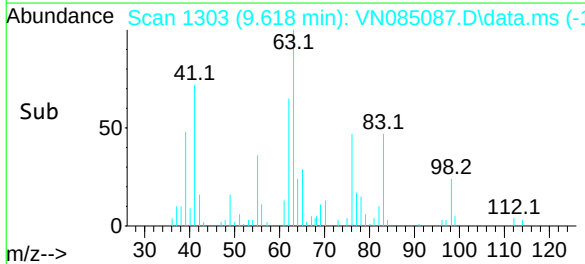
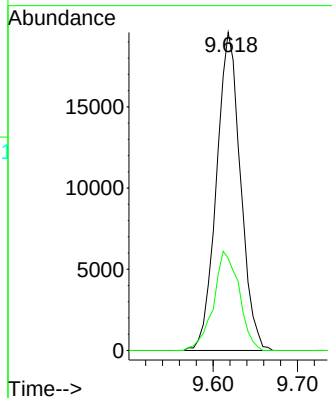
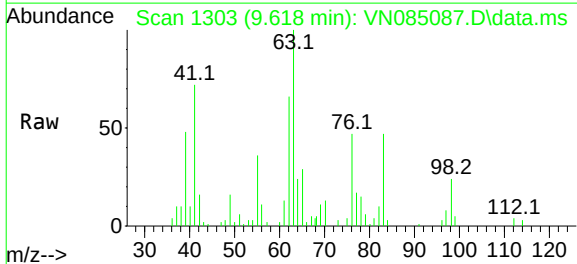
#45
1,2-Dichloropropane
Concen: 20.372 ug/l
RT: 9.618 min Scan# 1303
Delta R.T. -0.000 min
Lab File: VN085087.D
Acq: 04 Dec 2024 12:14

Instrument :
MSVOA_N
ClientSampleId :
VN1204WBS01

Tgt Ion: 63 Resp: 38773
Ion Ratio Lower Upper
63 100
65 29.0 24.0 36.0

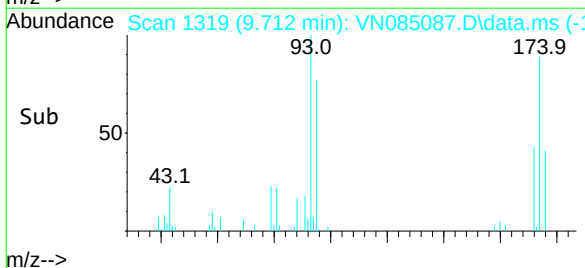
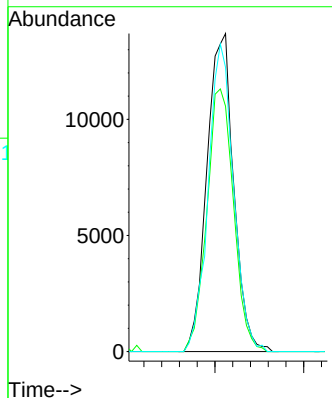
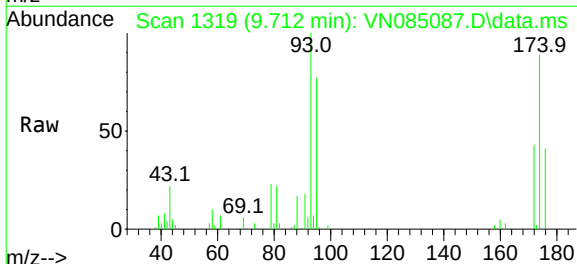
Manual Integrations
APPROVED

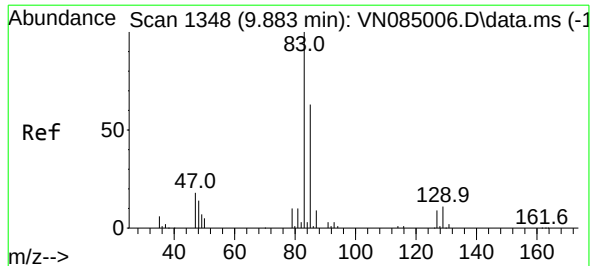
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#46
Dibromomethane
Concen: 21.709 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. 0.006 min
Lab File: VN085087.D
Acq: 04 Dec 2024 12:14

Tgt Ion: 93 Resp: 28709
Ion Ratio Lower Upper
93 100
95 82.5 66.2 99.4
174 91.3 74.9 112.3





#47

Bromodichloromethane

Concen: 21.198 ug/l

RT: 9.883 min Scan# 1313

Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

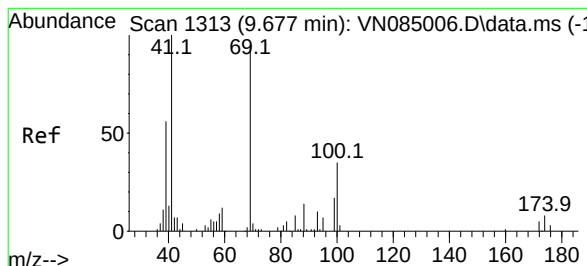
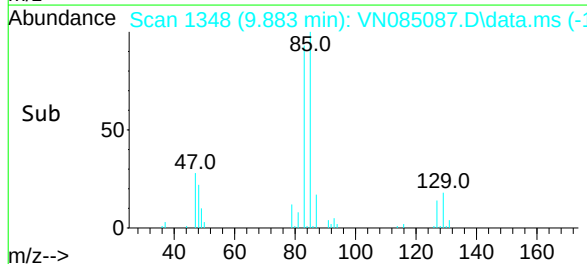
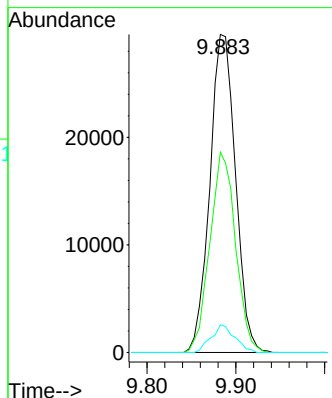
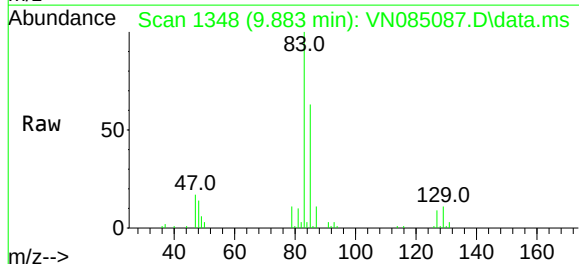
ClientSampleId :

VN1204WBS01

Tgt Ion:	83	Resp:	59414
Ion	Ratio	Lower	Upper
83	100		
85	63.0	50.5	75.7
127	8.7	7.1	10.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#48

Methyl methacrylate

Concen: 21.589 ug/l

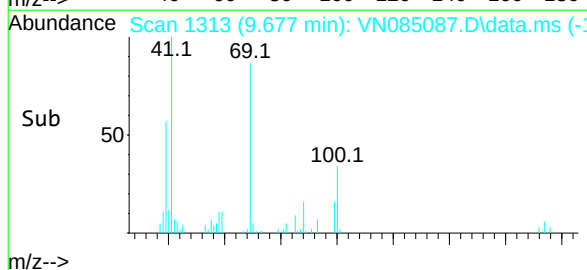
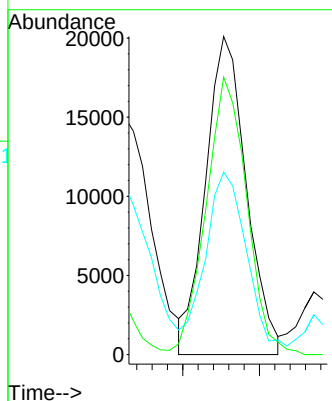
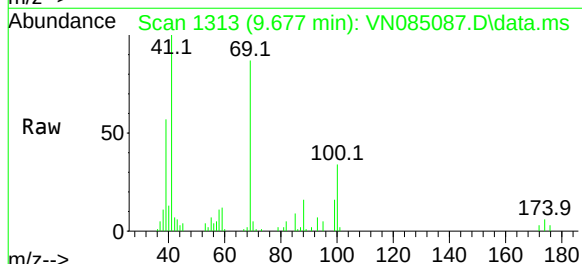
RT: 9.677 min Scan# 1313

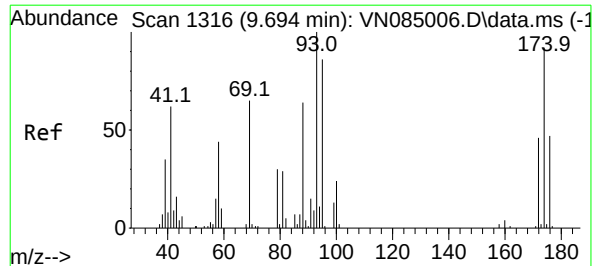
Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

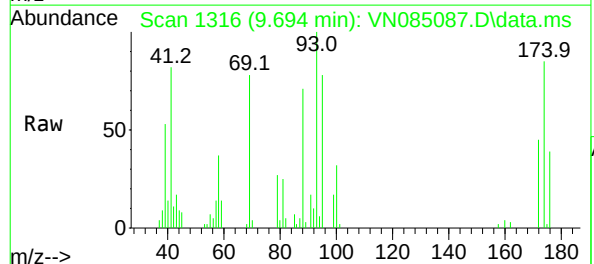
Tgt Ion:	41	Resp:	37064
Ion	Ratio	Lower	Upper
41	100		
69	87.0	73.2	109.8
39	59.4	46.2	69.4





#49
1,4-Dioxane
Concen: 434.295 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. -0.000 min
Lab File: VN085087.D
Acq: 04 Dec 2024 12:14

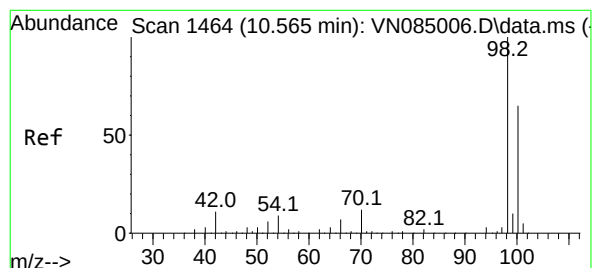
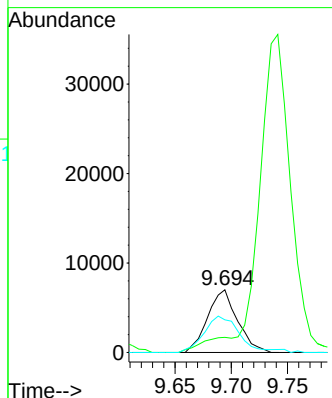
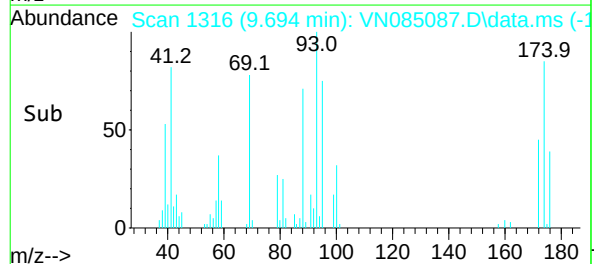
Instrument :
MSVOA_N
ClientSampleId :
VN1204WBS01



Tgt Ion: 88 Resp: 12936
Ion Ratio Lower Upper
88 100
43 0.0 16.7 25.1#
58 69.9 56.5 84.7

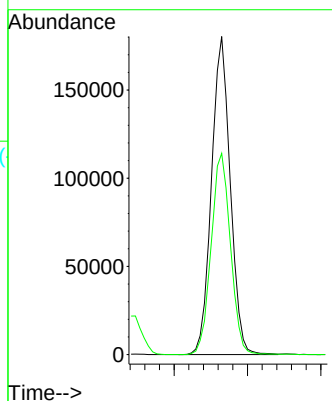
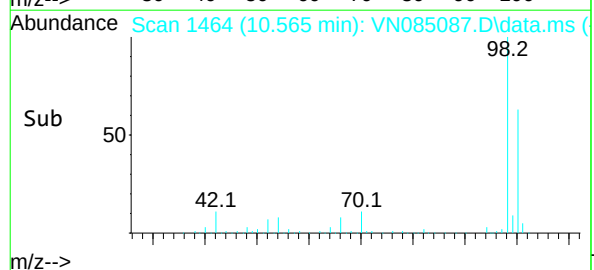
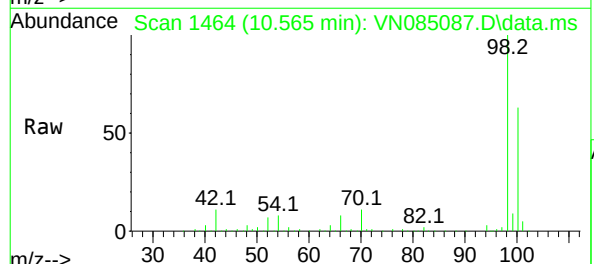
Manual Integrations
APPROVED

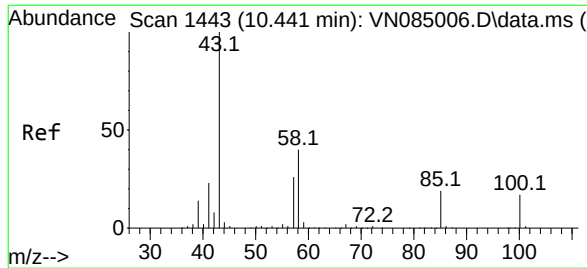
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#50
Toluene-d8
Concen: 49.587 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085087.D
Acq: 04 Dec 2024 12:14

Tgt Ion: 98 Resp: 320536
Ion Ratio Lower Upper
98 100
100 65.1 52.5 78.7





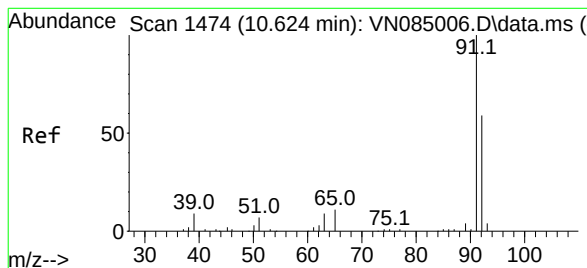
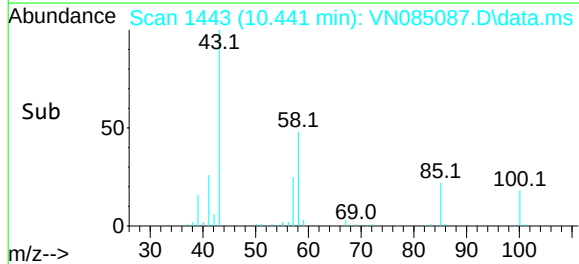
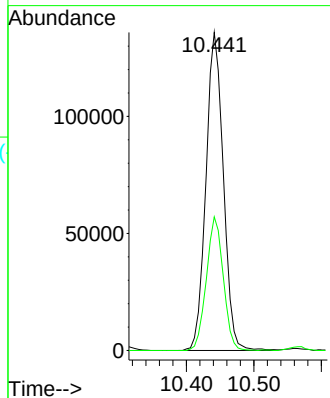
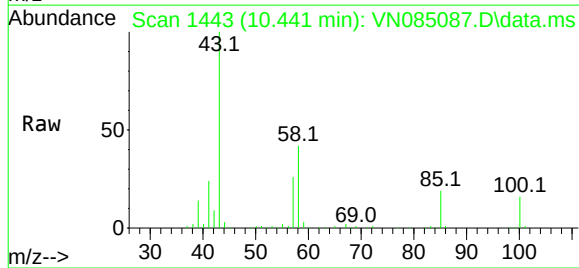
#51
4-Methyl-2-Pentanone
Concen: 115.583 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085087.D
Acq: 04 Dec 2024 12:14

Instrument :
MSVOA_N
ClientSampleId :
VN1204WBS01

Tgt Ion: 43 Resp: 243561
Ion Ratio Lower Upper
43 100
58 40.8 32.1 48.1

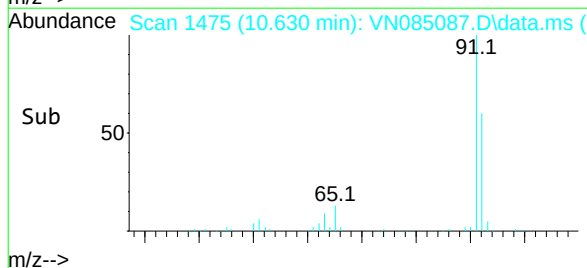
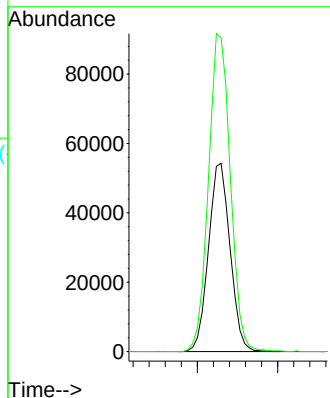
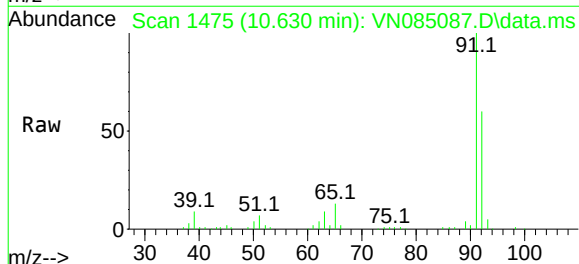
Manual Integrations
APPROVED

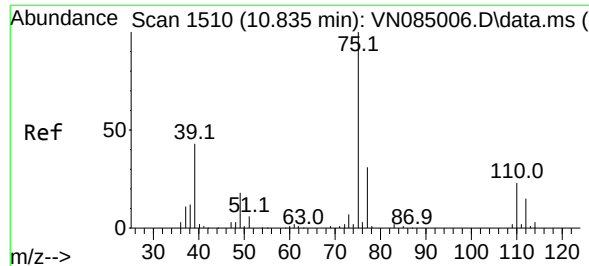
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#52
Toluene
Concen: 22.181 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN085087.D
Acq: 04 Dec 2024 12:14

Tgt Ion: 92 Resp: 101467
Ion Ratio Lower Upper
92 100
91 171.1 136.7 205.1





#53

t-1,3-Dichloropropene

Concen: 20.666 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

ClientSampleId :

VN1204WBS01

Tgt Ion: 75 Resp: 58073

Ion Ratio Lower Upper

75 100

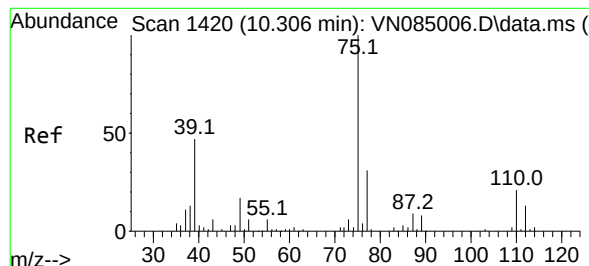
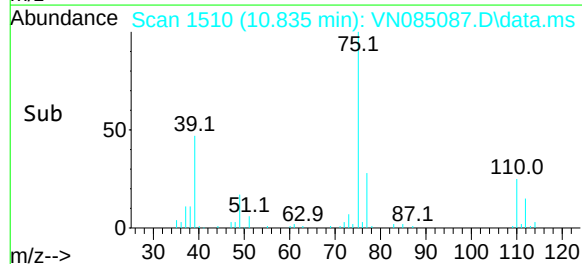
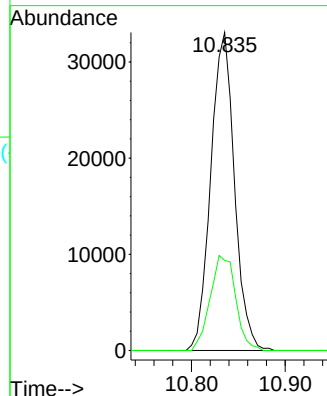
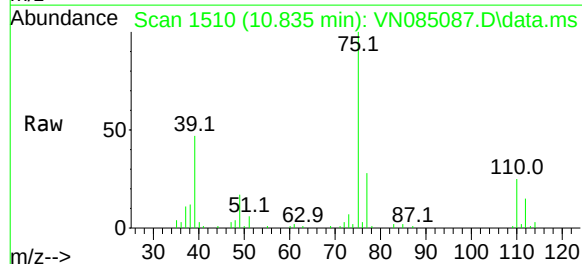
77 28.3 25.0 37.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#54

cis-1,3-Dichloropropene

Concen: 21.579 ug/l

RT: 10.306 min Scan# 1420

Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

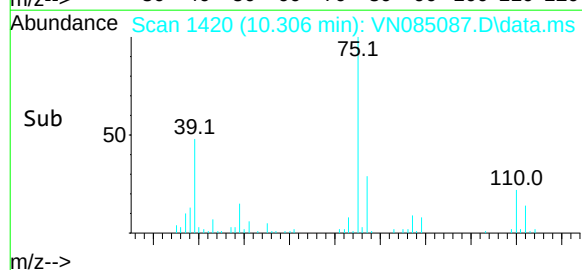
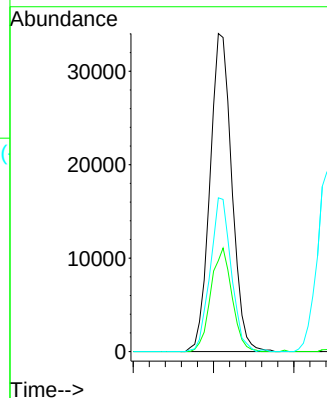
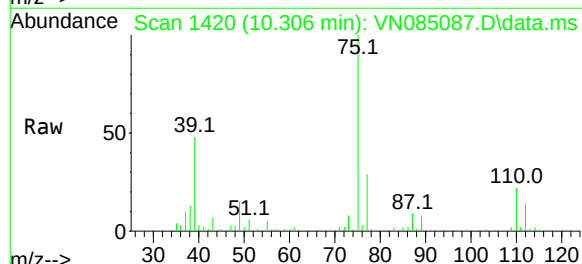
Tgt Ion: 75 Resp: 64329

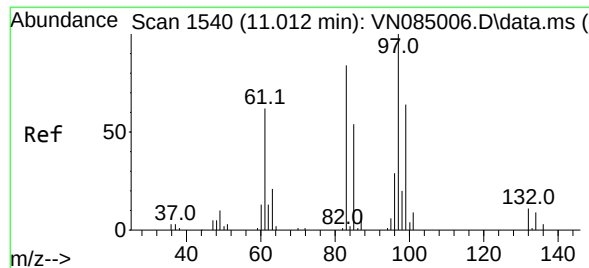
Ion Ratio Lower Upper

75 100

77 28.6 25.0 37.4

39 48.3 37.6 56.4





#55

1,1,2-Trichloroethane

Concen: 22.172 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

ClientSampleId :

VN1204WBS01

Tgt Ion: 97 Resp: 37778

Ion Ratio Lower Upper

97 100

83 84.8 67.4 101.2

85 54.0 43.1 64.7

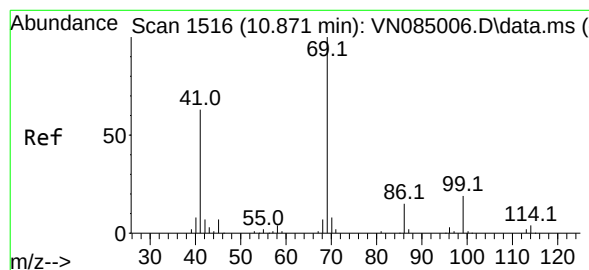
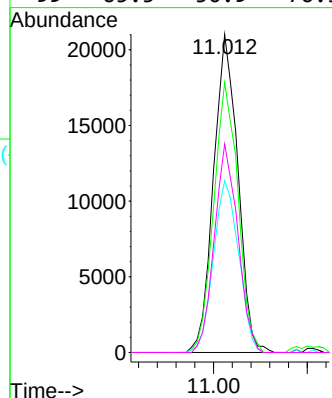
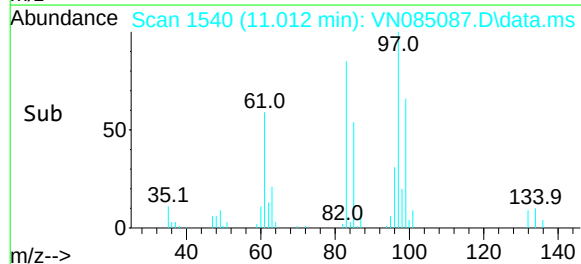
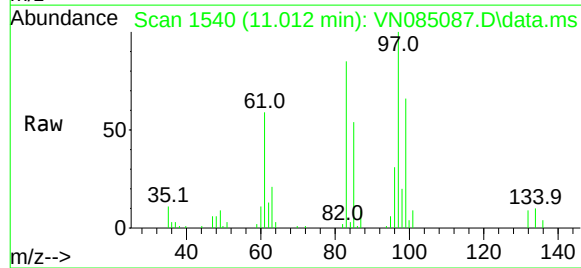
99 65.5 50.9 76.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#56

Ethyl methacrylate

Concen: 23.087 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

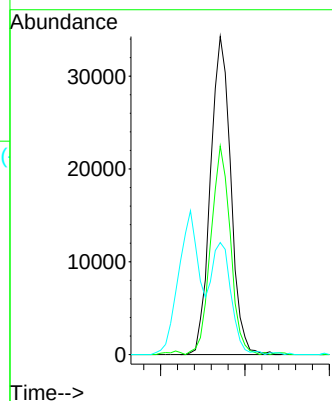
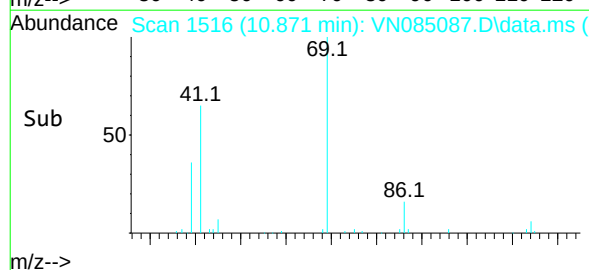
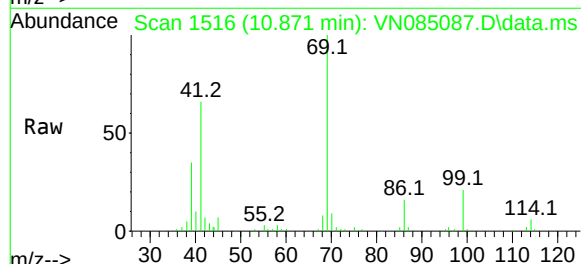
Tgt Ion: 69 Resp: 57482

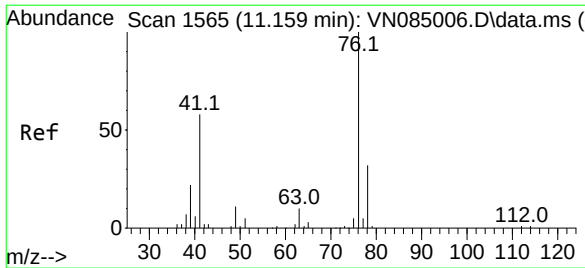
Ion Ratio Lower Upper

69 100

41 62.9 50.0 75.0

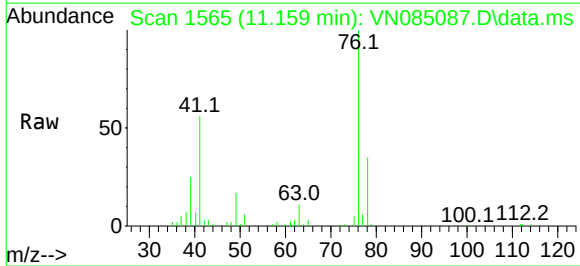
39 34.5 27.0 40.6





#57
1,3-Dichloropropane
Concen: 21.654 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.000 min
Lab File: VN085087.D
Acq: 04 Dec 2024 12:14

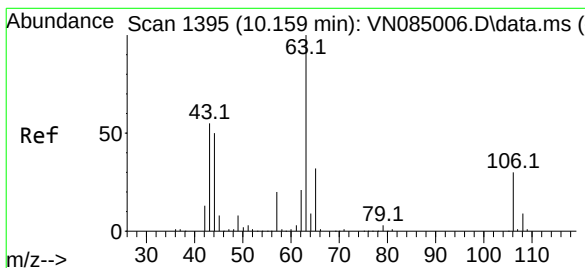
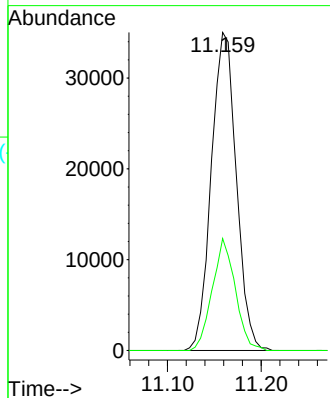
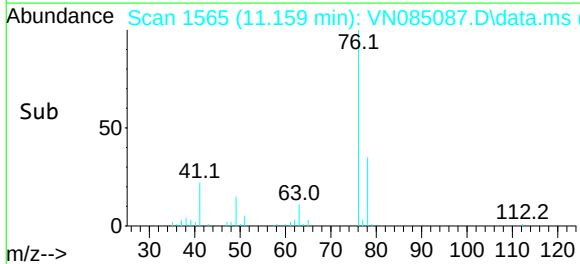
Instrument :
MSVOA_N
ClientSampleId :
VN1204WBS01



Tgt Ion: 76 Resp: 64936
Ion Ratio Lower Upper
76 100
78 32.4 26.1 39.1

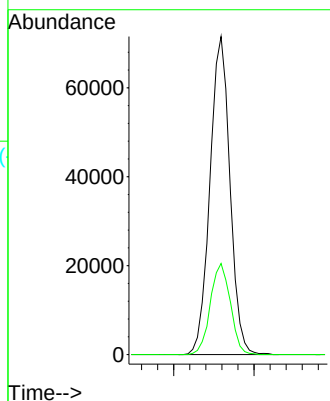
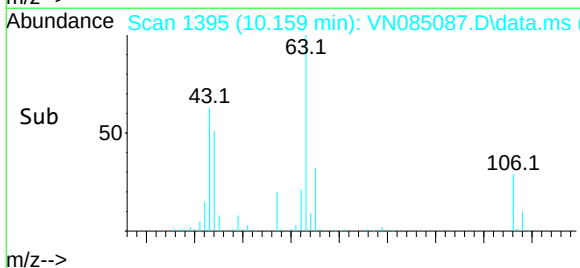
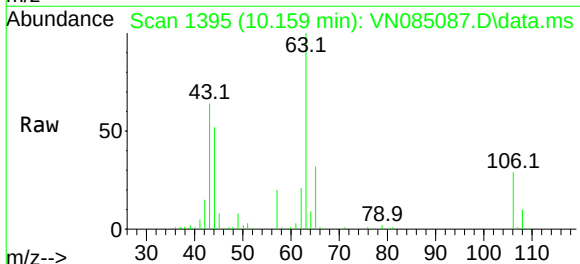
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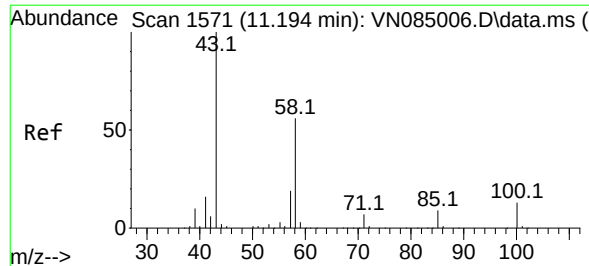
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#58
2-Chloroethyl Vinyl ether
Concen: 101.375 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN085087.D
Acq: 04 Dec 2024 12:14

Tgt Ion: 63 Resp: 123811
Ion Ratio Lower Upper
63 100
106 28.6 23.0 34.6





#59

2-Hexanone

Concen: 114.247 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

ClientSampleId :

VN1204WBS01

Tgt Ion: 43 Resp: 180056

Ion Ratio Lower Upper

43 100

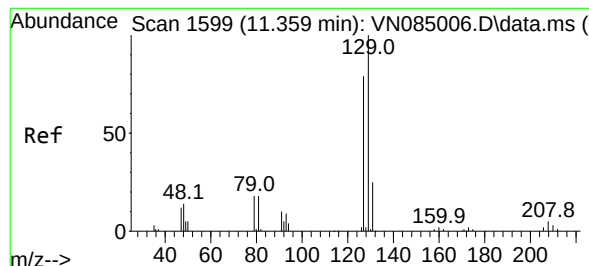
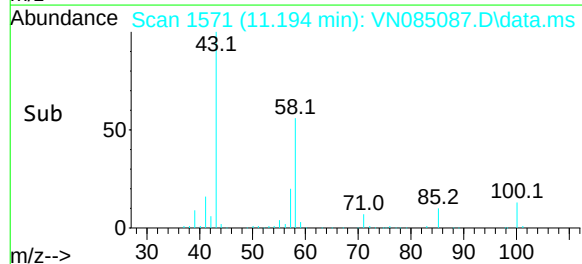
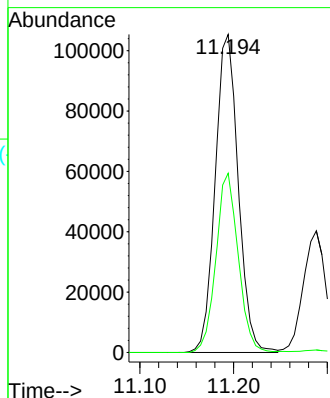
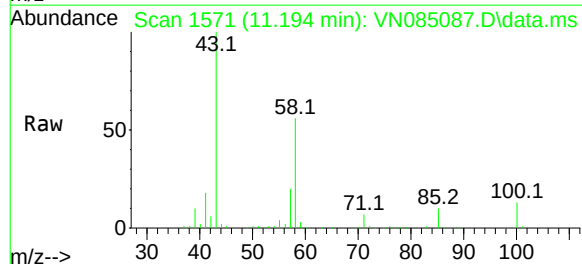
58 54.5 28.3 85.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#60

Dibromochloromethane

Concen: 21.152 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. -0.006 min

Lab File: VN085087.D

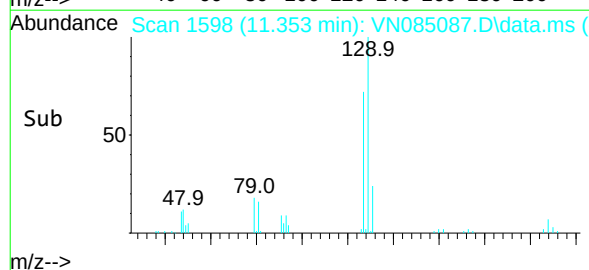
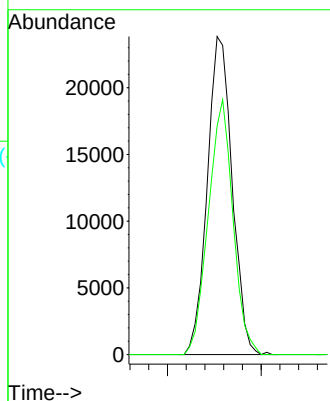
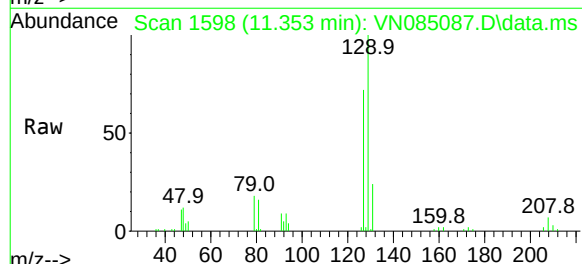
Acq: 04 Dec 2024 12:14

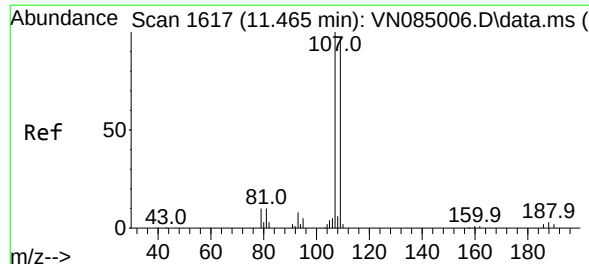
Tgt Ion:129 Resp: 44047

Ion Ratio Lower Upper

129 100

127 79.3 39.2 117.6





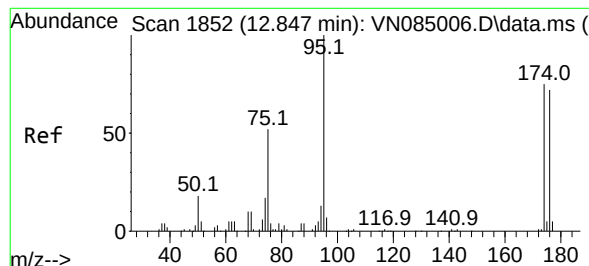
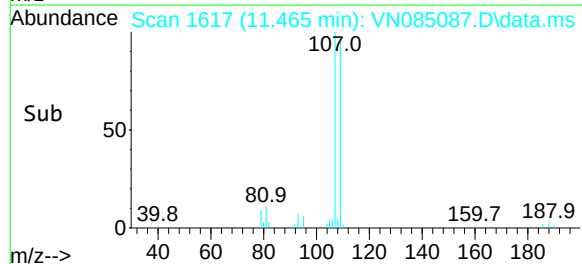
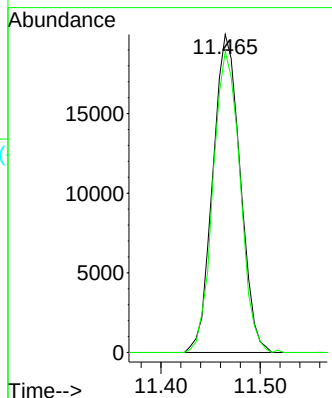
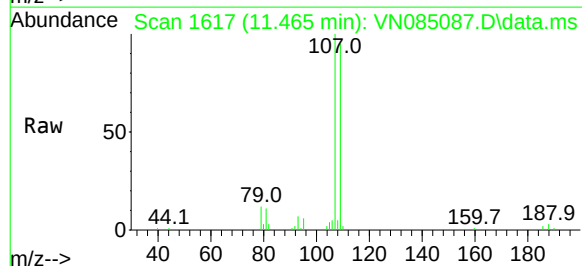
#61
1,2-Dibromoethane
Concen: 21.699 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085087.D
Acq: 04 Dec 2024 12:14

Instrument :
MSVOA_N
ClientSampleId :
VN1204WBS01

Tgt Ion: 107 Resp: 38263
Ion Ratio Lower Upper
107 100
109 93.5 76.1 114.1

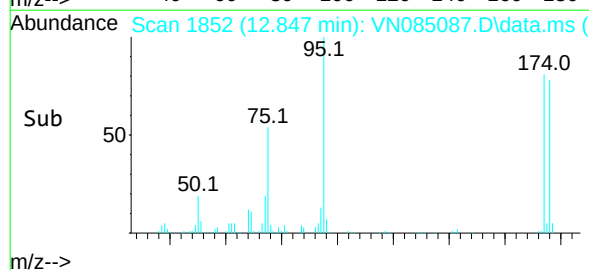
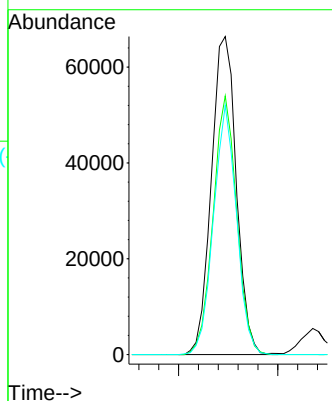
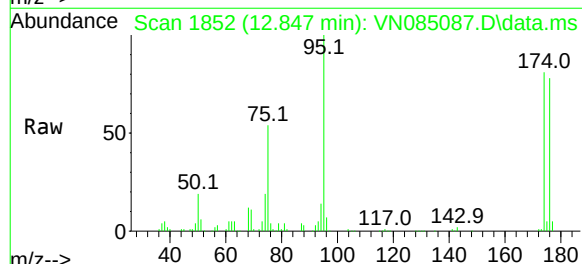
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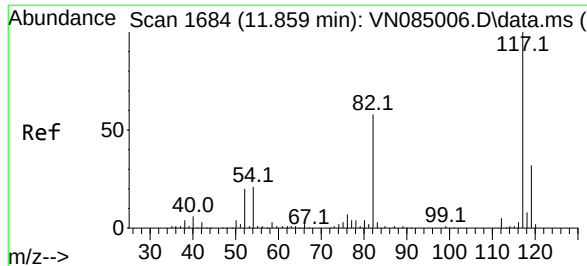
Reviewed By : John Carlone 12/05/2024
Supervised By : Mahesh Dadoda 12/05/2024



#62
4-Bromofluorobenzene
Concen: 48.137 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085087.D
Acq: 04 Dec 2024 12:14

Tgt Ion: 95 Resp: 116365
Ion Ratio Lower Upper
95 100
174 76.7 0.0 146.6
176 72.0 0.0 141.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1684

Delta R.T. 0.006 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

ClientSampleId :

VN1204WBS01

Tgt Ion:117 Resp: 232064

Ion Ratio Lower Upper

117 100

82 53.9 46.0 69.0

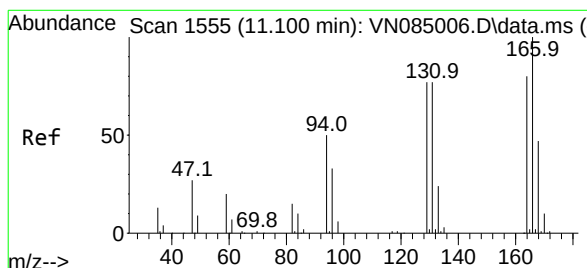
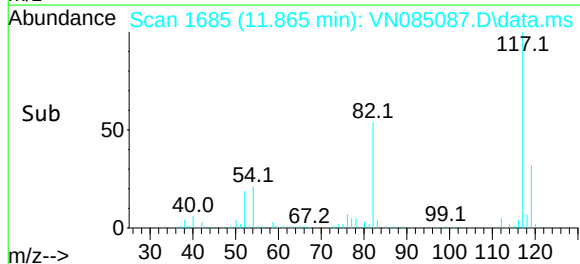
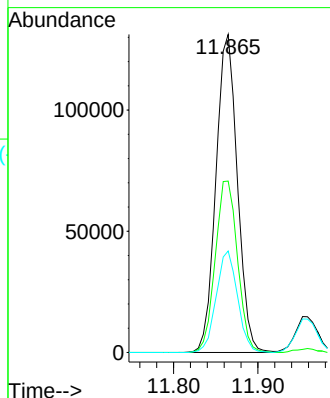
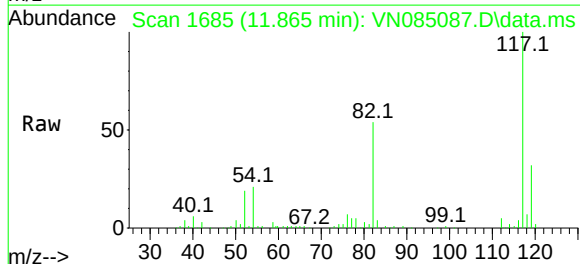
119 31.9 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#64

Tetrachloroethene

Concen: 21.661 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Tgt Ion:164 Resp: 33872

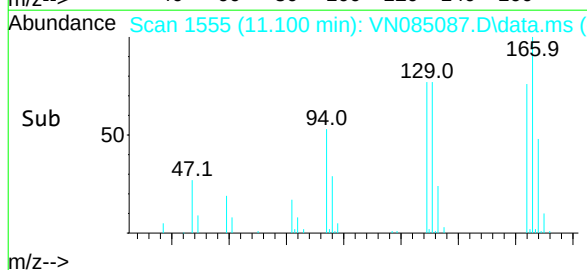
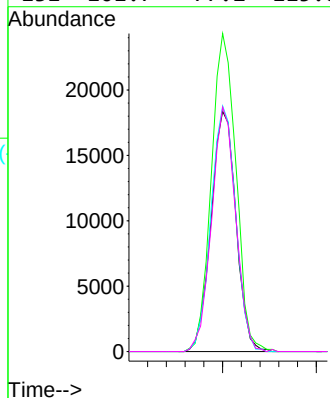
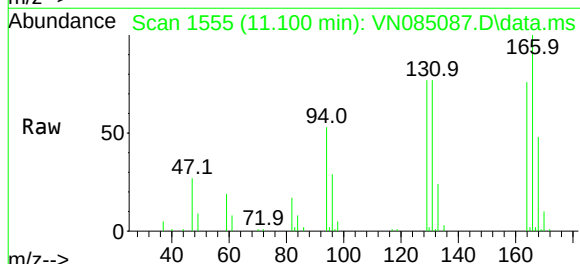
Ion Ratio Lower Upper

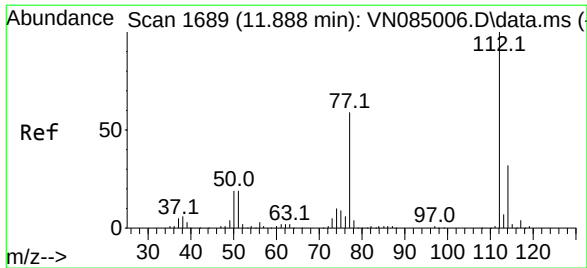
164 100

166 132.3 100.6 151.0

129 102.2 77.7 116.5

131 101.7 77.2 115.8





#65

Chlorobenzene

Concen: 20.611 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

ClientSampleId :

VN1204WBS01

Tgt Ion:112 Resp: 108472

Ion Ratio Lower Upper

112 100

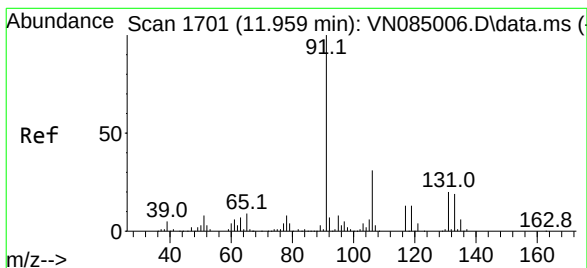
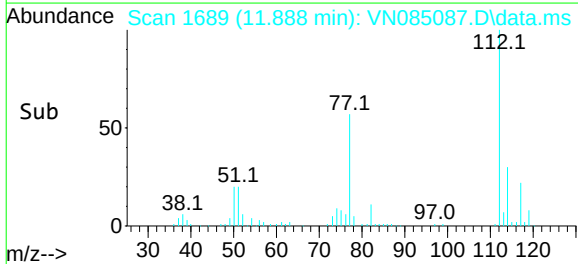
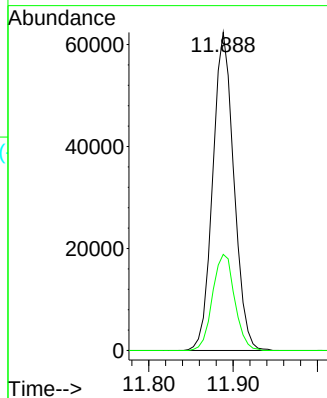
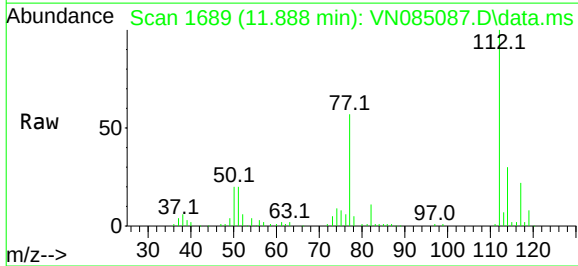
114 30.2 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#66

1,1,1,2-Tetrachloroethane

Concen: 20.991 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

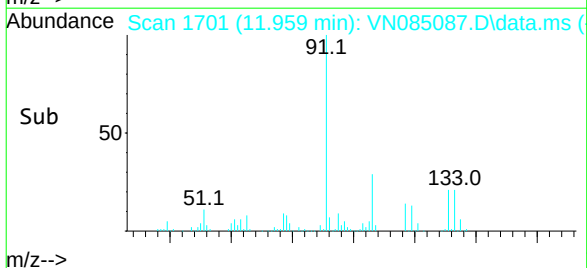
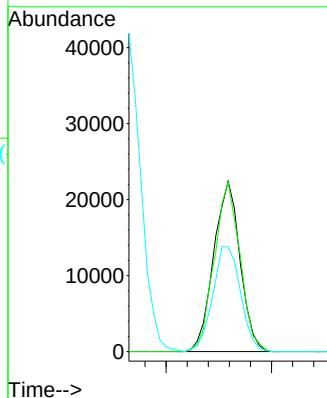
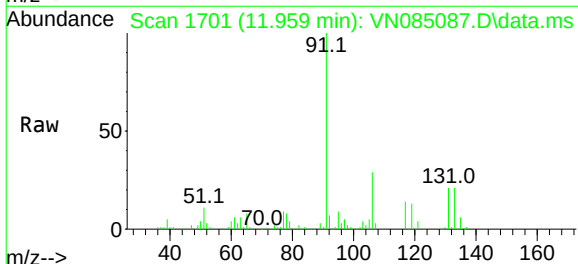
Tgt Ion:131 Resp: 38897

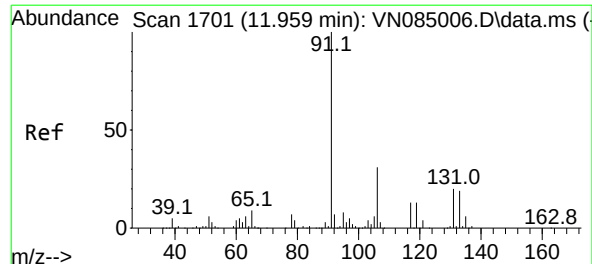
Ion Ratio Lower Upper

131 100

133 97.1 47.8 143.4

119 64.9 32.1 96.3





#67

Ethyl Benzene

Concen: 21.284 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

ClientSampleId :

VN1204WBS01

Tgt Ion: 91 Resp: 181732

Ion Ratio Lower Upper

91 100

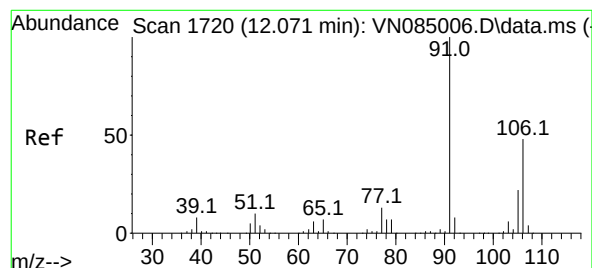
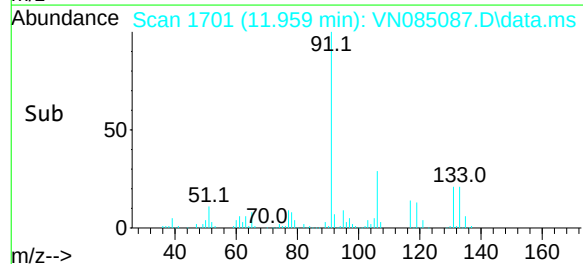
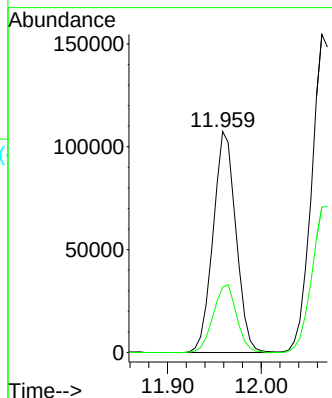
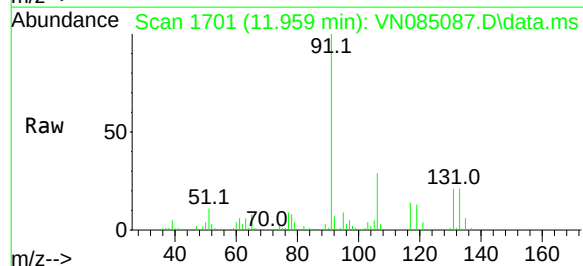
106 29.5 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#68

m/p-Xylenes

Concen: 42.838 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN085087.D

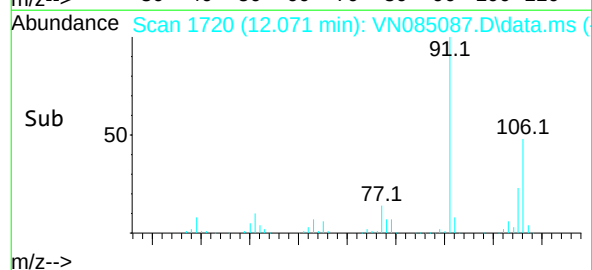
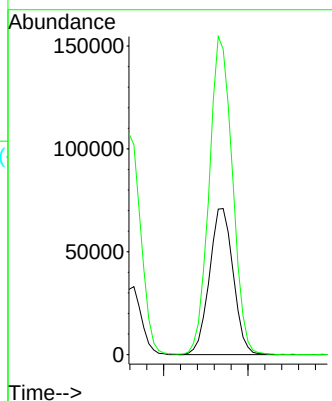
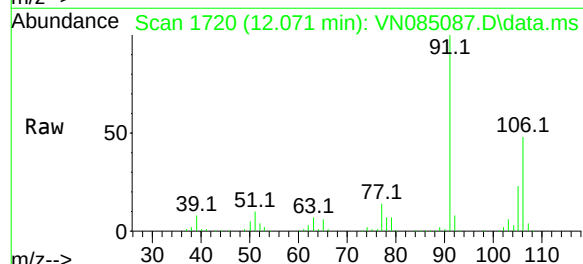
Acq: 04 Dec 2024 12:14

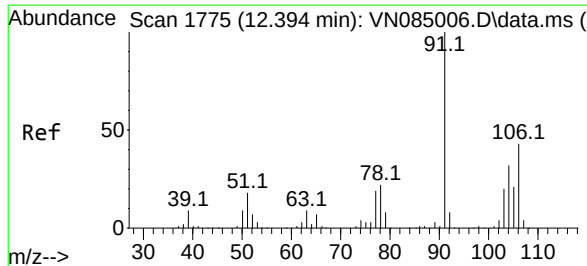
Tgt Ion:106 Resp: 139256

Ion Ratio Lower Upper

106 100

91 213.2 168.0 252.0





#69

o-Xylene

Concen: 21.521 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

ClientSampleId :

VN1204WBS01

Tgt Ion:106 Resp: 66548

Ion Ratio Lower Upper

106 100

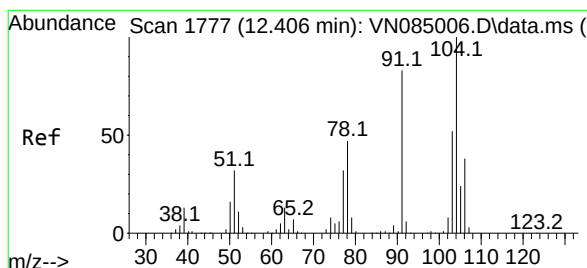
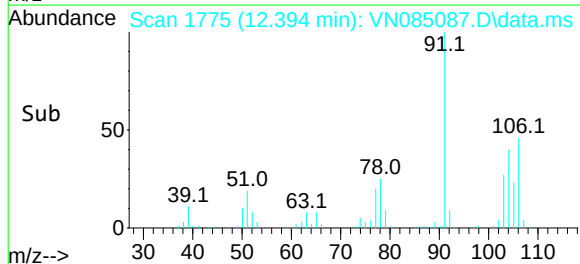
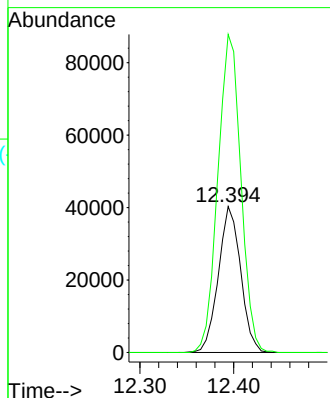
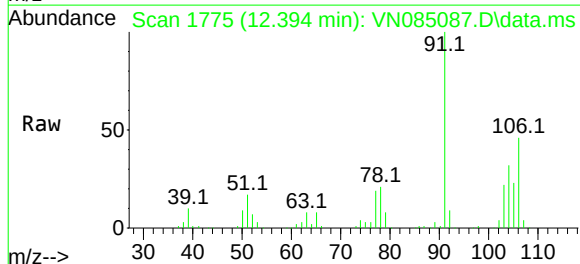
91 224.6 110.7 331.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#70

Styrene

Concen: 21.796 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

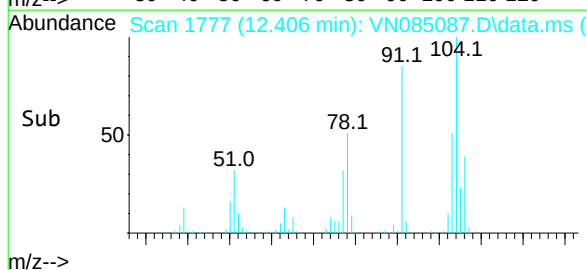
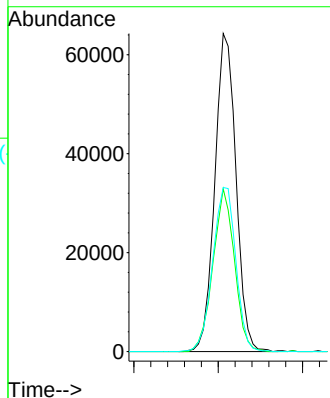
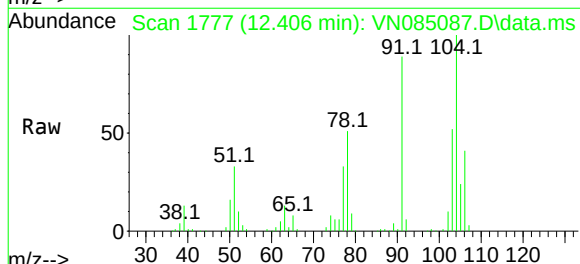
Tgt Ion:104 Resp: 112085

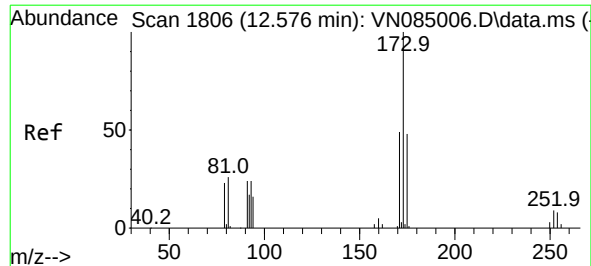
Ion Ratio Lower Upper

104 100

78 52.0 42.3 63.5

103 56.4 44.2 66.2





#71

Bromoform

Concen: 21.209 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

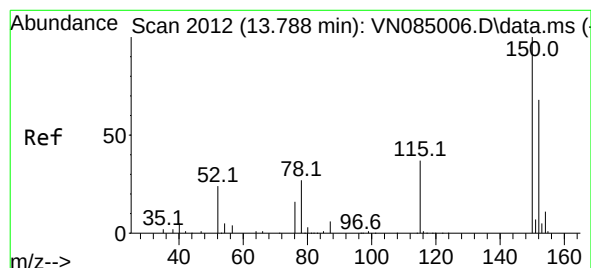
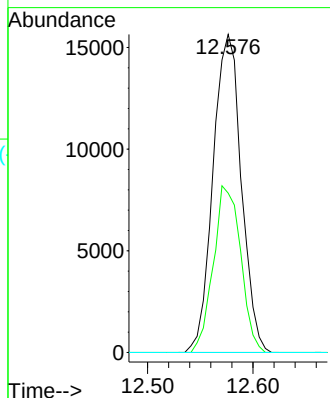
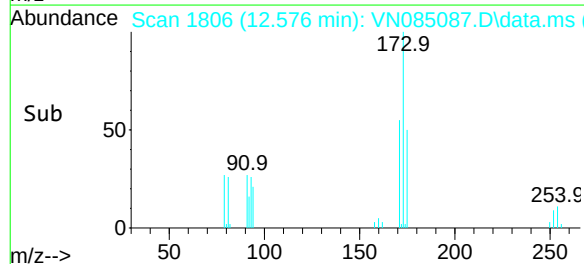
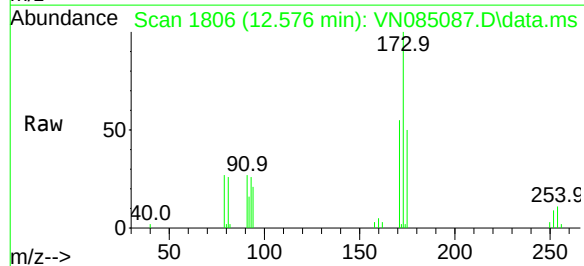
ClientSampleId :

VN1204WBS01

Tgt Ion:	173	Resp:	29172
Ion Ratio	Lower	Upper	
173	100		
175	50.5	23.8	71.2
254	0.0	0.0	0.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

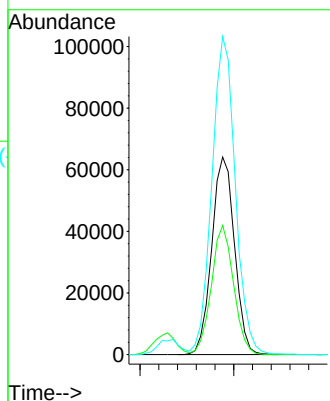
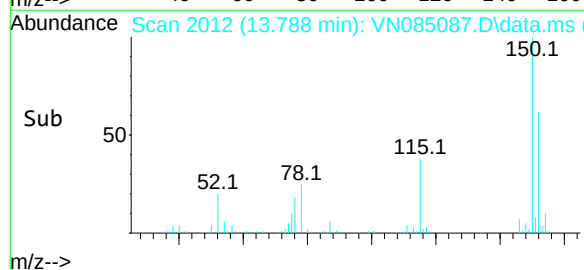
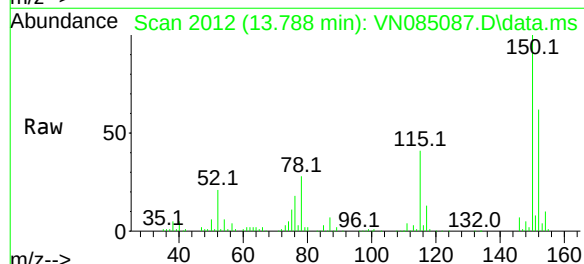
RT: 13.788 min Scan# 2012

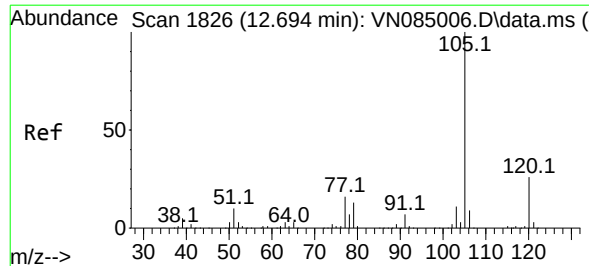
Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Tgt Ion:	152	Resp:	108141
Ion Ratio	Lower	Upper	
152	100		
115	63.7	31.7	95.1
150	166.0	0.0	351.4





#73

Isopropylbenzene

Concen: 22.550 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

ClientSampleId :

VN1204WBS01

Tgt Ion: 105 Resp: 172034

Ion Ratio Lower Upper

105 100

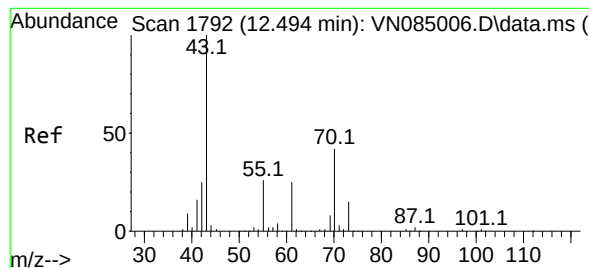
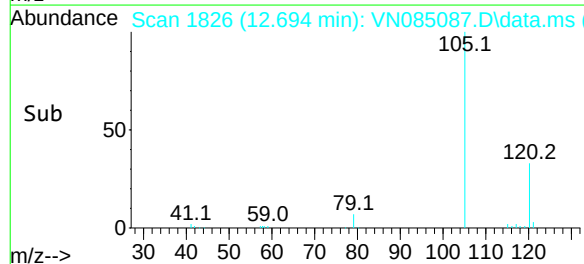
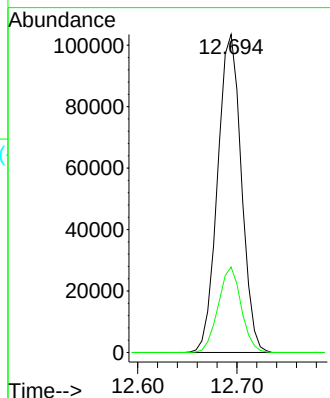
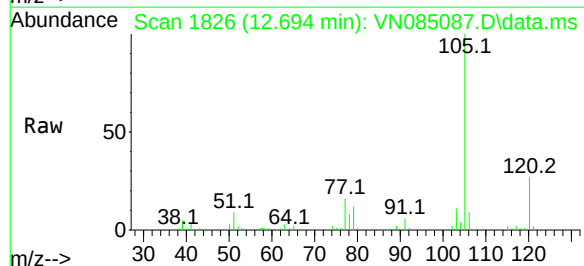
120 26.0 13.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#74

N-ethyl acetate

Concen: 22.168 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Tgt Ion: 43 Resp: 69690

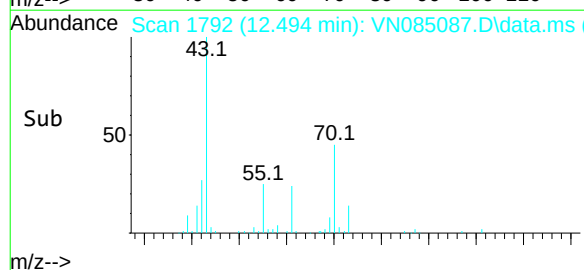
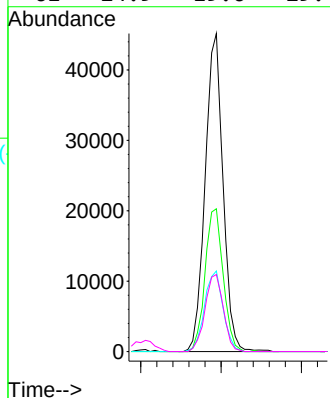
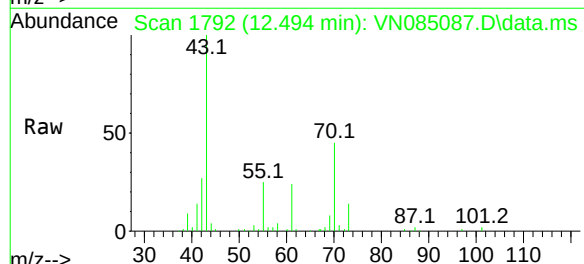
Ion Ratio Lower Upper

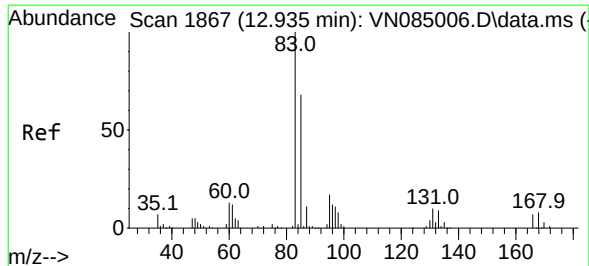
43 100

70 45.5 34.6 51.8

55 26.4 20.5 30.7

61 24.9 19.6 29.4





#75

1,1,2,2-Tetrachloroethane

Concen: 20.616 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

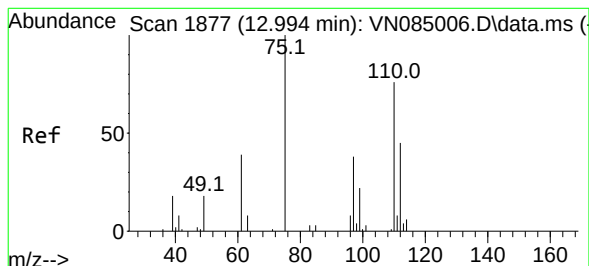
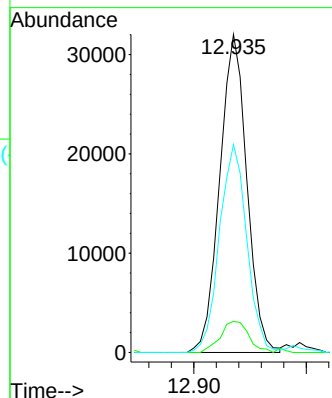
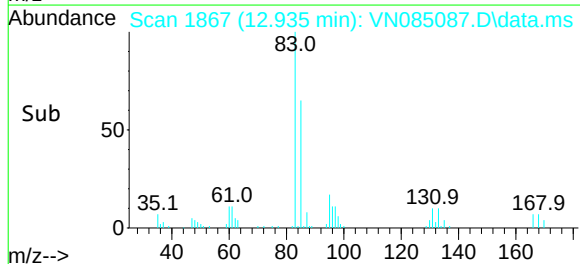
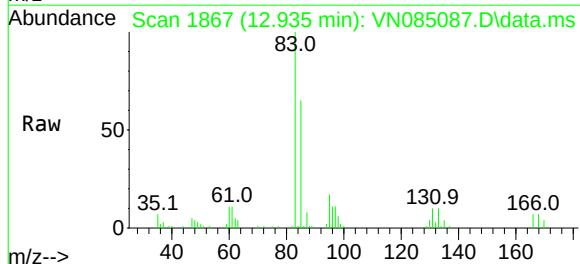
ClientSampleId :

VN1204WBS01

Tgt Ion:	83	Resp:	53708
Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.1	15.4
85	65.9	32.1	96.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#76

1,2,3-Trichloropropane

Concen: 20.859 ug/l m

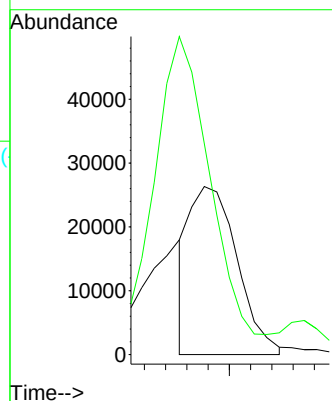
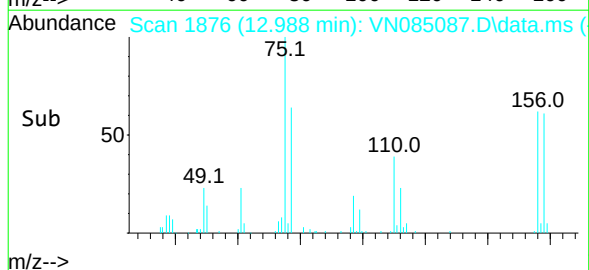
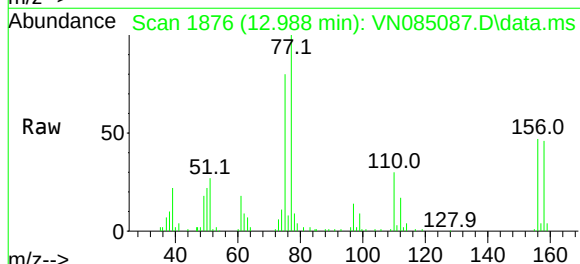
RT: 12.988 min Scan# 1876

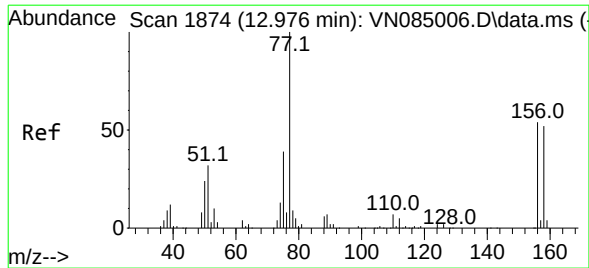
Delta R.T. -0.006 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

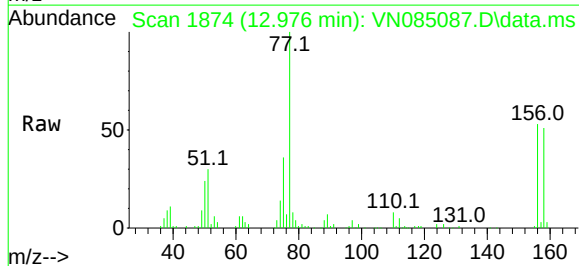
Tgt Ion:	75	Resp:	41030
Ion	Ratio	Lower	Upper
75	100		
77	230.5	109.1	327.4





Bromobenzene
 Concen: 21.585 ug/l
 RT: 12.976 min Scan# 1874
 Delta R.T. -0.000 min
 Lab File: VN085087.D
 Acq: 04 Dec 2024 12:14

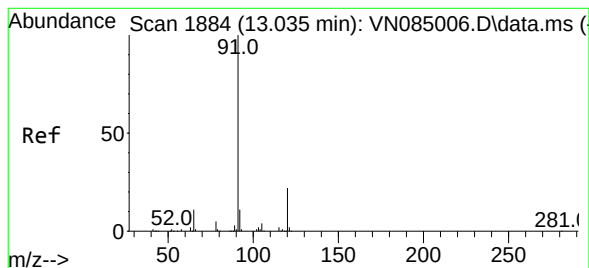
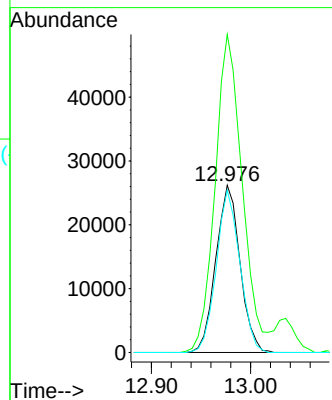
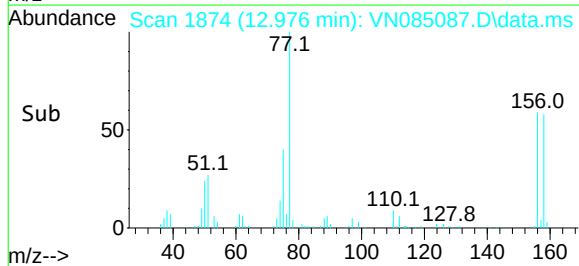
Instrument : MSVOA_N
 ClientSampleId : VN1204WBS01



Tgt Ion: 156 Resp: 44314
 Ion Ratio Lower Upper
 156 100
 77 213.5 107.2 321.6
 158 94.4 48.5 145.6

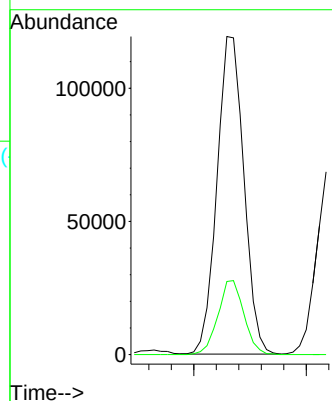
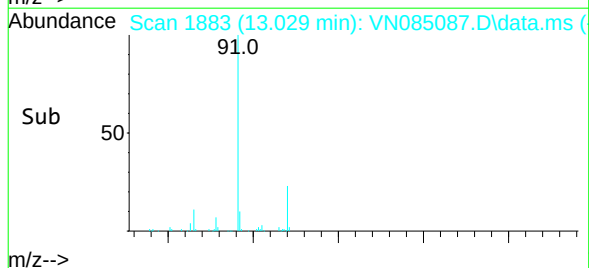
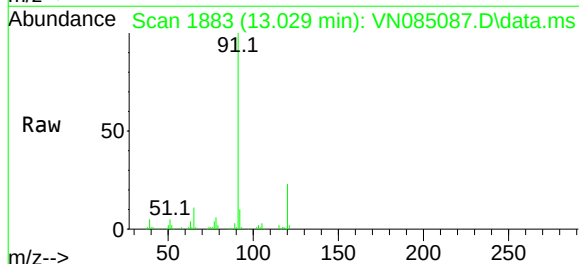
Manual Integrations
 APPROVED

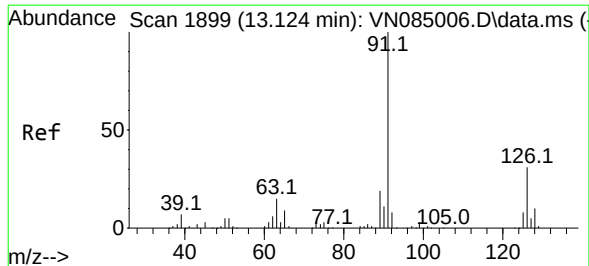
Reviewed By :John Carlone 12/05/2024
 Supervised By :Mahesh Dadoda 12/05/2024



n-propylbenzene
 Concen: 22.486 ug/l
 RT: 13.029 min Scan# 1883
 Delta R.T. -0.006 min
 Lab File: VN085087.D
 Acq: 04 Dec 2024 12:14

Tgt Ion: 91 Resp: 197862
 Ion Ratio Lower Upper
 91 100
 120 22.5 11.3 33.9





#79

2-Chlorotoluene

Concen: 21.470 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

ClientSampleId :

VN1204WBS01

Tgt Ion: 91 Resp: 126114

Ion Ratio Lower Upper

91 100

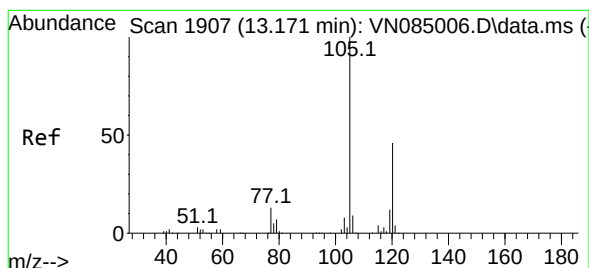
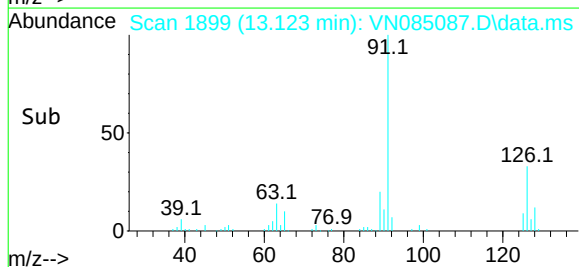
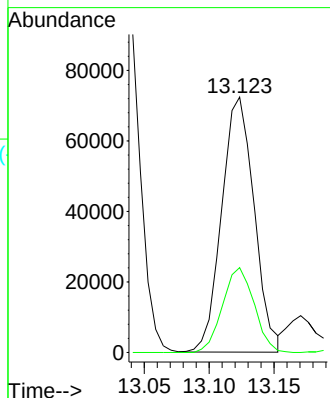
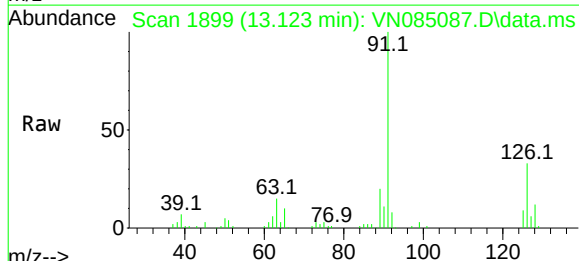
126 32.2 16.1 48.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#80

1,3,5-Trimethylbenzene

Concen: 23.084 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN085087.D

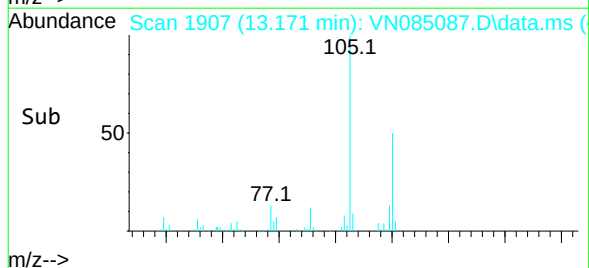
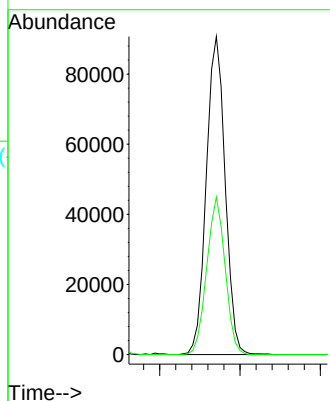
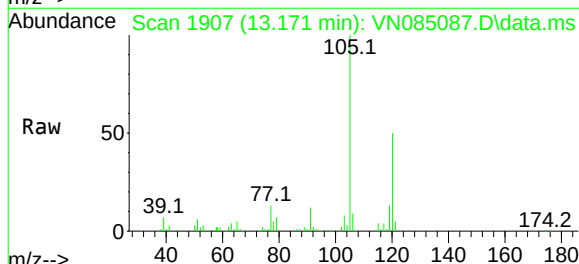
Acq: 04 Dec 2024 12:14

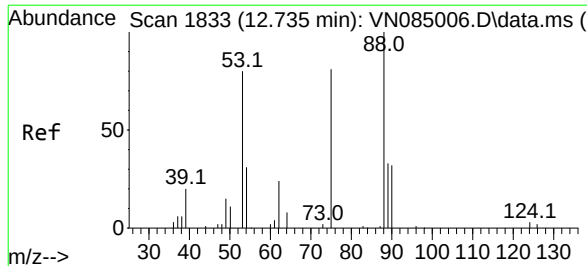
Tgt Ion:105 Resp: 147777

Ion Ratio Lower Upper

105 100

120 48.3 23.6 71.0





#81

trans-1,4-Dichloro-2-butene

Concen: 20.134 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

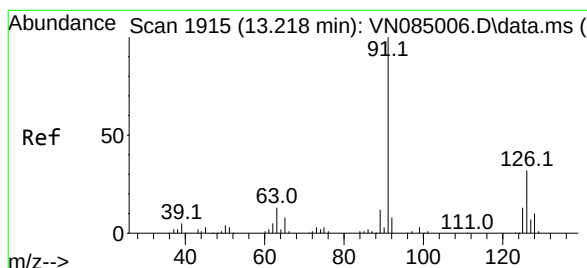
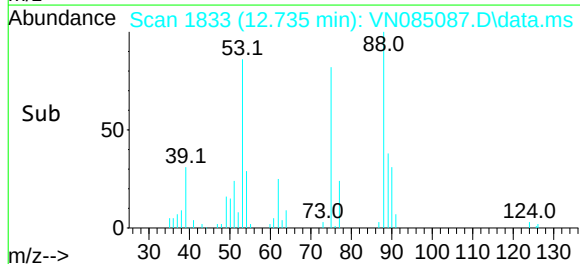
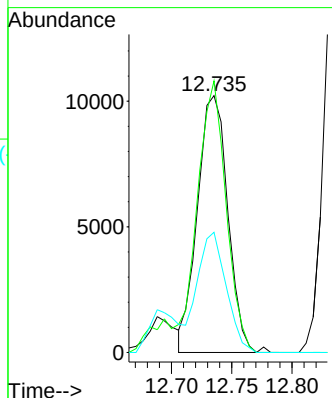
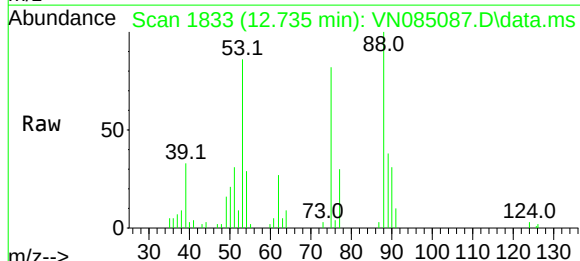
Instrument :

MSVOA_N

ClientSampleId :

VN1204WBS01

Tgt Ion:	75	Resp:	17940
Ion Ratio	Lower	Upper	
75	100		
53	110.9	78.2	117.4
89	43.7	37.9	56.9

Manual Integrations
APPROVEDReviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024

#82

4-Chlorotoluene

Concen: 20.415 ug/l

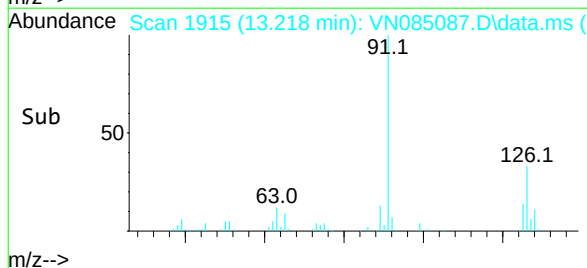
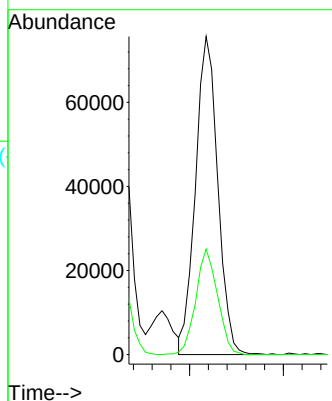
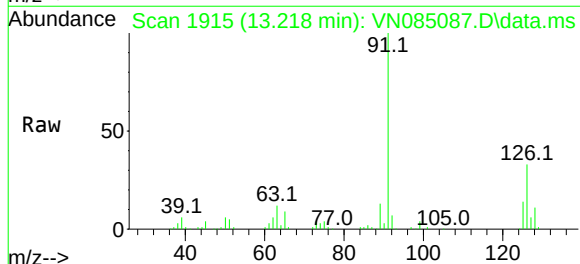
RT: 13.218 min Scan# 1915

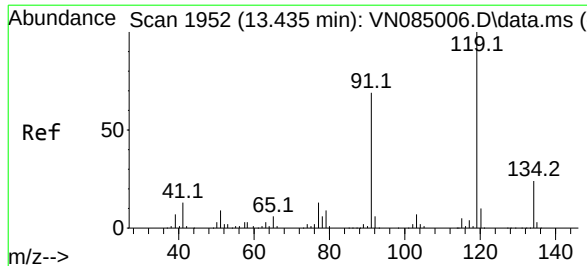
Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Tgt Ion:	91	Resp:	124835
Ion Ratio	Lower	Upper	
91	100		
126	32.4	16.1	48.3





#83

tert-Butylbenzene

Concen: 22.269 ug/l

RT: 13.435 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

ClientSampleId :

VN1204WBS01

Tgt Ion:119 Resp: 122660

Ion Ratio Lower Upper

119 100

91 71.3 35.1 105.5

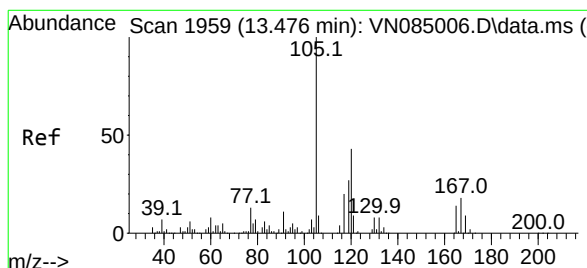
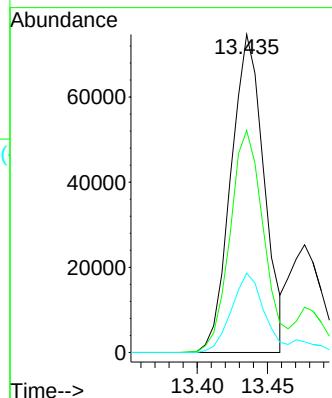
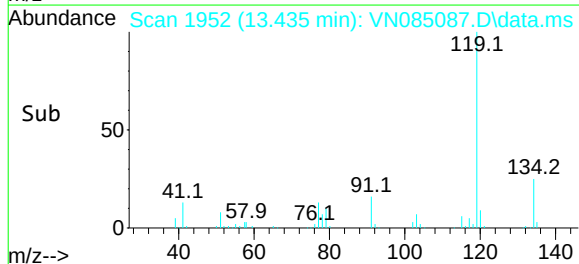
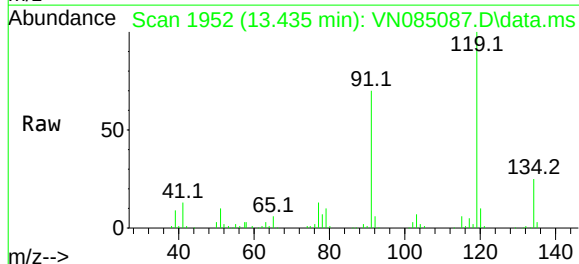
134 24.5 12.1 36.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#84

1,2,4-Trimethylbenzene

Concen: 22.529 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. -0.000 min

Lab File: VN085087.D

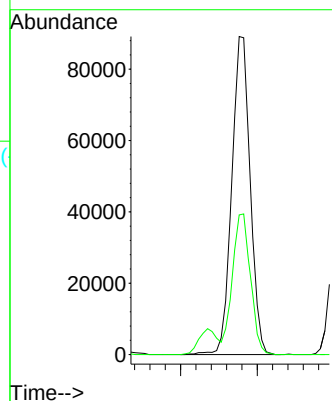
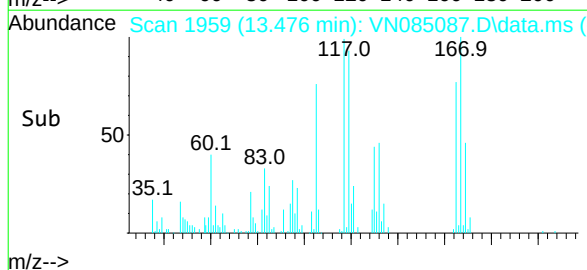
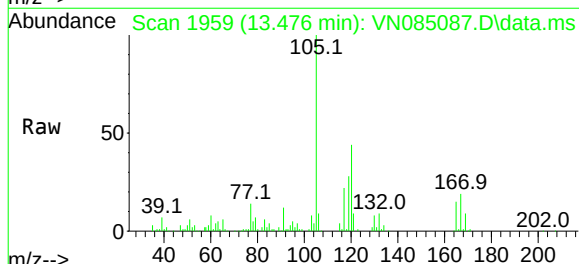
Acq: 04 Dec 2024 12:14

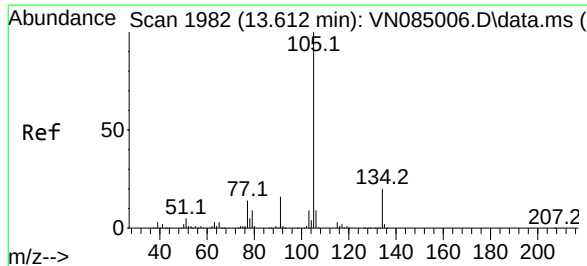
Tgt Ion:105 Resp: 148458

Ion Ratio Lower Upper

105 100

120 43.5 21.8 65.4





#85

sec-Butylbenzene

Concen: 22.302 ug/l

RT: 13.612 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

ClientSampleId :

VN1204WBS01

Tgt Ion:105 Resp: 165944

Ion Ratio Lower Upper

105 100

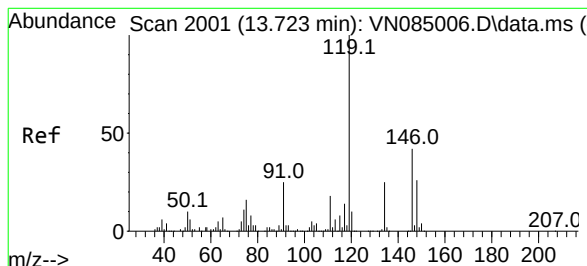
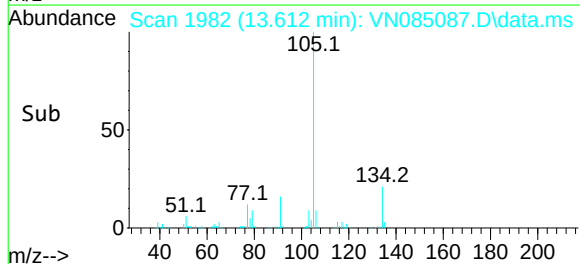
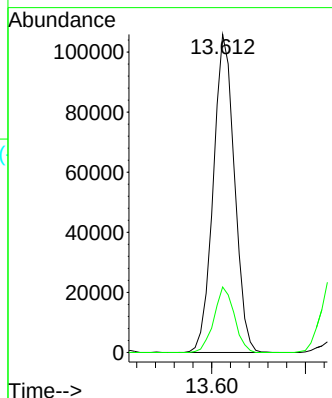
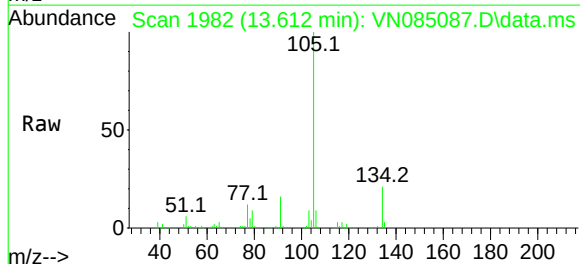
134 19.8 9.8 29.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#86

p-Isopropyltoluene

Concen: 22.870 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

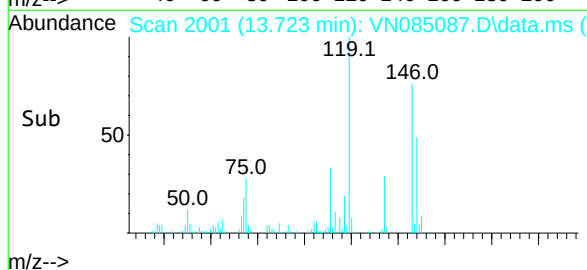
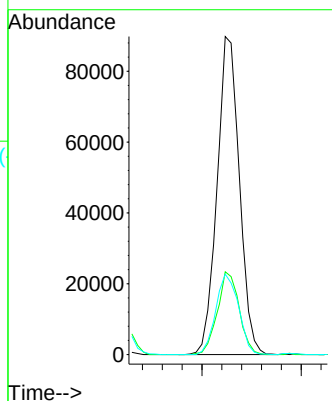
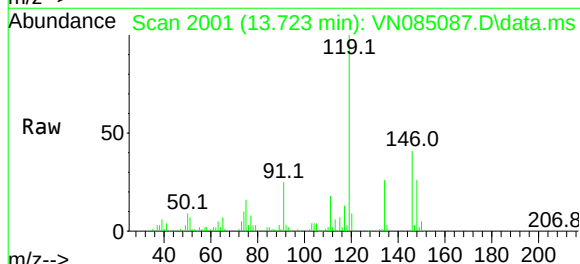
Tgt Ion:119 Resp: 140473

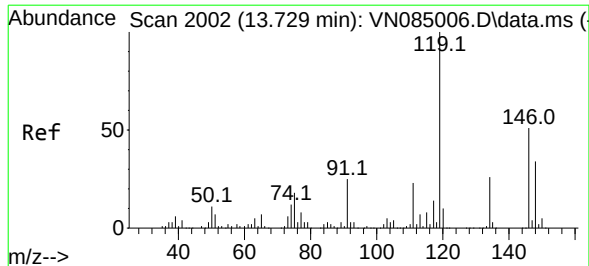
Ion Ratio Lower Upper

119 100

134 25.4 13.0 39.0

91 25.8 12.8 38.4





#87

1,3-Dichlorobenzene

Concen: 18.934 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

ClientSampleId :

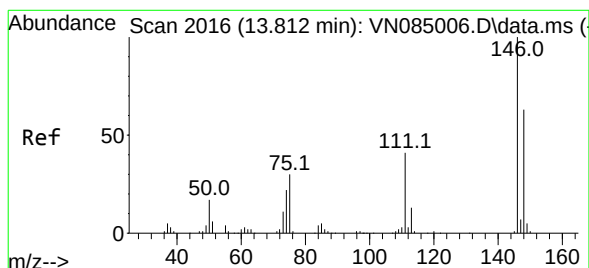
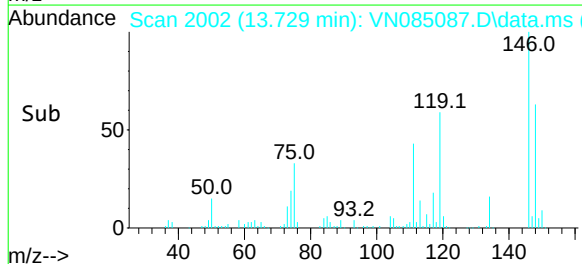
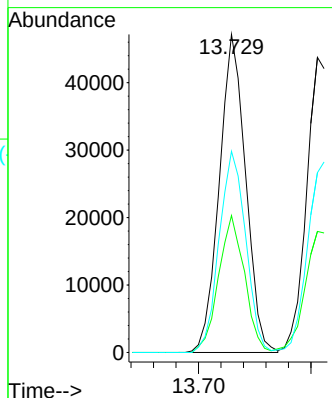
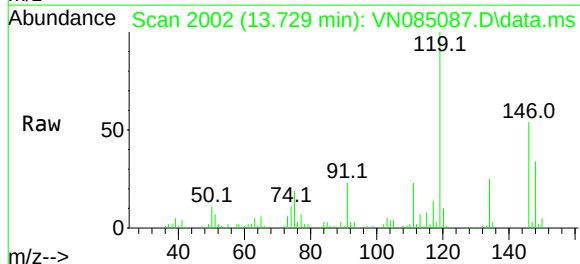
VN1204WBS01

Tgt Ion:	146	Resp:	76671
Ion Ratio	Lower	Upper	
146	100		
111	42.5	21.6	65.0
148	63.8	32.2	96.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#88

1,4-Dichlorobenzene

Concen: 18.249 ug/l

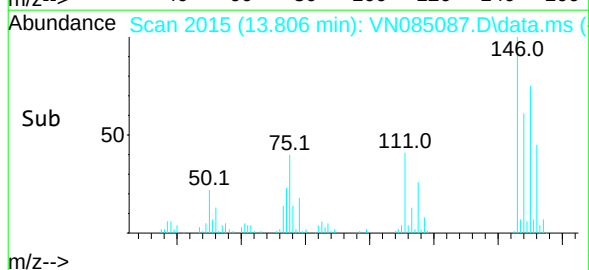
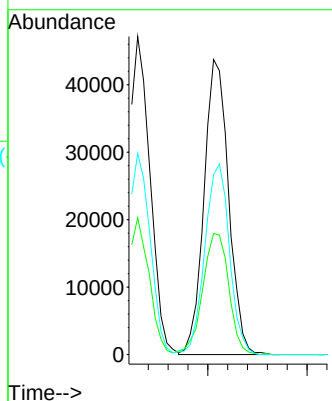
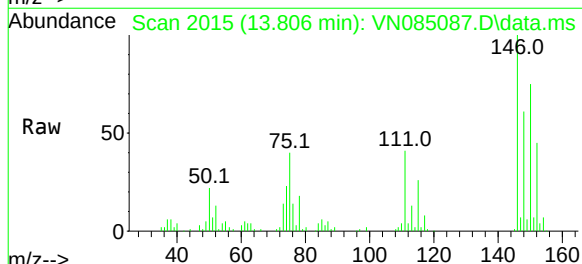
RT: 13.806 min Scan# 2015

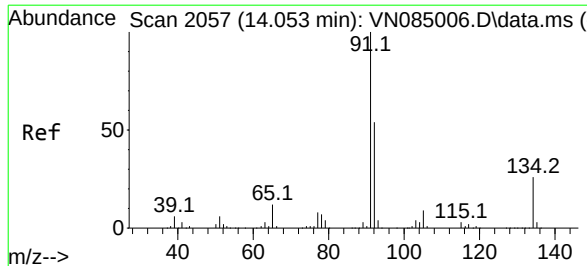
Delta R.T. -0.006 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Tgt Ion:	146	Resp:	75413
Ion Ratio	Lower	Upper	
146	100		
111	43.6	20.9	62.8
148	64.9	31.3	93.9





#89

n-Butylbenzene

Concen: 19.379 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

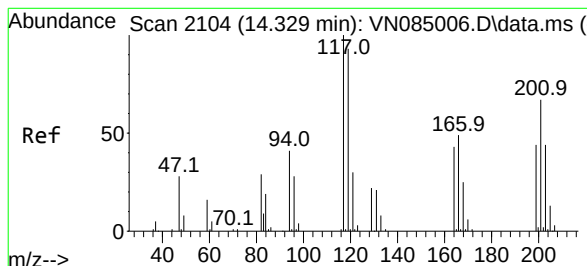
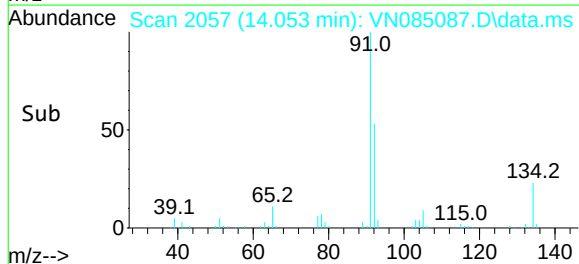
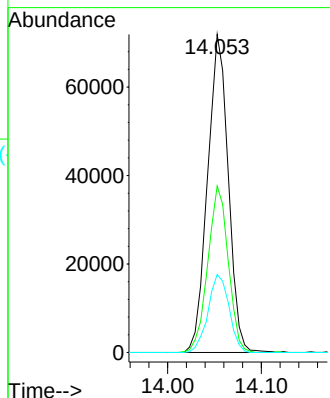
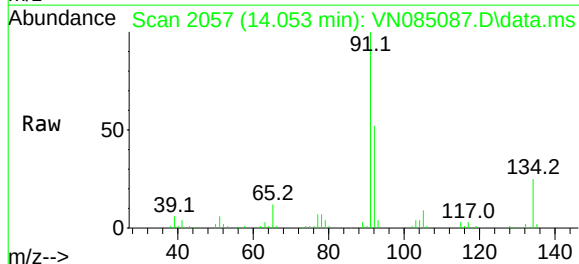
ClientSampleId :

VN1204WBS01

Tgt Ion:	91	Resp:	110694
Ion Ratio	Lower	Upper	
91	100		
92	51.5	26.8	80.3
134	24.8	12.8	38.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#90

Hexachloroethane

Concen: 20.948 ug/l

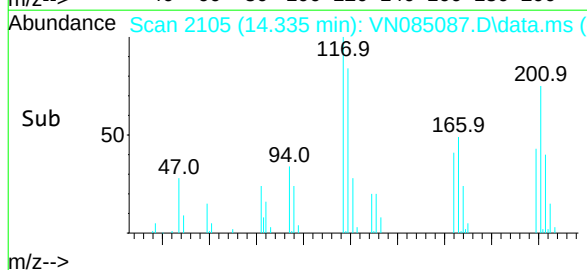
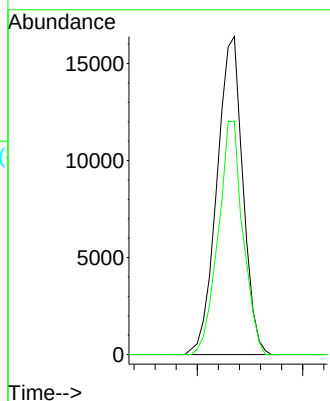
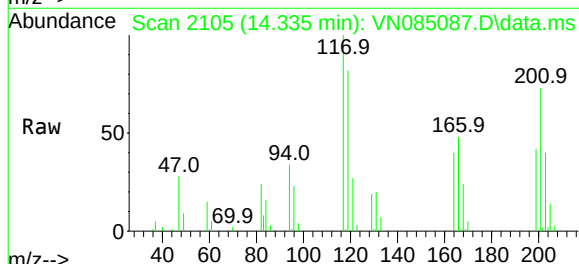
RT: 14.335 min Scan# 2105

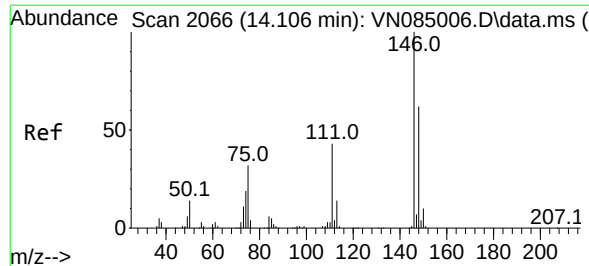
Delta R.T. 0.006 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Tgt Ion:	117	Resp:	28046
Ion Ratio	Lower	Upper	
117	100		
201	70.0	35.2	105.6





#91

1,2-Dichlorobenzene

Concen: 19.019 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

ClientSampleId :

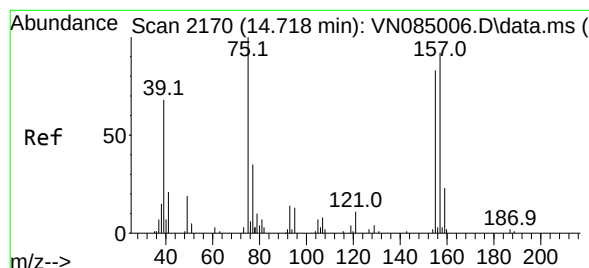
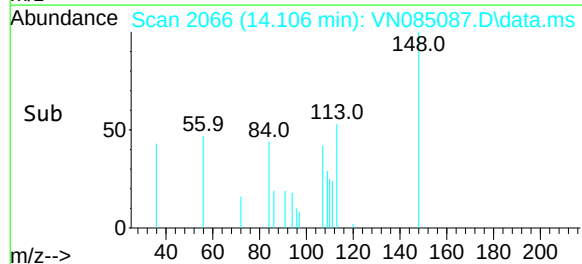
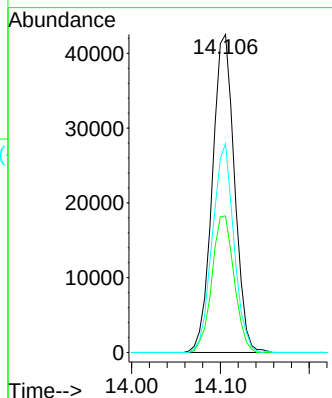
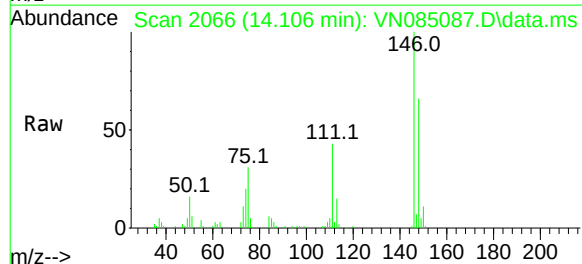
VN1204WBS01

Tgt Ion:	146	Resp:	73798
Ion	Ratio	Lower	Upper
146	100		
111	43.1	21.9	65.8
148	63.8	31.1	93.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 20.329 ug/l

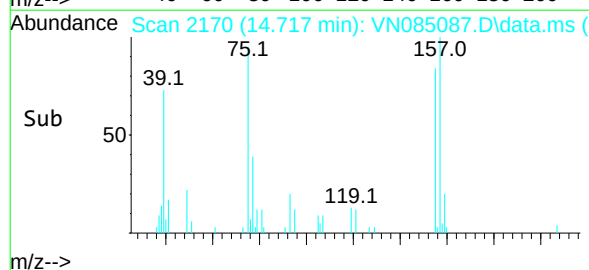
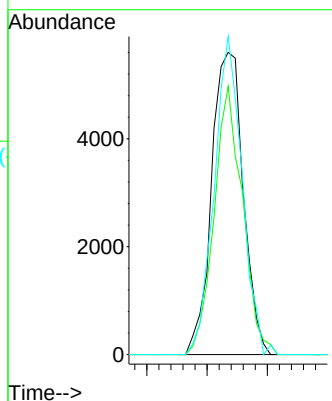
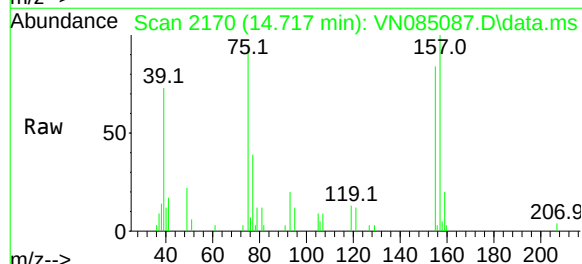
RT: 14.717 min Scan# 2170

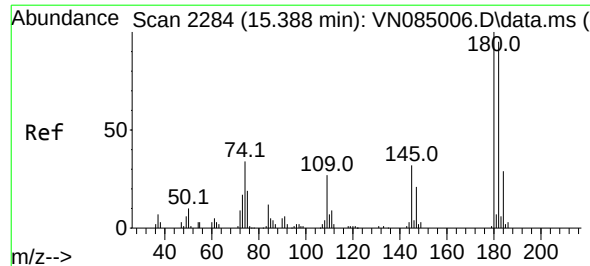
Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Tgt Ion:	75	Resp:	10241
Ion	Ratio	Lower	Upper
75	100		
155	79.7	38.9	116.7
157	92.6	48.3	144.9





#93

1,2,4-Trichlorobenzene

Concen: 17.019 ug/l

RT: 15.394 min Scan# 2284

Delta R.T. 0.006 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

ClientSampleId :

VN1204WBS01

Tgt Ion:180 Resp: 35878

Ion Ratio Lower Upper

180 100

182 92.8 46.9 140.8

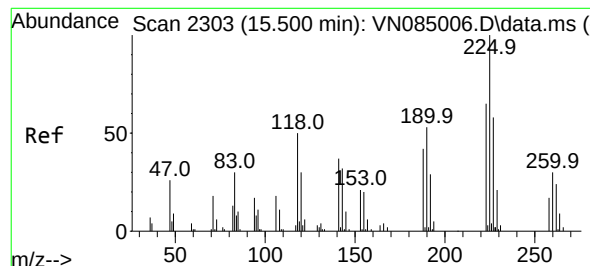
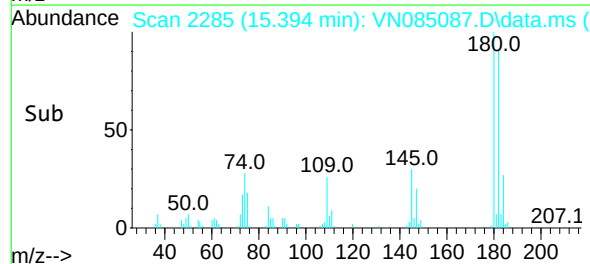
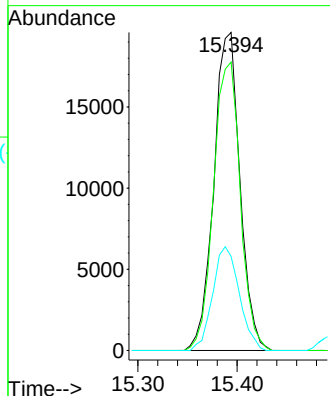
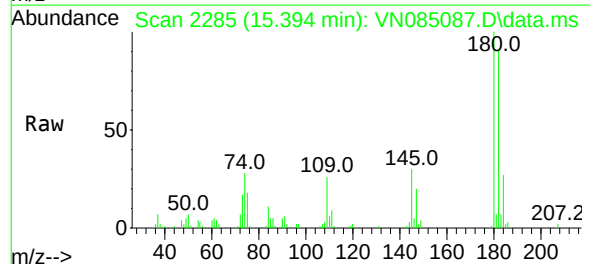
145 33.2 16.3 48.8

Manual Integrations

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Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#94

Hexachlorobutadiene

Concen: 18.035 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

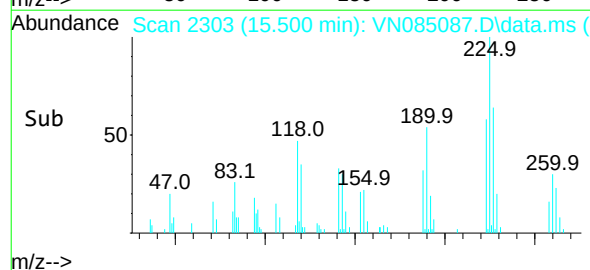
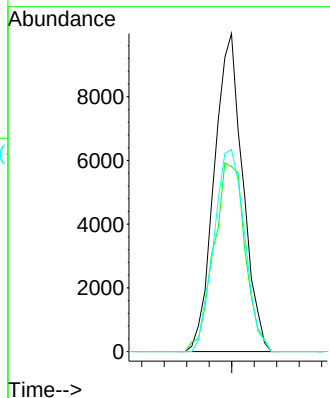
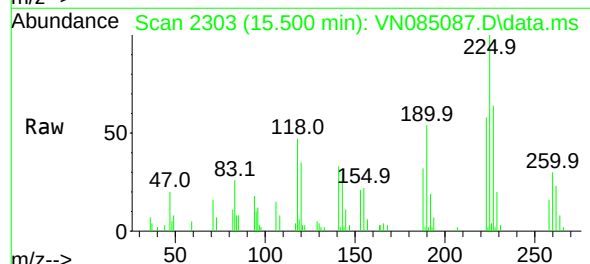
Tgt Ion:225 Resp: 17546

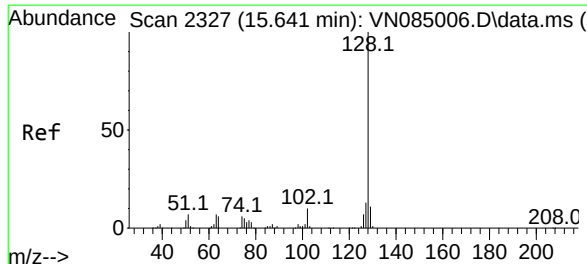
Ion Ratio Lower Upper

225 100

223 65.1 30.9 92.8

227 68.4 31.5 94.5





#95

Naphthalene

Concen: 17.369 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. -0.000 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

Instrument :

MSVOA_N

ClientSampleId :

VN1204WBS01

Tgt Ion:128 Resp: 104286

Ion Ratio Lower Upper

128 100

127 13.1 10.6 16.0

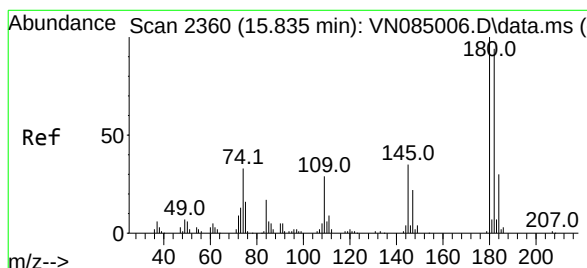
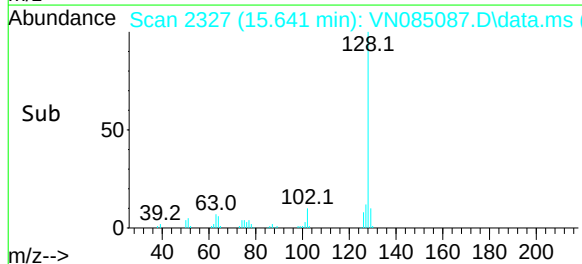
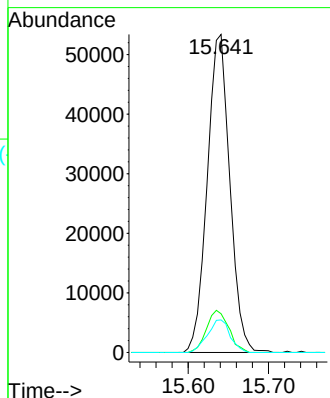
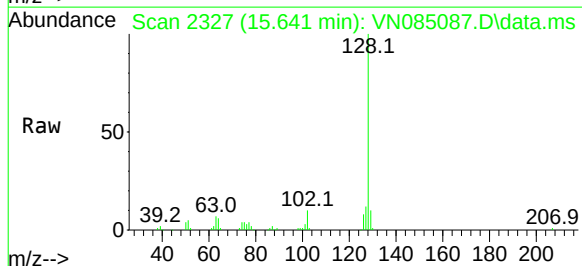
129 10.3 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#96

1,2,3-Trichlorobenzene

Concen: 18.104 ug/l

RT: 15.841 min Scan# 2361

Delta R.T. 0.006 min

Lab File: VN085087.D

Acq: 04 Dec 2024 12:14

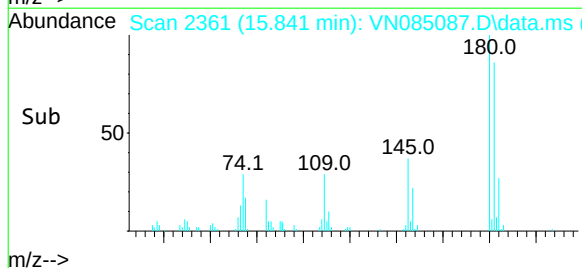
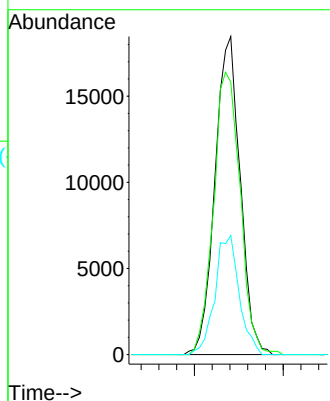
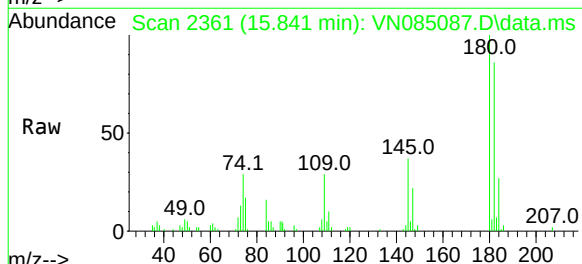
Tgt Ion:180 Resp: 36415

Ion Ratio Lower Upper

180 100

182 94.0 46.4 139.2

145 36.0 17.3 52.0



Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 890	Date Received:	
Client Sample ID:	VN1205WBS01	SDG No.:	P5088
Lab Sample ID:	VN1205WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085109.D	1		12/05/24 12:13	VN120524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	18.9		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	20.7		0.26	1.00	ug/L
75-09-2	Methylene Chloride	20.1		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	20.0		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.5		0.23	1.00	ug/L
56-23-5	Carbon Tetrachloride	22.1		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.8		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	21.6		0.19	1.00	ug/L
79-01-6	Trichloroethene	21.8		0.32	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	23.8		0.21	1.00	ug/L
127-18-4	Tetrachloroethene	24.2		0.25	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	23.7		0.39	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.8		70 (74) - 130 (125)	102%	SPK: 50
1868-53-7	Dibromofluoromethane	53.1		70 (75) - 130 (124)	106%	SPK: 50
2037-26-5	Toluene-d8	50.8		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.2		70 (77) - 130 (121)	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	155000	8.224			
540-36-3	1,4-Difluorobenzene	255000	9.1			
3114-55-4	Chlorobenzene-d5	218000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	104000	13.788			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120524\
 Data File : VN085109.D
 Acq On : 05 Dec 2024 12:13
 Operator : JC\MD
 Sample : VN1205WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1205WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/06/2024
 Supervised By :Mahesh Dadoda 12/06/2024

Quant Time: Dec 06 00:45:16 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 23 02:54:10 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	155083	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	255063	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	218295	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	104397	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	112120	50.755	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.500%			
35) Dibromofluoromethane	8.165	113	91281	53.069	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.140%			
50) Toluene-d8	10.565	98	313386	50.839	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.680%			
62) 4-Bromofluorobenzene	12.847	95	115683	50.183	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.360%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	30360	17.313	ug/l	99
3) Chloromethane	2.359	50	31913	15.691	ug/l	96
4) Vinyl Chloride	2.512	62	34626	18.944	ug/l	100
5) Bromomethane	2.959	94	23275	22.719	ug/l	91
6) Chloroethane	3.124	64	22144	17.974	ug/l	98
7) Trichlorofluoromethane	3.495	101	63269	20.349	ug/l	96
8) Diethyl Ether	3.959	74	21093	19.932	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	36185	20.519	ug/l	97
10) Methyl Iodide	4.589	142	44849	19.213	ug/l	98
11) Tert butyl alcohol	5.518	59	36643	124.130	ug/l #	88
12) 1,1-Dichloroethene	4.342	96	34085	20.707	ug/l	98
13) Acrolein	4.177	56	25706	130.503	ug/l	97
14) Allyl chloride	5.024	41	49915	17.988	ug/l	95
15) Acrylonitrile	5.718	53	94136	112.636	ug/l	98
16) Acetone	4.424	43	79691	123.867	ug/l	99
17) Carbon Disulfide	4.712	76	93114	19.165	ug/l	98
18) Methyl Acetate	5.024	43	48362	22.897	ug/l	99
19) Methyl tert-butyl Ether	5.794	73	114809	21.347	ug/l	96
20) Methylene Chloride	5.277	84	39370	20.054	ug/l	96
21) trans-1,2-Dichloroethene	5.789	96	34725	20.047	ug/l	87
22) Diisopropyl ether	6.671	45	115985	20.768	ug/l	97
23) Vinyl Acetate	6.600	43	413235	107.253	ug/l	97
24) 1,1-Dichloroethane	6.571	63	68608	20.528	ug/l	98
25) 2-Butanone	7.483	43	125240	119.068	ug/l	98
26) 2,2-Dichloropropane	7.488	77	62439	20.007	ug/l	99
27) cis-1,2-Dichloroethene	7.488	96	43395	20.781	ug/l	98
28) Bromochloromethane	7.812	49	25132	19.921	ug/l	94
29) Tetrahydrofuran	7.835	42	83201	127.198	ug/l	98
30) Chloroform	7.965	83	74379	20.921	ug/l	95
31) Cyclohexane	8.259	56	57724	19.617	ug/l #	96
32) 1,1,1-Trichloroethane	8.171	97	69274	21.563	ug/l	97
36) 1,1-Dichloropropene	8.371	75	48110	20.650	ug/l	98
37) Ethyl Acetate	7.559	43	52054	24.576	ug/l	98
38) Carbon Tetrachloride	8.359	117	59479	22.117	ug/l	99
39) Methylcyclohexane	9.600	83	51194	21.146	ug/l	98
40) Benzene	8.606	78	158488	21.508	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120524\
 Data File : VN085109.D
 Acq On : 05 Dec 2024 12:13
 Operator : JC\MD
 Sample : VN1205WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1205WBS01

Manual Integrations APPROVED

Reviewed By : John Carlone 12/06/2024
 Supervised By : Mahesh Dadoda 12/06/2024

Quant Time: Dec 06 00:45:16 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 23 02:54:10 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.783	41	26487	22.586	ug/l	95
42) 1,2-Dichloroethane	8.671	62	57630	22.861	ug/l	100
43) Isopropyl Acetate	8.688	43	90350	20.536	ug/l	100
44) Trichloroethene	9.353	130	37390	21.834	ug/l	95
45) 1,2-Dichloropropane	9.618	63	38046	20.963	ug/l	89
46) Dibromomethane	9.706	93	27155	21.532	ug/l	95
47) Bromodichloromethane	9.888	83	59663	22.322	ug/l	97
48) Methyl methacrylate	9.677	41	39316	24.015	ug/l	96
49) 1,4-Dioxane	9.694	88	14280	502.968	ug/l #	93
51) 4-Methyl-2-Pentanone	10.441	43	265267	132.006	ug/l	99
52) Toluene	10.629	92	97234	22.290	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	56874	21.224	ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	61868	21.763	ug/l	95
55) 1,1,2-Trichloroethane	11.012	97	38744	23.845	ug/l	98
56) Ethyl methacrylate	10.871	69	56618	23.846	ug/l	98
57) 1,3-Dichloropropane	11.159	76	62715	21.930	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	126501	108.616	ug/l	100
59) 2-Hexanone	11.194	43	197640	131.504	ug/l	99
60) Dibromochloromethane	11.359	129	45949	23.139	ug/l	99
61) 1,2-Dibromoethane	11.471	107	38597	22.953	ug/l	99
64) Tetrachloroethene	11.100	164	35577	24.187	ug/l	98
65) Chlorobenzene	11.888	112	103683	20.943	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	39302	22.548	ug/l	97
67) Ethyl Benzene	11.965	91	176852	22.019	ug/l	99
68) m/p-Xylenes	12.070	106	139860	45.738	ug/l	97
69) o-Xylene	12.394	106	65583	22.547	ug/l	100
70) Styrene	12.406	104	112638	23.286	ug/l	98
71) Bromoform	12.576	173	31136	24.064	ug/l #	97
73) Isopropylbenzene	12.694	105	168063	22.820	ug/l	98
74) N-amyl acetate	12.494	43	70205	23.133	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	54592	21.707	ug/l	98
76) 1,2,3-Trichloropropane	12.988	75	45042m	23.720	ug/l	
77) Bromobenzene	12.982	156	41712	21.046	ug/l	96
78) n-propylbenzene	13.035	91	194094	22.849	ug/l	99
79) 2-Chlorotoluene	13.123	91	120826	21.307	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	143402	23.204	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	19063	22.162	ug/l	98
82) 4-Chlorotoluene	13.217	91	123005	20.837	ug/l	100
83) tert-Butylbenzene	13.435	119	113181	21.285	ug/l	97
84) 1,2,4-Trimethylbenzene	13.482	105	141767	22.285	ug/l	97
85) sec-Butylbenzene	13.612	105	159215	22.165	ug/l	98
86) p-Isopropyltoluene	13.729	119	132307	22.313	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	76678	19.615	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	74561	18.690	ug/l	97
89) n-Butylbenzene	14.053	91	105188	19.075	ug/l	98
90) Hexachloroethane	14.335	117	26915	20.824	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	73260	19.557	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	10795	22.198	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	34923	17.161	ug/l	97
94) Hexachlorobutadiene	15.500	225	17339	18.461	ug/l	99
95) Naphthalene	15.641	128	110224	19.017	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	34864	17.954	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120524\
Data File : VN085109.D
Acq On : 05 Dec 2024 12:13
Operator : JC\MD
Sample : VN1205WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBS01

Manual Integrations
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Quant Time: Dec 06 00:45:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

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

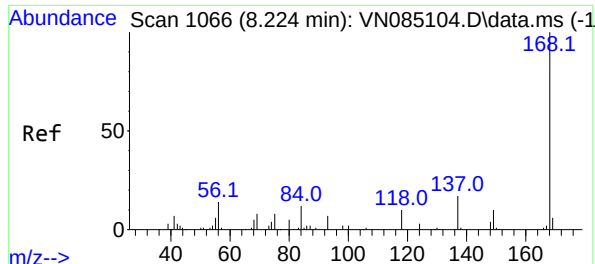
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBS01

Manual Integrations

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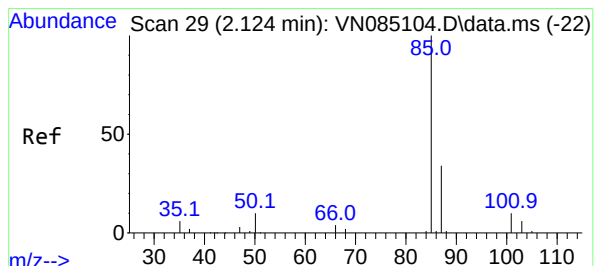
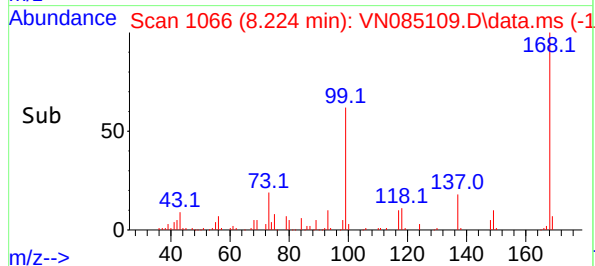
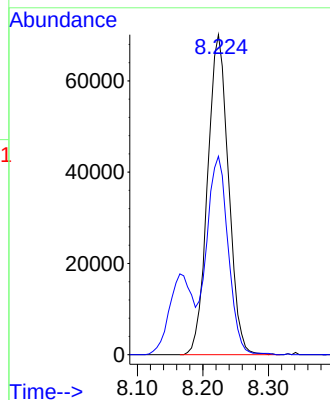
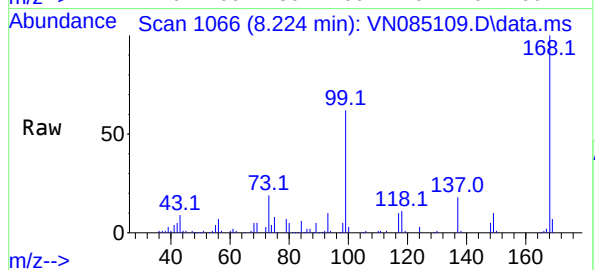
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085109.D
Acq: 05 Dec 2024 12:13

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBS01

Tgt Ion:168 Resp: 15508
Ion Ratio Lower Upper
168 100
99 62.0 51.2 76.8

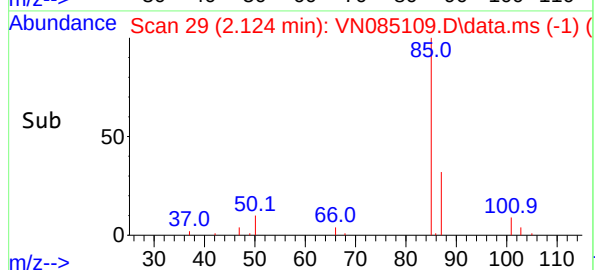
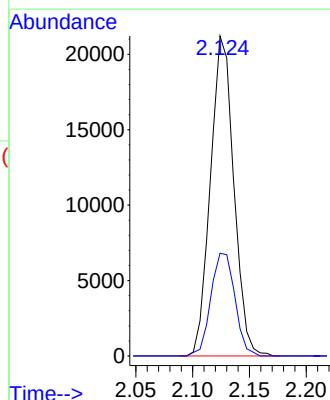
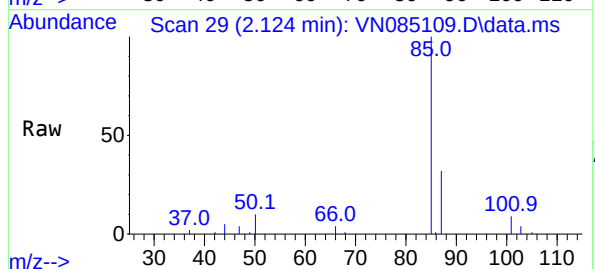
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Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024

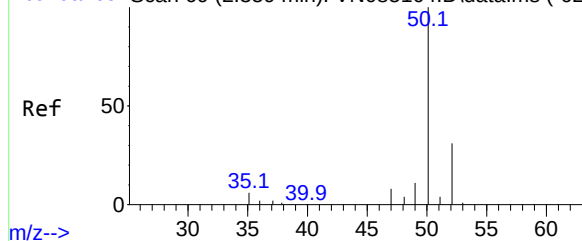


#2
Dichlorodifluoromethane
Concen: 17.313 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.006 min
Lab File: VN085109.D
Acq: 05 Dec 2024 12:13

Tgt Ion: 85 Resp: 30360
Ion Ratio Lower Upper
85 100
87 32.1 15.7 47.1



Abundance Scan 69 (2.359 min): VN085104.D\data.ms (-62)



#3

Chloromethane

Concen: 15.691 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.000 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBS01

Tgt Ion: 50 Resp: 3191

Ion Ratio Lower Upper

50 100

52 32.2 27.8 41.8

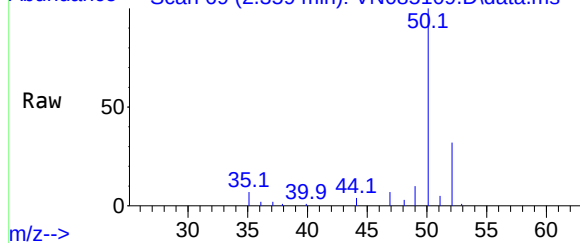
Manual Integrations

APPROVED

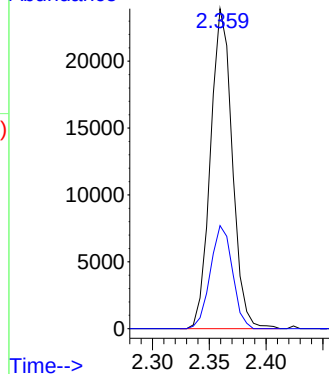
Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024

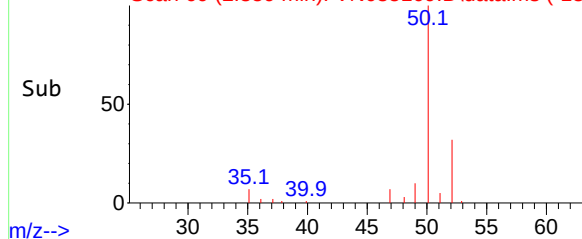
Abundance Scan 69 (2.359 min): VN085109.D\data.ms



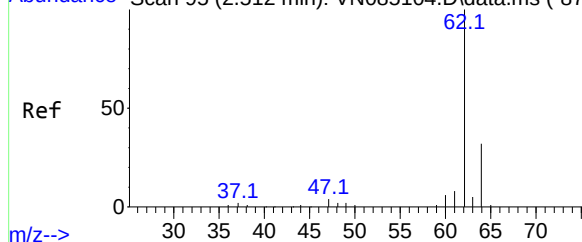
Abundance



Abundance Scan 69 (2.359 min): VN085109.D\data.ms (-18)



Abundance Scan 95 (2.512 min): VN085104.D\data.ms (-87)



#4

Vinyl Chloride

Concen: 18.944 ug/l

RT: 2.512 min Scan# 95

Delta R.T. -0.000 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

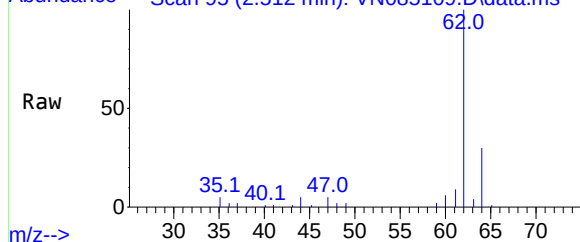
Tgt Ion: 62 Resp: 34626

Ion Ratio Lower Upper

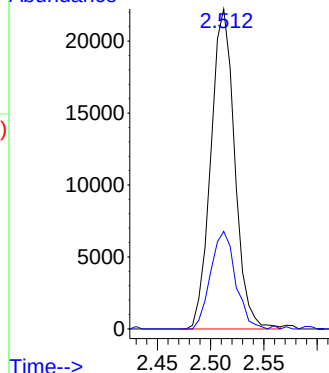
62 100

64 30.5 24.6 36.8

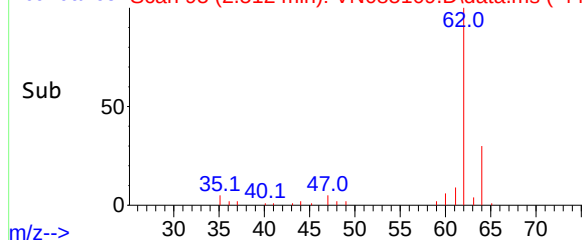
Abundance Scan 95 (2.512 min): VN085109.D\data.ms

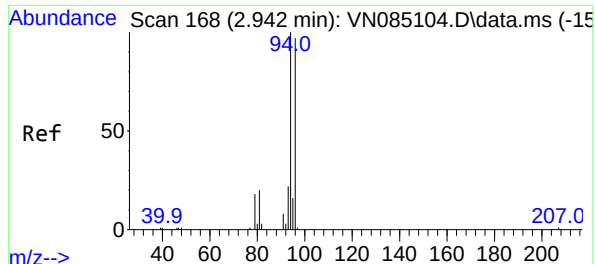


Abundance



Abundance Scan 95 (2.512 min): VN085109.D\data.ms (-44)





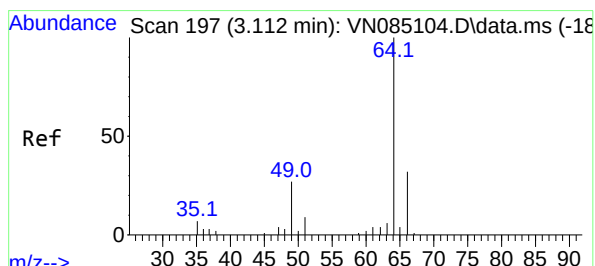
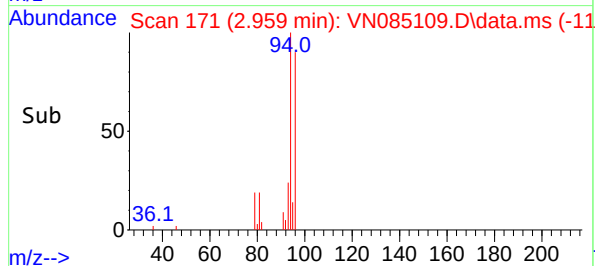
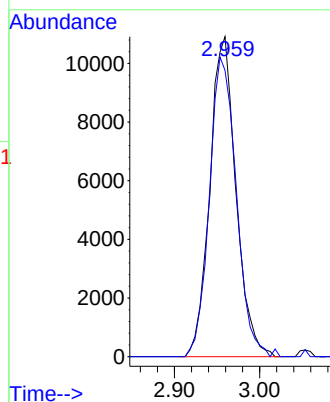
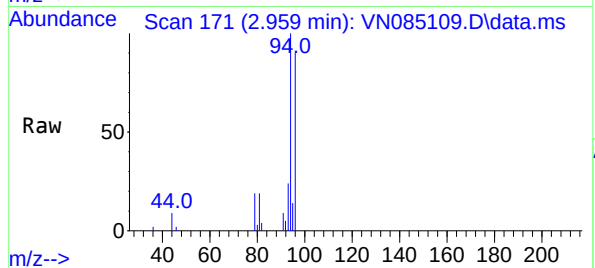
#5
Bromomethane
Concen: 22.719 ug/l
RT: 2.959 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN085109.D
Acq: 05 Dec 2024 12:13

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBS01

Tgt Ion: 94 Resp: 2327
Ion Ratio Lower Upper
94 100
96 89.5 78.7 118.1

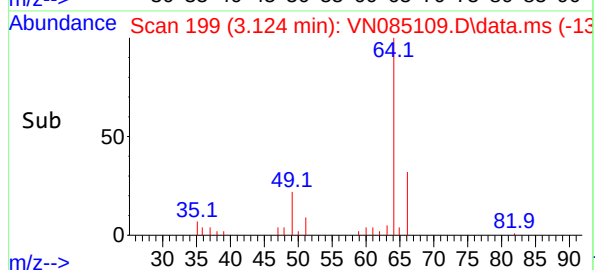
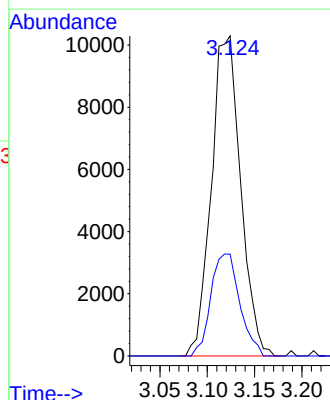
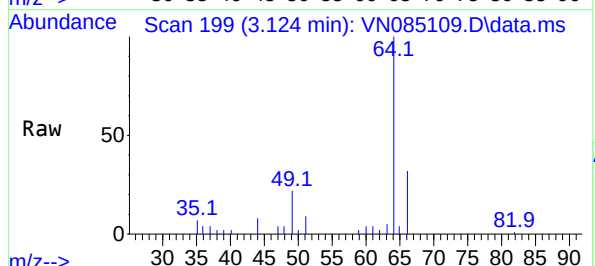
Manual Integrations
APPROVED

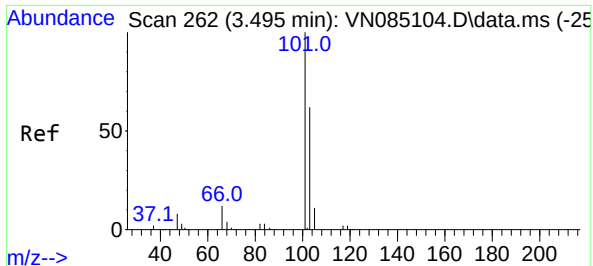
Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024



#6
Chloroethane
Concen: 17.974 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.059 min
Lab File: VN085109.D
Acq: 05 Dec 2024 12:13

Tgt Ion: 64 Resp: 22144
Ion Ratio Lower Upper
64 100
66 31.8 24.4 36.6





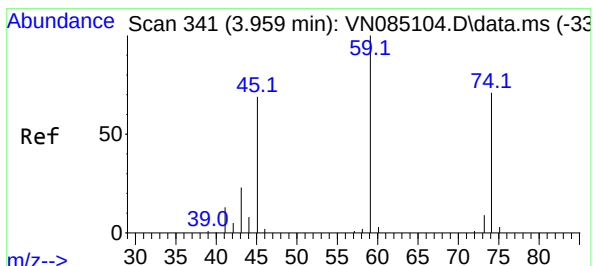
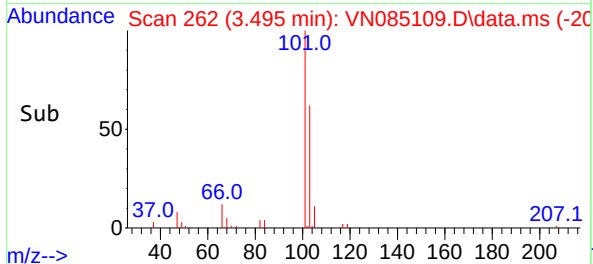
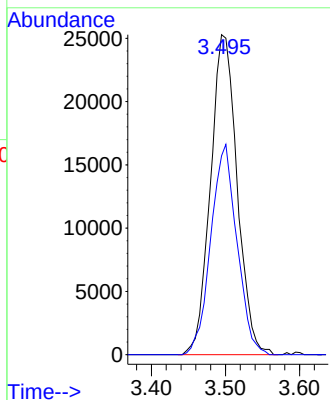
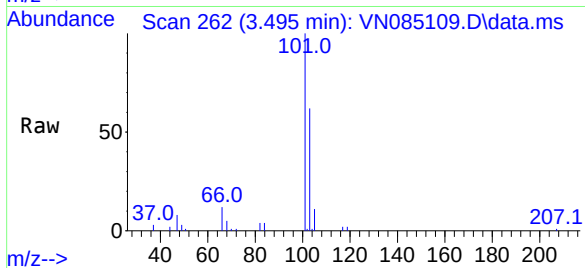
#7
Trichlorofluoromethane
Concen: 20.349 ug/l
RT: 3.495 min Scan# 262
Delta R.T. 0.035 min
Lab File: VN085109.D
Acq: 05 Dec 2024 12:13

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBS01

Tgt Ion:101 Resp: 63269
Ion Ratio Lower Upper
101 100
103 62.1 52.6 78.8

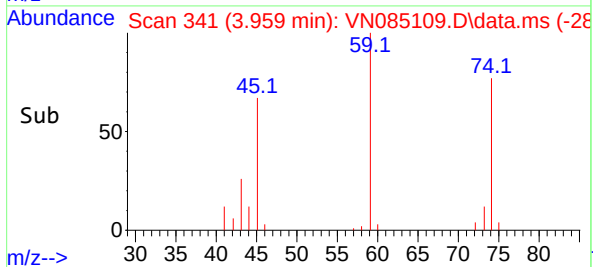
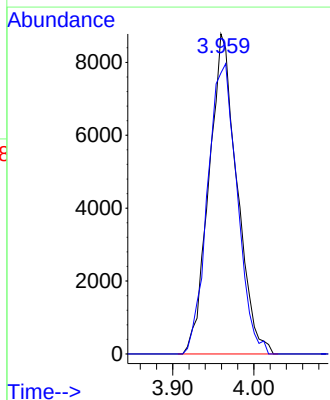
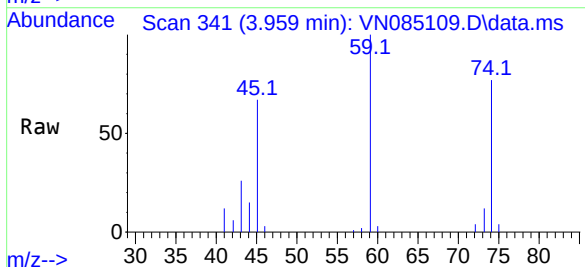
Manual Integrations
APPROVED

Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024

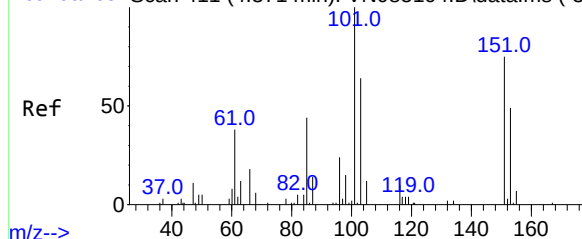


#8
Diethyl Ether
Concen: 19.932 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.012 min
Lab File: VN085109.D
Acq: 05 Dec 2024 12:13

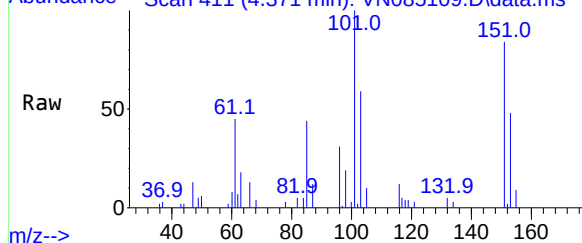
Tgt Ion: 74 Resp: 21093
Ion Ratio Lower Upper
74 100
45 95.4 46.7 140.1



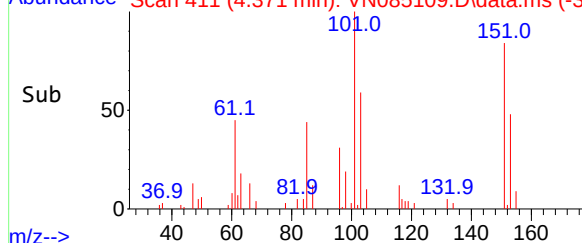
Abundance Scan 411 (4.371 min): VN085104.D\data.ms (-39



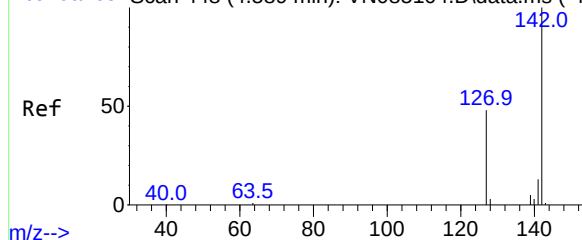
m/z--> Abundance Scan 411 (4.371 min): VN085109.D\data.ms



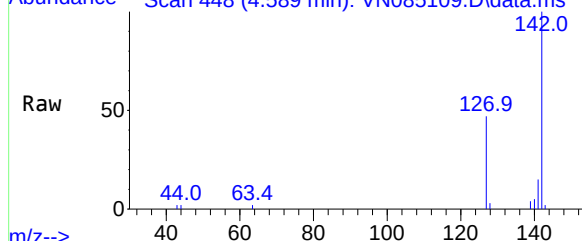
m/z--> Abundance Scan 411 (4.371 min): VN085109.D\data.ms (-35



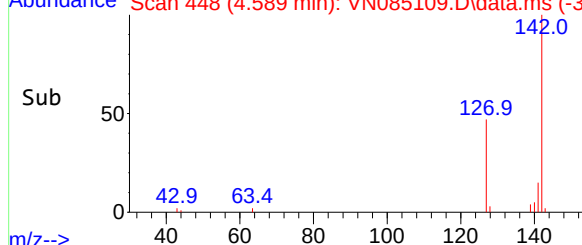
m/z--> Abundance Scan 448 (4.589 min): VN085104.D\data.ms (-43



m/z--> Abundance Scan 448 (4.589 min): VN085109.D\data.ms



m/z--> Abundance Scan 448 (4.589 min): VN085109.D\data.ms (-39



m/z--> Abundance Scan 411 (4.371 min): VN085109.D\data.ms (-35



m/z--> Abundance Scan 448 (4.589 min): VN085109.D\data.ms (-39



m/z--> Abundance Scan 411 (4.371 min): VN085109.D\data.ms (-35



m/z--> Abundance Scan 448 (4.589 min): VN085109.D\data.ms (-39



m/z--> Abundance Scan 411 (4.371 min): VN085109.D\data.ms (-35



m/z--> Abundance Scan 448 (4.589 min): VN085109.D\data.ms (-39



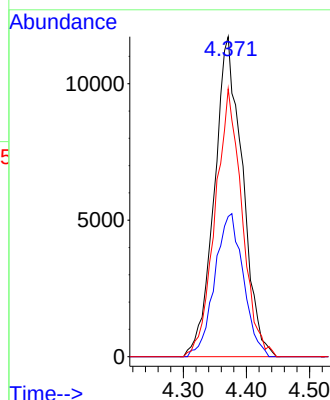
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.519 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.018 min
Lab File: VN085109.D
Acq: 05 Dec 2024 12:13

Tgt Ion:101 Resp: 3618
Ion Ratio Lower Upper
101 100
85 45.5 36.9 55.3
151 80.2 60.8 91.2

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBS01

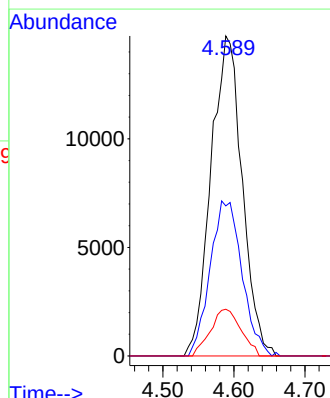
Manual Integrations
APPROVED

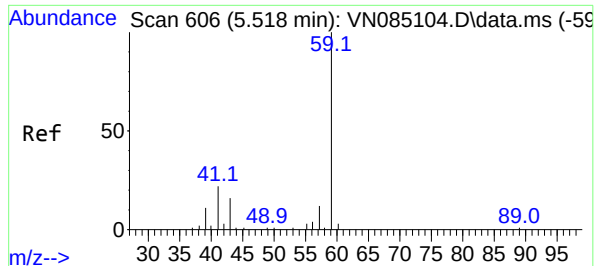
Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024



#10
Methyl Iodide
Concen: 19.213 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.018 min
Lab File: VN085109.D
Acq: 05 Dec 2024 12:13

Tgt Ion:142 Resp: 44849
Ion Ratio Lower Upper
142 100
127 46.9 36.6 54.8
141 14.6 12.2 18.4





#11

Tert butyl alcohol

Concen: 124.130 ug/l

RT: 5.518 min Scan# 606

Delta R.T. -0.024 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBS01

Tgt Ion: 59 Resp: 3664

Ion Ratio Lower Upper

59 100

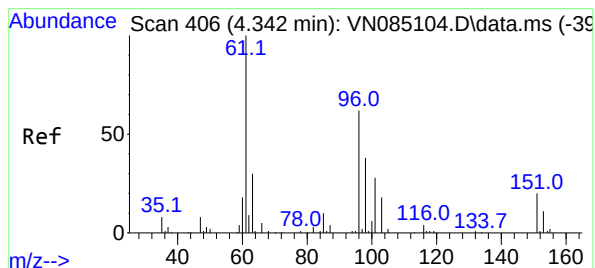
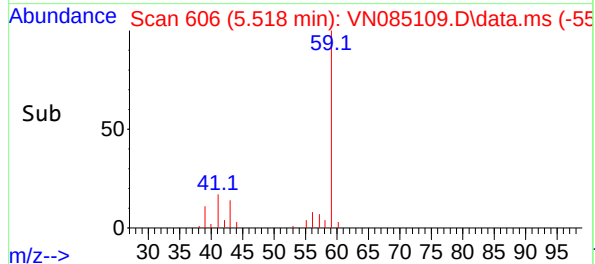
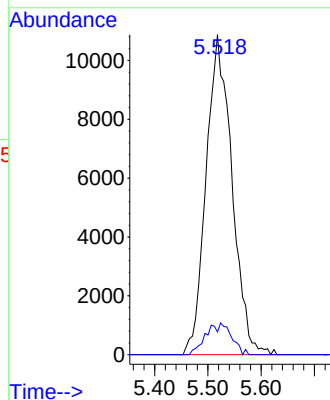
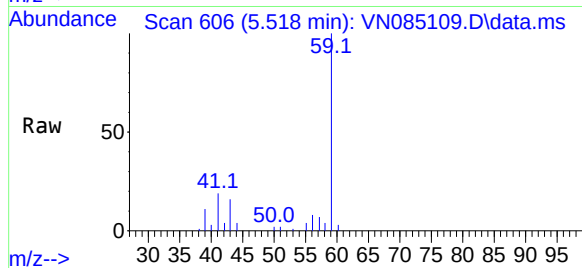
57 5.0 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#12

1,1-Dichloroethene

Concen: 20.707 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.023 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

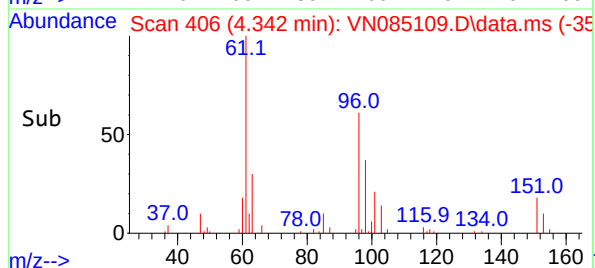
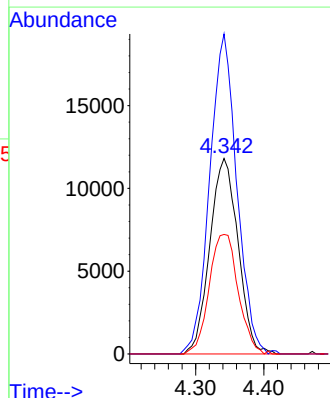
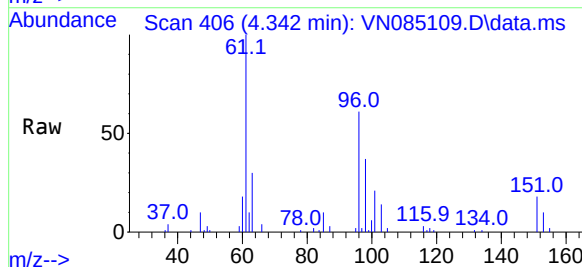
Tgt Ion: 96 Resp: 34085

Ion Ratio Lower Upper

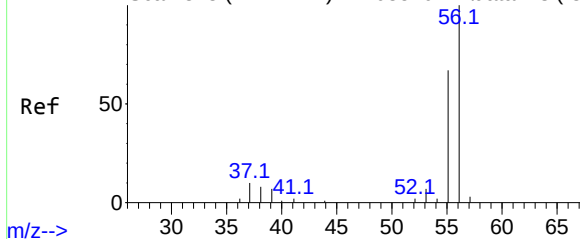
96 100

61 163.6 127.8 191.8

98 61.1 49.2 73.8



Abundance Scan 378 (4.177 min): VN085104.D\data.ms (-36



#13

Acrolein

Concen: 130.503 ug/l

RT: 4.177 min Scan# 31

Delta R.T. 0.012 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBS01

Tgt Ion: 56 Resp: 25700

Ion Ratio Lower Upper

56 100

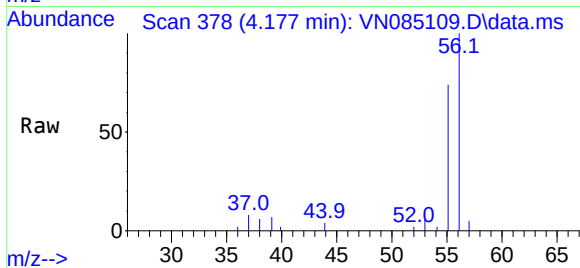
55 70.6 54.5 81.7

Manual Integrations

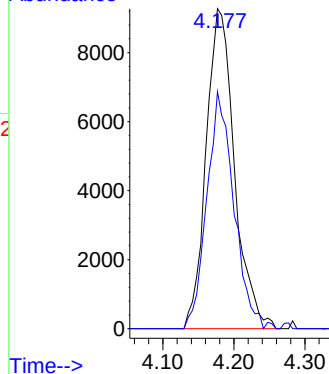
APPROVED

Reviewed By :John Carlone 12/06/2024

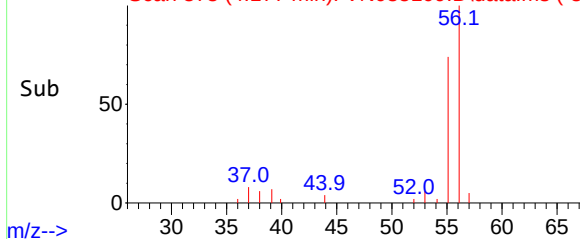
Supervised By :Mahesh Dadoda 12/06/2024



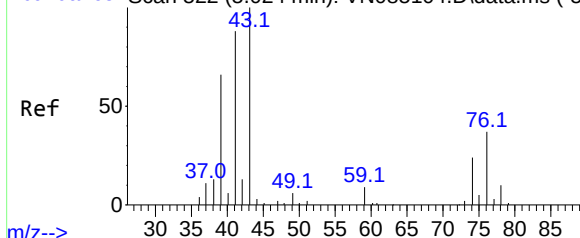
Abundance



Abundance Scan 378 (4.177 min): VN085109.D\data.ms (-32



Abundance Scan 522 (5.024 min): VN085104.D\data.ms (-51



#14

Allyl chloride

Concen: 17.988 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.018 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

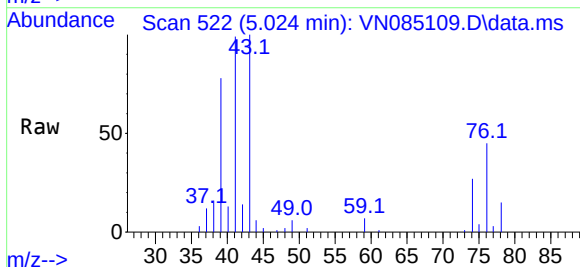
Tgt Ion: 41 Resp: 49915

Ion Ratio Lower Upper

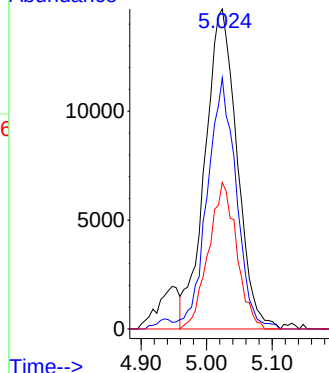
41 100

39 70.9 53.8 80.8

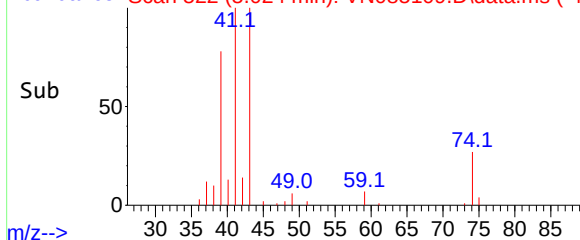
76 40.2 29.3 43.9



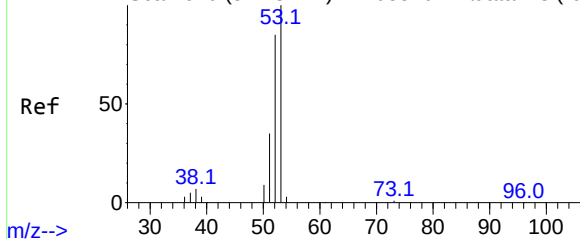
Abundance



Abundance Scan 522 (5.024 min): VN085109.D\data.ms (-46



Abundance Scan 640 (5.718 min): VN085104.D\data.ms (-62



#15

Acrylonitrile

Concen: 112.636 ug/l

RT: 5.718 min Scan# 640

Delta R.T. 0.006 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBS01

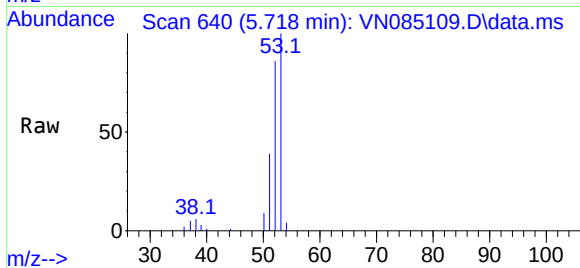
Tgt Ion:	53	Resp:	94130
Ion	Ratio	Lower	Upper
53	100		
52	83.0	65.5	98.3
51	37.8	28.4	42.6

Manual Integrations

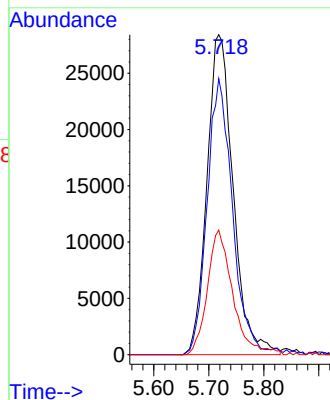
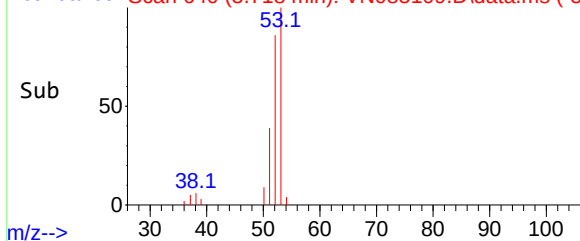
APPROVED

Reviewed By :John Carlone 12/06/2024

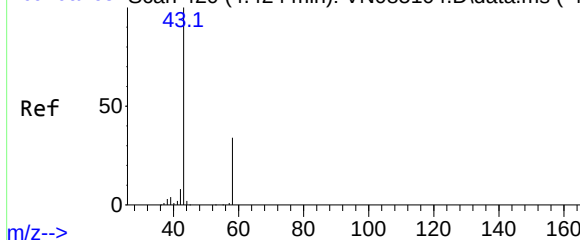
Supervised By :Mahesh Dadoda 12/06/2024



Abundance Scan 640 (5.718 min): VN085109.D\data.ms (-58



Abundance Scan 420 (4.424 min): VN085104.D\data.ms (-40



#16

Acetone

Concen: 123.867 ug/l

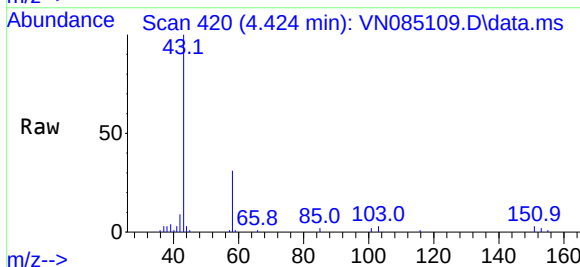
RT: 4.424 min Scan# 420

Delta R.T. -0.000 min

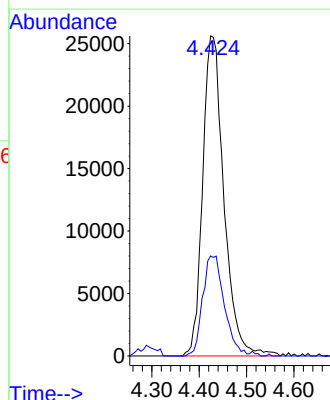
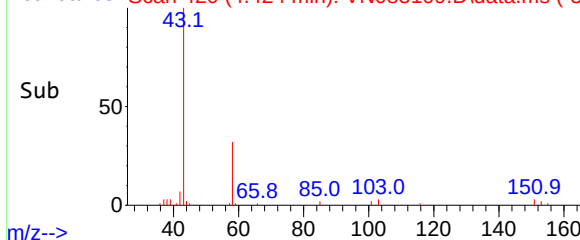
Lab File: VN085109.D

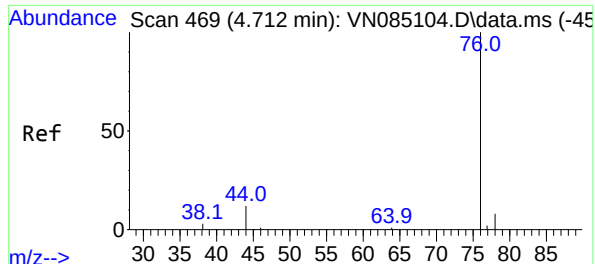
Acq: 05 Dec 2024 12:13

Tgt Ion:	43	Resp:	79691
Ion	Ratio	Lower	Upper
43	100		
58	31.2	25.4	38.2



Abundance Scan 420 (4.424 min): VN085109.D\data.ms (-36





#17

Carbon Disulfide

Concen: 19.165 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.018 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBS01

Tgt Ion: 76 Resp: 93114

Ion Ratio Lower Upper

76 100

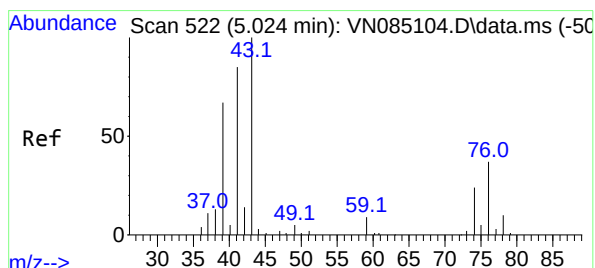
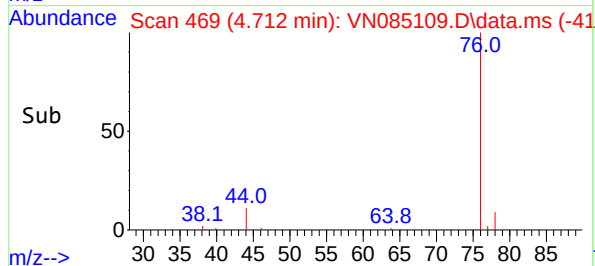
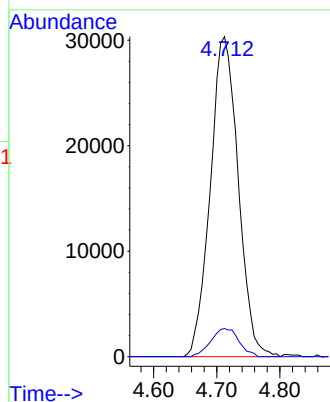
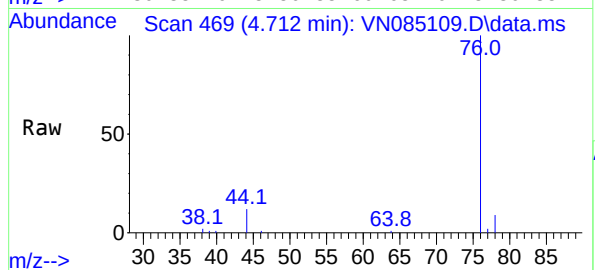
78 8.8 6.5 9.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#18

Methyl Acetate

Concen: 22.897 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN085109.D

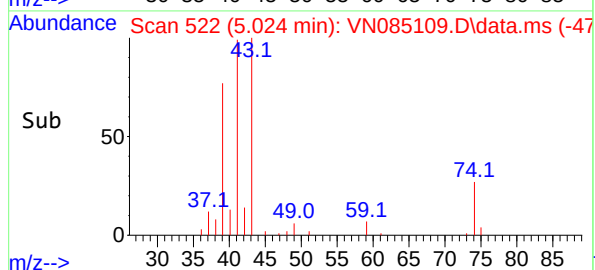
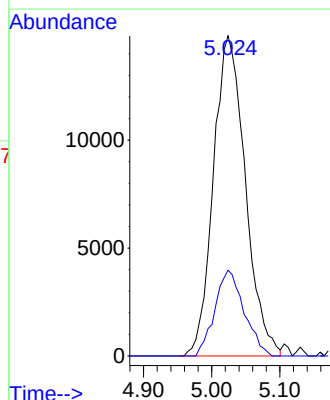
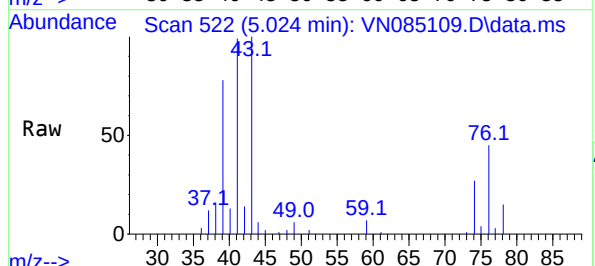
Acq: 05 Dec 2024 12:13

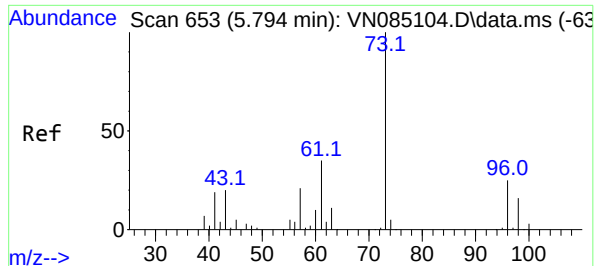
Tgt Ion: 43 Resp: 48362

Ion Ratio Lower Upper

43 100

74 24.5 20.1 30.1





#19

Methyl tert-butyl Ether

Concen: 21.347 ug/l

RT: 5.794 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBS01

Tgt Ion: 73 Resp: 114809

Ion Ratio Lower Upper

73 100

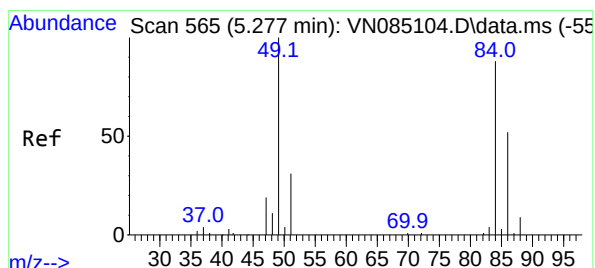
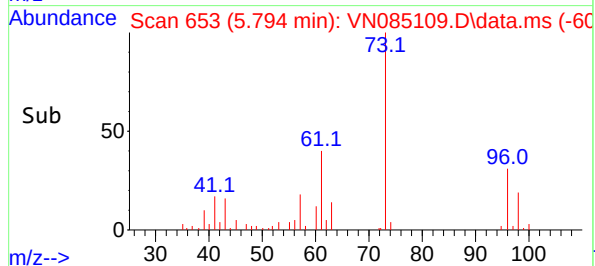
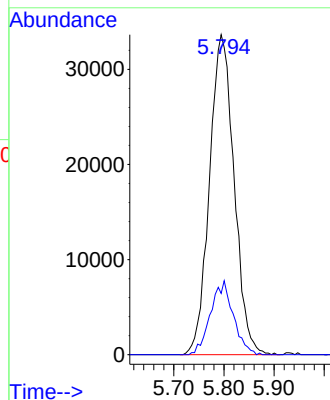
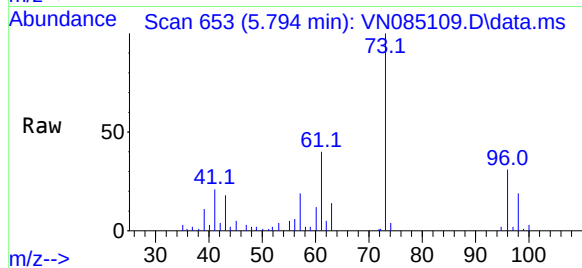
57 19.2 17.0 25.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#20

Methylene Chloride

Concen: 20.054 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.012 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Tgt Ion: 84 Resp: 39370

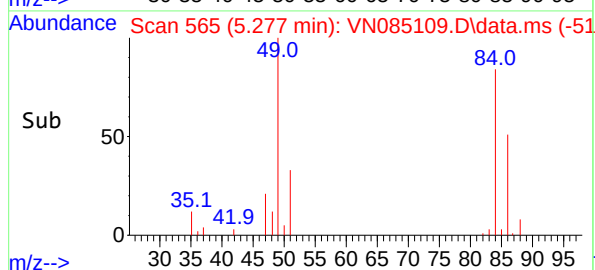
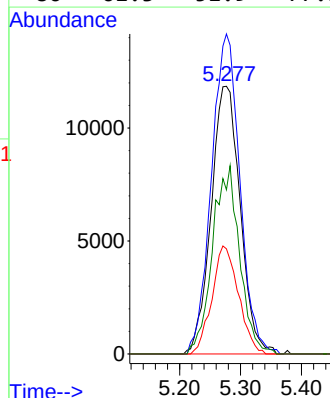
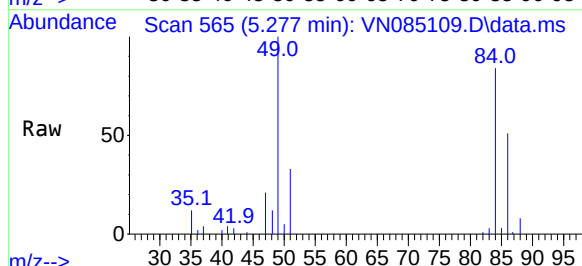
Ion Ratio Lower Upper

84 100

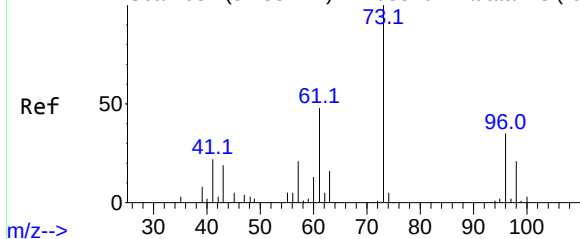
49 119.5 92.7 139.1

51 39.3 29.4 44.2

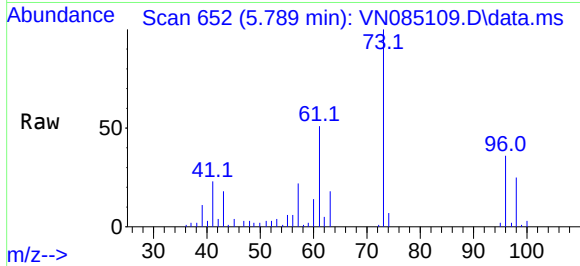
86 61.3 51.9 77.9



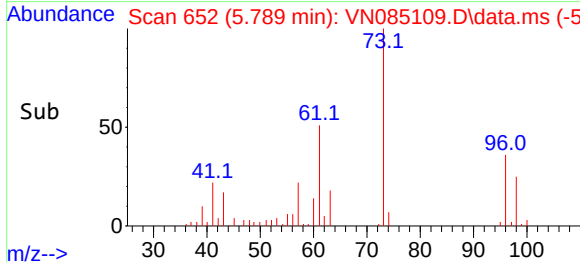
Abundance Scan 651 (5.783 min): VN085104.D\data.ms (-63



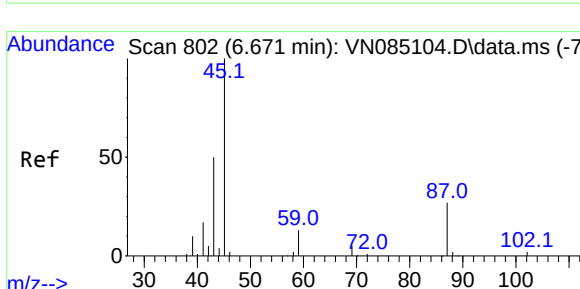
m/z--> Abundance Scan 652 (5.789 min): VN085109.D\data.ms



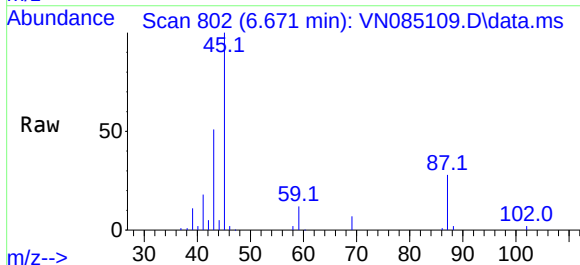
m/z--> Abundance Scan 652 (5.789 min): VN085109.D\data.ms (-59



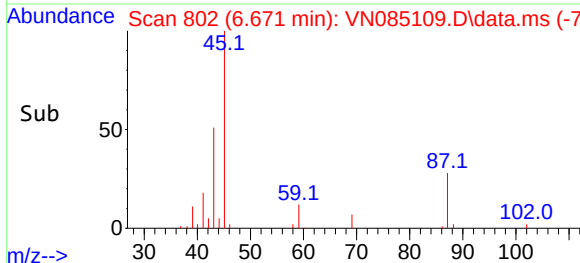
m/z--> Abundance Scan 802 (6.671 min): VN085104.D\data.ms (-78



m/z--> Abundance Scan 802 (6.671 min): VN085109.D\data.ms



m/z--> Abundance Scan 802 (6.671 min): VN085109.D\data.ms (-75



m/z--> Abundance Scan 802 (6.671 min): VN085109.D\data.ms (-75

#21

trans-1,2-Dichloroethene

Concen: 20.047 ug/l

RT: 5.789 min Scan# 651

Delta R.T. 0.018 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Tgt Ion: 96 Resp: 3472

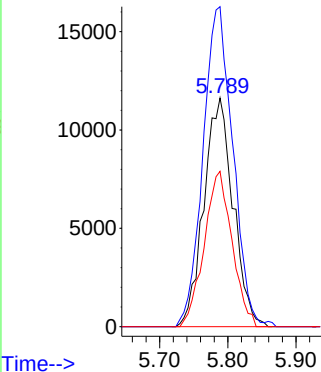
Ion Ratio Lower Upper

96 100

61 139.9 100.7 151.1

98 68.0 45.8 68.6

Abundance



Time-->

#22

Diisopropyl ether

Concen: 20.768 ug/l

RT: 6.671 min Scan# 802

Delta R.T. 0.006 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Tgt Ion: 45 Resp: 115985

Ion Ratio Lower Upper

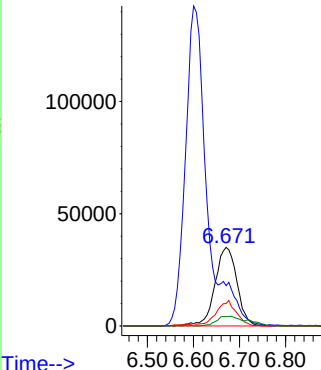
45 100

43 50.2 42.7 64.1

87 28.5 22.6 34.0

59 11.2 9.9 14.9

Abundance



Time-->

Instrument :

MSVOA_N

ClientSampleId :

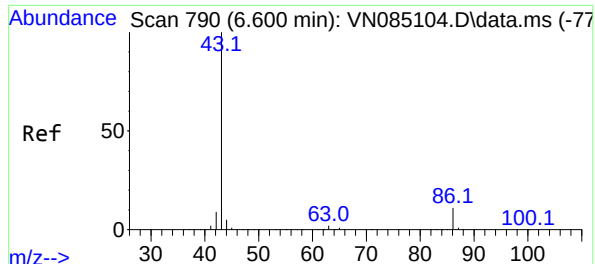
VN1205WBS01

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#23

Vinyl Acetate

Concen: 107.253 ug/l

RT: 6.600 min Scan# 790

Delta R.T. 0.006 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBS01

Tgt Ion: 43 Resp: 41323

Ion Ratio Lower Upper

43 100

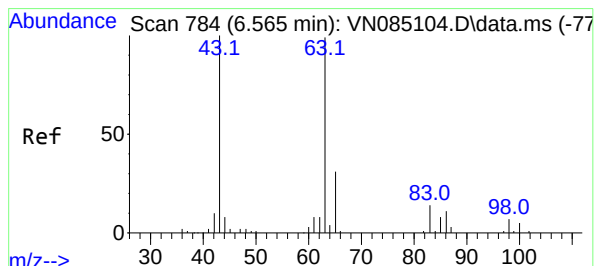
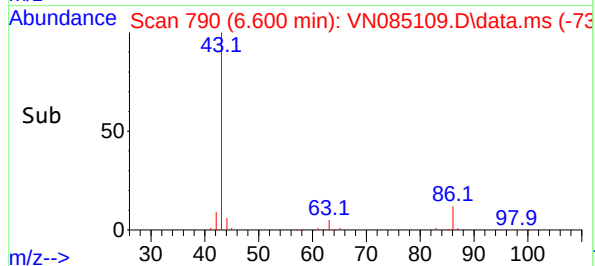
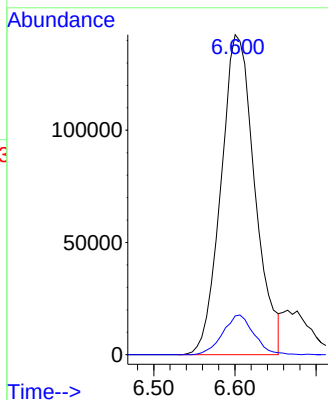
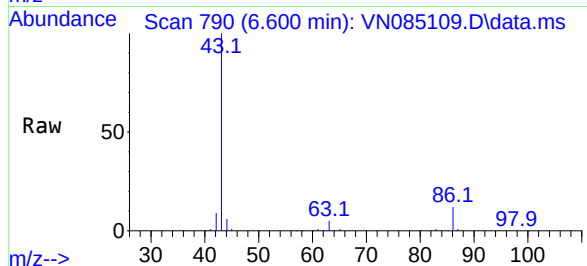
86 12.1 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#24

1,1-Dichloroethane

Concen: 20.528 ug/l

RT: 6.571 min Scan# 785

Delta R.T. 0.018 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

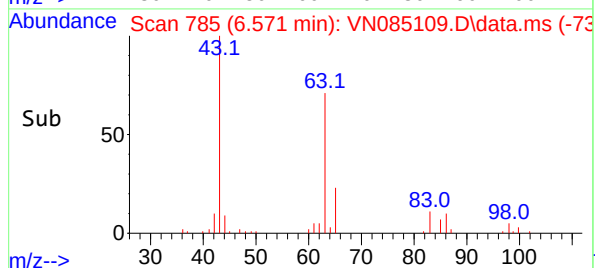
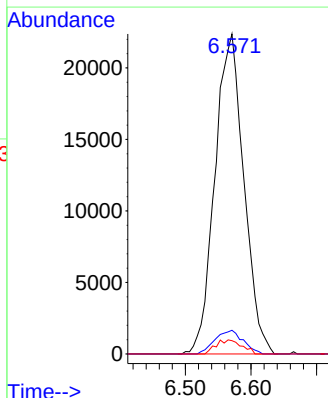
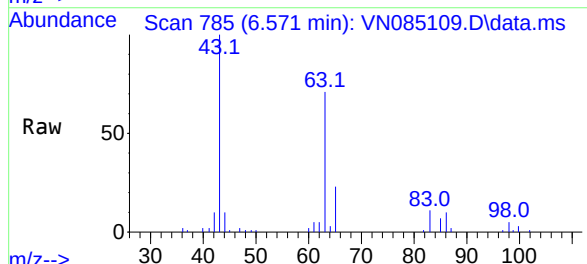
Tgt Ion: 63 Resp: 68608

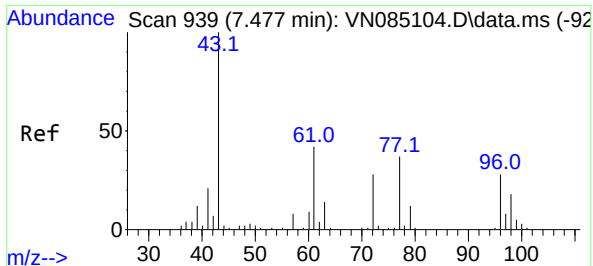
Ion Ratio Lower Upper

63 100

98 7.4 3.3 9.8

100 4.2 2.2 6.6





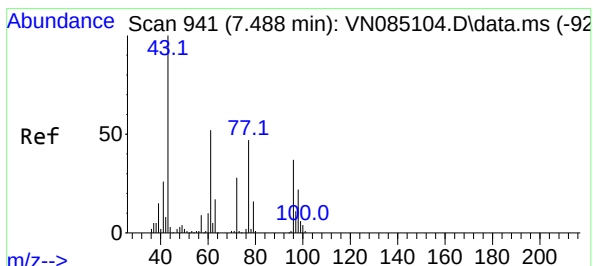
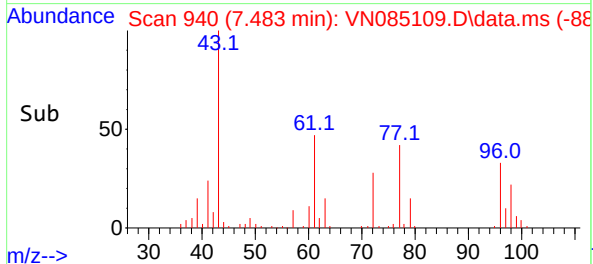
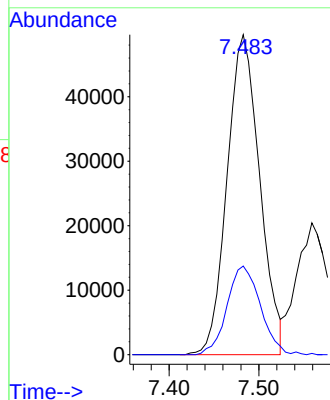
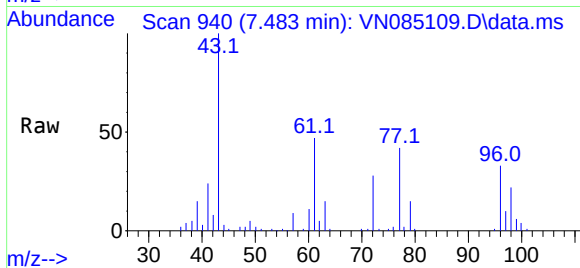
#25
2-Butanone
Concen: 119.068 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN085109.D
Acq: 05 Dec 2024 12:13

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBS01

Tgt Ion: 43 Resp: 125240
Ion Ratio Lower Upper
43 100
72 27.7 21.4 32.0

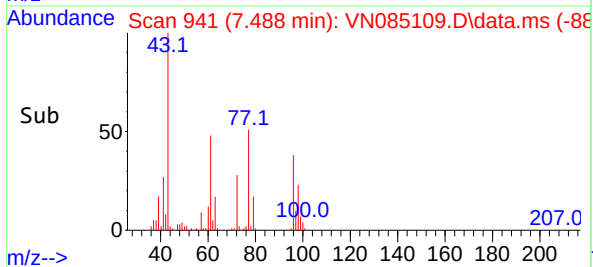
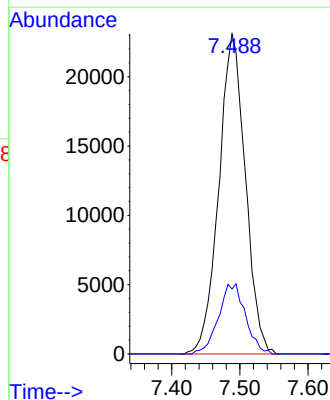
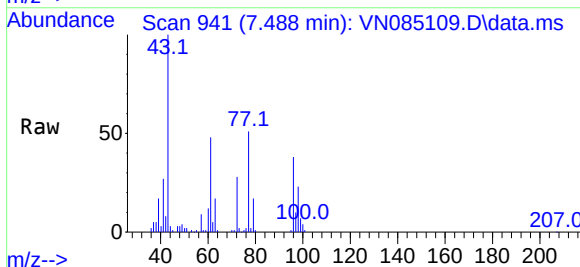
Manual Integrations
APPROVED

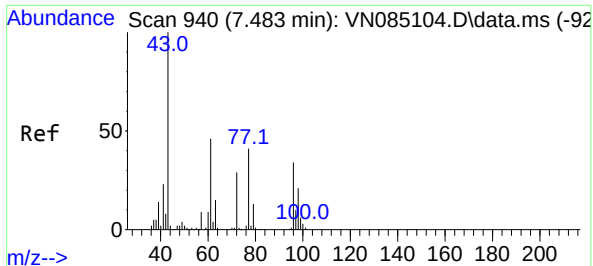
Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024



#26
2,2-Dichloropropane
Concen: 20.007 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085109.D
Acq: 05 Dec 2024 12:13

Tgt Ion: 77 Resp: 62439
Ion Ratio Lower Upper
77 100
97 22.3 10.9 32.7





#27

cis-1,2-Dichloroethene

Concen: 20.781 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.012 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBS01

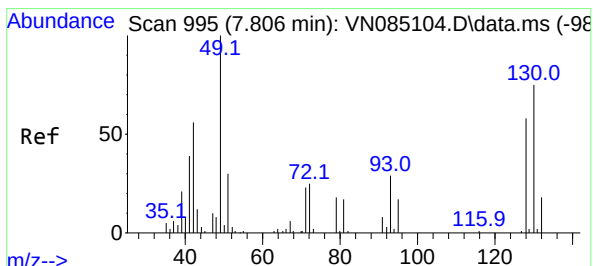
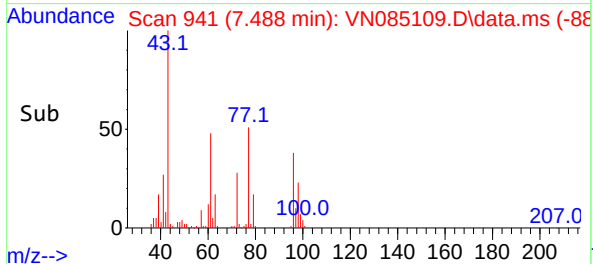
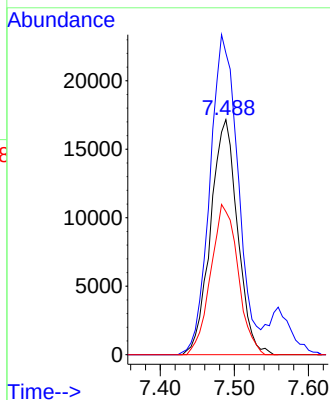
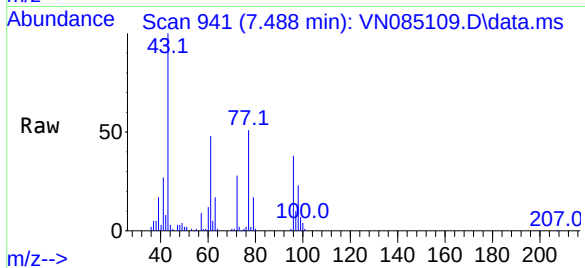
Tgt Ion:	96	Resp:	4339
Ion	Ratio	Lower	Upper
96	100		
61	142.5	0.0	291.6
98	64.5	0.0	129.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#28

Bromochloromethane

Concen: 19.921 ug/l

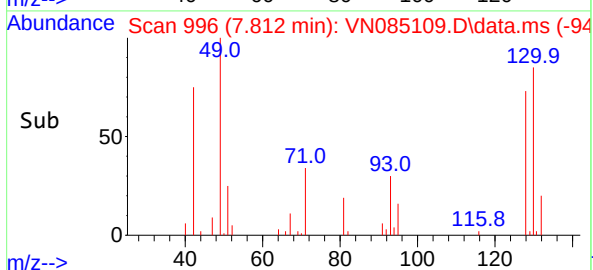
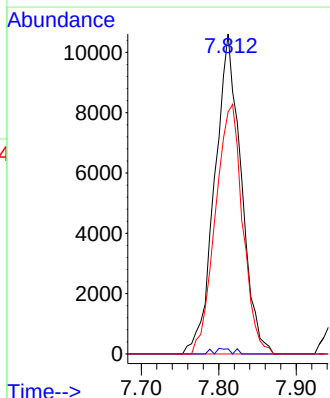
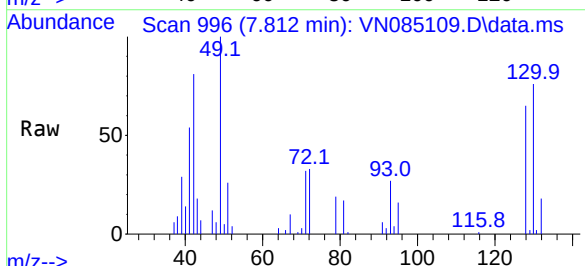
RT: 7.812 min Scan# 996

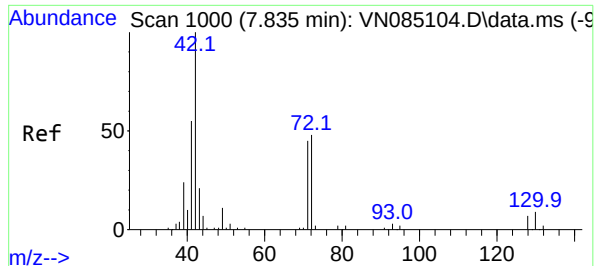
Delta R.T. 0.006 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Tgt Ion:	49	Resp:	25132
Ion	Ratio	Lower	Upper
49	100		
129	1.2	0.0	4.0
130	80.6	60.6	90.8





#29

Tetrahydrofuran

Concen: 127.198 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. -0.000 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Instrument :

MSVOA_N

ClientSampleId :

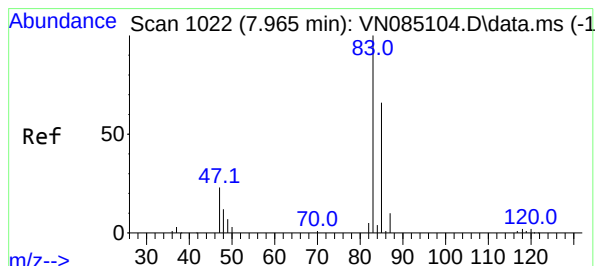
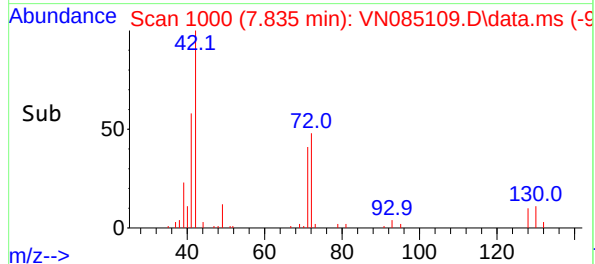
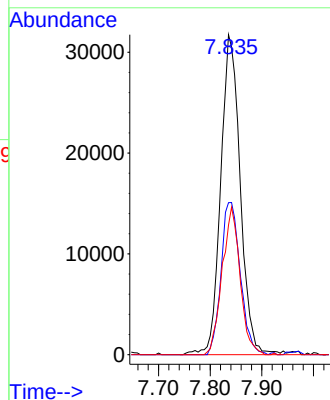
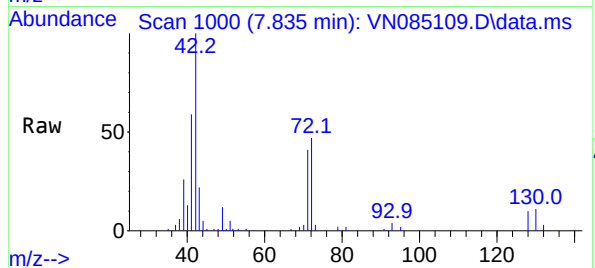
VN1205WBS01

Tgt Ion:	42	Resp:	8320
Ion	Ratio	Lower	Upper
42	100		
72	47.0	37.0	55.4
71	42.4	35.0	52.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#30

Chloroform

Concen: 20.921 ug/l

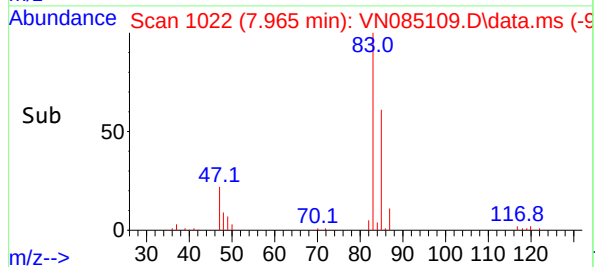
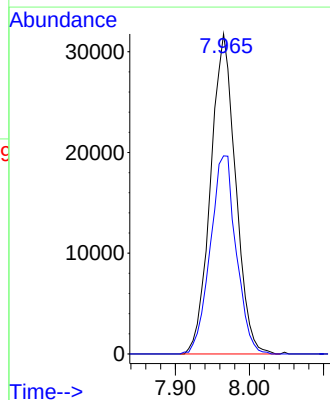
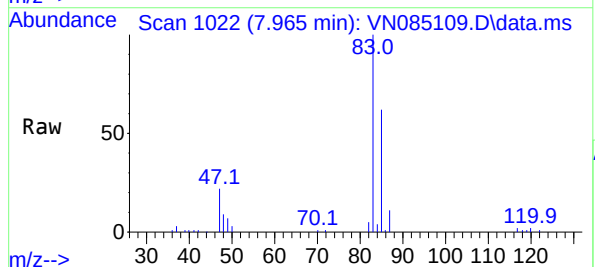
RT: 7.965 min Scan# 1022

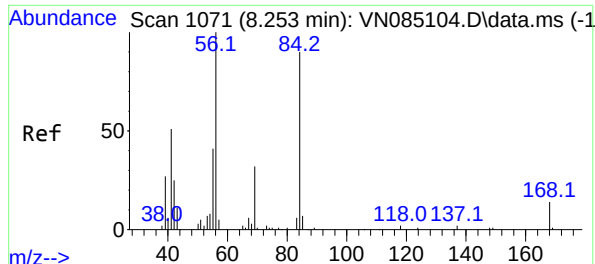
Delta R.T. 0.006 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Tgt Ion:	83	Resp:	74379
Ion	Ratio	Lower	Upper
83	100		
85	61.9	52.6	78.8





#31

Cyclohexane

Concen: 19.617 ug/l

RT: 8.259 min Scan# 1072

Delta R.T. 0.006 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBS01

Tgt Ion: 56 Resp: 57724

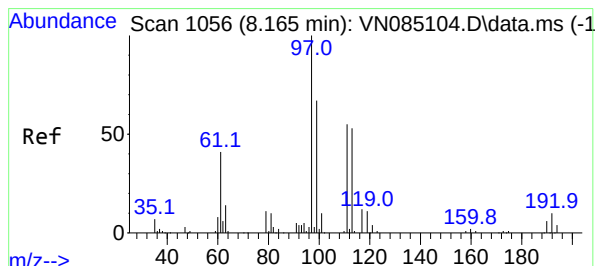
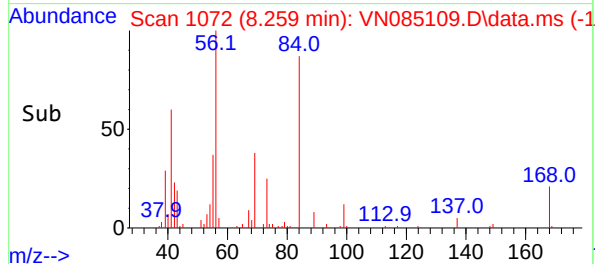
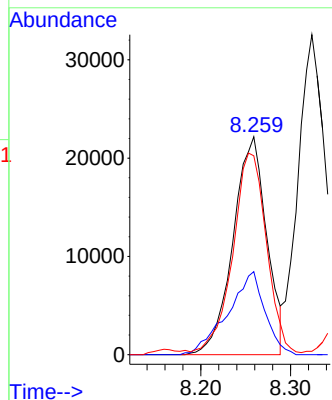
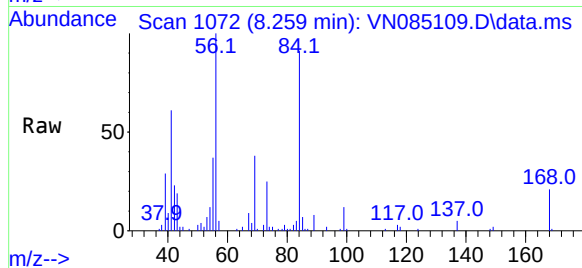
Ion	Ratio	Lower	Upper
56	100		
69	38.1	24.6	36.8
84	89.7	71.4	107.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#32

1,1,1-Trichloroethane

Concen: 21.563 ug/l

RT: 8.171 min Scan# 1057

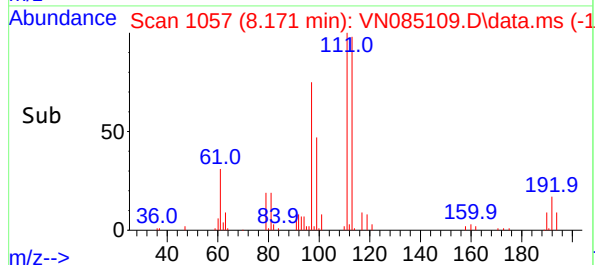
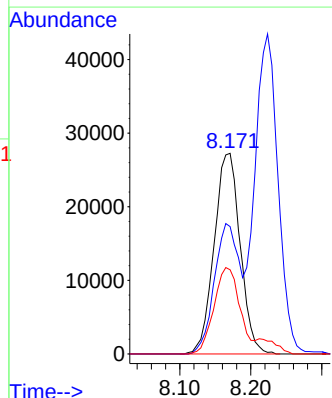
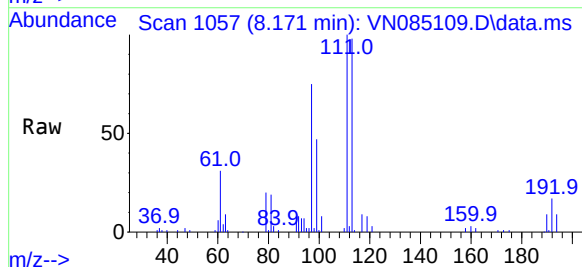
Delta R.T. 0.012 min

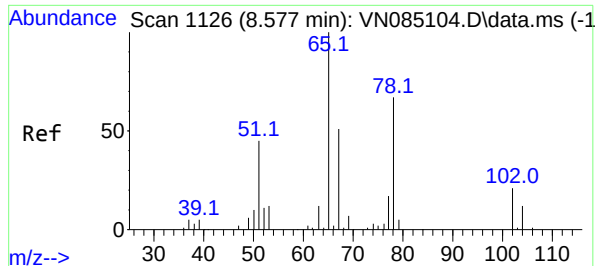
Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Tgt Ion: 97 Resp: 69274

Ion	Ratio	Lower	Upper
97	100		
99	61.9	51.0	76.4
61	43.2	36.2	54.2





#33

1,2-Dichloroethane-d4

Concen: 50.755 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBS01

Tgt Ion: 65 Resp: 112120

Ion Ratio Lower Upper

65 100

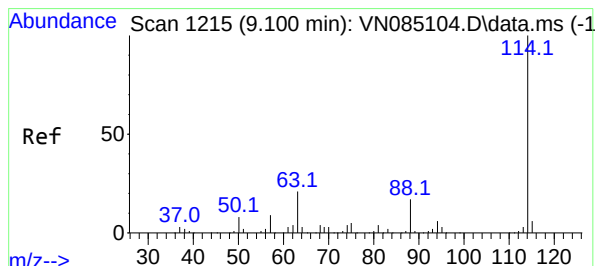
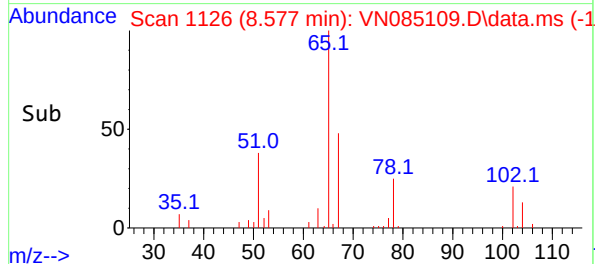
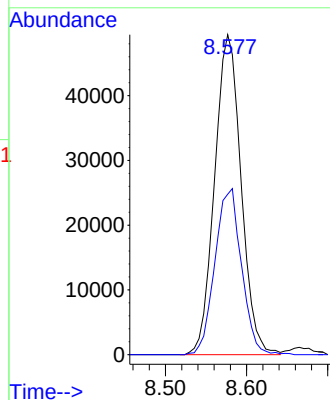
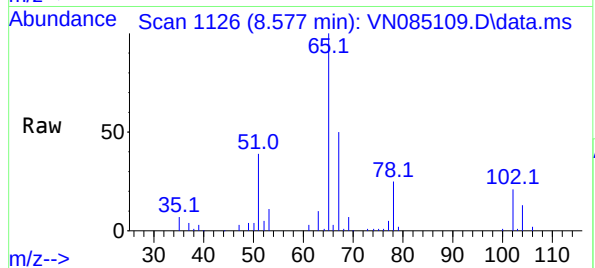
67 52.2 0.0 105.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

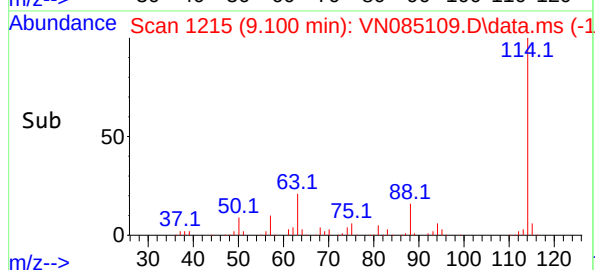
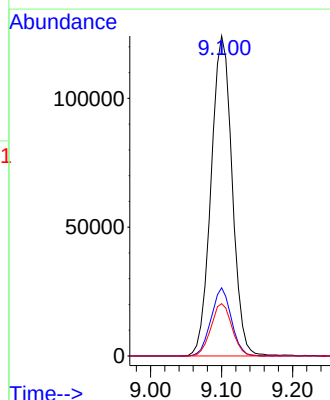
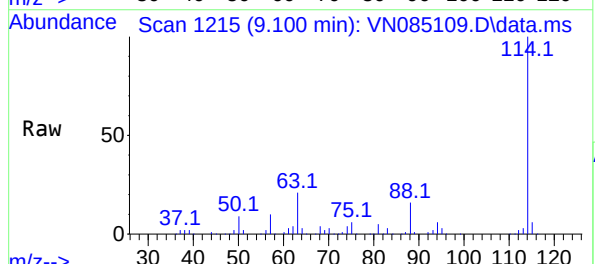
Tgt Ion:114 Resp: 255063

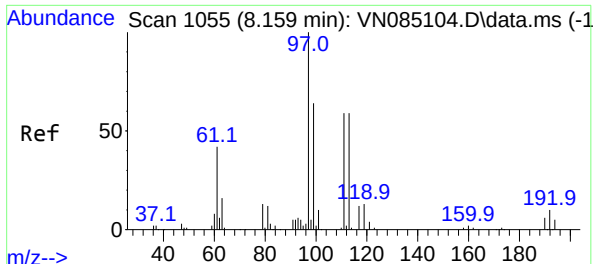
Ion Ratio Lower Upper

114 100

63 21.3 0.0 41.0

88 16.4 0.0 34.8





#35

Dibromofluoromethane

Concen: 53.069 ug/l

RT: 8.165 min Scan# 1055

Delta R.T. 0.006 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBS01

Tgt Ion:113 Resp: 9128

Ion Ratio Lower Upper

113 100

111 101.6 82.0 123.0

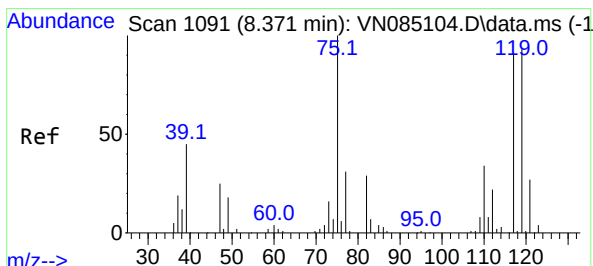
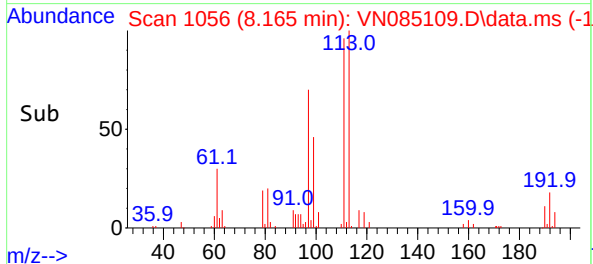
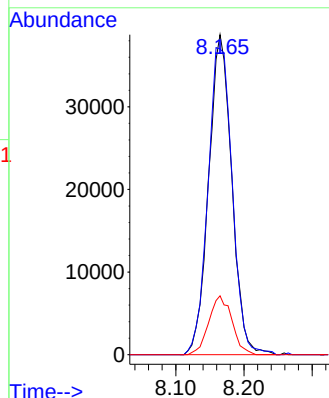
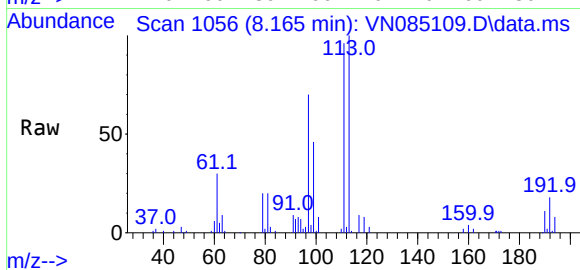
192 18.5 14.8 22.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#36

1,1-Dichloropropene

Concen: 20.650 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

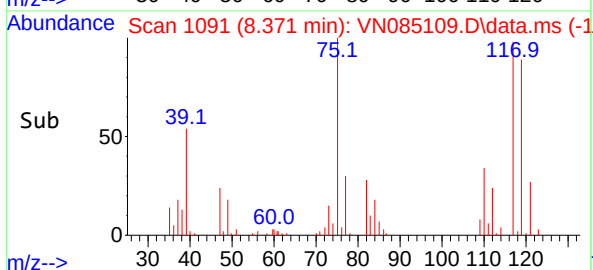
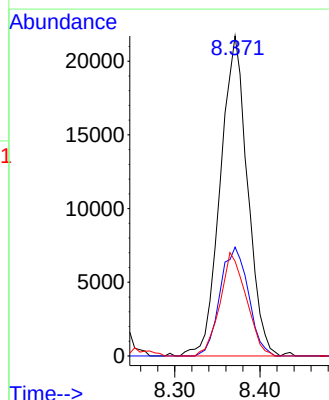
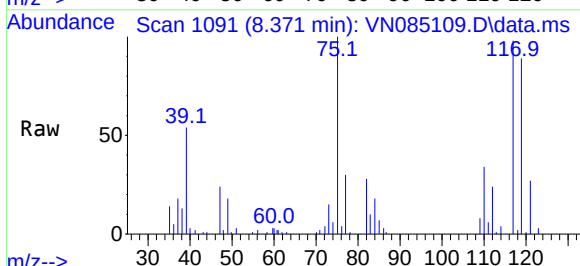
Tgt Ion: 75 Resp: 48110

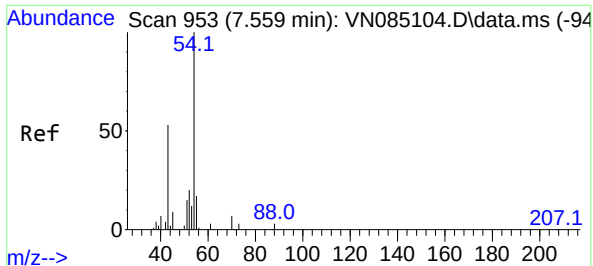
Ion Ratio Lower Upper

75 100

110 35.4 17.2 51.6

77 31.1 24.2 36.4





#37

Ethyl Acetate

Concen: 24.576 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBS01

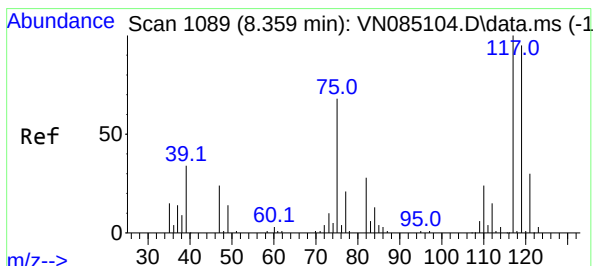
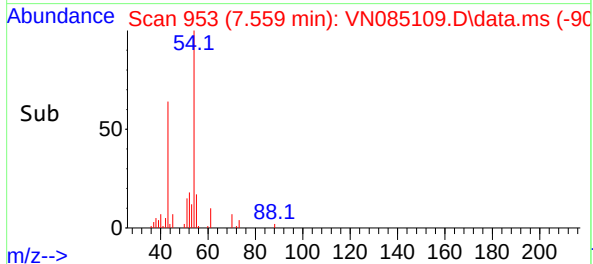
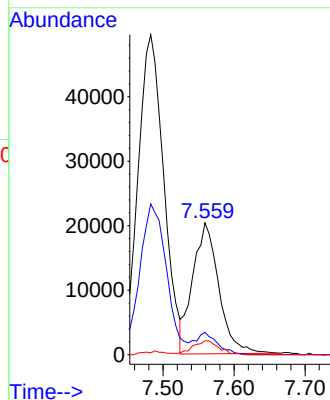
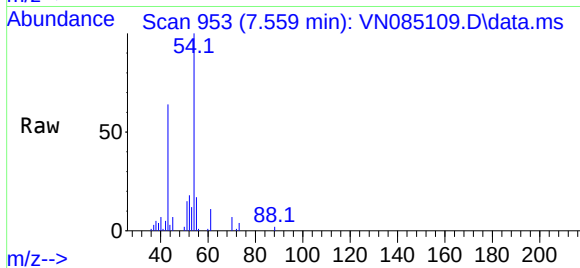
Tgt Ion:	43	Resp:	52054
Ion	Ratio	Lower	Upper
43	100		
61	14.4	11.7	17.5
70	10.5	9.3	13.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#38

Carbon Tetrachloride

Concen: 22.117 ug/l

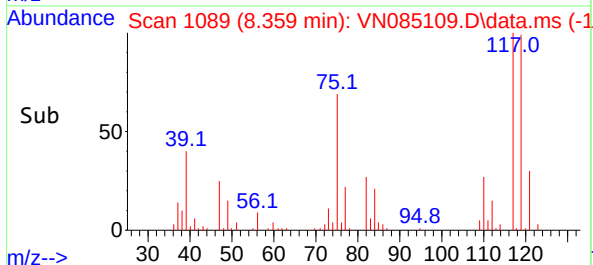
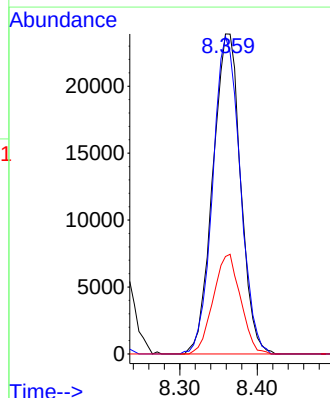
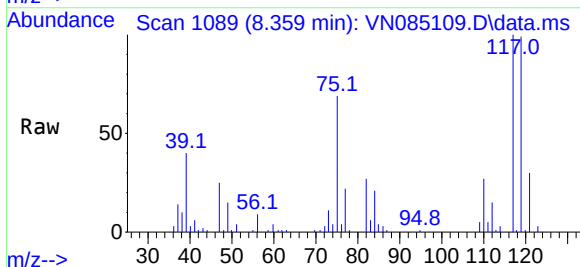
RT: 8.359 min Scan# 1089

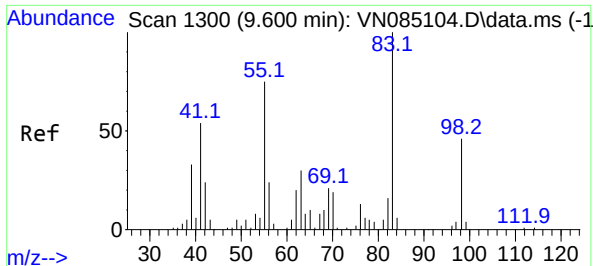
Delta R.T. 0.006 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Tgt Ion:	117	Resp:	59479
Ion	Ratio	Lower	Upper
117	100		
119	99.2	78.6	117.8
121	30.5	24.2	36.2





#39

Methylcyclohexane

Concen: 21.146 ug/l

RT: 9.600 min Scan# 1119

Delta R.T. 0.006 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBS01

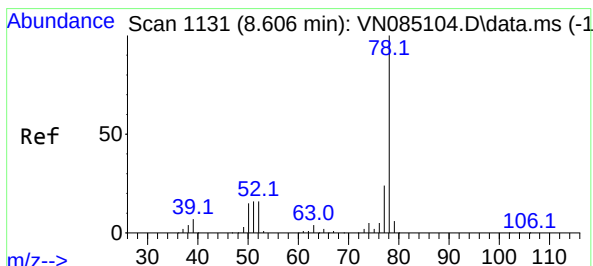
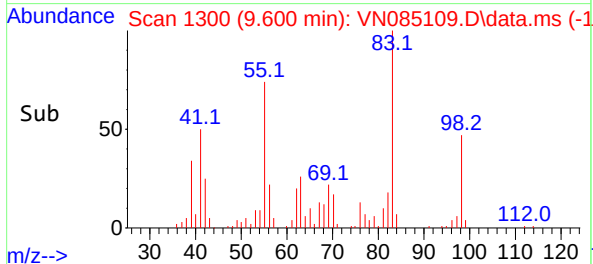
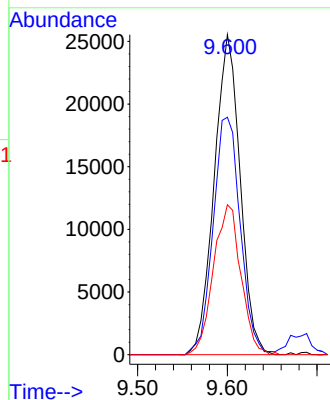
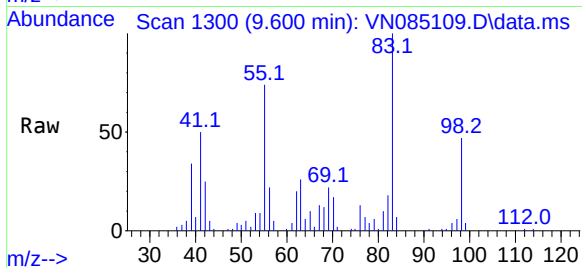
Tgt Ion:	83	Resp:	51194
Ion Ratio	Lower	Upper	
83	100		
55	74.2	61.8	92.6
98	46.8	37.0	55.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#40

Benzene

Concen: 21.508 ug/l

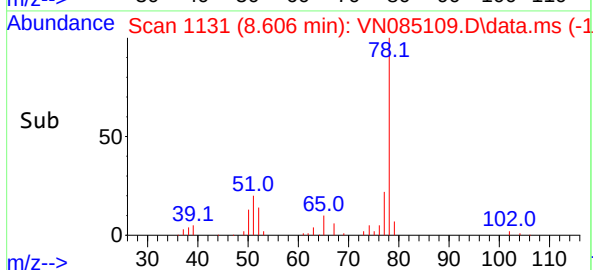
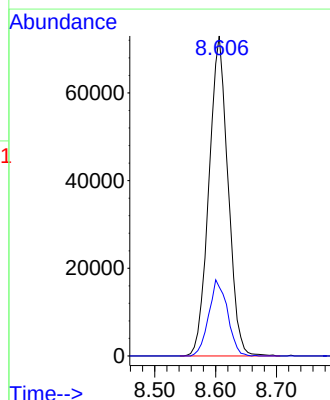
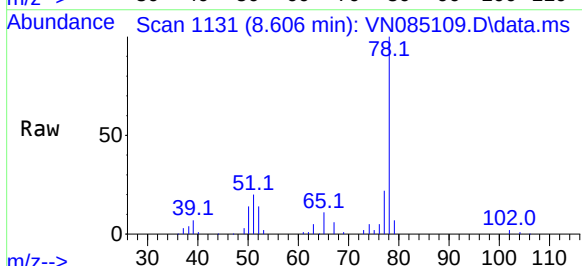
RT: 8.606 min Scan# 1131

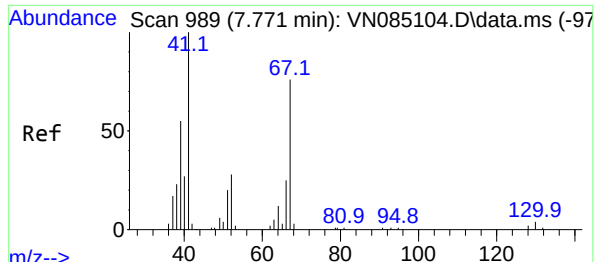
Delta R.T. 0.006 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Tgt Ion:	78	Resp:	158488
Ion Ratio	Lower	Upper	
78	100		
77	21.6	18.5	27.7





#41

Methacrylonitrile

Concen: 22.586 ug/l

RT: 7.783 min Scan# 91

Delta R.T. 0.012 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBS01

Tgt Ion: 41 Resp: 2648

Ion Ratio Lower Upper

41 100

39 56.8 42.6 63.8

67 79.9 59.9 89.9

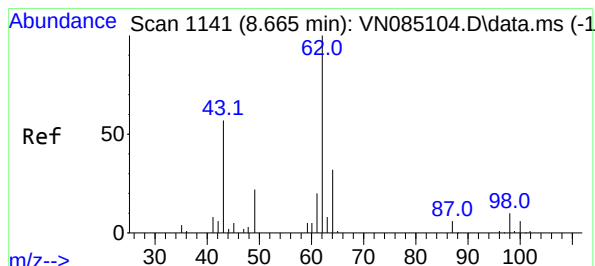
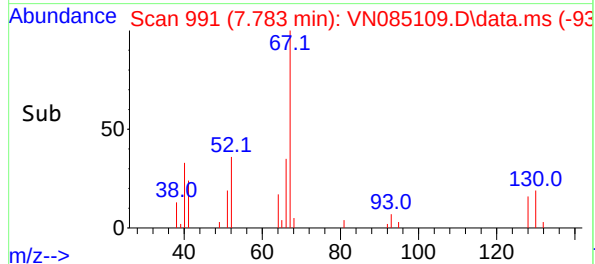
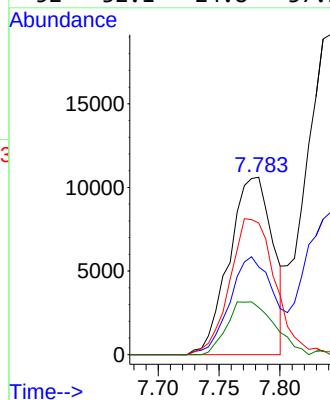
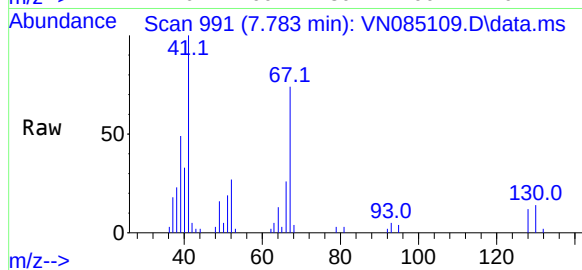
52 32.1 24.8 37.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#42

1,2-Dichloroethane

Concen: 22.861 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. 0.006 min

Lab File: VN085109.D

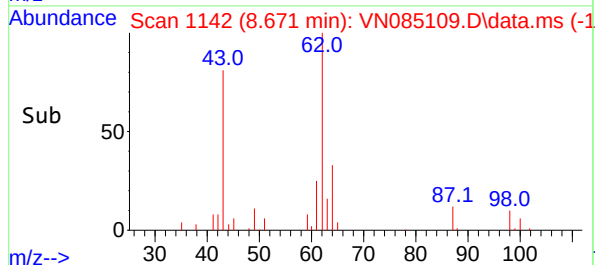
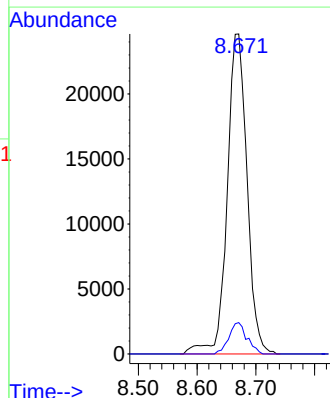
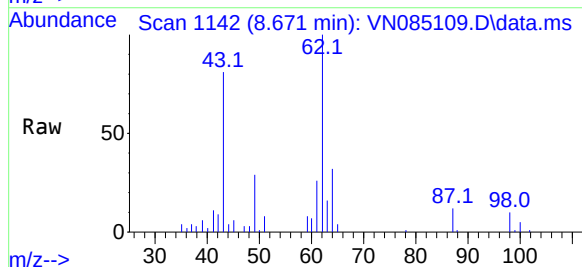
Acq: 05 Dec 2024 12:13

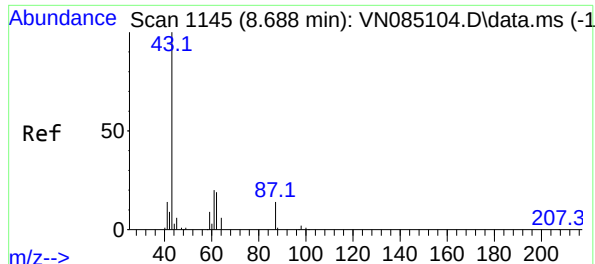
Tgt Ion: 62 Resp: 57630

Ion Ratio Lower Upper

62 100

98 8.9 0.0 18.2





#43

Isopropyl Acetate

Concen: 20.536 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.006 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Instrument :

MSVOA_N

ClientSampleId :

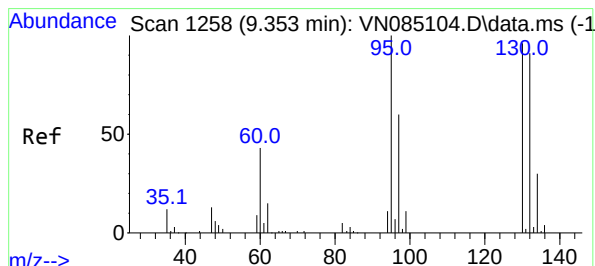
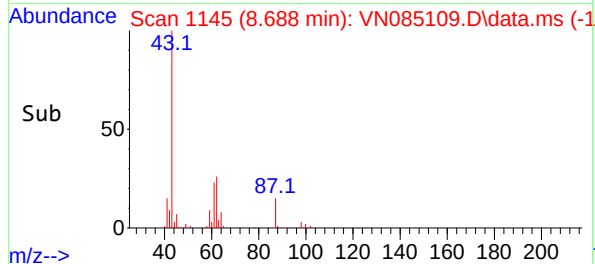
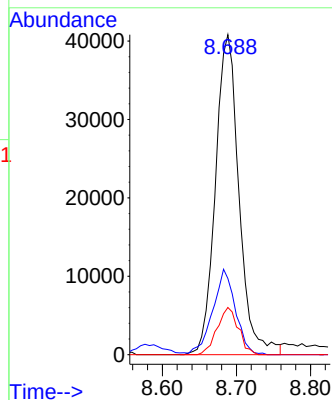
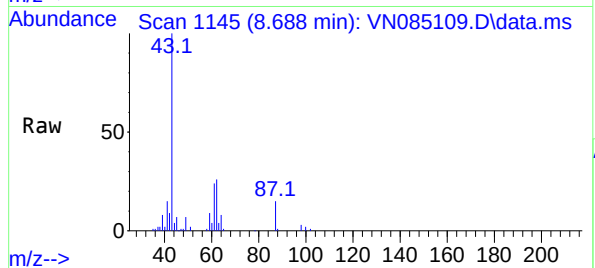
VN1205WBS01

Tgt Ion: 43	Resp: 90350
Ion Ratio	Lower Upper
43	100
61	25.8 20.6 30.8
87	13.3 11.0 16.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#44

Trichloroethene

Concen: 21.834 ug/l

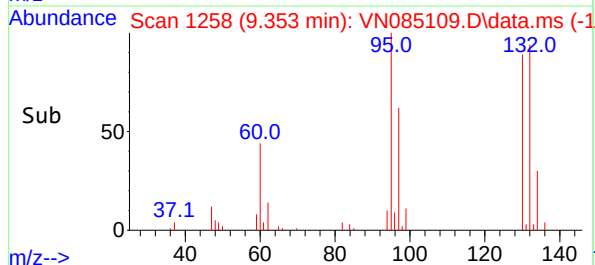
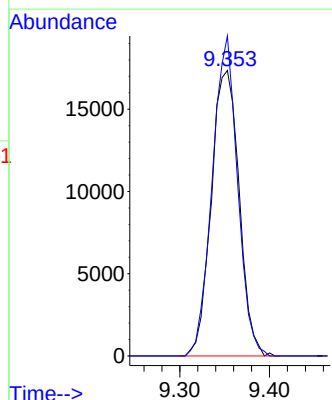
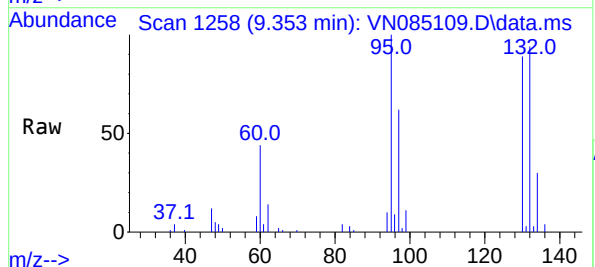
RT: 9.353 min Scan# 1258

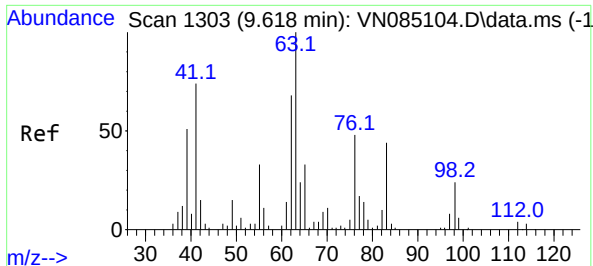
Delta R.T. 0.006 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Tgt Ion:130	Resp: 37390
Ion Ratio	Lower Upper
130	100
95	112.1 0.0 213.4





#45

1,2-Dichloropropane

Concen: 20.963 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBS01

Tgt Ion: 63 Resp: 3804

Ion Ratio Lower Upper

63 100

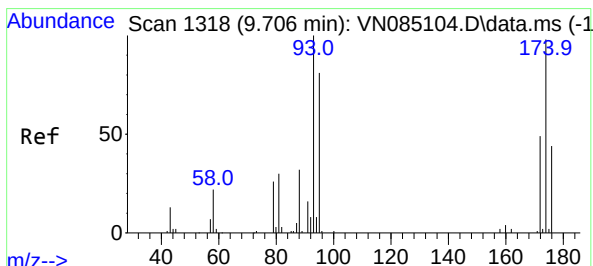
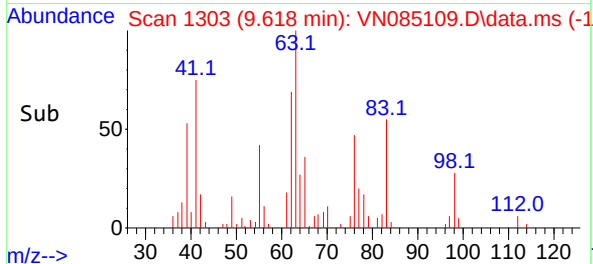
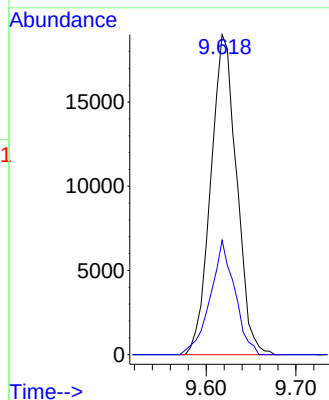
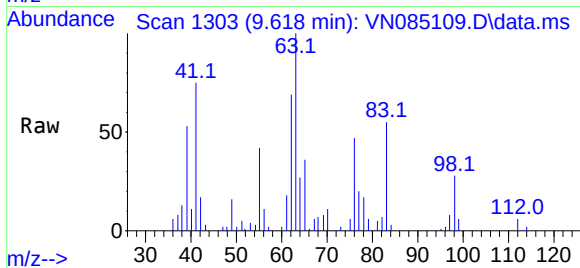
65 35.7 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#46

Dibromomethane

Concen: 21.532 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

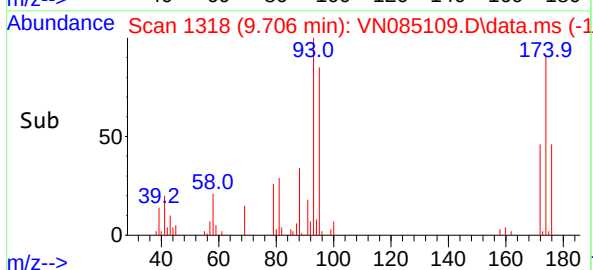
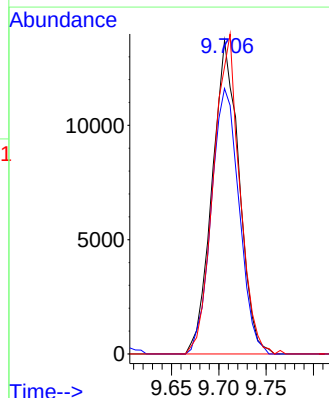
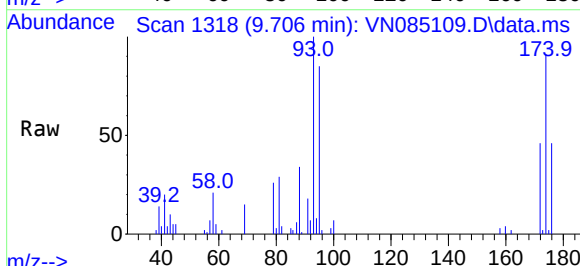
Tgt Ion: 93 Resp: 27155

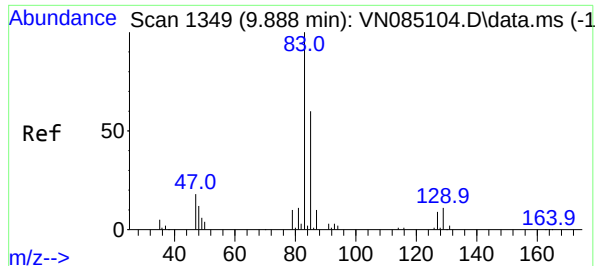
Ion Ratio Lower Upper

93 100

95 87.1 66.2 99.4

174 98.7 74.9 112.3





#47

Bromodichloromethane

Concen: 22.322 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. 0.006 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Instrument :

MSVOA_N

ClientSampleId :

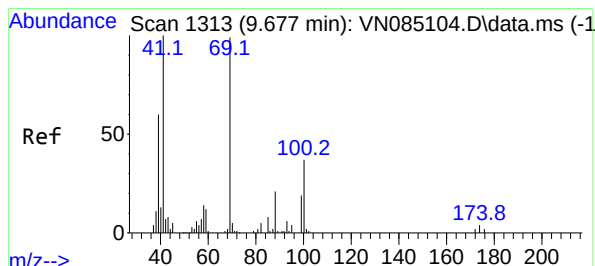
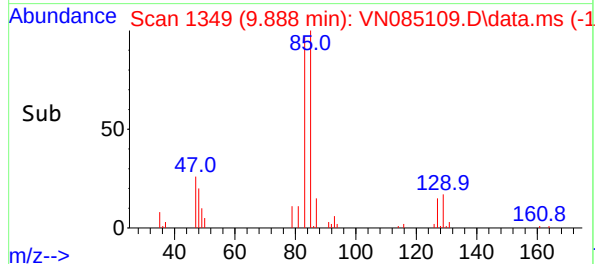
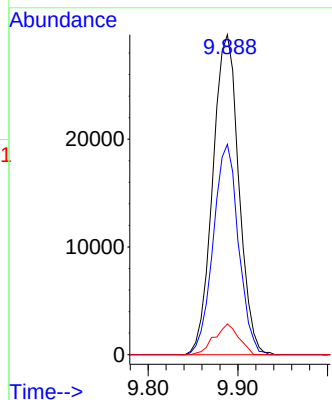
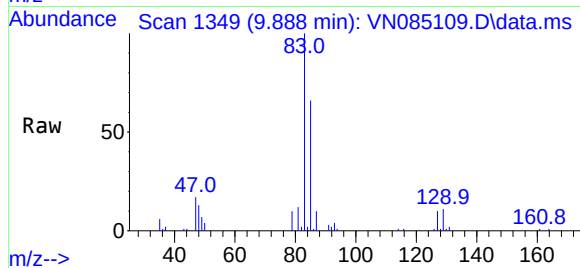
VN1205WBS01

Tgt Ion:	83	Resp:	5966
Ion	Ratio	Lower	Upper
83	100		
85	65.7	50.5	75.7
127	9.6	7.1	10.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#48

Methyl methacrylate

Concen: 24.015 ug/l

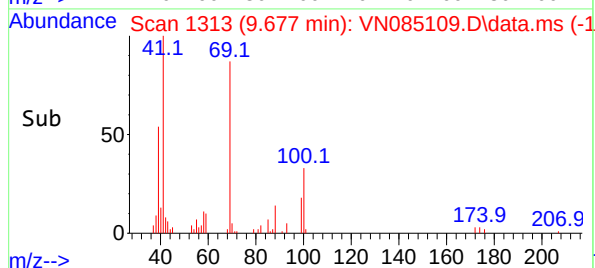
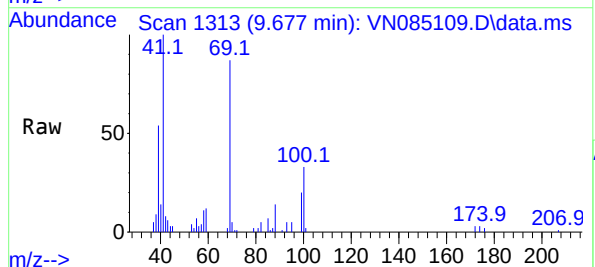
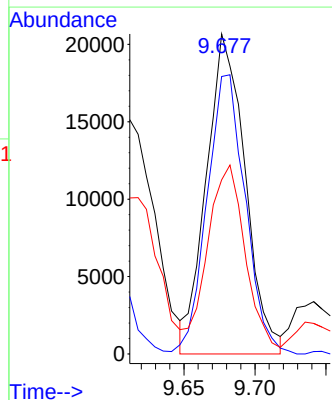
RT: 9.677 min Scan# 1313

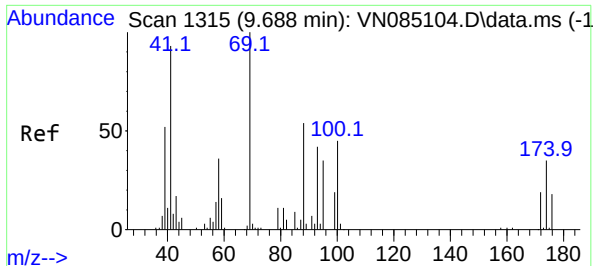
Delta R.T. -0.000 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Tgt Ion:	41	Resp:	39316
Ion	Ratio	Lower	Upper
41	100		
69	86.0	73.2	109.8
39	58.4	46.2	69.4





#49

1,4-Dioxane

Concen: 502.968 ug/l

RT: 9.694 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBS01

Tgt Ion: 88 Resp: 14280

Ion Ratio Lower Upper

88 100

43 30.9 16.7 25.1

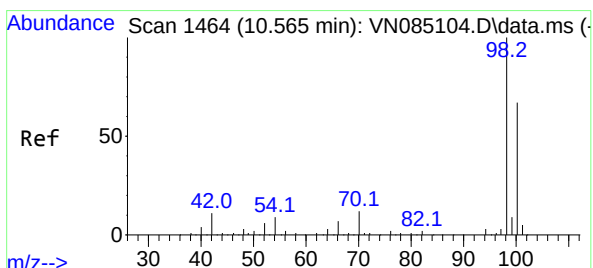
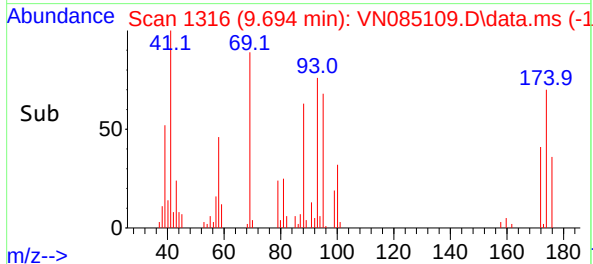
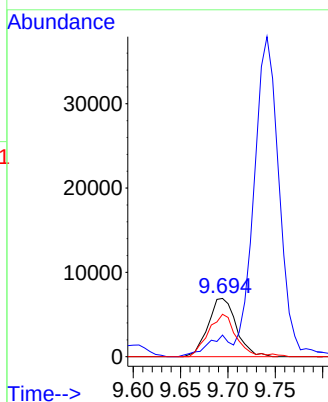
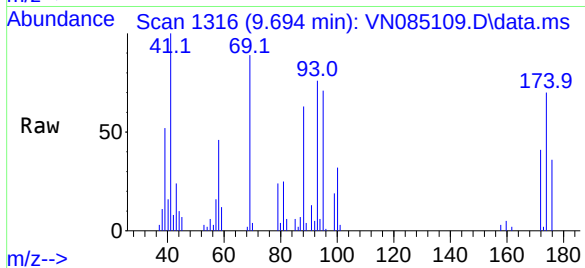
58 73.1 56.5 84.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#50

Toluene-d8

Concen: 50.839 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085109.D

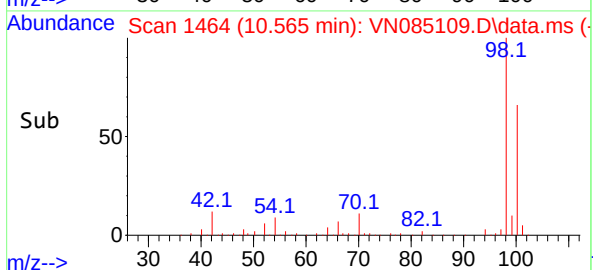
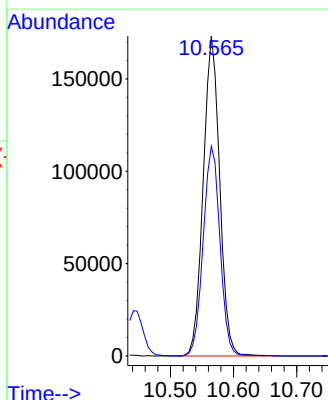
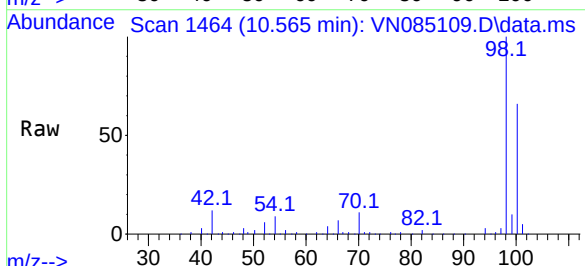
Acq: 05 Dec 2024 12:13

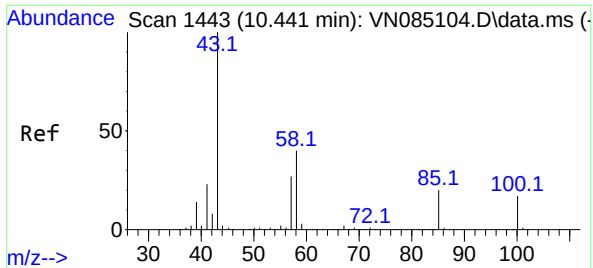
Tgt Ion: 98 Resp: 313386

Ion Ratio Lower Upper

98 100

100 66.7 52.5 78.7





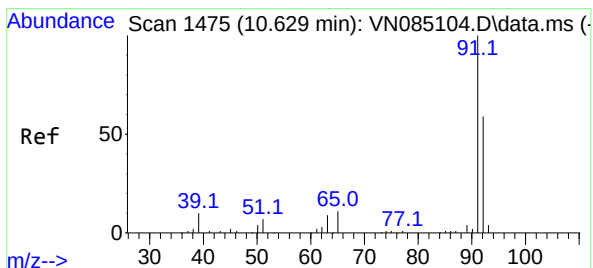
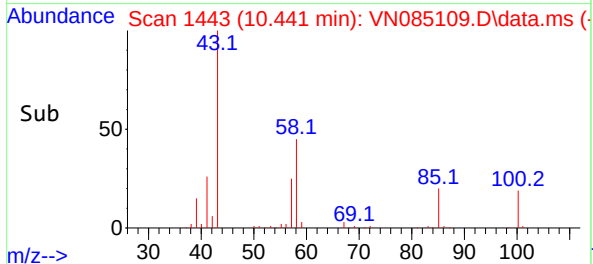
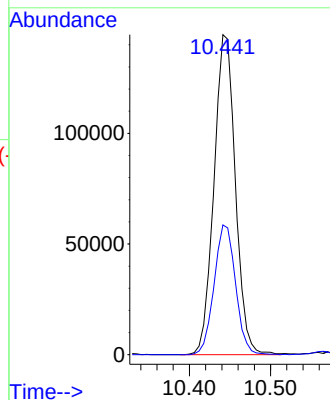
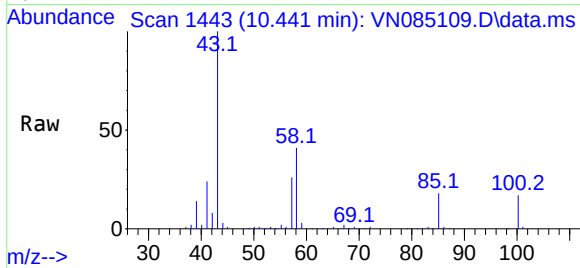
#51
4-Methyl-2-Pentanone
Concen: 132.006 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085109.D
Acq: 05 Dec 2024 12:13

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBS01

Tgt Ion: 43 Resp: 26526
Ion Ratio Lower Upper
43 100
58 40.6 32.1 48.1

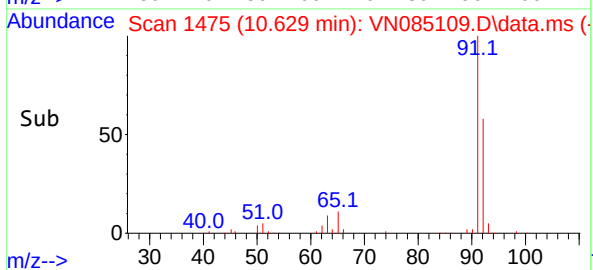
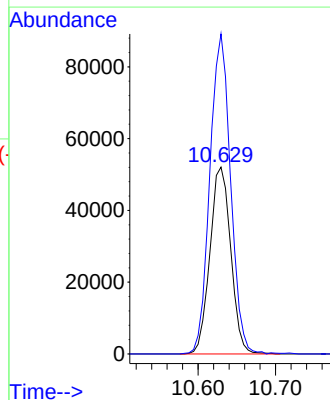
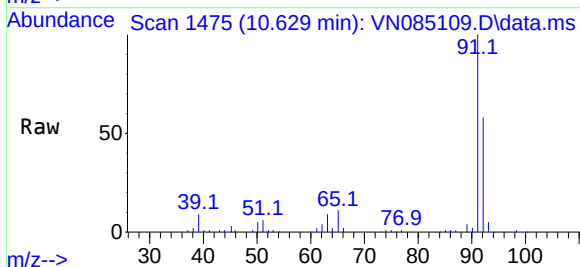
Manual Integrations
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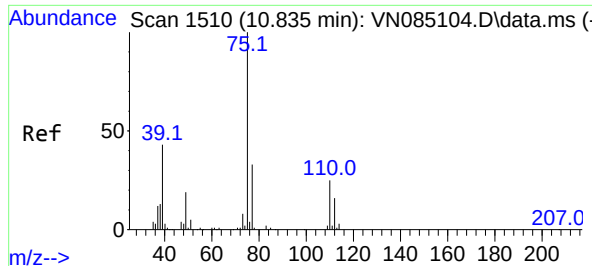
Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024



#52
Toluene
Concen: 22.290 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN085109.D
Acq: 05 Dec 2024 12:13

Tgt Ion: 92 Resp: 97234
Ion Ratio Lower Upper
92 100
91 170.2 136.7 205.1





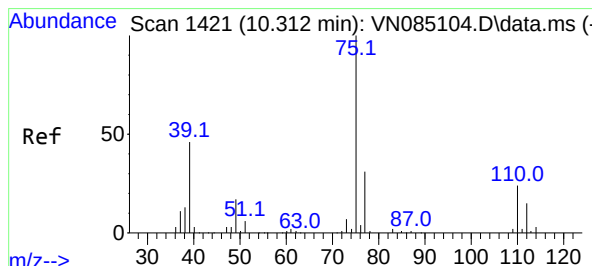
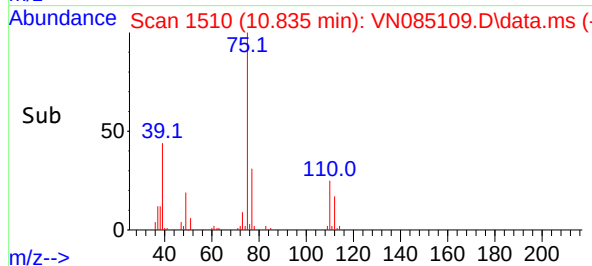
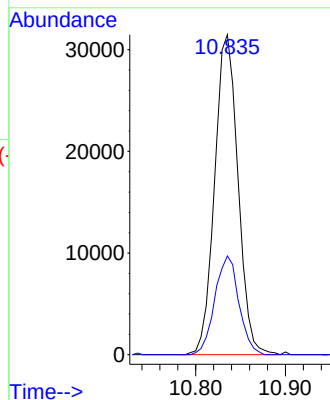
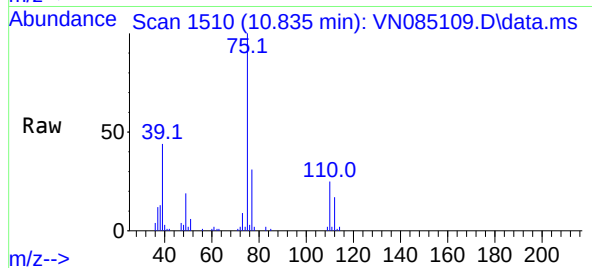
#53
t-1,3-Dichloropropene
Concen: 21.224 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VN085109.D
Acq: 05 Dec 2024 12:13

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBS01

Tgt Ion: 75 Resp: 56874
Ion Ratio Lower Upper
75 100
77 30.8 25.0 37.4

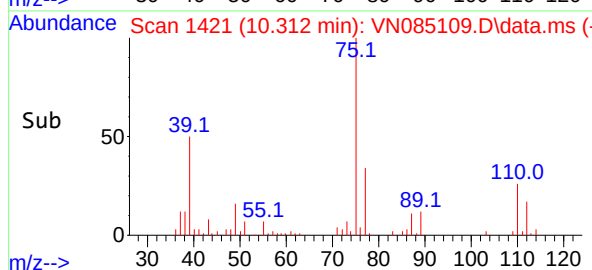
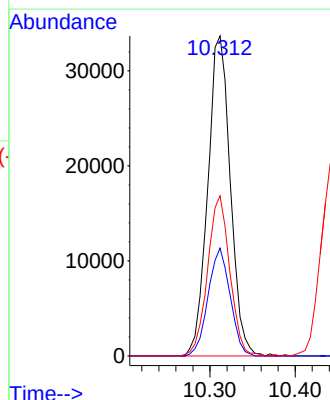
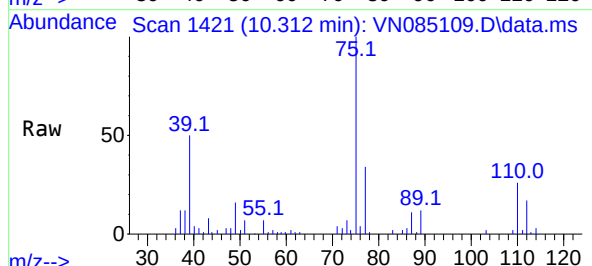
Manual Integrations
APPROVED

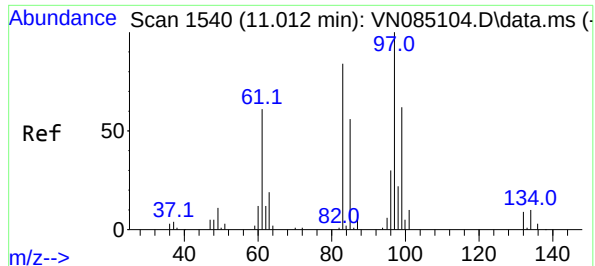
Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024



#54
cis-1,3-Dichloropropene
Concen: 21.763 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN085109.D
Acq: 05 Dec 2024 12:13

Tgt Ion: 75 Resp: 61868
Ion Ratio Lower Upper
75 100
77 33.7 25.0 37.4
39 50.1 37.6 56.4





#55

1,1,2-Trichloroethane

Concen: 23.845 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.000 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Tgt Ion: 97 Resp: 38744

Ion Ratio Lower Upper

97 100

83 85.8 67.4 101.2

85 55.1 43.1 64.7

99 65.6 50.9 76.3

Instrument :

MSVOA_N

ClientSampleId :

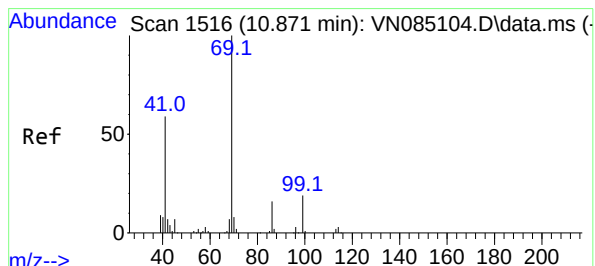
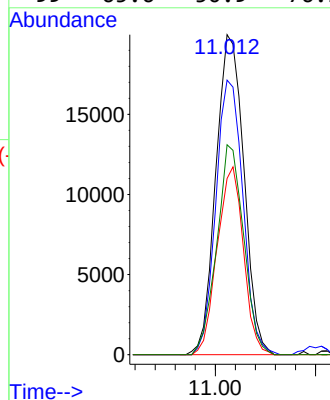
VN1205WBS01

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#56

Ethyl methacrylate

Concen: 23.846 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

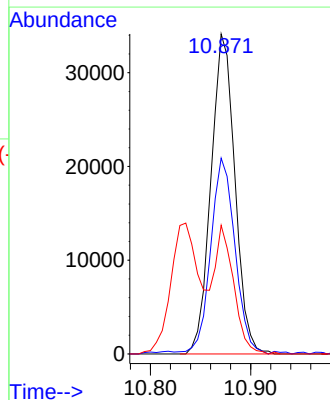
Tgt Ion: 69 Resp: 56618

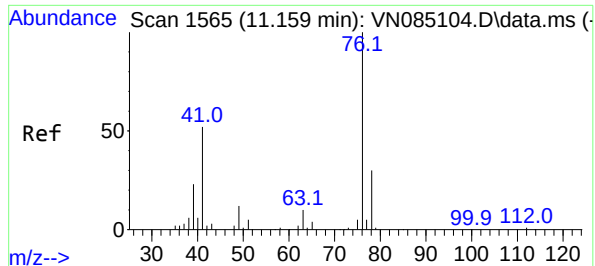
Ion Ratio Lower Upper

69 100

41 62.3 50.0 75.0

39 31.0 27.0 40.6





#57

1,3-Dichloropropane

Concen: 21.930 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. -0.000 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBS01

Tgt Ion: 76 Resp: 6271

Ion Ratio Lower Upper

76 100

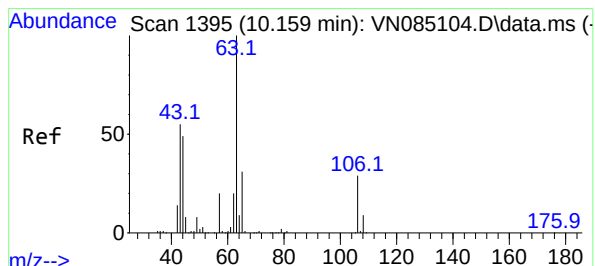
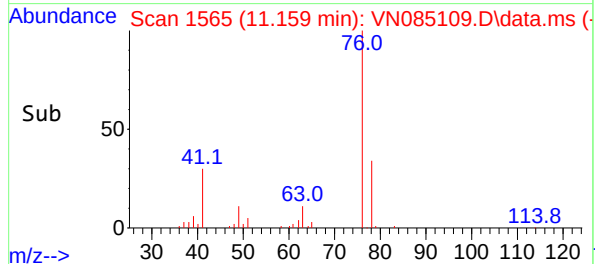
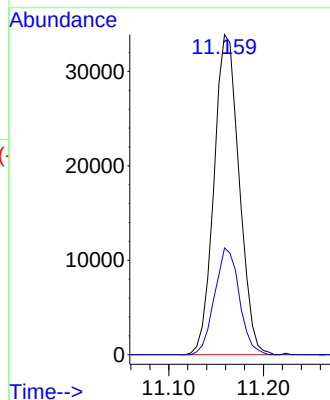
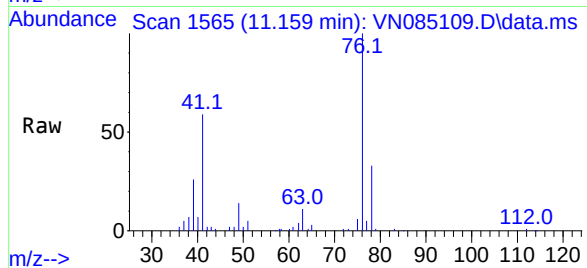
78 32.6 26.1 39.1

Manual Integrations

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Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#58

2-Chloroethyl Vinyl ether

Concen: 108.616 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN085109.D

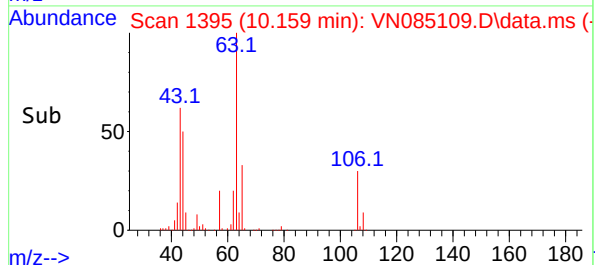
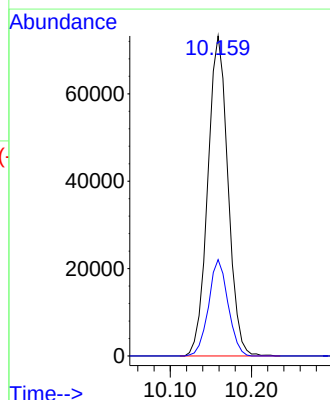
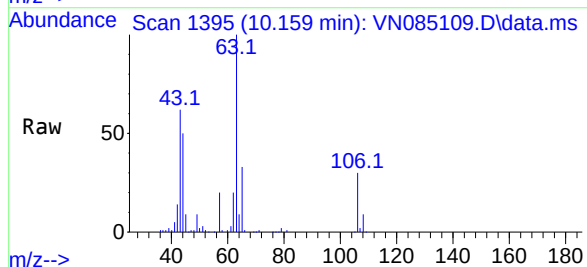
Acq: 05 Dec 2024 12:13

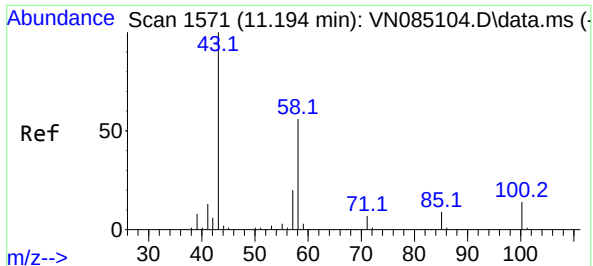
Tgt Ion: 63 Resp: 126501

Ion Ratio Lower Upper

63 100

106 29.0 23.0 34.6





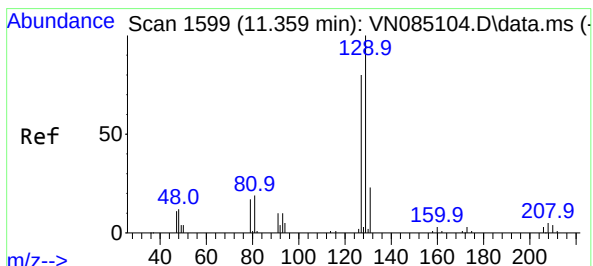
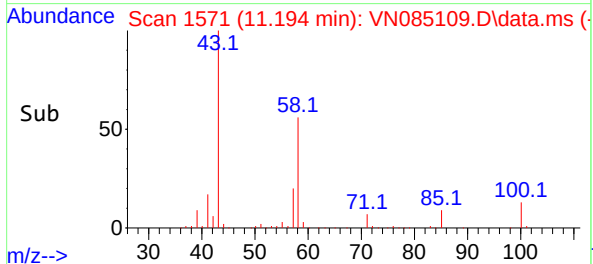
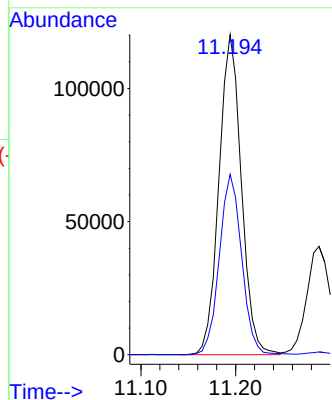
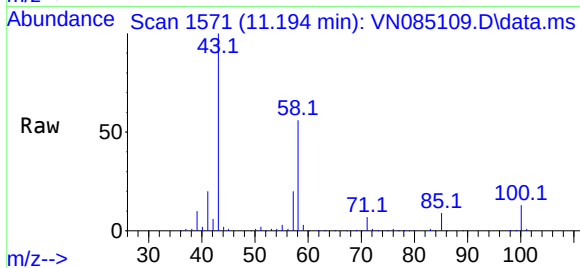
#59
2-Hexanone
Concen: 131.504 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN085109.D
Acq: 05 Dec 2024 12:13

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBS01

Tgt Ion: 43 Resp: 197640
Ion Ratio Lower Upper
43 100
58 56.2 28.3 85.0

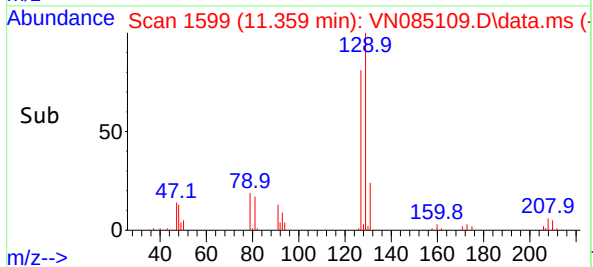
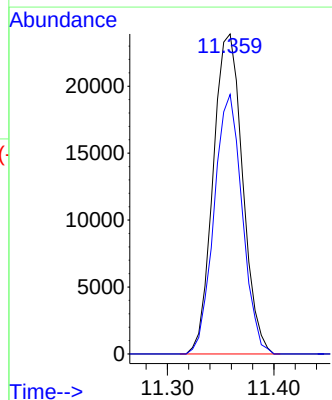
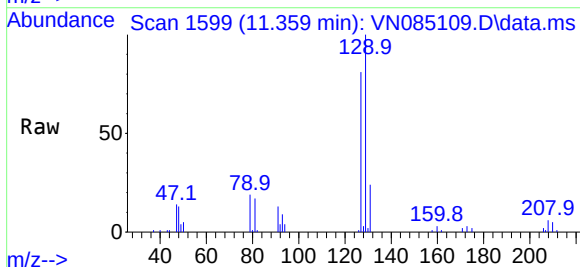
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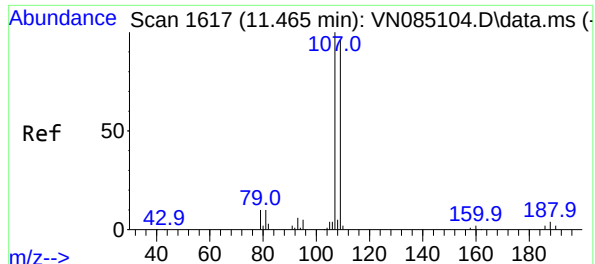
Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024



#60
Dibromochloromethane
Concen: 23.139 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN085109.D
Acq: 05 Dec 2024 12:13

Tgt Ion:129 Resp: 45949
Ion Ratio Lower Upper
129 100
127 77.5 39.2 117.6





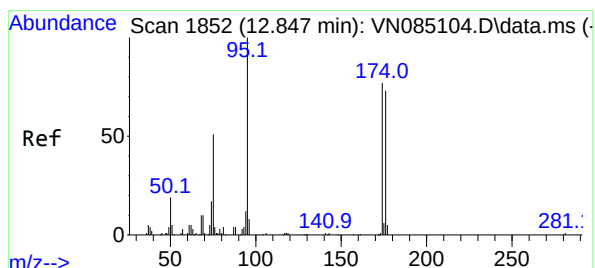
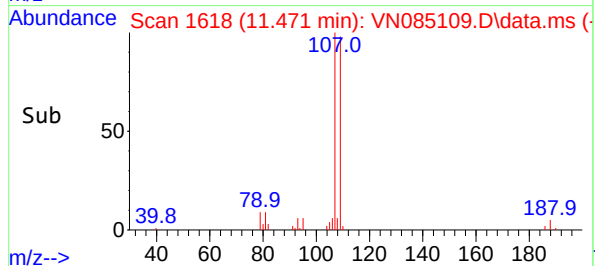
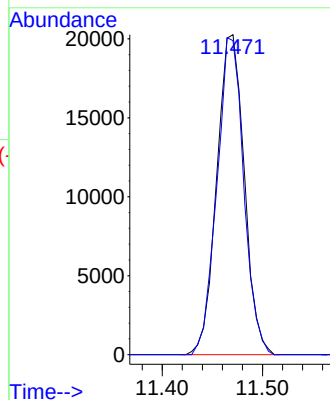
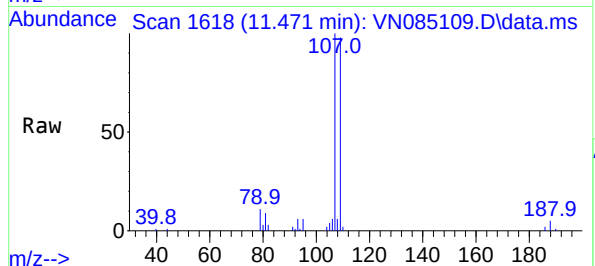
#61
1,2-Dibromoethane
Concen: 22.953 ug/l
RT: 11.471 min Scan# 1617
Delta R.T. 0.006 min
Lab File: VN085109.D
Acq: 05 Dec 2024 12:13

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBS01

Tgt Ion:107 Resp: 3859
Ion Ratio Lower Upper
107 100
109 96.4 76.1 114.1

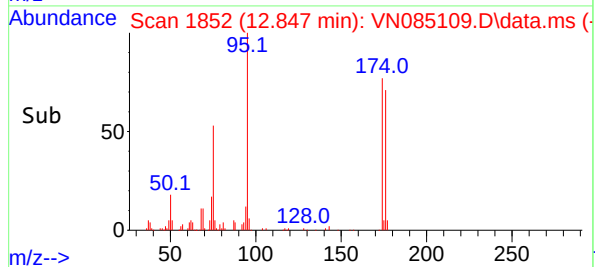
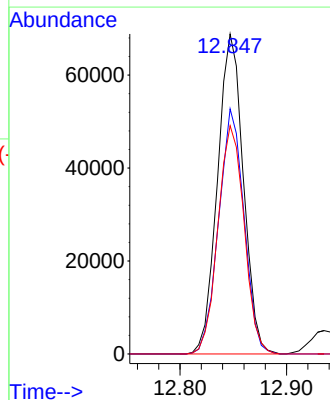
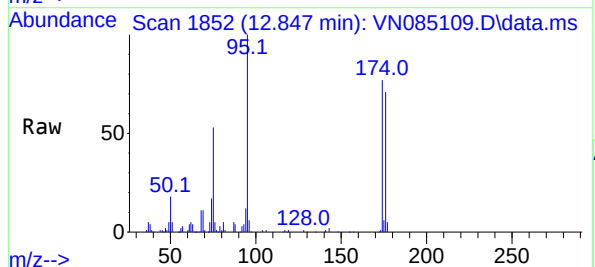
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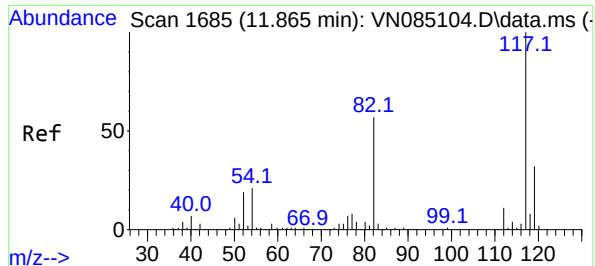
Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024



#62
4-Bromofluorobenzene
Concen: 50.183 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085109.D
Acq: 05 Dec 2024 12:13

Tgt Ion: 95 Resp: 115683
Ion Ratio Lower Upper
95 100
174 75.1 0.0 146.6
176 72.3 0.0 141.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. 0.006 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBS01

Tgt Ion:117 Resp: 21829

Ion Ratio Lower Upper

117 100

82 59.2 46.0 69.0

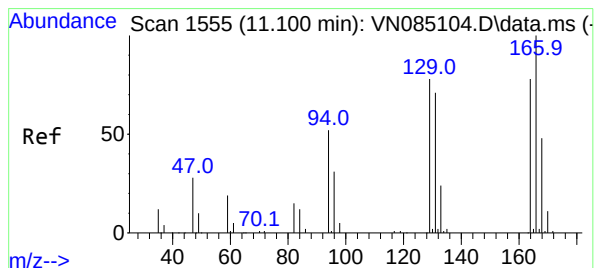
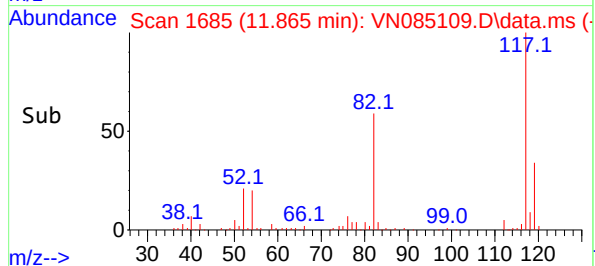
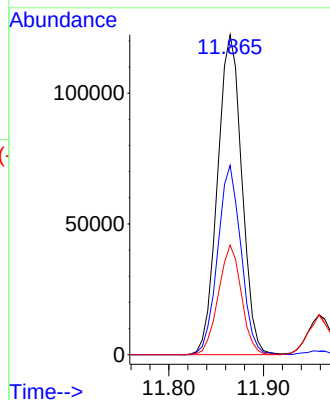
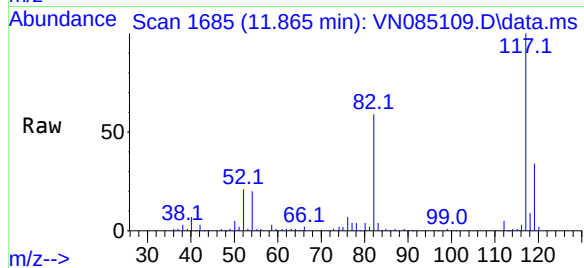
119 34.3 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#64

Tetrachloroethene

Concen: 24.187 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Tgt Ion:164 Resp: 35577

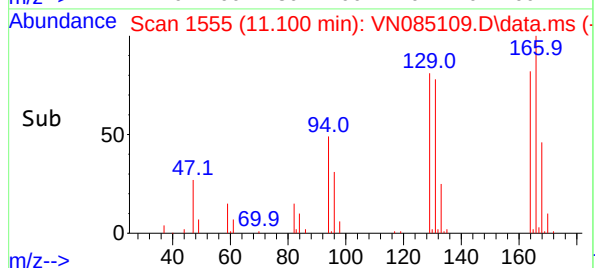
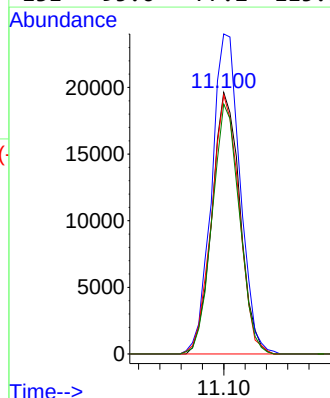
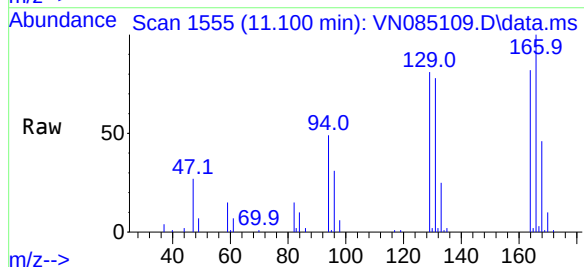
Ion Ratio Lower Upper

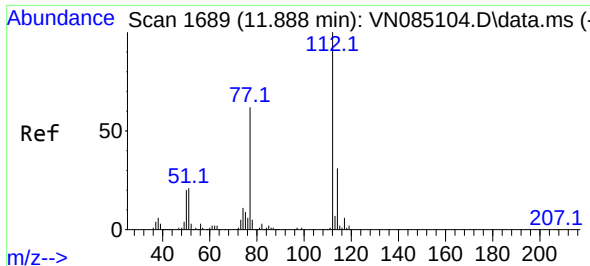
164 100

166 122.4 100.6 151.0

129 99.0 77.7 116.5

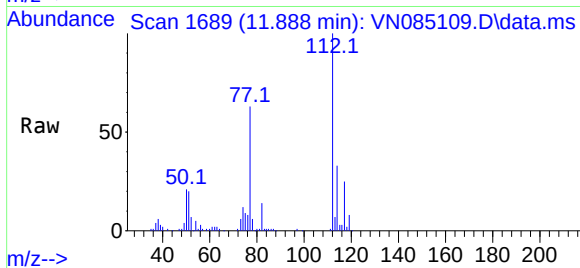
131 95.6 77.2 115.8





#65
Chlorobenzene
Concen: 20.943 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN085109.D
Acq: 05 Dec 2024 12:13

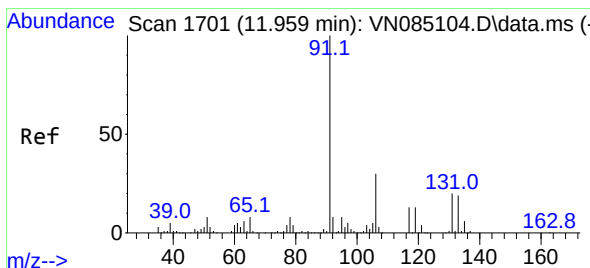
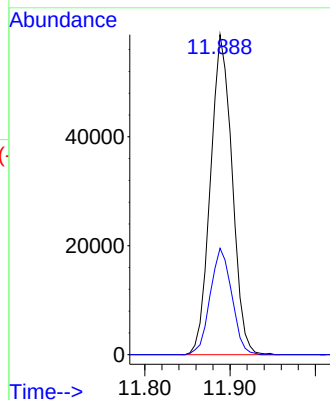
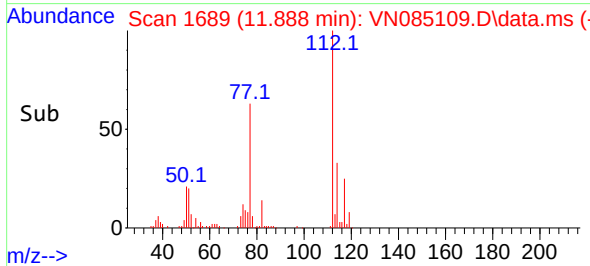
Instrument :
MSVOA_N
ClientSampleId :
VN1205WBS01



Tgt Ion:112 Resp: 10368
Ion Ratio Lower Upper
112 100
114 33.3 25.8 38.6

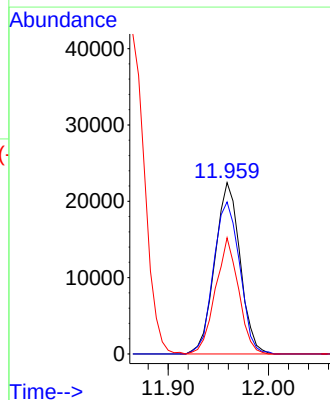
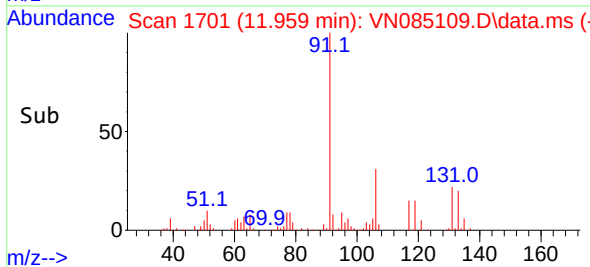
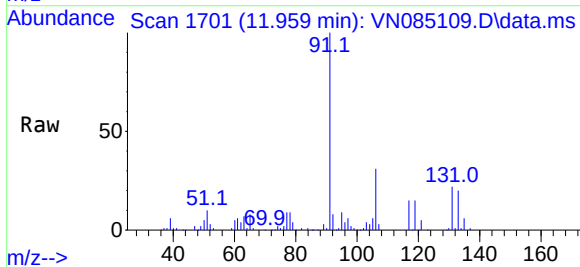
Manual Integrations
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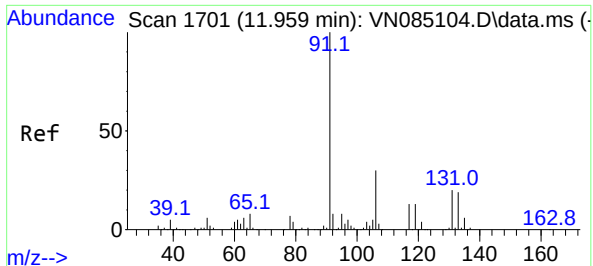
Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024



#66
1,1,1,2-Tetrachloroethane
Concen: 22.548 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085109.D
Acq: 05 Dec 2024 12:13

Tgt Ion:131 Resp: 39302
Ion Ratio Lower Upper
131 100
133 92.1 47.8 143.4
119 62.1 32.1 96.3





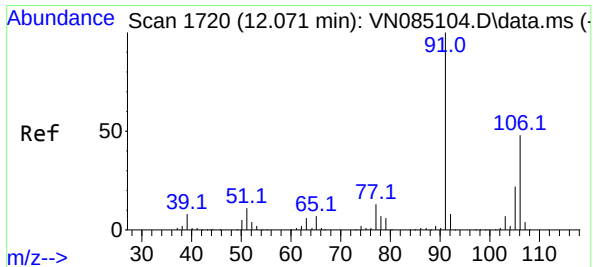
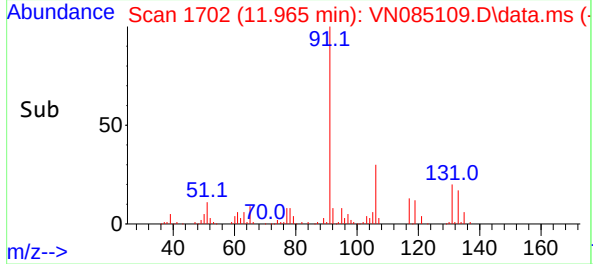
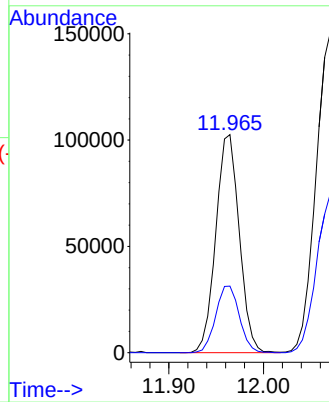
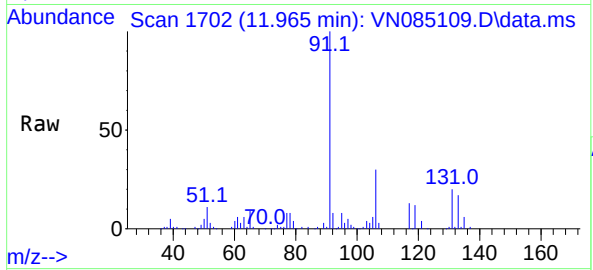
#67
Ethyl Benzene
Concen: 22.019 ug/l
RT: 11.965 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VN085109.D
Acq: 05 Dec 2024 12:13

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBS01

Tgt Ion: 91 Resp: 176852
Ion Ratio Lower Upper
91 100
106 30.5 24.7 37.1

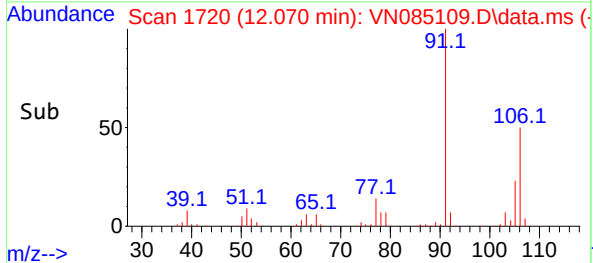
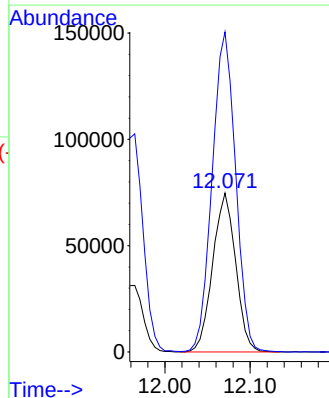
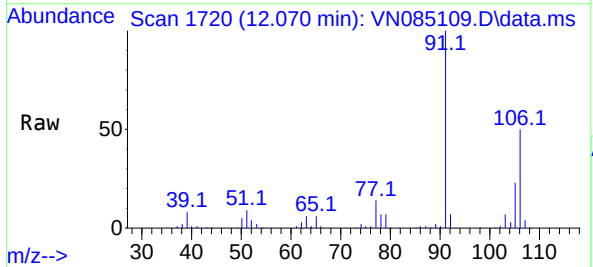
Manual Integrations
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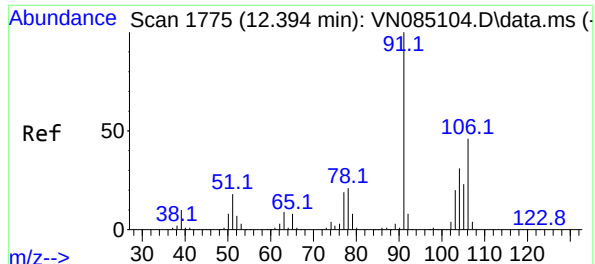
Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024



#68
m/p-Xylenes
Concen: 45.738 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN085109.D
Acq: 05 Dec 2024 12:13

Tgt Ion:106 Resp: 139860
Ion Ratio Lower Upper
106 100
91 205.8 168.0 252.0





#69

o-Xylene

Concen: 22.547 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBS01

Tgt Ion:106 Resp: 6558

Ion Ratio Lower Upper

106 100

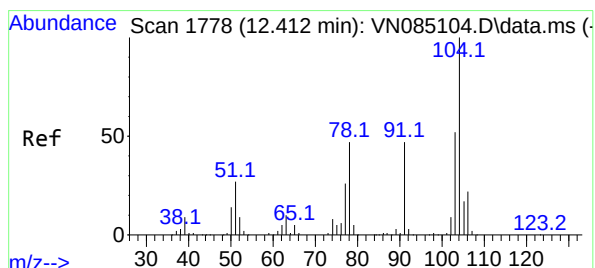
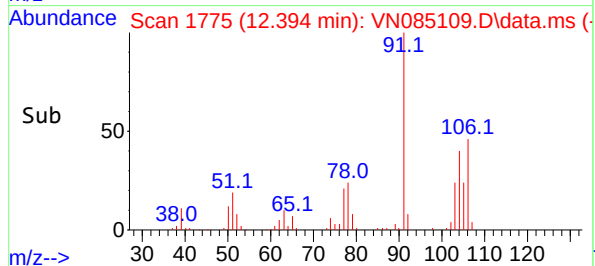
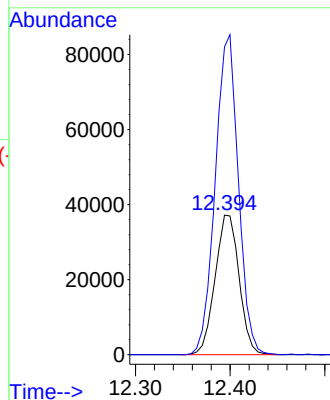
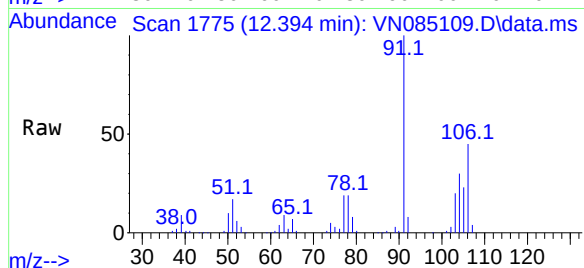
91 221.0 110.7 331.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#70

Styrene

Concen: 23.286 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.000 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

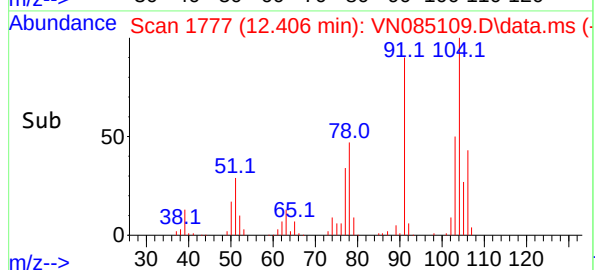
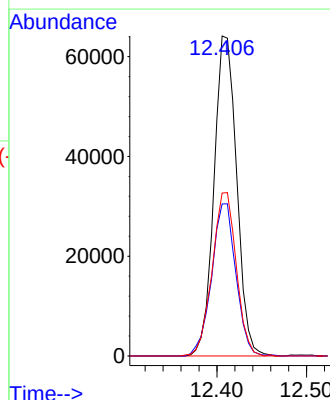
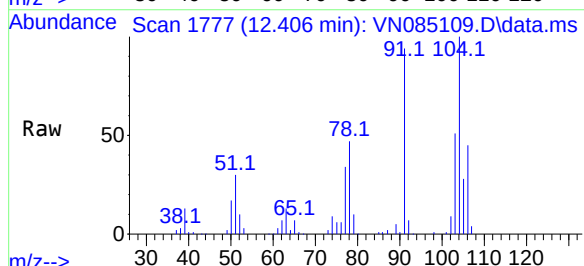
Tgt Ion:104 Resp: 112638

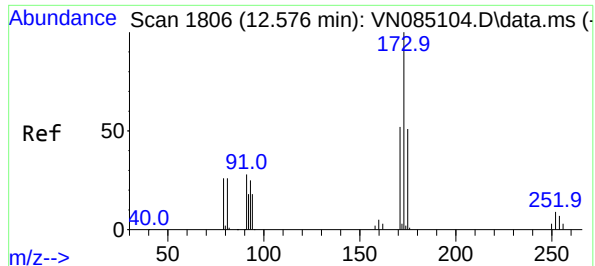
Ion Ratio Lower Upper

104 100

78 50.9 42.3 63.5

103 54.3 44.2 66.2





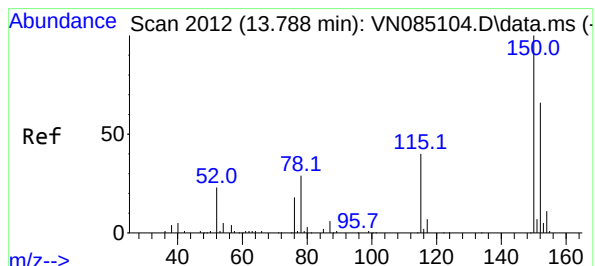
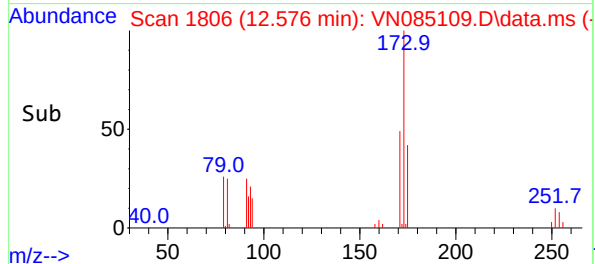
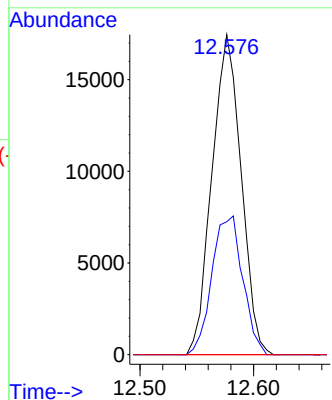
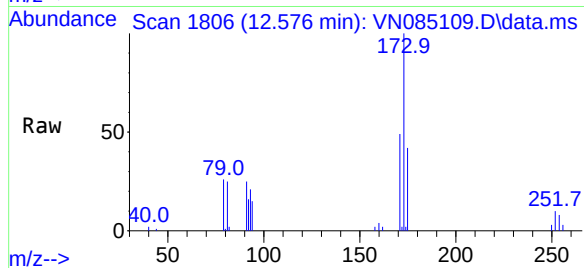
#71
Bromoform
Concen: 24.064 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN085109.D
Acq: 05 Dec 2024 12:13

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBS01

Tgt Ion:173 Resp: 31130
Ion Ratio Lower Upper
173 100
175 45.8 23.8 71.2
254 0.0 0.0 0.0

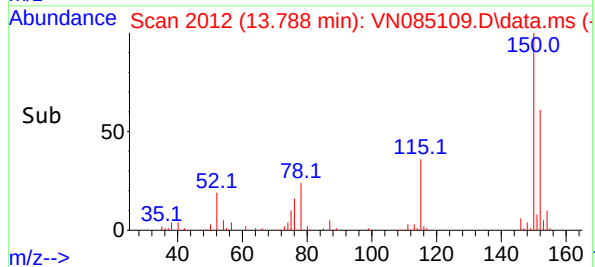
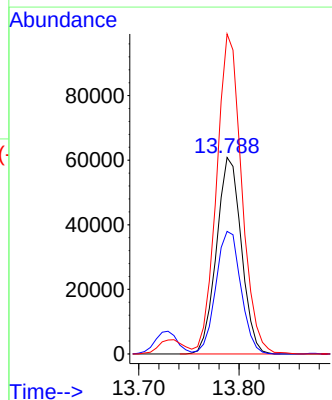
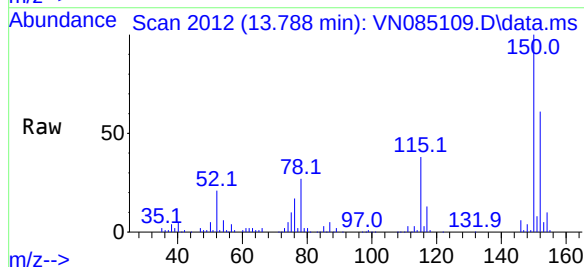
Manual Integrations
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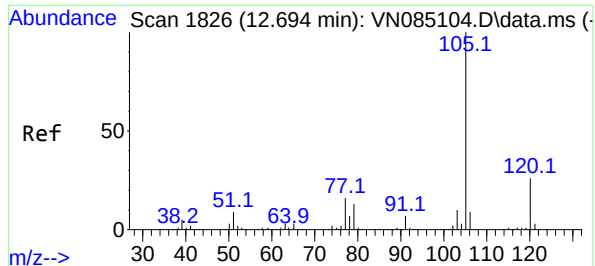
Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085109.D
Acq: 05 Dec 2024 12:13

Tgt Ion:152 Resp: 104397
Ion Ratio Lower Upper
152 100
115 63.1 31.7 95.1
150 165.2 0.0 351.4





#73

Isopropylbenzene

Concen: 22.820 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. -0.000 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Tgt Ion: 105 Resp: 16806

Ion Ratio Lower Upper

105 100

120 25.1 13.0 39.0

Instrument :

MSVOA_N

ClientSampleId :

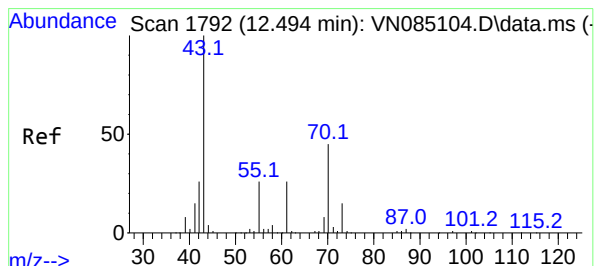
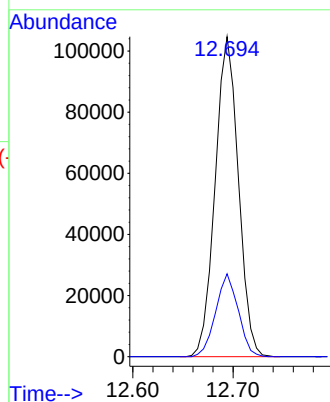
VN1205WBS01

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#74

N-ethyl acetate

Concen: 23.133 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. -0.000 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Tgt Ion: 43 Resp: 70205

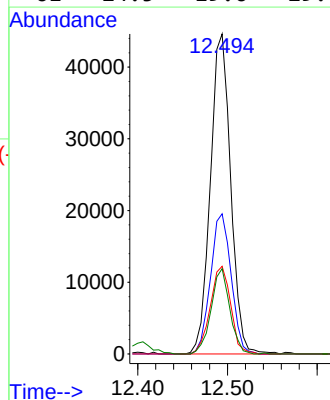
Ion Ratio Lower Upper

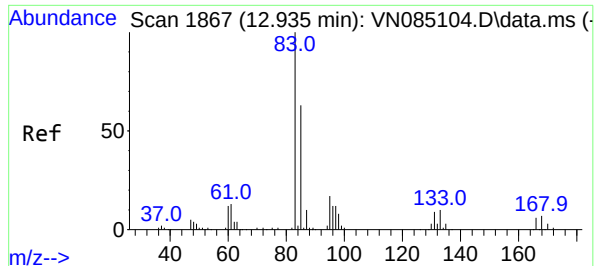
43 100

70 44.5 34.6 51.8

55 27.5 20.5 30.7

61 24.5 19.6 29.4





#75

1,1,2,2-Tetrachloroethane

Concen: 21.707 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. -0.000 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBS01

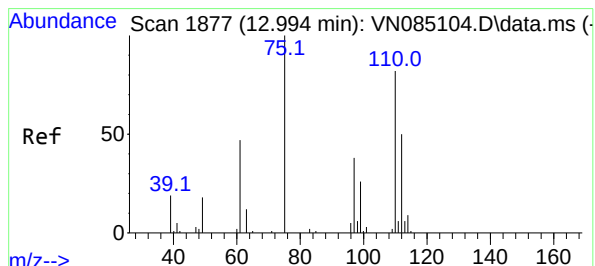
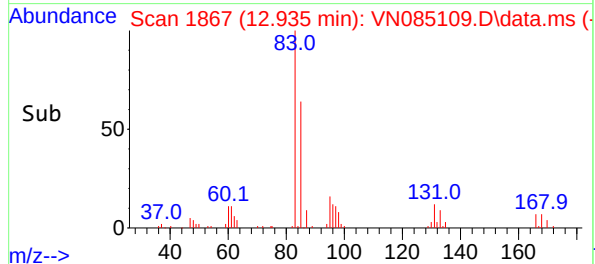
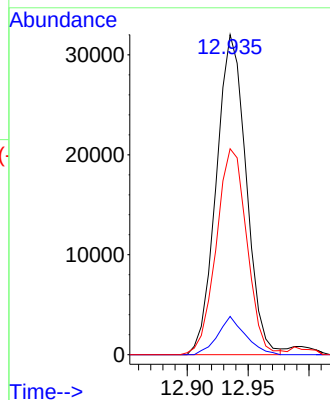
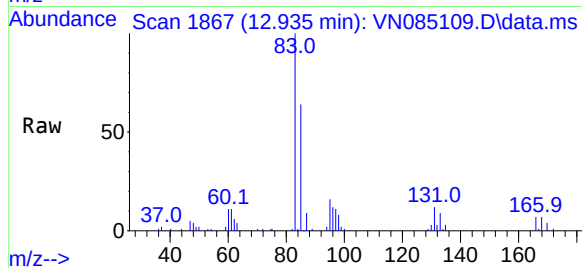
Tgt Ion:	83	Resp:	5459
Ion	Ratio	Lower	Upper
83	100		
131	11.1	5.1	15.4
85	66.2	32.1	96.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#76

1,2,3-Trichloropropane

Concen: 23.720 ug/l m

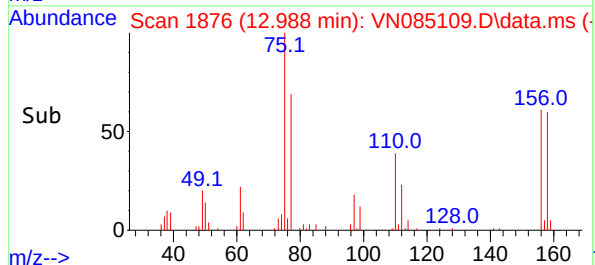
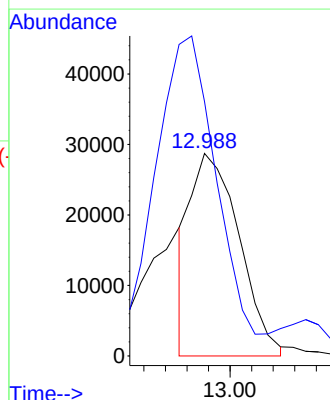
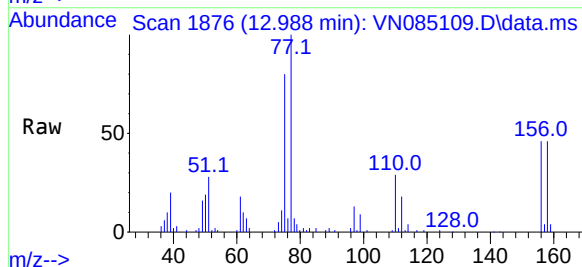
RT: 12.988 min Scan# 1876

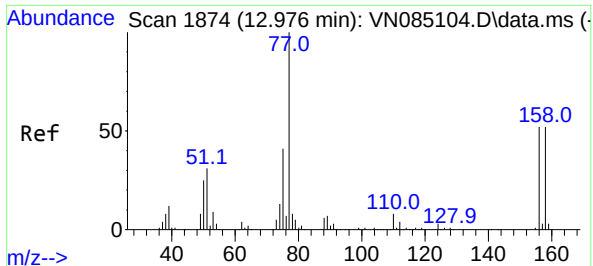
Delta R.T. -0.006 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

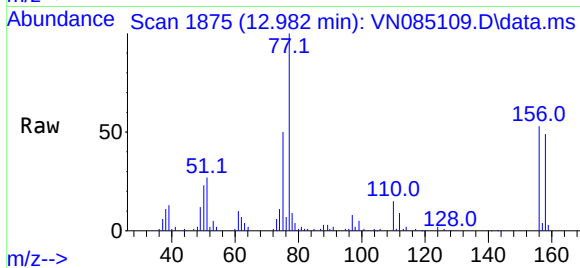
Tgt Ion:	75	Resp:	45042
Ion	Ratio	Lower	Upper
75	100		
77	204.1	109.1	327.4





#77
Bromobenzene
Concen: 21.046 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. 0.006 min
Lab File: VN085109.D
Acq: 05 Dec 2024 12:13

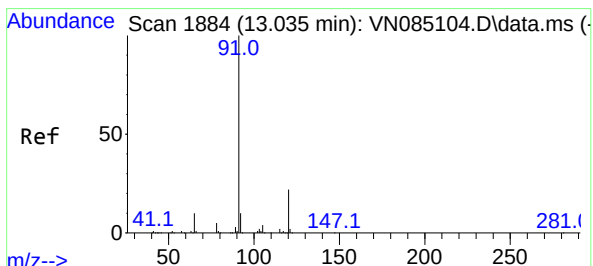
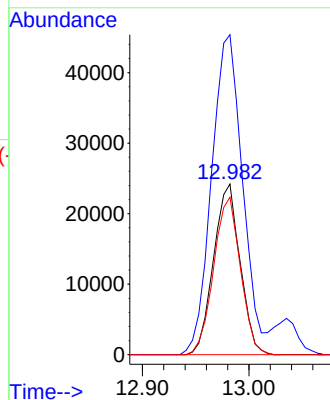
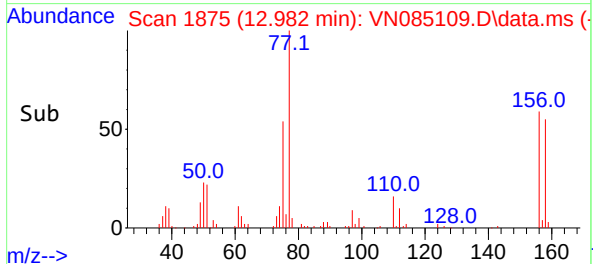
Instrument :
MSVOA_N
ClientSampleId :
VN1205WBS01



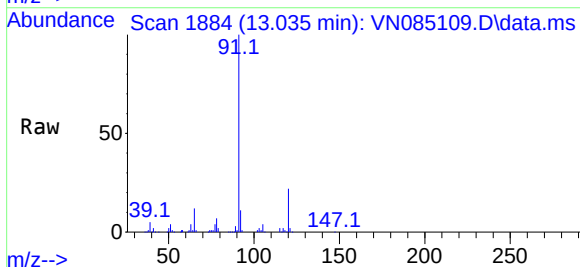
Tgt Ion:156 Resp: 41712
Ion Ratio Lower Upper
156 100
77 220.4 107.2 321.6
158 93.5 48.5 145.6

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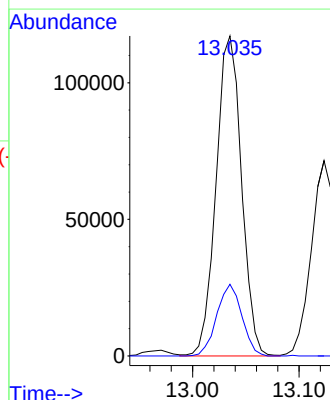
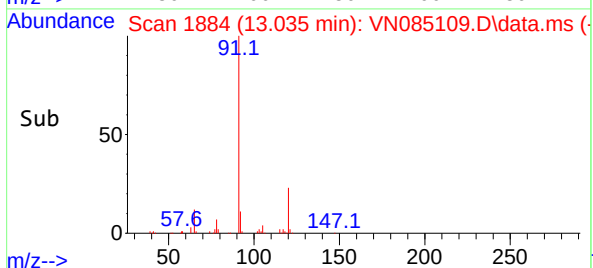
Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024

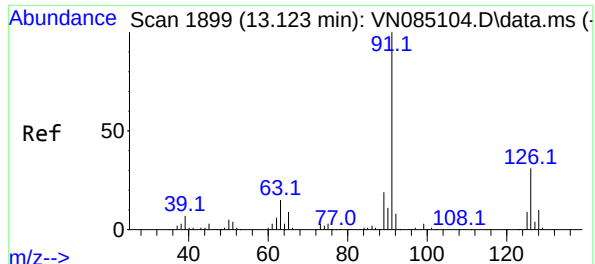


#78
n-propylbenzene
Concen: 22.849 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN085109.D
Acq: 05 Dec 2024 12:13



Tgt Ion: 91 Resp: 194094
Ion Ratio Lower Upper
91 100
120 22.1 11.3 33.9





#79

2-Chlorotoluene

Concen: 21.307 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Tgt Ion: 91 Resp: 120820

Ion Ratio Lower Upper

91 100

126 32.8 16.1 48.3

Instrument :

MSVOA_N

ClientSampleId :

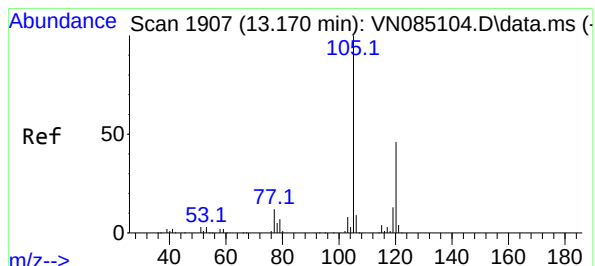
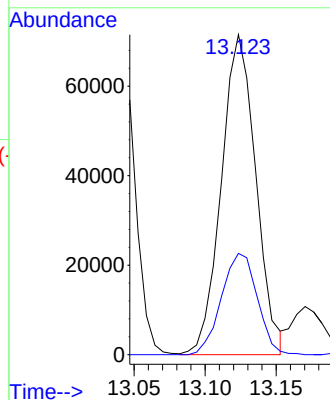
VN1205WBS01

Manual Integrations

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Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#80

1,3,5-Trimethylbenzene

Concen: 23.204 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN085109.D

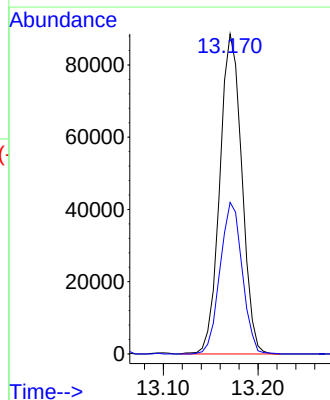
Acq: 05 Dec 2024 12:13

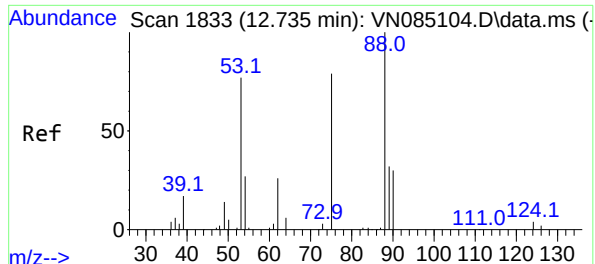
Tgt Ion:105 Resp: 143402

Ion Ratio Lower Upper

105 100

120 47.6 23.6 71.0





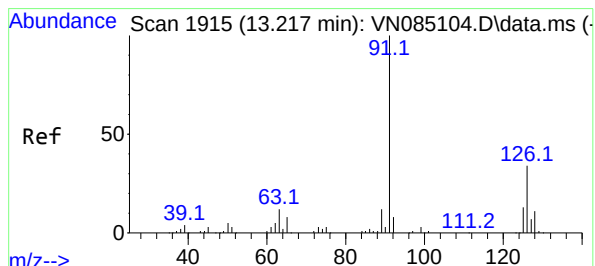
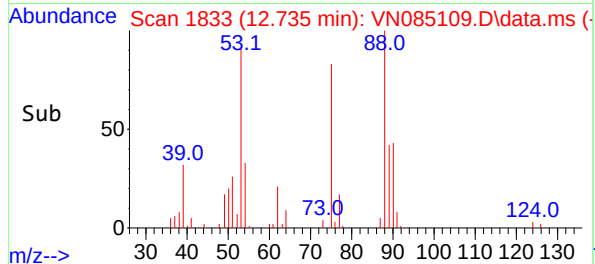
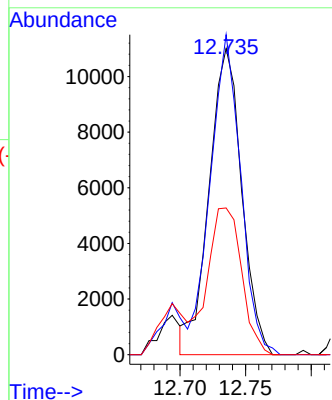
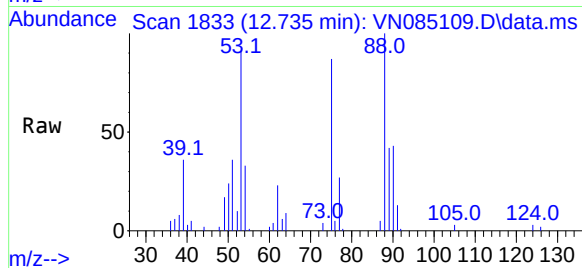
#81
trans-1,4-Dichloro-2-butene
Concen: 22.162 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN085109.D
Acq: 05 Dec 2024 12:13

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBS01

Tgt Ion: 75 Resp: 1906
Ion Ratio Lower Upper
75 100
53 96.7 78.2 117.4
89 50.1 37.9 56.9

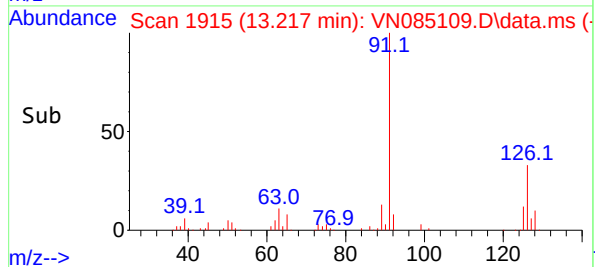
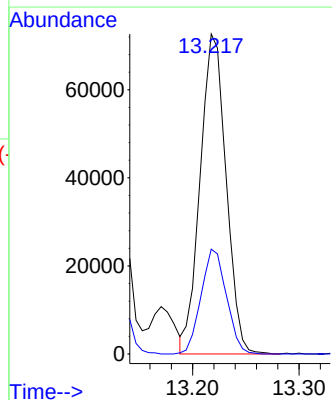
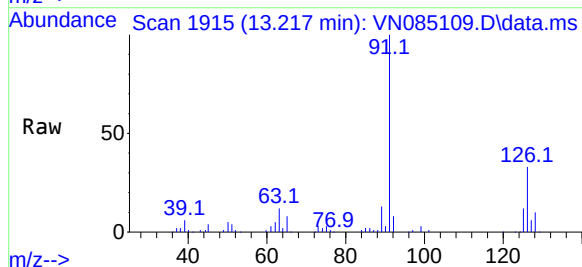
Manual Integrations
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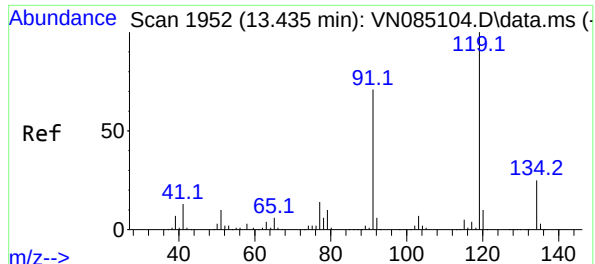
Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024



#82
4-Chlorotoluene
Concen: 20.837 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085109.D
Acq: 05 Dec 2024 12:13

Tgt Ion: 91 Resp: 123005
Ion Ratio Lower Upper
91 100
126 32.1 16.1 48.3





#83

tert-Butylbenzene

Concen: 21.285 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBS01

Tgt Ion:119 Resp: 11318

Ion Ratio Lower Upper

119 100

91 71.6 35.1 105.5

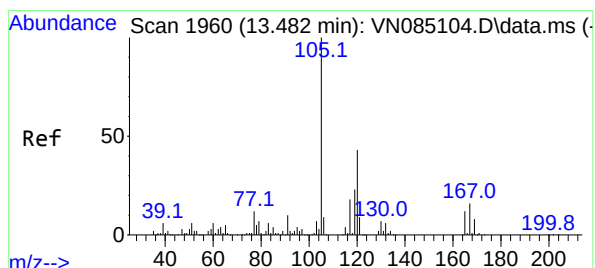
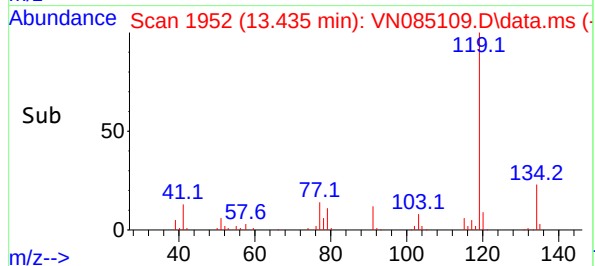
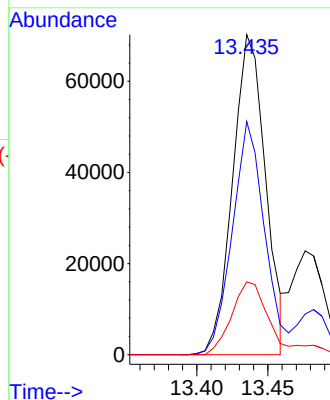
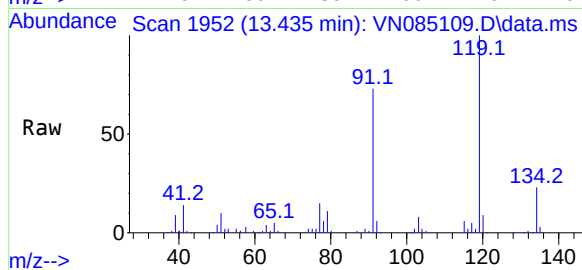
134 27.1 12.1 36.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#84

1,2,4-Trimethylbenzene

Concen: 22.285 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.006 min

Lab File: VN085109.D

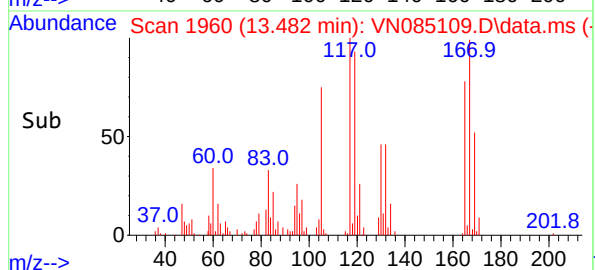
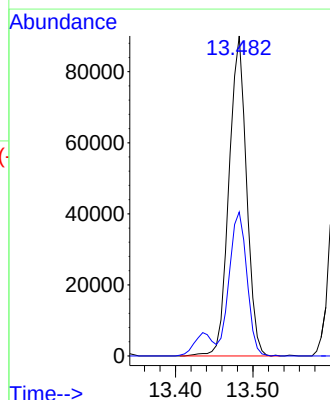
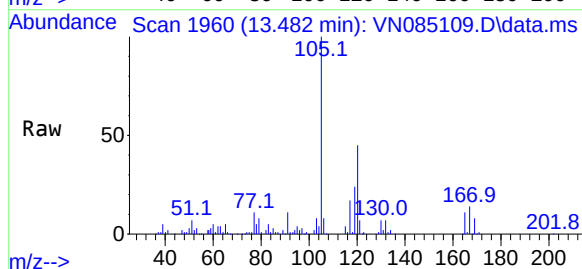
Acq: 05 Dec 2024 12:13

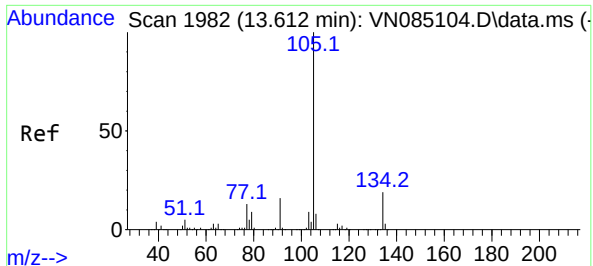
Tgt Ion:105 Resp: 141767

Ion Ratio Lower Upper

105 100

120 45.3 21.8 65.4





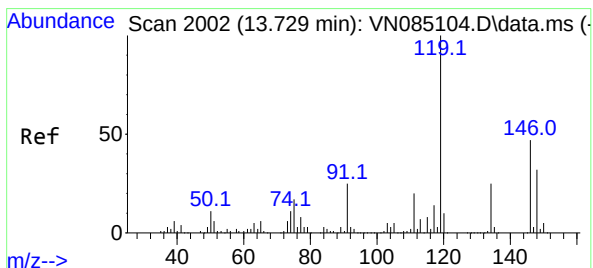
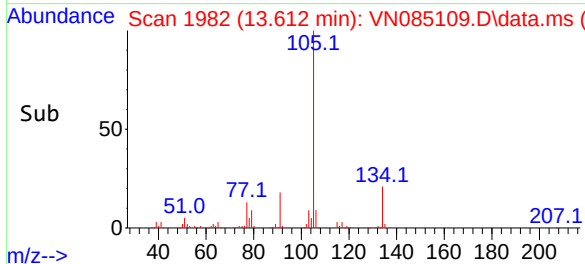
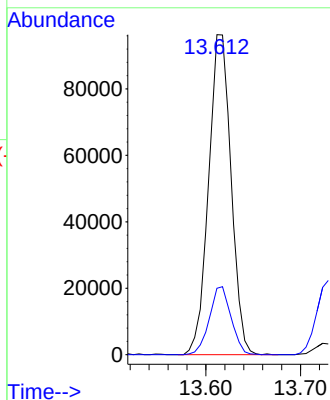
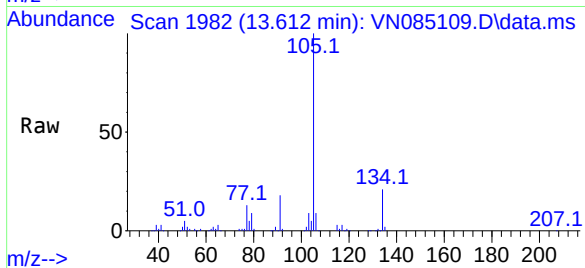
#85
sec-Butylbenzene
Concen: 22.165 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. -0.000 min
Lab File: VN085109.D
Acq: 05 Dec 2024 12:13

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBS01

Tgt Ion:105 Resp: 159215
Ion Ratio Lower Upper
105 100
134 20.5 9.8 29.3

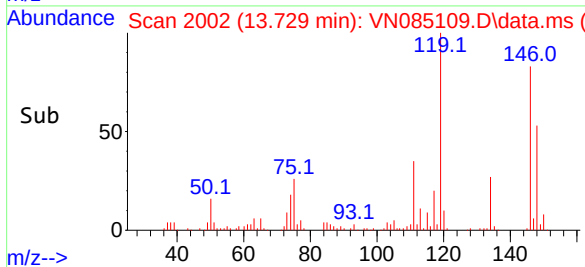
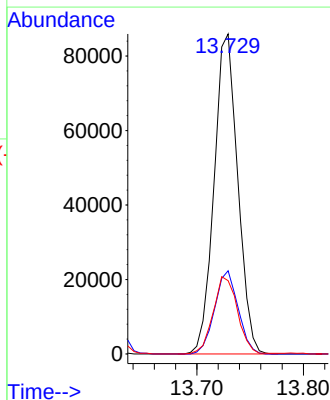
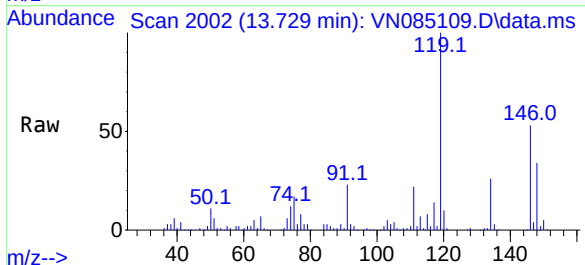
Manual Integrations
APPROVED

Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024

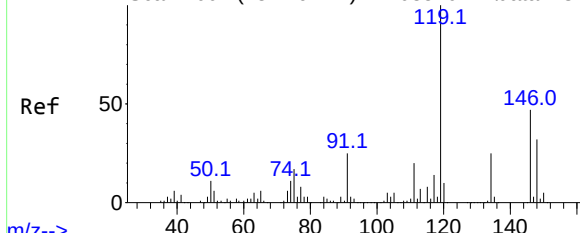


#86
p-Isopropyltoluene
Concen: 22.313 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN085109.D
Acq: 05 Dec 2024 12:13

Tgt Ion:119 Resp: 132307
Ion Ratio Lower Upper
119 100
134 25.8 13.0 39.0
91 24.9 12.8 38.4



Abundance Scan 2002 (13.729 min): VN085104.D\data.ms (-



#87

1,3-Dichlorobenzene

Concen: 19.615 ug/l

RT: 13.735 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBS01

Tgt Ion:146 Resp: 76678

Ion Ratio Lower Upper

146 100

111 42.6 21.6 65.0

148 64.8 32.2 96.6

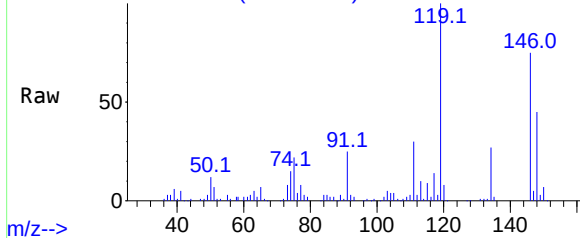
Manual Integrations

APPROVED

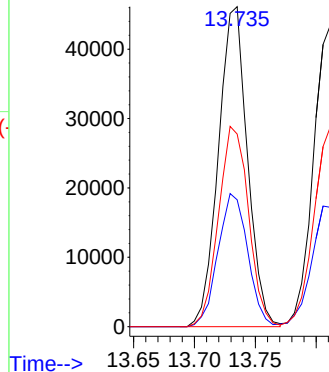
Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024

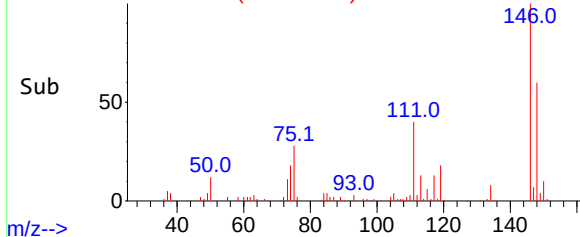
Abundance Scan 2003 (13.735 min): VN085109.D\data.ms



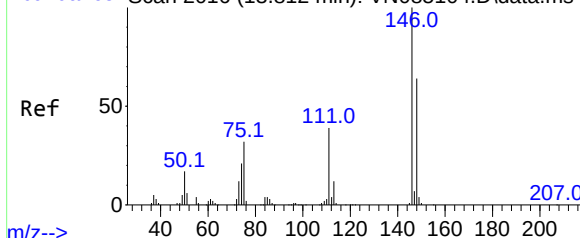
Abundance



Abundance Scan 2003 (13.735 min): VN085109.D\data.ms (-



Abundance Scan 2016 (13.812 min): VN085104.D\data.ms (-



#88

1,4-Dichlorobenzene

Concen: 18.690 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Tgt Ion:146 Resp: 74561

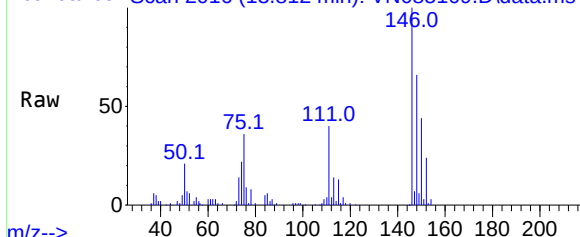
Ion Ratio Lower Upper

146 100

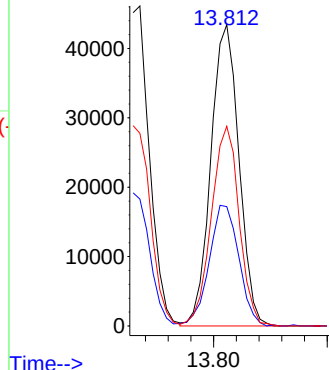
111 42.5 20.9 62.8

148 65.6 31.3 93.9

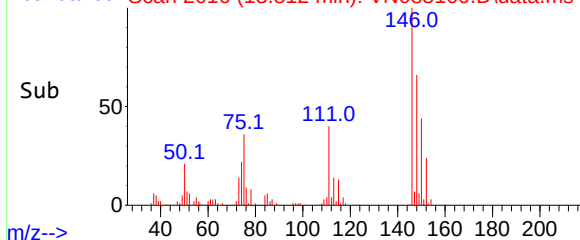
Abundance Scan 2016 (13.812 min): VN085109.D\data.ms

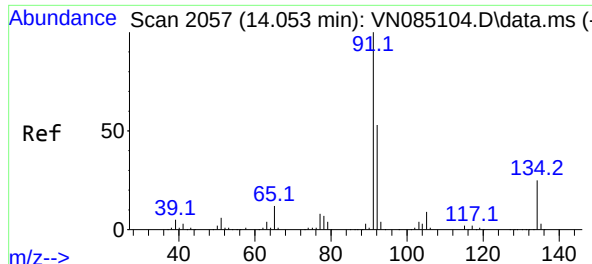


Abundance



Abundance Scan 2016 (13.812 min): VN085109.D\data.ms (-





#89

n-Butylbenzene

Concen: 19.075 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBS01

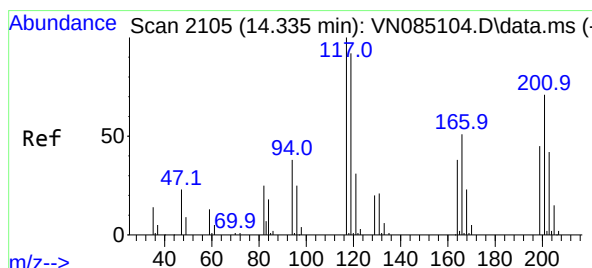
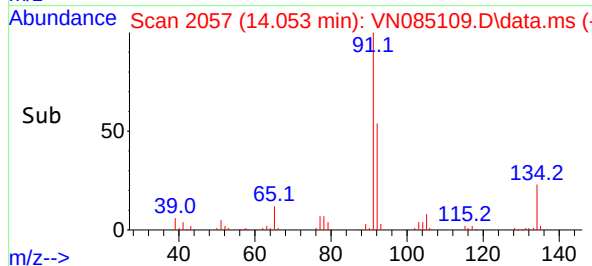
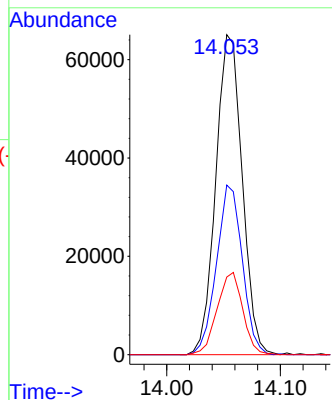
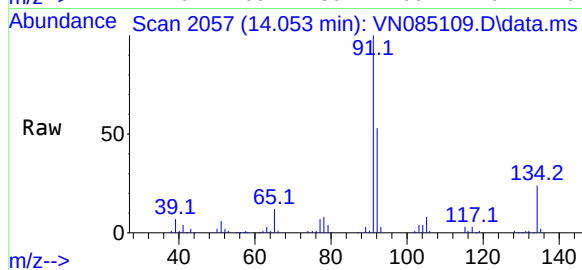
Tgt Ion:	91	Resp:	10518
Ion	Ratio	Lower	Upper
91	100		
92	51.9	26.8	80.3
134	24.9	12.8	38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#90

Hexachloroethane

Concen: 20.824 ug/l

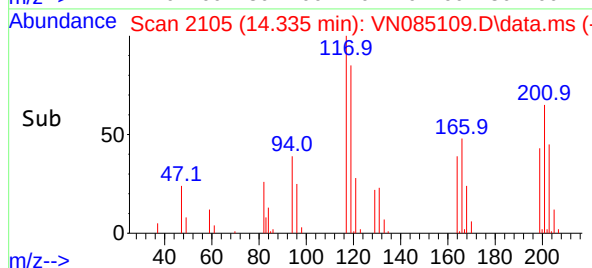
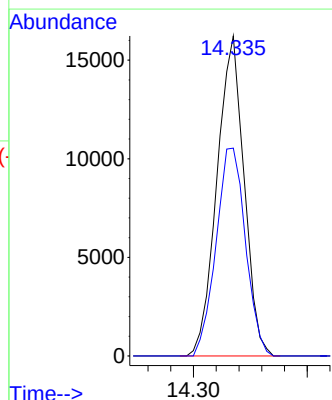
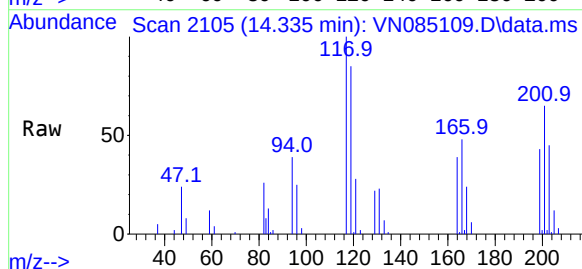
RT: 14.335 min Scan# 2105

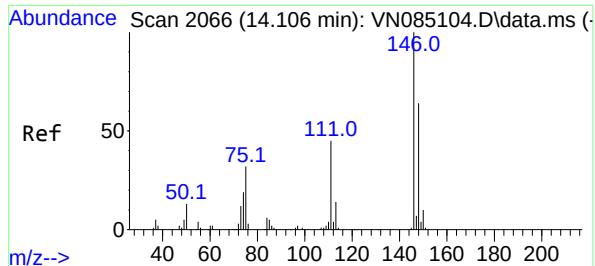
Delta R.T. 0.006 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Tgt Ion:	117	Resp:	26915
Ion	Ratio	Lower	Upper
117	100		
201	70.4	35.2	105.6





#91

1,2-Dichlorobenzene

Concen: 19.557 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBS01

Tgt Ion:146 Resp: 73260

Ion Ratio Lower Upper

146 100

111 44.4 21.9 65.8

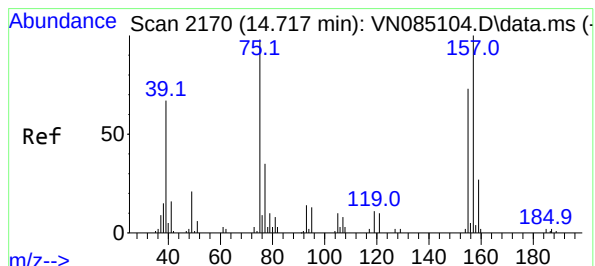
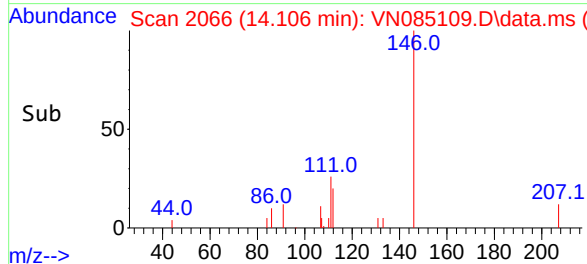
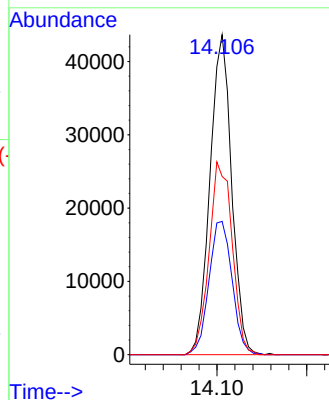
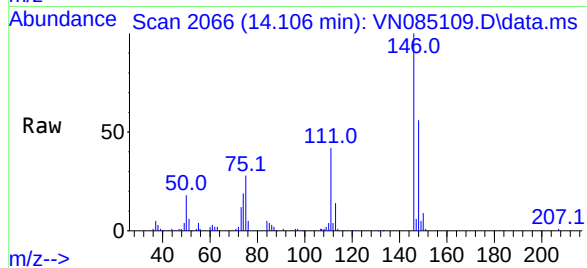
148 64.0 31.1 93.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 22.198 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. -0.000 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

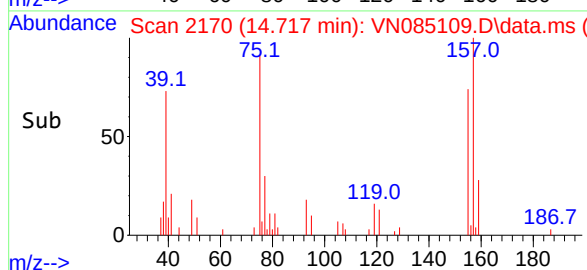
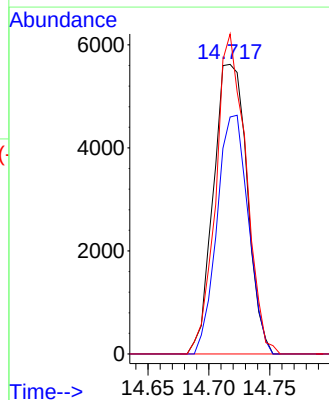
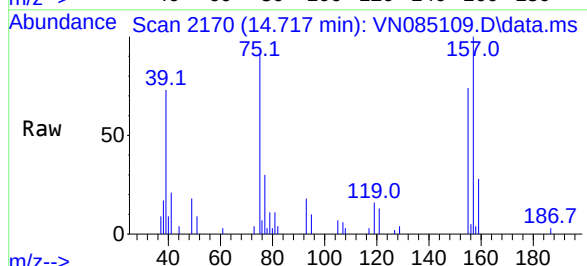
Tgt Ion: 75 Resp: 10795

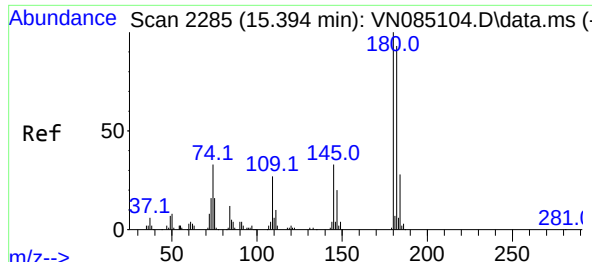
Ion Ratio Lower Upper

75 100

155 76.7 38.9 116.7

157 98.9 48.3 144.9





#93

1,2,4-Trichlorobenzene

Concen: 17.161 ug/l

RT: 15.388 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBS01

Tgt Ion:180 Resp: 3492

Ion Ratio Lower Upper

180 100

182 95.7 46.9 140.8

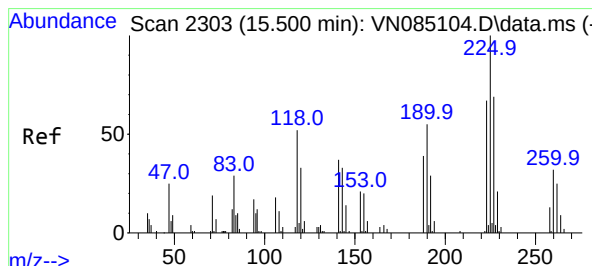
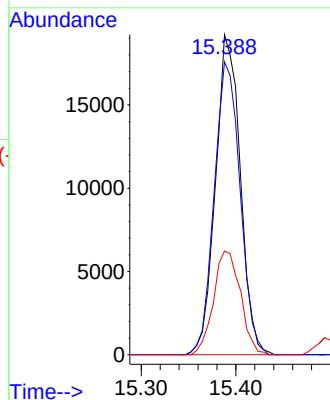
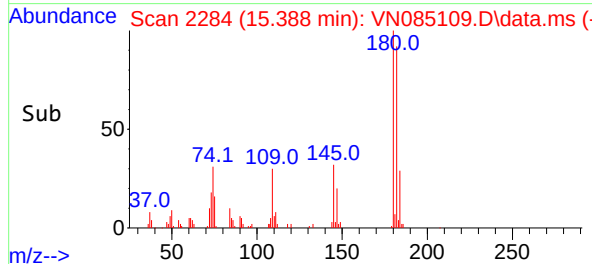
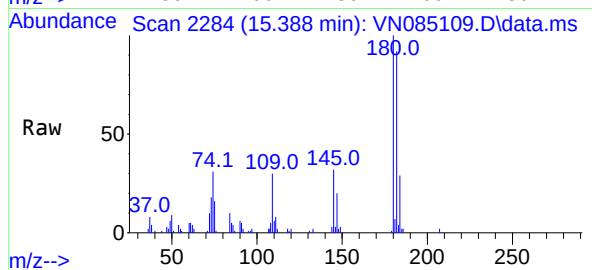
145 35.2 16.3 48.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/06/2024

Supervised By :Mahesh Dadoda 12/06/2024



#94

Hexachlorobutadiene

Concen: 18.461 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

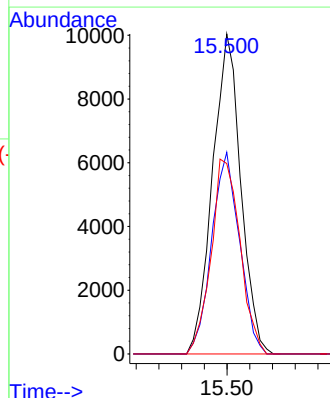
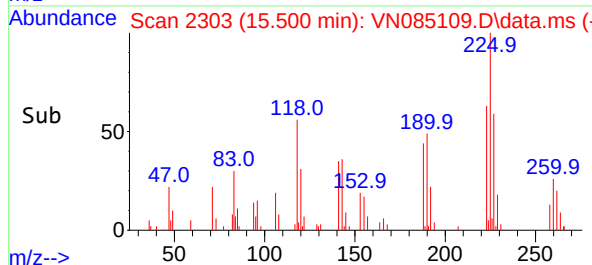
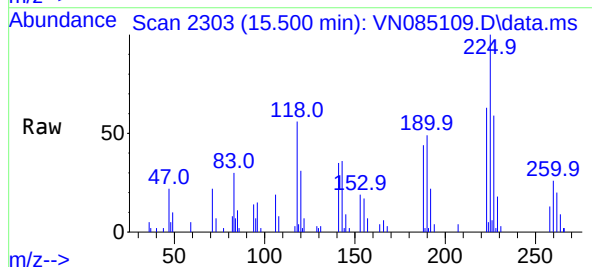
Tgt Ion:225 Resp: 17339

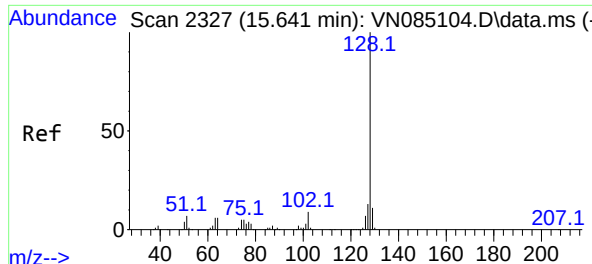
Ion Ratio Lower Upper

225 100

223 62.1 30.9 92.8

227 62.3 31.5 94.5





#95

Naphthalene

Concen: 19.017 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. -0.000 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Instrument :

MSVOA_N

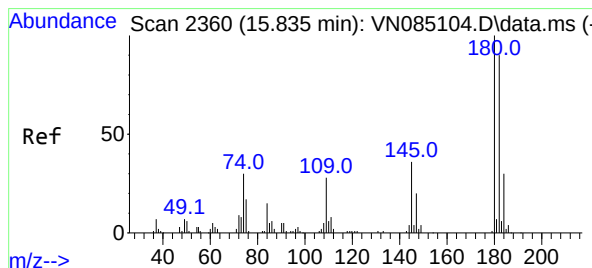
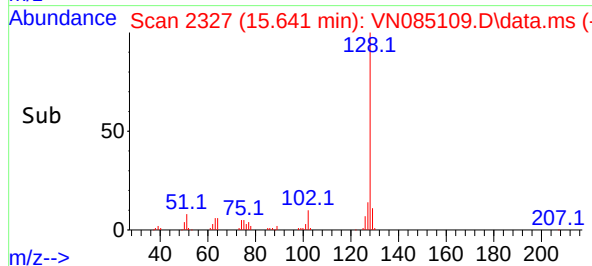
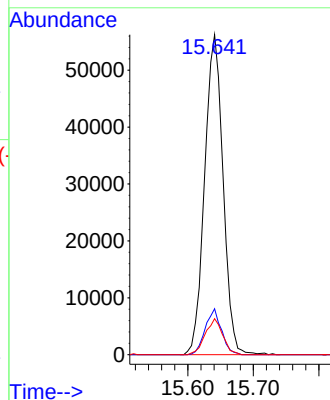
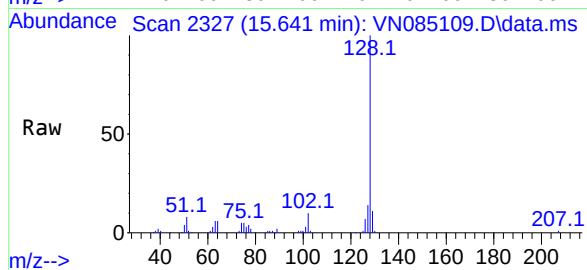
ClientSampleId :

VN1205WBS01

Tgt Ion:	128	Resp:	110224
Ion Ratio	Lower	Upper	
128	100		
127	12.6	10.6	16.0
129	10.7	8.6	12.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/06/2024
Supervised By :Mahesh Dadoda 12/06/2024



#96

1,2,3-Trichlorobenzene

Concen: 17.954 ug/l

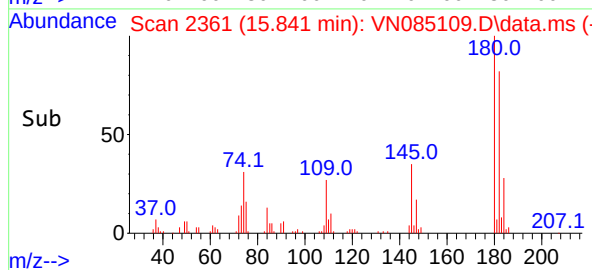
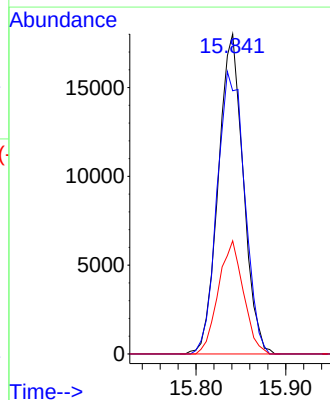
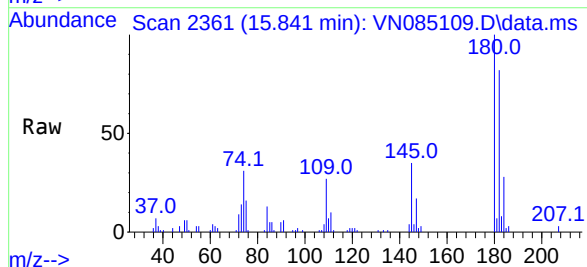
RT: 15.841 min Scan# 2361

Delta R.T. 0.006 min

Lab File: VN085109.D

Acq: 05 Dec 2024 12:13

Tgt Ion:	180	Resp:	34864
Ion Ratio	Lower	Upper	
180	100		
182	97.0	46.4	139.2
145	35.5	17.3	52.0



Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	12/03/24
Project:	RFP 890	Date Received:	12/04/24
Client Sample ID:	UNIT-51-RS-SW001-01MS	SDG No.:	P5088
Lab Sample ID:	P5088-04MS	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085102.D	1		12/04/24 18:25	VN120424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	42.5		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	46.8		0.26	1.00	ug/L
75-09-2	Methylene Chloride	46.6		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	45.2		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	49.2		0.23	1.00	ug/L
56-23-5	Carbon Tetrachloride	52.2		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	50.0		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	50.1		0.19	1.00	ug/L
79-01-6	Trichloroethene	50.5		0.32	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	56.5		0.21	1.00	ug/L
127-18-4	Tetrachloroethene	47.5		0.25	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	52.8		0.39	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.0		70 (74) - 130 (125)	102%	SPK: 50
1868-53-7	Dibromofluoromethane	54.2		70 (75) - 130 (124)	108%	SPK: 50
2037-26-5	Toluene-d8	52.6		70 (86) - 130 (113)	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.0		70 (77) - 130 (121)	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	158000	8.224			
540-36-3	1,4-Difluorobenzene	260000	9.1			
3114-55-4	Chlorobenzene-d5	227000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	114000	13.788			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120424\
 Data File : VN085102.D
 Acq On : 04 Dec 2024 18:25
 Operator : JC\MD
 Sample : P5088-04MS
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 UNIT-51-RS-SW001-01MS

Quant Time: Dec 04 22:11:38 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 23 02:54:10 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 12/05/2024
 Supervised By :Mahesh Dadoda 12/05/2024

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	158332	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	259564	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	227124	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	114296	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	115049	51.012	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	102.020%
35) Dibromofluoromethane	8.165	113	94835	54.179	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	108.360%
50) Toluene-d8	10.565	98	329967	52.601	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	105.200%
62) 4-Bromofluorobenzene	12.847	95	124403	53.030	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	106.060%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	77956	43.543	ug/l	100
3) Chloromethane	2.359	50	74298	35.780	ug/l	98
4) Vinyl Chloride	2.512	62	79227	42.456	ug/l	98
5) Bromomethane	2.948	94	45215	43.229	ug/l	95
6) Chloroethane	3.118	64	50770	40.364	ug/l	99
7) Trichlorofluoromethane	3.495	101	151627	47.765	ug/l	98
8) Diethyl Ether	3.959	74	54163	50.131	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	87259	48.466	ug/l	99
10) Methyl Iodide	4.589	142	101995	42.798	ug/l	94
11) Tert butyl alcohol	5.518	59	93779	311.163	ug/l	97
12) 1,1-Dichloroethene	4.342	96	78625	46.786	ug/l	96
13) Acrolein	4.177	56	65093	323.679	ug/l	98
14) Allyl chloride	5.024	41	117244	41.385	ug/l	91
15) Acrylonitrile	5.718	53	239216	280.355	ug/l	99
16) Acetone	4.424	43	192040	292.371	ug/l	99
17) Carbon Disulfide	4.712	76	176722	35.627	ug/l	99
18) Methyl Acetate	5.024	43	119714	57.188	ug/l	99
19) Methyl tert-butyl Ether	5.794	73	295529	53.822	ug/l	100
20) Methylene Chloride	5.277	84	93490	46.644	ug/l	98
21) trans-1,2-Dichloroethene	5.783	96	80016	45.246	ug/l	87
22) Diisopropyl ether	6.671	45	293076	51.400	ug/l	97
23) Vinyl Acetate	6.600	43	1167488	296.797	ug/l	99
24) 1,1-Dichloroethane	6.565	63	167960	49.224	ug/l	100
25) 2-Butanone	7.477	43	307229	286.094	ug/l	99
26) 2,2-Dichloropropane	7.483	77	151987	47.702	ug/l	99
27) cis-1,2-Dichloroethene	7.488	96	106641	50.020	ug/l	99
28) Bromochloromethane	7.812	49	62599	48.600	ug/l	95
29) Tetrahydrofuran	7.835	42	198029	296.536	ug/l	99
30) Chloroform	7.965	83	180604	49.758	ug/l	98
31) Cyclohexane	8.253	56	125878	41.900	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	164481	50.148	ug/l	99
36) 1,1-Dichloropropene	8.365	75	112837	47.592	ug/l	98
37) Ethyl Acetate	7.559	43	121044	56.158	ug/l	99
38) Carbon Tetrachloride	8.359	117	142809	52.182	ug/l	98
39) Methylcyclohexane	9.600	83	117448	47.671	ug/l	95
40) Benzene	8.606	78	370783	49.446	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120424\
 Data File : VN085102.D
 Acq On : 04 Dec 2024 18:25
 Operator : JC\MD
 Sample : P5088-04MS
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 UNIT-51-RS-SW001-01MS

Quant Time: Dec 04 22:11:38 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 23 02:54:10 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 12/05/2024
 Supervised By :Mahesh Dadoda 12/05/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	67431	56.503	ug/l	95
42) 1,2-Dichloroethane	8.665	62	130846	51.004	ug/l	99
43) Isopropyl Acetate	8.688	43	220545	49.260	ug/l	99
44) Trichloroethene	9.347	130	87931	50.457	ug/l	98
45) 1,2-Dichloropropane	9.618	63	94150	50.976	ug/l	94
46) Dibromomethane	9.706	93	66500	51.816	ug/l	99
47) Bromodichloromethane	9.882	83	143787	52.862	ug/l	96
48) Methyl methacrylate	9.677	41	98381	59.050	ug/l	99
49) 1,4-Dioxane	9.694	88	36805	1273.861	ug/l	98
51) 4-Methyl-2-Pentanone	10.441	43	650442	318.069	ug/l	99
52) Toluene	10.629	92	228403	51.451	ug/l	98
53) t-1,3-Dichloropropene	10.835	75	145092	53.206	ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	149292	51.604	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	93428	56.502	ug/l	98
56) Ethyl methacrylate	10.871	69	151468	62.688	ug/l	99
57) 1,3-Dichloropropane	11.159	76	158297	54.394	ug/l	99
59) 2-Hexanone	11.194	43	481124	314.575	ug/l	100
60) Dibromochloromethane	11.359	129	112107	55.475	ug/l	99
61) 1,2-Dibromoethane	11.465	107	92539	54.076	ug/l	99
64) Tetrachloroethene	11.100	164	72675	47.487	ug/l	97
65) Chlorobenzene	11.888	112	253651	49.244	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	100426	55.375	ug/l	97
67) Ethyl Benzene	11.959	91	450515	53.910	ug/l	98
68) m/p-Xylenes	12.070	106	344075	108.147	ug/l	100
69) o-Xylene	12.394	106	165964	54.838	ug/l	99
70) Styrene	12.406	104	291395	57.898	ug/l	99
71) Bromoform	12.576	173	77662	57.690	ug/l #	99
73) Isopropylbenzene	12.694	105	432013	53.578	ug/l	100
74) N-amyl acetate	12.494	43	187182	56.335	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	138912	50.451	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	109670m	52.752	ug/l	
77) Bromobenzene	12.976	156	105735	48.729	ug/l	97
78) n-propylbenzene	13.035	91	506198	54.429	ug/l	99
79) 2-Chlorotoluene	13.123	91	317665	51.168	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	374700	55.379	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	54239	57.594	ug/l	96
82) 4-Chlorotoluene	13.217	91	320743	49.628	ug/l	100
83) tert-Butylbenzene	13.435	119	311362	53.484	ug/l	100
84) 1,2,4-Trimethylbenzene	13.482	105	373367	53.609	ug/l	99
85) sec-Butylbenzene	13.612	105	426840	54.276	ug/l	99
86) p-Isopropyltoluene	13.729	119	364257	56.110	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	196167	45.835	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	195543	44.771	ug/l	98
89) n-Butylbenzene	14.053	91	295269	48.908	ug/l	99
90) Hexachloroethane	14.335	117	70773	50.014	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	189519	46.211	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	27199	51.085	ug/l	95
93) 1,2,4-Trichlorobenzene	15.394	180	93438	41.937	ug/l	99
94) Hexachlorobutadiene	15.500	225	42485	41.317	ug/l	97
95) Naphthalene	15.641	128	304865	48.042	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	92423	43.474	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120424\
Data File : VN085102.D
Acq On : 04 Dec 2024 18:25
Operator : JC\MD
Sample : P5088-04MS
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 04 22:11:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-RS-SW001-01MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024

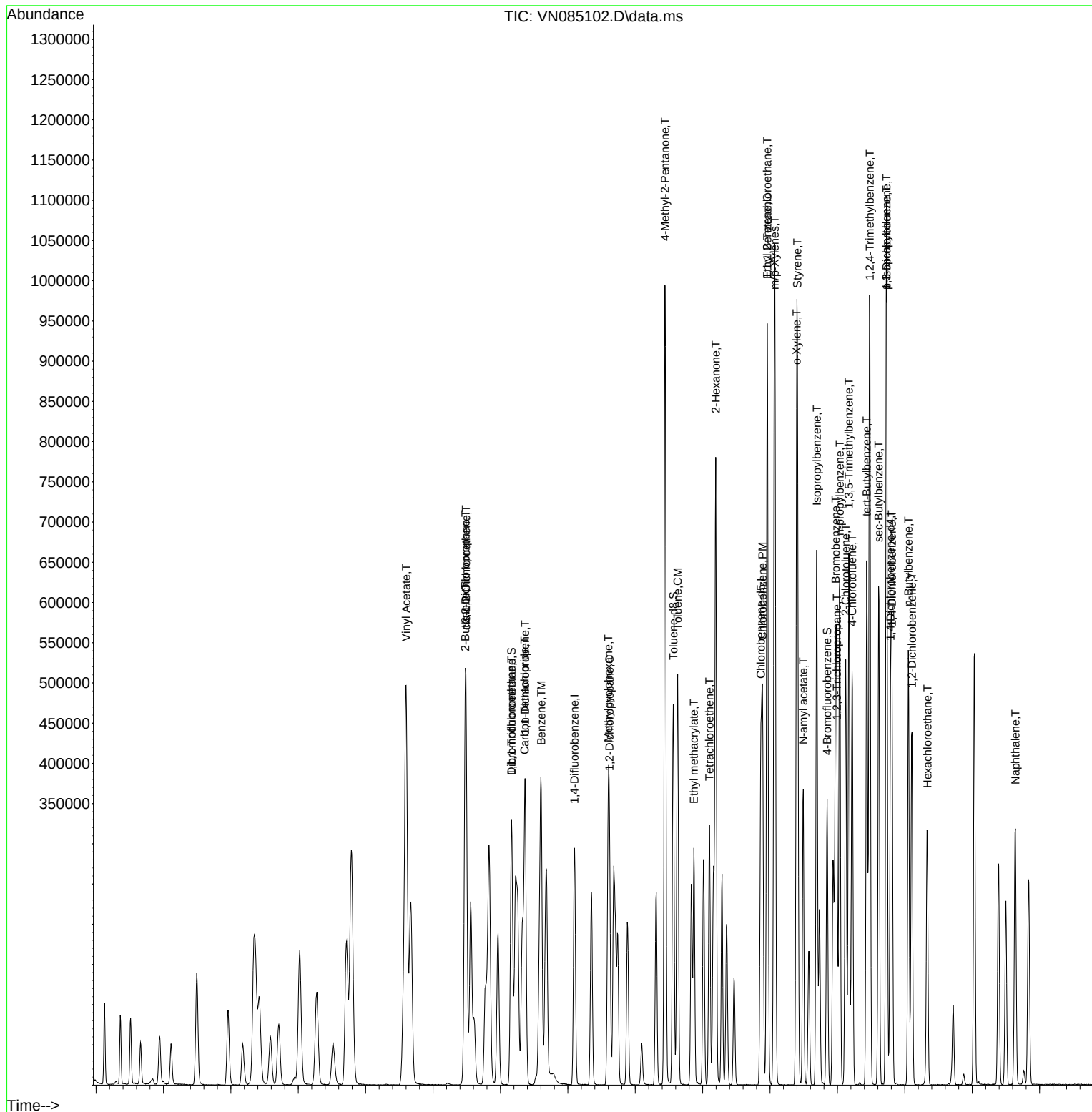
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

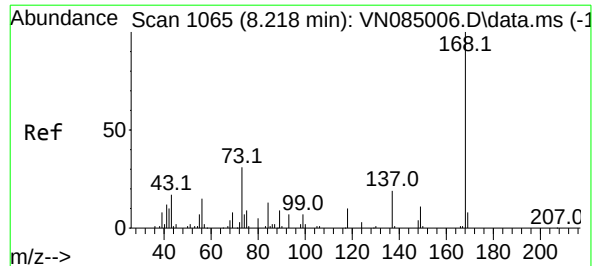
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-RS-SW001-01MS

Manual Integrations APPROVED

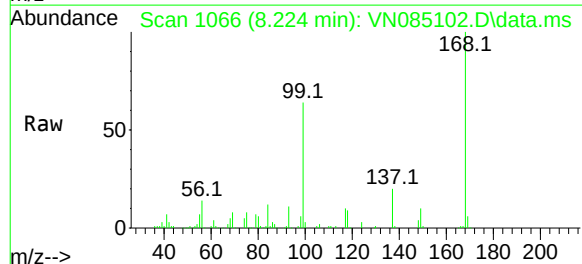
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085102.D
Acq: 04 Dec 2024 18:25

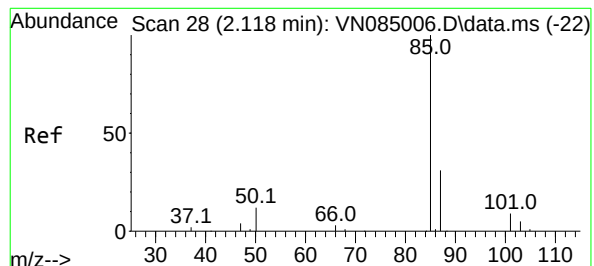
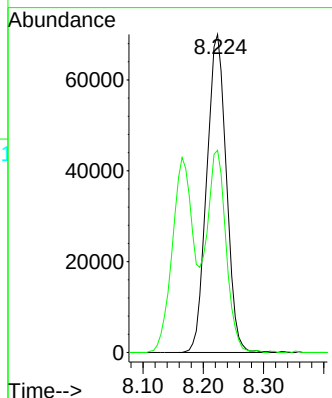
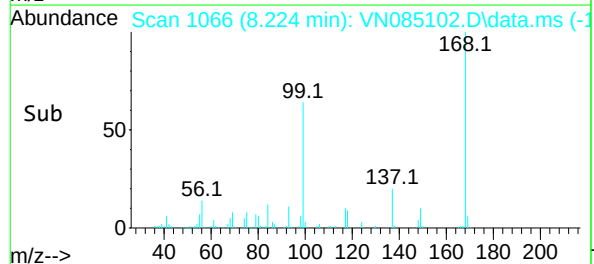
Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-RS-SW001-01MS



Tgt Ion: 168 Resp: 158332
Ion Ratio Lower Upper
168 100
99 63.6 51.2 76.8

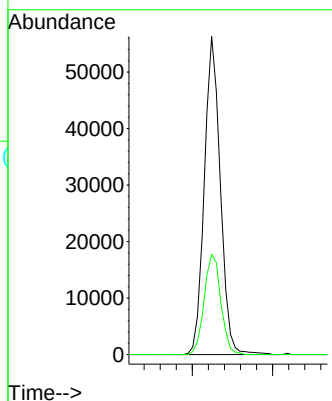
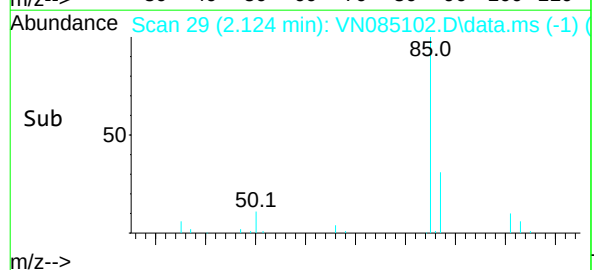
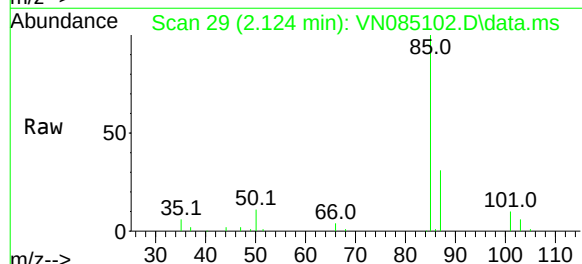
Manual Integrations
APPROVED

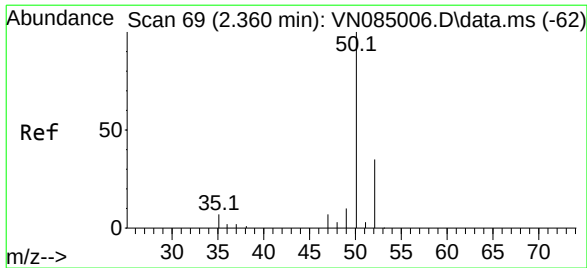
Reviewed By : John Carlone 12/05/2024
Supervised By : Mahesh Dadoda 12/05/2024



#2
Dichlorodifluoromethane
Concen: 43.543 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.006 min
Lab File: VN085102.D
Acq: 04 Dec 2024 18:25

Tgt Ion: 85 Resp: 77956
Ion Ratio Lower Upper
85 100
87 31.4 15.7 47.1





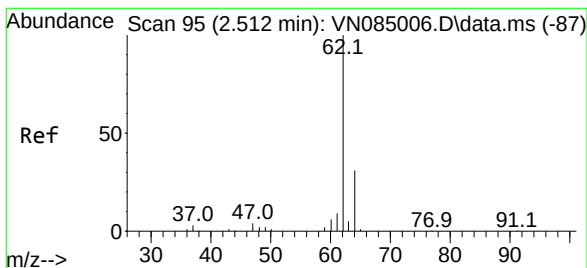
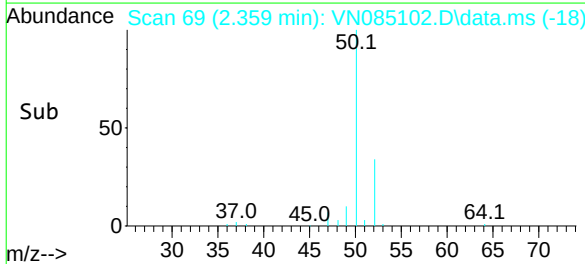
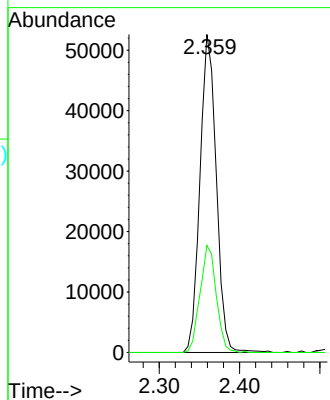
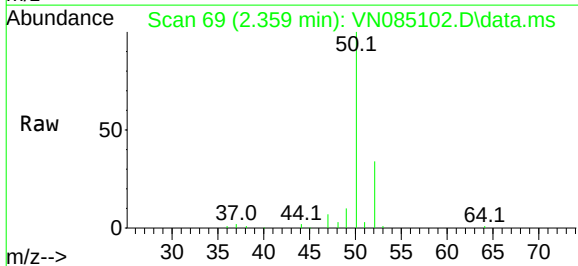
#3
Chloromethane
Concen: 35.780 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085102.D
Acq: 04 Dec 2024 18:25

Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-RS-SW001-01MS

Tgt Ion: 50 Resp: 74298
Ion Ratio Lower Upper
50 100
52 33.7 27.8 41.8

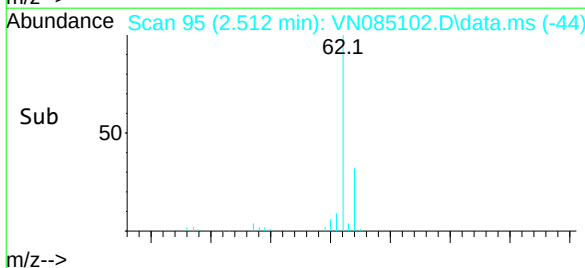
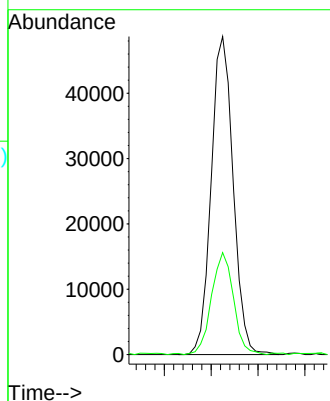
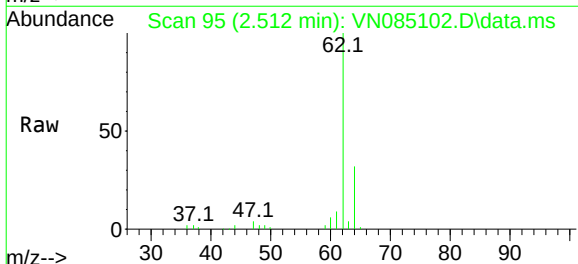
Manual Integrations
APPROVED

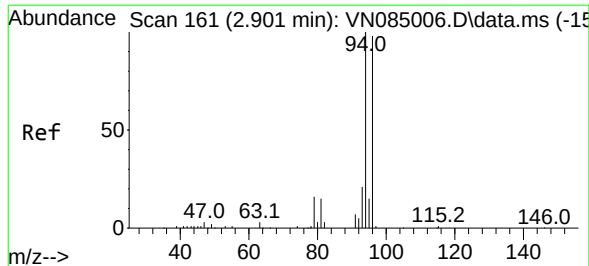
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#4
Vinyl Chloride
Concen: 42.456 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085102.D
Acq: 04 Dec 2024 18:25

Tgt Ion: 62 Resp: 79227
Ion Ratio Lower Upper
62 100
64 31.7 24.6 36.8





#5

Bromomethane

Concen: 43.229 ug/l

RT: 2.948 min Scan# 161

Delta R.T. 0.047 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MS

Tgt Ion: 94 Resp: 45215

Ion Ratio Lower Upper

94 100

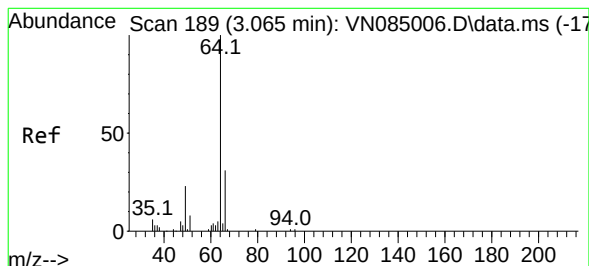
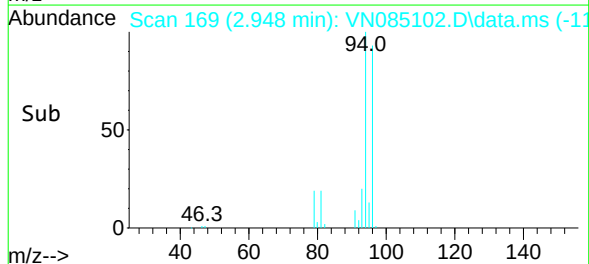
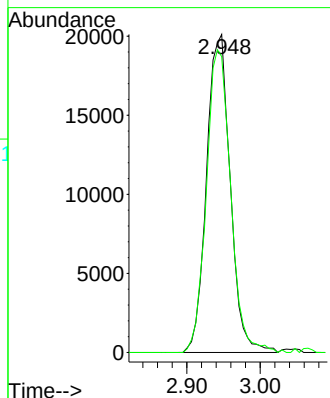
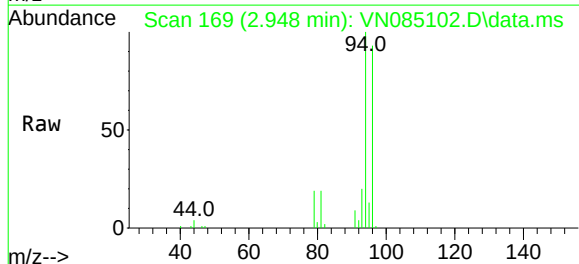
96 93.0 78.7 118.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#6

Chloroethane

Concen: 40.364 ug/l

RT: 3.118 min Scan# 198

Delta R.T. 0.053 min

Lab File: VN085102.D

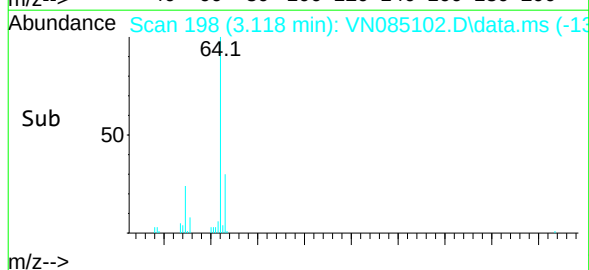
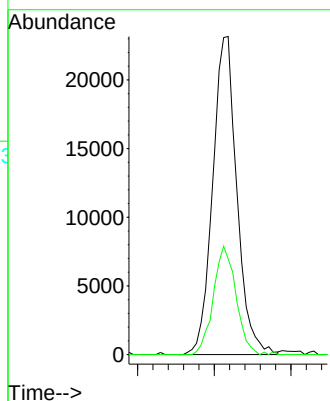
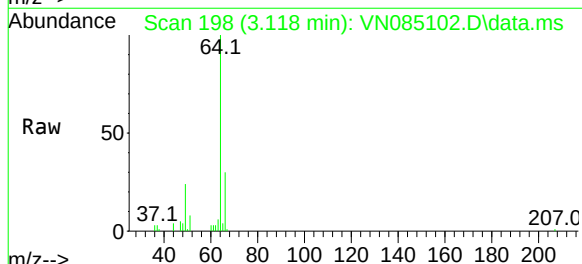
Acq: 04 Dec 2024 18:25

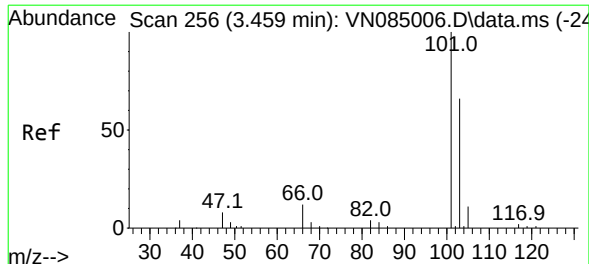
Tgt Ion: 64 Resp: 50770

Ion Ratio Lower Upper

64 100

66 30.1 24.4 36.6





#7

Trichlorofluoromethane

Concen: 47.765 ug/l

RT: 3.495 min Scan# 26

Delta R.T. 0.035 min

Lab File: VN085102.D

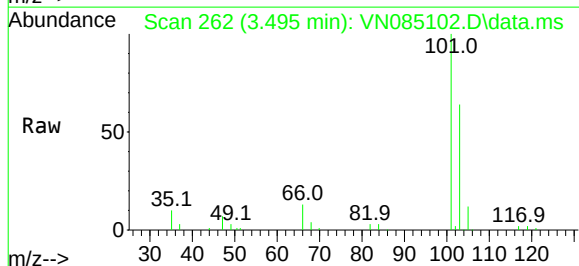
Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MS



Tgt Ion:101 Resp: 151627

Ion Ratio Lower Upper

101 100

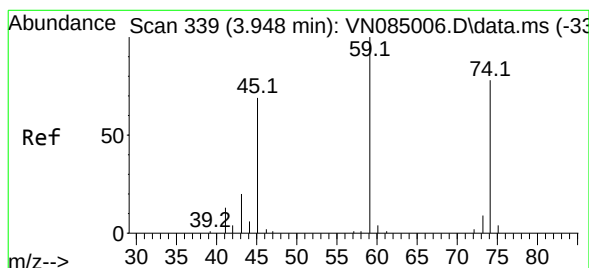
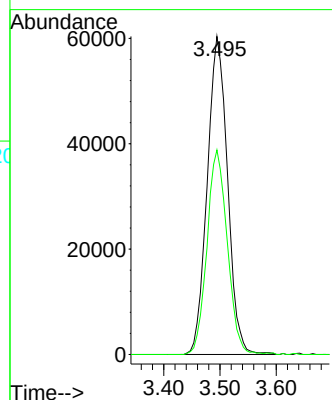
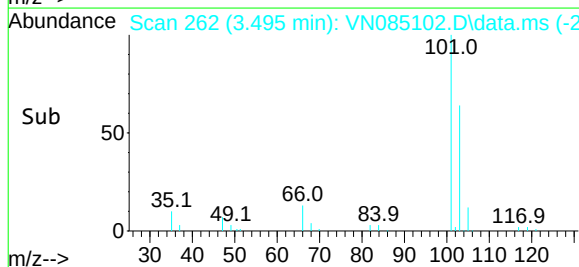
103 64.3 52.6 78.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#8

Diethyl Ether

Concen: 50.131 ug/l

RT: 3.959 min Scan# 341

Delta R.T. 0.012 min

Lab File: VN085102.D

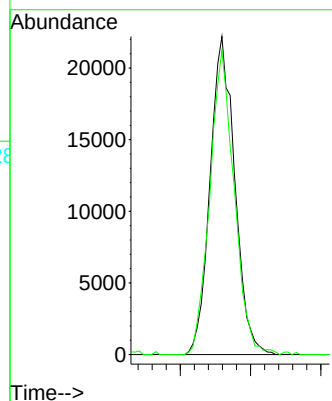
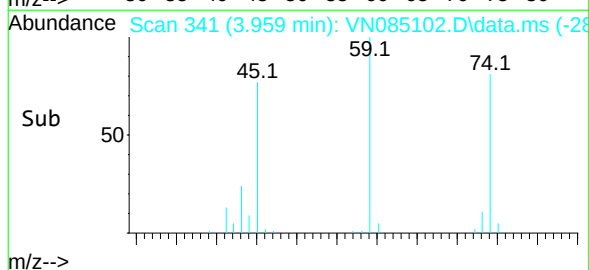
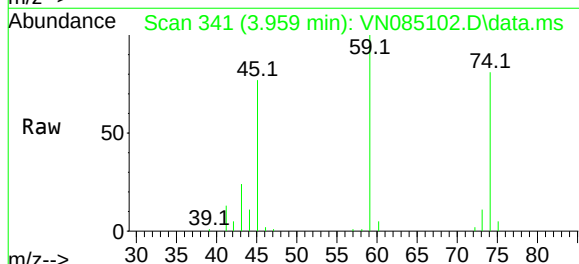
Acq: 04 Dec 2024 18:25

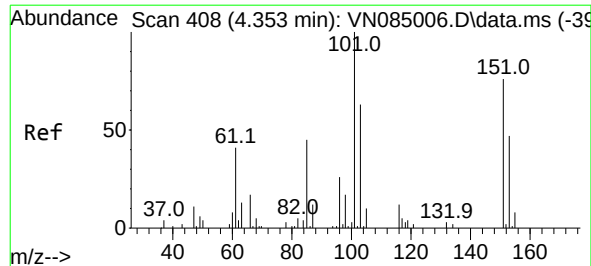
Tgt Ion: 74 Resp: 54163

Ion Ratio Lower Upper

74 100

45 94.3 46.7 140.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.466 ug/l

RT: 4.365 min Scan# 410

Delta R.T. 0.012 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

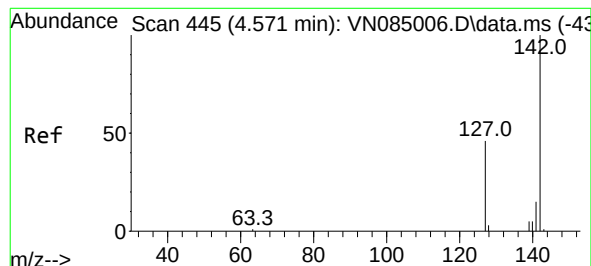
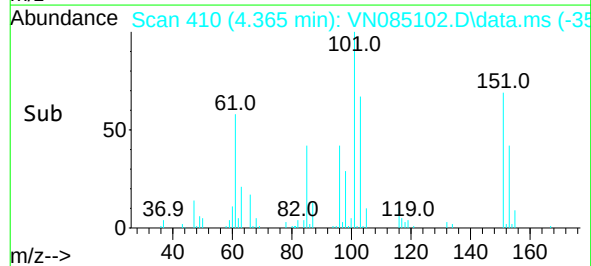
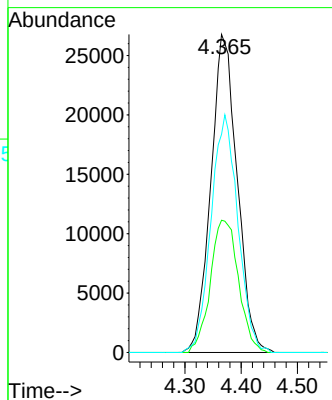
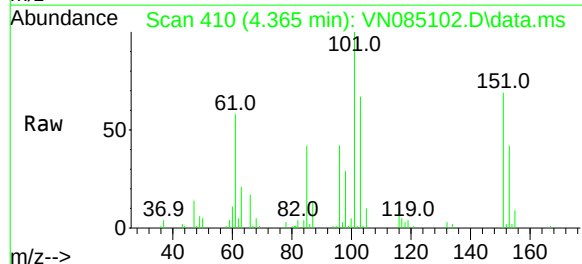
UNIT-51-RS-SW001-01MS

Tgt Ion:	101	Resp:	87259
Ion Ratio	Lower	Upper	
101	100		
85	44.2	36.9	55.3
151	76.3	60.8	91.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#10

Methyl Iodide

Concen: 42.798 ug/l

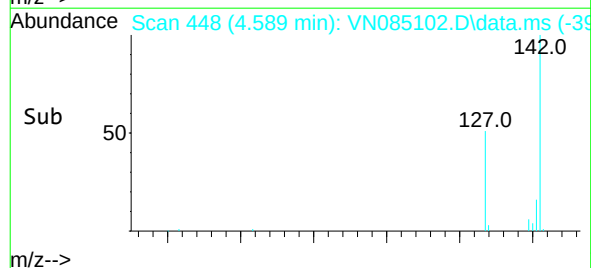
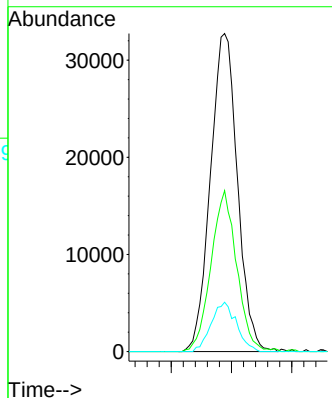
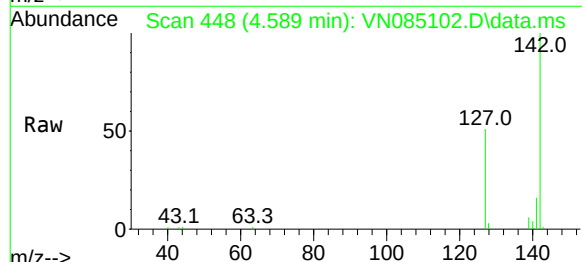
RT: 4.589 min Scan# 448

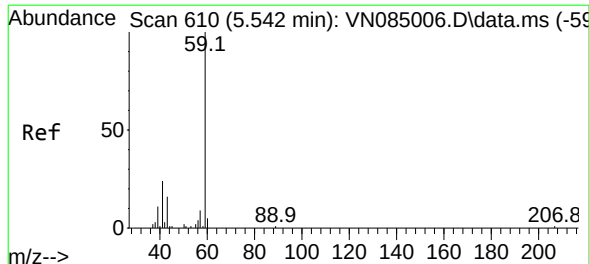
Delta R.T. 0.017 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

Tgt Ion:	142	Resp:	101995
Ion Ratio	Lower	Upper	
142	100		
127	50.6	36.6	54.8
141	15.5	12.2	18.4





#11

Tert butyl alcohol

Concen: 311.163 ug/l

RT: 5.518 min Scan# 606

Delta R.T. -0.024 min

Lab File: VN085102.D

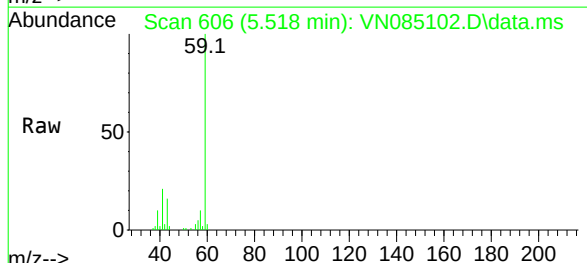
Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MS



Tgt Ion: 59 Resp: 93779

Ion Ratio Lower Upper

59 100

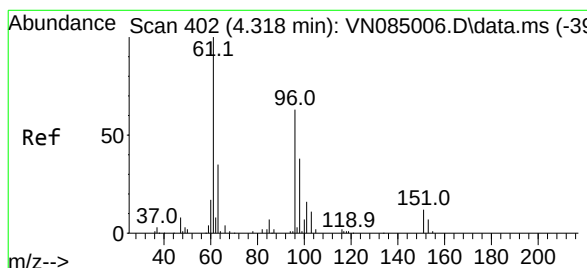
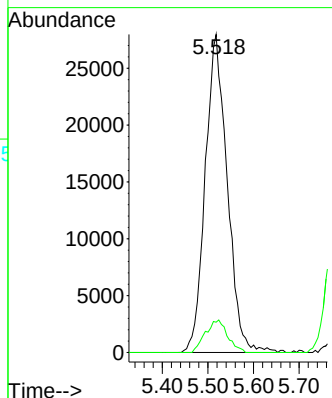
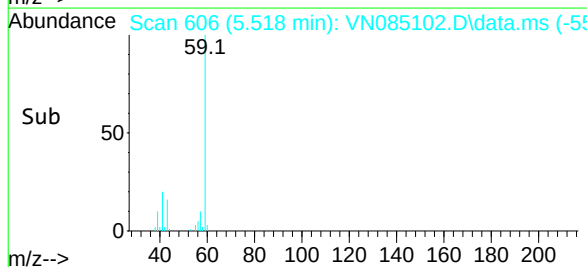
57 10.3 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#12

1,1-Dichloroethene

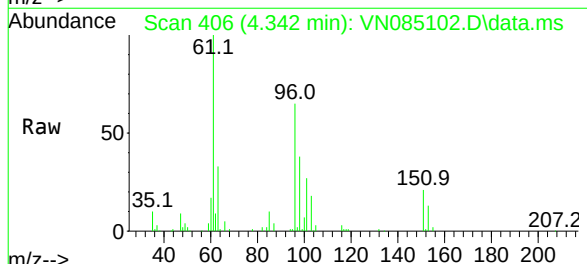
Concen: 46.786 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.023 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25



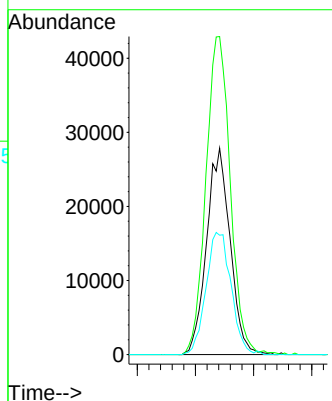
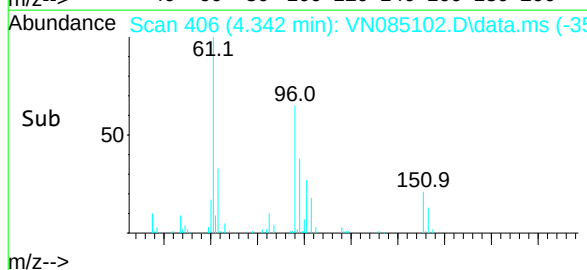
Tgt Ion: 96 Resp: 78625

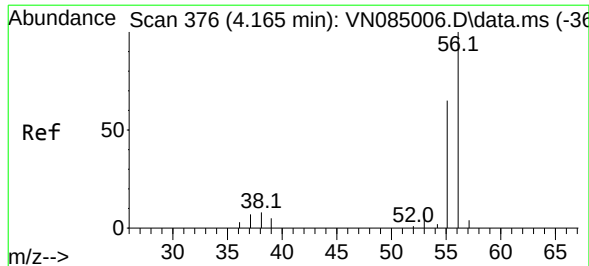
Ion Ratio Lower Upper

96 100

61 154.0 127.8 191.8

98 57.8 49.2 73.8





#13

Acrolein

Concen: 323.679 ug/l

RT: 4.177 min Scan# 37

Delta R.T. 0.012 min

Lab File: VN085102.D

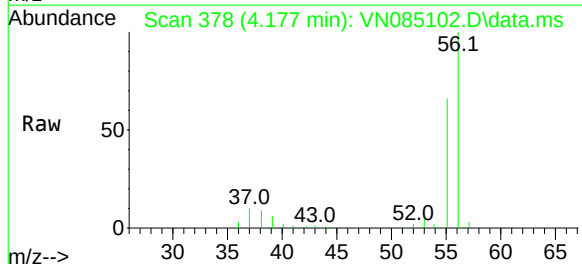
Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MS



Tgt Ion: 56 Resp: 65093

Ion Ratio Lower Upper

56 100

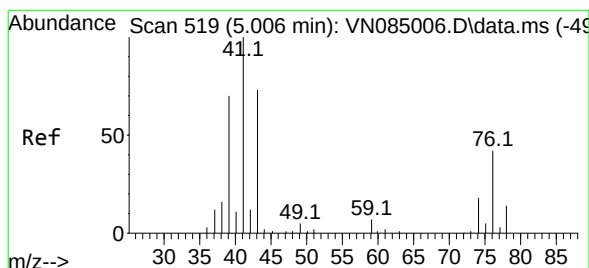
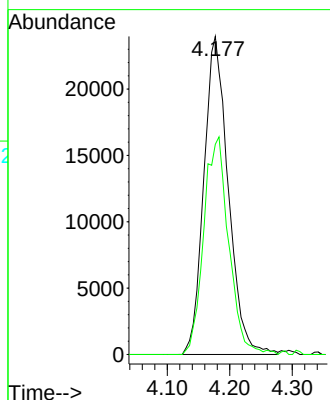
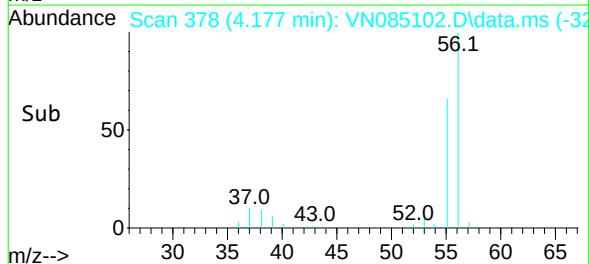
55 70.0 54.5 81.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#14

Allyl chloride

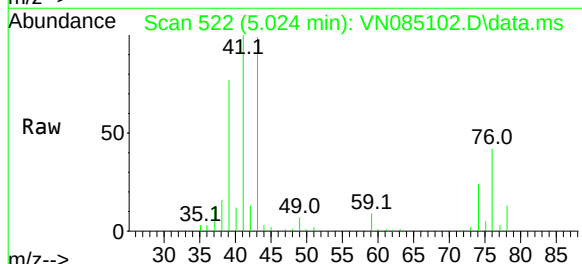
Concen: 41.385 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.017 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25



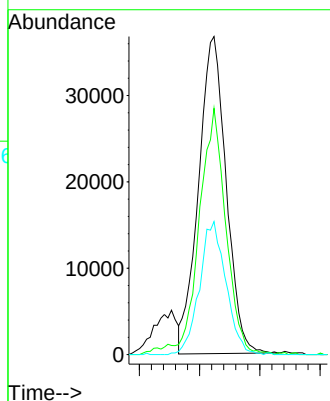
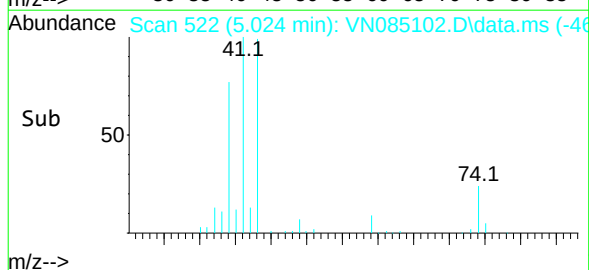
Tgt Ion: 41 Resp: 117244

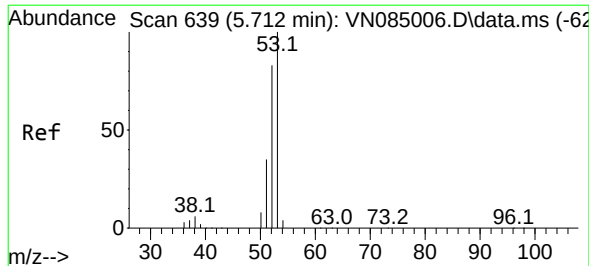
Ion Ratio Lower Upper

41 100

39 75.6 53.8 80.8

76 40.1 29.3 43.9





#15

Acrylonitrile

Concen: 280.355 ug/l

RT: 5.718 min Scan# 64

Delta R.T. 0.006 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

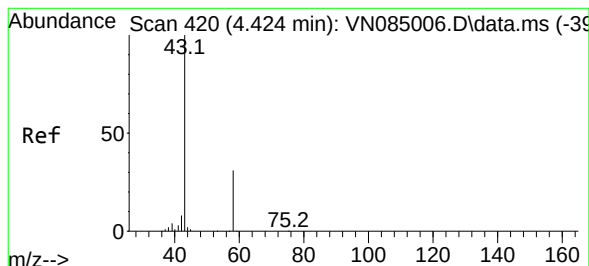
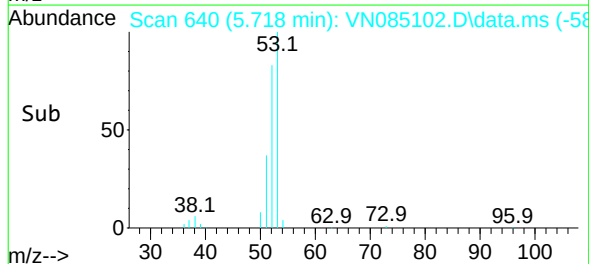
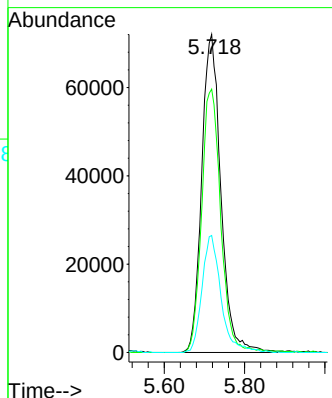
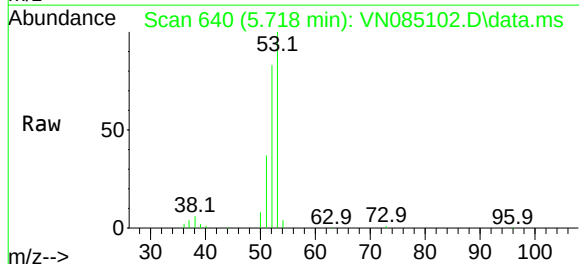
ClientSampleId :

UNIT-51-RS-SW001-01MS

Tgt Ion:	53	Resp:	239216
Ion	Ratio	Lower	Upper
53	100		
52	82.0	65.5	98.3
51	36.4	28.4	42.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#16

Acetone

Concen: 292.371 ug/l

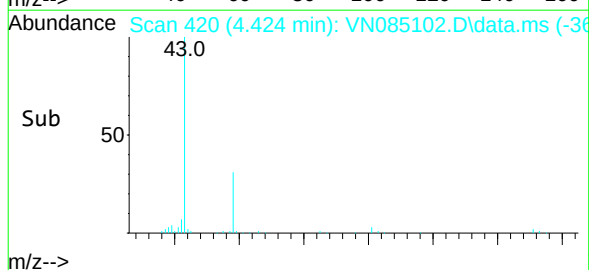
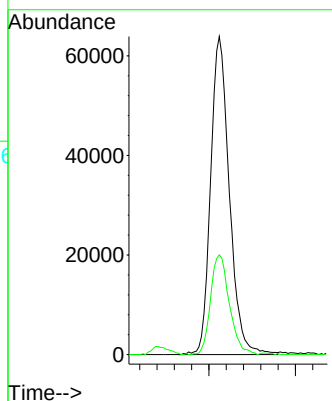
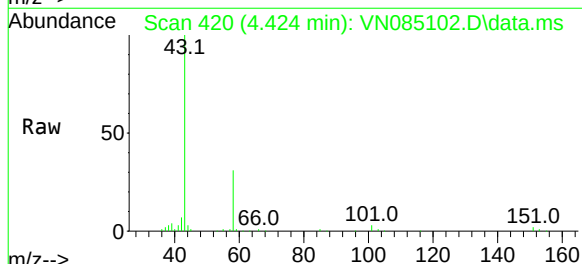
RT: 4.424 min Scan# 420

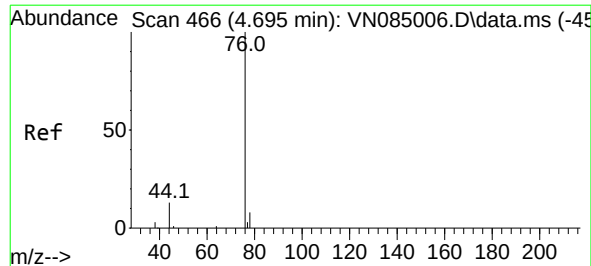
Delta R.T. -0.000 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

Tgt Ion:	43	Resp:	192040
Ion	Ratio	Lower	Upper
43	100		
58	31.0	25.4	38.2





#17

Carbon Disulfide

Concen: 35.627 ug/l

RT: 4.712 min Scan# 46

Delta R.T. 0.017 min

Lab File: VN085102.D

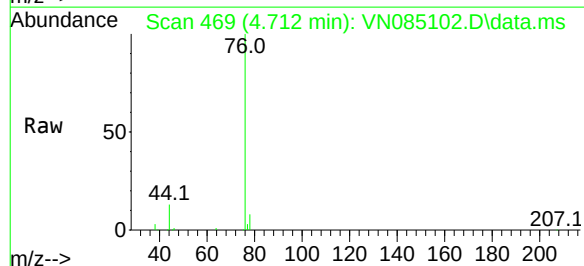
Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MS



Tgt Ion: 76 Resp: 176722

Ion Ratio Lower Upper

76 100

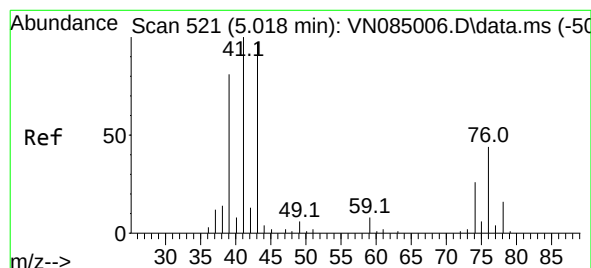
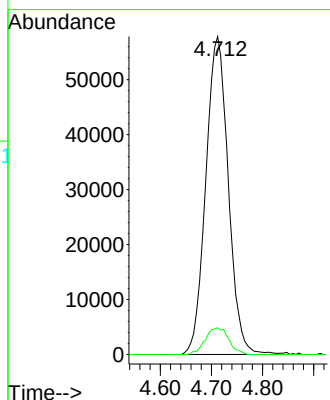
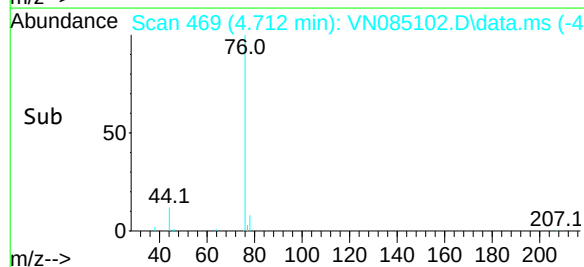
78 8.4 6.5 9.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#18

Methyl Acetate

Concen: 57.188 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN085102.D

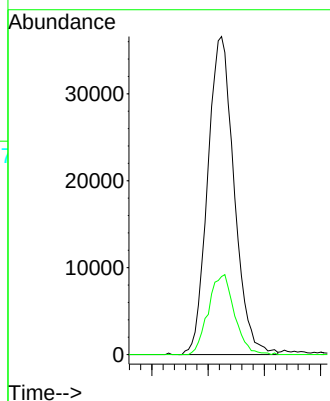
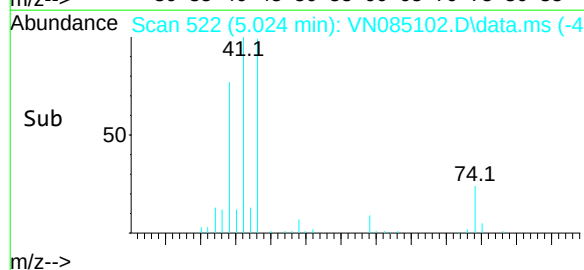
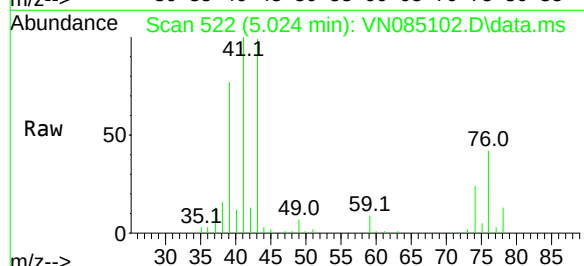
Acq: 04 Dec 2024 18:25

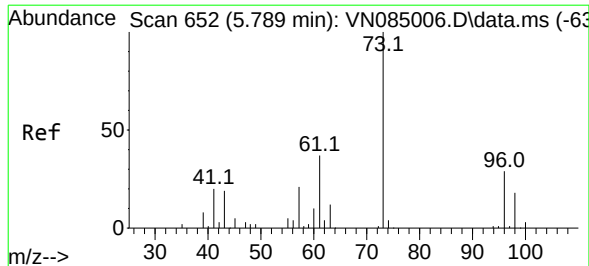
Tgt Ion: 43 Resp: 119714

Ion Ratio Lower Upper

43 100

74 24.8 20.1 30.1





#19

Methyl tert-butyl Ether

Concen: 53.822 ug/l

RT: 5.794 min Scan# 65

Delta R.T. 0.006 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MS

Tgt Ion: 73 Resp: 295529

Ion Ratio Lower Upper

73 100

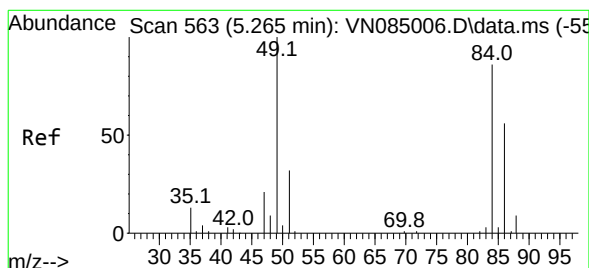
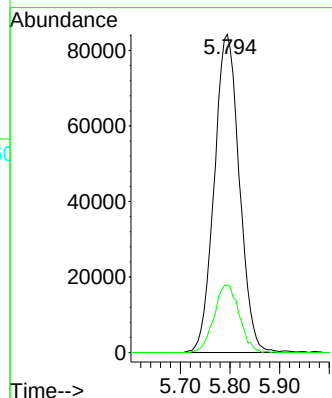
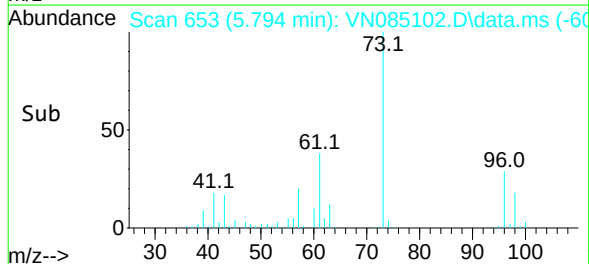
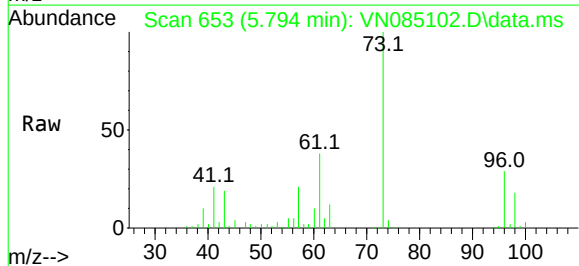
57 21.2 17.0 25.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#20

Methylene Chloride

Concen: 46.644 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.012 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

Tgt Ion: 84 Resp: 93490

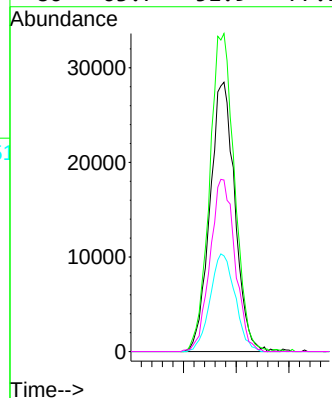
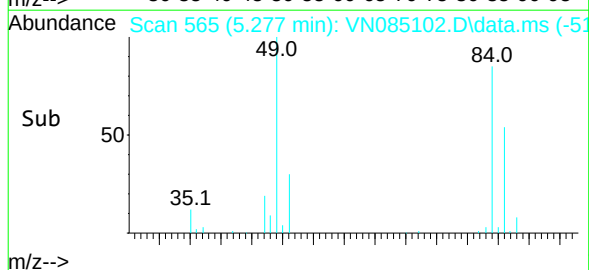
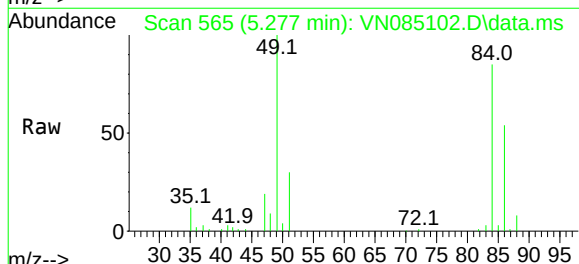
Ion Ratio Lower Upper

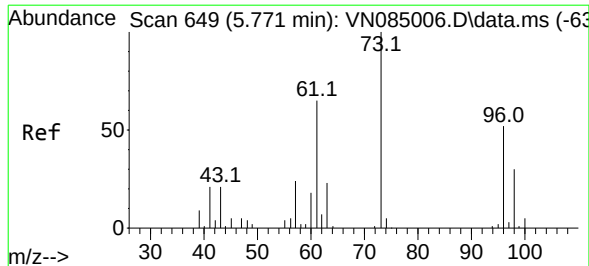
84 100

49 118.1 92.7 139.1

51 35.5 29.4 44.2

86 63.7 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 45.246 ug/l

RT: 5.783 min Scan# 65

Delta R.T. 0.012 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MS

Tgt Ion: 96 Resp: 80016

Ion Ratio Lower Upper

96 100

61 142.2 100.7 151.1

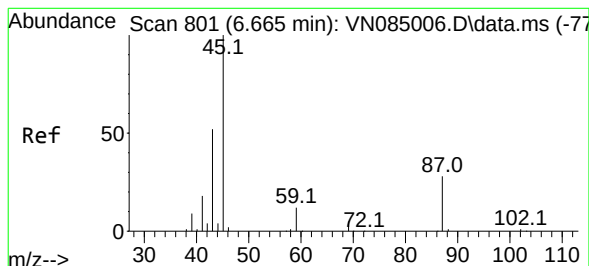
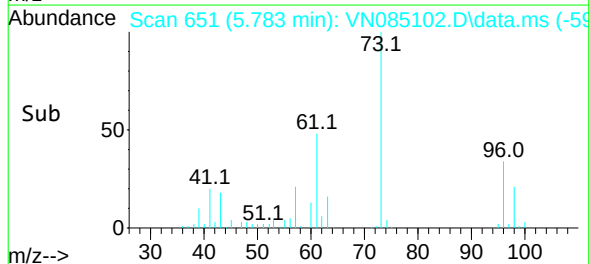
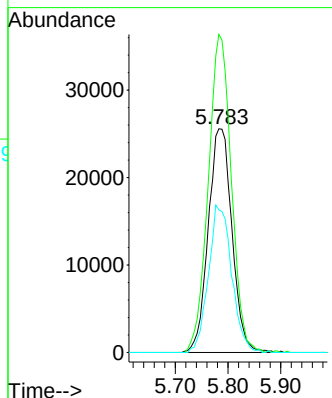
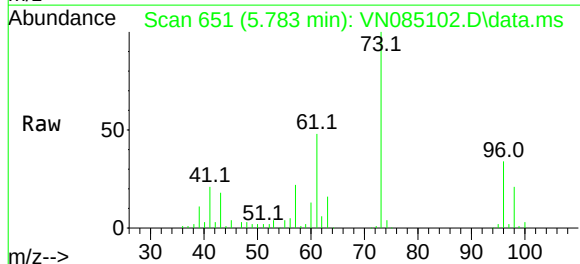
98 63.8 45.8 68.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#22

Diisopropyl ether

Concen: 51.400 ug/l

RT: 6.671 min Scan# 802

Delta R.T. 0.006 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

Tgt Ion: 45 Resp: 293076

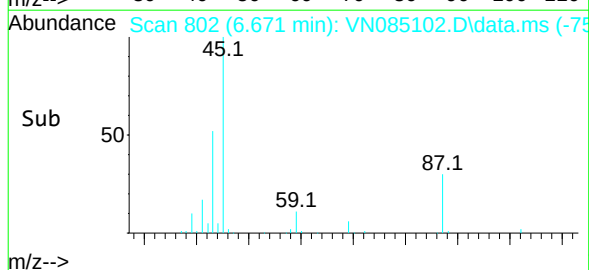
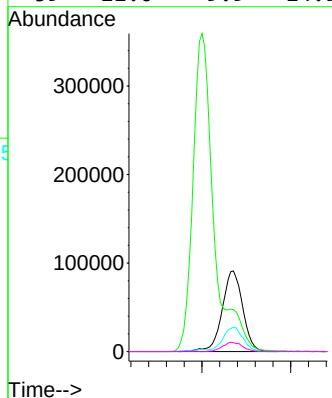
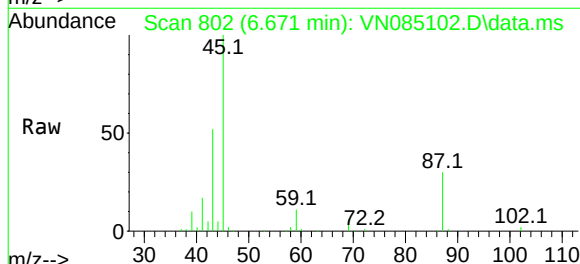
Ion Ratio Lower Upper

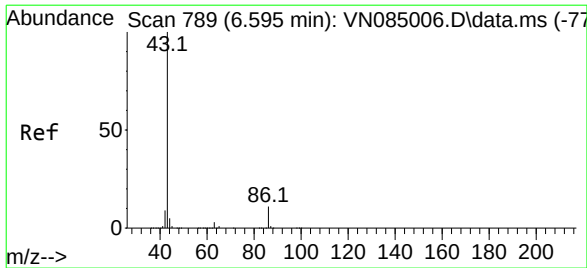
45 100

43 51.3 42.7 64.1

87 30.3 22.6 34.0

59 11.0 9.9 14.9





#23

Vinyl Acetate

Concen: 296.797 ug/l

RT: 6.600 min Scan# 79

Delta R.T. 0.006 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MS

Tgt Ion: 43 Resp: 1167488

Ion Ratio Lower Upper

43 100

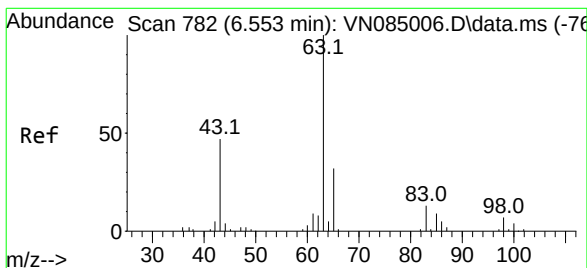
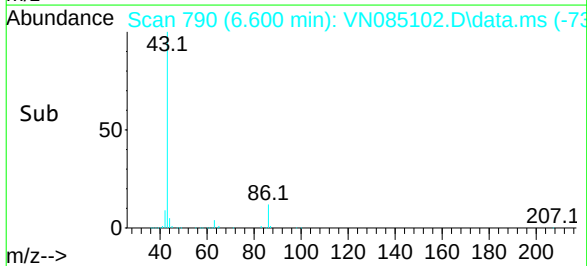
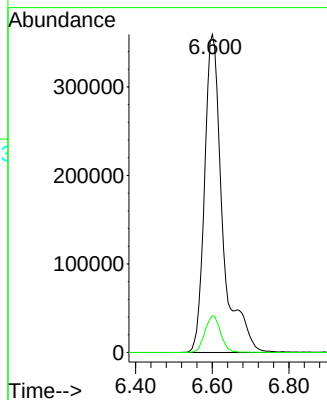
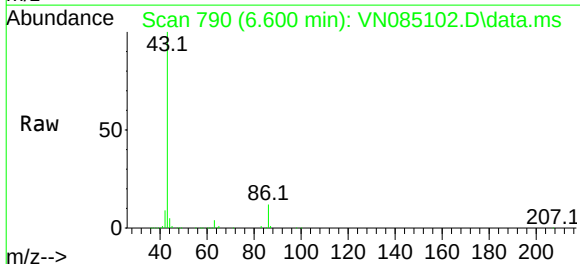
86 11.5 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#24

1,1-Dichloroethane

Concen: 49.224 ug/l

RT: 6.565 min Scan# 784

Delta R.T. 0.012 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

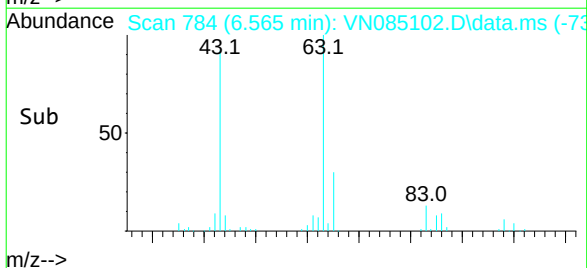
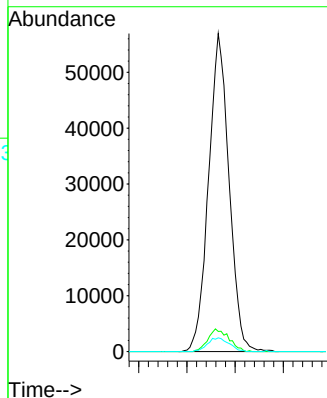
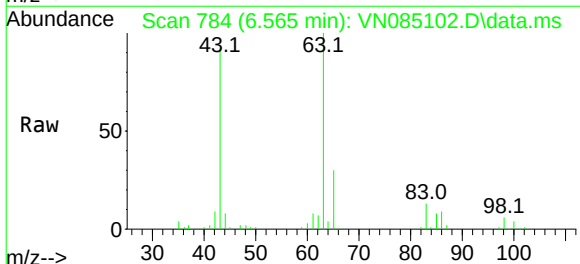
Tgt Ion: 63 Resp: 167960

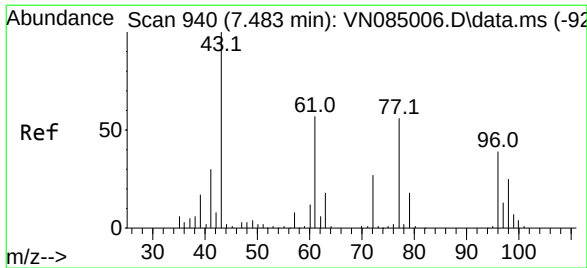
Ion Ratio Lower Upper

63 100

98 6.3 3.3 9.8

100 4.3 2.2 6.6





#25

2-Butanone

Concen: 286.094 ug/l

RT: 7.477 min Scan# 93

Delta R.T. -0.006 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MS

Tgt Ion: 43 Resp: 307229

Ion Ratio Lower Upper

43 100

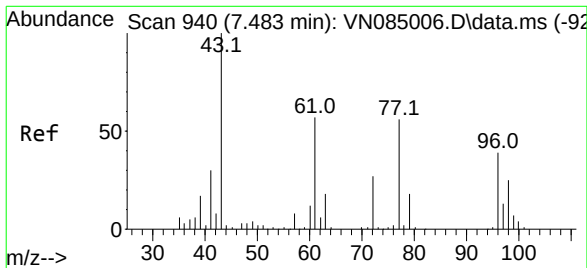
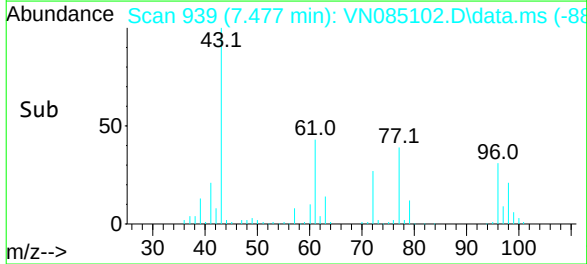
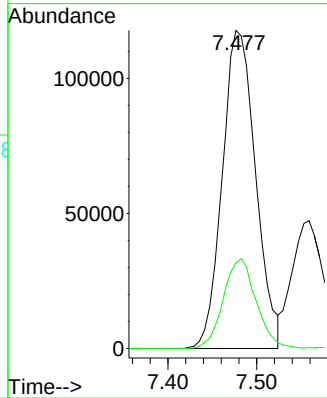
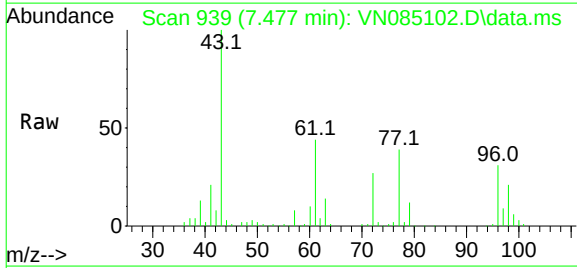
72 27.0 21.4 32.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#26

2,2-Dichloropropane

Concen: 47.702 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN085102.D

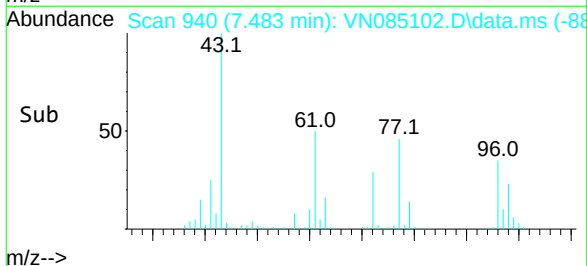
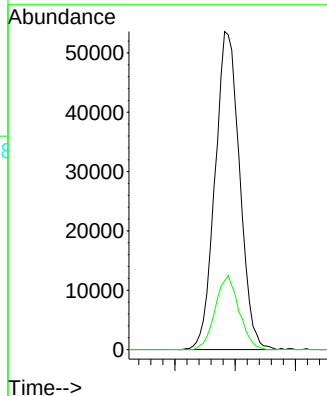
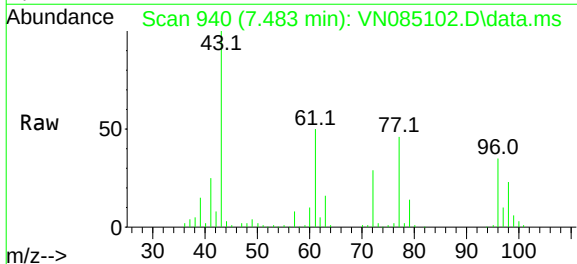
Acq: 04 Dec 2024 18:25

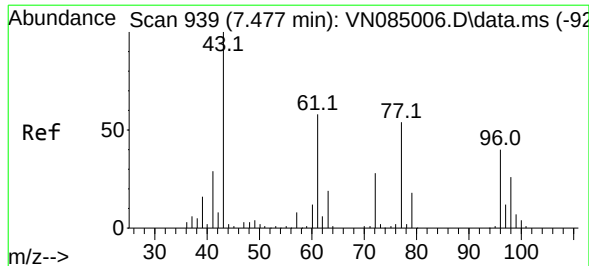
Tgt Ion: 77 Resp: 151987

Ion Ratio Lower Upper

77 100

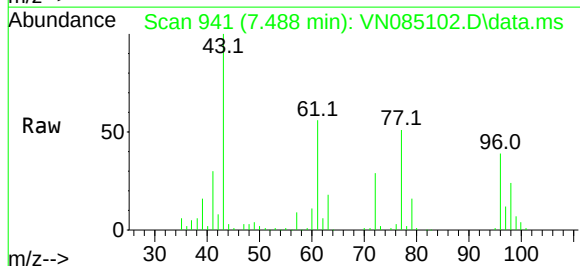
97 22.4 10.9 32.7





#27
cis-1,2-Dichloroethene
Concen: 50.020 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN085102.D
Acq: 04 Dec 2024 18:25

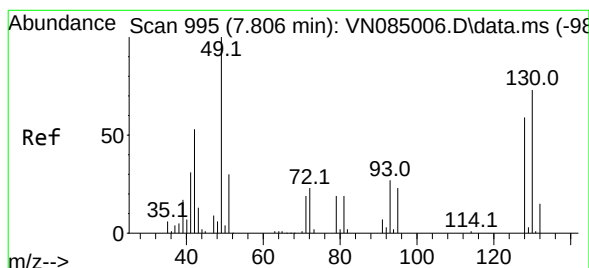
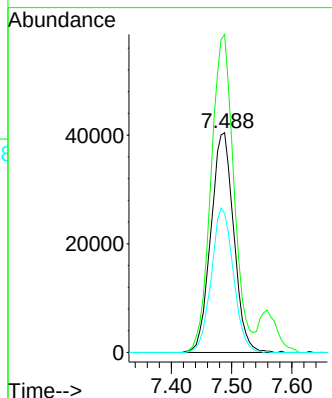
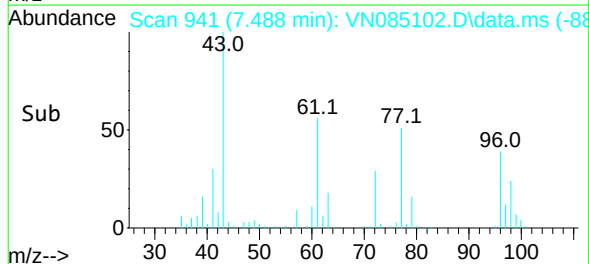
Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-RS-SW001-01MS



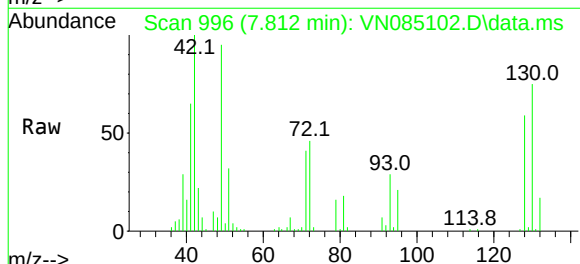
Tgt Ion: 96 Resp: 106641
Ion Ratio Lower Upper
96 100
61 144.4 0.0 291.6
98 63.4 0.0 129.8

Manual Integrations
APPROVED

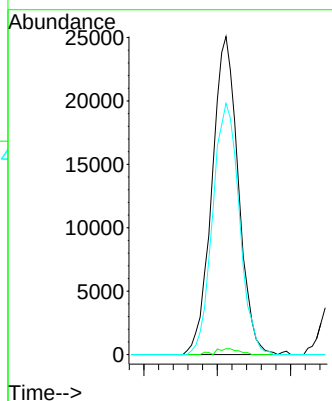
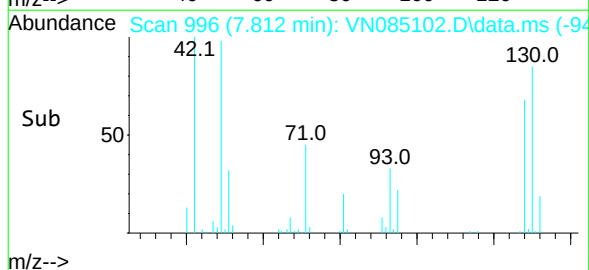
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024

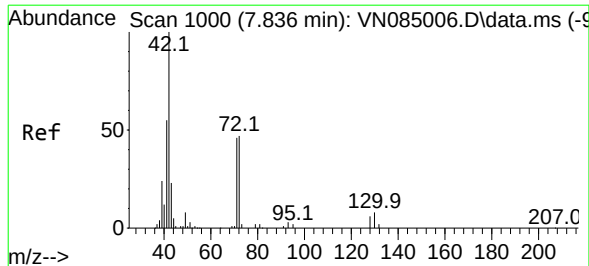


#28
Bromochloromethane
Concen: 48.600 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN085102.D
Acq: 04 Dec 2024 18:25



Tgt Ion: 49 Resp: 62599
Ion Ratio Lower Upper
49 100
129 1.7 0.0 4.0
130 79.9 60.6 90.8





#29

Tetrahydrofuran

Concen: 296.536 ug/l

RT: 7.835 min Scan# 10

Delta R.T. -0.000 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MS

Tgt Ion: 42 Resp: 198029

Ion Ratio Lower Upper

42 100

72 47.1 37.0 55.4

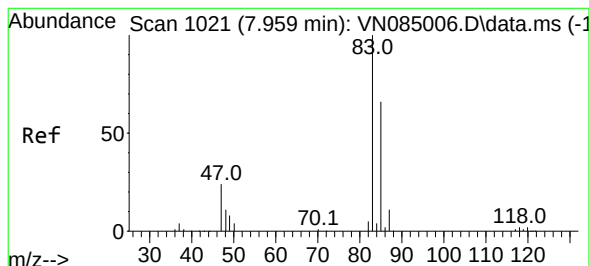
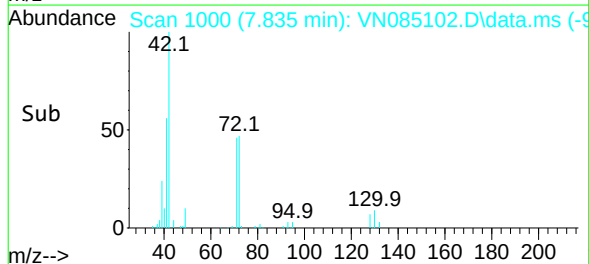
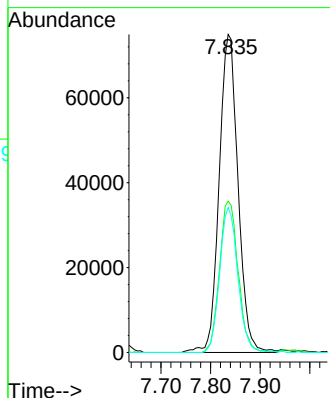
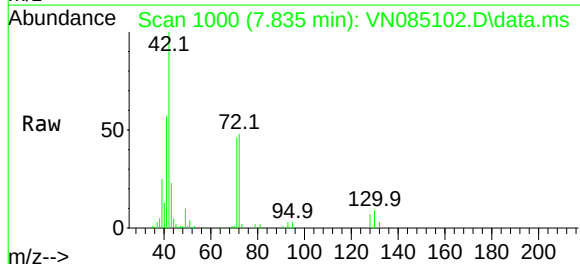
71 43.8 35.0 52.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#30

Chloroform

Concen: 49.758 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN085102.D

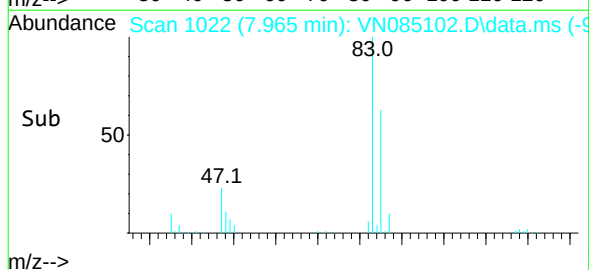
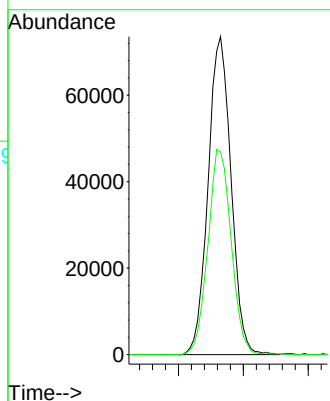
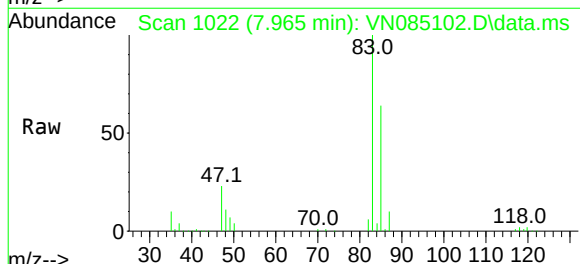
Acq: 04 Dec 2024 18:25

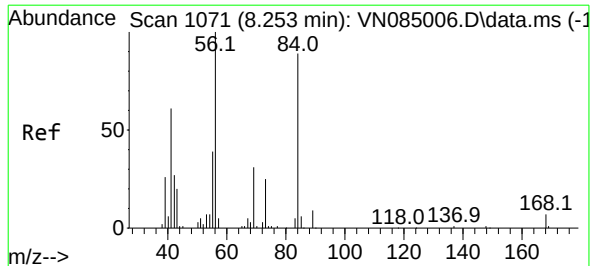
Tgt Ion: 83 Resp: 180604

Ion Ratio Lower Upper

83 100

85 63.8 52.6 78.8





#31

Cyclohexane

Concen: 41.900 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MS

Tgt Ion: 56 Resp: 125878

Ion Ratio Lower Upper

56 100

69 32.0 24.6 36.8

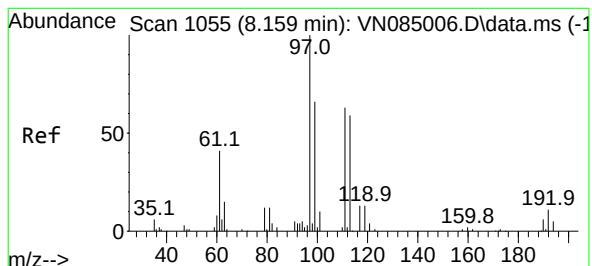
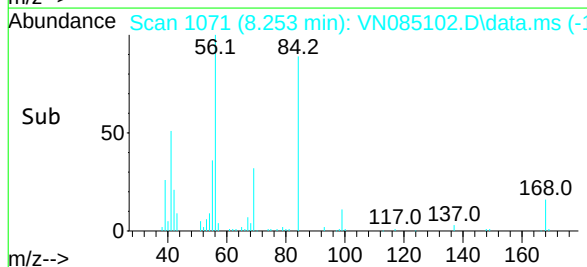
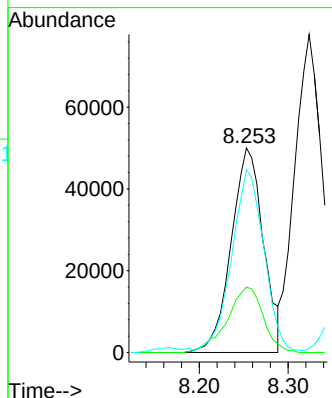
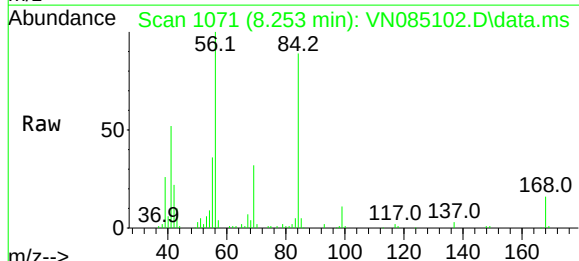
84 87.8 71.4 107.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#32

1,1,1-Trichloroethane

Concen: 50.148 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

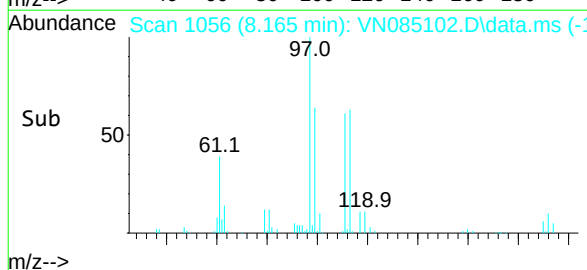
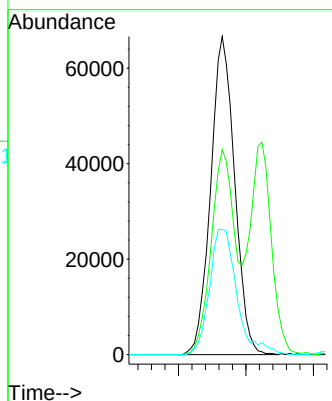
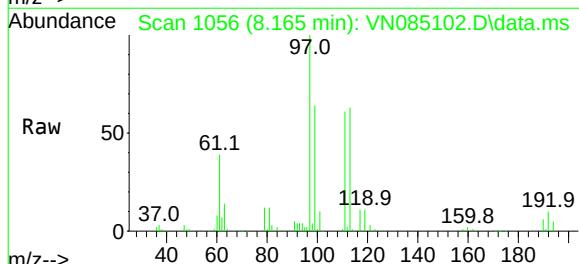
Tgt Ion: 97 Resp: 164481

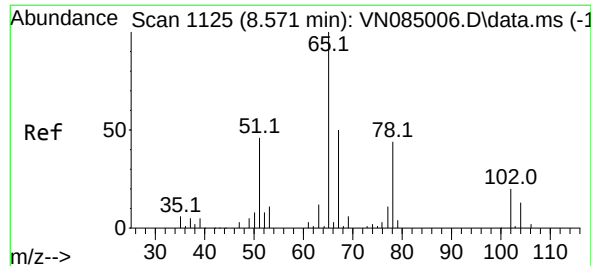
Ion Ratio Lower Upper

97 100

99 64.3 51.0 76.4

61 45.0 36.2 54.2





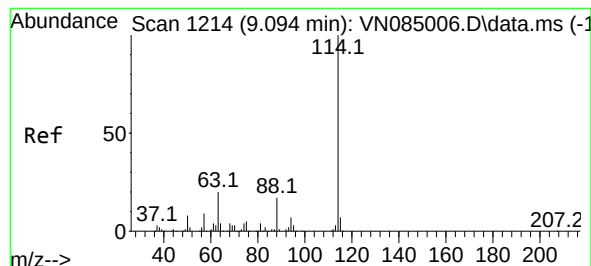
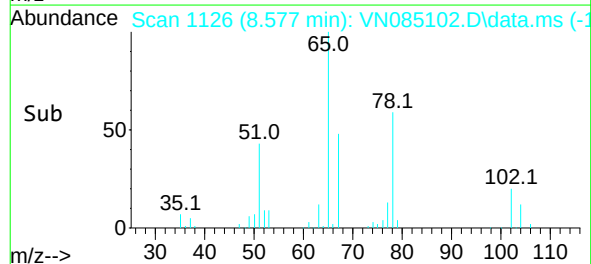
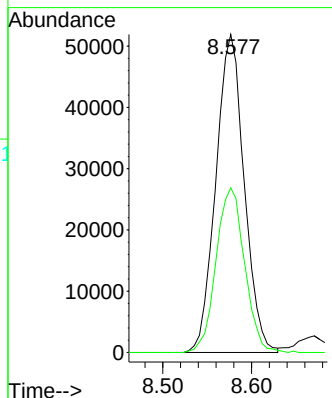
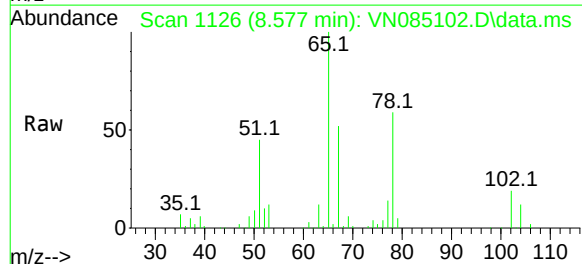
#33
1,2-Dichloroethane-d4
Concen: 51.012 ug/l
RT: 8.577 min Scan# 1125
Delta R.T. 0.006 min
Lab File: VN085102.D
Acq: 04 Dec 2024 18:25

Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-RS-SW001-01MS

Tgt Ion: 65 Resp: 115049
Ion Ratio Lower Upper
65 100
67 52.0 0.0 105.0

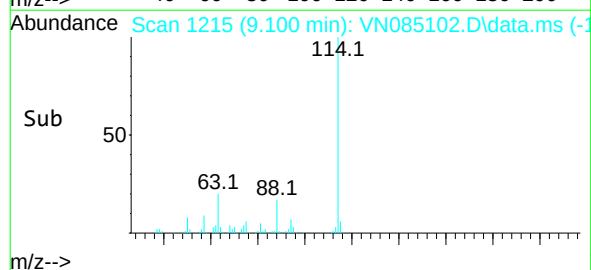
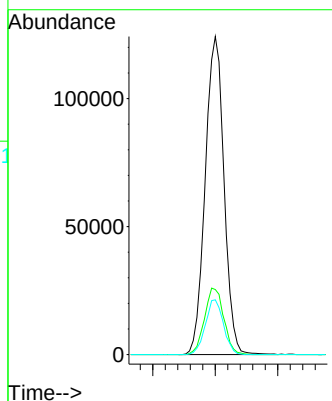
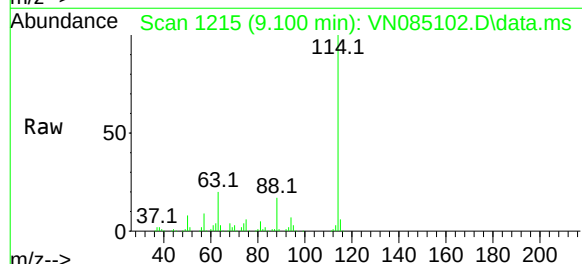
Manual Integrations
APPROVED

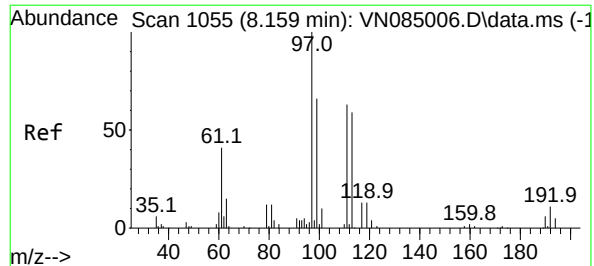
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085102.D
Acq: 04 Dec 2024 18:25

Tgt Ion:114 Resp: 259564
Ion Ratio Lower Upper
114 100
63 20.5 0.0 41.0
88 17.2 0.0 34.8





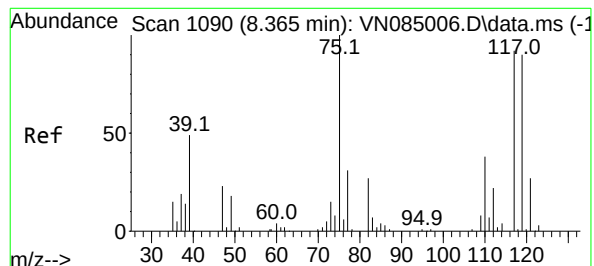
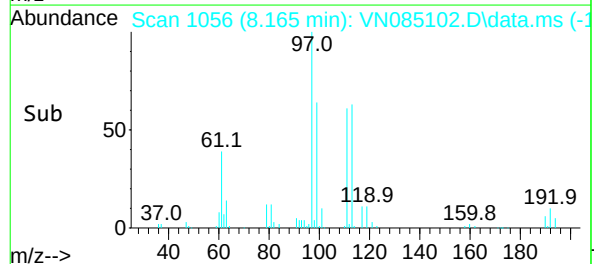
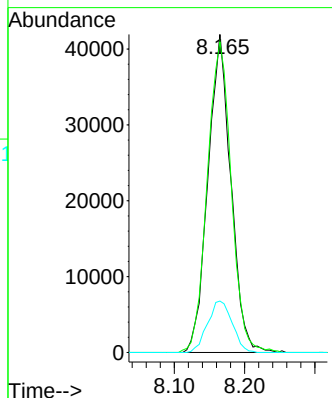
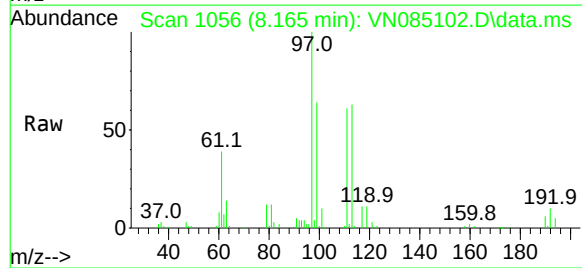
#35
Dibromofluoromethane
Concen: 54.179 ug/l
RT: 8.165 min Scan# 1055
Delta R.T. 0.006 min
Lab File: VN085102.D
Acq: 04 Dec 2024 18:25

Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-RS-SW001-01MS

Tgt Ion: 113 Resp: 94835
Ion Ratio Lower Upper
113 100
111 102.3 82.0 123.0
192 17.4 14.8 22.2

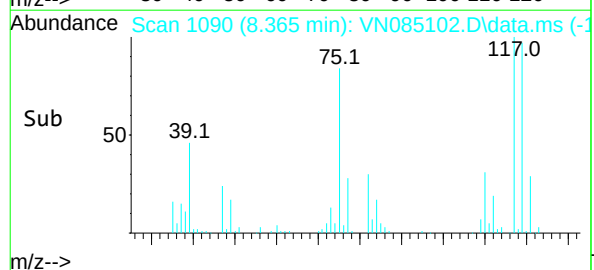
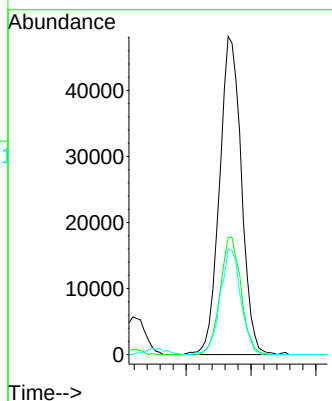
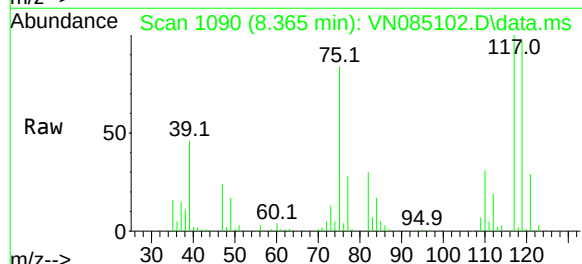
Manual Integrations
APPROVED

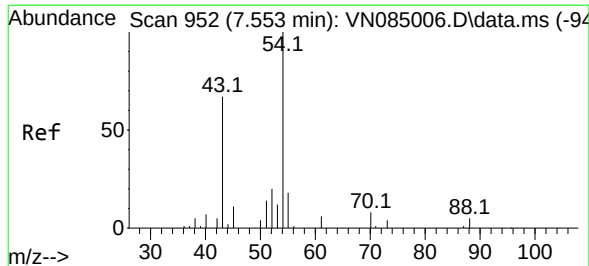
Reviewed By : John Carlone 12/05/2024
Supervised By : Mahesh Dadoda 12/05/2024



#36
1,1-Dichloropropene
Concen: 47.592 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.000 min
Lab File: VN085102.D
Acq: 04 Dec 2024 18:25

Tgt Ion: 75 Resp: 112837
Ion Ratio Lower Upper
75 100
110 35.2 17.2 51.6
77 31.4 24.2 36.4





#37

Ethyl Acetate

Concen: 56.158 ug/l

RT: 7.559 min Scan# 95

Delta R.T. 0.006 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

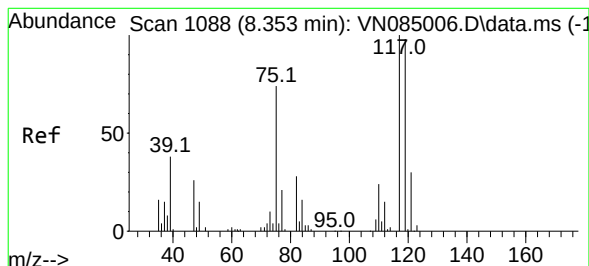
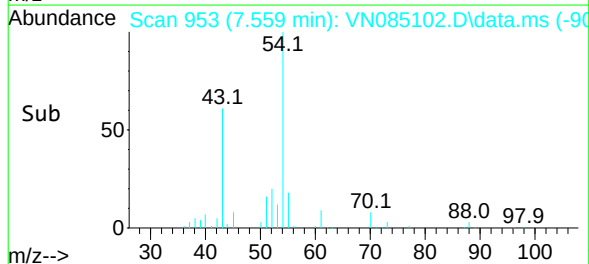
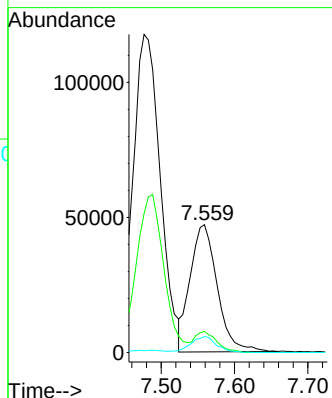
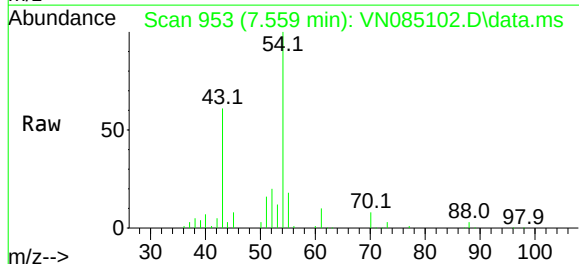
UNIT-51-RS-SW001-01MS

Tgt Ion:	43	Resp:	121044
Ion	Ratio	Lower	Upper
43	100		
61	13.8	11.7	17.5
70	11.8	9.3	13.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#38

Carbon Tetrachloride

Concen: 52.182 ug/l

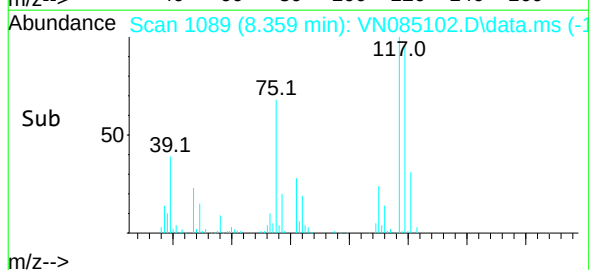
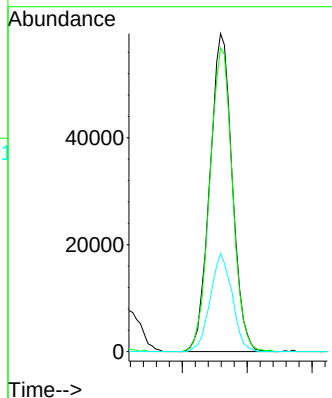
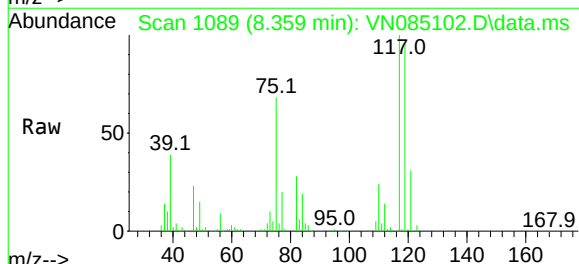
RT: 8.359 min Scan# 1089

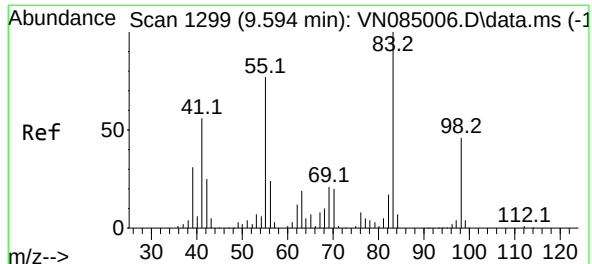
Delta R.T. 0.006 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

Tgt Ion:	117	Resp:	142809
Ion	Ratio	Lower	Upper
117	100		
119	95.5	78.6	117.8
121	30.9	24.2	36.2





#39

Methylcyclohexane

Concen: 47.671 ug/l

RT: 9.600 min Scan# 13

Delta R.T. 0.006 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MS

Tgt Ion: 83 Resp: 117448

Ion Ratio Lower Upper

83 100

55 79.4 61.8 92.6

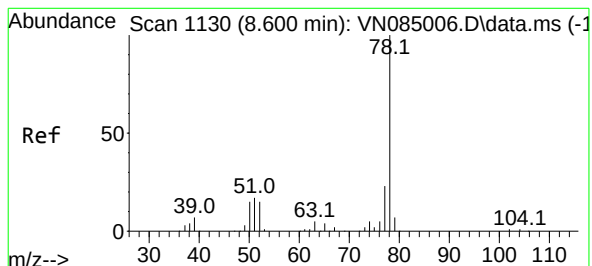
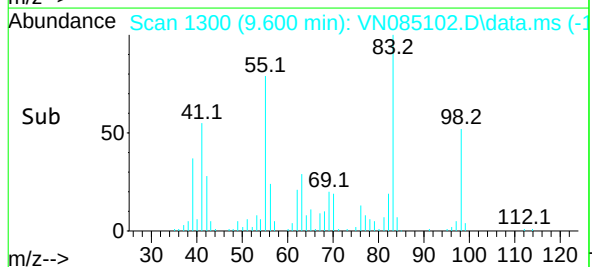
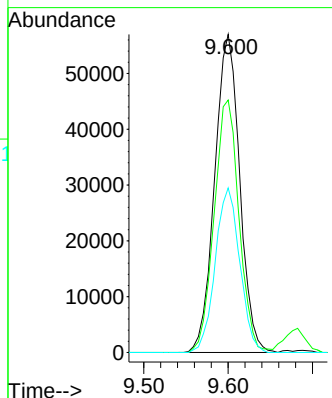
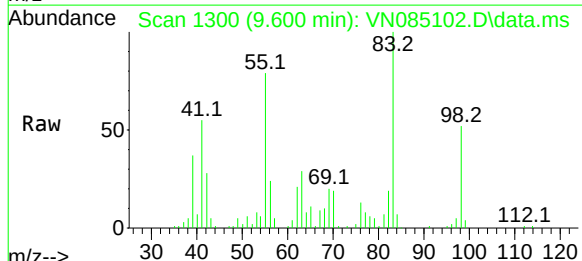
98 51.7 37.0 55.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#40

Benzene

Concen: 49.446 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VN085102.D

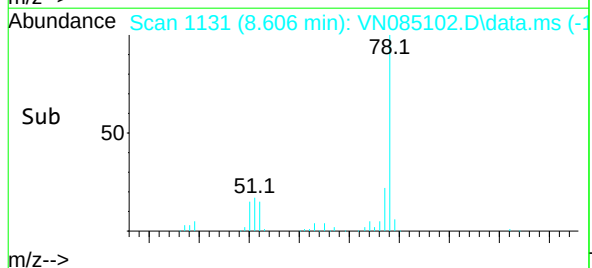
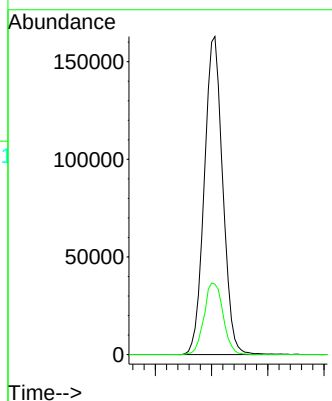
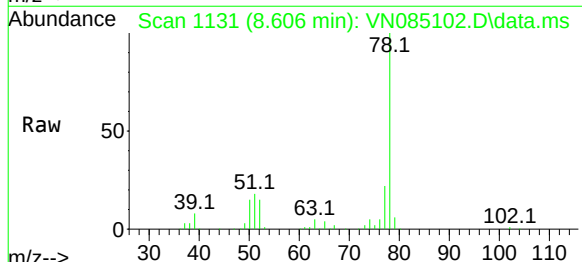
Acq: 04 Dec 2024 18:25

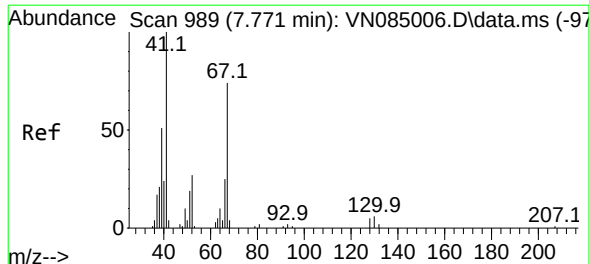
Tgt Ion: 78 Resp: 370783

Ion Ratio Lower Upper

78 100

77 22.1 18.5 27.7





#41

Methacrylonitrile

Concen: 56.503 ug/l

RT: 7.771 min Scan# 989

Delta R.T. -0.000 min

Lab File: VN085102.D

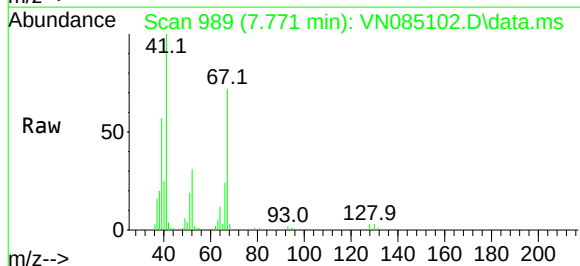
Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MS

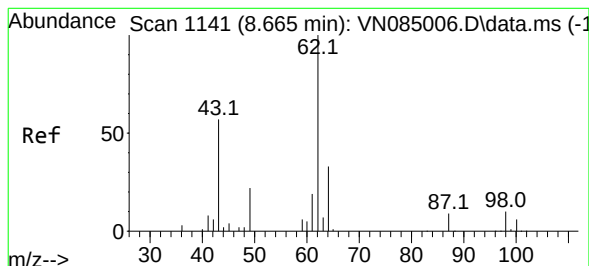
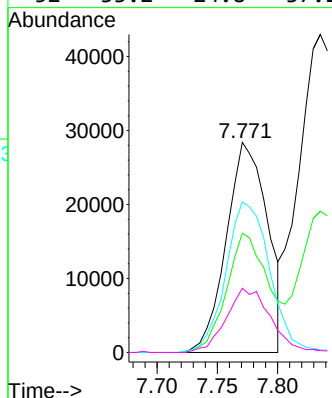
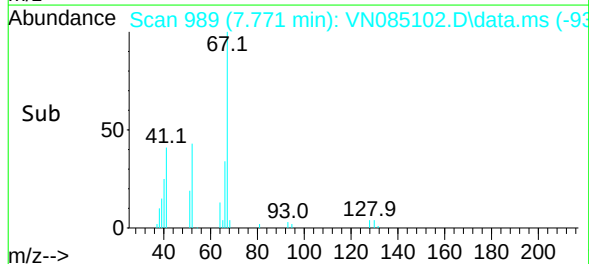


Tgt Ion:	41	Resp:	67431
Ion	Ratio	Lower	Upper
41	100		
39	59.0	42.6	63.8
67	76.9	59.9	89.9
52	33.2	24.8	37.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#42

1,2-Dichloroethane

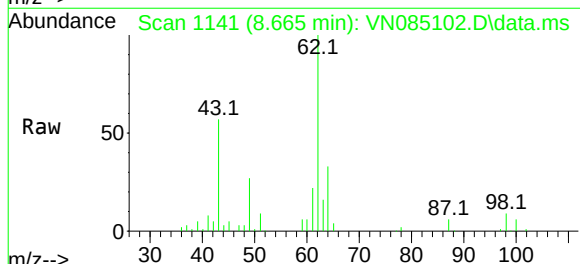
Concen: 51.004 ug/l

RT: 8.665 min Scan# 1141

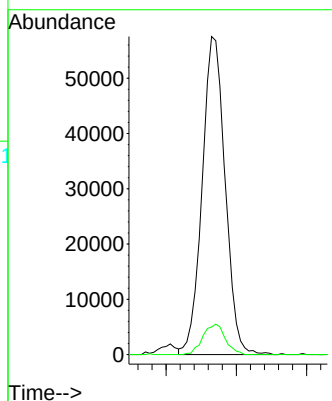
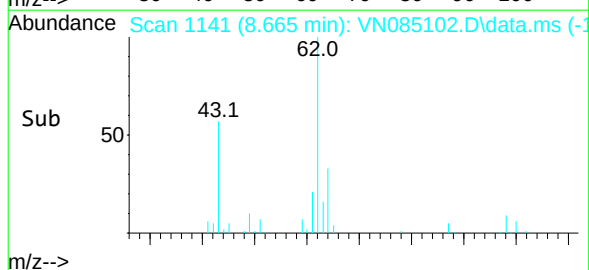
Delta R.T. -0.000 min

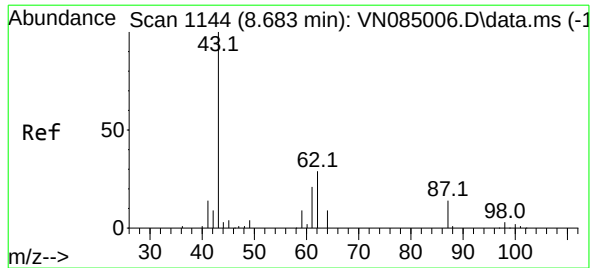
Lab File: VN085102.D

Acq: 04 Dec 2024 18:25



Tgt Ion:	62	Resp:	130846
Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	18.2





#43

Isopropyl Acetate

Concen: 49.260 ug/l

RT: 8.688 min Scan# 1144

Delta R.T. 0.006 min

Lab File: VN085102.D

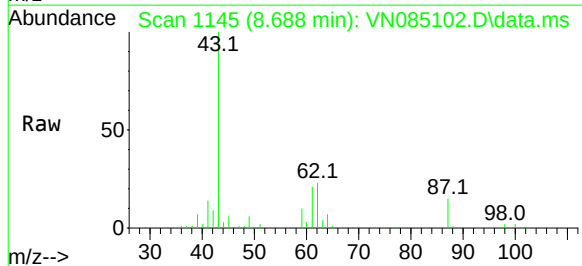
Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MS

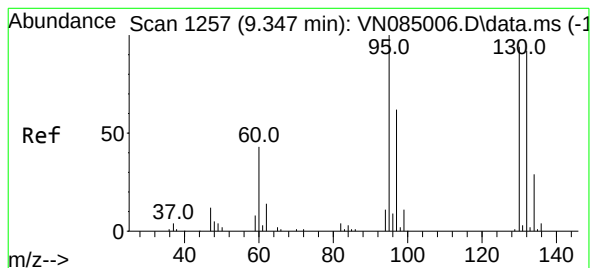
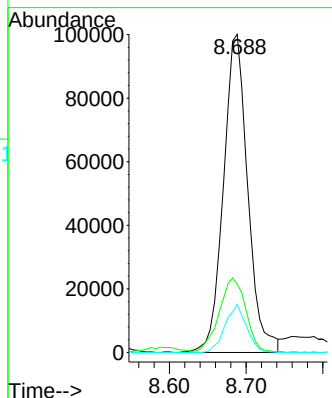
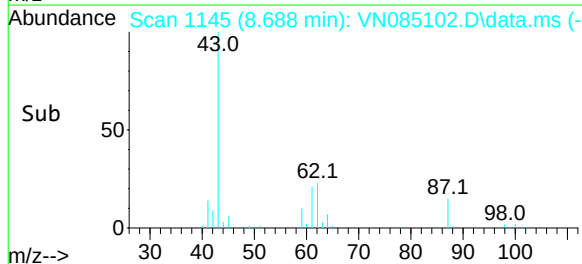


Tgt Ion:	43	Resp:	220545
Ion	Ratio	Lower	Upper
43	100		
61	25.9	20.6	30.8
87	13.3	11.0	16.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#44

Trichloroethene

Concen: 50.457 ug/l

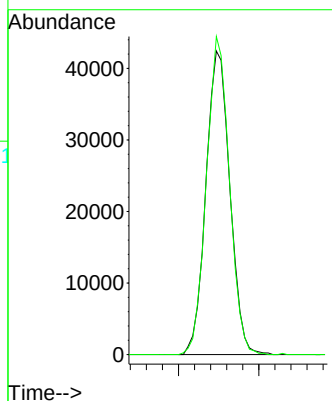
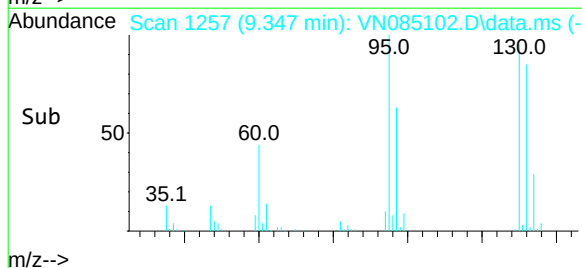
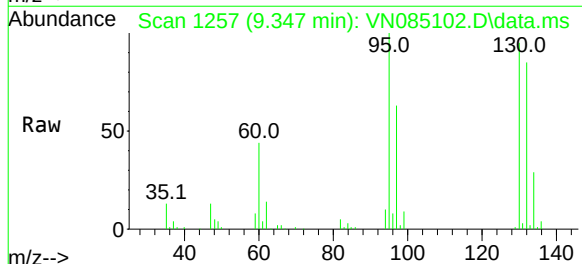
RT: 9.347 min Scan# 1257

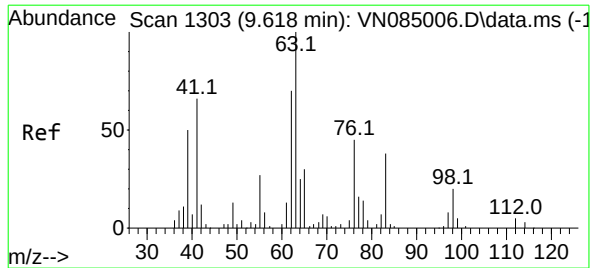
Delta R.T. -0.000 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

Tgt Ion:	130	Resp:	87931
Ion	Ratio	Lower	Upper
130	100		
95	104.8	0.0	213.4





#45

1,2-Dichloropropane

Concen: 50.976 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN085102.D

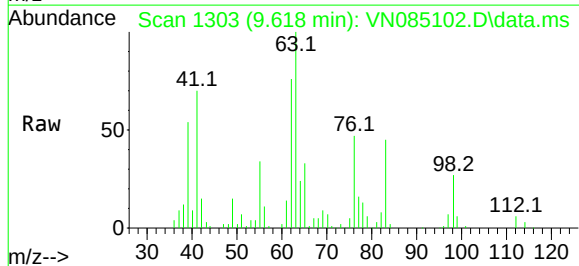
Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

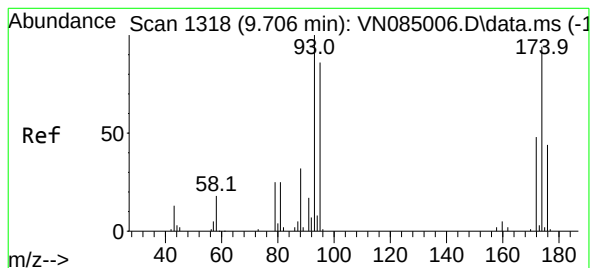
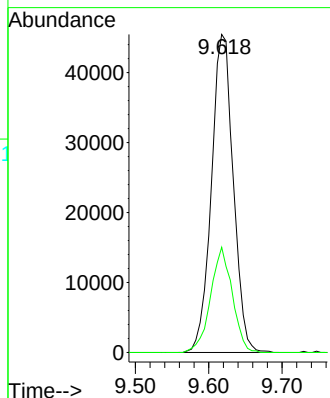
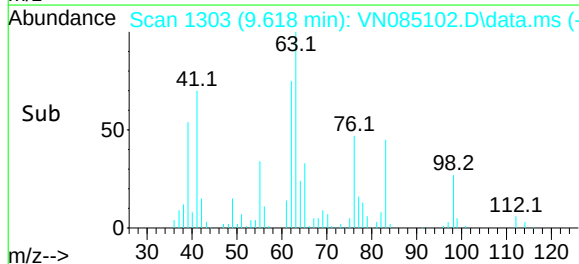
UNIT-51-RS-SW001-01MS



Tgt Ion:	63	Resp:	94150
Ion	Ratio	Lower	Upper
63	100		
65	33.1	24.0	36.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#46

Dibromomethane

Concen: 51.816 ug/l

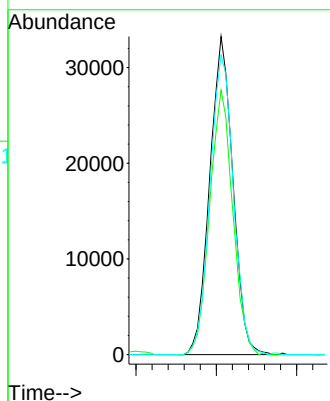
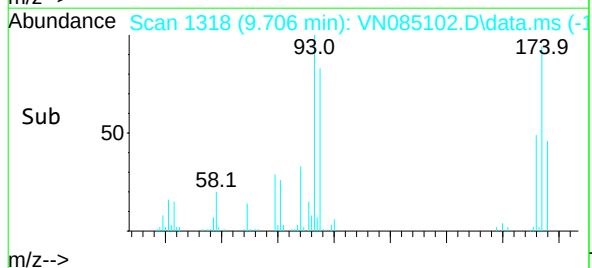
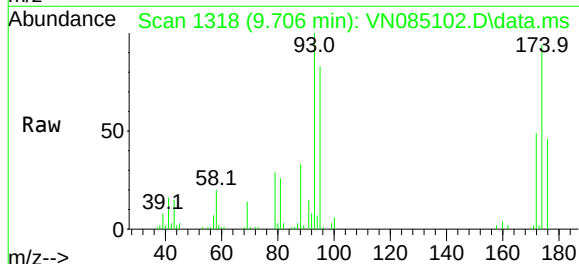
RT: 9.706 min Scan# 1318

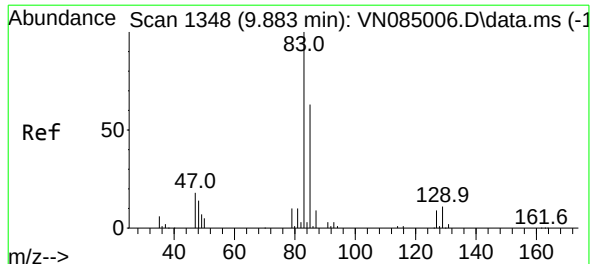
Delta R.T. -0.000 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

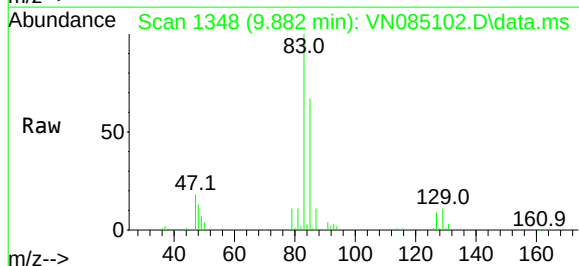
Tgt Ion:	93	Resp:	66500
Ion	Ratio	Lower	Upper
93	100		
95	82.8	66.2	99.4
174	95.3	74.9	112.3





#47
Bromodichloromethane
Concen: 52.862 ug/l
RT: 9.882 min Scan# 1348
Delta R.T. -0.000 min
Lab File: VN085102.D
Acq: 04 Dec 2024 18:25

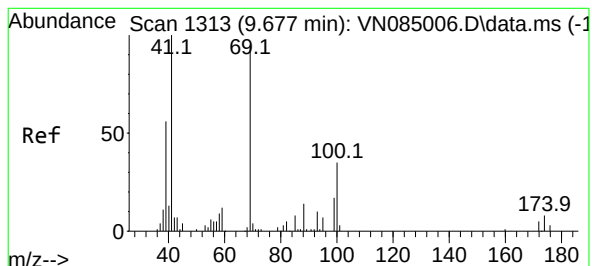
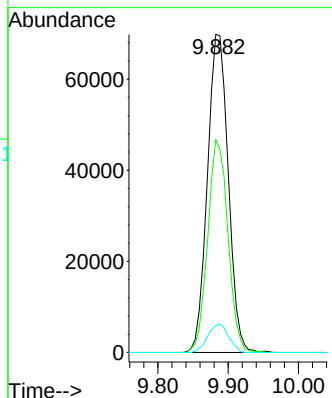
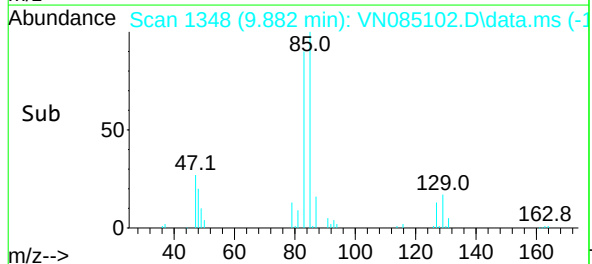
Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-RS-SW001-01MS



Tgt Ion: 83 Resp: 143787
Ion Ratio Lower Upper
83 100
85 66.9 50.5 75.7
127 8.5 7.1 10.7

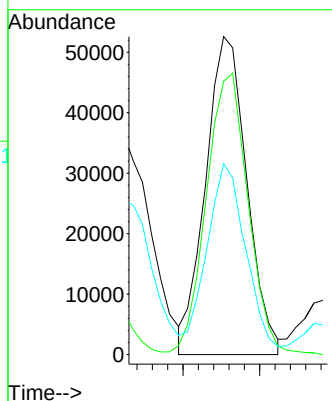
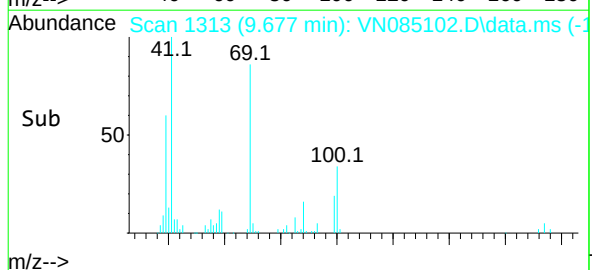
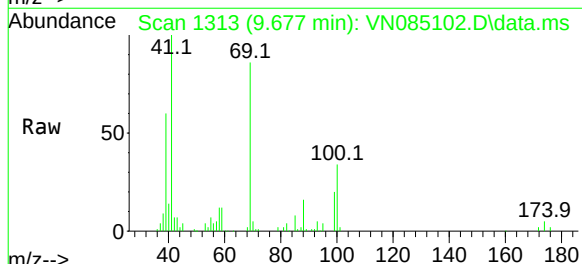
Manual Integrations
APPROVED

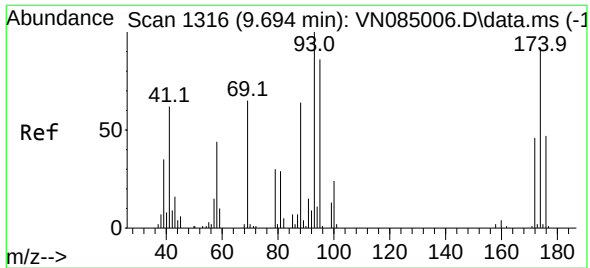
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#48
Methyl methacrylate
Concen: 59.050 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085102.D
Acq: 04 Dec 2024 18:25

Tgt Ion: 41 Resp: 98381
Ion Ratio Lower Upper
41 100
69 89.7 73.2 109.8
39 57.5 46.2 69.4





#49

1,4-Dioxane

Concen: 1273.861 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MS

Tgt Ion: 88 Resp: 36805

Ion Ratio Lower Upper

88 100

43 22.8 16.7 25.1

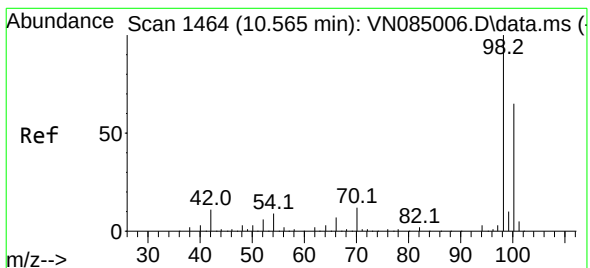
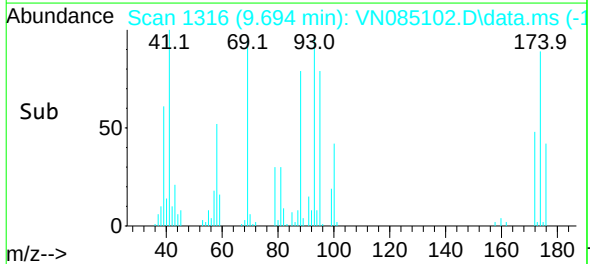
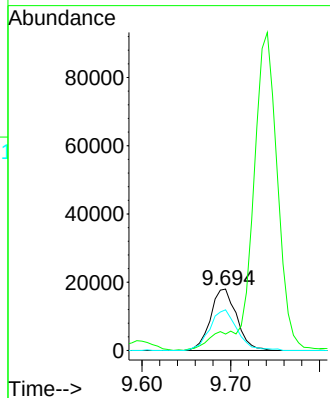
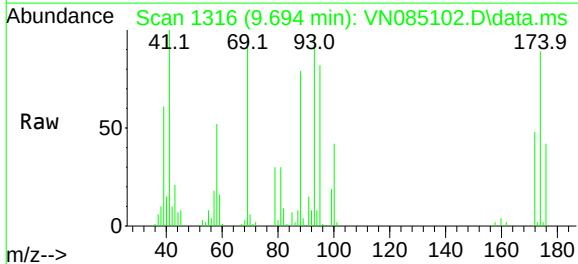
58 69.8 56.5 84.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#50

Toluene-d8

Concen: 52.601 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085102.D

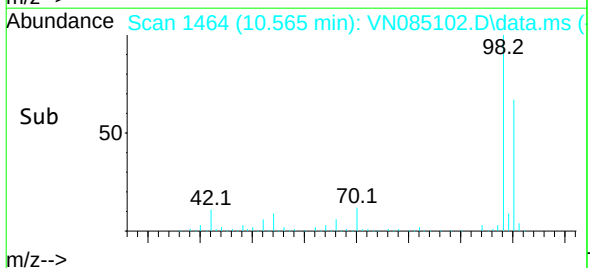
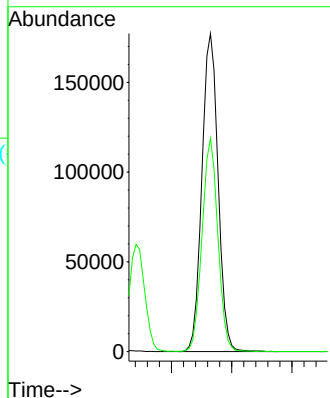
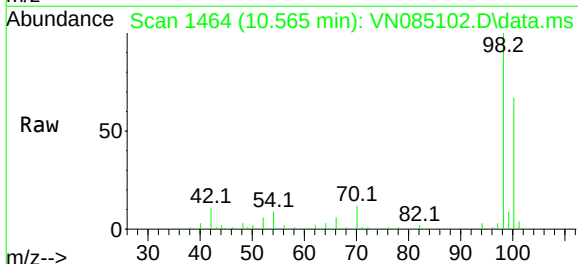
Acq: 04 Dec 2024 18:25

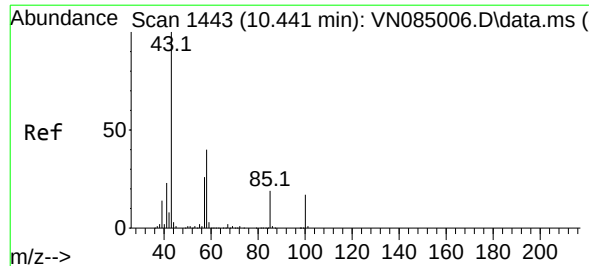
Tgt Ion: 98 Resp: 329967

Ion Ratio Lower Upper

98 100

100 65.5 52.5 78.7





#51

4-Methyl-2-Pentanone

Concen: 318.069 ug/l

RT: 10.441 min Scan# 14

Delta R.T. -0.000 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MS

Tgt Ion: 43 Resp: 650442

Ion Ratio Lower Upper

43 100

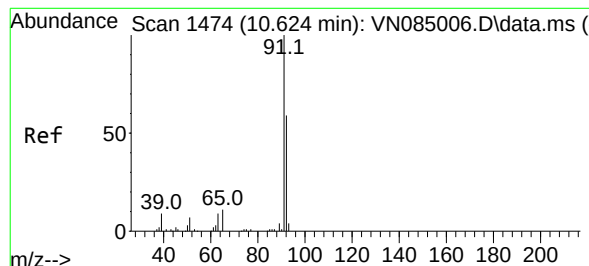
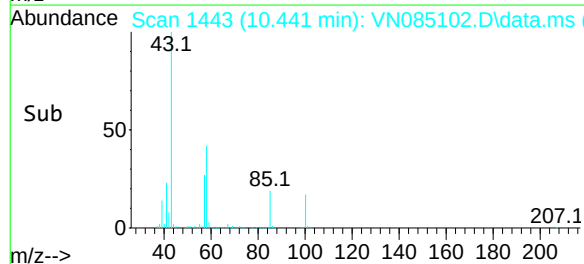
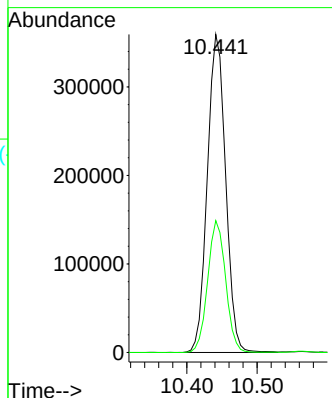
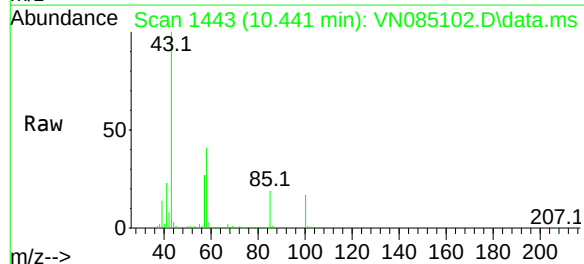
58 40.6 32.1 48.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#52

Toluene

Concen: 51.451 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. 0.006 min

Lab File: VN085102.D

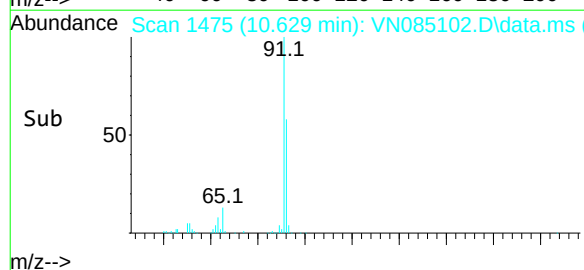
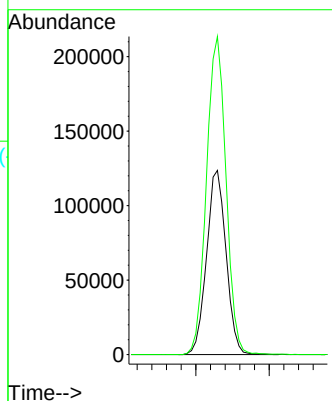
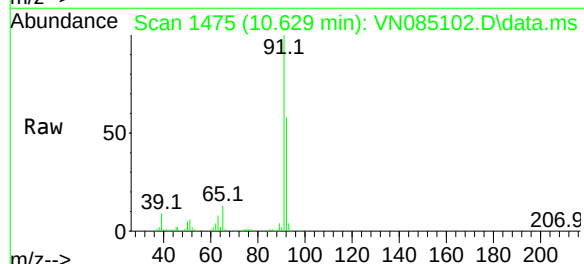
Acq: 04 Dec 2024 18:25

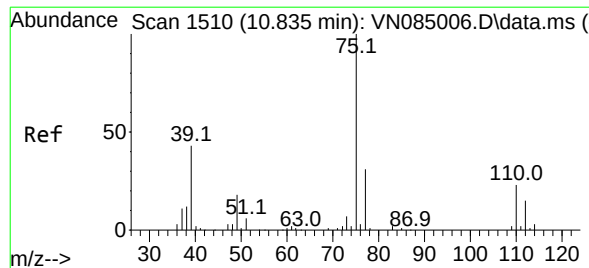
Tgt Ion: 92 Resp: 228403

Ion Ratio Lower Upper

92 100

91 173.1 136.7 205.1





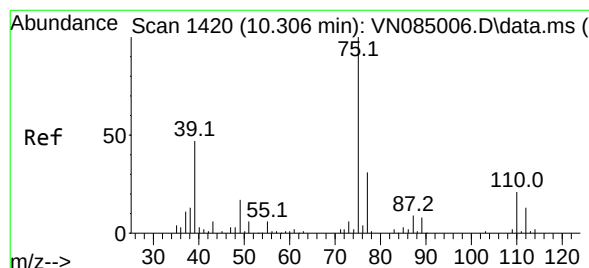
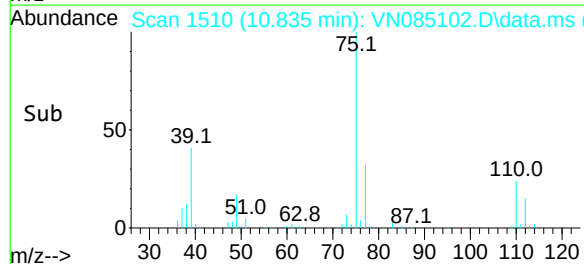
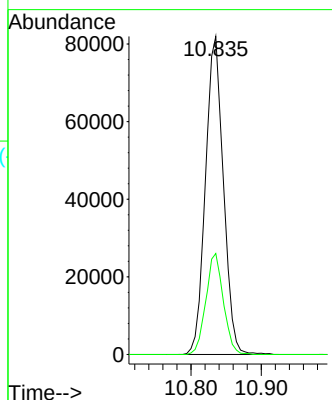
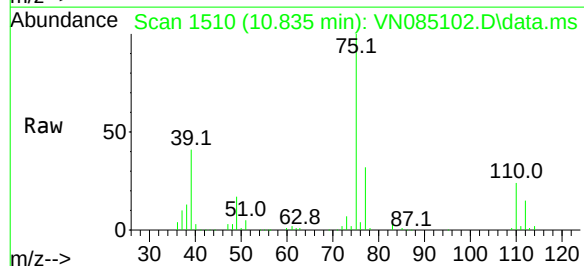
#53
t-1,3-Dichloropropene
Concen: 53.206 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VN085102.D
Acq: 04 Dec 2024 18:25

Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-RS-SW001-01MS

Tgt Ion: 75 Resp: 145092
Ion Ratio Lower Upper
75 100
77 31.8 25.0 37.4

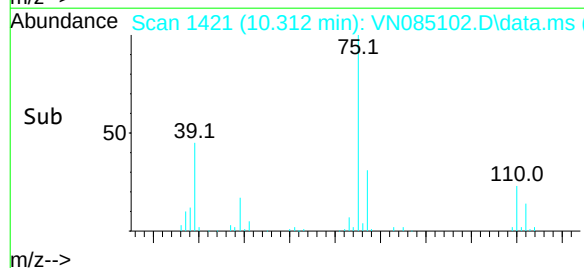
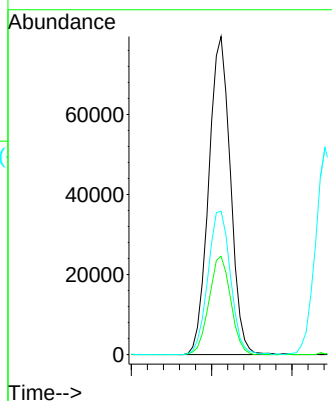
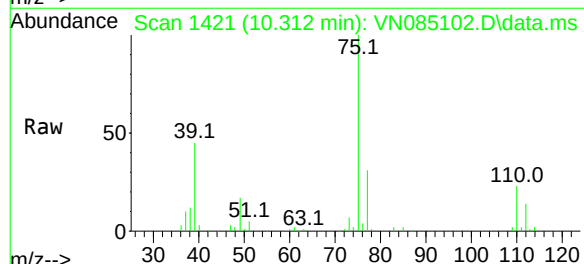
Manual Integrations
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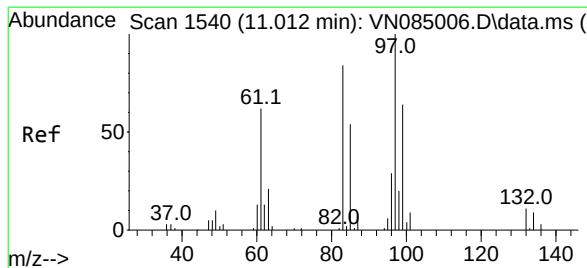
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#54
cis-1,3-Dichloropropene
Concen: 51.604 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN085102.D
Acq: 04 Dec 2024 18:25

Tgt Ion: 75 Resp: 149292
Ion Ratio Lower Upper
75 100
77 30.9 25.0 37.4
39 45.1 37.6 56.4





#55

1,1,2-Trichloroethane

Concen: 56.502 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.000 min

Lab File: VN085102.D

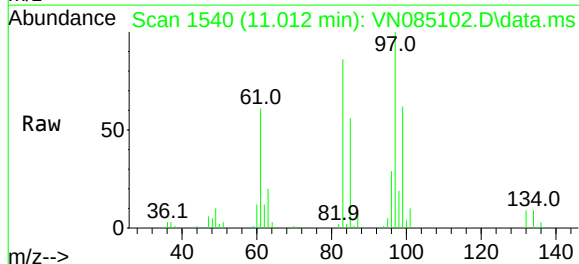
Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MS



Tgt Ion: 97 Resp: 93428

Ion Ratio Lower Upper

97 100

83 85.7 67.4 101.2

85 55.6 43.1 64.7

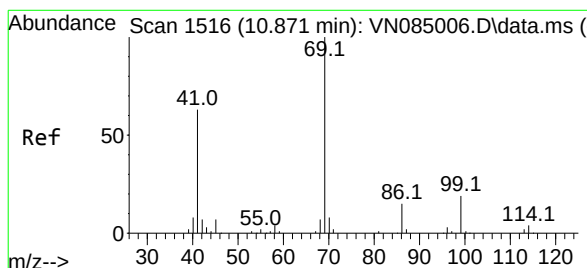
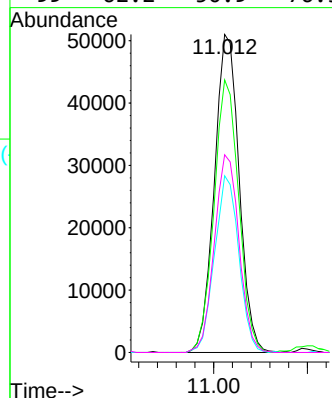
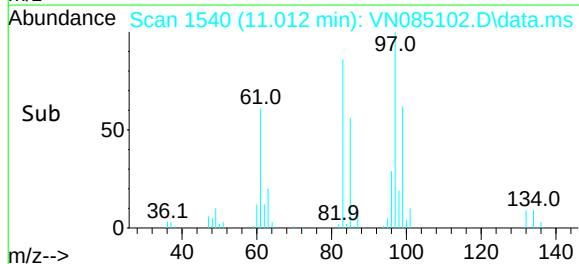
99 62.2 50.9 76.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#56

Ethyl methacrylate

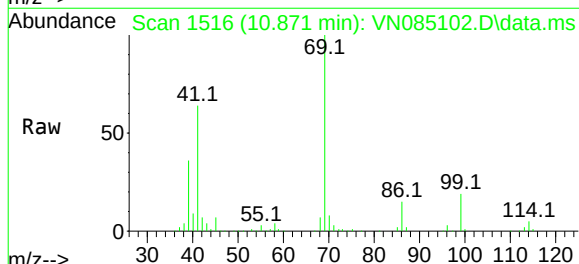
Concen: 62.688 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25



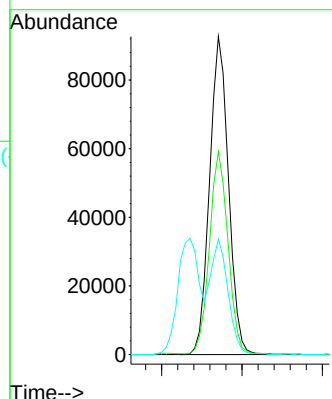
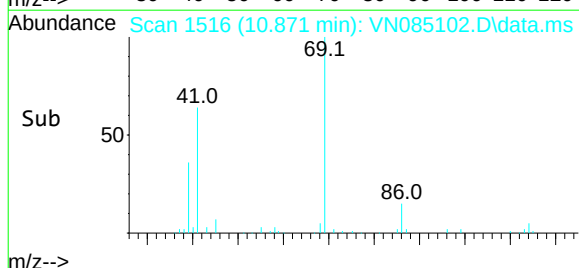
Tgt Ion: 69 Resp: 151468

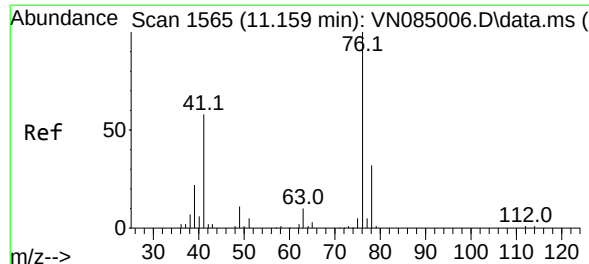
Ion Ratio Lower Upper

69 100

41 63.1 50.0 75.0

39 34.3 27.0 40.6





#57

1,3-Dichloropropane

Concen: 54.394 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. -0.000 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MS

Tgt Ion: 76 Resp: 158297

Ion Ratio Lower Upper

76 100

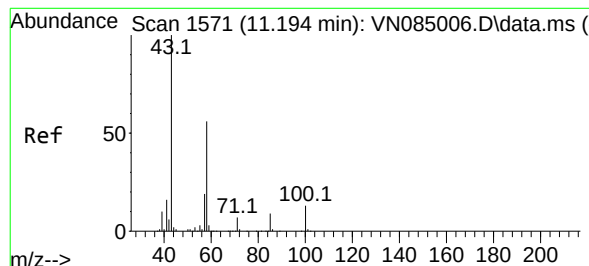
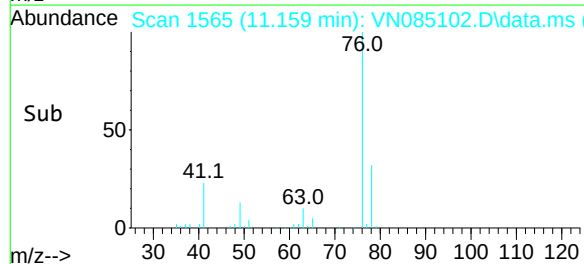
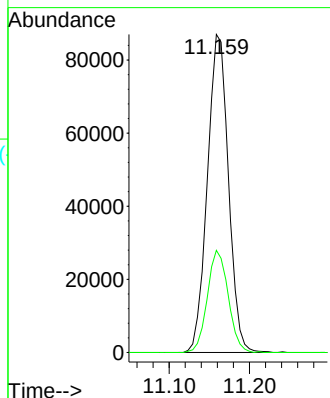
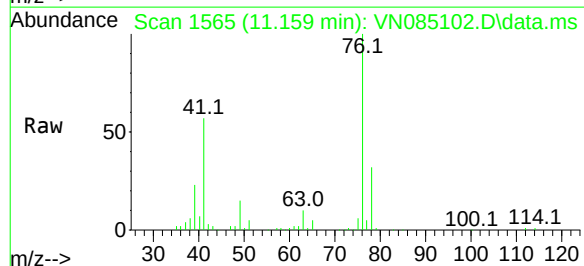
78 31.8 26.1 39.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#59

2-Hexanone

Concen: 314.575 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. -0.000 min

Lab File: VN085102.D

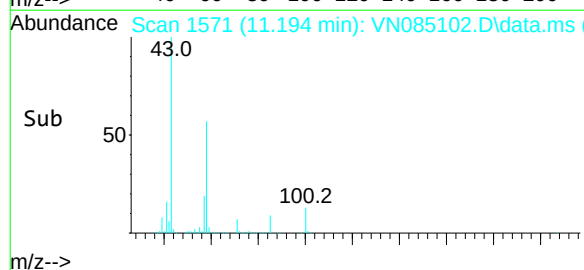
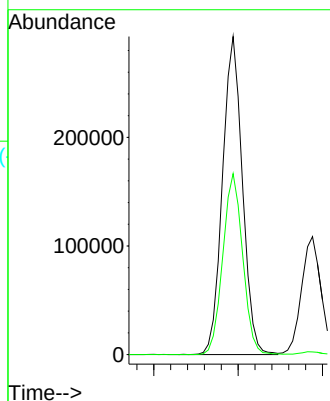
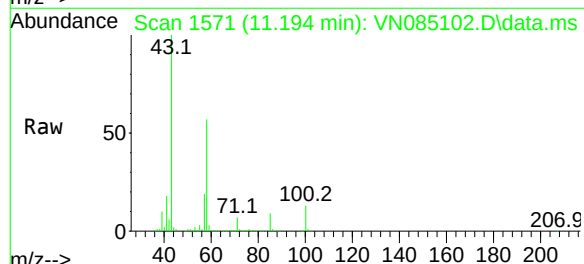
Acq: 04 Dec 2024 18:25

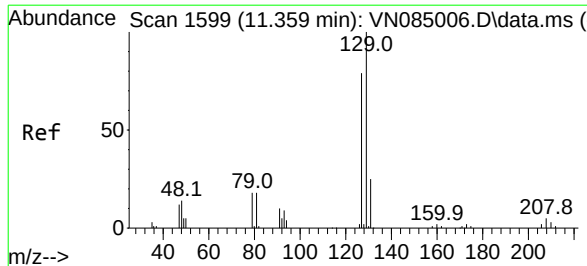
Tgt Ion: 43 Resp: 481124

Ion Ratio Lower Upper

43 100

58 56.6 28.3 85.0





#60

Dibromochloromethane

Concen: 55.475 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. -0.000 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MS

Tgt Ion:129 Resp: 112107

Ion Ratio Lower Upper

129 100

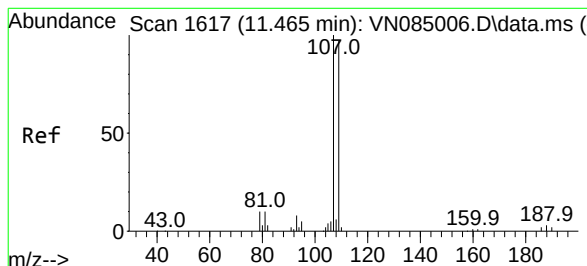
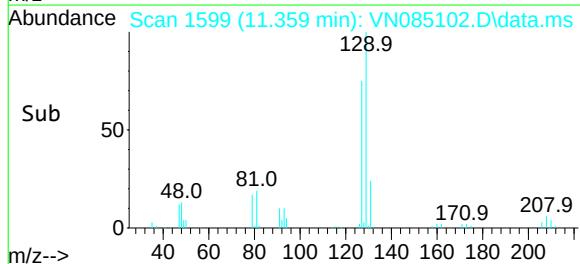
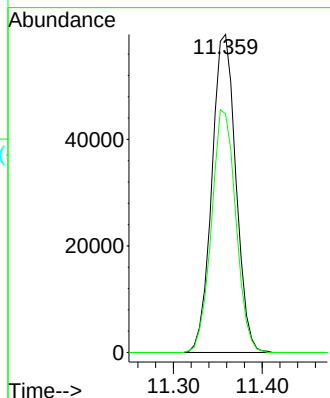
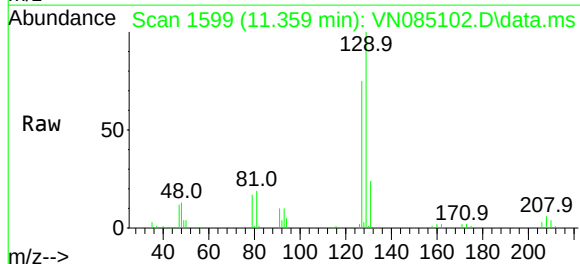
127 77.2 39.2 117.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#61

1,2-Dibromoethane

Concen: 54.076 ug/l

RT: 11.465 min Scan# 1617

Delta R.T. -0.000 min

Lab File: VN085102.D

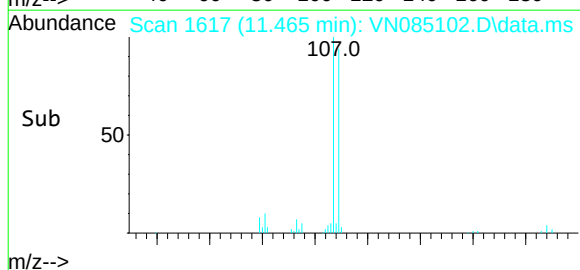
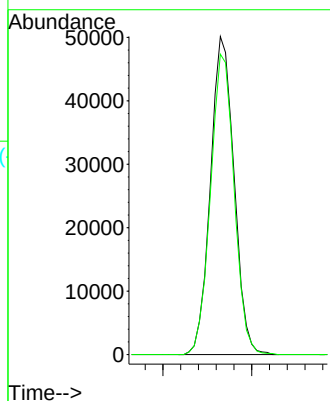
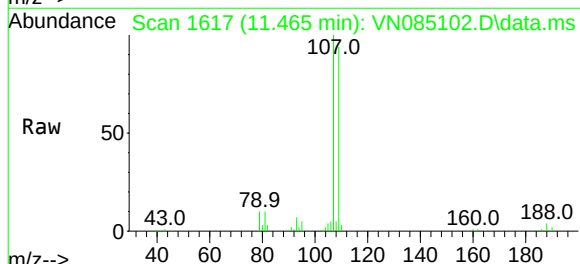
Acq: 04 Dec 2024 18:25

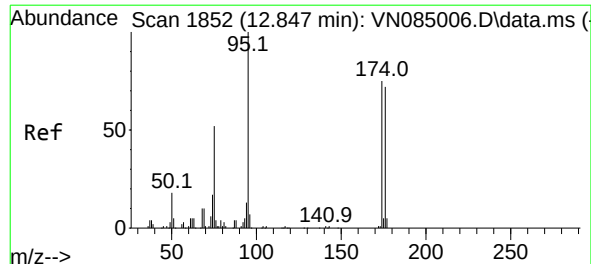
Tgt Ion:107 Resp: 92539

Ion Ratio Lower Upper

107 100

109 94.6 76.1 114.1





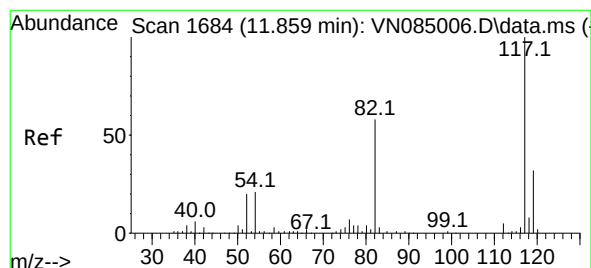
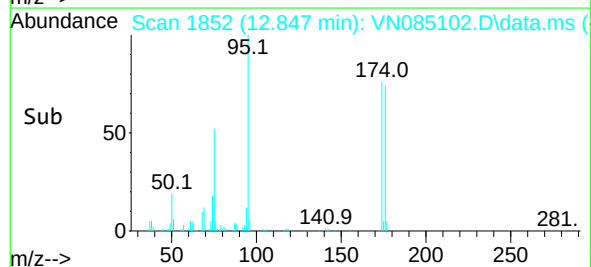
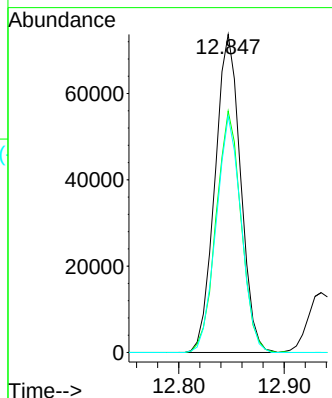
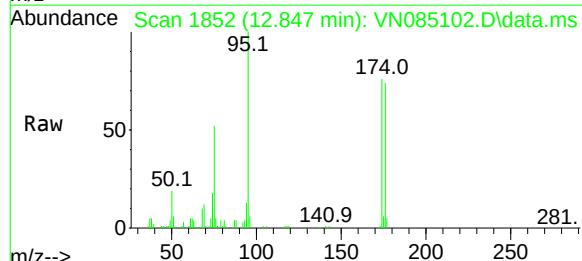
#62
4-Bromofluorobenzene
Concen: 53.030 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085102.D
Acq: 04 Dec 2024 18:25

Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-RS-SW001-01MS

Tgt Ion: 95 Resp: 124403
Ion Ratio Lower Upper
95 100
174 74.2 0.0 146.6
176 72.5 0.0 141.8

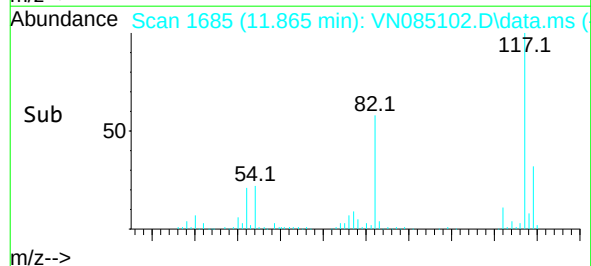
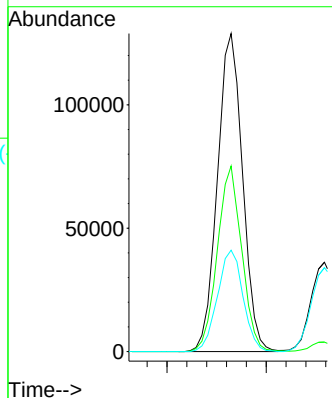
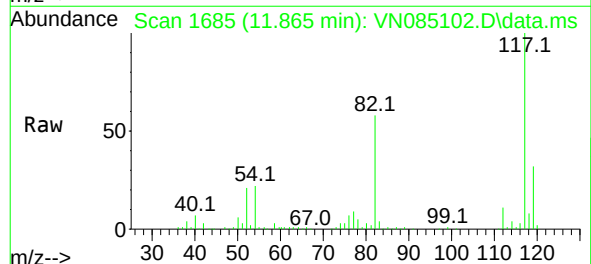
Manual Integrations
APPROVED

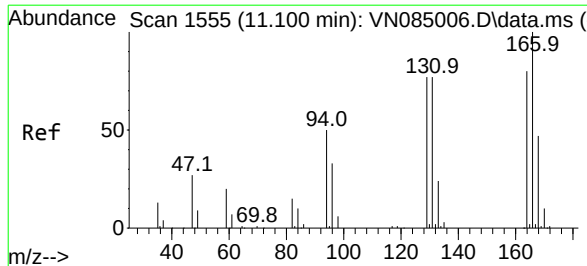
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VN085102.D
Acq: 04 Dec 2024 18:25

Tgt Ion:117 Resp: 227124
Ion Ratio Lower Upper
117 100
82 58.4 46.0 69.0
119 31.9 25.6 38.4





#64

Tetrachloroethene

Concen: 47.487 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN085102.D

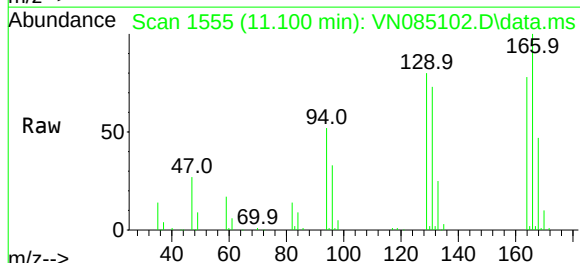
Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MS



Tgt Ion:164 Resp: 72675

Ion Ratio Lower Upper

164 100

166 127.8 100.6 151.0

129 102.7 77.7 116.5

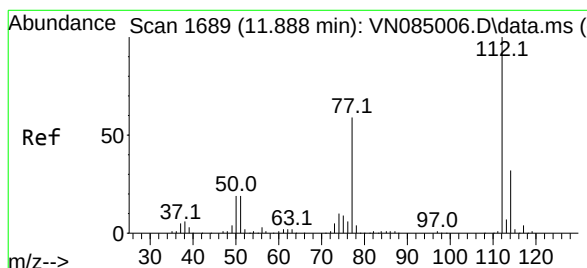
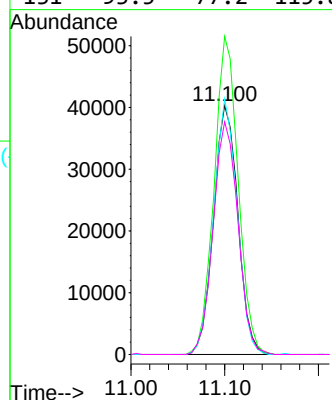
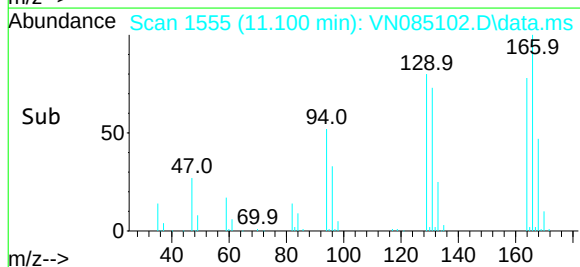
131 93.5 77.2 115.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#65

Chlorobenzene

Concen: 49.244 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. -0.000 min

Lab File: VN085102.D

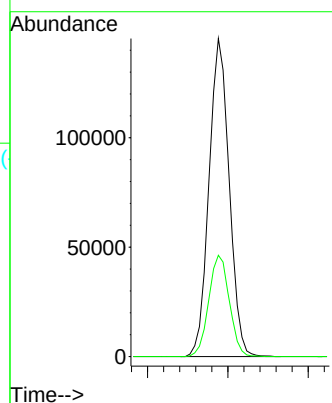
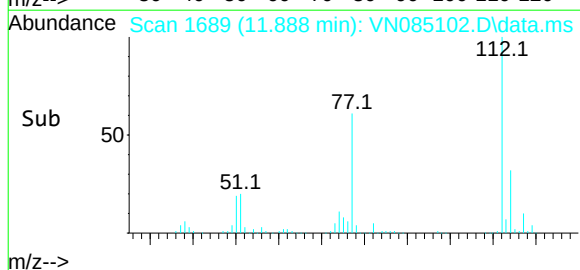
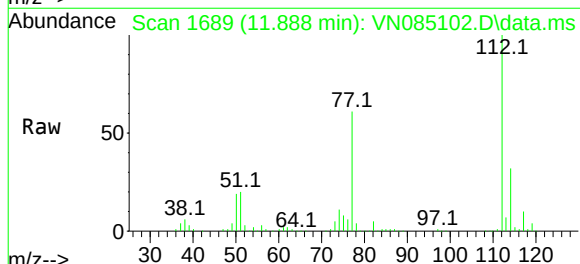
Acq: 04 Dec 2024 18:25

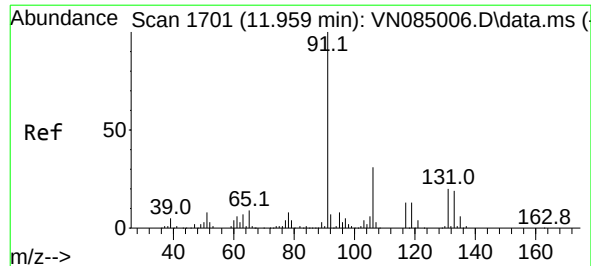
Tgt Ion:112 Resp: 253651

Ion Ratio Lower Upper

112 100

114 31.9 25.8 38.6





#66

1,1,1,2-Tetrachloroethane

Concen: 55.375 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

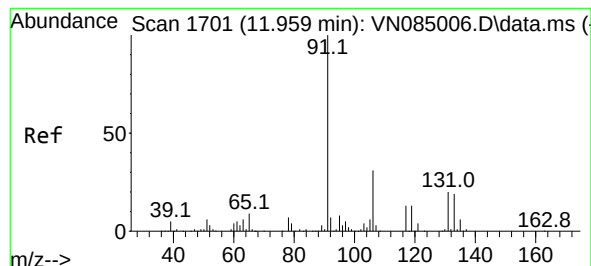
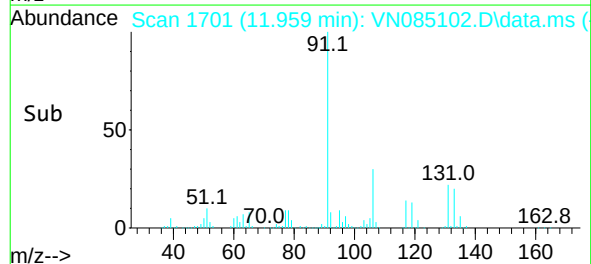
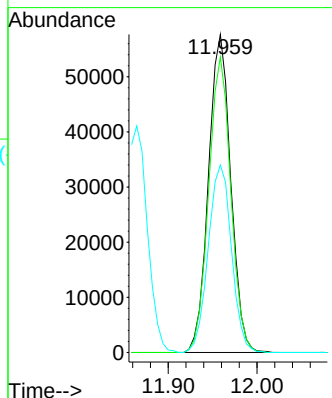
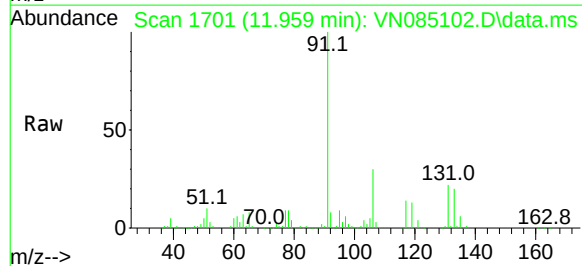
ClientSampleId :

UNIT-51-RS-SW001-01MS

Tgt Ion:	131	Resp:	100426
Ion Ratio	Lower	Upper	
131	100		
133	92.4	47.8	143.4
119	61.6	32.1	96.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#67

Ethyl Benzene

Concen: 53.910 ug/l

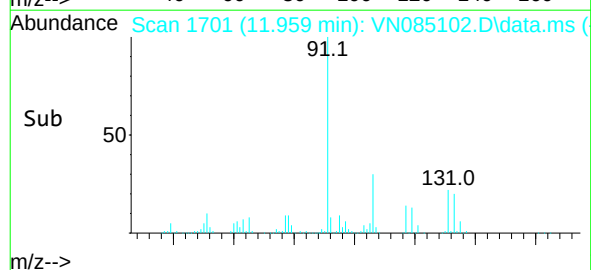
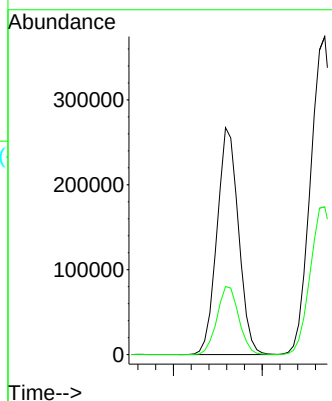
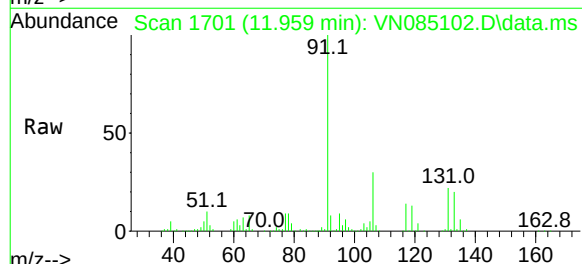
RT: 11.959 min Scan# 1701

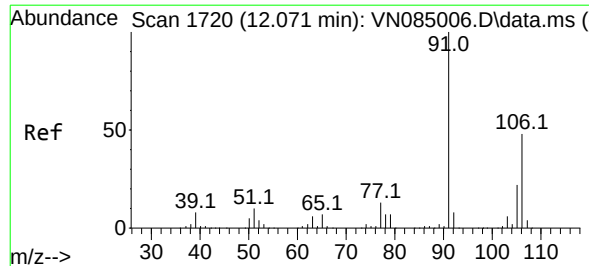
Delta R.T. -0.000 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

Tgt Ion:	91	Resp:	450515
Ion Ratio	Lower	Upper	
91	100		
106	30.0	24.7	37.1





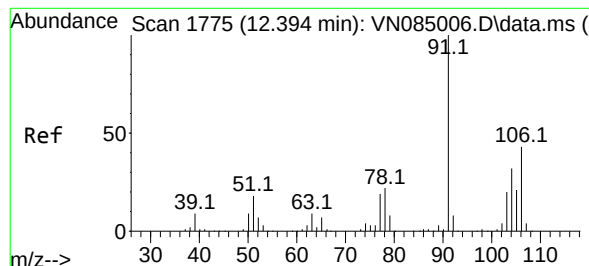
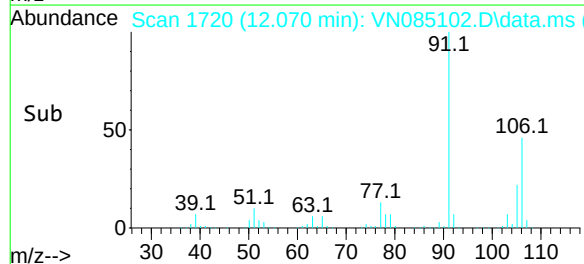
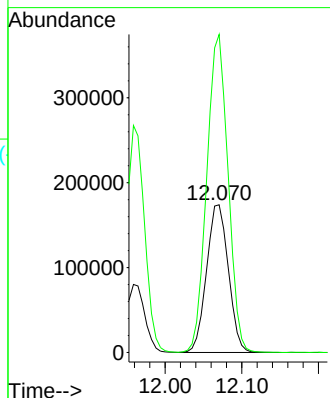
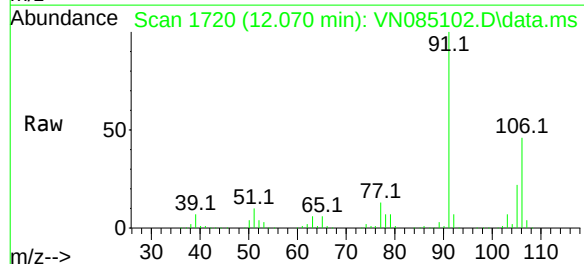
#68
m/p-Xylenes
Concen: 108.147 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN085102.D
Acq: 04 Dec 2024 18:25

Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-RS-SW001-01MS

Tgt Ion:106 Resp: 344075
Ion Ratio Lower Upper
106 100
91 209.9 168.0 252.0

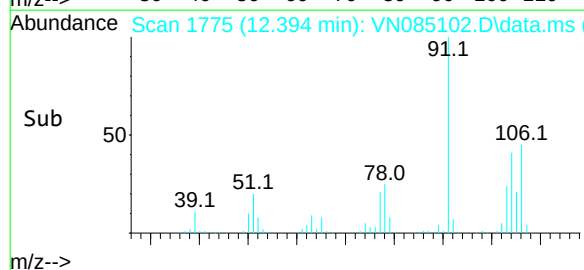
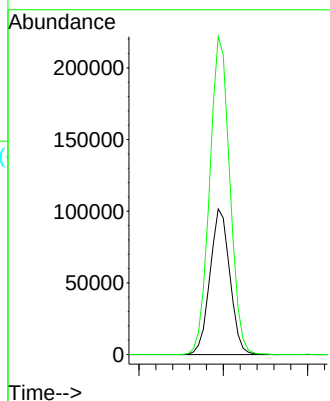
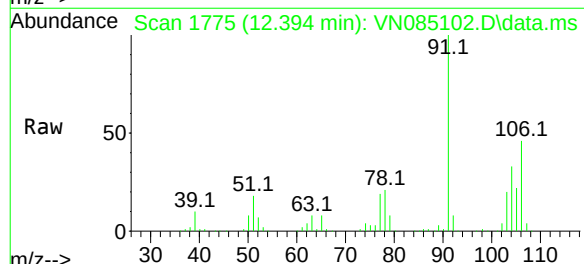
Manual Integrations
APPROVED

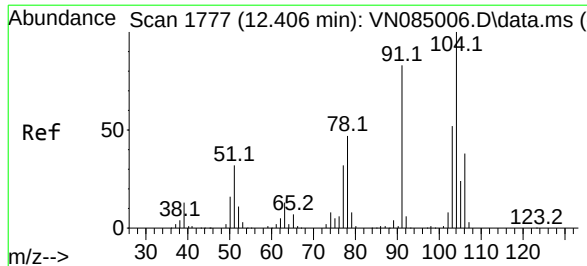
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#69
o-Xylene
Concen: 54.838 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN085102.D
Acq: 04 Dec 2024 18:25

Tgt Ion:106 Resp: 165964
Ion Ratio Lower Upper
106 100
91 222.6 110.7 331.9





#70

Styrene

Concen: 57.898 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.000 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MS

Tgt Ion:104 Resp: 291395

Ion Ratio Lower Upper

104 100

78 51.9 42.3 63.5

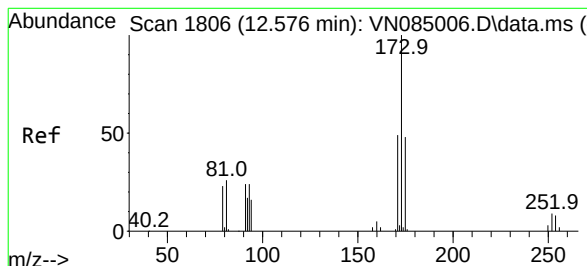
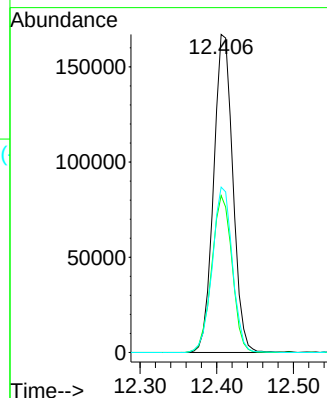
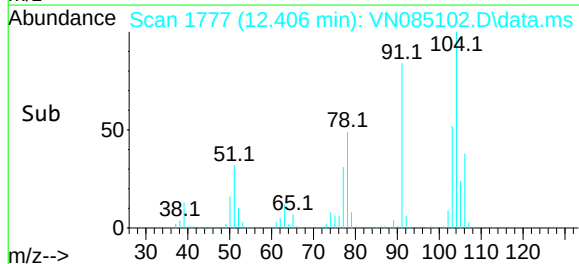
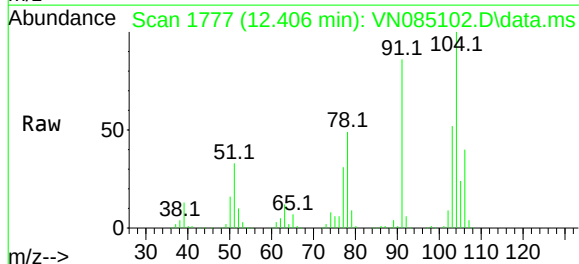
103 54.4 44.2 66.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#71

Bromoform

Concen: 57.690 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. -0.000 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

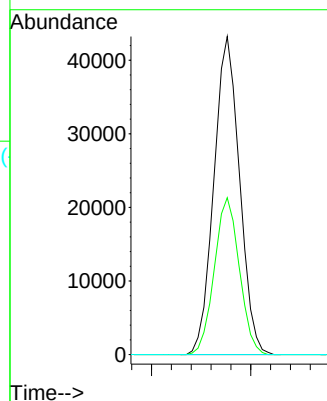
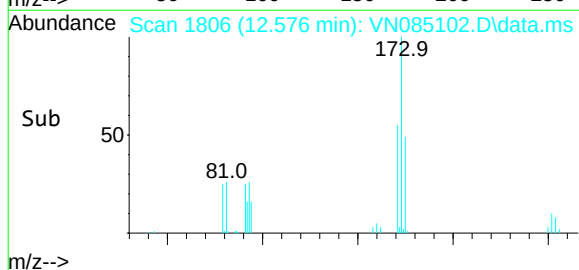
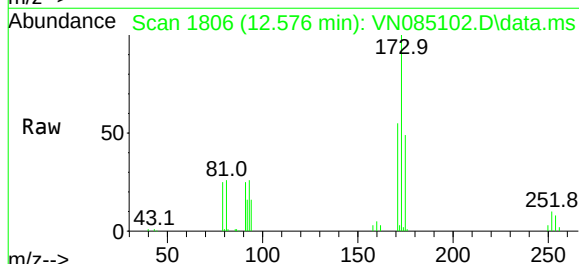
Tgt Ion:173 Resp: 77662

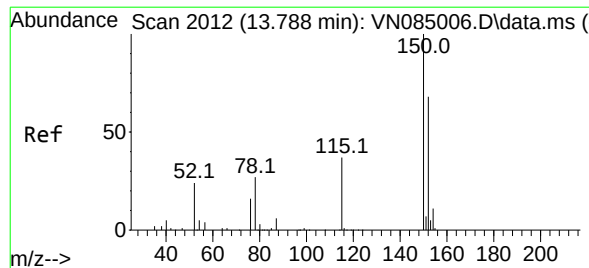
Ion Ratio Lower Upper

173 100

175 48.0 23.8 71.2

254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MS

Tgt Ion:152 Resp: 114296

Ion Ratio Lower Upper

152 100

115 63.0 31.7 95.1

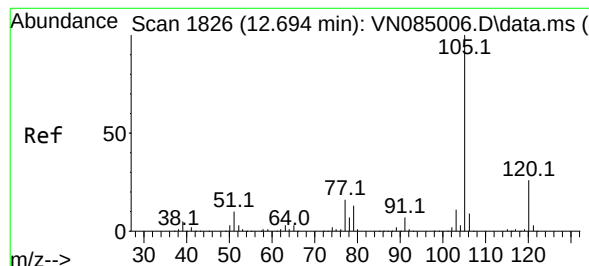
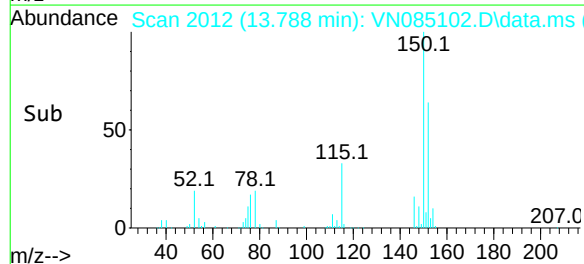
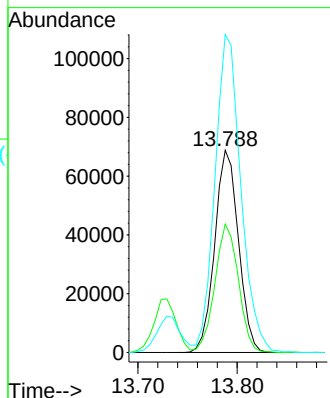
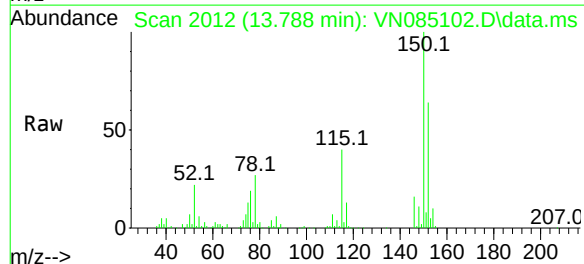
150 172.4 0.0 351.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#73

Isopropylbenzene

Concen: 53.578 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. -0.000 min

Lab File: VN085102.D

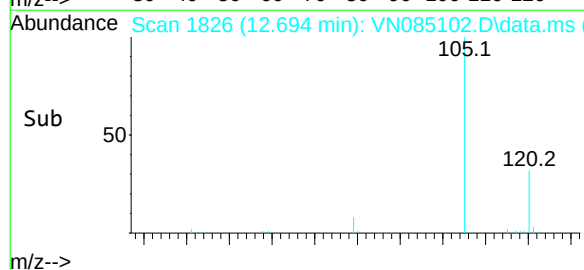
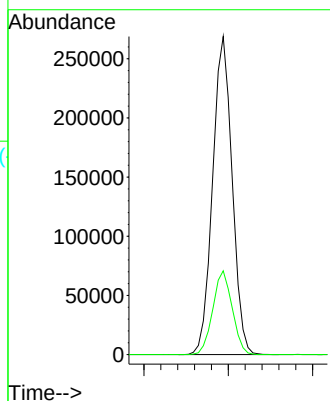
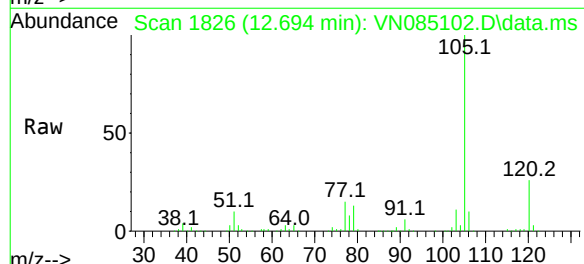
Acq: 04 Dec 2024 18:25

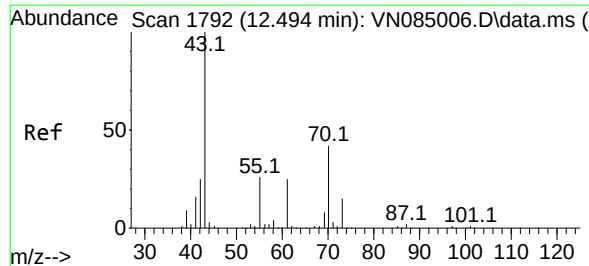
Tgt Ion:105 Resp: 432013

Ion Ratio Lower Upper

105 100

120 26.1 13.0 39.0





#74

N-ethyl acetate

Concen: 56.335 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. -0.000 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MS

Tgt Ion: 43 Resp: 187182

Ion Ratio Lower Upper

43 100

70 44.1 34.6 51.8

55 26.2 20.5 30.7

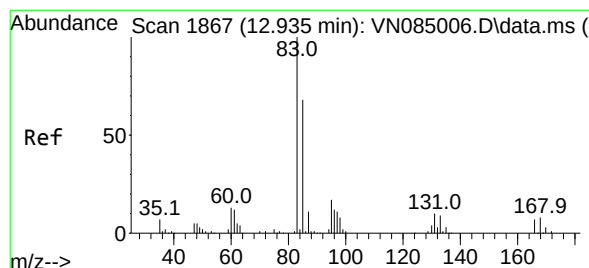
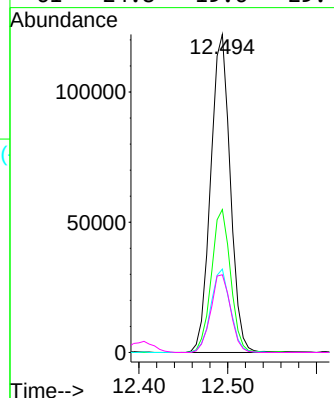
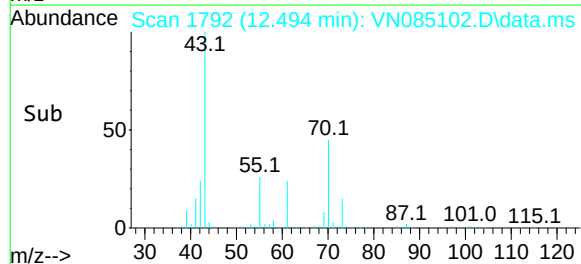
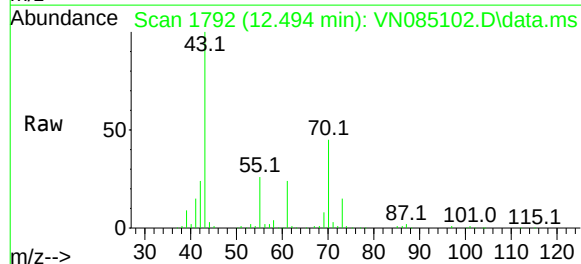
61 24.8 19.6 29.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#75

1,1,2,2-Tetrachloroethane

Concen: 50.451 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. -0.000 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

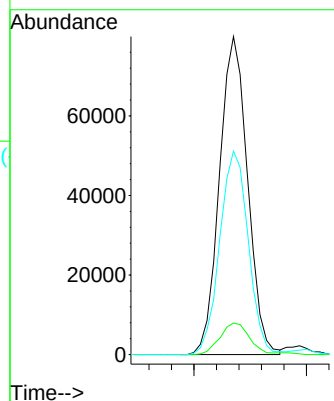
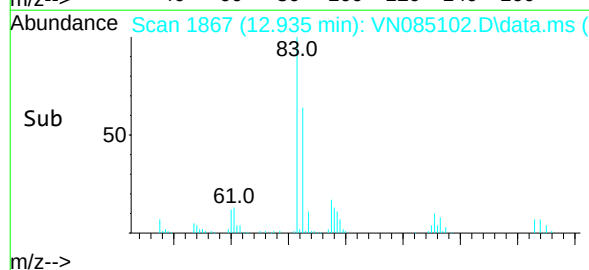
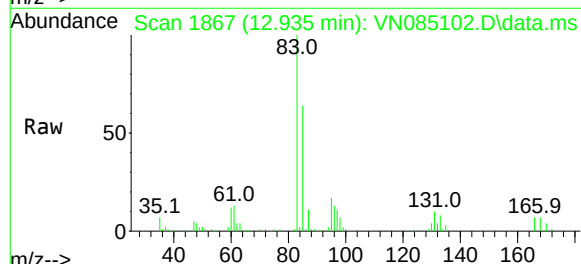
Tgt Ion: 83 Resp: 138912

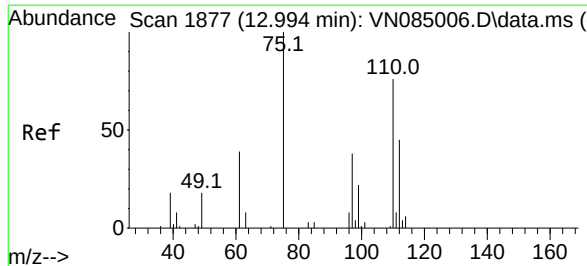
Ion Ratio Lower Upper

83 100

131 10.7 5.1 15.4

85 65.1 32.1 96.3





#76

1,2,3-Trichloropropane

Concen: 52.752 ug/l m

RT: 12.994 min Scan# 1877

Delta R.T. -0.000 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MS

Tgt Ion: 75 Resp: 109670

Ion Ratio Lower Upper

75 100

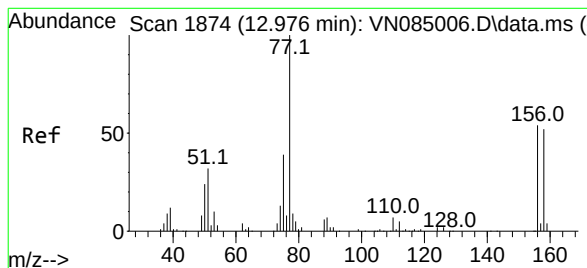
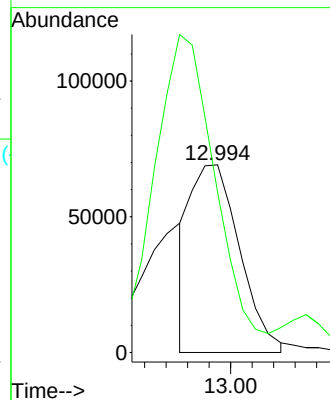
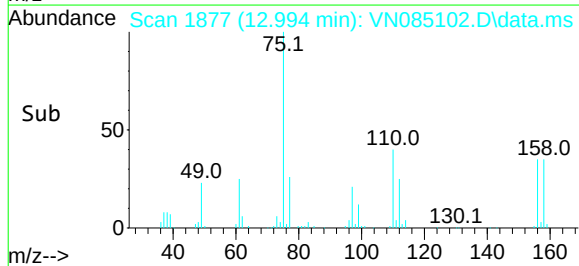
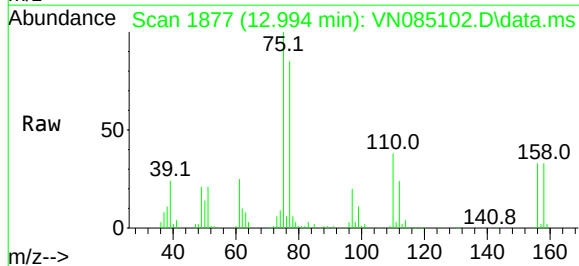
77 213.0 109.1 327.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#77

Bromobenzene

Concen: 48.729 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. -0.000 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

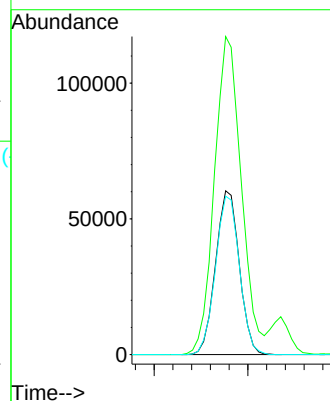
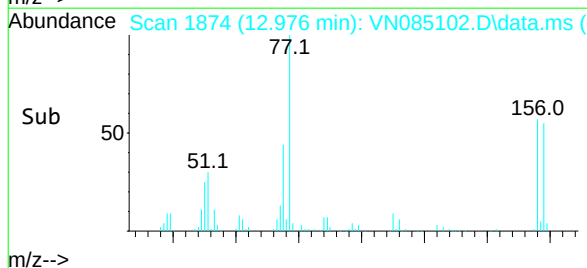
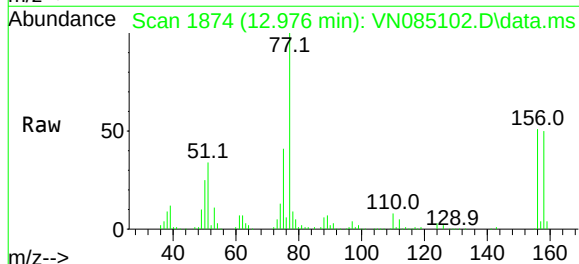
Tgt Ion:156 Resp: 105735

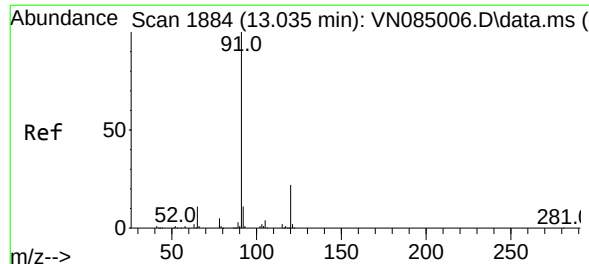
Ion Ratio Lower Upper

156 100

77 220.9 107.2 321.6

158 97.9 48.5 145.6





#78

n-propylbenzene

Concen: 54.429 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. -0.000 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MS

Tgt Ion: 91 Resp: 506198

Ion Ratio Lower Upper

91 100

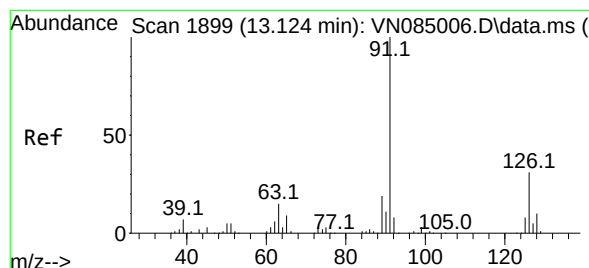
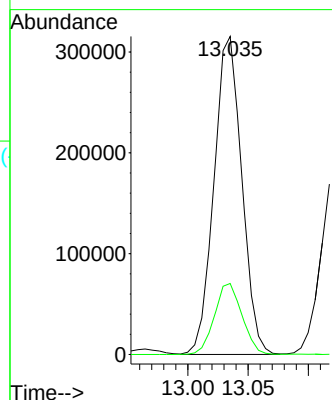
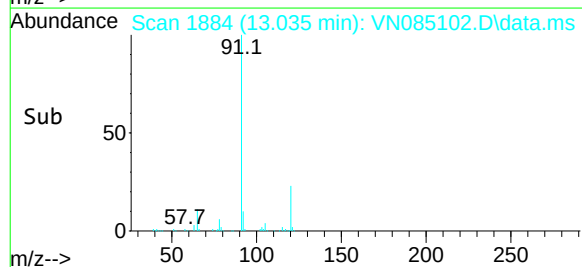
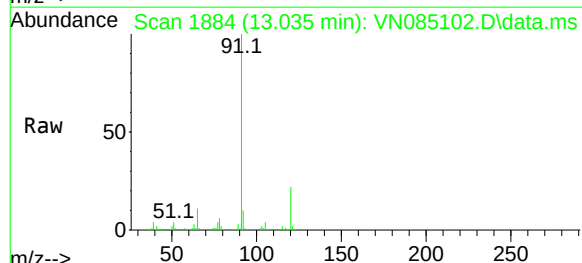
120 22.1 11.3 33.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#79

2-Chlorotoluene

Concen: 51.168 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN085102.D

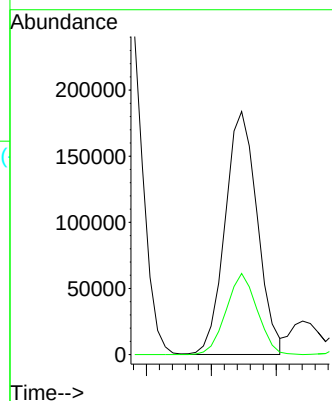
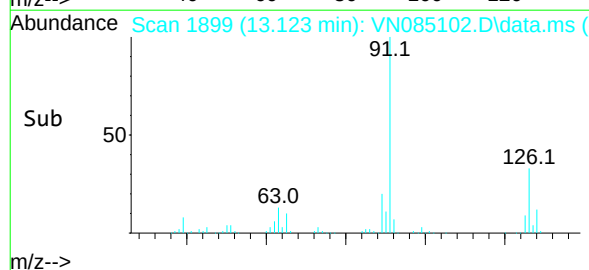
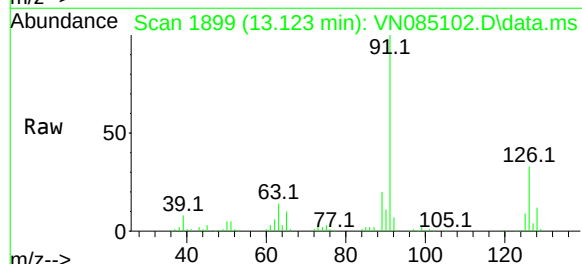
Acq: 04 Dec 2024 18:25

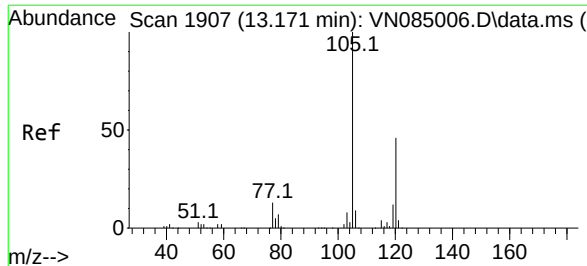
Tgt Ion: 91 Resp: 317665

Ion Ratio Lower Upper

91 100

126 32.0 16.1 48.3





#80

1,3,5-Trimethylbenzene

Concen: 55.379 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MS

Tgt Ion:105 Resp: 374700

Ion Ratio Lower Upper

105 100

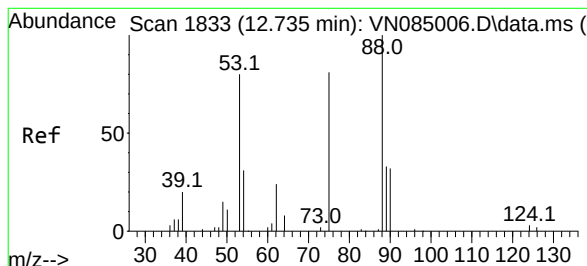
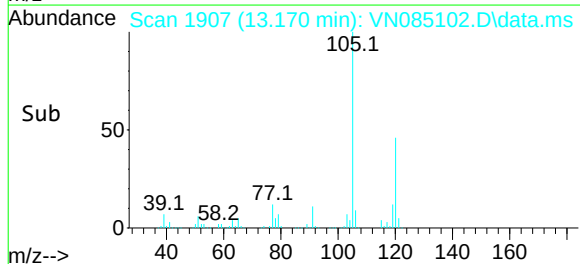
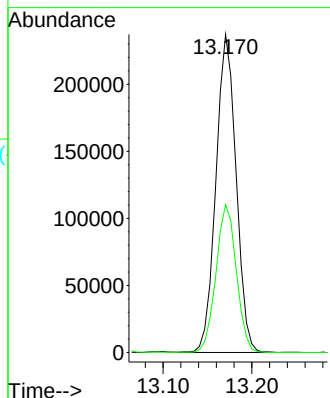
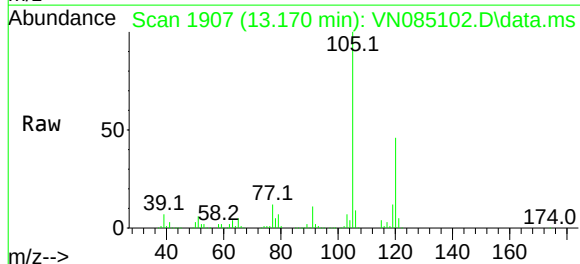
120 46.9 23.6 71.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#81

trans-1,4-Dichloro-2-butene

Concen: 57.594 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. -0.000 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

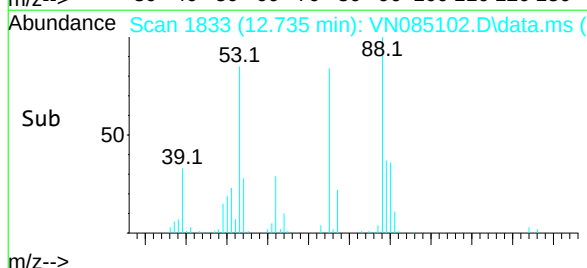
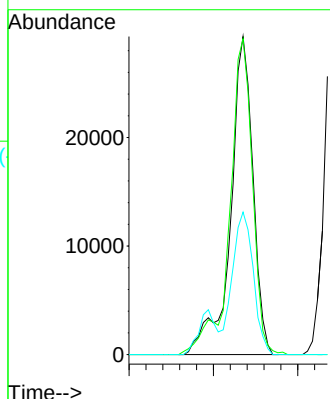
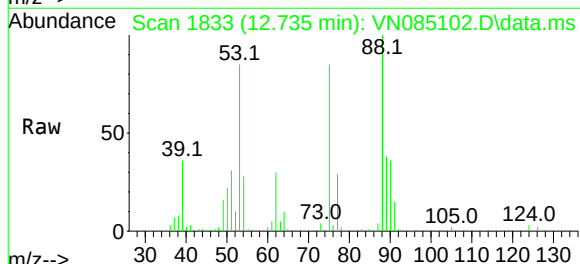
Tgt Ion: 75 Resp: 54239

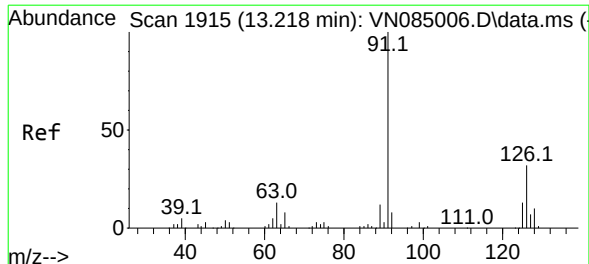
Ion Ratio Lower Upper

75 100

53 100.4 78.2 117.4

89 42.3 37.9 56.9





#82

4-Chlorotoluene

Concen: 49.628 ug/l

RT: 13.217 min Scan# 1915

Delta R.T. -0.000 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MS

Tgt Ion: 91 Resp: 320743

Ion Ratio Lower Upper

91 100

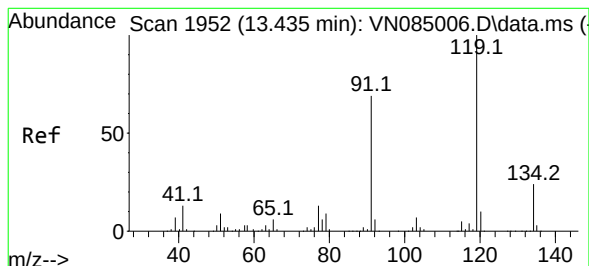
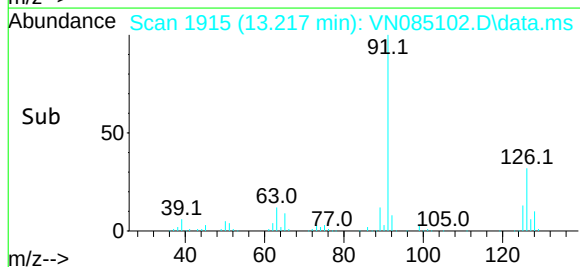
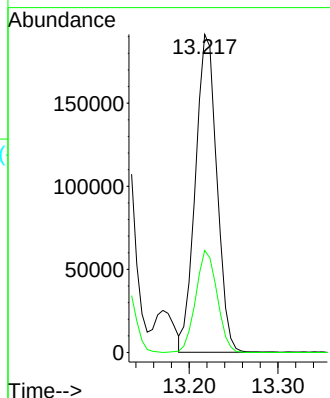
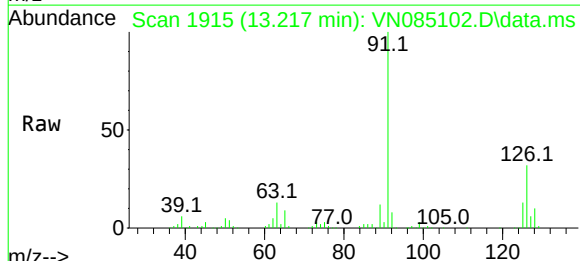
126 32.0 16.1 48.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#83

tert-Butylbenzene

Concen: 53.484 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

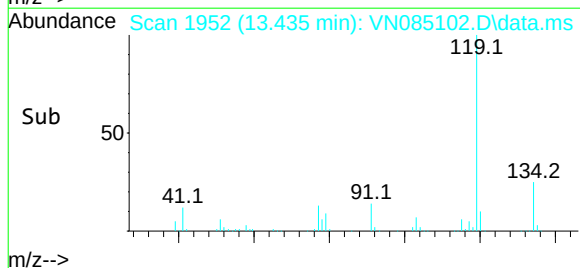
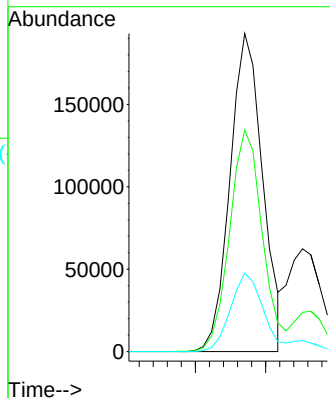
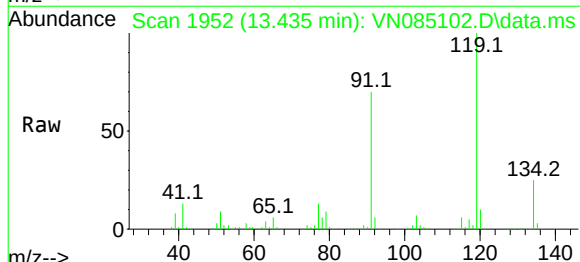
Tgt Ion:119 Resp: 311362

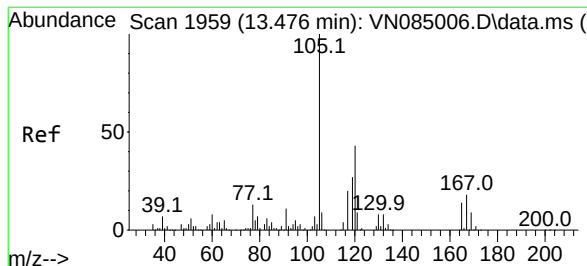
Ion Ratio Lower Upper

119 100

91 70.2 35.1 105.5

134 24.5 12.1 36.3





#84

1,2,4-Trimethylbenzene

Concen: 53.609 ug/l

RT: 13.482 min Scan# 19

Delta R.T. 0.006 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MS

Tgt Ion:105 Resp: 373367

Ion Ratio Lower Upper

105 100

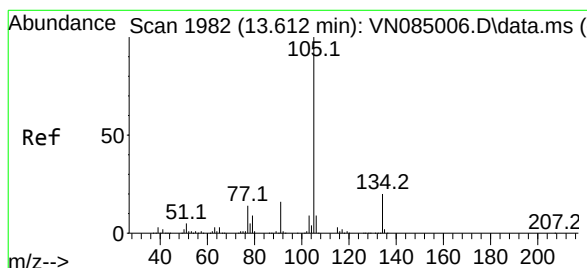
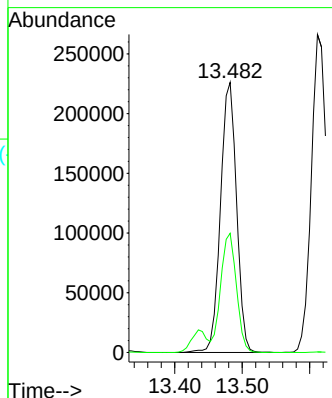
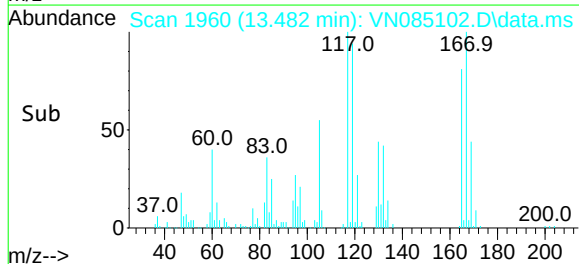
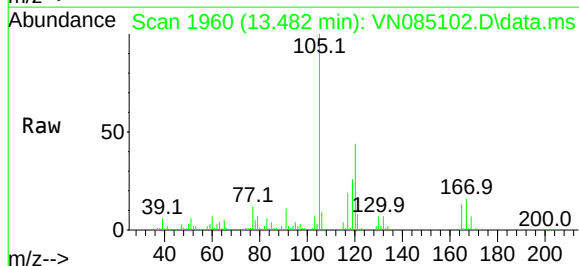
120 43.2 21.8 65.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#85

sec-Butylbenzene

Concen: 54.276 ug/l

RT: 13.612 min Scan# 1982

Delta R.T. -0.000 min

Lab File: VN085102.D

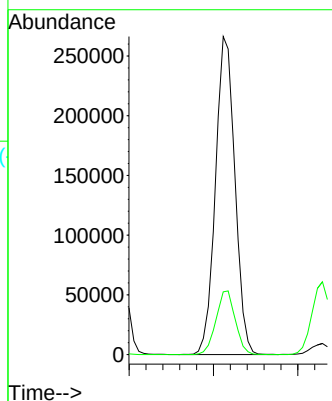
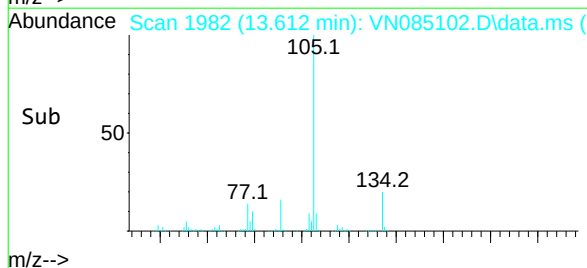
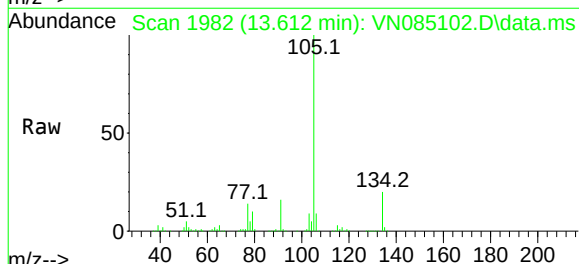
Acq: 04 Dec 2024 18:25

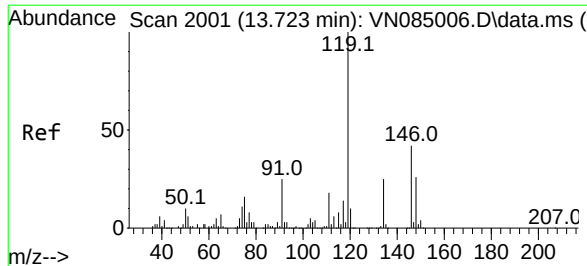
Tgt Ion:105 Resp: 426840

Ion Ratio Lower Upper

105 100

134 19.9 9.8 29.3





#86

p-Isopropyltoluene

Concen: 56.110 ug/l

RT: 13.729 min Scan# 2001

Delta R.T. 0.006 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

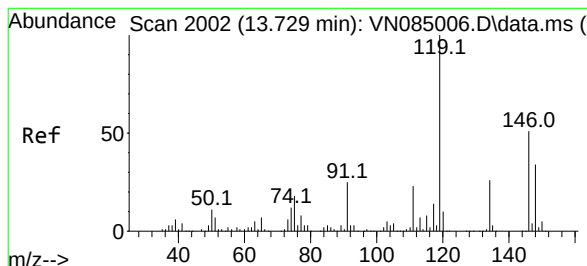
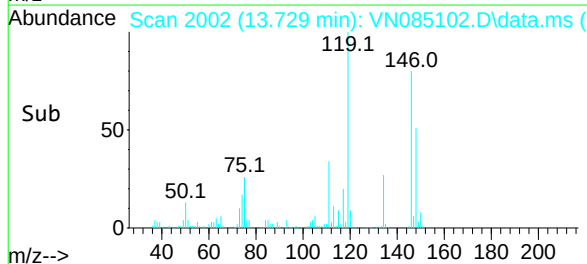
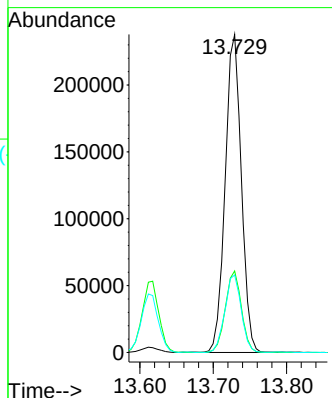
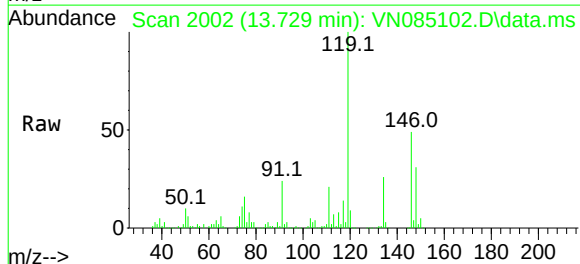
Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MS

Tgt Ion:	119	Resp:	364257
Ion Ratio	Lower	Upper	
119	100		
134	25.5	13.0	39.0
91	24.7	12.8	38.4

Manual Integrations
APPROVEDReviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024

#87

1,3-Dichlorobenzene

Concen: 45.835 ug/l

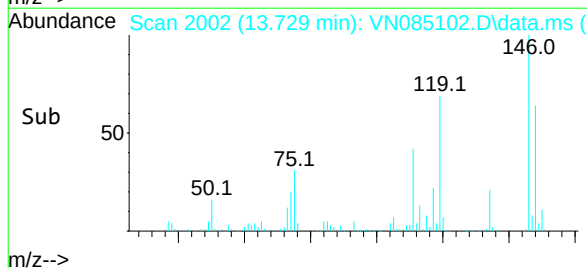
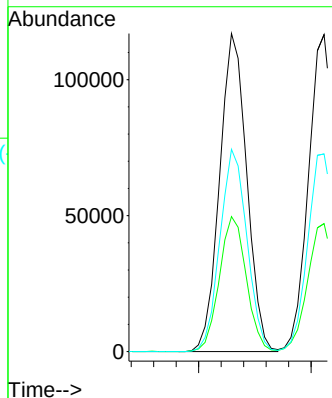
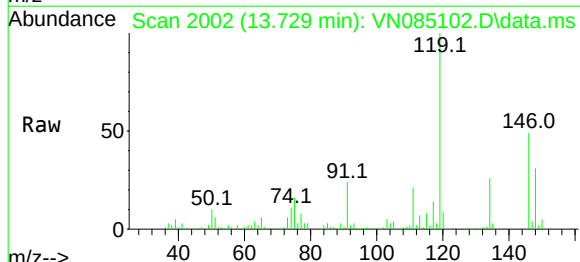
RT: 13.729 min Scan# 2002

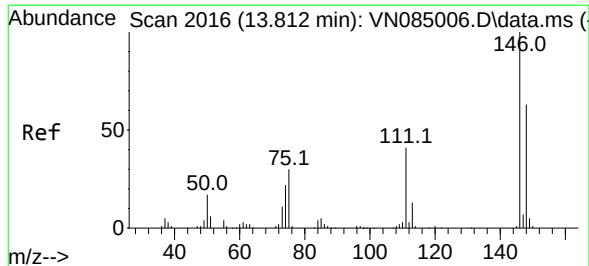
Delta R.T. -0.000 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

Tgt Ion:	146	Resp:	196167
Ion Ratio	Lower	Upper	
146	100		
111	42.1	21.6	65.0
148	63.3	32.2	96.6





#88

1,4-Dichlorobenzene

Concen: 44.771 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN085102.D

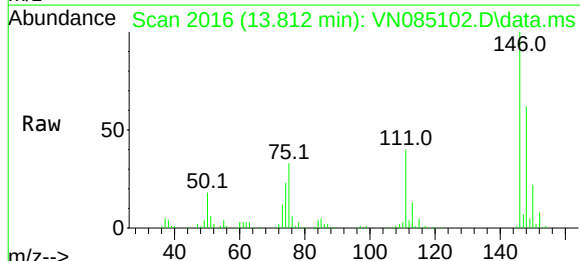
Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MS

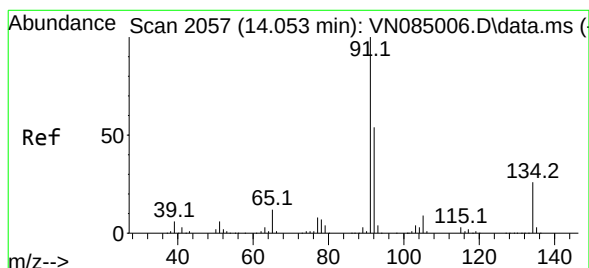
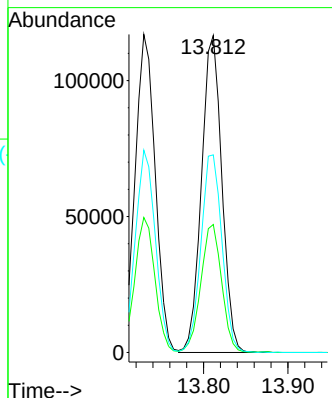
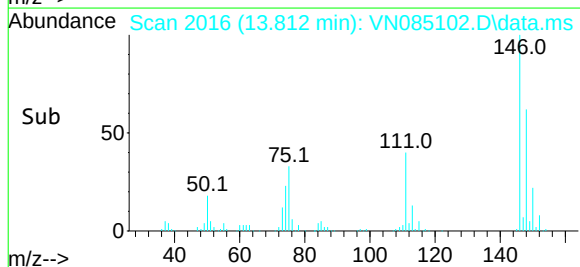


Tgt Ion:	146	Resp:	195543
Ion	Ratio	Lower	Upper
146	100		
111	41.1	20.9	62.8
148	64.5	31.3	93.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#89

n-Butylbenzene

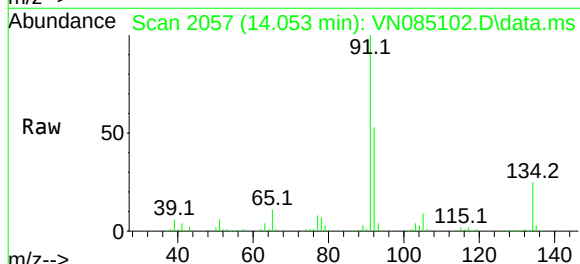
Concen: 48.908 ug/l

RT: 14.053 min Scan# 2057

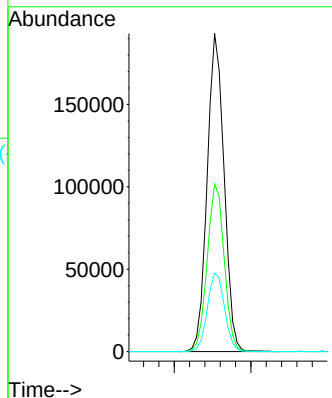
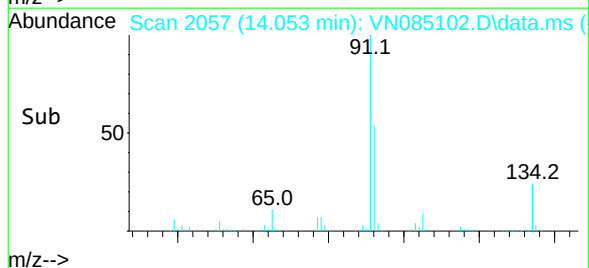
Delta R.T. -0.000 min

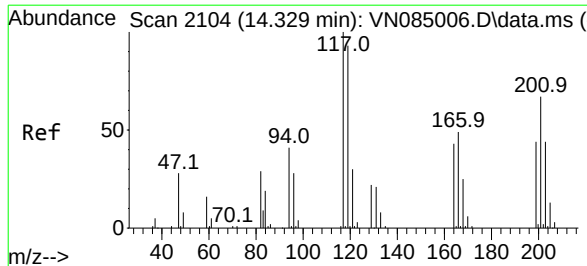
Lab File: VN085102.D

Acq: 04 Dec 2024 18:25



Tgt Ion:	91	Resp:	295269
Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.8	80.3
134	25.1	12.8	38.4





#90

Hexachloroethane

Concen: 50.014 ug/l

RT: 14.335 min Scan# 2104

Delta R.T. 0.006 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MS

Tgt Ion:117 Resp: 70773

Ion Ratio Lower Upper

117 100

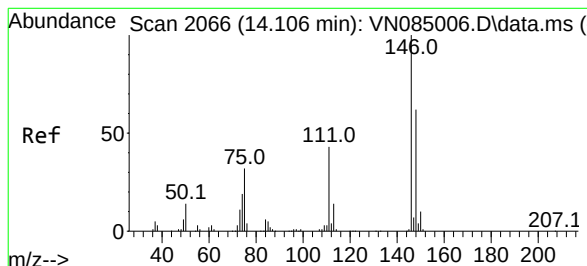
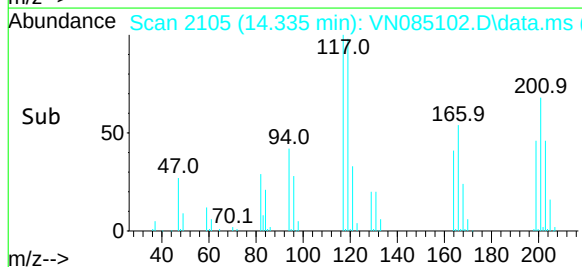
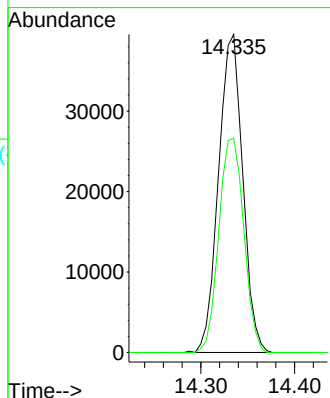
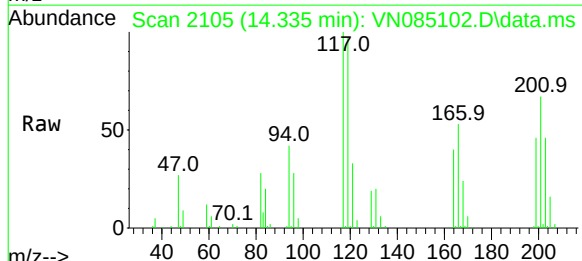
201 69.5 35.2 105.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#91

1,2-Dichlorobenzene

Concen: 46.211 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN085102.D

Acq: 04 Dec 2024 18:25

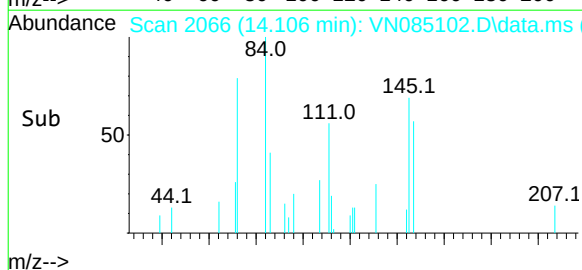
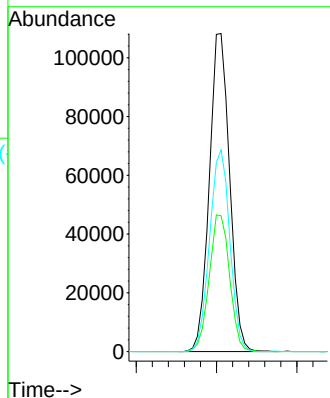
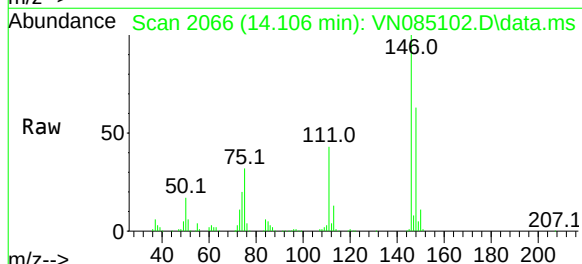
Tgt Ion:146 Resp: 189519

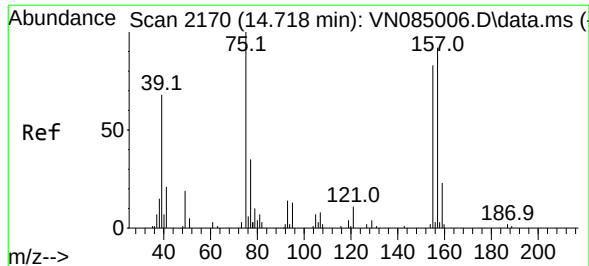
Ion Ratio Lower Upper

146 100

111 43.3 21.9 65.8

148 63.5 31.1 93.2





#92

1,2-Dibromo-3-Chloropropane

Concen: 51.085 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. -0.000 min

Lab File: VN085102.D

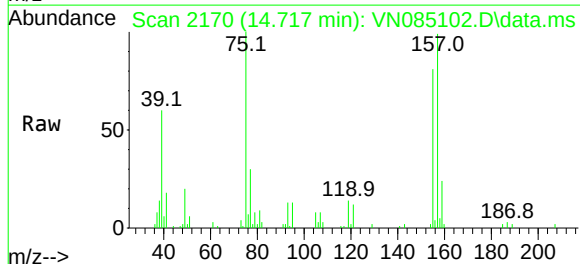
Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

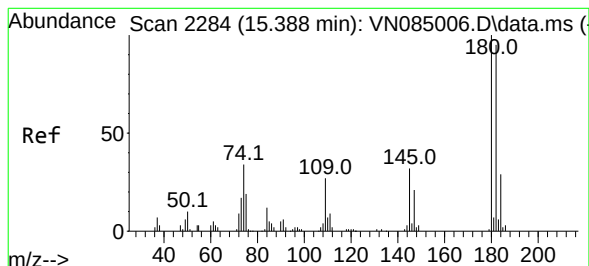
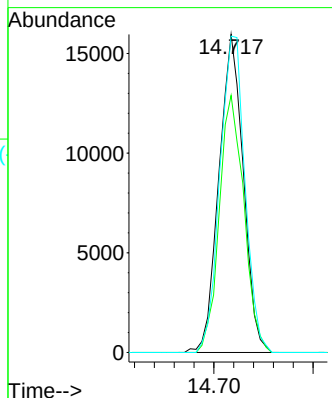
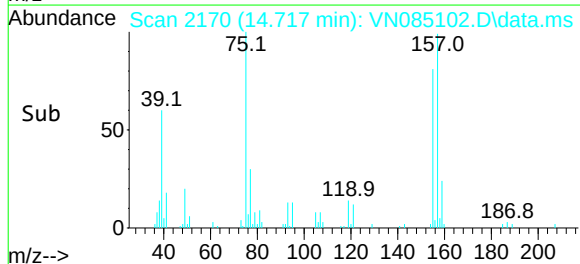
UNIT-51-RS-SW001-01MS



Tgt Ion:	75	Resp:	27199
Ion	Ratio	Lower	Upper
75	100		
155	81.5	38.9	116.7
157	102.2	48.3	144.9

**Manual Integrations
APPROVED**

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#93

1,2,4-Trichlorobenzene

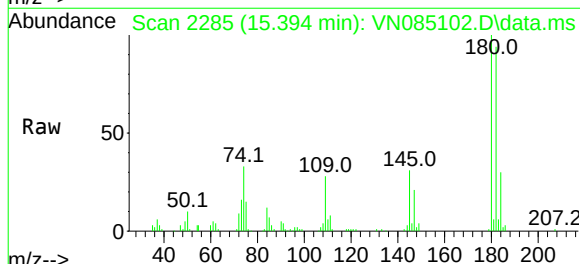
Concen: 41.937 ug/l

RT: 15.394 min Scan# 2285

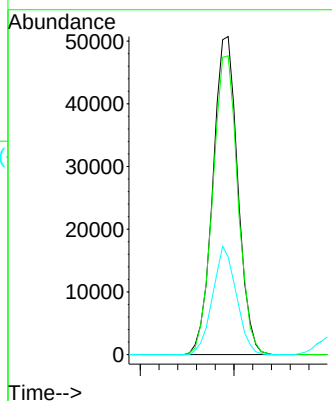
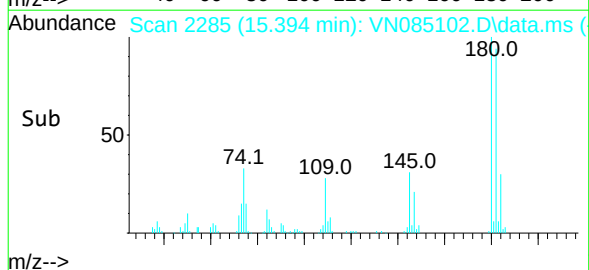
Delta R.T. 0.006 min

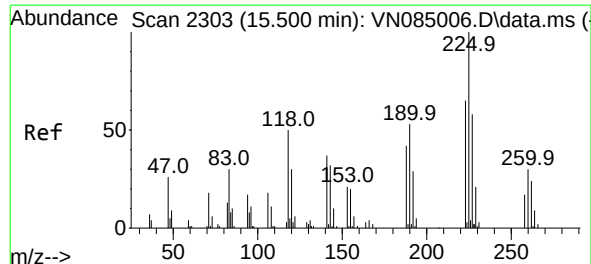
Lab File: VN085102.D

Acq: 04 Dec 2024 18:25



Tgt Ion:	180	Resp:	93438
Ion	Ratio	Lower	Upper
180	100		
182	94.9	46.9	140.8
145	32.5	16.3	48.8





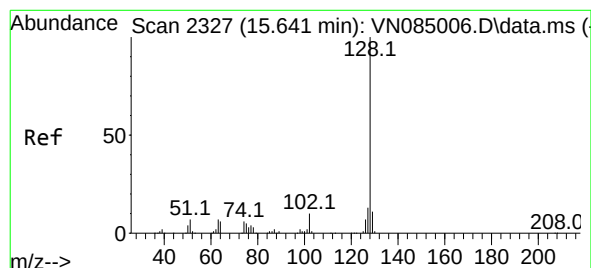
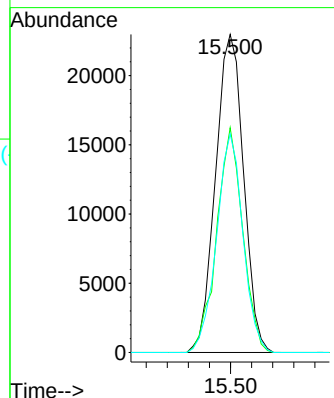
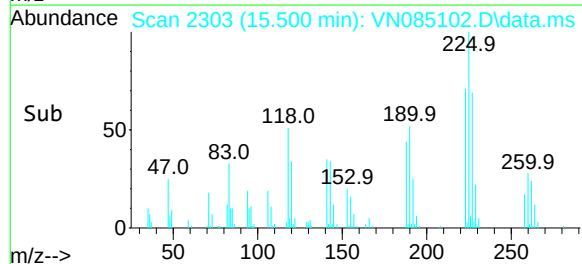
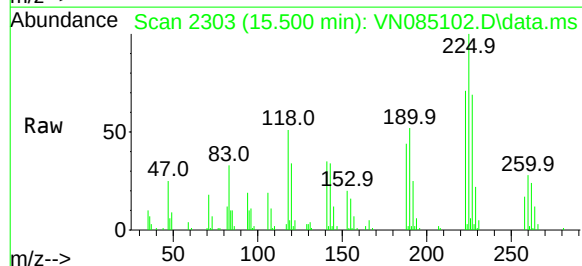
#94
Hexachlorobutadiene
Concen: 41.317 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN085102.D
Acq: 04 Dec 2024 18:25

Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-RS-SW001-01MS

Tgt Ion:225 Resp: 42485
Ion Ratio Lower Upper
225 100
223 65.7 30.9 92.8
227 64.5 31.5 94.5

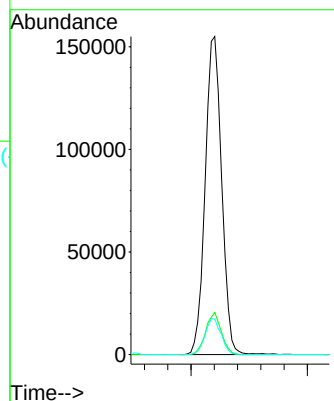
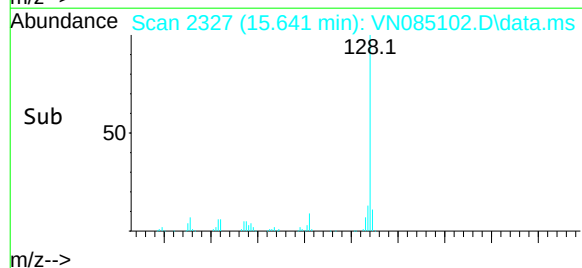
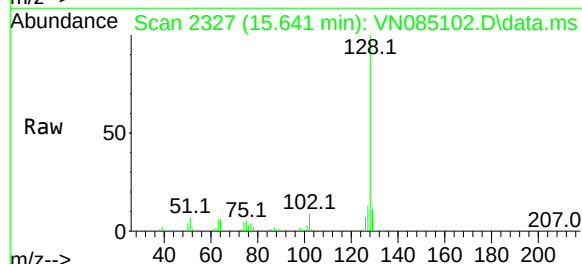
Manual Integrations
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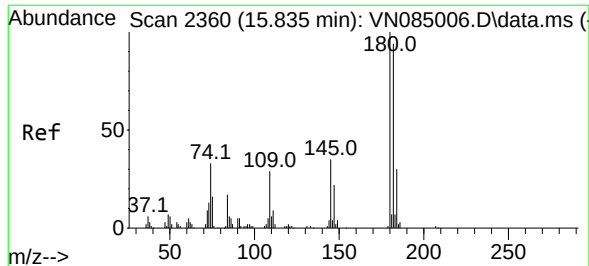
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#95
Naphthalene
Concen: 48.042 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN085102.D
Acq: 04 Dec 2024 18:25

Tgt Ion:128 Resp: 304865
Ion Ratio Lower Upper
128 100
127 12.5 10.6 16.0
129 11.0 8.6 12.8





#96

1,2,3-Trichlorobenzene

Concen: 43.474 ug/l

RT: 15.841 min Scan# 23

Delta R.T. 0.006 min

Lab File: VN085102.D

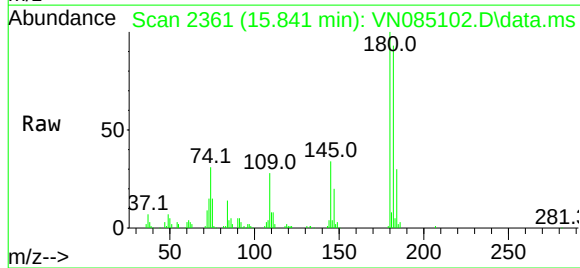
Acq: 04 Dec 2024 18:25

Instrument :

MSVOA_N

ClientSampleId :

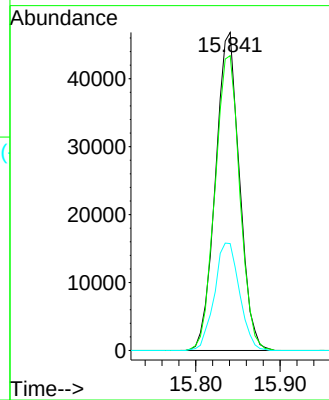
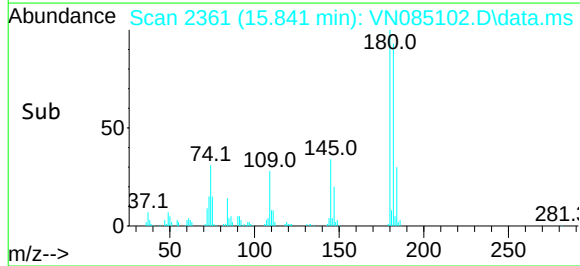
UNIT-51-RS-SW001-01MS



Tgt Ion:	180	Resp:	92423
Ion Ratio	Lower	Upper	
180	100		
182	95.5	46.4	139.2
145	35.3	17.3	52.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	12/03/24
Project:	RFP 890	Date Received:	12/04/24
Client Sample ID:	UNIT-51-RS-SW001-01MSD	SDG No.:	P5088
Lab Sample ID:	P5088-05MSD	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085103.D	1		12/04/24 18:49	VN120424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	41.9		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	46.1		0.26	1.00	ug/L
75-09-2	Methylene Chloride	45.3		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	43.9		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	48.2		0.23	1.00	ug/L
56-23-5	Carbon Tetrachloride	50.1		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	47.5		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	48.9		0.19	1.00	ug/L
79-01-6	Trichloroethene	48.4		0.32	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	55.1		0.21	1.00	ug/L
127-18-4	Tetrachloroethene	44.2		0.25	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	54.6		0.39	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.4		70 (74) - 130 (125)	99%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	50.0		70 (86) - 130 (113)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.2		70 (77) - 130 (121)	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	160000	8.224			
540-36-3	1,4-Difluorobenzene	267000	9.1			
3114-55-4	Chlorobenzene-d5	236000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	113000	13.788			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120424\
 Data File : VN085103.D
 Acq On : 04 Dec 2024 18:49
 Operator : JC\MD
 Sample : P5088-05MSD
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 UNIT-51-RS-SW001-01MSD

Quant Time: Dec 04 22:12:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 23 02:54:10 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 12/05/2024
 Supervised By :Mahesh Dadoda 12/05/2024

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	160452	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	266631	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	236037	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	113440	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	112982	49.434	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	98.860%
35) Dibromofluoromethane	8.165	113	91817	51.064	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	102.120%
50) Toluene-d8	10.565	98	321887	49.953	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	99.900%
62) 4-Bromofluorobenzene	12.847	95	123416	51.214	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	102.420%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	78369	43.195	ug/l	96
3) Chloromethane	2.359	50	73440	34.900	ug/l	94
4) Vinyl Chloride	2.512	62	79224	41.894	ug/l	97
5) Bromomethane	2.942	94	44111	41.617	ug/l	92
6) Chloroethane	3.112	64	50981	39.996	ug/l	96
7) Trichlorofluoromethane	3.494	101	149102	46.349	ug/l	100
8) Diethyl Ether	3.959	74	54608	49.875	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.377	101	86508	47.414	ug/l	98
10) Methyl Iodide	4.589	142	106305	44.017	ug/l	99
11) Tert butyl alcohol	5.518	59	92706	303.538	ug/l	96
12) 1,1-Dichloroethene	4.336	96	78591	46.148	ug/l	96
13) Acrolein	4.171	56	66027	323.985	ug/l	96
14) Allyl chloride	5.024	41	120286	41.898	ug/l	93
15) Acrylonitrile	5.712	53	239039	276.446	ug/l	99
16) Acetone	4.424	43	188859	283.729	ug/l	98
17) Carbon Disulfide	4.712	76	173835	34.582	ug/l	98
18) Methyl Acetate	5.018	43	118419	55.793	ug/l	100
19) Methyl tert-butyl Ether	5.794	73	292473	52.562	ug/l	98
20) Methylene Chloride	5.271	84	92100	45.343	ug/l	96
21) trans-1,2-Dichloroethene	5.783	96	78737	43.934	ug/l	92
22) Diisopropyl ether	6.665	45	288678	49.960	ug/l	99
23) Vinyl Acetate	6.600	43	1038722	260.573	ug/l	99
24) 1,1-Dichloroethane	6.565	63	166627	48.188	ug/l	99
25) 2-Butanone	7.477	43	304750	280.036	ug/l	99
26) 2,2-Dichloropropane	7.488	77	149928	46.434	ug/l	97
27) cis-1,2-Dichloroethene	7.482	96	102627	47.501	ug/l	98
28) Bromochloromethane	7.812	49	64611	49.500	ug/l	97
29) Tetrahydrofuran	7.835	42	198212	292.888	ug/l	99
30) Chloroform	7.965	83	179383	48.769	ug/l	99
31) Cyclohexane	8.253	56	124312	40.832	ug/l	98
32) 1,1,1-Trichloroethane	8.171	97	162679	48.943	ug/l	98
36) 1,1-Dichloropropene	8.371	75	113116	46.445	ug/l	99
37) Ethyl Acetate	7.559	43	121256	54.765	ug/l	99
38) Carbon Tetrachloride	8.359	117	140805	50.086	ug/l	99
39) Methylcyclohexane	9.600	83	118680	46.894	ug/l	99
40) Benzene	8.606	78	367439	47.701	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120424\
 Data File : VN085103.D
 Acq On : 04 Dec 2024 18:49
 Operator : JC\MD
 Sample : P5088-05MSD
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 UNIT-51-RS-SW001-01MSD

Quant Time: Dec 04 22:12:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 23 02:54:10 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 12/05/2024
 Supervised By :Mahesh Dadoda 12/05/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	67375	54.960	ug/l	98
42) 1,2-Dichloroethane	8.665	62	127622	48.429	ug/l	99
43) Isopropyl Acetate	8.682	43	225303	48.989	ug/l	99
44) Trichloroethene	9.353	130	86584	48.368	ug/l	98
45) 1,2-Dichloropropane	9.618	63	92759	48.891	ug/l	99
46) Dibromomethane	9.706	93	65493	49.679	ug/l	98
47) Bromodichloromethane	9.888	83	145160	51.952	ug/l	98
48) Methyl methacrylate	9.676	41	99236	57.985	ug/l	98
49) 1,4-Dioxane	9.694	88	36827	1240.839	ug/l #	95
51) 4-Methyl-2-Pentanone	10.441	43	648294	308.617	ug/l	98
52) Toluene	10.629	92	231668	50.803	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	143034	51.061	ug/l	97
54) cis-1,3-Dichloropropene	10.312	75	146430	49.273	ug/l	99
55) 1,1,2-Trichloroethane	11.018	97	93588	55.099	ug/l	98
56) Ethyl methacrylate	10.871	69	150674	60.707	ug/l	99
57) 1,3-Dichloropropane	11.159	76	156621	52.392	ug/l	99
59) 2-Hexanone	11.194	43	474154	301.801	ug/l	99
60) Dibromochloromethane	11.359	129	112723	54.302	ug/l	98
61) 1,2-Dibromoethane	11.465	107	92337	52.528	ug/l	99
64) Tetrachloroethene	11.100	164	70242	44.164	ug/l	98
65) Chlorobenzene	11.888	112	255953	47.815	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	95698	50.775	ug/l	99
67) Ethyl Benzene	11.959	91	444549	51.188	ug/l	99
68) m/p-Xylenes	12.070	106	341529	103.293	ug/l	100
69) o-Xylene	12.394	106	167704	53.321	ug/l	99
70) Styrene	12.412	104	283523	54.207	ug/l	100
71) Bromoform	12.576	173	75771	54.160	ug/l #	97
73) Isopropylbenzene	12.694	105	427756	53.451	ug/l	100
74) N-amyl acetate	12.494	43	184435	55.928	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	138336	50.621	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	112717m	54.627	ug/l	
77) Bromobenzene	12.976	156	106457	49.432	ug/l	100
78) n-propylbenzene	13.035	91	505144	54.725	ug/l	99
79) 2-Chlorotoluene	13.123	91	309565	50.239	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	368177	54.826	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	49909	53.396	ug/l	99
82) 4-Chlorotoluene	13.217	91	315657	49.210	ug/l	100
83) tert-Butylbenzene	13.435	119	324884	56.228	ug/l	95
84) 1,2,4-Trimethylbenzene	13.482	105	370220	53.558	ug/l	100
85) sec-Butylbenzene	13.617	105	425229	54.480	ug/l	99
86) p-Isopropyltoluene	13.729	119	359937	55.863	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	190311	44.802	ug/l	99
88) 1,4-Dichlorobenzene	13.811	146	192522	44.412	ug/l	99
89) n-Butylbenzene	14.053	91	296746	49.524	ug/l	99
90) Hexachloroethane	14.329	117	70387	50.117	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	189612	46.583	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	28656	54.228	ug/l	99
93) 1,2,4-Trichlorobenzene	15.394	180	95500	43.186	ug/l	99
94) Hexachlorobutadiene	15.500	225	45793	44.870	ug/l	97
95) Naphthalene	15.641	128	317581	50.424	ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	95562	45.290	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120424\
Data File : VN085103.D
Acq On : 04 Dec 2024 18:49
Operator : JC\MD
Sample : P5088-05MSD
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 04 22:12:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-RS-SW001-01MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024

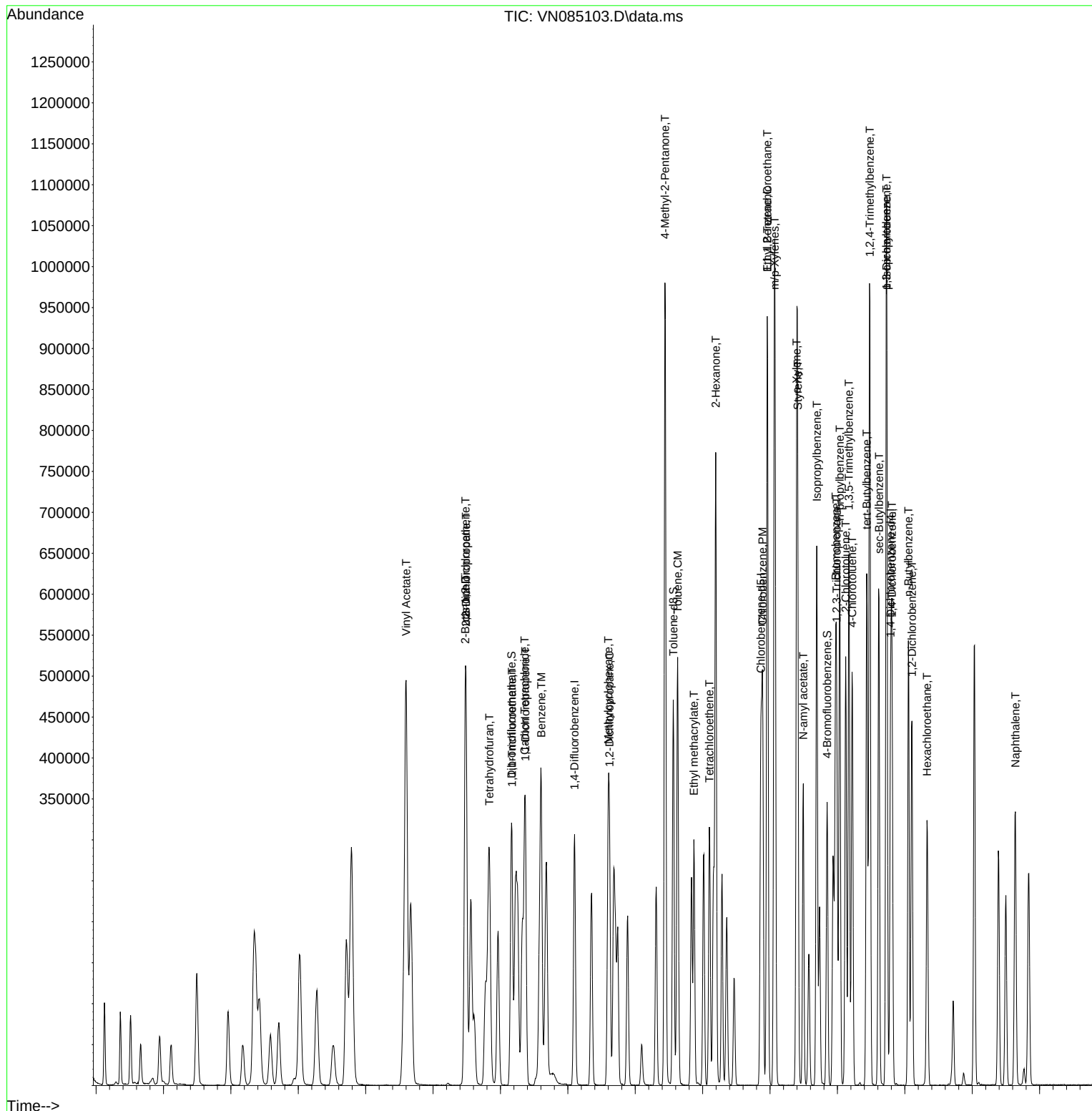
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

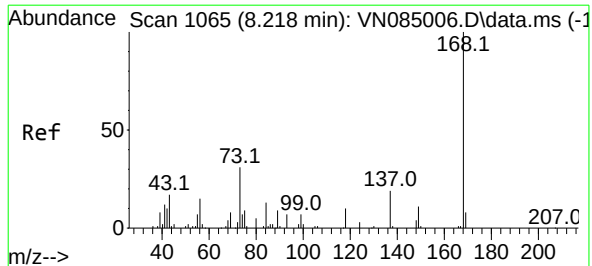
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Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-RS-SW001-01MSD

Manual Integrations

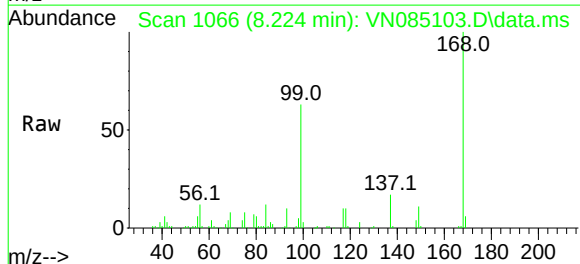
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085103.D
Acq: 04 Dec 2024 18:49

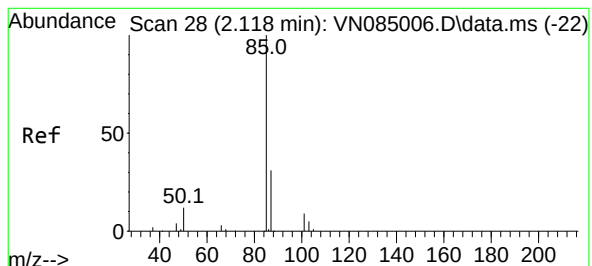
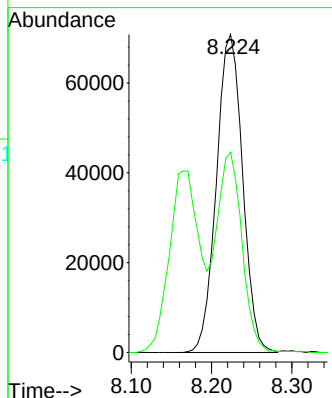
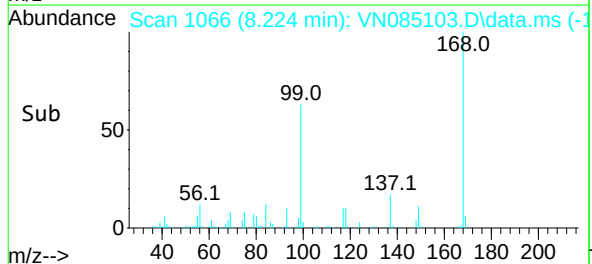
Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-RS-SW001-01MSD



Tgt Ion: 168 Resp: 160452
Ion Ratio Lower Upper
168 100
99 62.7 51.2 76.8

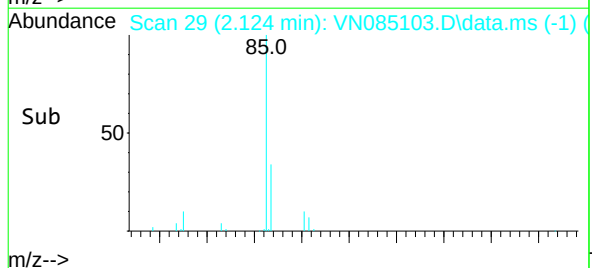
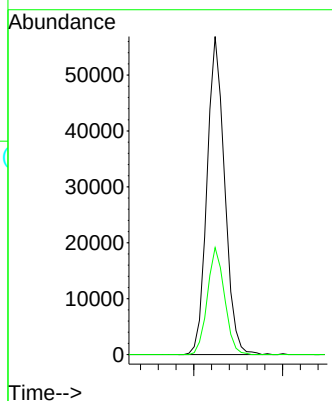
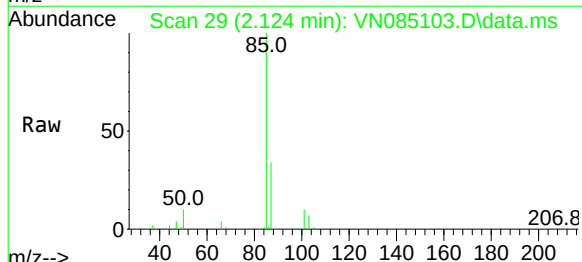
Manual Integrations
APPROVED

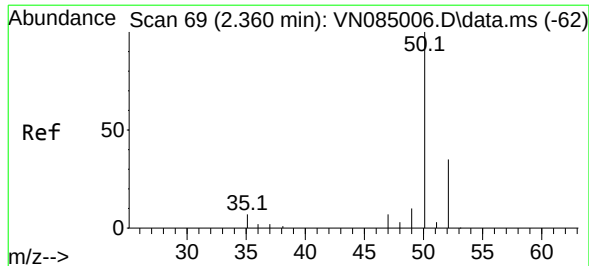
Reviewed By : John Carlone 12/05/2024
Supervised By : Mahesh Dadoda 12/05/2024



#2
Dichlorodifluoromethane
Concen: 43.195 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.006 min
Lab File: VN085103.D
Acq: 04 Dec 2024 18:49

Tgt Ion: 85 Resp: 78369
Ion Ratio Lower Upper
85 100
87 33.6 15.7 47.1





#3

Chloromethane

Concen: 34.900 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.000 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MSD

Tgt Ion: 50 Resp: 73440

Ion Ratio Lower Upper

50 100

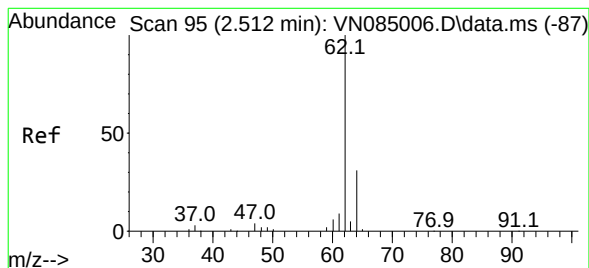
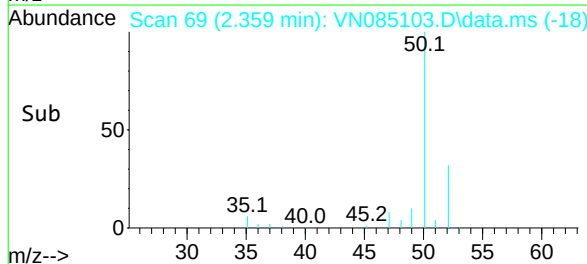
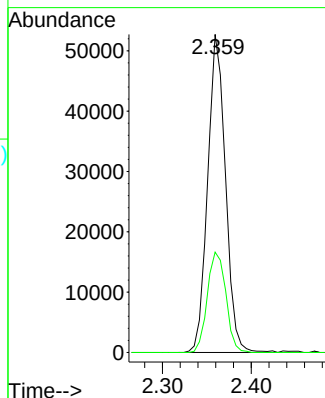
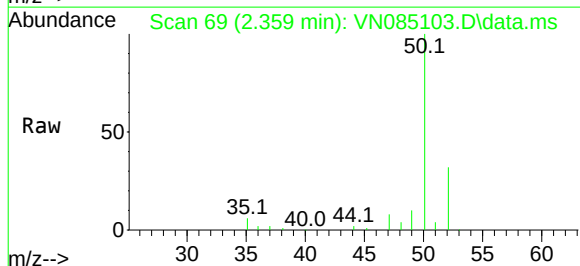
52 31.6 27.8 41.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#4

Vinyl Chloride

Concen: 41.894 ug/l

RT: 2.512 min Scan# 95

Delta R.T. -0.000 min

Lab File: VN085103.D

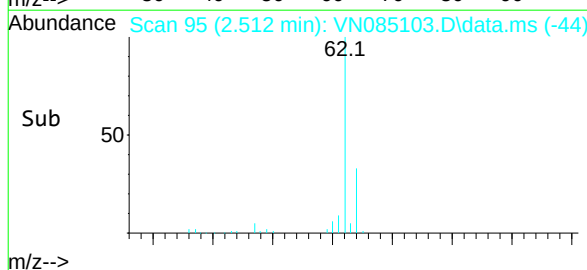
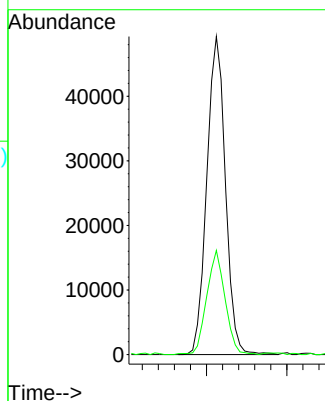
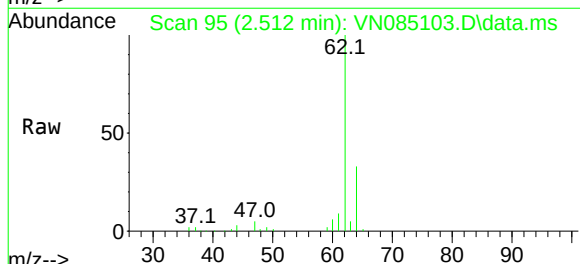
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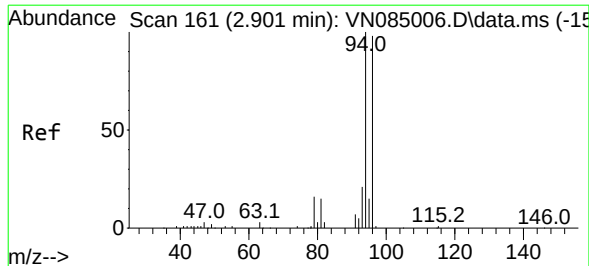
Tgt Ion: 62 Resp: 79224

Ion Ratio Lower Upper

62 100

64 32.4 24.6 36.8





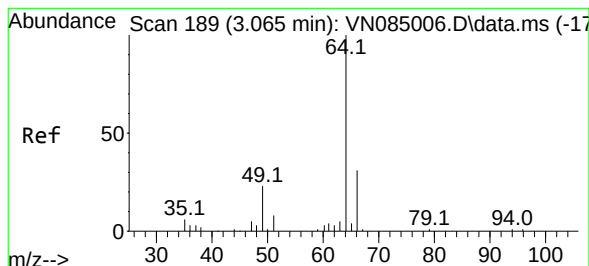
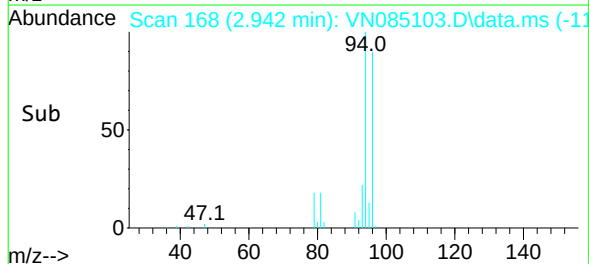
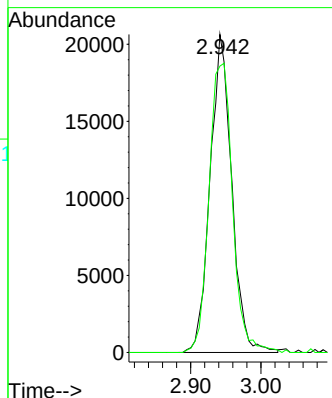
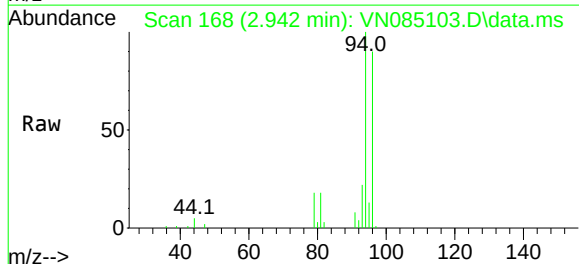
#5
Bromomethane
Concen: 41.617 ug/l
RT: 2.942 min Scan# 161
Delta R.T. 0.041 min
Lab File: VN085103.D
Acq: 04 Dec 2024 18:49

Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-RS-SW001-01MSD

Tgt Ion: 94 Resp: 44111
Ion Ratio Lower Upper
94 100
96 90.0 78.7 118.1

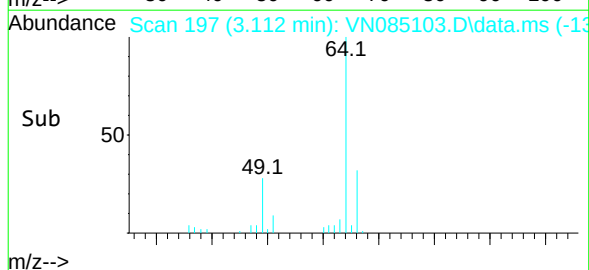
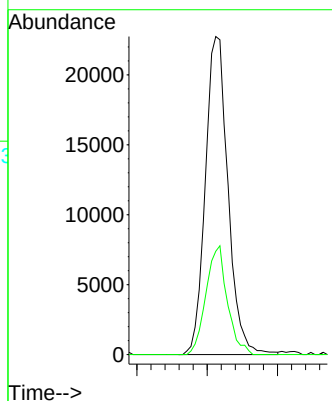
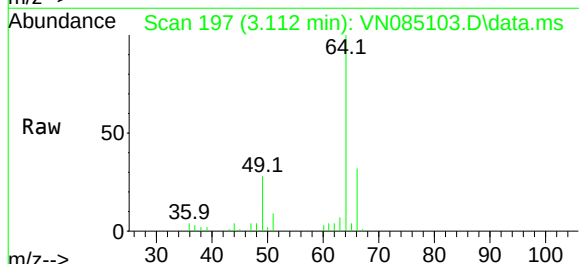
Manual Integrations
APPROVED

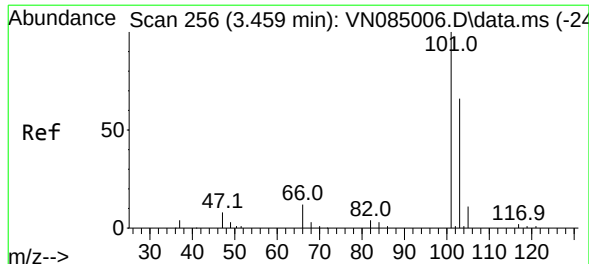
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#6
Chloroethane
Concen: 39.996 ug/l
RT: 3.112 min Scan# 197
Delta R.T. 0.047 min
Lab File: VN085103.D
Acq: 04 Dec 2024 18:49

Tgt Ion: 64 Resp: 50981
Ion Ratio Lower Upper
64 100
66 32.5 24.4 36.6





#7

Trichlorofluoromethane

Concen: 46.349 ug/l

RT: 3.494 min Scan# 26

Delta R.T. 0.035 min

Lab File: VN085103.D

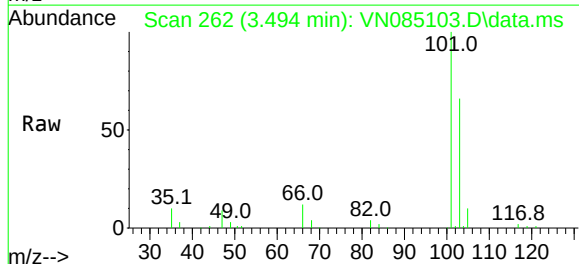
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Instrument :

MSVOA_N

ClientSampleId :

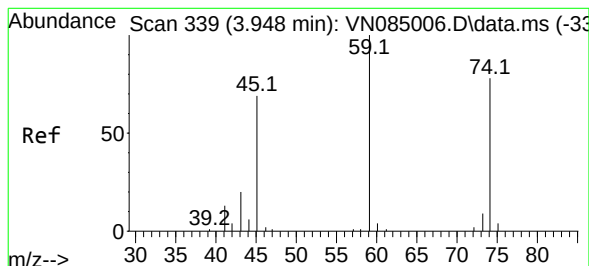
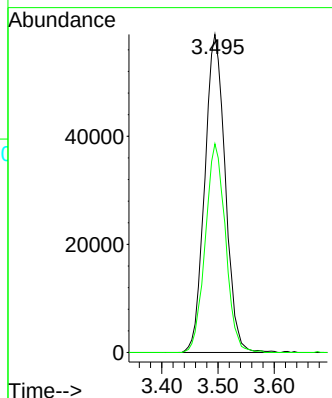
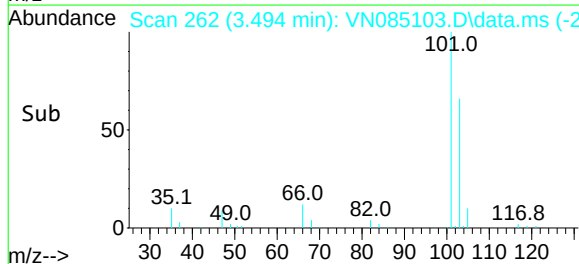
UNIT-51-RS-SW001-01MSD



Tgt Ion:	101	Resp:	149102
Ion	Ratio	Lower	Upper
101	100		
103	65.6	52.6	78.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#8

Diethyl Ether

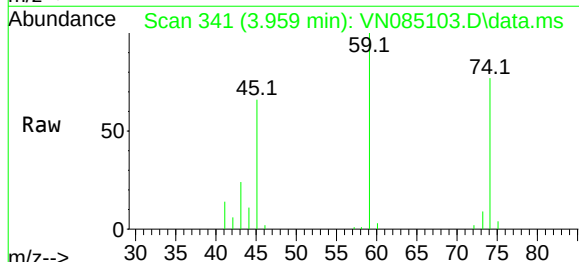
Concen: 49.875 ug/l

RT: 3.959 min Scan# 341

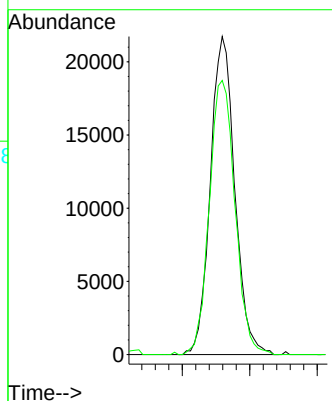
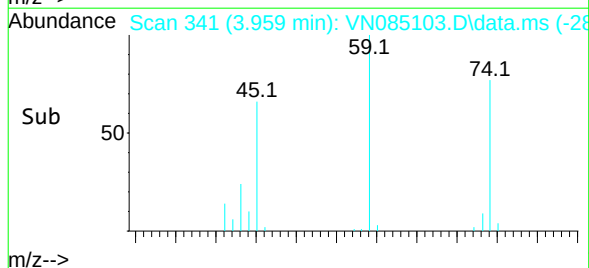
Delta R.T. 0.012 min

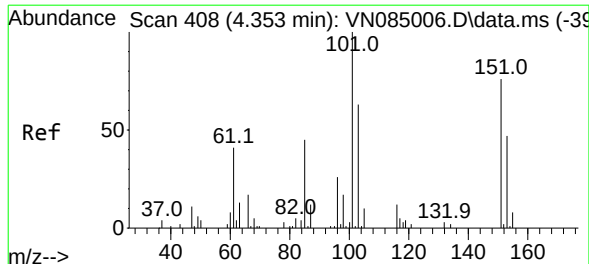
Lab File: VN085103.D

Acq: 04 Dec 2024 18:49



Tgt Ion:	74	Resp:	54608
Ion	Ratio	Lower	Upper
74	100		
45	90.6	46.7	140.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.414 ug/l

RT: 4.377 min Scan# 411

Delta R.T. 0.023 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

ClientSampleId :

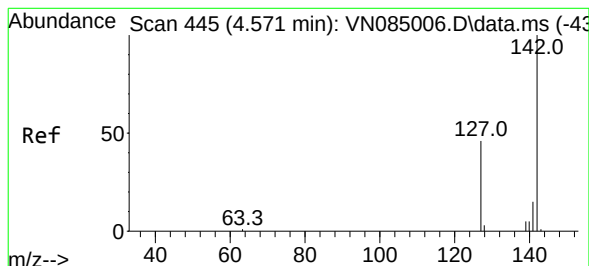
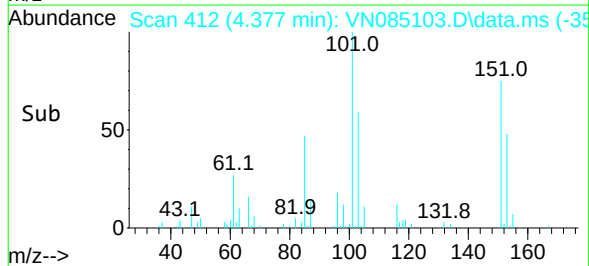
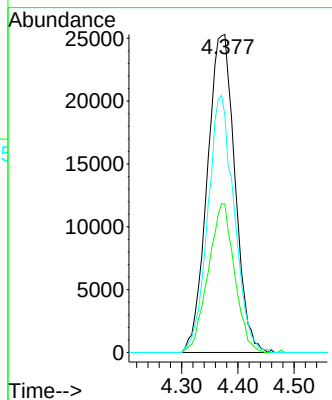
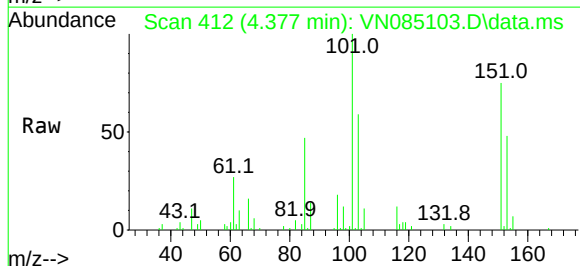
UNIT-51-RS-SW001-01MSD

Tgt Ion:	101	Resp:	86508
Ion	Ratio	Lower	Upper
101	100		
85	44.4	36.9	55.3
151	77.0	60.8	91.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#10

Methyl Iodide

Concen: 44.017 ug/l

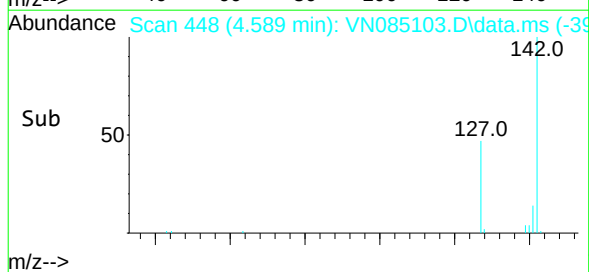
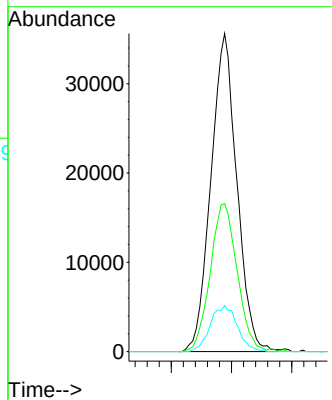
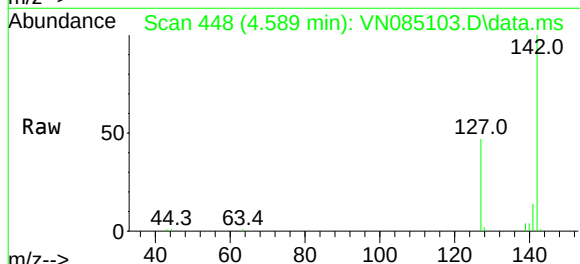
RT: 4.589 min Scan# 448

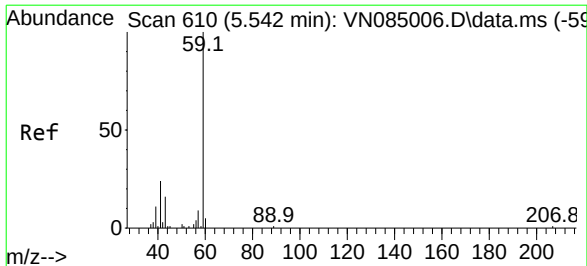
Delta R.T. 0.017 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Tgt Ion:	142	Resp:	106305
Ion	Ratio	Lower	Upper
142	100		
127	46.5	36.6	54.8
141	14.5	12.2	18.4





#11

Tert butyl alcohol

Concen: 303.538 ug/l

RT: 5.518 min Scan# 606

Delta R.T. -0.024 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MSD

Tgt Ion: 59 Resp: 92706

Ion Ratio Lower Upper

59 100

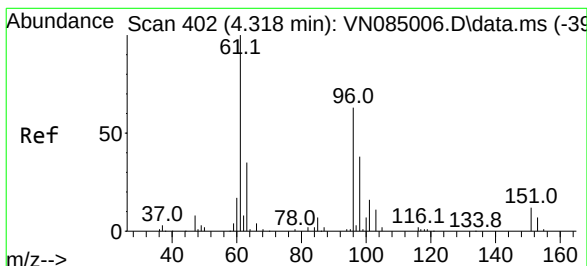
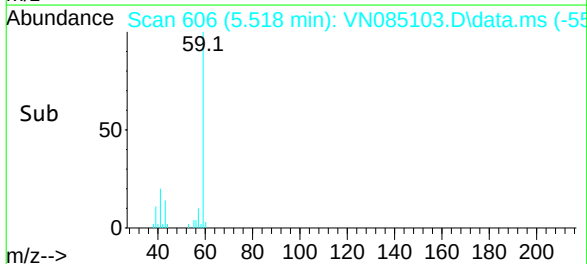
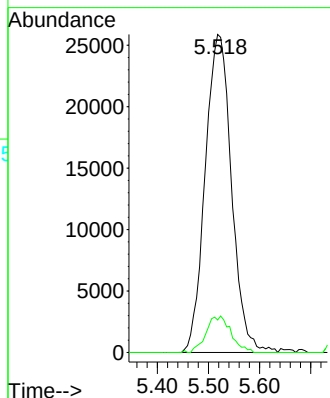
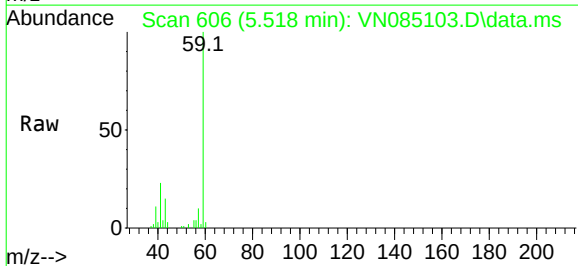
57 10.8 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#12

1,1-Dichloroethene

Concen: 46.148 ug/l

RT: 4.336 min Scan# 405

Delta R.T. 0.017 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

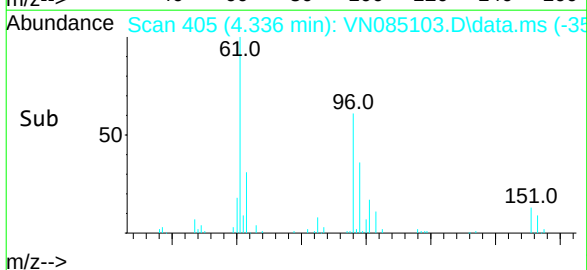
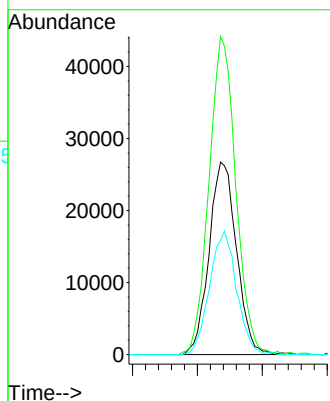
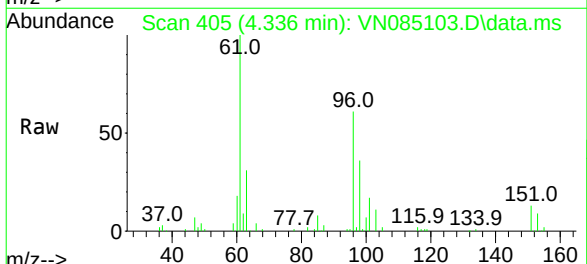
Tgt Ion: 96 Resp: 78591

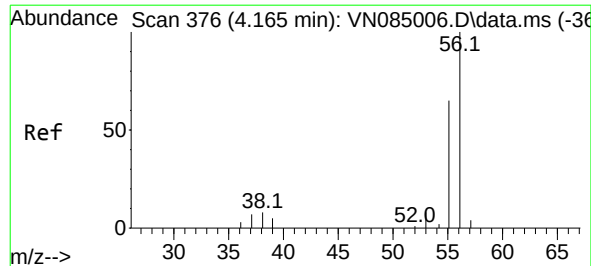
Ion Ratio Lower Upper

96 100

61 165.2 127.8 191.8

98 59.3 49.2 73.8





#13

Acrolein

Concen: 323.985 ug/l

RT: 4.171 min Scan# 37

Delta R.T. 0.006 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MSD

Tgt Ion: 56 Resp: 66027

Ion Ratio Lower Upper

56 100

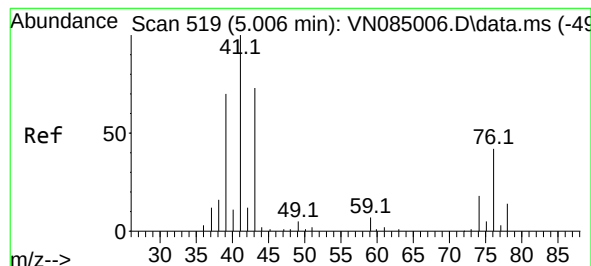
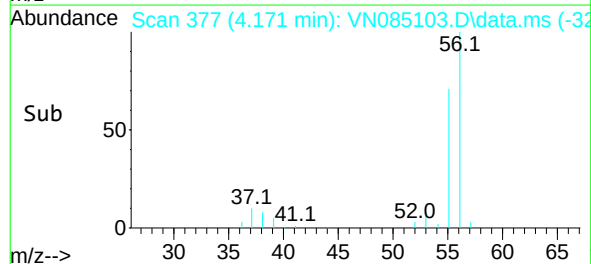
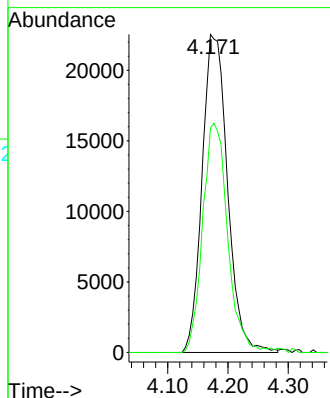
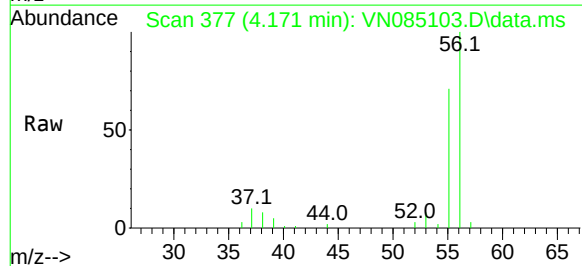
55 71.0 54.5 81.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#14

Allyl chloride

Concen: 41.898 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.017 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

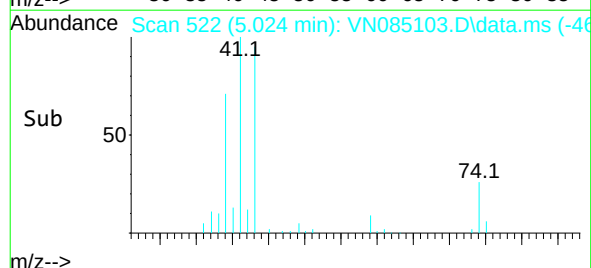
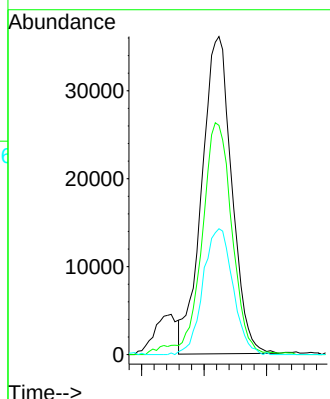
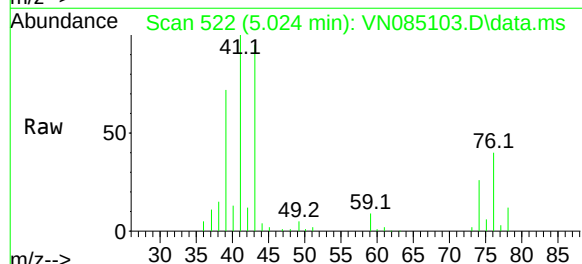
Tgt Ion: 41 Resp: 120286

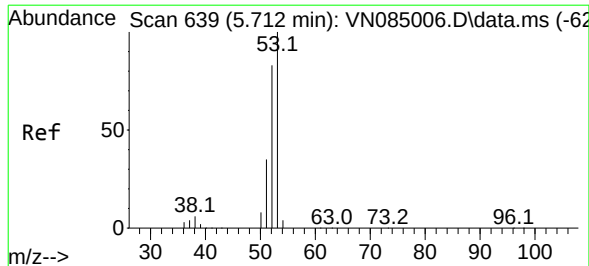
Ion Ratio Lower Upper

41 100

39 73.9 53.8 80.8

76 39.6 29.3 43.9





#15

Acrylonitrile

Concen: 276.446 ug/l

RT: 5.712 min Scan# 639

Delta R.T. -0.000 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

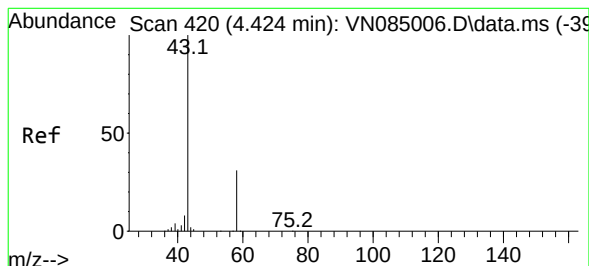
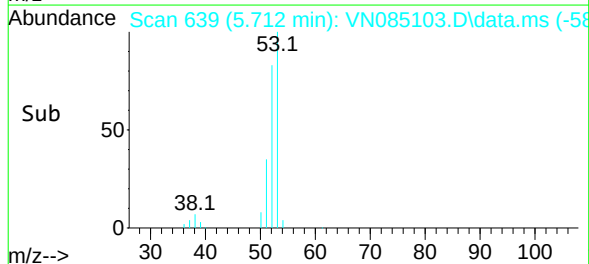
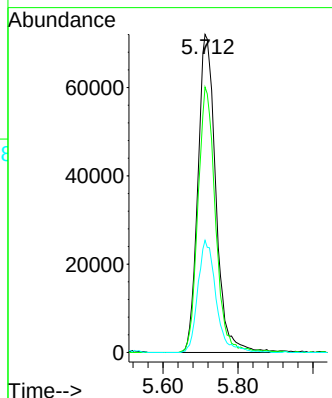
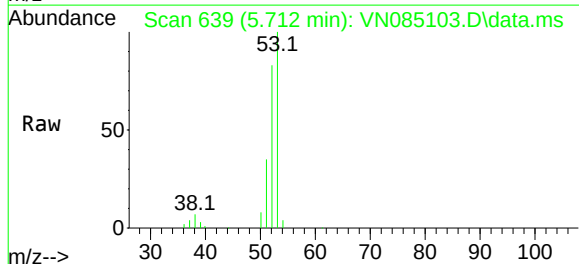
ClientSampleId :

UNIT-51-RS-SW001-01MSD

Tgt Ion:	53	Resp:	239039
Ion	Ratio	Lower	Upper
53	100		
52	81.0	65.5	98.3
51	36.0	28.4	42.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#16

Acetone

Concen: 283.729 ug/l

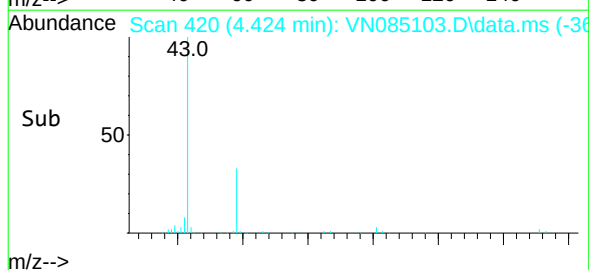
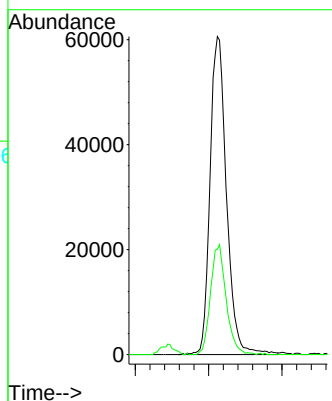
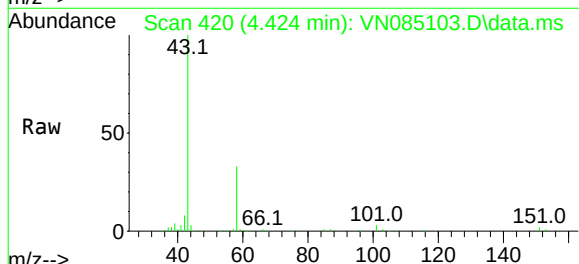
RT: 4.424 min Scan# 420

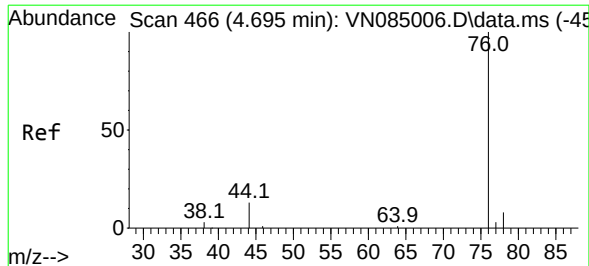
Delta R.T. -0.000 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Tgt Ion:	43	Resp:	188859
Ion	Ratio	Lower	Upper
43	100		
58	33.1	25.4	38.2





#17

Carbon Disulfide

Concen: 34.582 ug/l

RT: 4.712 min Scan# 46

Delta R.T. 0.017 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MSD

Tgt Ion: 76 Resp: 173835

Ion Ratio Lower Upper

76 100

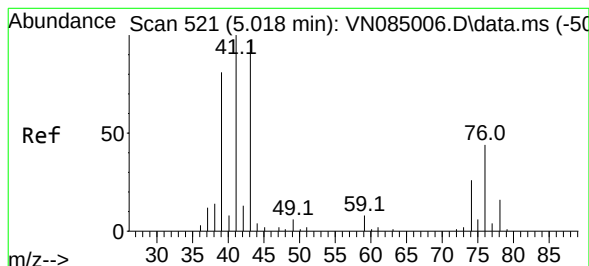
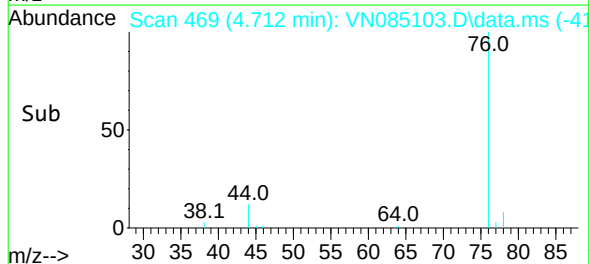
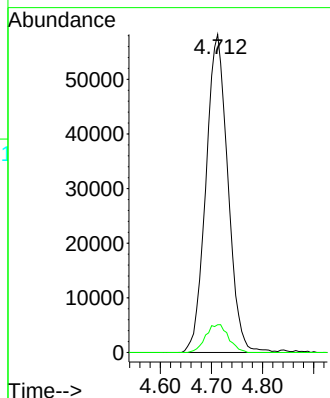
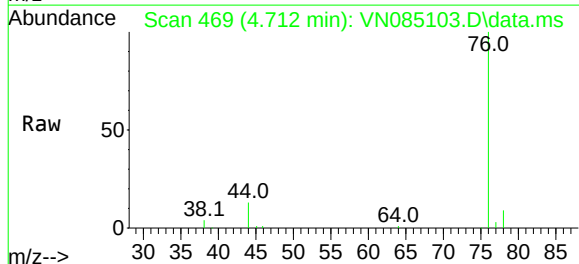
78 8.7 6.5 9.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#18

Methyl Acetate

Concen: 55.793 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN085103.D

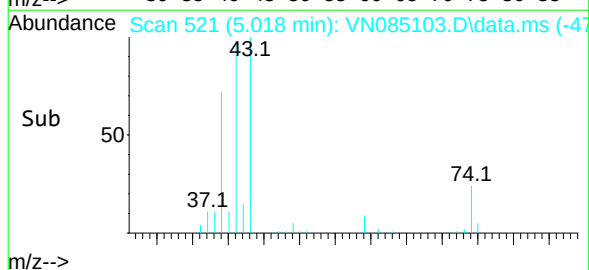
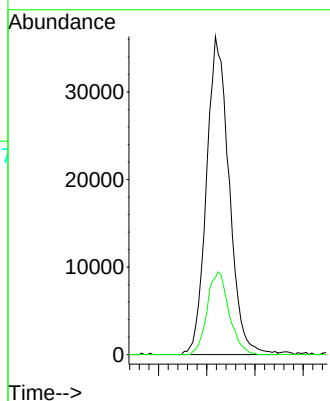
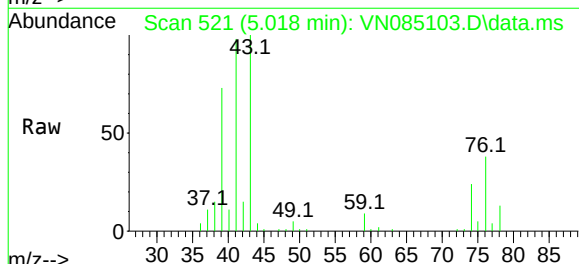
Acq: 04 Dec 2024 18:49

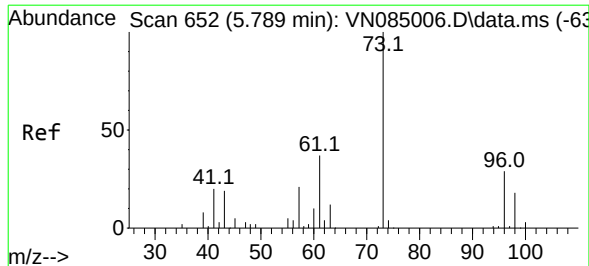
Tgt Ion: 43 Resp: 118419

Ion Ratio Lower Upper

43 100

74 25.1 20.1 30.1





#19

Methyl tert-butyl Ether

Concen: 52.562 ug/l

RT: 5.794 min Scan# 65

Delta R.T. 0.006 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MSD

Tgt Ion: 73 Resp: 292473

Ion Ratio Lower Upper

73 100

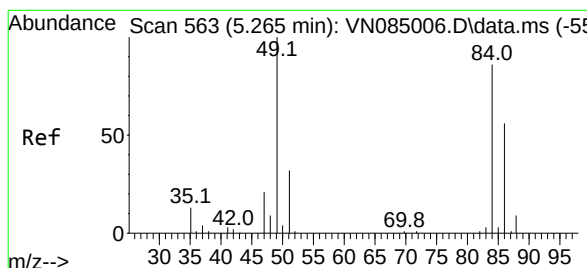
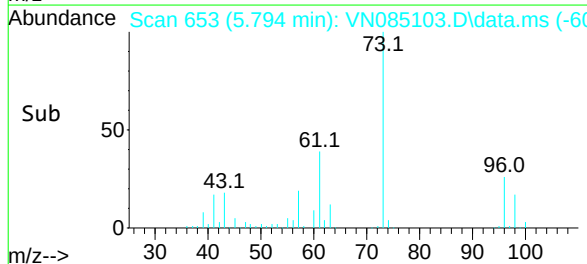
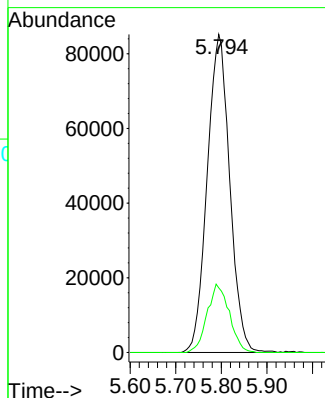
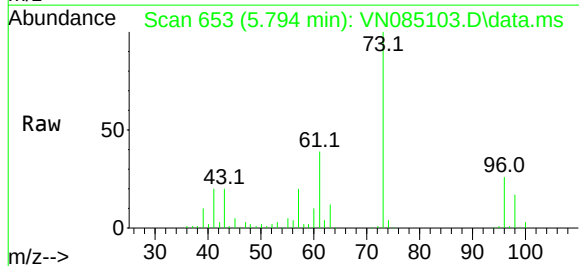
57 20.3 17.0 25.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#20

Methylene Chloride

Concen: 45.343 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.006 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Tgt Ion: 84 Resp: 92100

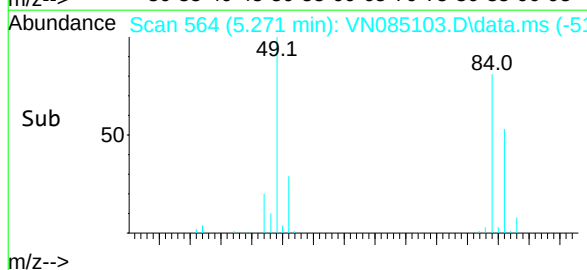
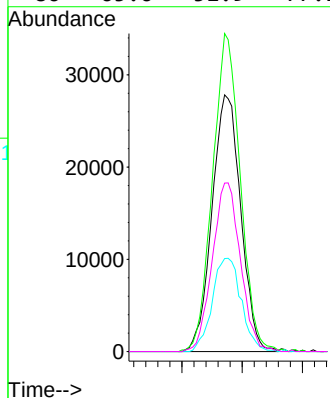
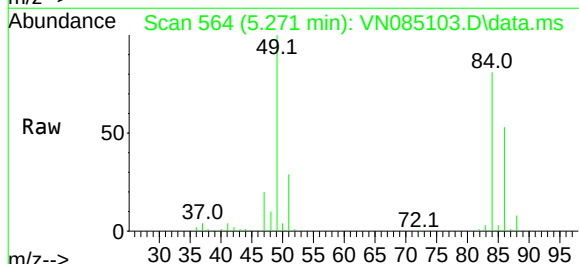
Ion Ratio Lower Upper

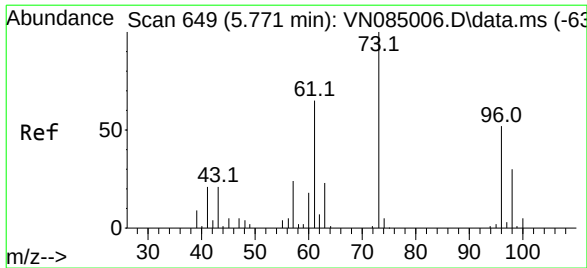
84 100

49 123.9 92.7 139.1

51 36.2 29.4 44.2

86 65.6 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 43.934 ug/l

RT: 5.783 min Scan# 651

Delta R.T. 0.012 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MSD

Tgt Ion: 96 Resp: 78737

Ion Ratio Lower Upper

96 100

61 134.2 100.7 151.1

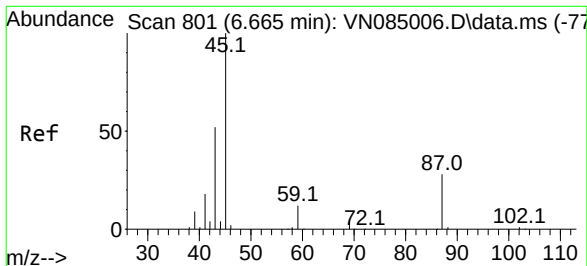
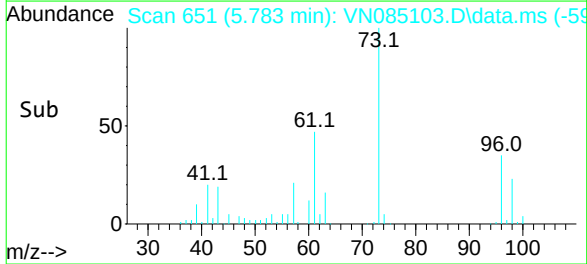
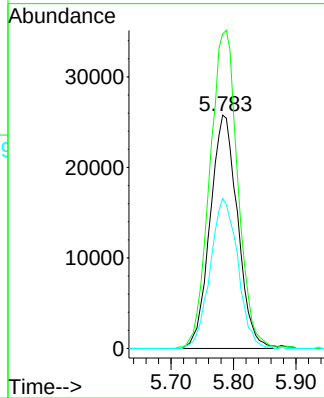
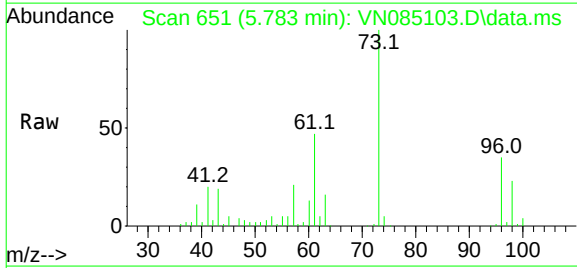
98 64.3 45.8 68.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#22

Diisopropyl ether

Concen: 49.960 ug/l

RT: 6.665 min Scan# 801

Delta R.T. -0.000 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Tgt Ion: 45 Resp: 288678

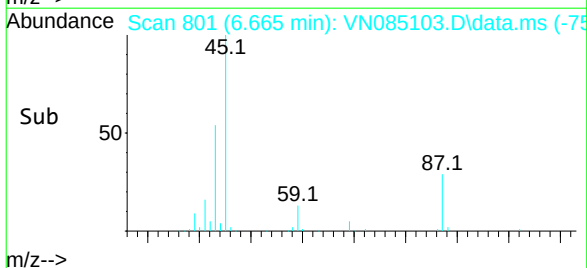
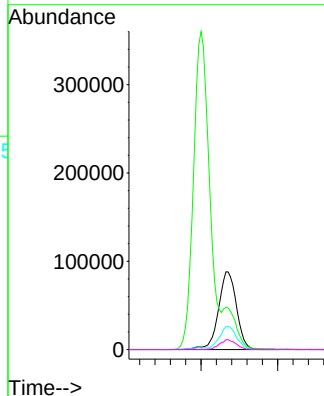
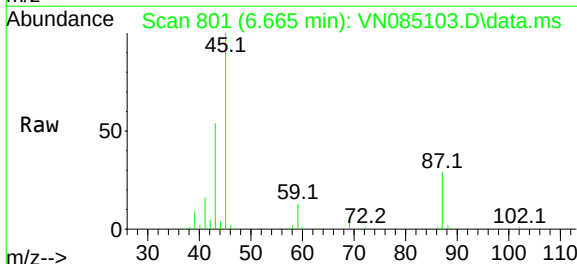
Ion Ratio Lower Upper

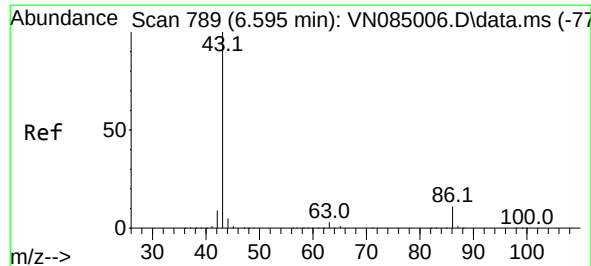
45 100

43 53.7 42.7 64.1

87 29.4 22.6 34.0

59 12.7 9.9 14.9





#23

Vinyl Acetate

Concen: 260.573 ug/l

RT: 6.600 min Scan# 790

Delta R.T. 0.006 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MSD

Tgt Ion: 43 Resp: 1038722

Ion Ratio Lower Upper

43 100

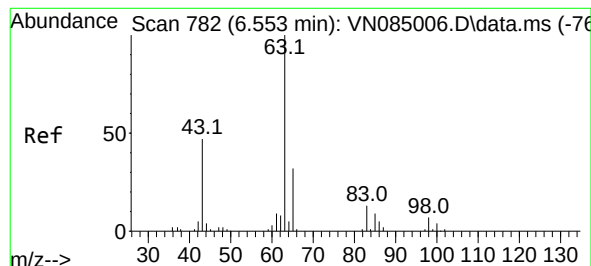
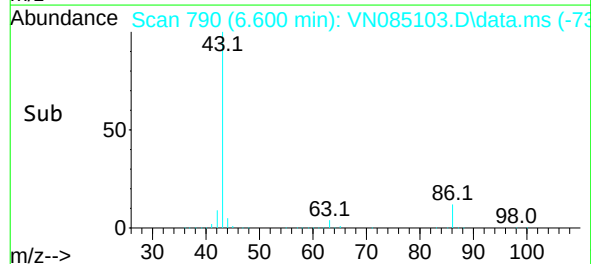
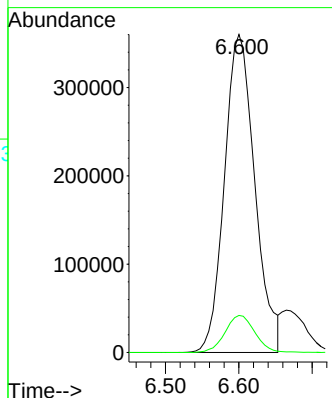
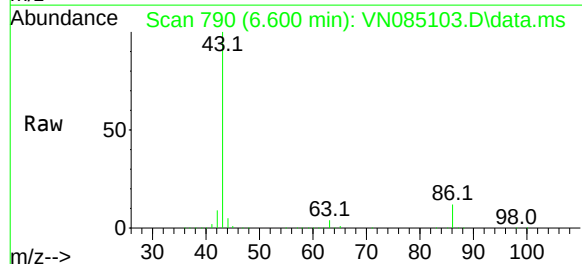
86 11.7 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#24

1,1-Dichloroethane

Concen: 48.188 ug/l

RT: 6.565 min Scan# 784

Delta R.T. 0.012 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

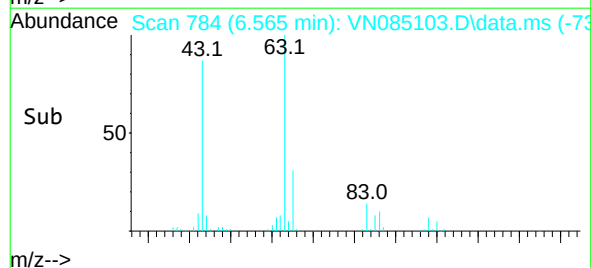
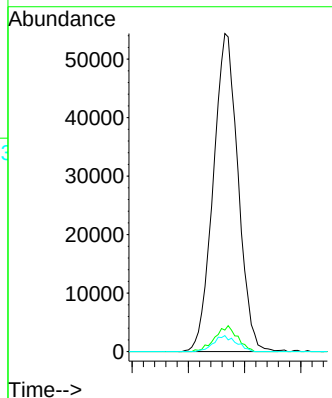
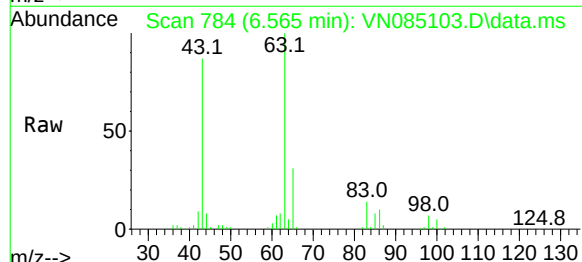
Tgt Ion: 63 Resp: 166627

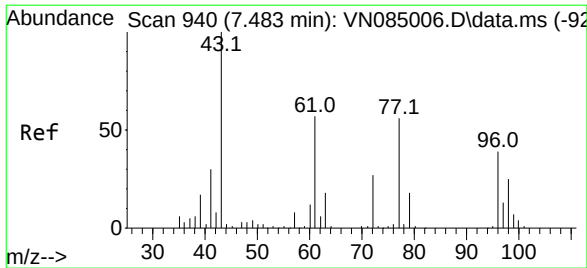
Ion Ratio Lower Upper

63 100

98 6.8 3.3 9.8

100 5.0 2.2 6.6





#25

2-Butanone

Concen: 280.036 ug/l

RT: 7.477 min Scan# 93

Delta R.T. -0.006 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MSD

Tgt Ion: 43 Resp: 304750

Ion Ratio Lower Upper

43 100

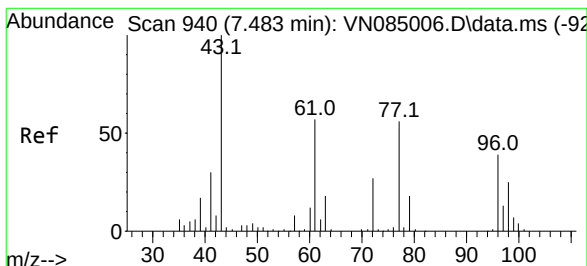
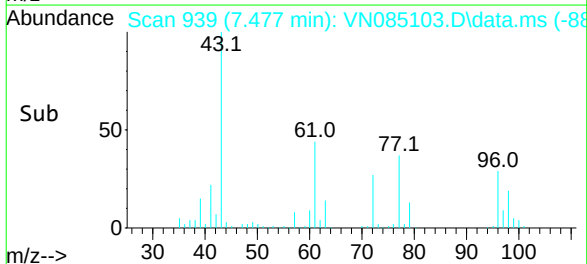
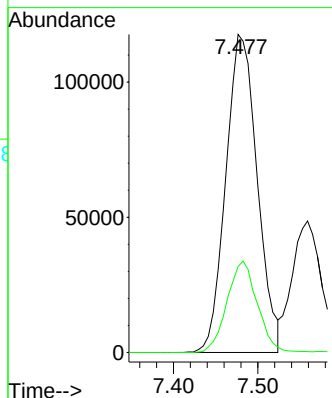
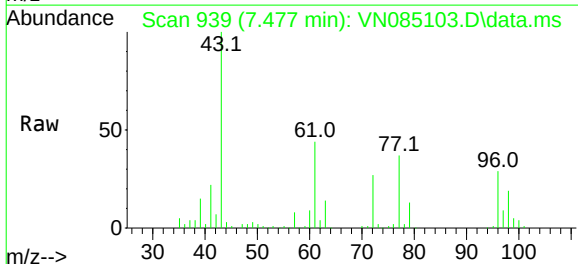
72 27.1 21.4 32.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#26

2,2-Dichloropropane

Concen: 46.434 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN085103.D

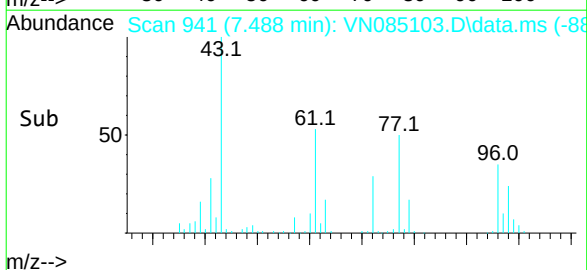
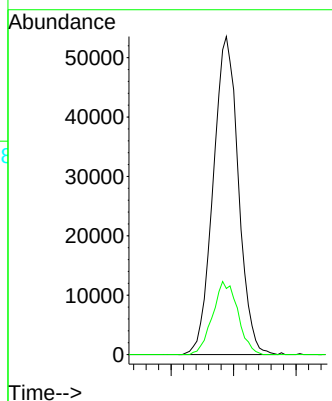
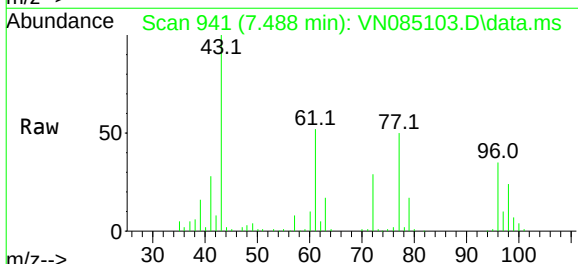
Acq: 04 Dec 2024 18:49

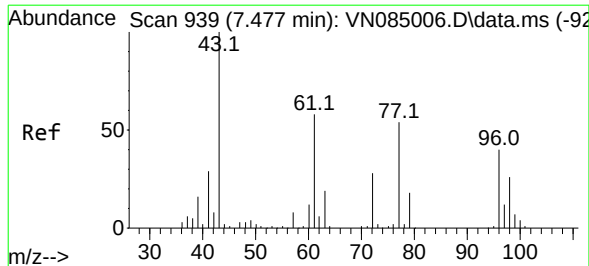
Tgt Ion: 77 Resp: 149928

Ion Ratio Lower Upper

77 100

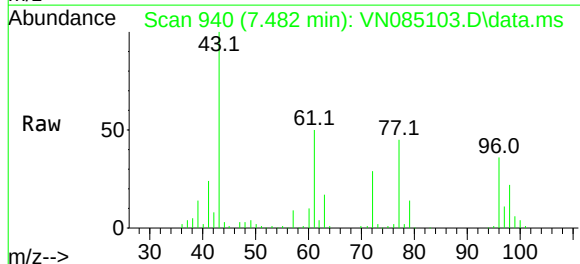
97 23.1 10.9 32.7





#27
cis-1,2-Dichloroethene
Concen: 47.501 ug/l
RT: 7.482 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN085103.D
Acq: 04 Dec 2024 18:49

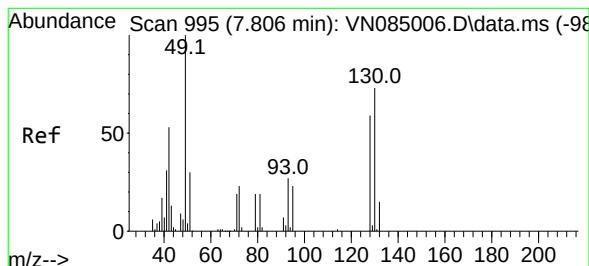
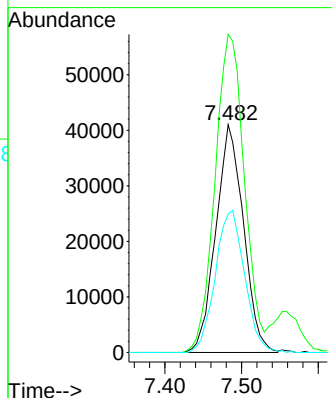
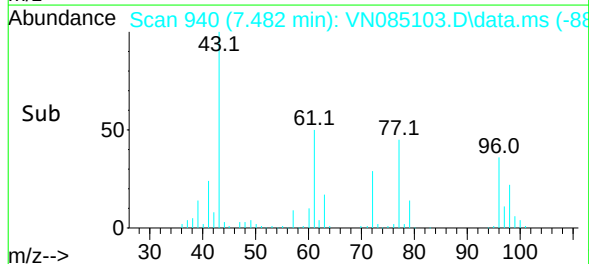
Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-RS-SW001-01MSD



Tgt Ion: 96 Resp: 102627
Ion Ratio Lower Upper
96 100
61 148.5 0.0 291.6
98 66.2 0.0 129.8

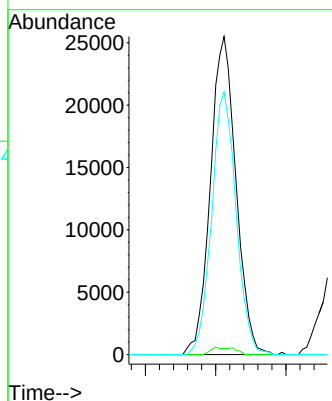
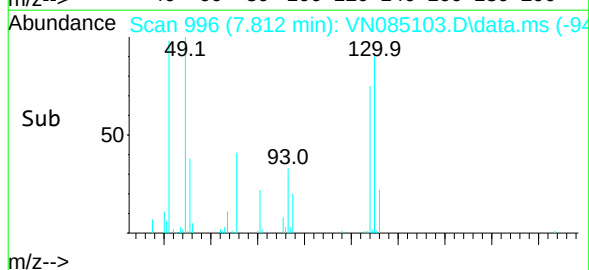
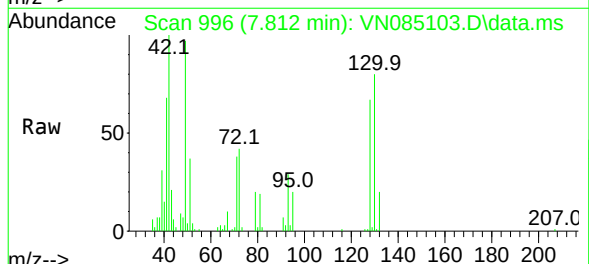
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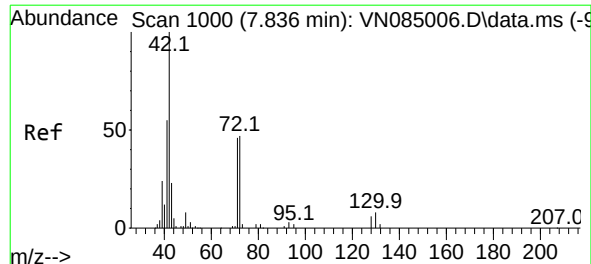
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#28
Bromochloromethane
Concen: 49.500 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN085103.D
Acq: 04 Dec 2024 18:49

Tgt Ion: 49 Resp: 64611
Ion Ratio Lower Upper
49 100
129 2.1 0.0 4.0
130 78.7 60.6 90.8





#29

Tetrahydrofuran

Concen: 292.888 ug/l

RT: 7.835 min Scan# 10

Delta R.T. -0.000 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MSD

Tgt Ion: 42 Resp: 198212

Ion Ratio Lower Upper

42 100

72 46.7 37.0 55.4

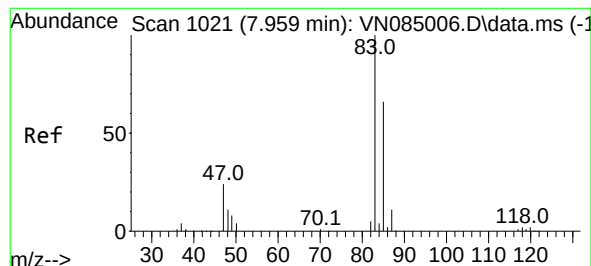
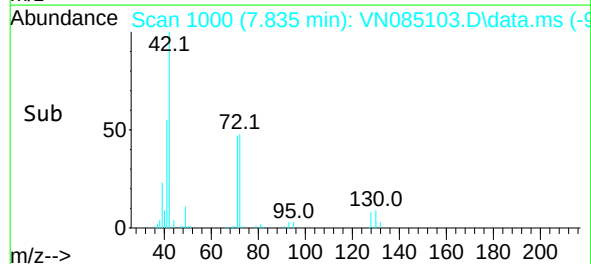
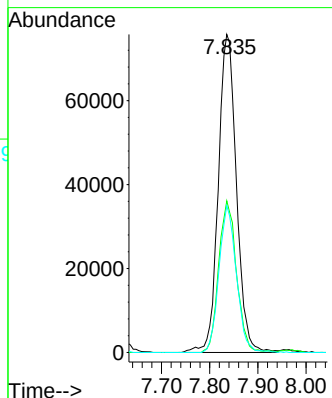
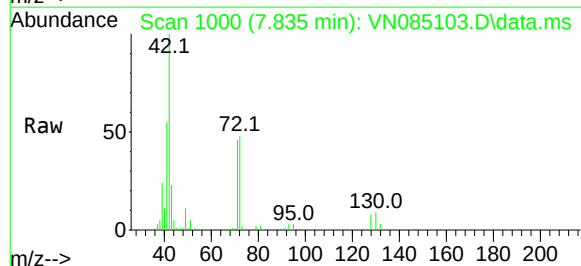
71 44.2 35.0 52.4

Manual Integrations

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Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#30

Chloroform

Concen: 48.769 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN085103.D

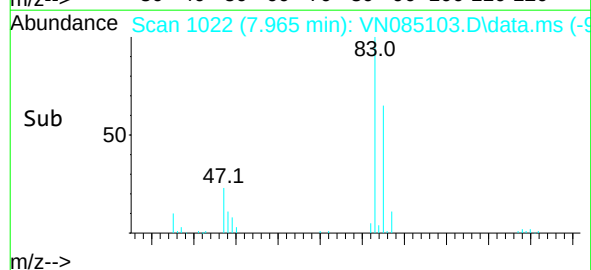
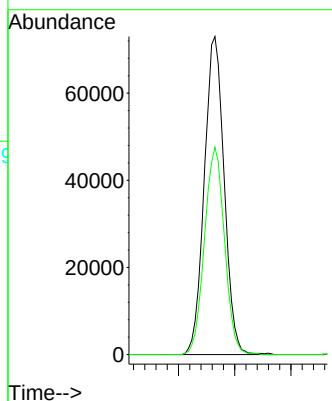
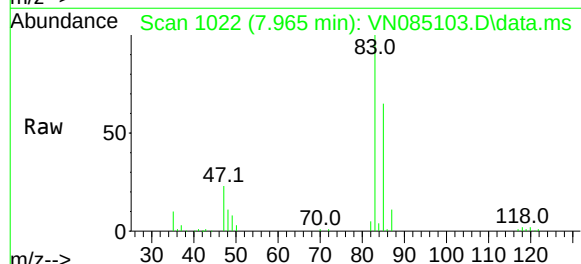
Acq: 04 Dec 2024 18:49

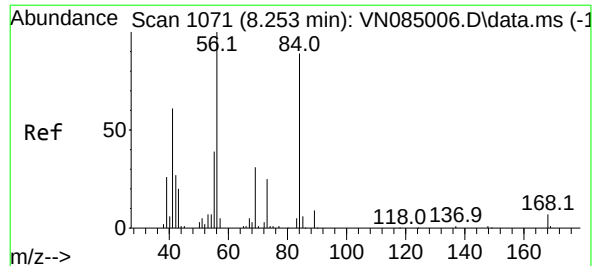
Tgt Ion: 83 Resp: 179383

Ion Ratio Lower Upper

83 100

85 65.2 52.6 78.8





#31

Cyclohexane

Concen: 40.832 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MSD

Tgt Ion: 56 Resp: 124312

Ion Ratio Lower Upper

56 100

69 30.8 24.6 36.8

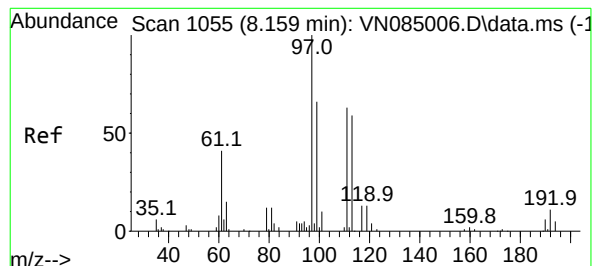
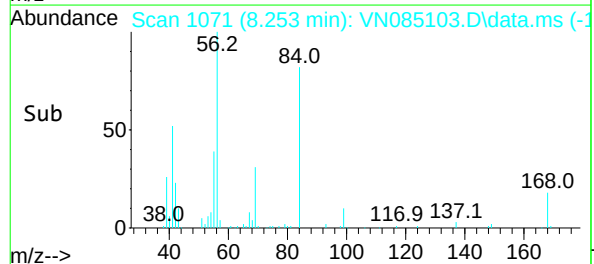
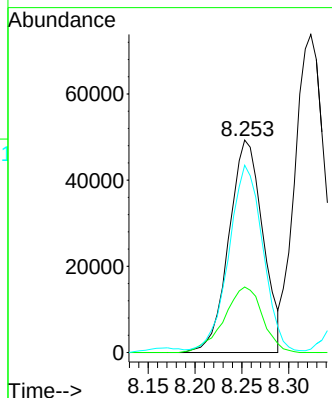
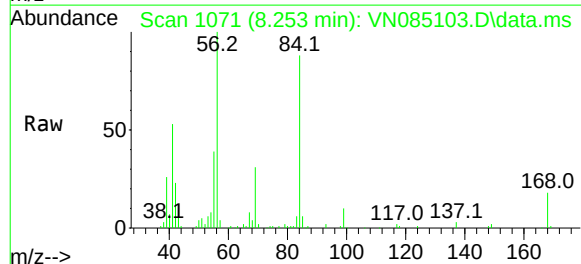
84 86.4 71.4 107.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#32

1,1,1-Trichloroethane

Concen: 48.943 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.012 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

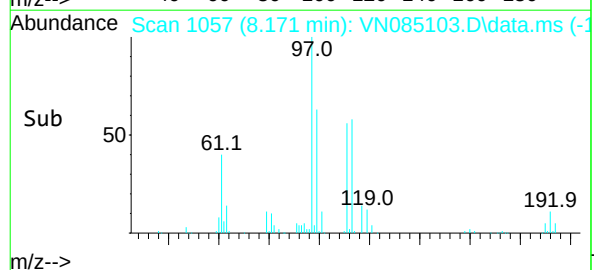
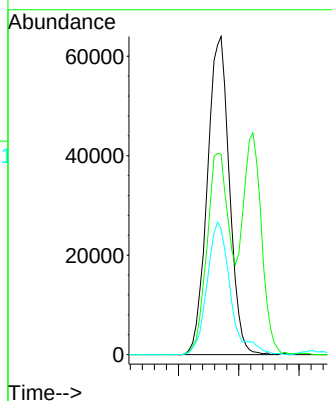
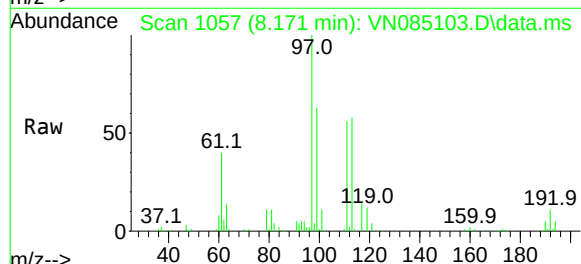
Tgt Ion: 97 Resp: 162679

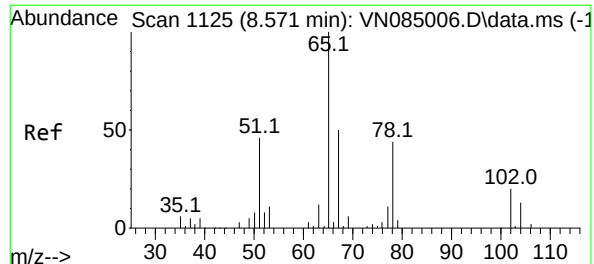
Ion Ratio Lower Upper

97 100

99 65.0 51.0 76.4

61 44.0 36.2 54.2





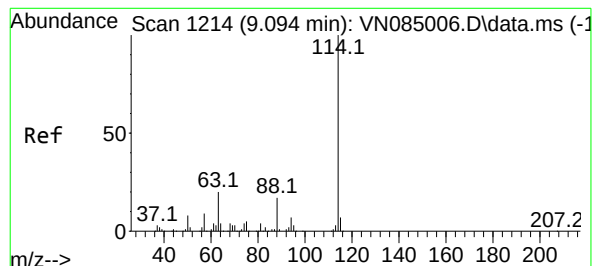
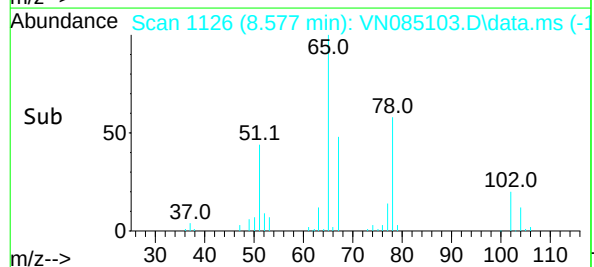
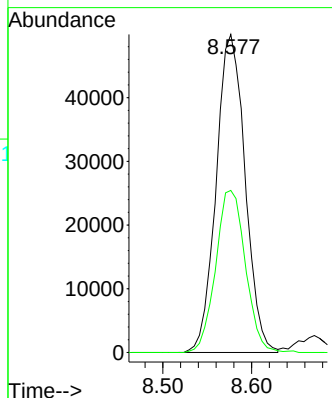
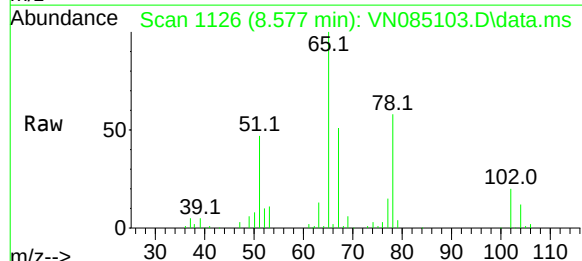
#33
1,2-Dichloroethane-d4
Concen: 49.434 ug/l
RT: 8.577 min Scan# 1125
Delta R.T. 0.006 min
Lab File: VN085103.D
Acq: 04 Dec 2024 18:49

Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-RS-SW001-01MSD

Tgt Ion: 65 Resp: 112982
Ion Ratio Lower Upper
65 100
67 52.4 0.0 105.0

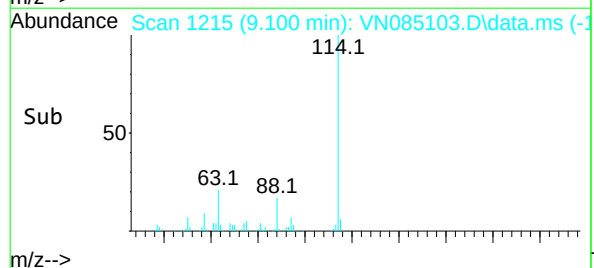
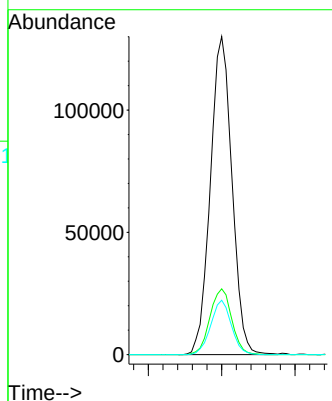
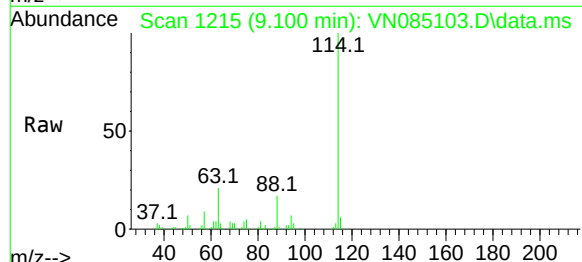
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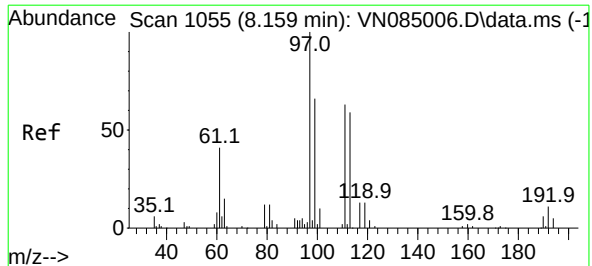
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085103.D
Acq: 04 Dec 2024 18:49

Tgt Ion:114 Resp: 266631
Ion Ratio Lower Upper
114 100
63 20.7 0.0 41.0
88 17.1 0.0 34.8





#35

Dibromofluoromethane

Concen: 51.064 ug/l

RT: 8.165 min Scan# 1055

Delta R.T. 0.006 min

Lab File: VN085103.D

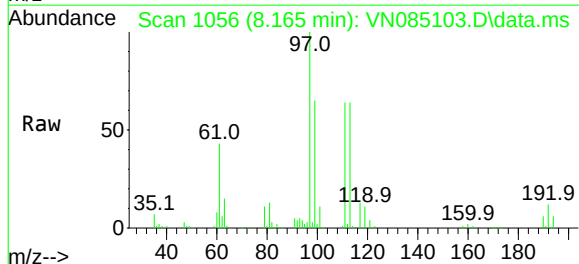
Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

ClientSampleId :

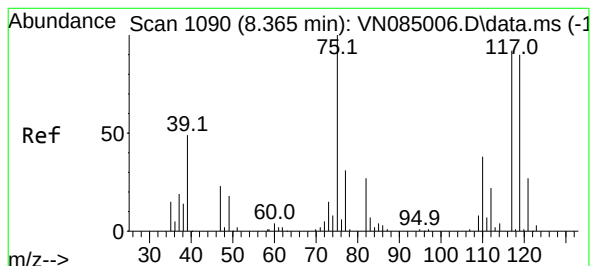
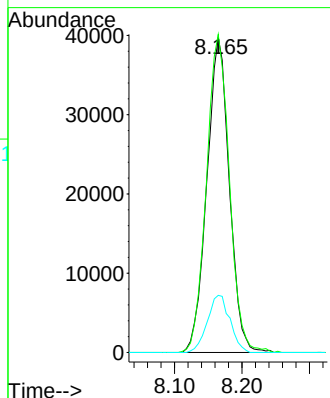
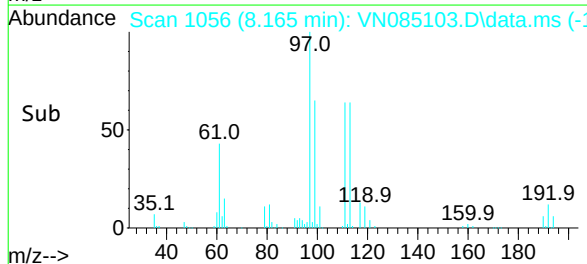
UNIT-51-RS-SW001-01MSD



Tgt Ion:	113	Resp:	91817
Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.0	123.0
192	18.3	14.8	22.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#36

1,1-Dichloropropene

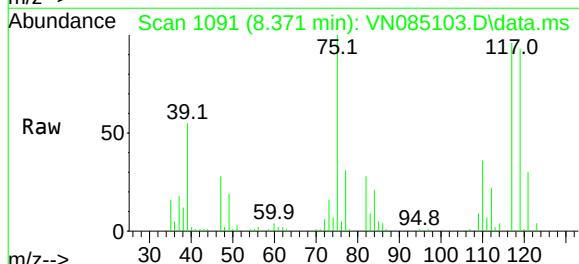
Concen: 46.445 ug/l

RT: 8.371 min Scan# 1091

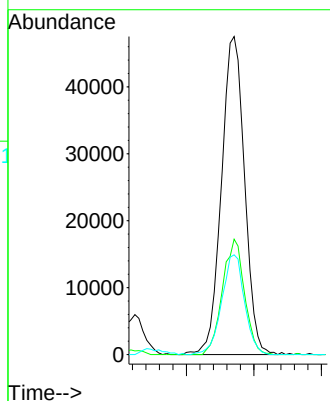
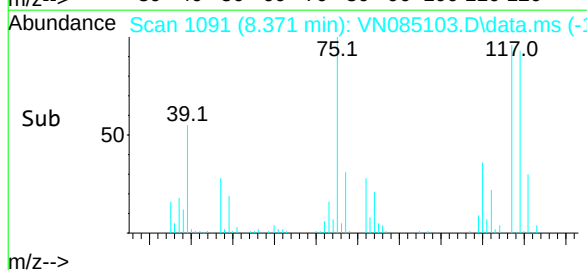
Delta R.T. 0.006 min

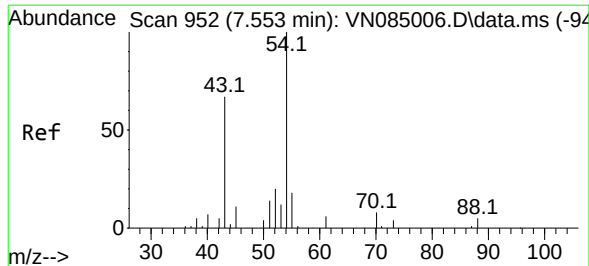
Lab File: VN085103.D

Acq: 04 Dec 2024 18:49



Tgt Ion:	75	Resp:	113116
Ion	Ratio	Lower	Upper
75	100		
110	34.5	17.2	51.6
77	30.9	24.2	36.4





#37

Ethyl Acetate

Concen: 54.765 ug/l

RT: 7.559 min Scan# 95

Delta R.T. 0.006 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

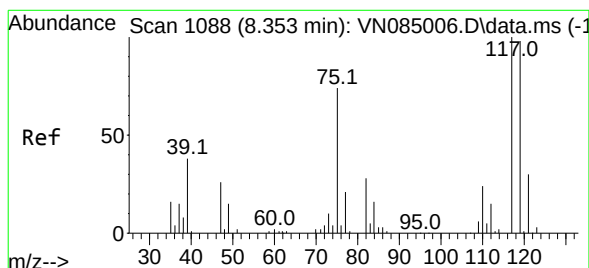
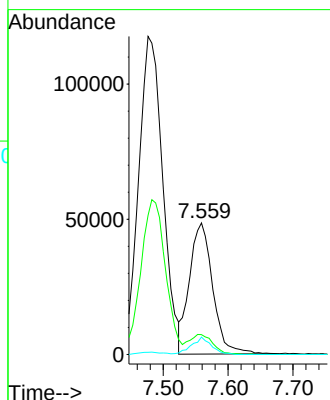
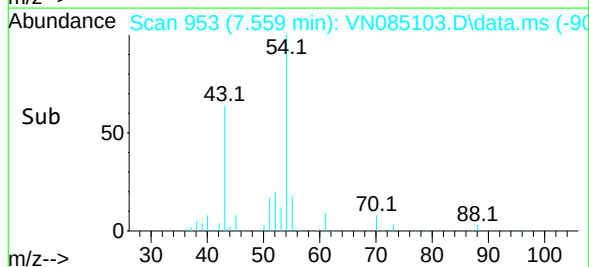
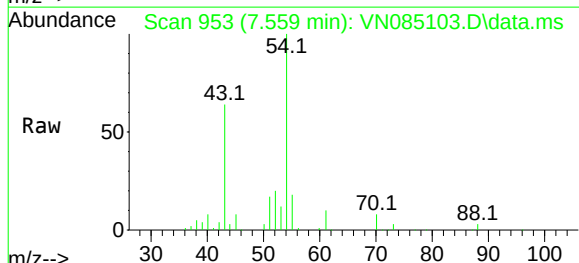
ClientSampleId :

UNIT-51-RS-SW001-01MSD

Tgt Ion:	43	Resp:	121256
Ion	Ratio	Lower	Upper
43	100		
61	14.3	11.7	17.5
70	11.2	9.3	13.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#38

Carbon Tetrachloride

Concen: 50.086 ug/l

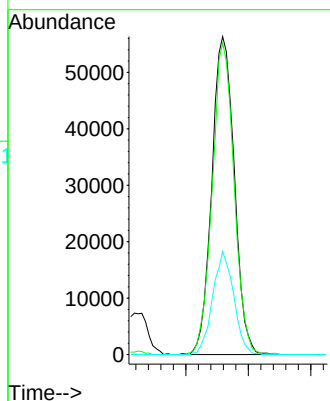
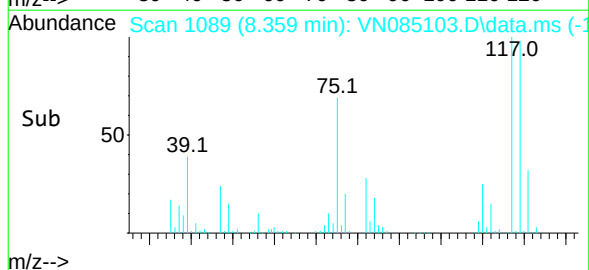
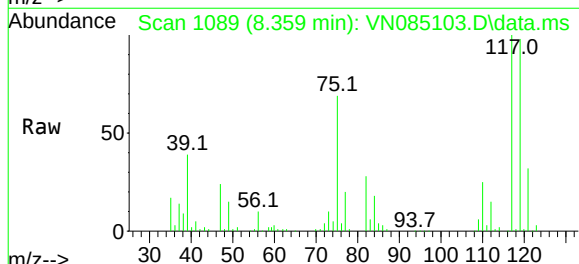
RT: 8.359 min Scan# 1089

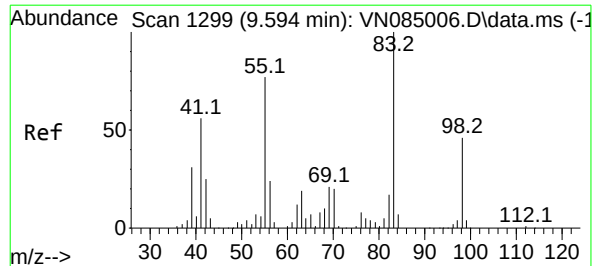
Delta R.T. 0.006 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Tgt Ion:	117	Resp:	140805
Ion	Ratio	Lower	Upper
117	100		
119	98.0	78.6	117.8
121	32.4	24.2	36.2





#39

Methylcyclohexane

Concen: 46.894 ug/l

RT: 9.600 min Scan# 13

Delta R.T. 0.006 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

ClientSampleId :

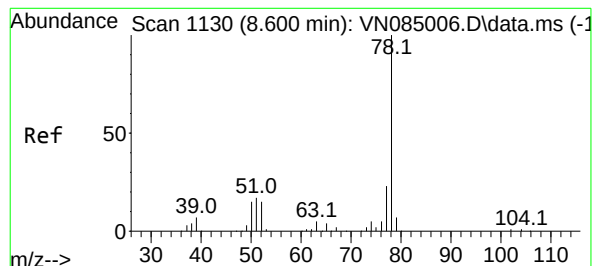
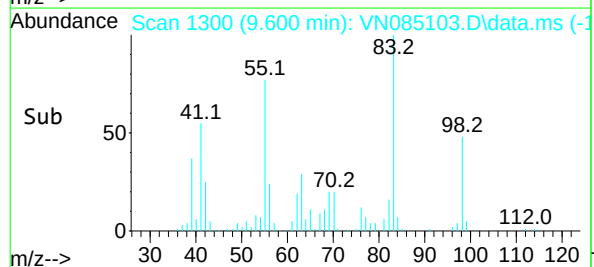
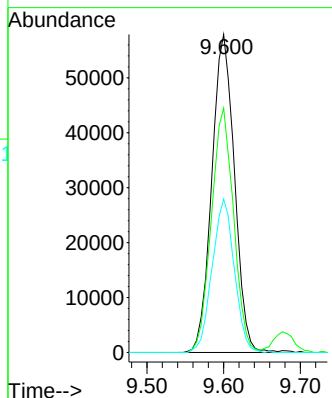
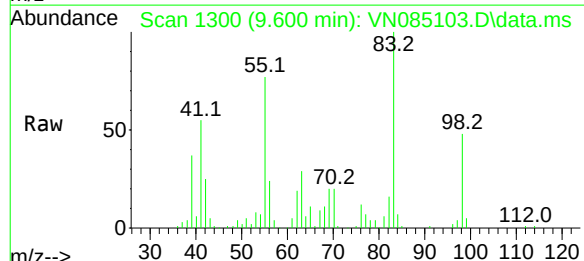
UNIT-51-RS-SW001-01MSD

Tgt Ion:	83	Resp:	118680
Ion	Ratio	Lower	Upper
83	100		
55	76.8	61.8	92.6
98	48.2	37.0	55.6

Manual Integrations
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Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#40

Benzene

Concen: 47.701 ug/l

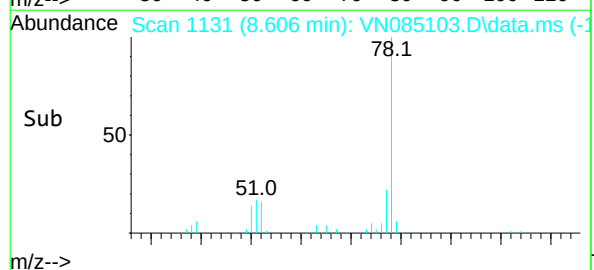
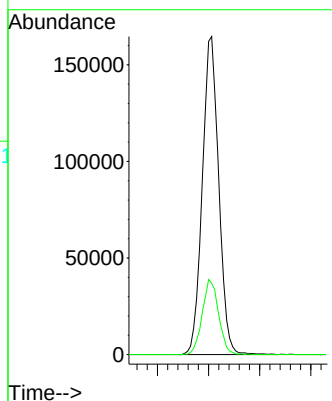
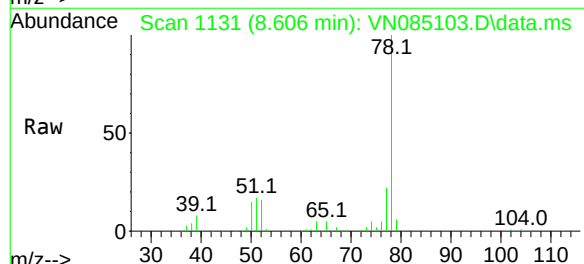
RT: 8.606 min Scan# 1131

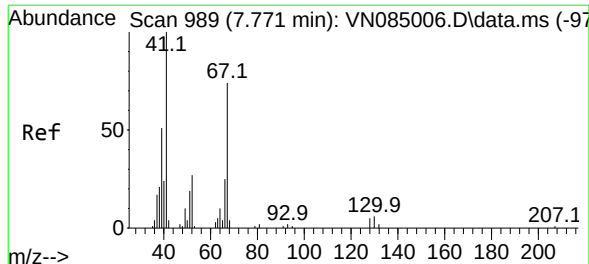
Delta R.T. 0.006 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Tgt Ion:	78	Resp:	367439
Ion	Ratio	Lower	Upper
78	100		
77	22.4	18.5	27.7





#41

Methacrylonitrile

Concen: 54.960 ug/l

RT: 7.777 min Scan# 99

Delta R.T. 0.006 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

ClientSampleId :

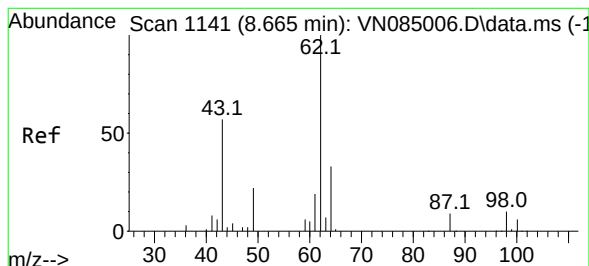
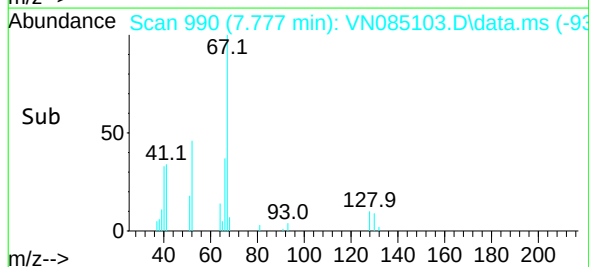
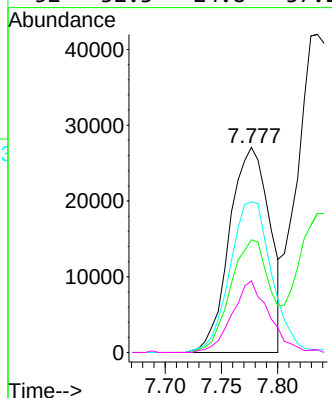
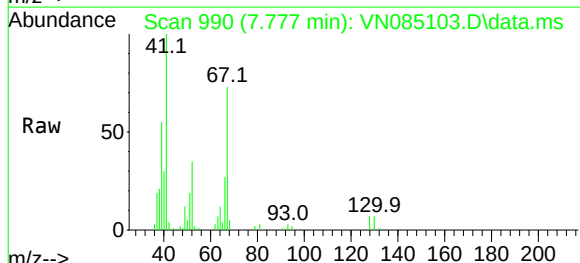
UNIT-51-RS-SW001-01MSD

Tgt Ion:	41	Resp:	67375
Ion	Ratio	Lower	Upper
41	100		
39	53.1	42.6	63.8
67	76.8	59.9	89.9
52	32.3	24.8	37.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#42

1,2-Dichloroethane

Concen: 48.429 ug/l

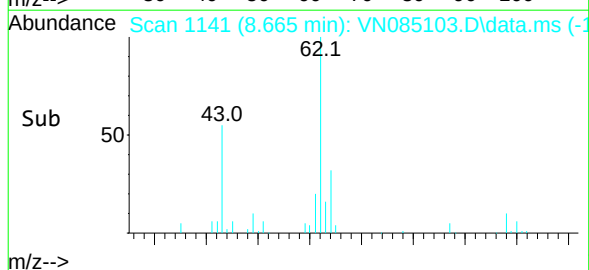
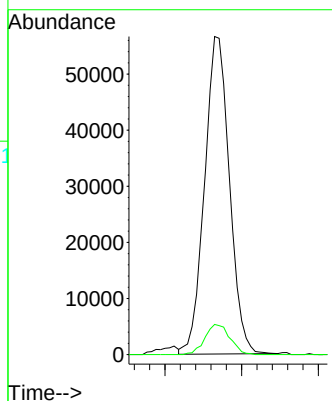
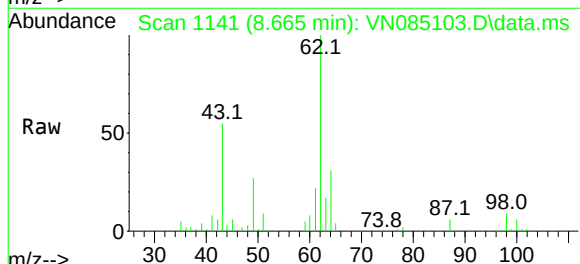
RT: 8.665 min Scan# 1141

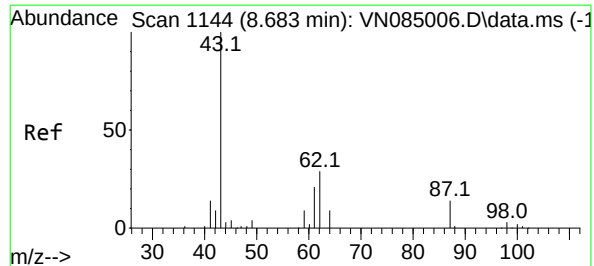
Delta R.T. -0.000 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Tgt Ion:	62	Resp:	127622
Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	18.2





#43

Isopropyl Acetate

Concen: 48.989 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

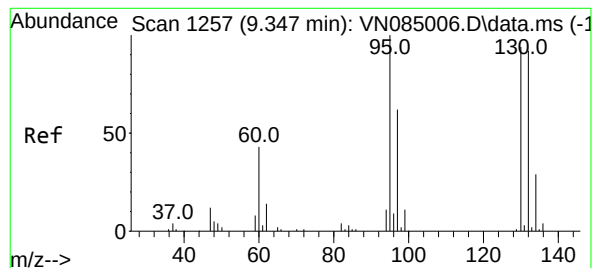
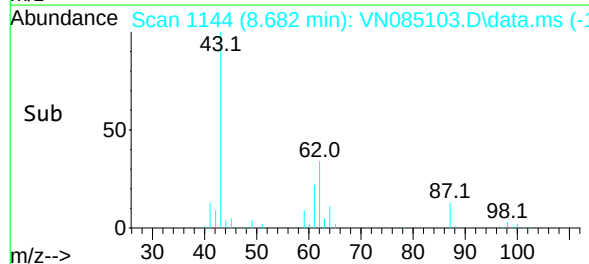
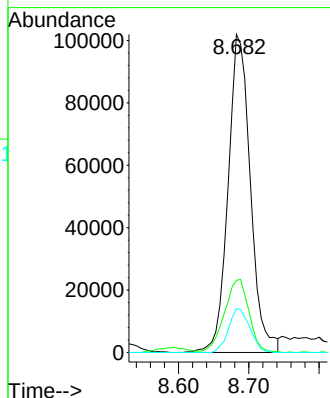
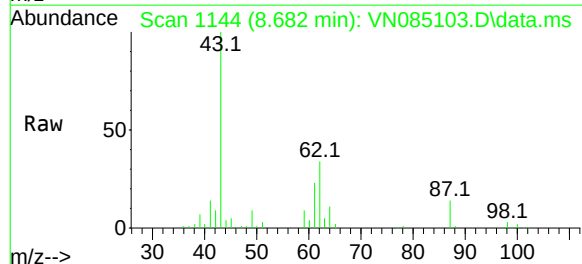
ClientSampleId :

UNIT-51-RS-SW001-01MSD

Tgt Ion:	43	Resp:	225303
Ion	Ratio	Lower	Upper
43	100		
61	25.2	20.6	30.8
87	13.1	11.0	16.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#44

Trichloroethene

Concen: 48.368 ug/l

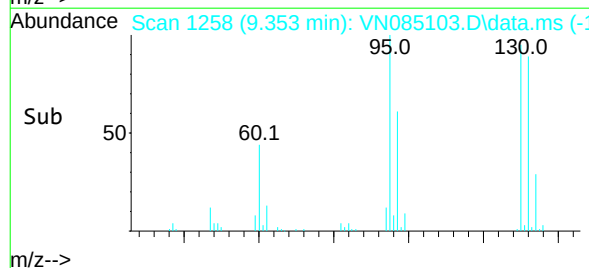
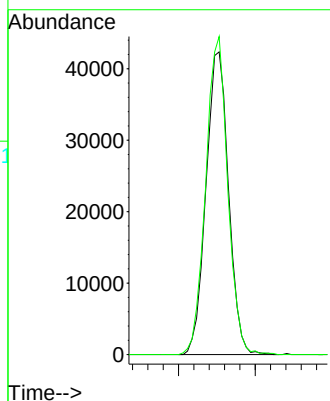
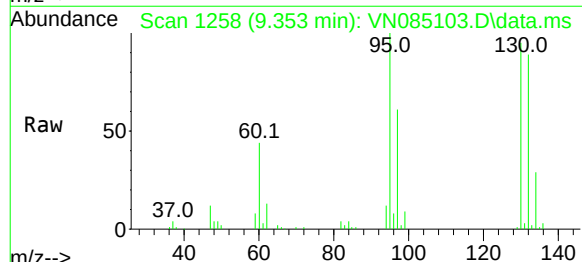
RT: 9.353 min Scan# 1258

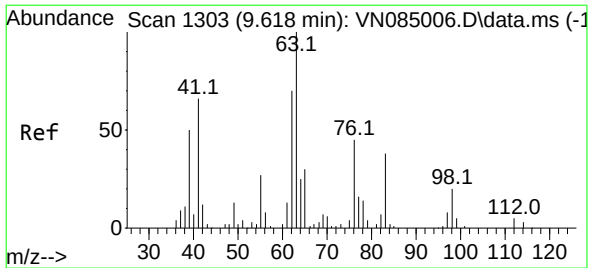
Delta R.T. 0.006 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Tgt Ion:	130	Resp:	86584
Ion	Ratio	Lower	Upper
130	100		
95	105.1	0.0	213.4





#45

1,2-Dichloropropane

Concen: 48.891 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MSD

Tgt Ion: 63 Resp: 92759

Ion Ratio Lower Upper

63 100

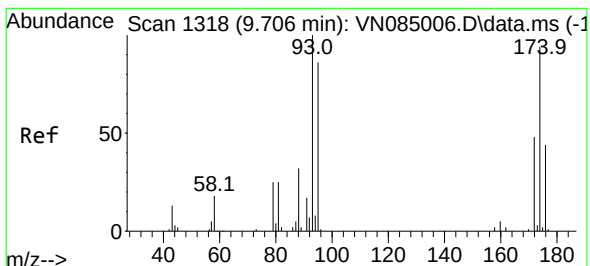
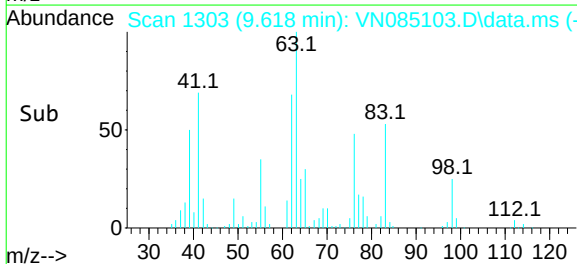
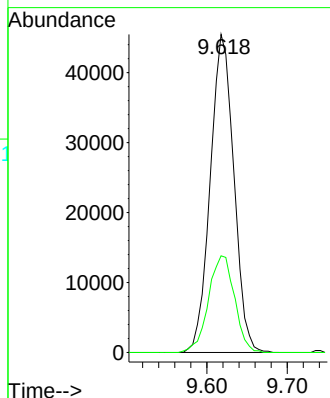
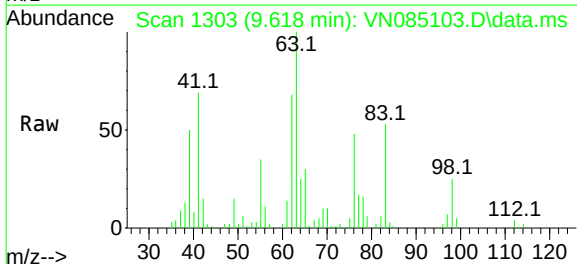
65 30.4 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#46

Dibromomethane

Concen: 49.679 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

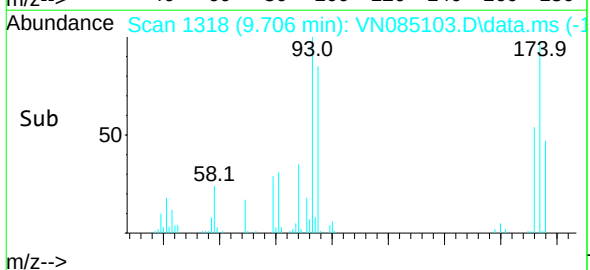
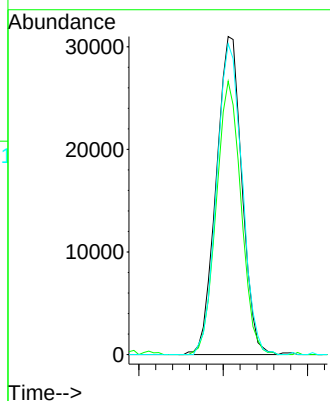
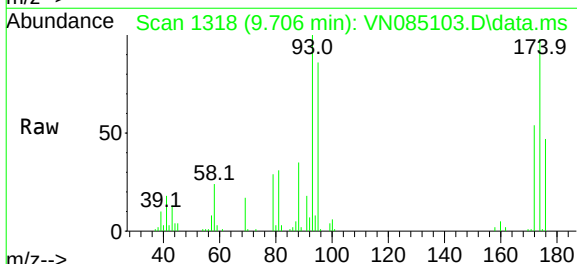
Tgt Ion: 93 Resp: 65493

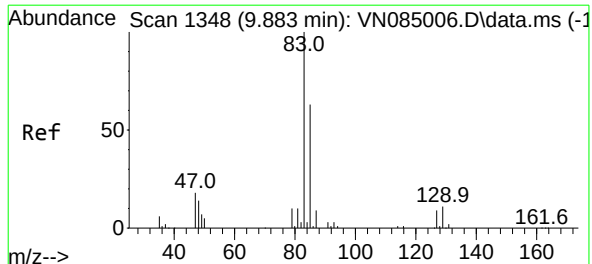
Ion Ratio Lower Upper

93 100

95 83.0 66.2 99.4

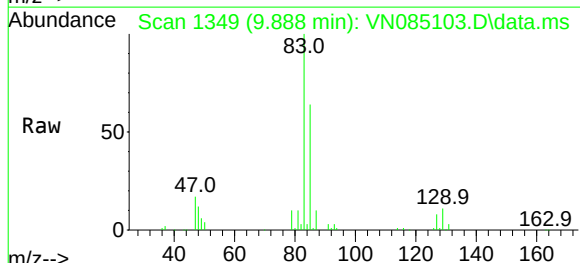
174 96.8 74.9 112.3





#47
Bromodichloromethane
Concen: 51.952 ug/l
RT: 9.888 min Scan# 1348
Delta R.T. 0.006 min
Lab File: VN085103.D
Acq: 04 Dec 2024 18:49

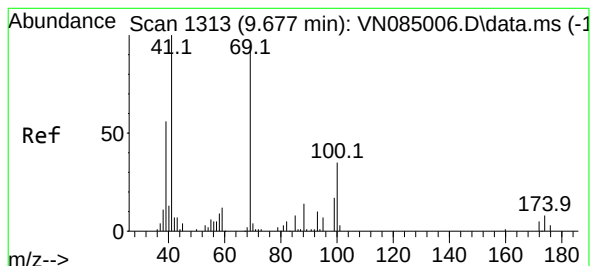
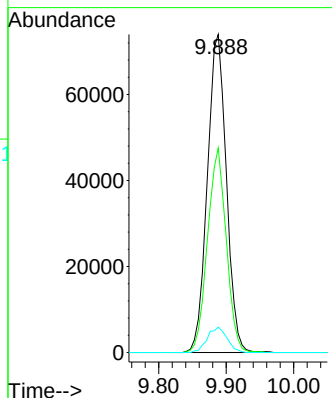
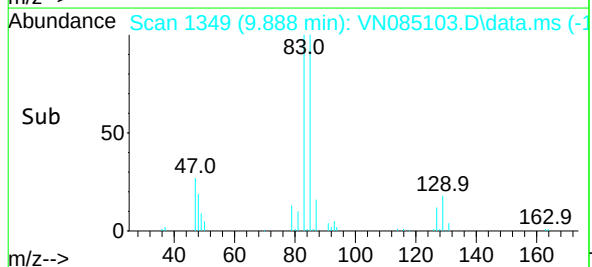
Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-RS-SW001-01MSD



Tgt Ion: 83 Resp: 145160
Ion Ratio Lower Upper
83 100
85 64.3 50.5 75.7
127 8.0 7.1 10.7

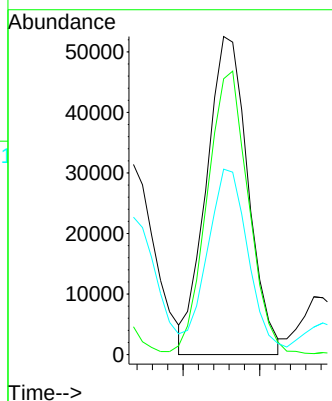
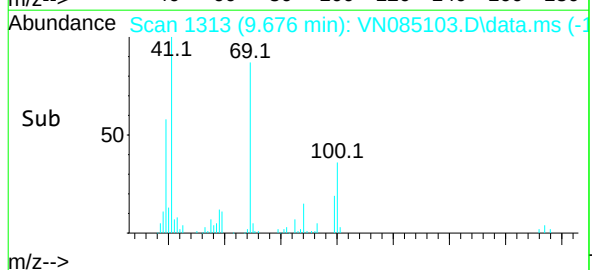
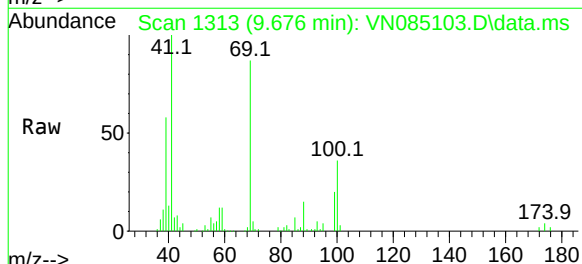
Manual Integrations
APPROVED

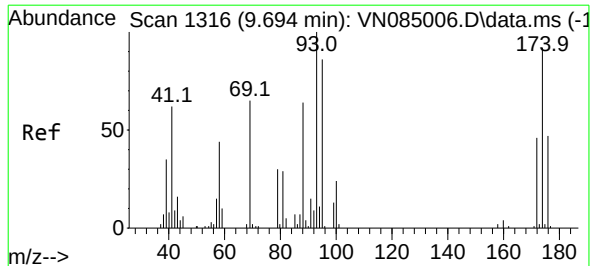
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#48
Methyl methacrylate
Concen: 57.985 ug/l
RT: 9.676 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085103.D
Acq: 04 Dec 2024 18:49

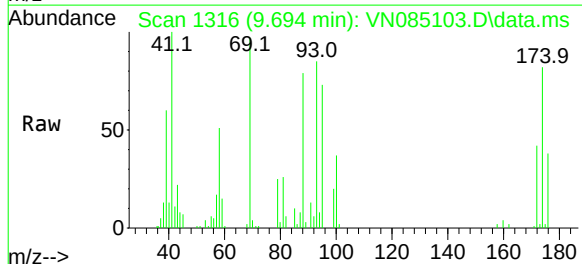
Tgt Ion: 41 Resp: 99236
Ion Ratio Lower Upper
41 100
69 87.9 73.2 109.8
39 58.0 46.2 69.4





#49
1,4-Dioxane
Concen: 1240.839 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. -0.000 min
Lab File: VN085103.D
Acq: 04 Dec 2024 18:49

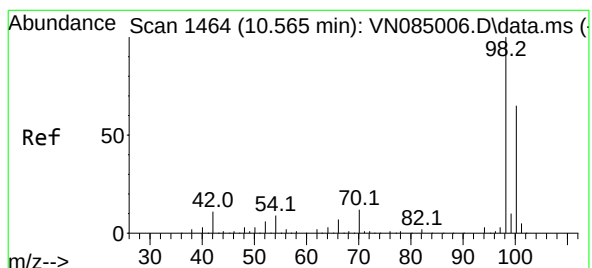
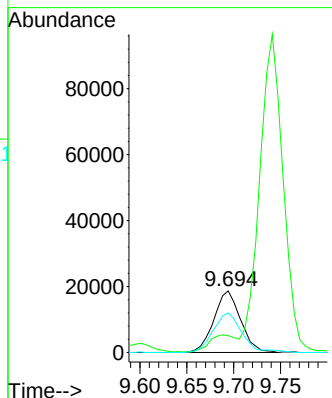
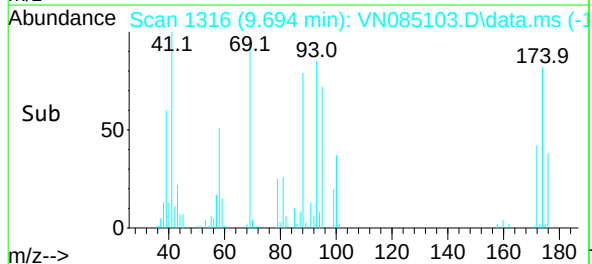
Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-RS-SW001-01MSD



Tgt Ion: 88 Resp: 36827
Ion Ratio Lower Upper
88 100
43 29.3 16.7 25.1#
58 69.5 56.5 84.7

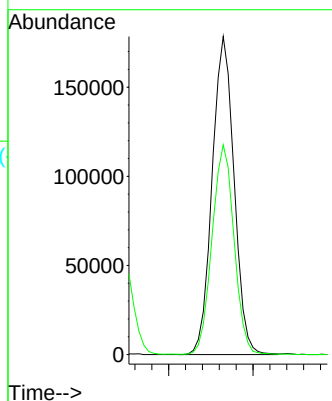
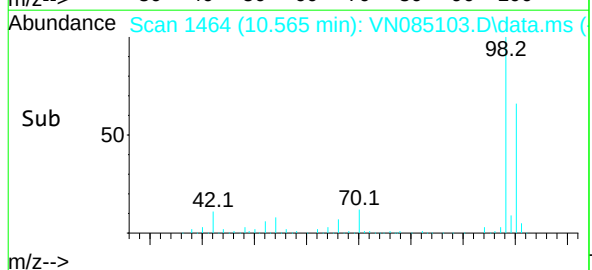
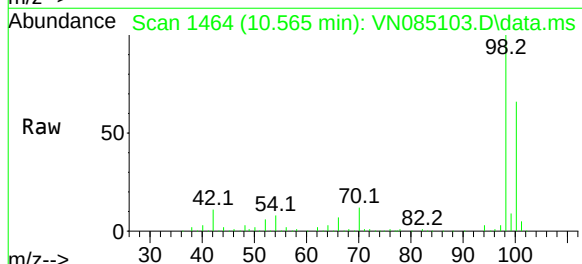
Manual Integrations
APPROVED

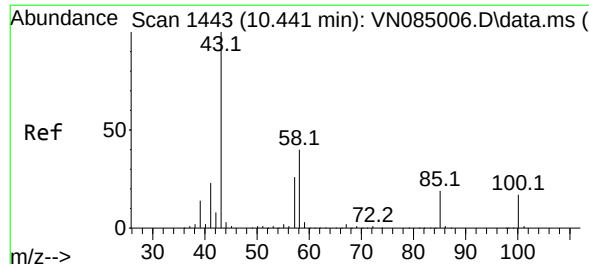
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#50
Toluene-d8
Concen: 49.953 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085103.D
Acq: 04 Dec 2024 18:49

Tgt Ion: 98 Resp: 321887
Ion Ratio Lower Upper
98 100
100 66.3 52.5 78.7





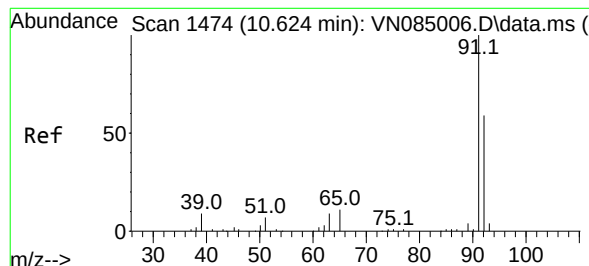
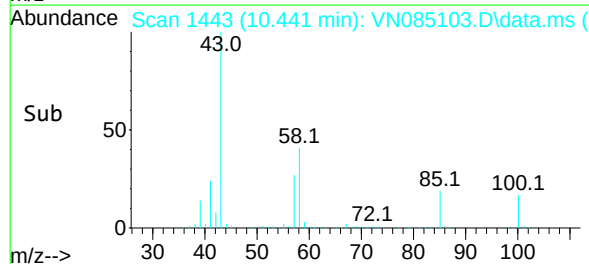
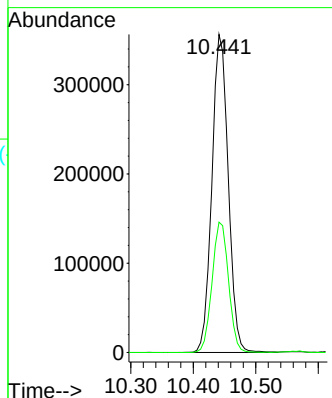
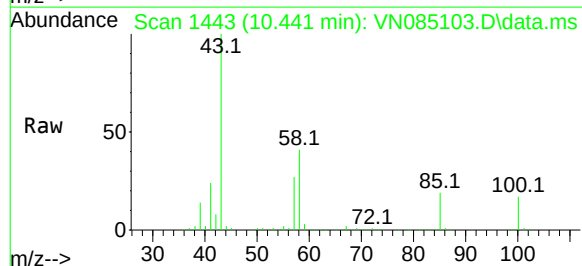
#51
4-Methyl-2-Pentanone
Concen: 308.617 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085103.D
Acq: 04 Dec 2024 18:49

Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-RS-SW001-01MSD

Tgt Ion: 43 Resp: 648294
Ion Ratio Lower Upper
43 100
58 41.2 32.1 48.1

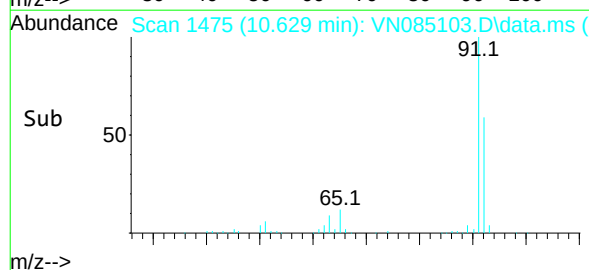
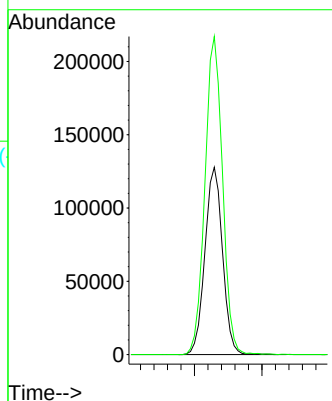
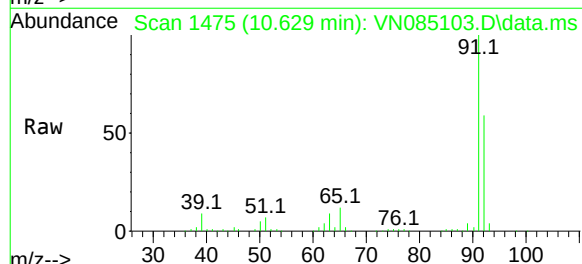
Manual Integrations
APPROVED

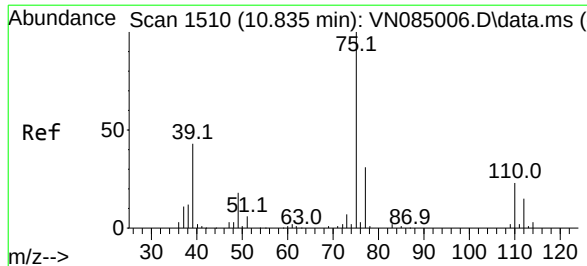
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#52
Toluene
Concen: 50.803 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN085103.D
Acq: 04 Dec 2024 18:49

Tgt Ion: 92 Resp: 231668
Ion Ratio Lower Upper
92 100
91 169.7 136.7 205.1





#53

t-1,3-Dichloropropene

Concen: 51.061 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. -0.000 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MSD

Tgt Ion: 75 Resp: 143034

Ion Ratio Lower Upper

75 100

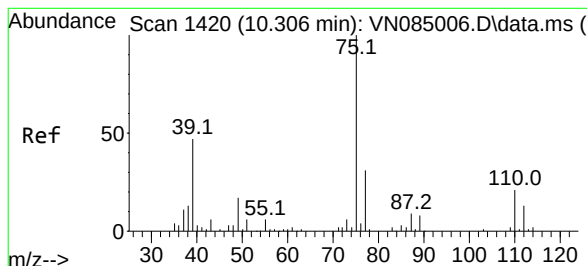
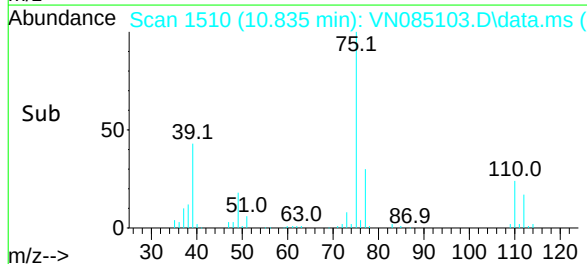
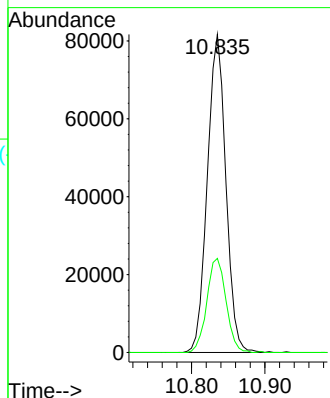
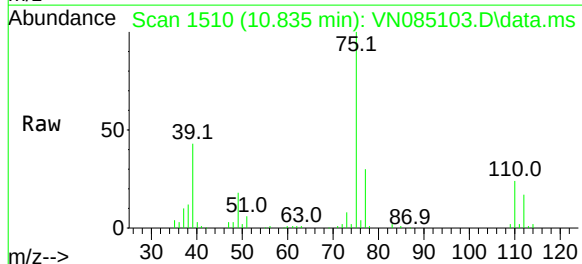
77 29.6 25.0 37.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#54

cis-1,3-Dichloropropene

Concen: 49.273 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. 0.006 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

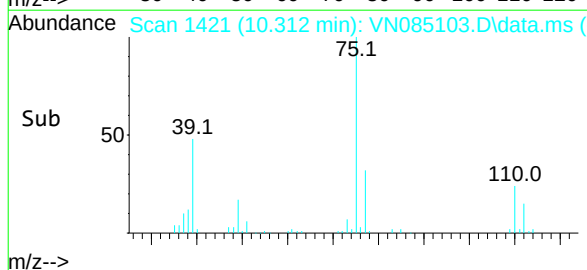
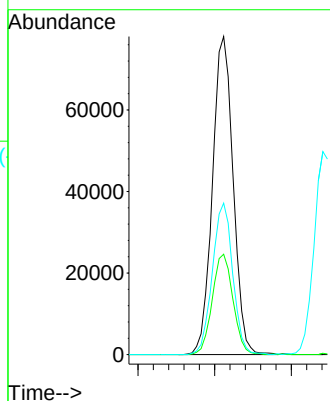
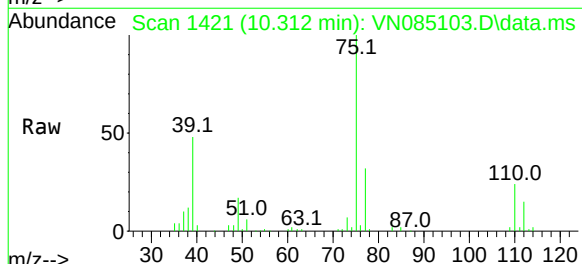
Tgt Ion: 75 Resp: 146430

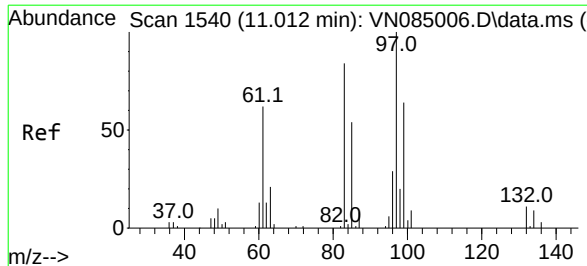
Ion Ratio Lower Upper

75 100

77 31.6 25.0 37.4

39 47.6 37.6 56.4





#55

1,1,2-Trichloroethane

Concen: 55.099 ug/l

RT: 11.018 min Scan# 1540

Delta R.T. 0.006 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MSD

Tgt Ion: 97 Resp: 93588

Ion Ratio Lower Upper

97 100

83 86.8 67.4 101.2

85 53.4 43.1 64.7

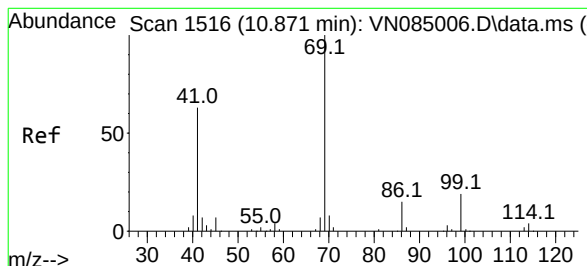
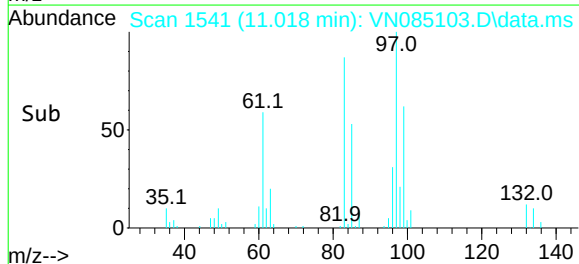
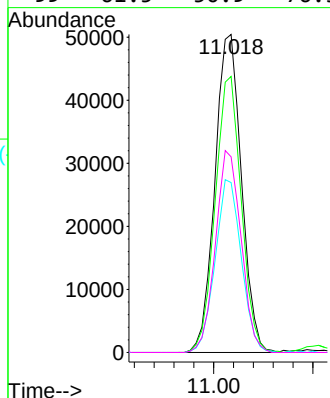
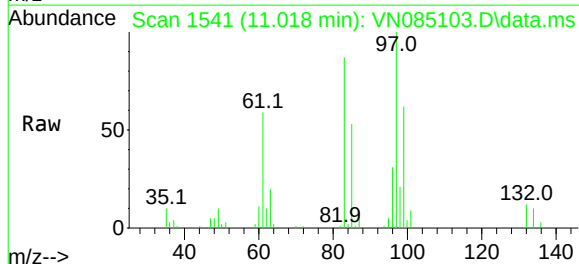
99 61.5 50.9 76.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#56

Ethyl methacrylate

Concen: 60.707 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

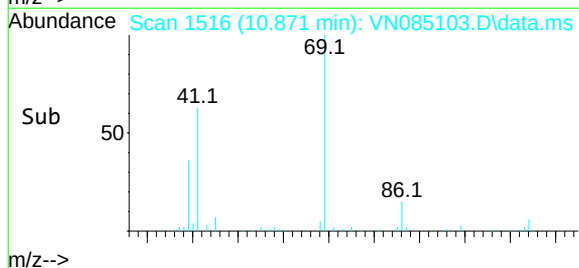
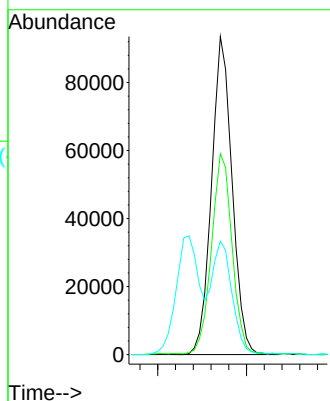
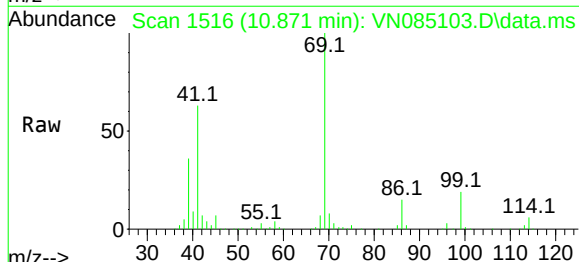
Tgt Ion: 69 Resp: 150674

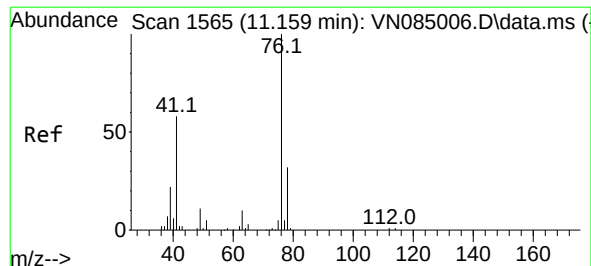
Ion Ratio Lower Upper

69 100

41 62.7 50.0 75.0

39 35.1 27.0 40.6





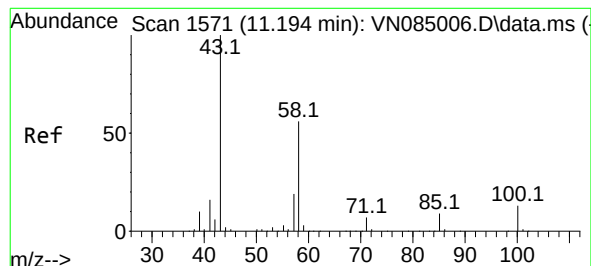
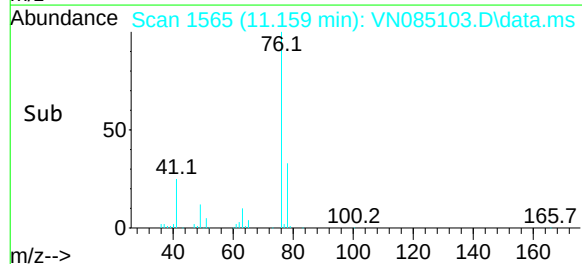
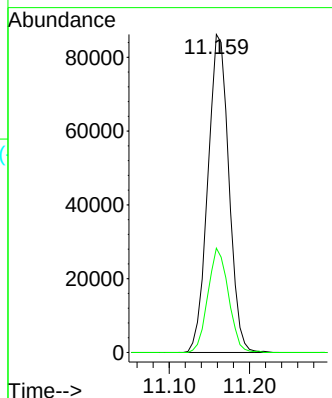
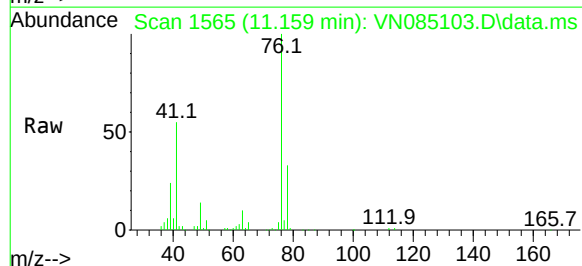
#57
1,3-Dichloropropane
Concen: 52.392 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.000 min
Lab File: VN085103.D
Acq: 04 Dec 2024 18:49

Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-RS-SW001-01MSD

Tgt Ion: 76 Resp: 156621
Ion Ratio Lower Upper
76 100
78 32.1 26.1 39.1

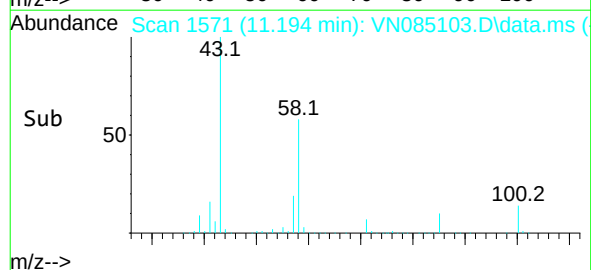
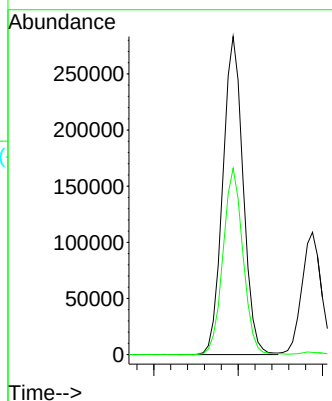
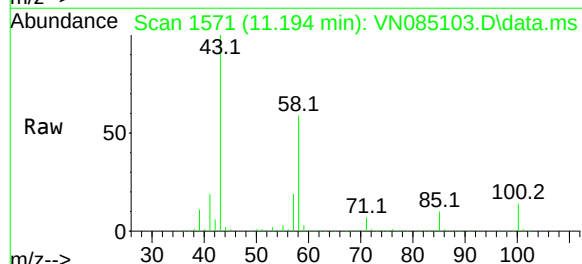
Manual Integrations
APPROVED

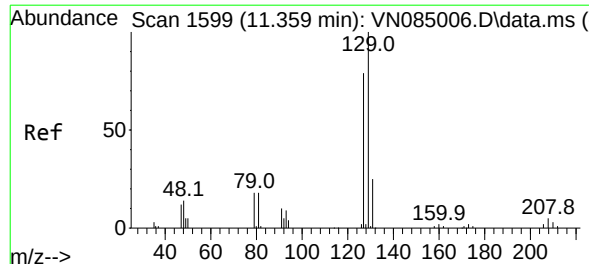
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#59
2-Hexanone
Concen: 301.801 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN085103.D
Acq: 04 Dec 2024 18:49

Tgt Ion: 43 Resp: 474154
Ion Ratio Lower Upper
43 100
58 57.4 28.3 85.0





#60

Dibromochloromethane

Concen: 54.302 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. -0.000 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MSD

Tgt Ion:129 Resp: 112723

Ion Ratio Lower Upper

129 100

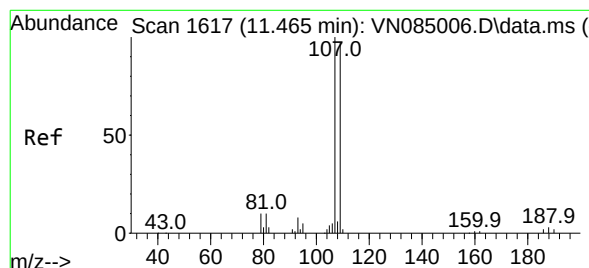
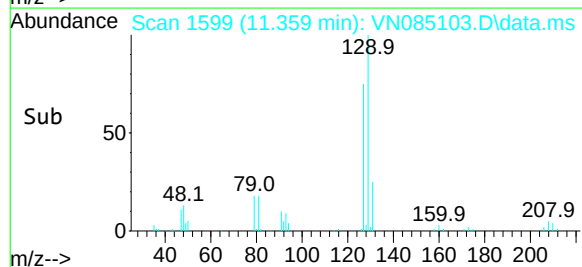
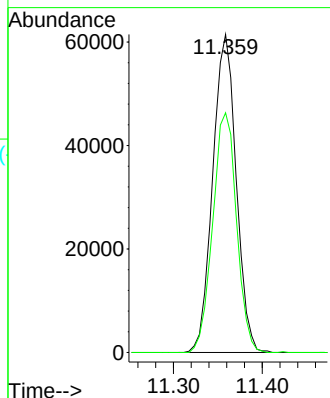
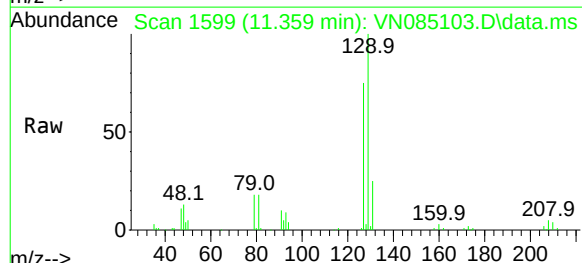
127 76.5 39.2 117.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#61

1,2-Dibromoethane

Concen: 52.528 ug/l

RT: 11.465 min Scan# 1617

Delta R.T. -0.000 min

Lab File: VN085103.D

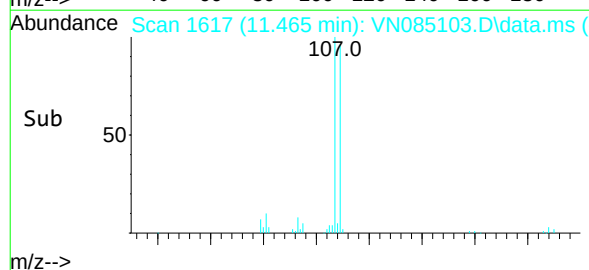
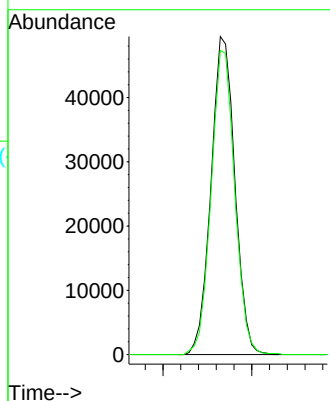
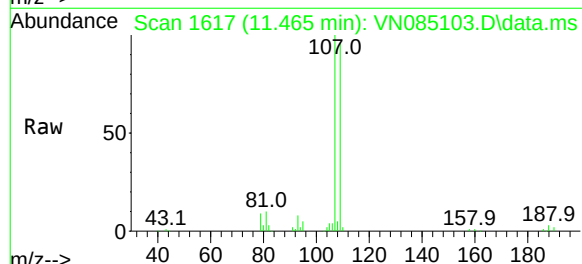
Acq: 04 Dec 2024 18:49

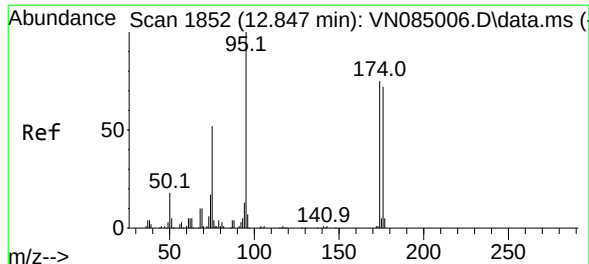
Tgt Ion:107 Resp: 92337

Ion Ratio Lower Upper

107 100

109 94.6 76.1 114.1





#62

4-Bromofluorobenzene

Concen: 51.214 ug/l

RT: 12.847 min Scan# 18

Delta R.T. -0.000 min

Lab File: VN085103.D

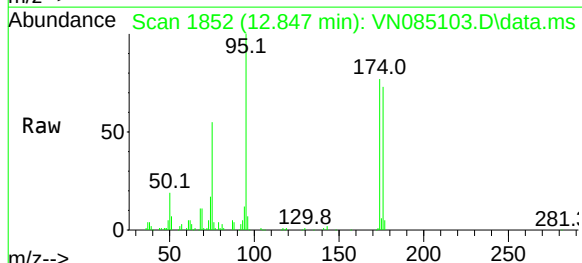
Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

ClientSampleId :

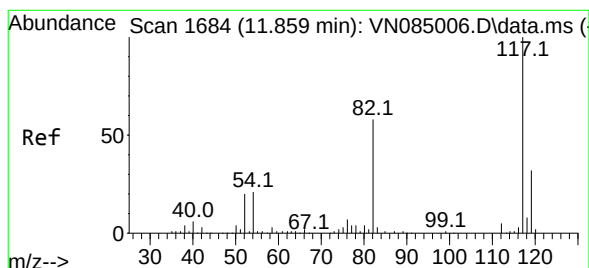
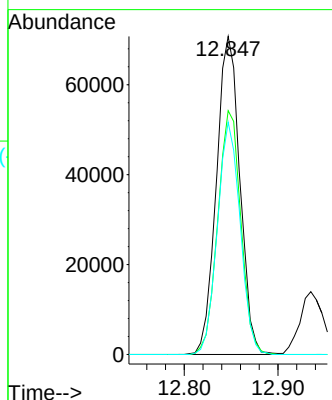
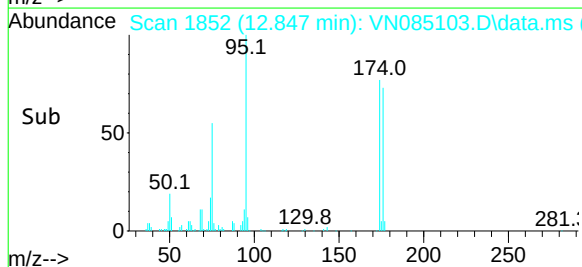
UNIT-51-RS-SW001-01MSD



Tgt Ion:	95	Resp:	123416
Ion	Ratio	Lower	Upper
95	100		
174	75.1	0.0	146.6
176	70.5	0.0	141.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#63

Chlorobenzene-d5

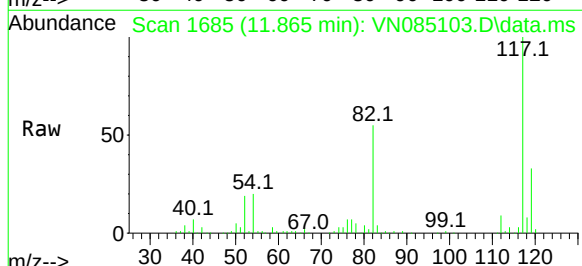
Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

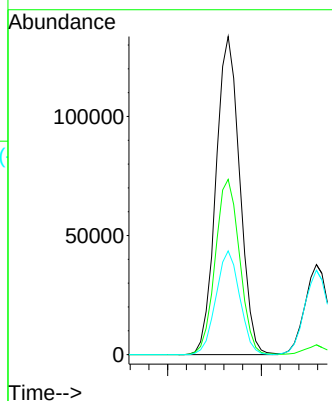
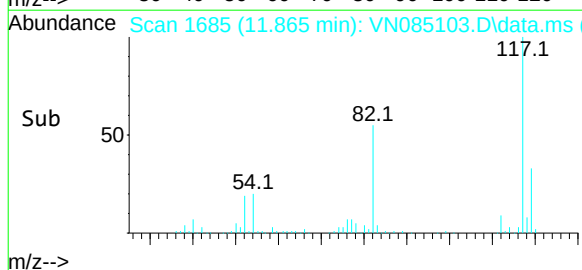
Delta R.T. 0.006 min

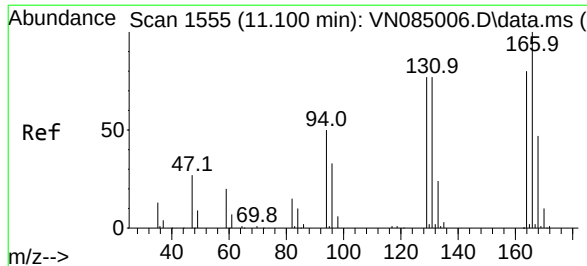
Lab File: VN085103.D

Acq: 04 Dec 2024 18:49



Tgt Ion:	117	Resp:	236037
Ion	Ratio	Lower	Upper
117	100		
82	55.1	46.0	69.0
119	32.6	25.6	38.4





#64

Tetrachloroethene

Concen: 44.164 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN085103.D

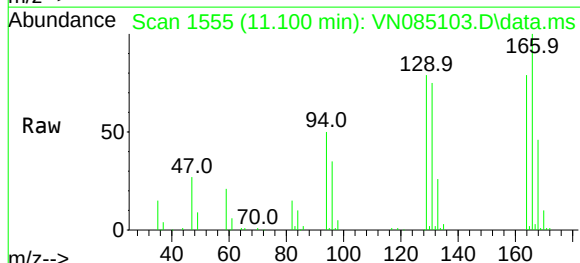
Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MSD



Tgt Ion:164 Resp: 70242

Ion Ratio Lower Upper

164 100

166 126.8 100.6 151.0

129 99.8 77.7 116.5

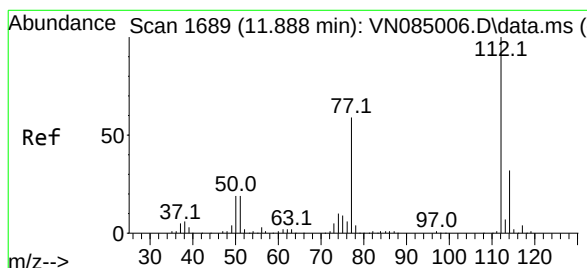
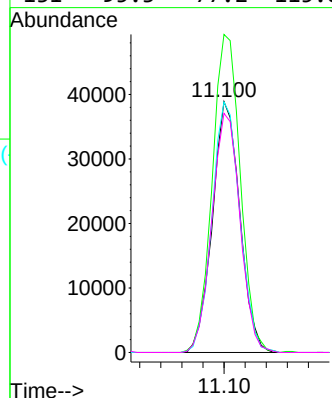
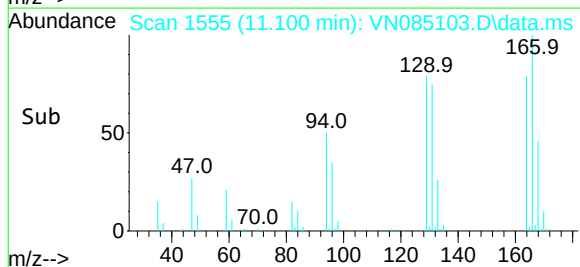
131 95.3 77.2 115.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#65

Chlorobenzene

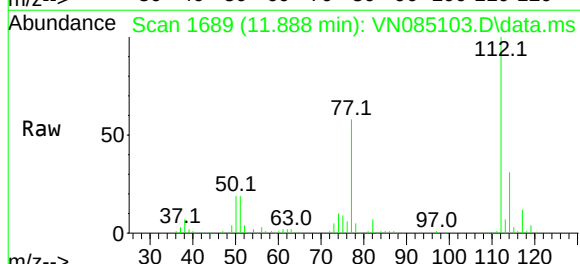
Concen: 47.815 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. -0.000 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

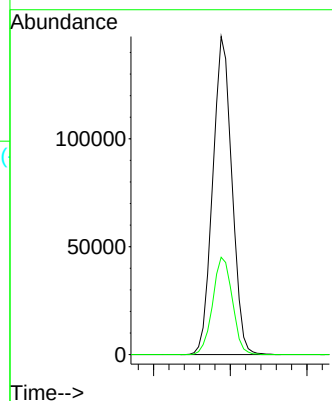
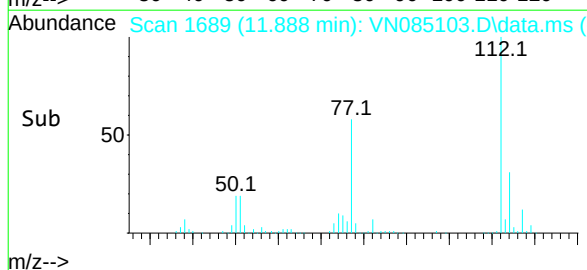


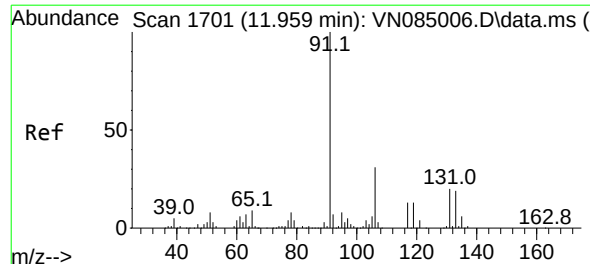
Tgt Ion:112 Resp: 255953

Ion Ratio Lower Upper

112 100

114 30.6 25.8 38.6





#66

1,1,1,2-Tetrachloroethane

Concen: 50.775 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

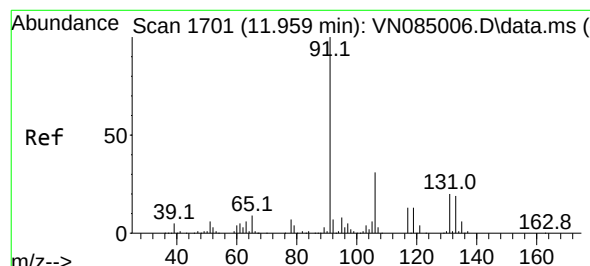
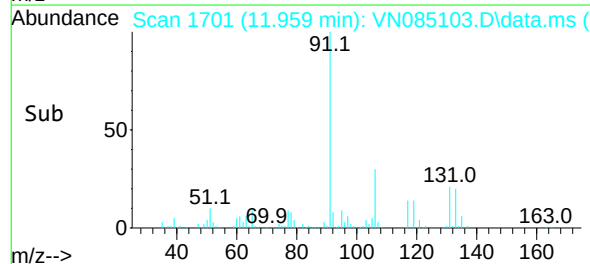
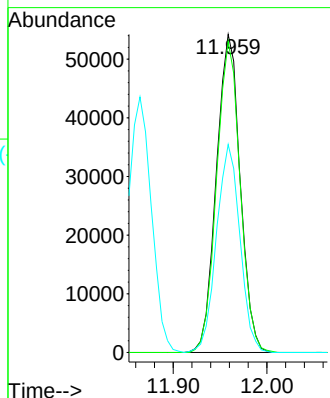
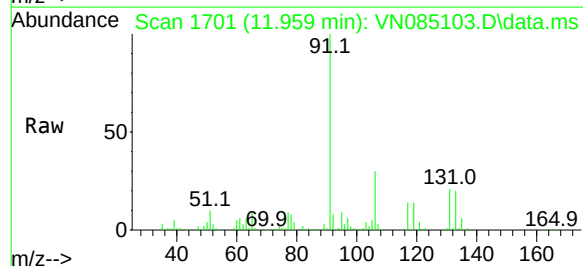
ClientSampleId :

UNIT-51-RS-SW001-01MSD

Tgt Ion:	131	Resp:	95698
Ion Ratio	Lower	Upper	
131	100		
133	96.6	47.8	143.4
119	64.6	32.1	96.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#67

Ethyl Benzene

Concen: 51.188 ug/l

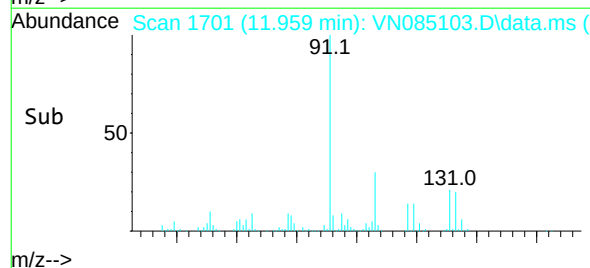
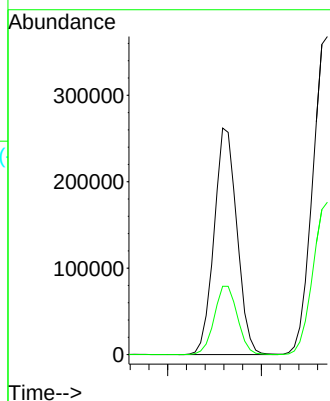
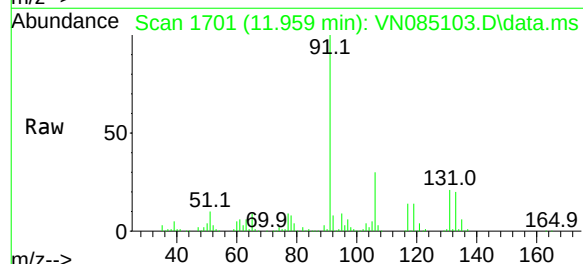
RT: 11.959 min Scan# 1701

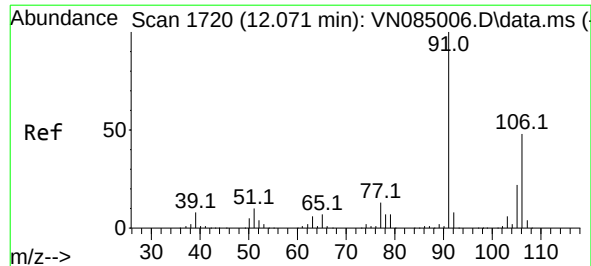
Delta R.T. -0.000 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Tgt Ion:	91	Resp:	444549
Ion Ratio	Lower	Upper	
91	100		
106	30.2	24.7	37.1





#68

m/p-Xylenes

Concen: 103.293 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MSD

Tgt Ion:106 Resp: 341529

Ion Ratio Lower Upper

106 100

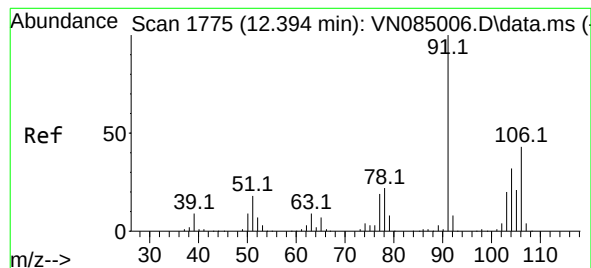
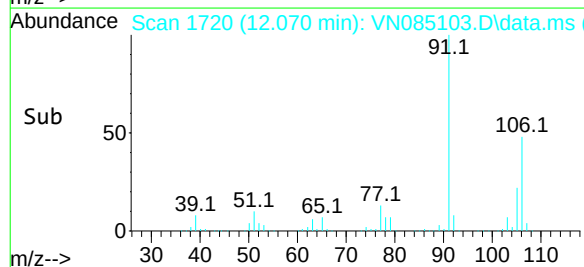
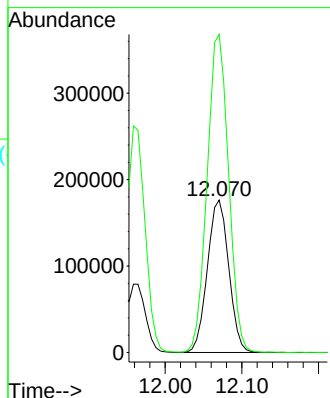
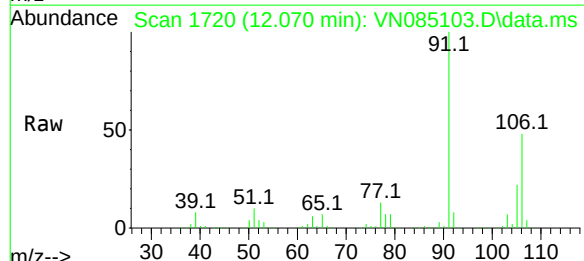
91 209.7 168.0 252.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#69

o-Xylene

Concen: 53.321 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VN085103.D

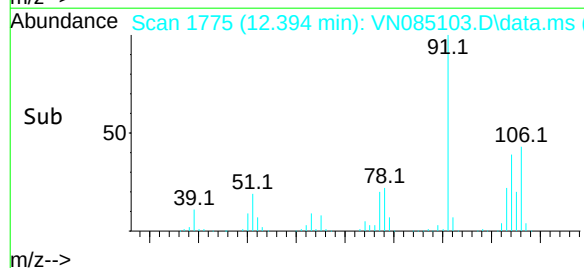
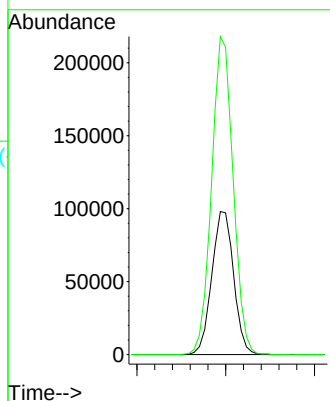
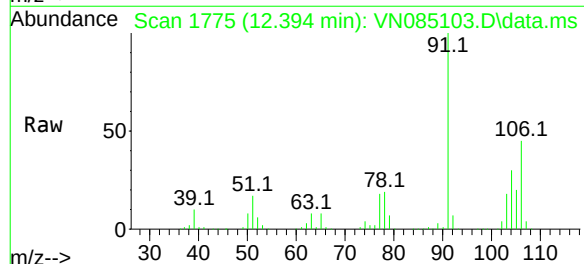
Acq: 04 Dec 2024 18:49

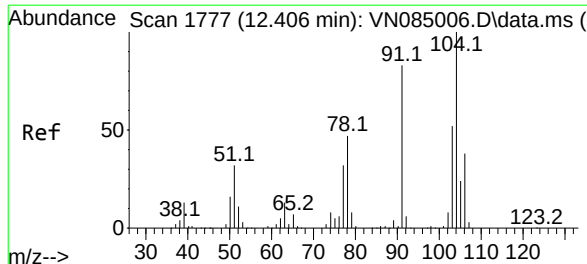
Tgt Ion:106 Resp: 167704

Ion Ratio Lower Upper

106 100

91 219.2 110.7 331.9





#70

Styrene

Concen: 54.207 ug/l

RT: 12.412 min Scan# 1777

Delta R.T. 0.006 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MSD

Tgt Ion:104 Resp: 283523

Ion Ratio Lower Upper

104 100

78 53.1 42.3 63.5

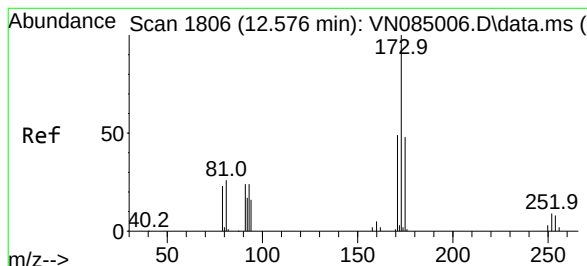
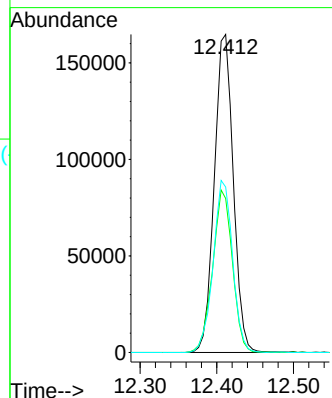
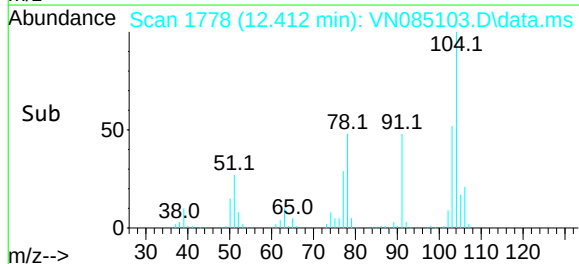
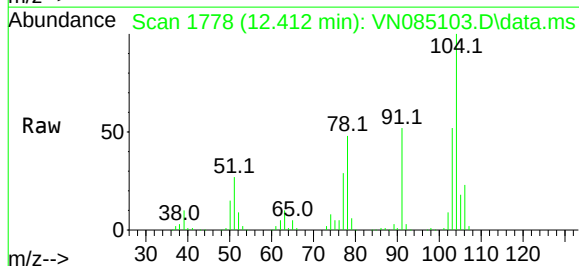
103 55.4 44.2 66.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#71

Bromoform

Concen: 54.160 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. -0.000 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

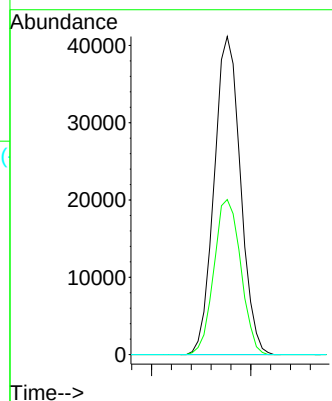
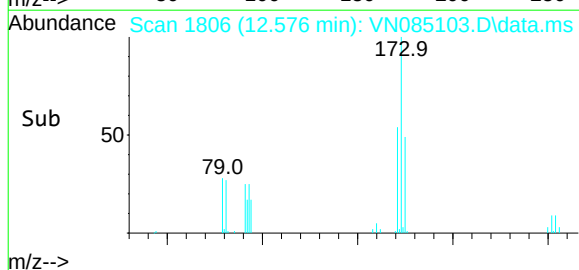
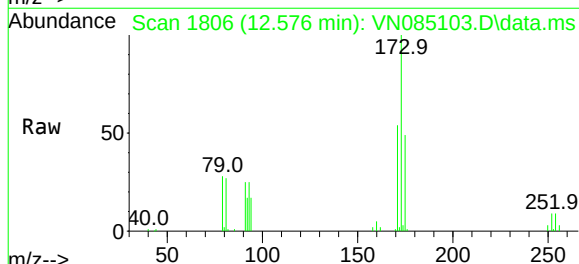
Tgt Ion:173 Resp: 75771

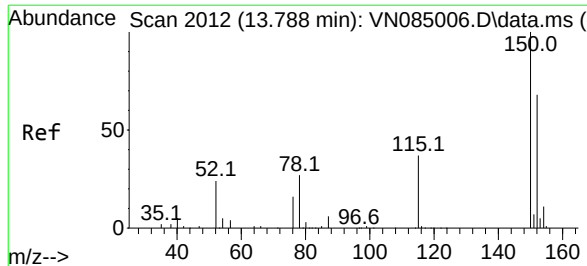
Ion Ratio Lower Upper

173 100

175 49.7 23.8 71.2

254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MSD

Tgt Ion:152 Resp: 113440

Ion Ratio Lower Upper

152 100

115 63.5 31.7 95.1

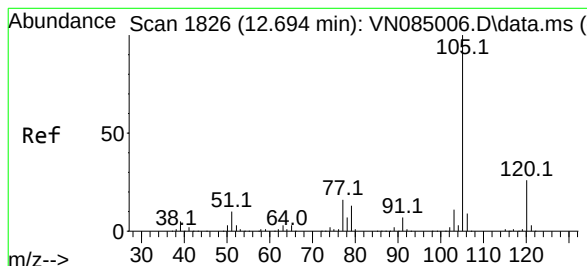
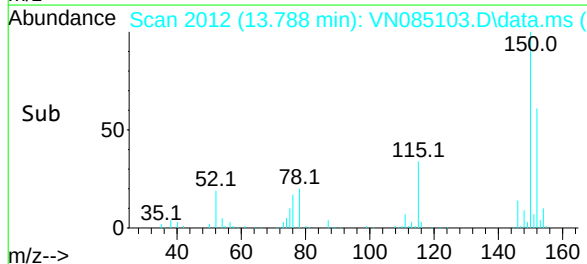
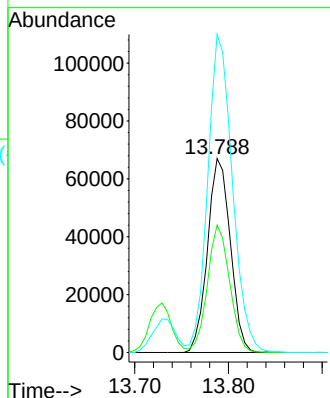
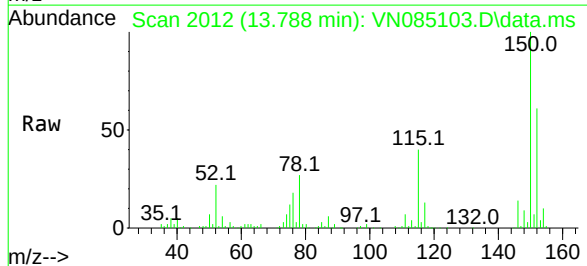
150 177.4 0.0 351.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#73

Isopropylbenzene

Concen: 53.451 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. -0.000 min

Lab File: VN085103.D

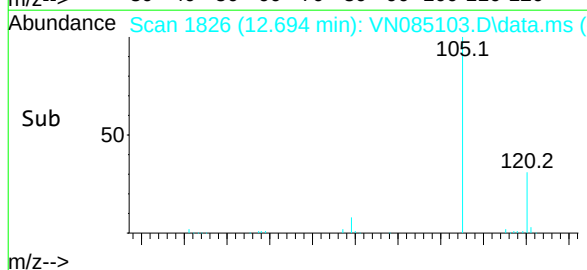
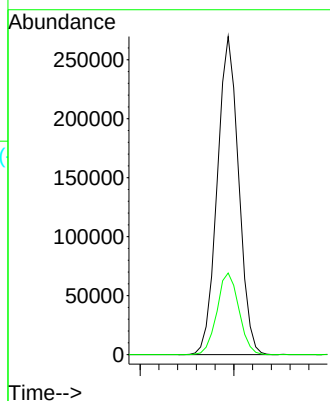
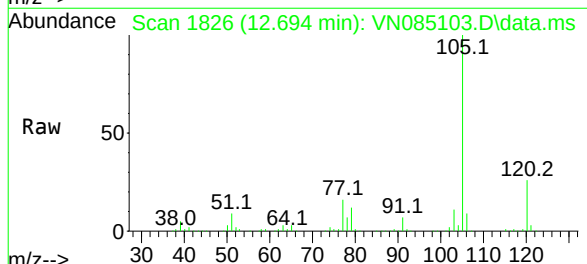
Acq: 04 Dec 2024 18:49

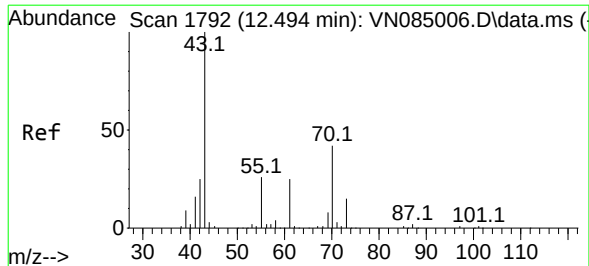
Tgt Ion:105 Resp: 427756

Ion Ratio Lower Upper

105 100

120 26.2 13.0 39.0





#74

N-ethyl acetate

Concen: 55.928 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. -0.000 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MSD

Tgt Ion: 43 Resp: 184435

Ion Ratio Lower Upper

43 100

70 45.1 34.6 51.8

55 26.2 20.5 30.7

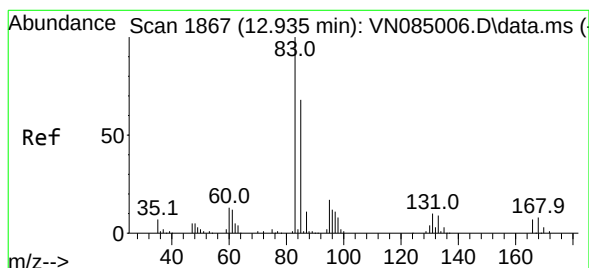
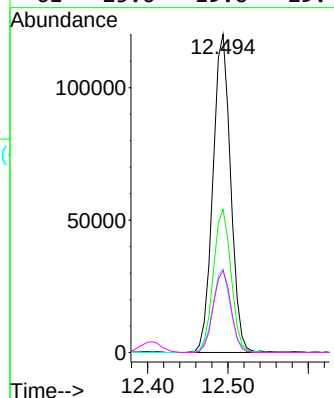
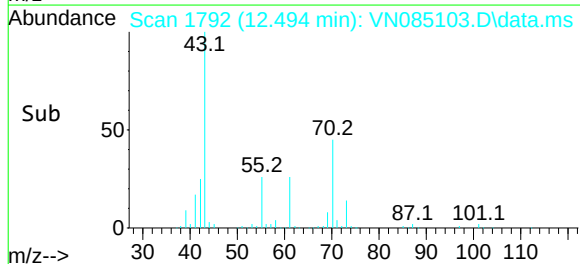
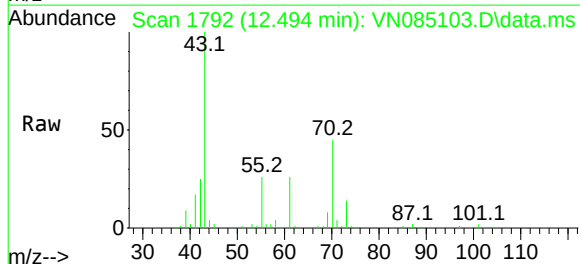
61 25.6 19.6 29.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#75

1,1,2,2-Tetrachloroethane

Concen: 50.621 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. -0.000 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

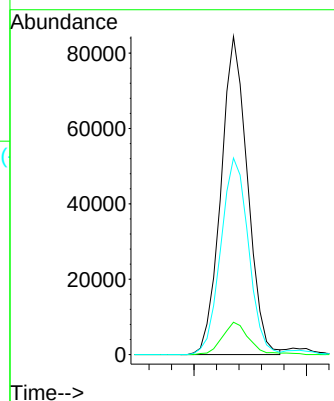
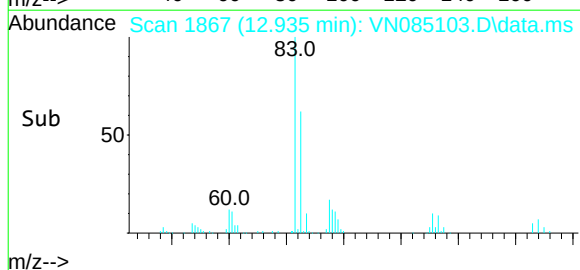
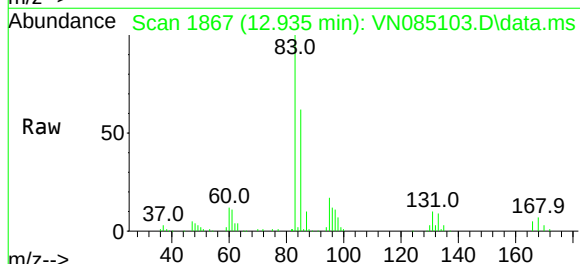
Tgt Ion: 83 Resp: 138336

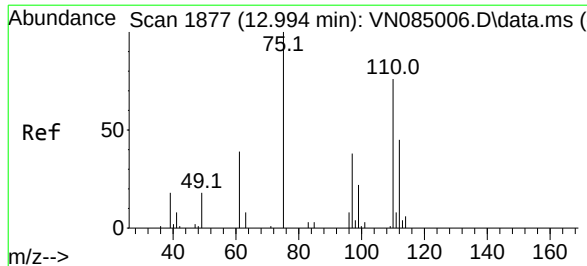
Ion Ratio Lower Upper

83 100

131 10.3 5.1 15.4

85 64.3 32.1 96.3





#76

1,2,3-Trichloropropane

Concen: 54.627 ug/l m

RT: 12.988 min Scan# 18

Delta R.T. -0.006 min

Lab File: VN085103.D

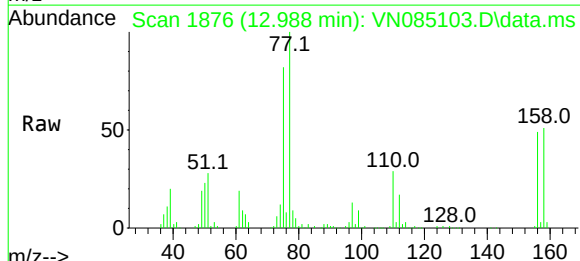
Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MSD



Tgt Ion: 75 Resp: 112717

Ion Ratio Lower Upper

75 100

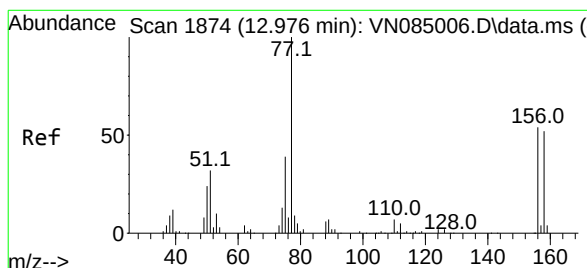
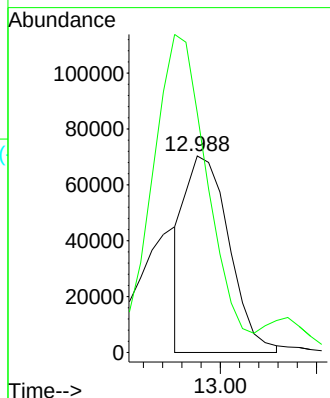
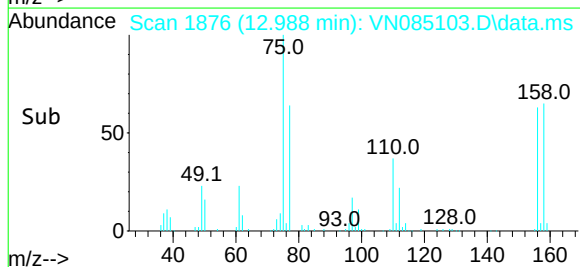
77 202.7 109.1 327.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#77

Bromobenzene

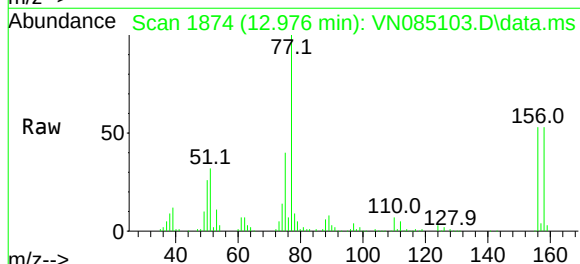
Concen: 49.432 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. -0.000 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49



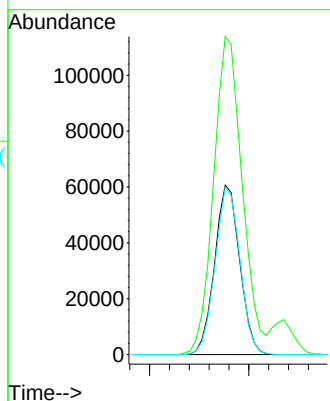
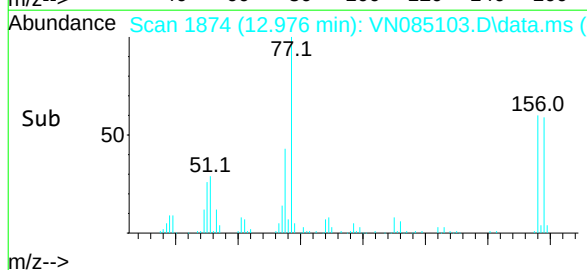
Tgt Ion:156 Resp: 106457

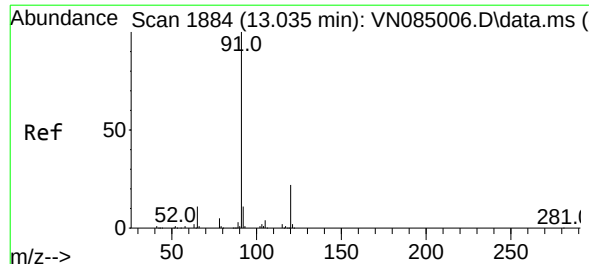
Ion Ratio Lower Upper

156 100

77 214.7 107.2 321.6

158 97.7 48.5 145.6





#78

n-propylbenzene

Concen: 54.725 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. -0.000 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MSD

Tgt Ion: 91 Resp: 505144

Ion Ratio Lower Upper

91 100

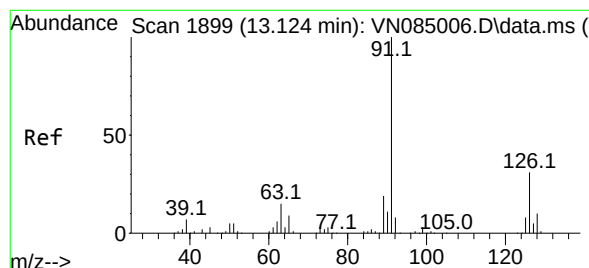
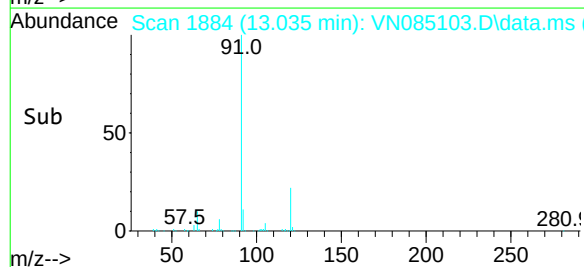
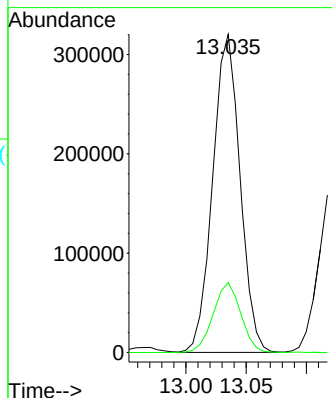
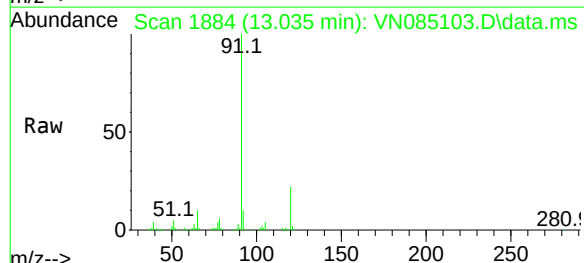
120 22.1 11.3 33.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#79

2-Chlorotoluene

Concen: 50.239 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN085103.D

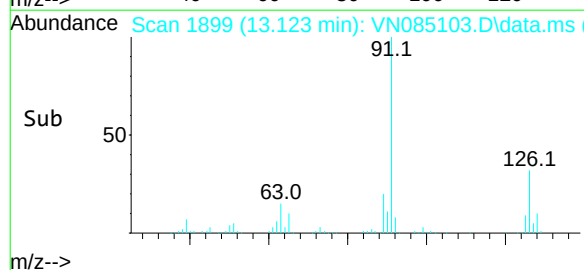
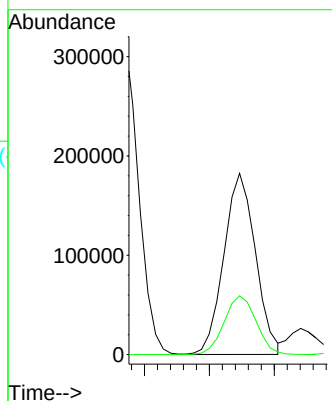
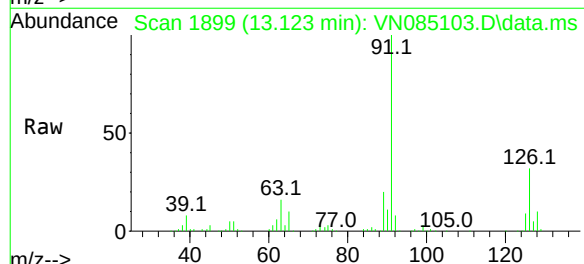
Acq: 04 Dec 2024 18:49

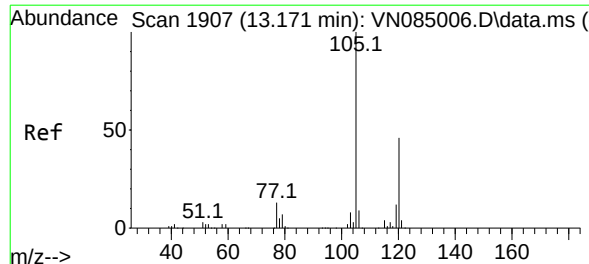
Tgt Ion: 91 Resp: 309565

Ion Ratio Lower Upper

91 100

126 32.7 16.1 48.3





#80

1,3,5-Trimethylbenzene

Concen: 54.826 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MSD

Tgt Ion:105 Resp: 368177

Ion Ratio Lower Upper

105 100

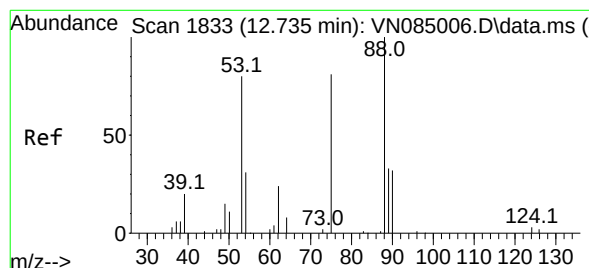
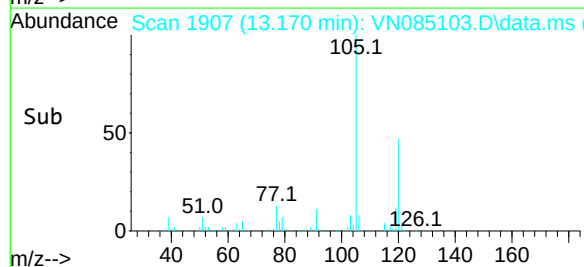
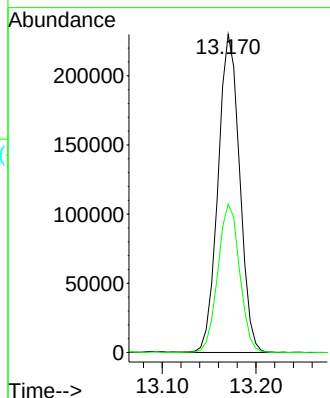
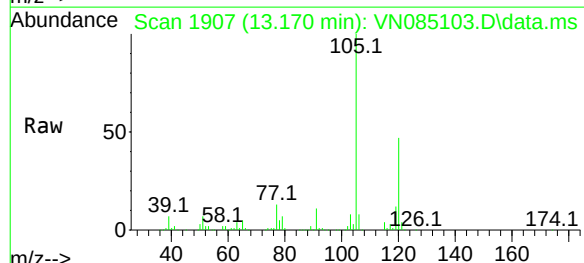
120 47.0 23.6 71.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#81

trans-1,4-Dichloro-2-butene

Concen: 53.396 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. -0.000 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

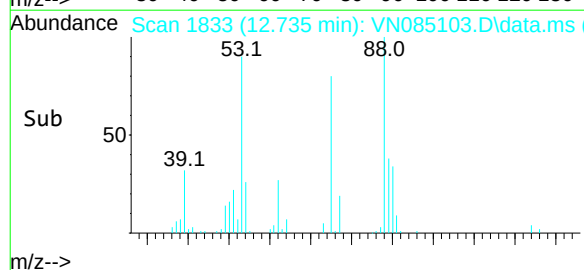
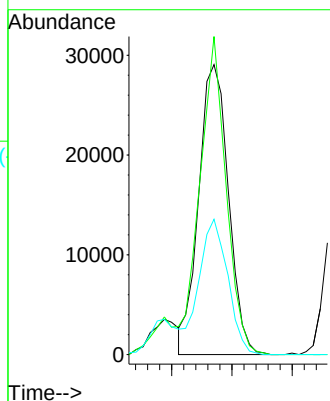
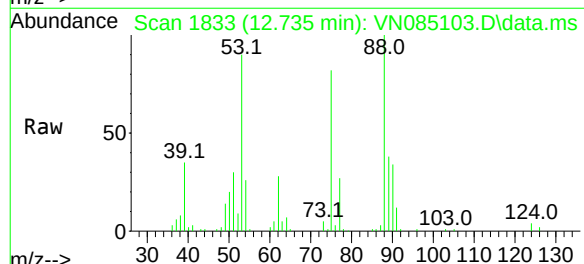
Tgt Ion: 75 Resp: 49909

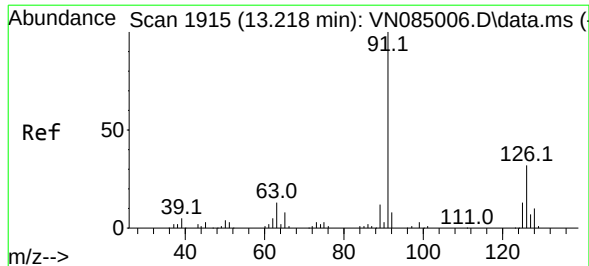
Ion Ratio Lower Upper

75 100

53 98.6 78.2 117.4

89 45.8 37.9 56.9





#82

4-Chlorotoluene

Concen: 49.210 ug/l

RT: 13.217 min Scan# 1915

Delta R.T. -0.000 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MSD

Tgt Ion: 91 Resp: 315657

Ion Ratio Lower Upper

91 100

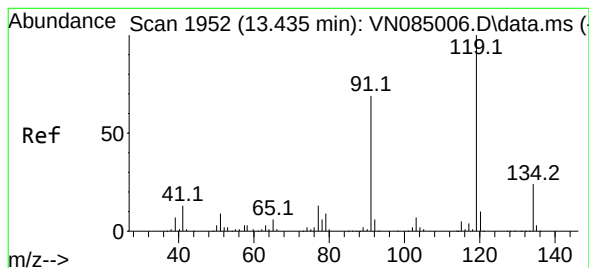
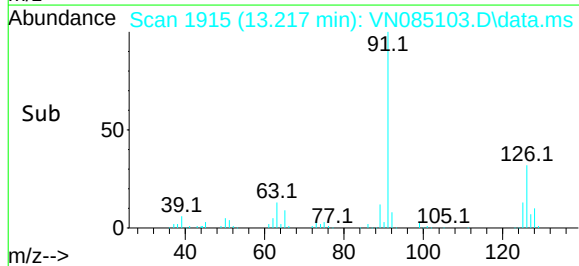
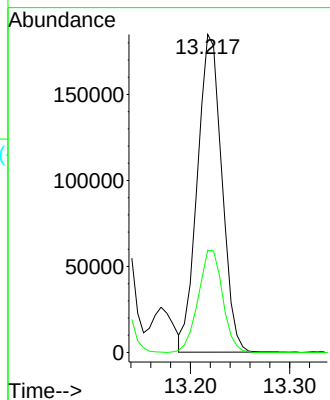
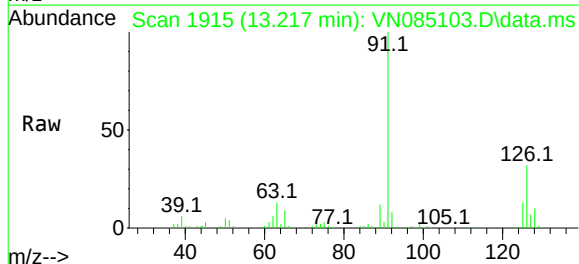
126 32.2 16.1 48.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#83

tert-Butylbenzene

Concen: 56.228 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

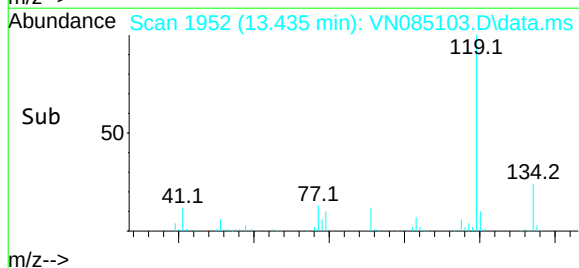
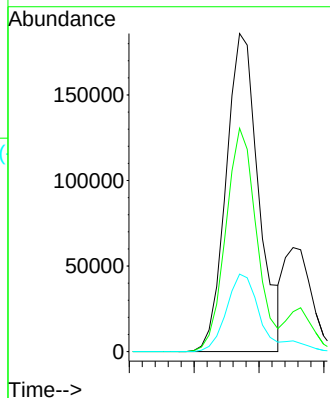
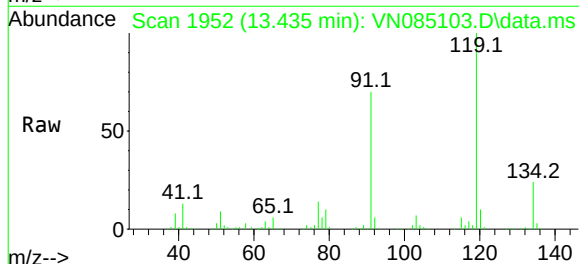
Tgt Ion:119 Resp: 324884

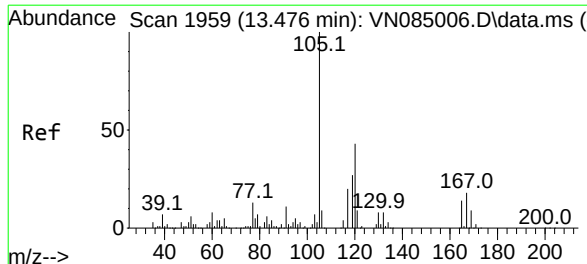
Ion Ratio Lower Upper

119 100

91 66.3 35.1 105.5

134 26.2 12.1 36.3





#84

1,2,4-Trimethylbenzene

Concen: 53.558 ug/l

RT: 13.482 min Scan# 19

Delta R.T. 0.006 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MSD

Tgt Ion:105 Resp: 370220

Ion Ratio Lower Upper

105 100

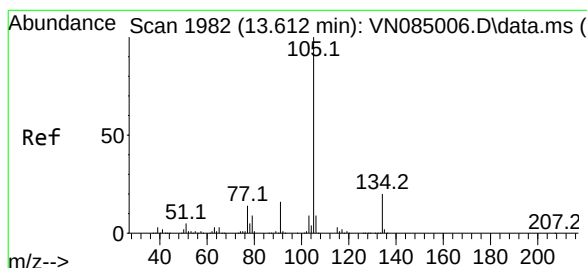
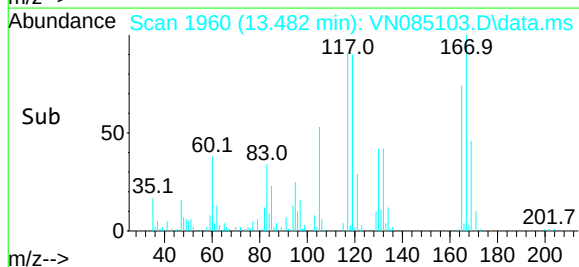
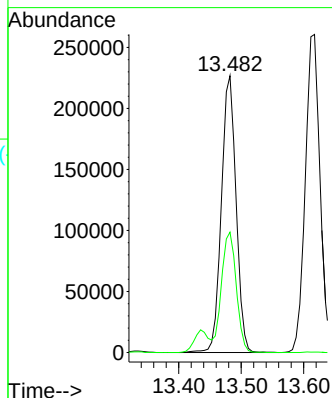
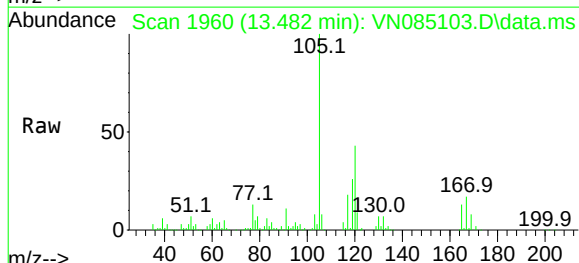
120 43.9 21.8 65.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#85

sec-Butylbenzene

Concen: 54.480 ug/l

RT: 13.617 min Scan# 1983

Delta R.T. 0.006 min

Lab File: VN085103.D

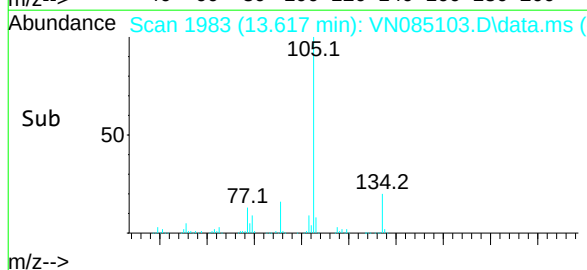
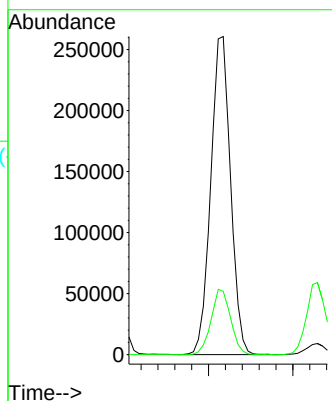
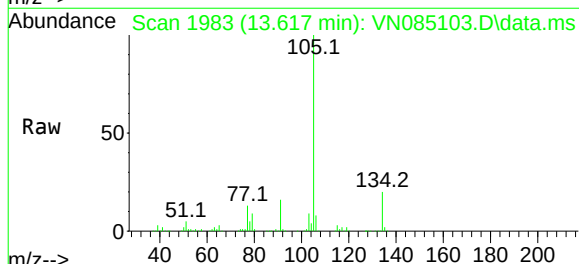
Acq: 04 Dec 2024 18:49

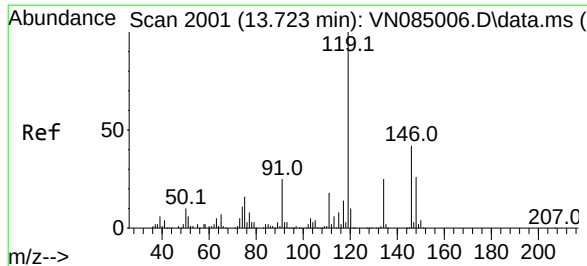
Tgt Ion:105 Resp: 425229

Ion Ratio Lower Upper

105 100

134 20.1 9.8 29.3





#86

p-Isopropyltoluene

Concen: 55.863 ug/l

RT: 13.729 min Scan# 2001

Delta R.T. 0.006 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

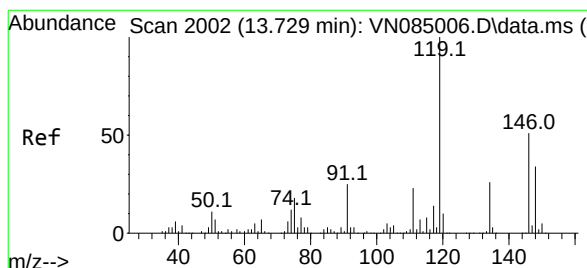
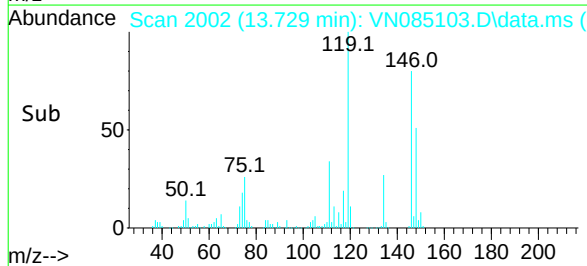
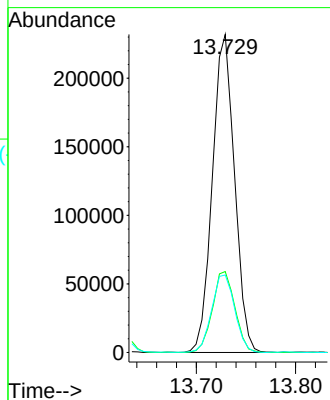
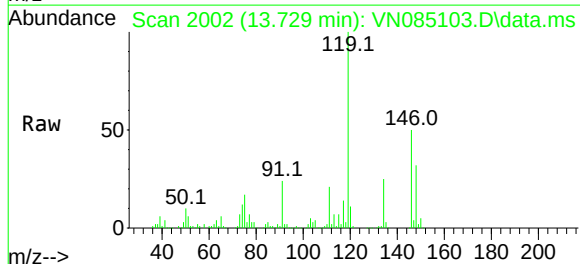
Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MSD

Tgt Ion:	119	Resp:	359937
Ion Ratio	Lower	Upper	
119	100		
134	25.9	13.0	39.0
91	25.4	12.8	38.4

Manual Integrations
APPROVEDReviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024

#87

1,3-Dichlorobenzene

Concen: 44.802 ug/l

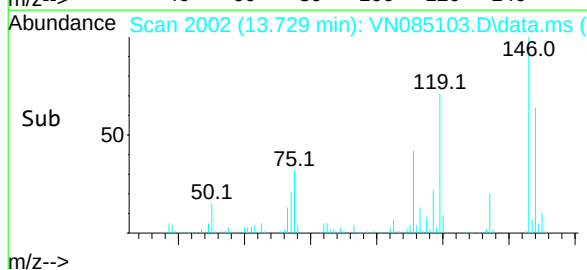
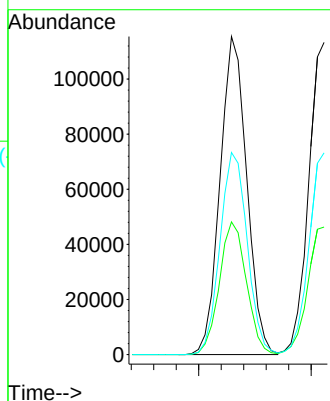
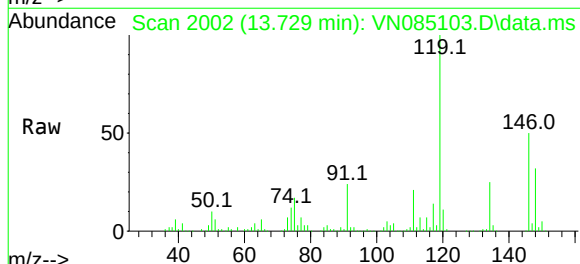
RT: 13.729 min Scan# 2002

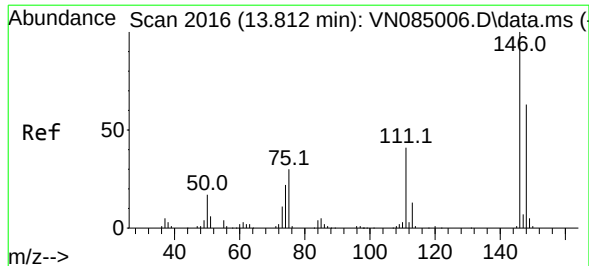
Delta R.T. -0.000 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Tgt Ion:	146	Resp:	190311
Ion Ratio	Lower	Upper	
146	100		
111	42.3	21.6	65.0
148	64.8	32.2	96.6





#88

1,4-Dichlorobenzene

Concen: 44.412 ug/l

RT: 13.811 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN085103.D

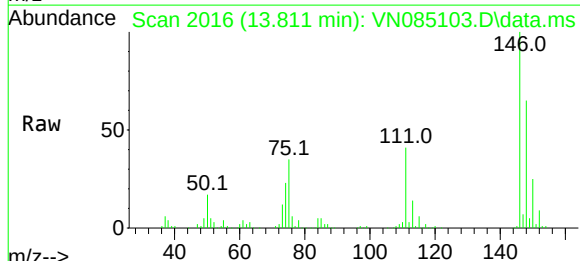
Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MSD

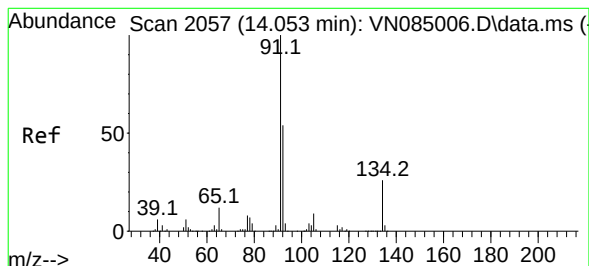
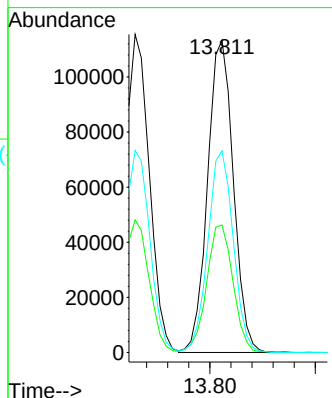
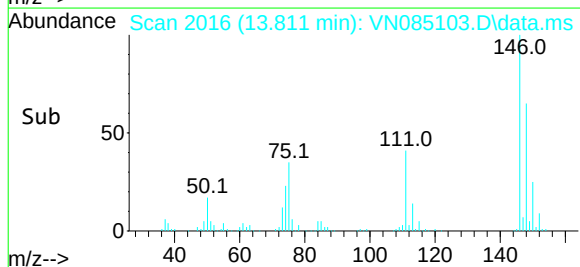


Tgt Ion:	146	Resp:	192522
Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.9	62.8
148	63.9	31.3	93.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#89

n-Butylbenzene

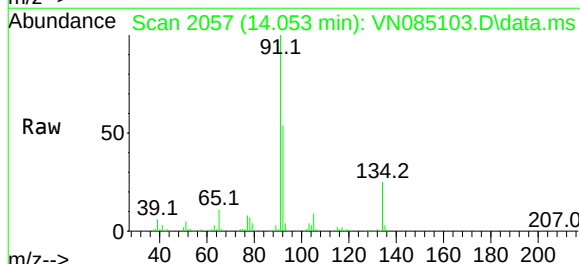
Concen: 49.524 ug/l

RT: 14.053 min Scan# 2057

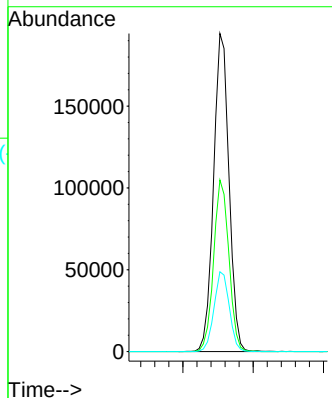
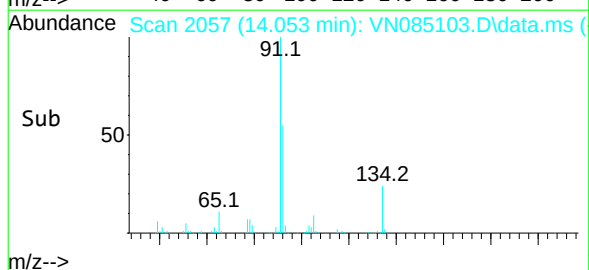
Delta R.T. -0.000 min

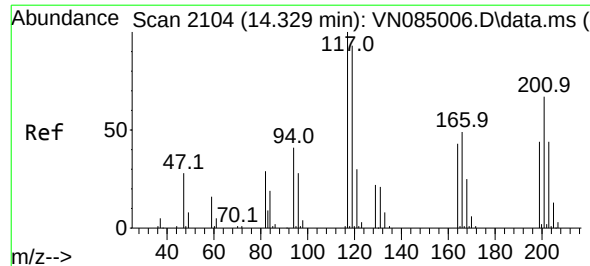
Lab File: VN085103.D

Acq: 04 Dec 2024 18:49



Tgt Ion:	91	Resp:	296746
Ion	Ratio	Lower	Upper
91	100		
92	53.4	26.8	80.3
134	24.9	12.8	38.4





#90

Hexachloroethane

Concen: 50.117 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. -0.000 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MSD

Tgt Ion:117 Resp: 70387

Ion Ratio Lower Upper

117 100

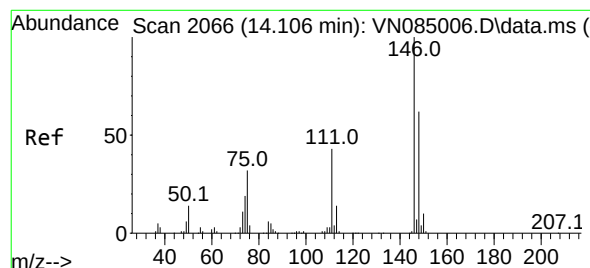
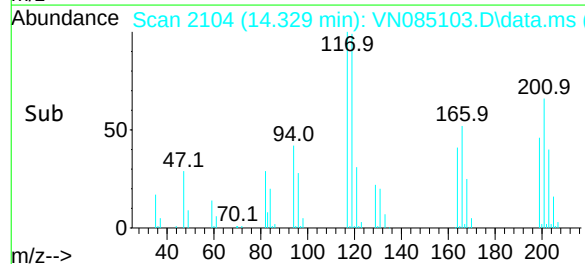
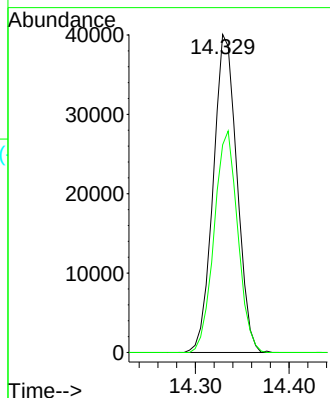
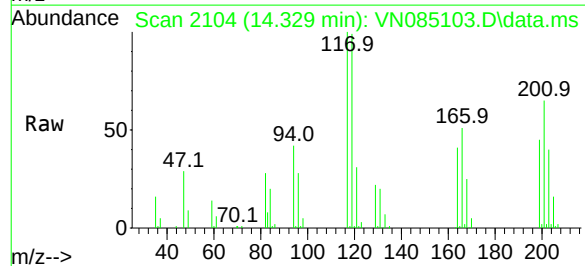
201 69.5 35.2 105.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



#91

1,2-Dichlorobenzene

Concen: 46.583 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN085103.D

Acq: 04 Dec 2024 18:49

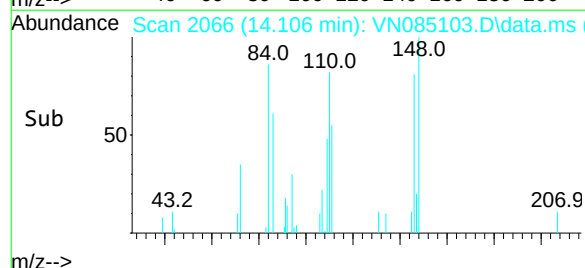
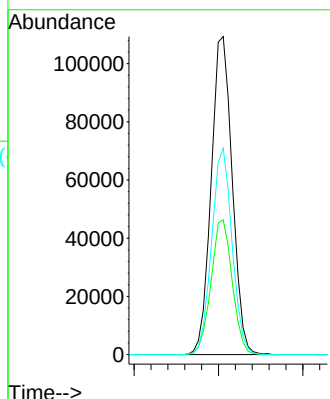
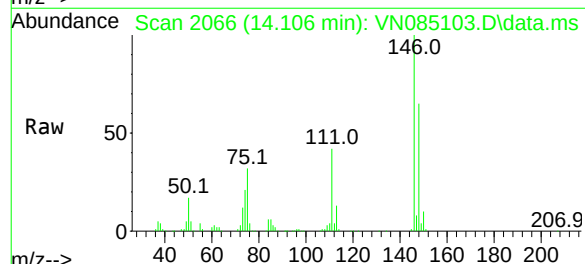
Tgt Ion:146 Resp: 189612

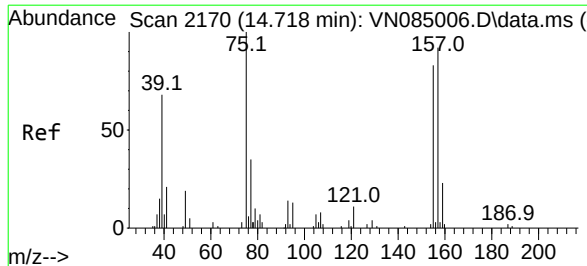
Ion Ratio Lower Upper

146 100

111 42.6 21.9 65.8

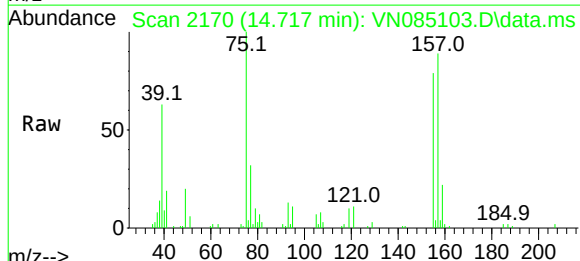
148 63.0 31.1 93.2





1,2-Dibromo-3-Chloropropane
Concen: 54.228 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN085103.D
Acq: 04 Dec 2024 18:49

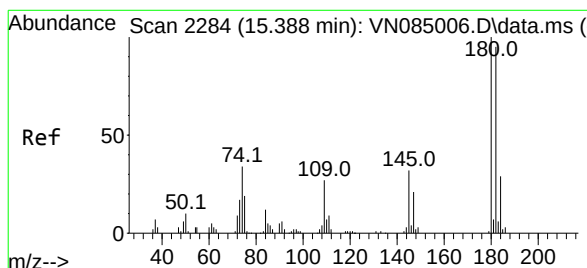
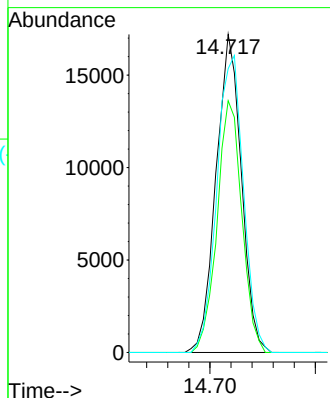
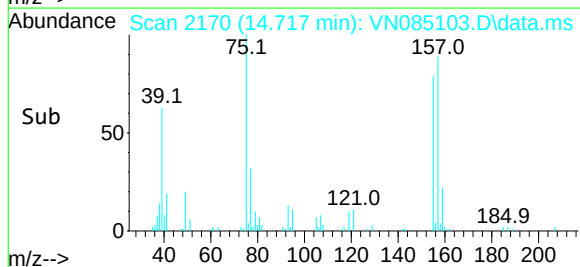
Instrument : MSVOA_N
ClientSampleId :
UNIT-51-RS-SW001-01MSD



Tgt Ion:	75	Resp:	28656
Ion Ratio	Lower	Upper	
75	100		
155	77.4	38.9	116.7
157	98.3	48.3	144.9

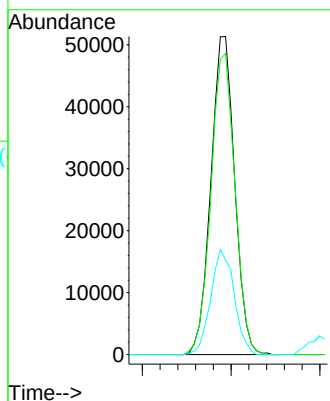
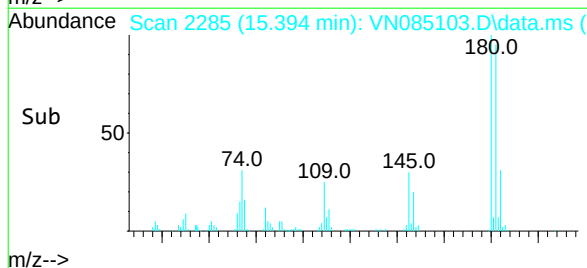
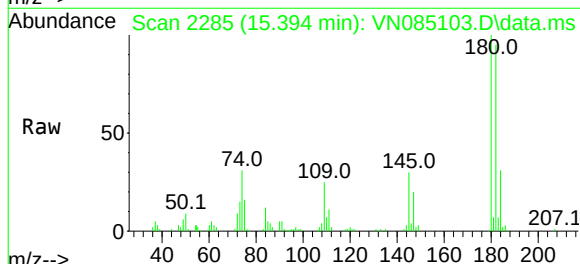
Manual Integrations
APPROVED

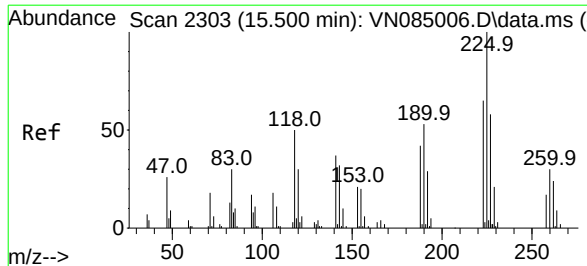
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



1,2,4-Trichlorobenzene
Concen: 43.186 ug/l
RT: 15.394 min Scan# 2285
Delta R.T. 0.006 min
Lab File: VN085103.D
Acq: 04 Dec 2024 18:49

Tgt Ion:	180	Resp:	95500
Ion Ratio	Lower	Upper	
180	100		
182	95.7	46.9	140.8
145	32.7	16.3	48.8





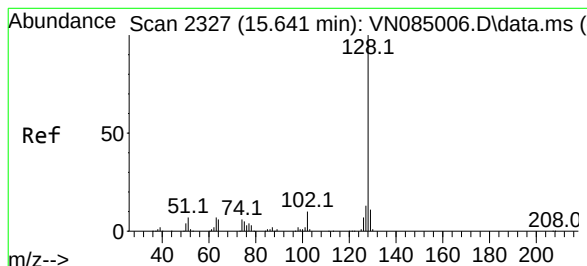
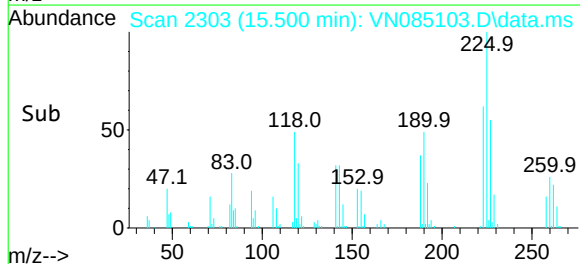
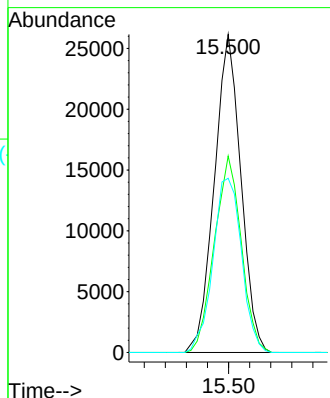
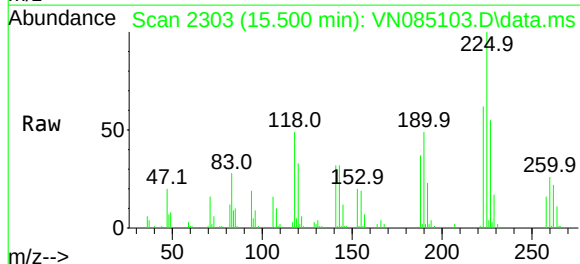
#94
Hexachlorobutadiene
Concen: 44.870 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN085103.D
Acq: 04 Dec 2024 18:49

Instrument :
MSVOA_N
ClientSampleId :
UNIT-51-RS-SW001-01MSD

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.6	30.9	92.8
227	59.0	31.5	94.5

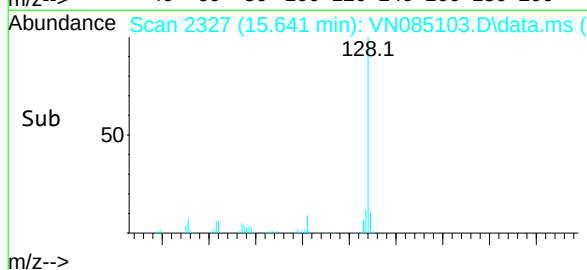
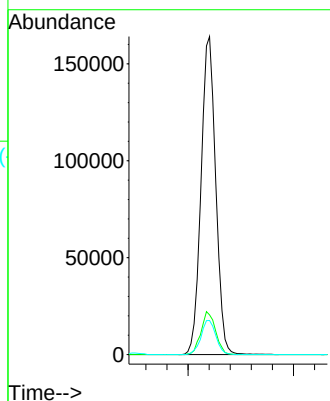
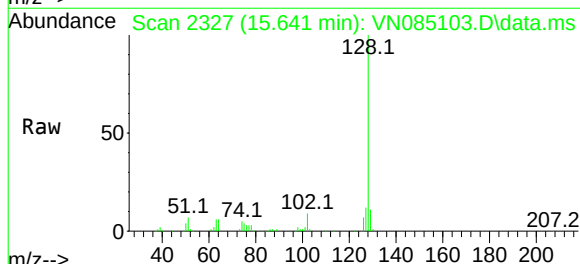
Manual Integrations
APPROVED

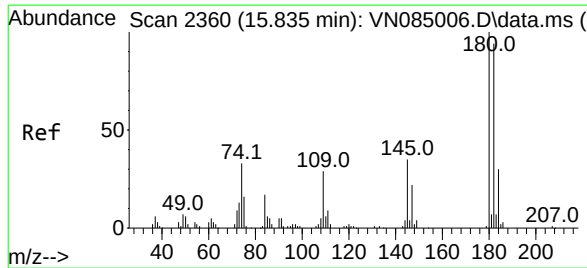
Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



#95
Naphthalene
Concen: 50.424 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN085103.D
Acq: 04 Dec 2024 18:49

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.6	16.0
129	10.9	8.6	12.8





#96

1,2,3-Trichlorobenzene

Concen: 45.290 ug/l

RT: 15.841 min Scan# 23

Delta R.T. 0.006 min

Lab File: VN085103.D

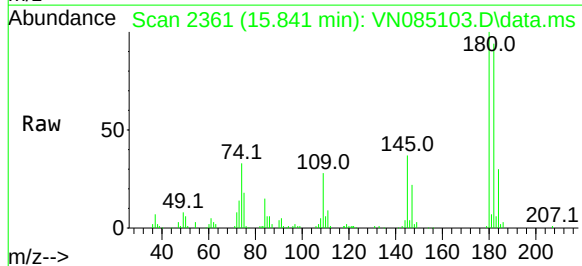
Acq: 04 Dec 2024 18:49

Instrument :

MSVOA_N

ClientSampleId :

UNIT-51-RS-SW001-01MSD

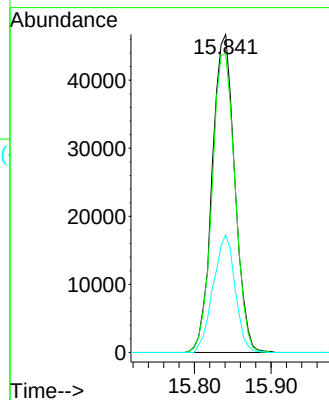
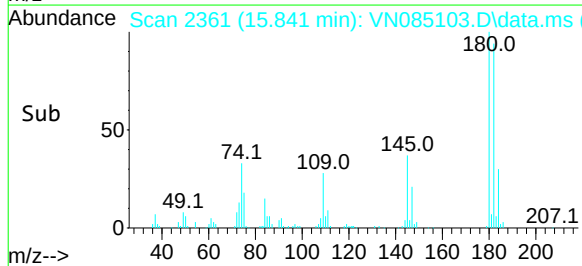


Tgt Ion:	180	Resp:	95562
Ion Ratio	Lower	Upper	
180	100		
182	95.3	46.4	139.2
145	36.0	17.3	52.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2024

Supervised By :Mahesh Dadoda 12/05/2024



Manual Integration Report

Sequence:	VN112224	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN085005.D	1,2,3-Trichloropropane	JOHN	11/25/2024 9:40:15 AM	MMDadoda	11/25/2024 2:03:01 PM	Peak Integrated by Software
VSTDICCC050	VN085006.D	1,2,3-Trichloropropane	JOHN	11/25/2024 9:40:19 AM	MMDadoda	11/25/2024 2:03:02 PM	Peak Integrated by Software
VSTDICC020	VN085007.D	1,2,3-Trichloropropane	JOHN	11/25/2024 9:40:24 AM	MMDadoda	11/25/2024 2:03:03 PM	Peak Integrated by Software
VSTDICC010	VN085008.D	1,2,3-Trichloropropane	JOHN	11/25/2024 9:40:29 AM	MMDadoda	11/25/2024 2:03:05 PM	Peak Integrated by Software
VSTDICC005	VN085009.D	1,2,3-Trichloropropane	JOHN	11/25/2024 9:40:32 AM	MMDadoda	11/25/2024 2:03:06 PM	Peak Integrated by Software
VSTDICC001	VN085010.D	1,1,2-Trichlorotrifluoroethane	JOHN	11/25/2024 9:40:37 AM	MMDadoda	11/25/2024 2:03:08 PM	Peak Integrated by Software
VSTDICC001	VN085010.D	1,2,3-Trichloropropane	JOHN	11/25/2024 9:40:37 AM	MMDadoda	11/25/2024 2:03:08 PM	Peak Integrated by Software
VSTDICC001	VN085010.D	1,4-Dichlorobenzene	JOHN	11/25/2024 9:40:37 AM	MMDadoda	11/25/2024 2:03:08 PM	Peak Integrated by Software
VSTDICC001	VN085010.D	Chloroethane	JOHN	11/25/2024 9:40:37 AM	MMDadoda	11/25/2024 2:03:08 PM	Peak Integrated by Software
VSTDICC001	VN085010.D	Isopropyl Acetate	JOHN	11/25/2024 9:40:37 AM	MMDadoda	11/25/2024 2:03:08 PM	Peak Integrated by Software
VSTDICC001	VN085010.D	Methyl Acetate	JOHN	11/25/2024 9:40:37 AM	MMDadoda	11/25/2024 2:03:08 PM	Peak Integrated by Software
VSTDICC001	VN085010.D	Methyl tert-butyl Ether	JOHN	11/25/2024 9:40:37 AM	MMDadoda	11/25/2024 2:03:08 PM	Peak Integrated by Software
VSTDICC001	VN085010.D	Methylene Chloride	JOHN	11/25/2024 9:40:37 AM	MMDadoda	11/25/2024 2:03:08 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VN112224	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VN085012.D	1,2,3-Trichloropropane	JOHN	11/25/2024 9:40:43 AM	MMDadoda	11/25/2024 2:03:10 PM	Peak Integrated by Software
VSTDCCC050	VN085020.D	1,2,3-Trichloropropane	JOHN	11/25/2024 9:41:20 AM	MMDadoda	11/25/2024 2:03:24 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

vn120424

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN085084.D	1,2,3-Trichloropropane	JOHN	12/5/2024 9:48:38 AM	MMDadoda	12/5/2024 12:35:25 PM	Peak Integrated by Software
VN1204WBS01	VN085087.D	1,2,3-Trichloropropane	JOHN	12/5/2024 9:48:44 AM	MMDadoda	12/5/2024 12:35:26 PM	Peak Integrated by Software
P5088-04MS	VN085102.D	1,2,3-Trichloropropane	JOHN	12/5/2024 9:49:24 AM	MMDadoda	12/5/2024 12:35:35 PM	Peak Integrated by Software
P5088-05MSD	VN085103.D	1,2,3-Trichloropropane	JOHN	12/5/2024 9:49:28 AM	MMDadoda	12/5/2024 12:35:37 PM	Peak Integrated by Software
VSTDCCC050	VN085104.D	1,2,3-Trichloropropane	JOHN	12/5/2024 9:49:33 AM	MMDadoda	12/5/2024 12:35:39 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VN120524

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN085106.D	1,2,3-Trichloropropane	JOHN	12/6/2024 9:38:42 AM	MMDadoda	12/6/2024 12:56:01 PM	Peak Integrated by Software
VN1205WBS01	VN085109.D	1,2,3-Trichloropropane	JOHN	12/6/2024 9:38:49 AM	MMDadoda	12/6/2024 12:56:01 PM	Peak Integrated by Software
VSTDCCC050	VN085115.D	1,2,3-Trichloropropane	JOHN	12/6/2024 9:39:04 AM	MMDadoda	12/6/2024 12:56:05 PM	Peak Integrated by Software

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN112224

Review By	John Carlone	Review On	11/25/2024 9:42:43 AM
Supervise By	Maresh Dadoda	Supervise On	11/25/2024 2:03:31 PM
SubDirectory	VN112224	HP Acquire Method	HP Processing Method 82N112224W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP131747		
Initial Calibration Stds	VP131752,VP131753,VP131754,VP131755,VP131756,VP131757		
CCC	VP131751		
Internal Standard/PEM			
ICV/I.BLK	VP131758		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085003.D	22 Nov 2024 09:29	JC\MD	Ok
2	VSTDCCC050	VN085004.D	22 Nov 2024 10:40	JC\MD	Not Ok
3	VSTDICC100	VN085005.D	22 Nov 2024 11:22	JC\MD	Ok,M
4	VSTDICCC050	VN085006.D	22 Nov 2024 11:46	JC\MD	Ok,M
5	VSTDICC020	VN085007.D	22 Nov 2024 12:10	JC\MD	Ok,M
6	VSTDICC010	VN085008.D	22 Nov 2024 12:34	JC\MD	Ok,M
7	VSTDICC005	VN085009.D	22 Nov 2024 12:57	JC\MD	Ok,M
8	VSTDICC001	VN085010.D	22 Nov 2024 13:45	JC\MD	Ok,M
9	IBLK	VN085011.D	22 Nov 2024 14:09	JC\MD	Ok
10	VSTDICV050	VN085012.D	22 Nov 2024 16:07	JC\MD	Ok,M
11	VN1122WBL01	VN085013.D	22 Nov 2024 17:05	JC\MD	Ok
12	VN1122WBS01	VN085014.D	22 Nov 2024 18:05	JC\MD	Ok,M
13	VN1122WBSD01	VN085015.D	22 Nov 2024 18:29	JC\MD	Ok,M
14	P4845-21	VN085016.D	22 Nov 2024 19:17	JC\MD	Dilution
15	P4845-22	VN085017.D	22 Nov 2024 19:41	JC\MD	ReRun
16	P4845-23	VN085018.D	22 Nov 2024 20:05	JC\MD	Ok,M
17	P4845-24	VN085019.D	22 Nov 2024 20:29	JC\MD	Ok,M
18	VSTDCCC050	VN085020.D	22 Nov 2024 20:52	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN120424

Review By	John Carlone	Review On	12/5/2024 9:51:34 AM
Supervise By	Maresh Dadoda	Supervise On	12/5/2024 12:36:11 PM
SubDirectory	VN120424	HP Acquire Method	HP Processing Method 82N112224W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP131905		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131906,VP131907		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085083.D	04 Dec 2024 09:00	JC\MD	Ok
2	VSTDCCC050	VN085084.D	04 Dec 2024 09:51	JC\MD	Ok,M
3	VN1204MBL01	VN085085.D	04 Dec 2024 11:27	JC\MD	Ok
4	VN1204WBL01	VN085086.D	04 Dec 2024 11:50	JC\MD	Ok
5	VN1204WBS01	VN085087.D	04 Dec 2024 12:14	JC\MD	Ok,M
6	VN1204WBSD01	VN085088.D	04 Dec 2024 12:49	JC\MD	Ok,M
7	PB165342TB	VN085089.D	04 Dec 2024 13:13	JC\MD	Ok
8	P5052-02	VN085090.D	04 Dec 2024 13:37	JC\MD	Ok
9	P5052-08	VN085091.D	04 Dec 2024 14:01	JC\MD	Ok
10	P5052-14	VN085092.D	04 Dec 2024 14:25	JC\MD	Ok,M
11	P5052-20	VN085093.D	04 Dec 2024 14:49	JC\MD	Ok,M
12	P5069-02	VN085094.D	04 Dec 2024 15:13	JC\MD	Ok
13	P5072-04	VN085095.D	04 Dec 2024 15:37	JC\MD	Ok,M
14	P5072-08	VN085096.D	04 Dec 2024 16:01	JC\MD	Ok,M
15	IBLK	VN085097.D	04 Dec 2024 16:25	JC\MD	Ok
16	P5088-01	VN085098.D	04 Dec 2024 16:49	JC\MD	ReRun
17	P5088-02	VN085099.D	04 Dec 2024 17:13	JC\MD	Ok
18	P5088-06	VN085100.D	04 Dec 2024 17:37	JC\MD	Ok
19	P5088-03	VN085101.D	04 Dec 2024 18:01	JC\MD	Ok
20	P5088-04MS	VN085102.D	04 Dec 2024 18:25	JC\MD	Ok,M
21	P5088-05MSD	VN085103.D	04 Dec 2024 18:49	JC\MD	Ok,M

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN120424

Review By	John Carlone	Review On	12/5/2024 9:51:34 AM
Supervise By	Mahesh Dadoda	Supervise On	12/5/2024 12:36:11 PM
SubDirectory	VN120424	HP Acquire Method	HP Processing Method 82N112224W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP131905		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131906,VP131907		

22	VSTDCCC050	VN085104.D	04 Dec 2024 19:13	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN120524

Review By	John Carlone	Review On	12/6/2024 9:40:04 AM
Supervise By	Maresh Dadoda	Supervise On	12/6/2024 12:56:09 PM
SubDirectory	VN120524	HP Acquire Method	HP Processing Method 82N112224W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP131950		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131951,VP131952		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085105.D	05 Dec 2024 08:29	JC\MD	Ok
2	VSTDCCC050	VN085106.D	05 Dec 2024 10:50	JC\MD	Ok,M
3	VN1205MBL01	VN085107.D	05 Dec 2024 11:25	JC\MD	Ok
4	VN1205WBL01	VN085108.D	05 Dec 2024 11:49	JC\MD	Ok
5	VN1205WBS01	VN085109.D	05 Dec 2024 12:13	JC\MD	Ok,M
6	VN1205WBSD01	VN085110.D	05 Dec 2024 12:46	JC\MD	Ok,M
7	IBLK	VN085111.D	05 Dec 2024 13:11	JC\MD	Ok
8	IBLK	VN085112.D	05 Dec 2024 13:35	JC\MD	Ok
9	P5088-01	VN085113.D	05 Dec 2024 13:59	JC\MD	Ok
10	VN1205WBSD02	VN085114.D	05 Dec 2024 14:23	JC\MD	Not Ok
11	VSTDCCC050	VN085115.D	05 Dec 2024 17:00	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN112224

Review By	John Carlone	Review On	11/25/2024 9:42:43 AM
Supervise By	Maresh Dadoda	Supervise On	11/25/2024 2:03:31 PM
SubDirectory	VN112224	HP Acquire Method	HP Processing Method 82N112224W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131747
Initial Calibration Stds	VP131752,VP131753,VP131754,VP131755,VP131756,VP131757
CCC	VP131751
Internal Standard/PEM	
ICV/I.BLK	VP131758
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085003.D	22 Nov 2024 09:29		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN085004.D	22 Nov 2024 10:40	Need ICAL	JC\MD	Not Ok
3	VSTDICC100	VSTDICC100	VN085005.D	22 Nov 2024 11:22		JC\MD	Ok,M
4	VSTDICCC050	VSTDICCC050	VN085006.D	22 Nov 2024 11:46		JC\MD	Ok,M
5	VSTDICC020	VSTDICC020	VN085007.D	22 Nov 2024 12:10	Comp. #18 is on Linear Regression	JC\MD	Ok,M
6	VSTDICC010	VSTDICC010	VN085008.D	22 Nov 2024 12:34		JC\MD	Ok,M
7	VSTDICC005	VSTDICC005	VN085009.D	22 Nov 2024 12:57		JC\MD	Ok,M
8	VSTDICC001	VSTDICC001	VN085010.D	22 Nov 2024 13:45		JC\MD	Ok,M
9	IBLK	IBLK	VN085011.D	22 Nov 2024 14:09		JC\MD	Ok
10	VSTDICV050	ICVVN112224	VN085012.D	22 Nov 2024 16:07		JC\MD	Ok,M
11	VN1122WBL01	VN1122WBL01	VN085013.D	22 Nov 2024 17:05		JC\MD	Ok
12	VN1122WBS01	VN1122WBS01	VN085014.D	22 Nov 2024 18:05		JC\MD	Ok,M
13	VN1122WBSD01	VN1122WBSD01	VN085015.D	22 Nov 2024 18:29		JC\MD	Ok,M
14	P4845-21	FSND-MW-13-2024111	VN085016.D	22 Nov 2024 19:17	vial A pH<2 Need 5X	JC\MD	Dilution
15	P4845-22	FSND-MW-11R-2024111	VN085017.D	22 Nov 2024 19:41	vial A pH<2 E flage in previous sample	JC\MD	ReRun
16	P4845-23	FSND-MW-18-2024111	VN085018.D	22 Nov 2024 20:05	vial A pH<2	JC\MD	Ok,M
17	P4845-24	FSND-MW-20-2024111	VN085019.D	22 Nov 2024 20:29	vial A pH<2	JC\MD	Ok,M

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN112224

Review By	John Carlone	Review On	11/25/2024 9:42:43 AM				
Supervise By	Mahesh Dadoda	Supervise On	11/25/2024 2:03:31 PM				
SubDirectory	VN112224	HP Acquire Method	HP Processing Method		82N112224W.M		
STD. NAME		STD REF.#					
Tune/Reschk		VP131747					
Initial Calibration Stds		VP131752,VP131753,VP131754,VP131755,VP131756,VP131757					
CCC		VP131751					
Internal Standard/PEM							
ICV/I.BLK		VP131758					
Surrogate Standard							
MS/MSD Standard							
LCS Standard							

18	VSTDCCC050	VSTDCCC050EC	VN085020.D	22 Nov 2024 20:52		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN120424

Review By	John Carlone	Review On	12/5/2024 9:51:34 AM
Supervise By	Maresh Dadoda	Supervise On	12/5/2024 12:36:11 PM
SubDirectory	VN120424	HP Acquire Method	HP Processing Method 82N112224W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP131905
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131906,VP131907

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085083.D	04 Dec 2024 09:00		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN085084.D	04 Dec 2024 09:51	V13516	JC\MD	Ok,M
3	VN1204MBL01	VN1204MBL01	VN085085.D	04 Dec 2024 11:27		JC\MD	Ok
4	VN1204WBL01	VN1204WBL01	VN085086.D	04 Dec 2024 11:50		JC\MD	Ok
5	VN1204WBS01	VN1204WBS01	VN085087.D	04 Dec 2024 12:14		JC\MD	Ok,M
6	VN1204WBSD01	VN1204WBSD01	VN085088.D	04 Dec 2024 12:49		JC\MD	Ok,M
7	PB165342TB	PB165342TB	VN085089.D	04 Dec 2024 13:13		JC\MD	Ok
8	P5052-02	OR-640-COMP-50	VN085090.D	04 Dec 2024 13:37	vial A pH#5.0	JC\MD	Ok
9	P5052-08	OR-640-COMP-51	VN085091.D	04 Dec 2024 14:01	vial A pH#5.0	JC\MD	Ok
10	P5052-14	OR-640-COMP-62	VN085092.D	04 Dec 2024 14:25	vial A pH#5.0	JC\MD	Ok,M
11	P5052-20	OR-640-COMP-63	VN085093.D	04 Dec 2024 14:49	vial A pH#5.0	JC\MD	Ok,M
12	P5069-02	A3988-SLUDGE	VN085094.D	04 Dec 2024 15:13	vial A pH#5.0	JC\MD	Ok
13	P5072-04	MH-737	VN085095.D	04 Dec 2024 15:37	vial A pH#5.0	JC\MD	Ok,M
14	P5072-08	MH-738	VN085096.D	04 Dec 2024 16:01	vial A pH#5.0	JC\MD	Ok,M
15	IBLK	IBLK	VN085097.D	04 Dec 2024 16:25		JC\MD	Ok
16	P5088-01	TB-241203-01	VN085098.D	04 Dec 2024 16:49	vial A pH<2 TB;hit of com.#30	JC\MD	ReRun
17	P5088-02	UNIT-51-FS-SW001-01	VN085099.D	04 Dec 2024 17:13	vial A pH<2	JC\MD	Ok
18	P5088-06	UNIT-51-RS-SW001-02	VN085100.D	04 Dec 2024 17:37	vial A pH<2	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN120424

Review By	John Carlone	Review On	12/5/2024 9:51:34 AM
Supervise By	Mahesh Dadoda	Supervise On	12/5/2024 12:36:11 PM
SubDirectory	VN120424	HP Acquire Method	HP Processing Method 82N112224W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP131905		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131906,VP131907		

19	P5088-03	UNIT-51-RS-SW001-01	VN085101.D	04 Dec 2024 18:01	vial A pH<2	JC\MD	Ok
20	P5088-04MS	UNIT-51-RS-SW001-01	VN085102.D	04 Dec 2024 18:25	vial A pH<2	JC\MD	Ok,M
21	P5088-05MSD	UNIT-51-RS-SW001-01	VN085103.D	04 Dec 2024 18:49	vial A pH<2	JC\MD	Ok,M
22	VSTDCCC050	VSTDCCC050EC	VN085104.D	04 Dec 2024 19:13		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN120524

Review By	John Carlone	Review On	12/6/2024 9:40:04 AM
Supervise By	Mahesh Dadoda	Supervise On	12/6/2024 12:56:09 PM
SubDirectory	VN120524	HP Acquire Method	HP Processing Method 82N112224W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP131950
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131951,VP131952

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085105.D	05 Dec 2024 08:29		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN085106.D	05 Dec 2024 10:50	V13516	JC\MD	Ok,M
3	VN1205MBL01	VN1205MBL01	VN085107.D	05 Dec 2024 11:25		JC\MD	Ok
4	VN1205WBL01	VN1205WBL01	VN085108.D	05 Dec 2024 11:49		JC\MD	Ok
5	VN1205WBS01	VN1205WBS01	VN085109.D	05 Dec 2024 12:13		JC\MD	Ok,M
6	VN1205WBSD01	VN1205WBSD01	VN085110.D	05 Dec 2024 12:46		JC\MD	Ok,M
7	IBLK	IBLK	VN085111.D	05 Dec 2024 13:11		JC\MD	Ok
8	IBLK	IBLK	VN085112.D	05 Dec 2024 13:35		JC\MD	Ok
9	P5088-01	TB-241203-01	VN085113.D	05 Dec 2024 13:59	vial B pH<2 TB	JC\MD	Ok
10	VN1205WBSD02	VN1205WBSD02	VN085114.D	05 Dec 2024 14:23	Not req.	JC\MD	Not Ok
11	VSTDCCC050	VSTDCCC050EC	VN085115.D	05 Dec 2024 17:00		JC\MD	Ok,M

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : P5088

Test : VOCMS Group1

Prepbatch ID :

Sequence ID/Qc Batch ID: vn120424,VN120524,

Standard ID :

VP128762,VP128766,VP130430,VP131134,VP131746,VP131767,VP131905,VP131906,VP131907,VP131950,VP131951,VP131952,

Chemical ID :

V12794,V12798,V13391,V13444,V13462,V13463,V13707,V13797,V13810,V14018,V14019,V14107,V14108,V14145,V14147,V14150,V14154,V14171,V14172,V14203,V14206,V14215,V14289,V14436,V14443,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>
1810	8260 Working Std(2-CVE)-800ppm	VP128762	07/01/2024	12/11/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
								07/02/2024

FROM 0.50000ml of V12798 + 1.50000ml of V12794 + 23.00000ml of V14147 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
719	8260 Working STD (BCM)-First source, 400PPM	VP128766	07/01/2024	12/11/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
								07/02/2024

FROM 1.50000ml of V13462 + 1.50000ml of V13463 + 12.00000ml of V14147 = Final Quantity: 15.000 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>
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>
257	8260 Calibration Working STD Mix-First source, 160PPM	VP131134	10/28/2024	12/07/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
10/30/2024								

FROM 0.40000ml of V13444 + 1.00000ml of V13797 + 1.00000ml of V13810 + 1.00000ml of V14018 + 1.00000ml of V14019 + 1.00000ml of V14107 + 1.00000ml of V14108 + 1.00000ml of V14171 + 1.00000ml of V14172 + 1.00000ml of V14203 + 1.00000ml of V14436 + 1.00000ml of V14443 + 1.50000ml of V14206 + 1.50000ml of V14215 + 10.60000ml of V14150 = Final Quantity: 25.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
247	8260 Internal Standard, 250PPM	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

<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

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>
589	BFB TUNE CHECK	VP131905	12/04/2024	12/05/2024	John Carlone	None	None	Maresh Dadoda
12/04/2024								

FROM 39.98400ml of W3112 + 0.01600ml of VP131767 = 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	VP131906	12/04/2024	12/05/2024	John Carlone	None	None	Maresh Dadoda
12/04/2024								

FROM 39.94450ml of W3112 + 0.00500ml of VP128766 + 0.00500ml of VP130430 + 0.00800ml of VP131746 + 0.01250ml of VP128762 + 0.01250ml of VP131134 = 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	VP131907	12/04/2024	12/05/2024	John Carlone	None	None	Maresh Dadoda
FROM 39.94450ml of W3112 + 0.00500ml of VP128766 + 0.00500ml of VP130430 + 0.00800ml of VP131746 + 0.01250ml of VP128762 + 0.01250ml of VP131134 = 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>
589	BFB TUNE CHECK	VP131950	12/05/2024	12/06/2024	John Carlone	None	None	Maresh Dadoda
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	VP131951	12/05/2024	12/06/2024	John Carlone	None	None	Maresh Dadoda
FROM 39.94450ml of W3112 + 0.00500ml of VP128766 + 0.00500ml of VP130430 + 0.00800ml of VP131746 + 0.01250ml of VP128762 + 0.01250ml of VP131134 = 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	VP131952	12/05/2024	12/06/2024	John Carlone	None	None	Maresh Dadoda
FROM 39.94450ml of W3112 + 0.00500ml of VP128766 + 0.00500ml of VP130430 + 0.00800ml of VP131746 + 0.01250ml of VP128762 + 0.01250ml of VP131134 = 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 #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	121321	12/13/2024	06/25/2024 / SAM	03/30/2022 / SAM	V12794

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	121321	12/13/2024	06/25/2024 / SAM	03/30/2022 / SAM	V12798

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	12/14/2024	06/14/2024 / SAM	01/23/2023 / SAM	V13444

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	01/01/2025	07/01/2024 / SAM	01/27/2023 / SAM	V13462

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	01/01/2025	07/01/2024 / SAM	01/27/2023 / SAM	V13463

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 #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0194279	04/17/2025	10/17/2024 / SAM	05/31/2023 / SAM	V13797

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	A0194279	04/17/2025	10/17/2024 / SAM	05/31/2023 / SAM	V13810

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)	032922	03/16/2025	09/16/2024 / SAM	11/22/2023 / SAM	V14018

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)	032922	03/16/2025	09/16/2024 / SAM	11/22/2023 / SAM	V14019

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	A0205179	04/17/2025	10/17/2024 / SAM	12/22/2023 / SAM	V14107

LOTS

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE	A0205179	03/16/2025	09/16/2024 / SAM	12/22/2023 / SAM	V14108

LOTS

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	12/11/2024	06/11/2024 / pedro	02/06/2024 / SAM	V14147

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	04/23/2025	10/23/2024 / Rajesh	02/06/2024 / SAM	V14150

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	03/16/2025	09/16/2024 / SAM	02/20/2024 / SAM	V14171

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	03/16/2025	09/16/2024 / SAM	02/20/2024 / SAM	V14172

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	04/17/2025	10/17/2024 / SAM	02/28/2024 / SAM	V14203

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	04/17/2025	10/17/2024 / SAM	02/28/2024 / SAM	V14206

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	03/16/2025	09/16/2024 / SAM	02/28/2024 / SAM	V14215

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/30/2025	09/16/2024 / SAM	08/15/2024 / SAM	V14436

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	03/16/2025	09/16/2024 / SAM	08/15/2024 / SAM	V14443

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 / Iwona	07/03/2024 / Iwona	W3112



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**

Formulated By: <i>Prashant Chauhan</i>		021624
		DATE
Reviewed By: <i>Pedro L. Rentes</i>		021624
		DATE

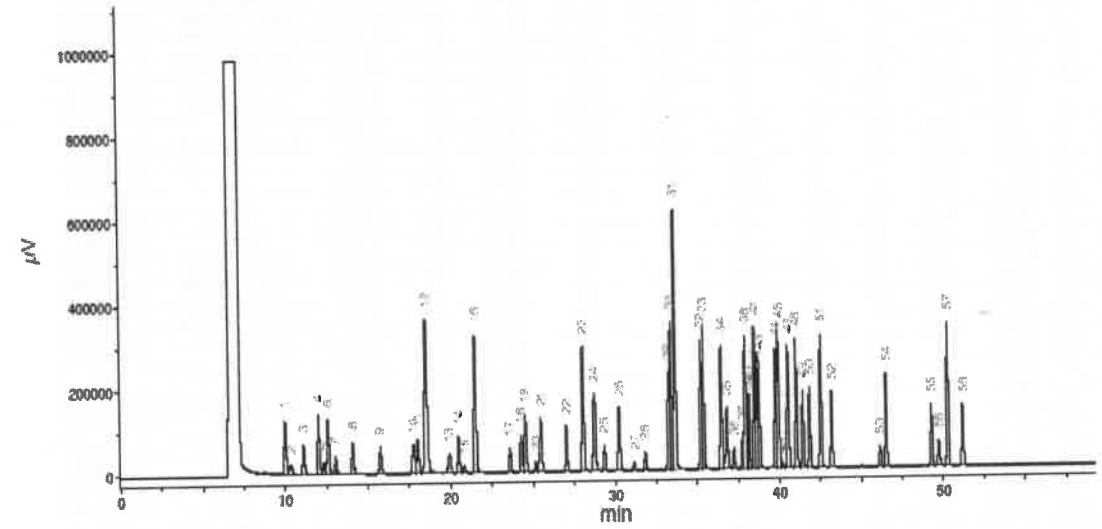
Weight(s) shown below were combined and diluted to (mL): **100.0** **0.021** Balance Uncertainty: **5E-05** Flask Uncertainty: **0.021**

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)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	6.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CA5000K	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06126PK	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	N/A
8. Iodomethane	(0489)	5HBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm (28mg/m3/8H) (skin)	or-rat 14800mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	or-rat 70mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H) (skin)	or-rat 1200mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm (35mg/m3/8H) (skin)	or-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	or-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H) (skin)	or-rat 700mg/kg
14. 2-Nitropropane	(0481)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg
15. Perfluorooctane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.8	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	N/A
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 1235mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.6	22.9	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 930mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	or-rat 900mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	or-rat 100mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	or-rat 100mg/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	N/A	N/A
29. Tetrachloroethane	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-6	0.001 ppm	or-rat 170mg/kg
32. 1,2-Dibromomethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	or-rat 100mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-08-2	50 ppm (8H)	or-rat 870mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-57-5	75 ppm (350mg/m3/8H)	or-rat 1947mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	un-rat 3600mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	22.9	563-56-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	22.9	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	or-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H) (skin)	or-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (46mg/m3/8H) (skin)	or-rat 636mg/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 (60mg/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	1999.8	22.9	99-87-6	N/A	or-rat 4750mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 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	1999.8	22.9	106-98-3	200 ppm	or-rat 5000mg/kg
52. Toluene	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
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 750mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	23.0	95-63-6	N/A	or-rat 5g/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-67-8	N/A	or-rat 5000mg/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	N/A	N/A
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	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	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 3900mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	or-rat 2100mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.8	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	1999.6	23.0	541-73-1	N/A	or-rat 1063mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6				

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	17.74
11	cis-1,2-Dichloroethane	18.00
12	Methacrylonitrile/methyl acrylate/Chloroform	18.46
13	Isobutane/1,1,1-Trichloroethane	19.01
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethane	23.58
18	1,2-Dichloropropane	24.38
19	Methyl methacrylate	24.52
20	Bromochloromethane	25.13
21	Dibromomethane/2-Helopropene	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropene	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromomethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	35.22
33	Styrene	35.39
34	Isopropylbenzene/Bromoforn	36.18
35	cis-1,4-Dichloro-3-Butene	36.48
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropene	37.77
38	n-Propylbenzene	37.99
39	trans-1,4-Dichloro-3-Butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.74
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.46
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.	
Personal protective equipment	Respiratory protection. Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC. DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



CERTIFIED WEIGHT REPORT

Part Number: **95317**
Lot Number: **021624**
Description: **Universal VOA Megamix**
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 8UTB

Solvent(s): **Methanol**
Lot# **EG359-USQ12**

<i>Prashant Chauhan</i>		021624
Formulated By:	Prashant Chauhan	DATE
<i>Pedro L. Rentes</i>		021624
Reviewed By:	Pedro L. Rentes	DATE

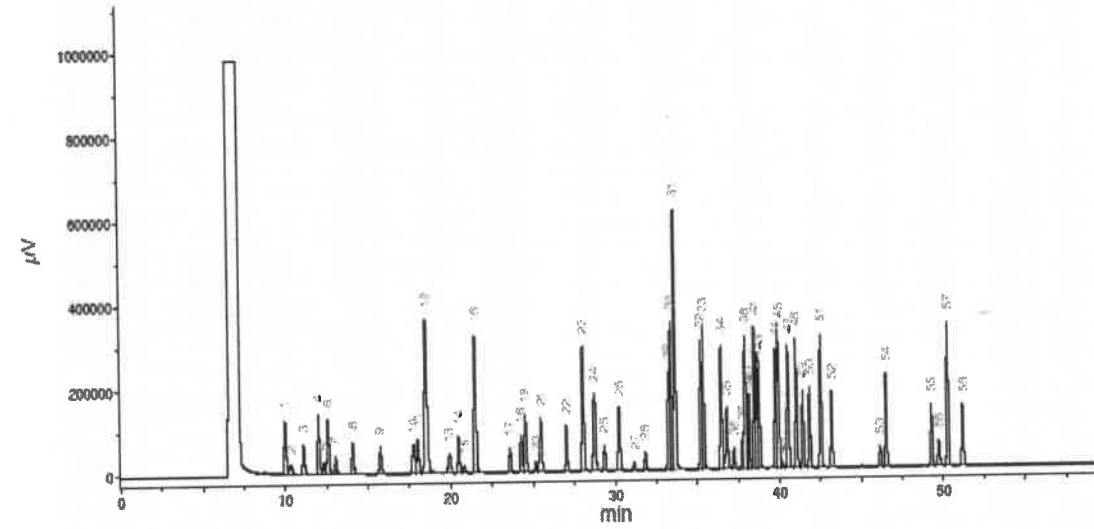
Weight(s) shown below were combined and diluted to (mL): **100.0** **0.021** Balance Uncertainty
Flask Uncertainty

Compound	(RM#)	Lot	Di.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information		
	Part Number	Number	Factor	Vol. (mL)	Conc. (µg/mL)	Conc (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc (µg/mL)	(+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	or-rat 2400mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102395	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	or-rat 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 240mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H) (skin)	or-rat 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	(0481)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg
15. Perfluorooctane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.8	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	40051.0	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	22.9	563-56-6	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	22.9	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	or-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H) (skin)	or-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (46mg/m3/8H) (skin)	or-rat 836mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	or-rat 2400mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (50mg/m3/8H)	or-rat 149.6mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4694mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	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	1999.5	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000										

Run 16, "P95317 L021624 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.24
11	cis-1,2-Dichloroethane	18.00
12	Methacrylonitrile/methyl acrylate/Chloroform	18.46
13	Isobutane/1,1,1-Trichloroethane	19.01
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethane	23.58
18	1,2-Dichloropropane	24.38
19	Methyl methacrylate	24.52
20	Bromochloromethane	25.13
21	Dibromomethane/2-Hydropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropene	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromomethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	35.22
33	Styrene	35.39
34	Isopropylbenzene/Bromoforn	36.18
35	cis-1,4-Dichloro-3-butene	36.48
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropene	37.77
38	n-Propylbenzene	37.93
39	trans-1,4-Dichloro-3-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.74
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.46
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.	
Personal protective equipment	Respiratory protection. Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



CERTIFIED WEIGHT REPORT

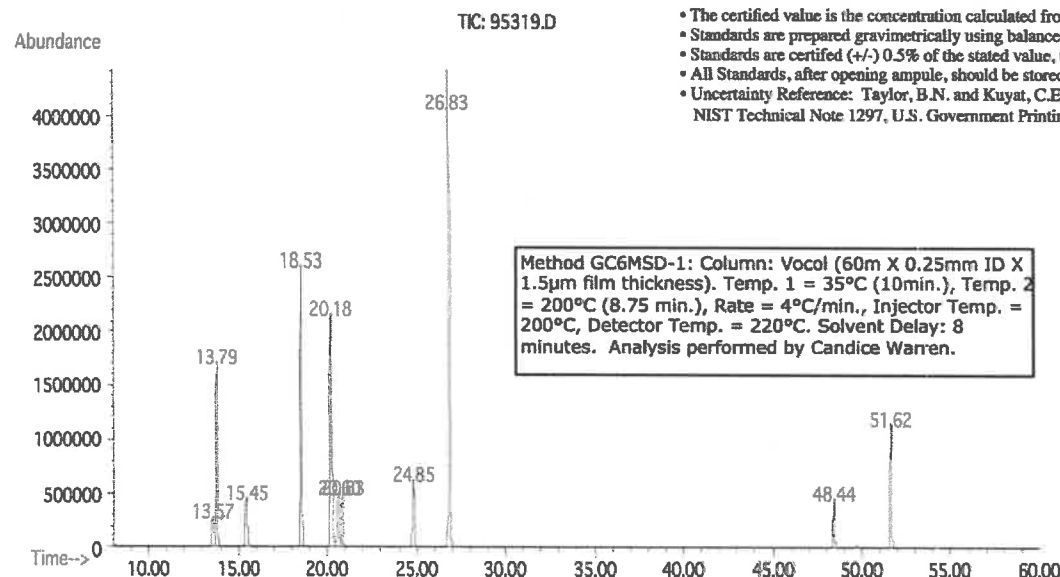
Part Number: **95319**
Lot Number: **032922**
Description: **Revised Additions Mix**
11 components

Solvent(s): **Lot#**
Methanol EC592-US

Expiration Date: **032925**Recommended Storage: **Refrigerate (4 °C)**Nominal Concentration (µg/mL): **Varied**NIST Test ID#: **6UTB****5E-05 Balance Uncertainty**Weight(s) shown below were combined and diluted to (mL): **100.0 0.012 Flask Uncertainty**

Prashant Chauhan **032922**
Formulated By: **Prashant Chauhan** DATE
Pedro L. Rentas **032922**
Reviewed By: **Pedro L. Rentas** DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrylonitrile	7	4718CK	10000	99	0.2	1.01015	1.01030	10001.5	40.5	107-13-1	N/A	ori-rat 78 mg/kg
2. 1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20003	0.20020	2001.7	8.1	109-69-3	N/A	ori-rat 2670mg/kg
3. Cyclohexane	1023	28930	2000	99	0.2	0.20203	0.20215	2001.2	8.2	110-82-7	300 ppm (1050mg/m3/8H)	ori-rat 12705mg/kg
4. Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-20-3	500 ppm (2100mg/m3/8H)	ori-rat 8470mg/kg
5. 1,4-Dioxane	373	03853KE	40000	99	0.2	4.04060	4.04100	40004.0	161.9	123-91-1	25 ppm (90mg/m3/8H)(skin)	ori-mus 5700mg/kg
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20203	0.20213	2001.0	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	ori-gpg 4970mg/kg
7. Methylcyclohexane	1627	08046KN	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-87-2	N/A	N/A
8. Methyl tert-butyl ether (MTBE)	209	02197JJ	2000	99.8	0.2	0.20041	0.20055	2001.4	8.1	1634-04-4	N/A	ori-rat 4g/kg
9. Propionitrile	349	1395468	20000	99	0.2	2.02030	2.02045	20001.5	81.0	107-12-0	N/A	ori-rat 39mg/kg
10. Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00105	1.00120	10001.5	40.1	109-99-9	20 ppm (590mg/m3/8H)	ori-rat 1650mg/kg
11. 1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21506	0.21520	2001.3	8.7	488-23-3	N/A	ori-rat 6408mg/kg



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62

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 Rosotto 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:	CAS#:	LD50 Oral - Rat	OSHA PEL	% (optional)
Methanol	67-56-1	2,769 mg/kg	200 ppm	> 99

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 WEIGHT REPORT

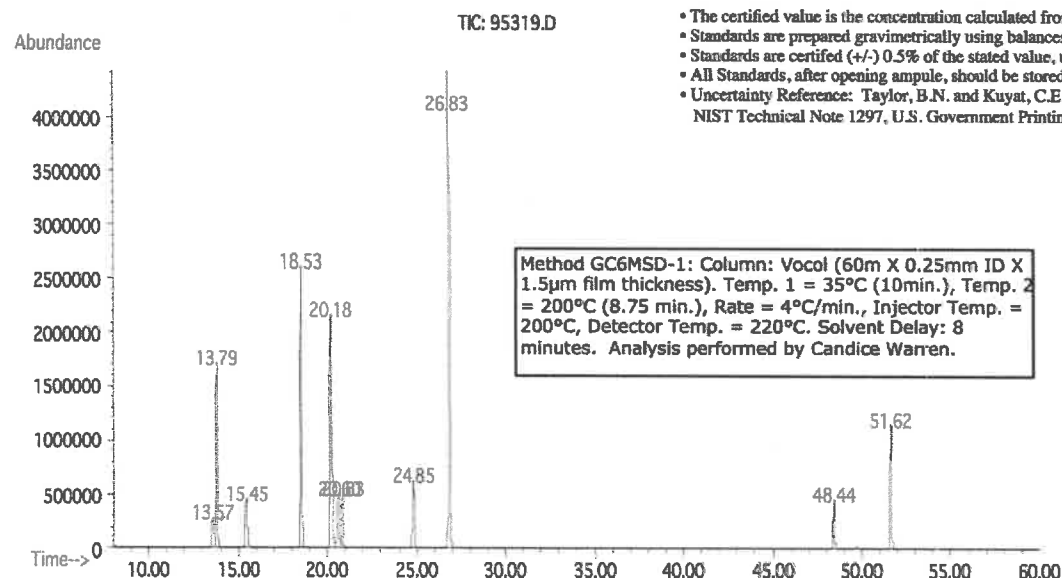
Part Number: **95319**
Lot Number: **032922**
Description: **Revised Additions Mix**
11 components

Solvent(s): **Lot#**
Methanol EC592-US

Expiration Date: **032925**Recommended Storage: **Refrigerate (4 °C)**Nominal Concentration (µg/mL): **Varied**NIST Test ID#: **6UTB****5E-05 Balance Uncertainty**Weight(s) shown below were combined and diluted to (mL): **100.0 0.012 Flask Uncertainty**

Prashant Chauhan **032922**
Formulated By: **Prashant Chauhan** DATE
Pedro L. Rentas **032922**
Reviewed By: **Pedro L. Rentas** DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrylonitrile	7	4718CK	10000	99	0.2	1.01015	1.01030	10001.5	40.5	107-13-1	N/A	ori-rat 78 mg/kg
2. 1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20003	0.20020	2001.7	8.1	109-69-3	N/A	ori-rat 2670mg/kg
3. Cyclohexane	1023	28930	2000	99	0.2	0.20203	0.20215	2001.2	8.2	110-82-7	300 ppm (1050mg/m3/8H)	ori-rat 12705mg/kg
4. Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-20-3	500 ppm (2100mg/m3/8H)	ori-rat 8470mg/kg
5. 1,4-Dioxane	373	03853KE	40000	99	0.2	4.04060	4.04100	40004.0	161.9	123-91-1	25 ppm (90mg/m3/8H)(skin)	ori-mus 5700mg/kg
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20203	0.20213	2001.0	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	ori-gpg 4970mg/kg
7. Methylcyclohexane	1627	08046KN	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-87-2	N/A	N/A
8. Methyl tert-butyl ether (MTBE)	209	02197JJ	2000	99.8	0.2	0.20041	0.20055	2001.4	8.1	1634-04-4	N/A	ori-rat 4g/kg
9. Propionitrile	349	1395468	20000	99	0.2	2.02030	2.02045	20001.5	81.0	107-12-0	N/A	ori-rat 39mg/kg
10. Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00105	1.00120	10001.5	40.1	109-99-9	20 ppm (590mg/m3/8H)	ori-rat 1650mg/kg
11. 1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21506	0.21520	2001.3	8.7	488-23-3	N/A	ori-rat 6408mg/kg



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62

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 Rosotto 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:	CAS#:	LD50 Oral - Rat	OSHA PEL	% (optional)
Methanol	67-56-1	2,769 mg/kg	200 ppm	> 99

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.
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Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

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LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

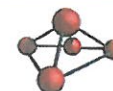
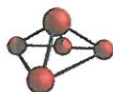
DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **121321**
Description: **2-Chloroethyl vinyl ether**

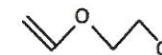
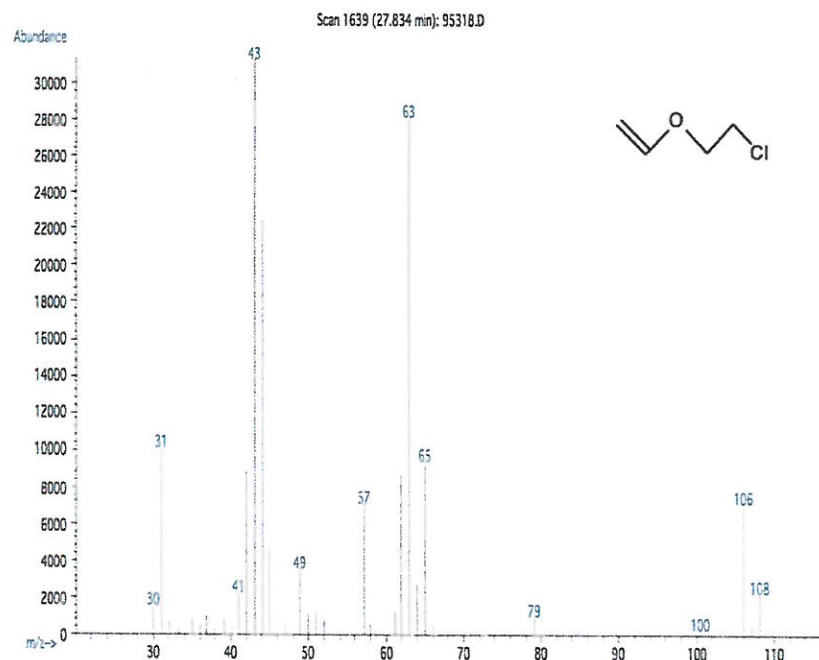
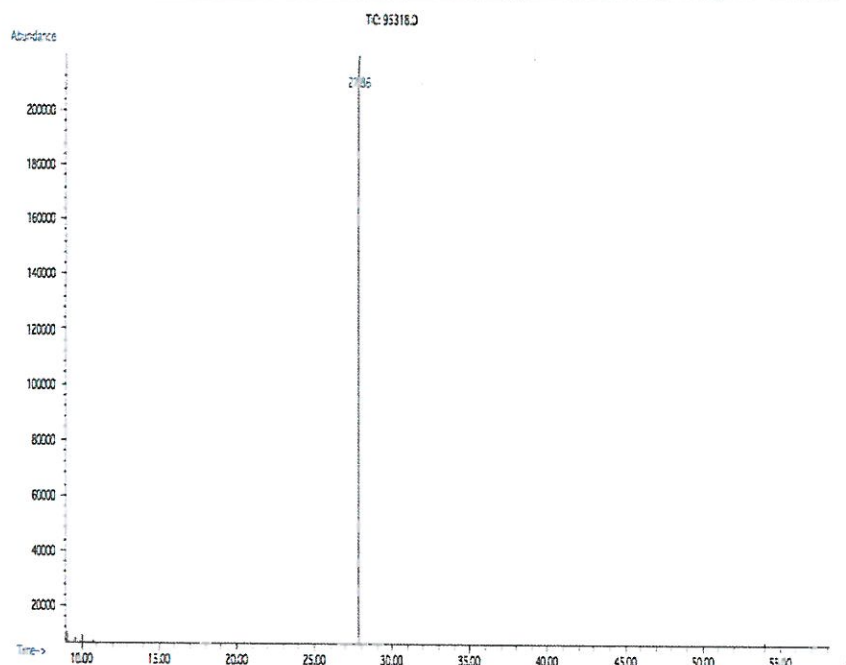
Solvent(s): **Methanol**
Lot#: **EA899-US**

		121321
Formulated By:	Benson Chan	DATE
		121321
Reviewed By:	Pedro L. Rentas	DATE

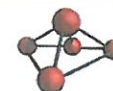
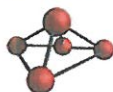
Expiration Date: **121324**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**
Weight(s) shown below were combined and diluted to (mL): **30.0**
5E-05 Balance Uncertainty
0.0003 Flask Uncertainty

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. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.30320	0.30411	10030.2	40.7	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp. = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **121321**
Description: **2-Chloroethyl vinyl ether**

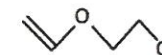
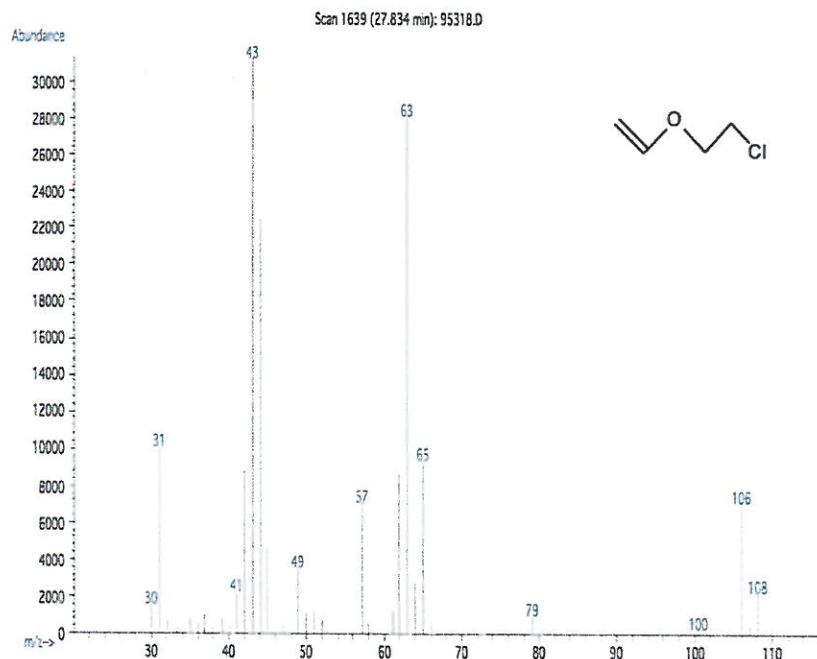
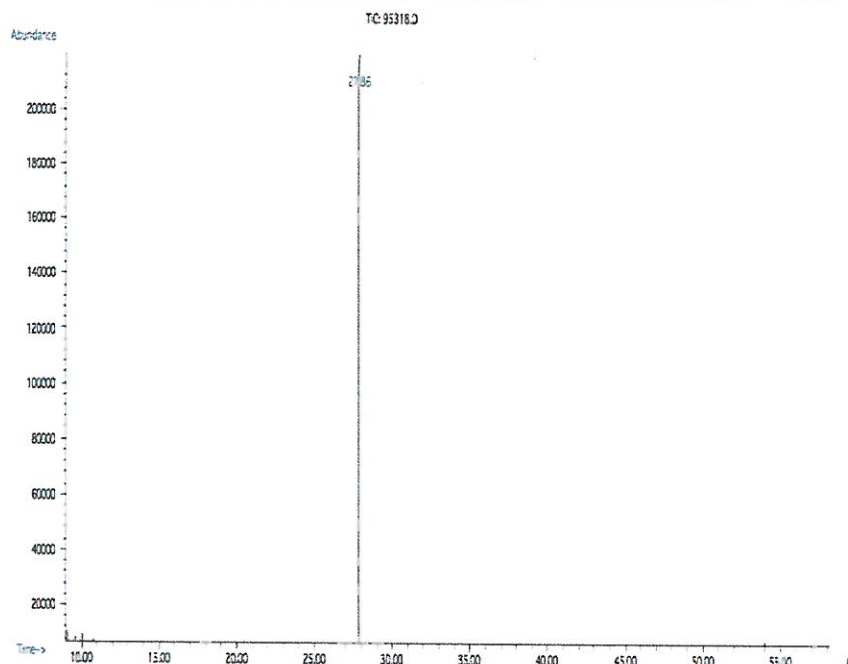
Solvent(s): **Lot#**
Methanol **EA899-US**

		121321
Formulated By:	Benson Chan	DATE
		121321
Reviewed By:	Pedro L. Rentas	DATE

Expiration Date: 121324
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 30.0
5E-05 Balance Uncertainty
0.0003 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. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.30320	0.30411	10030.2	40.7	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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- 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.
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- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



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)

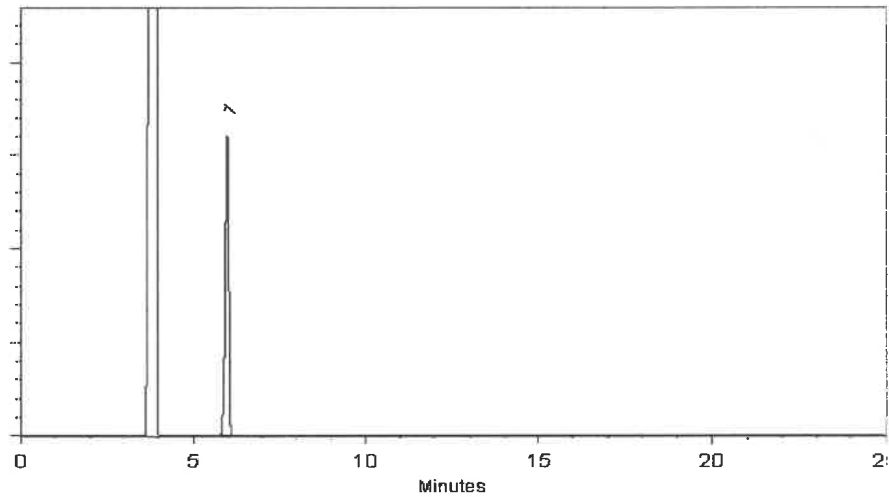
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

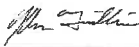
Inj. Temp:
200°C

Det. Temp:
250°C

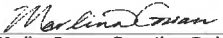
Det. Type:
FID



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.



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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. : 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:

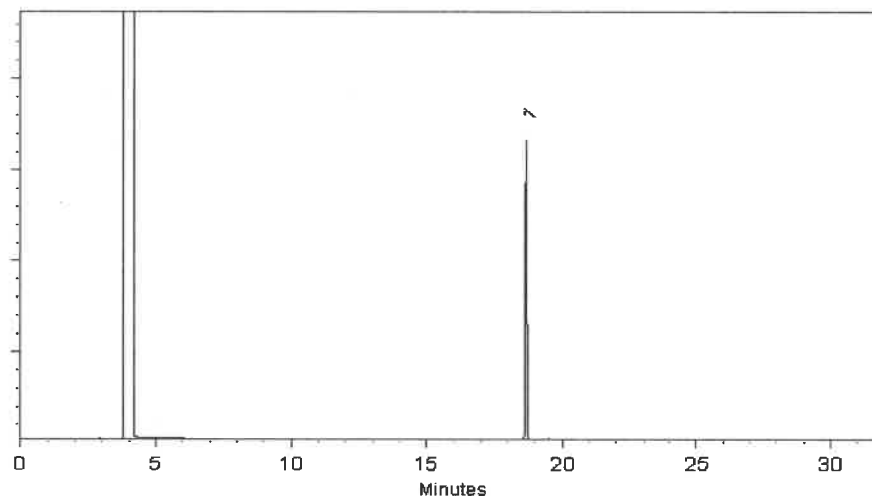
FID

Split Vent:

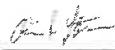
40 ml/min

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

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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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:

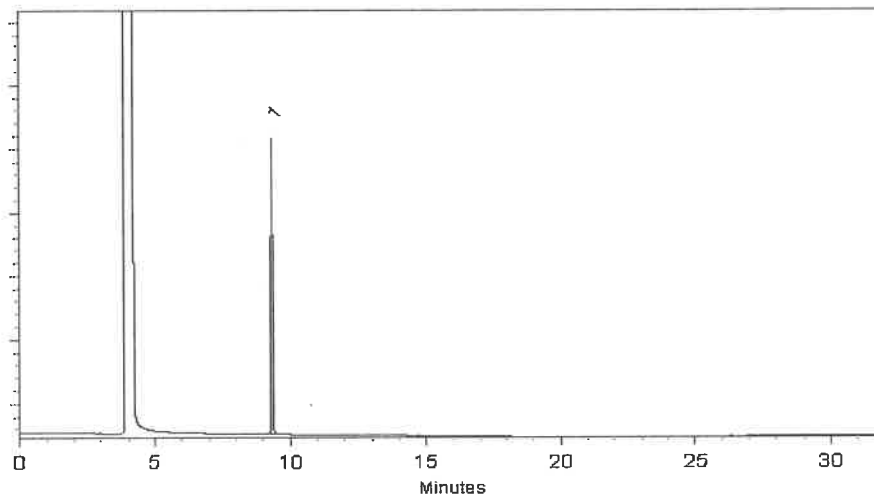
FID

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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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:

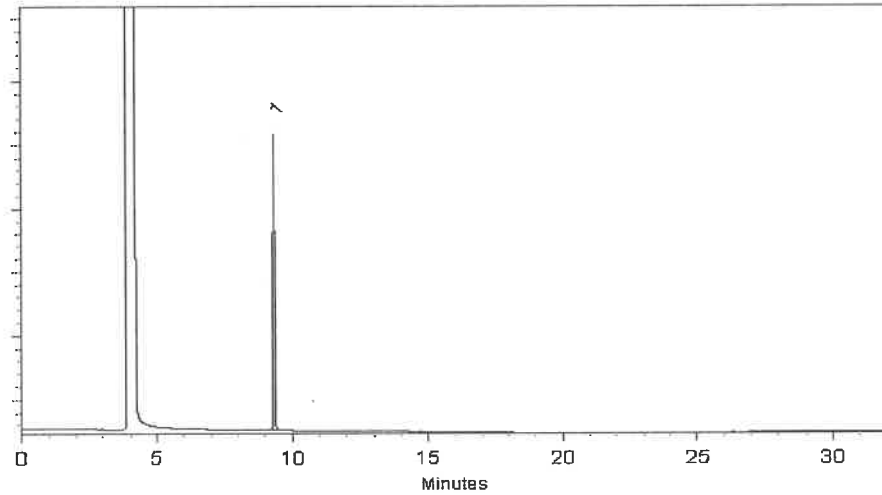
FID

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:

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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. : 30042 **Lot No.:** A0194279

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 : October 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00012554	99%	2,001.5 µg/mL	+/- 112.7231
2	Chloromethane (methyl chloride)	74-87-3	SHBK6571	99%	2,001.2 µg/mL	+/- 112.5863
3	Vinyl chloride	75-01-4	00015559	99%	2,001.4 µg/mL	+/- 112.6561
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8262
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,001.9 µg/mL	+/- 112.5897
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	2,000.8 µg/mL	+/- 112.6473

* 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:

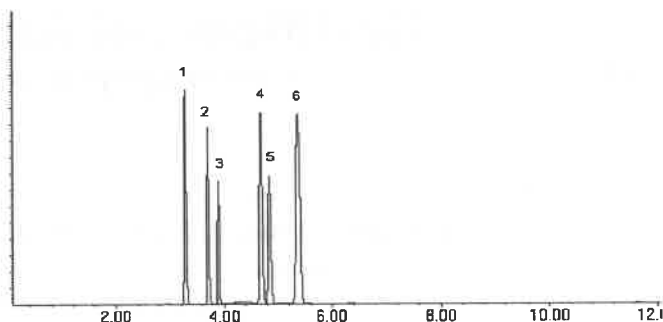
MSD

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 Suckar - Mix Technician

Date Mixed: 03-Feb-2023

Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 07-Feb-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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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.:** A0194279

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 : October 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00012554	99%	2,001.5 µg/mL	+/- 112.7231
2	Chloromethane (methyl chloride)	74-87-3	SHBK6571	99%	2,001.2 µg/mL	+/- 112.5863
3	Vinyl chloride	75-01-4	00015559	99%	2,001.4 µg/mL	+/- 112.6561
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8262
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,001.9 µg/mL	+/- 112.5897
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	2,000.8 µg/mL	+/- 112.6473

* 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:

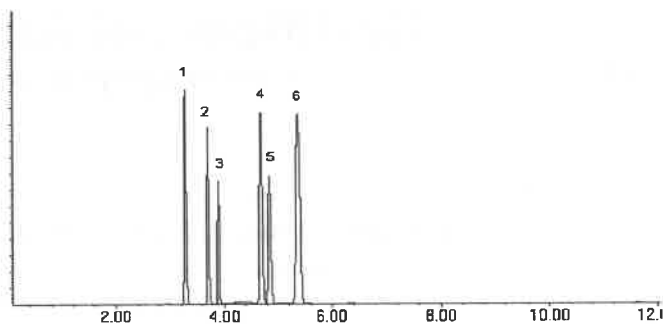
MSD

Split Vent:

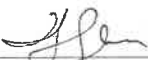
Split ratio 10:1

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 Suckar - Mix Technician

Date Mixed: 03-Feb-2023

Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 07-Feb-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

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0196865

Description : Custom 8260A/B Surrogate Mix
Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol,
1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-32845	99%	25,036.0 µg/mL	+/- 1,417.9179
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	25,132.0 µg/mL	+/- 1,423.3549
3	Dibromofluoromethane	1868-53-7	022013	99%	25,040.0 µg/mL	+/- 1,418.1445
4	Toluene-d8	2037-26-5	PR-33397	99%	25,028.0 µg/mL	+/- 1,417.4648

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2023

Balance: 1127510105

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- 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. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

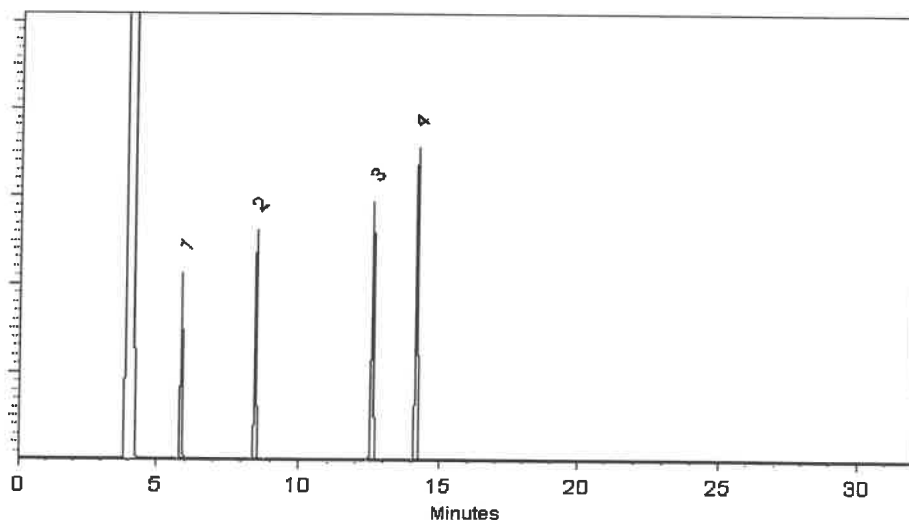
FID

Split Vent:

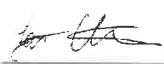
40 ml/min

Inj. Vol

1µl



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.


Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023

Balance Serial # B707717271


Marlina Cowan - Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

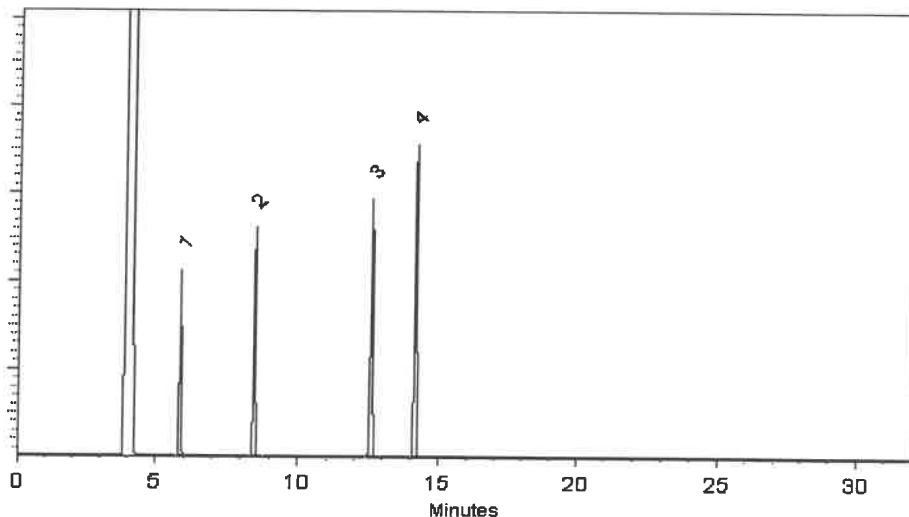
FID

Split Vent:

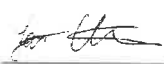
40 ml/min

Inj. Vol

1µl



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.


Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023

Balance Serial # B707717271


Marlina Cowan - Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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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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Handling Notes:

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

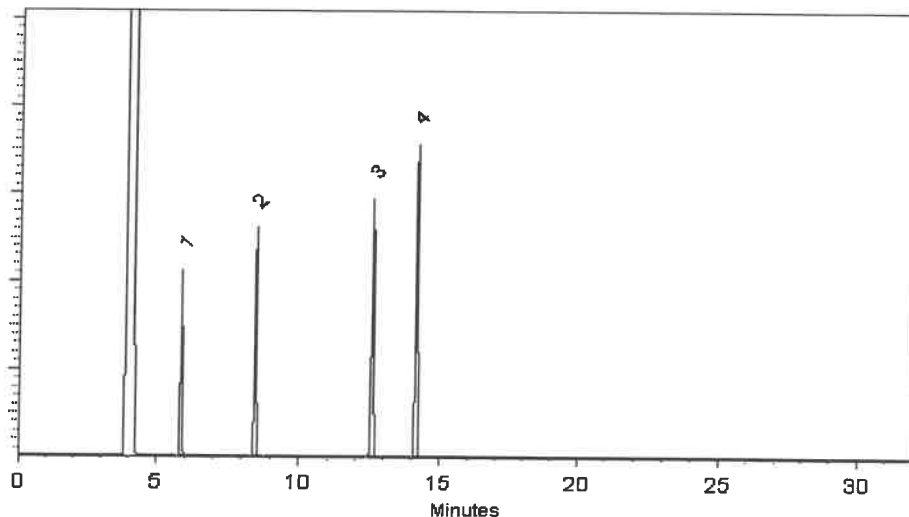
FID

Split Vent:

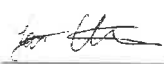
40 ml/min

Inj. Vol

1µl



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Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023

Balance Serial # B707717271


Marlina Cowan - Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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12
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic



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.:** A0205179
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, 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	Vinyl acetate	108-05-4	RP231030CTH	98%	8,075.2 µg/mL	+/- 279.1159

* 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:

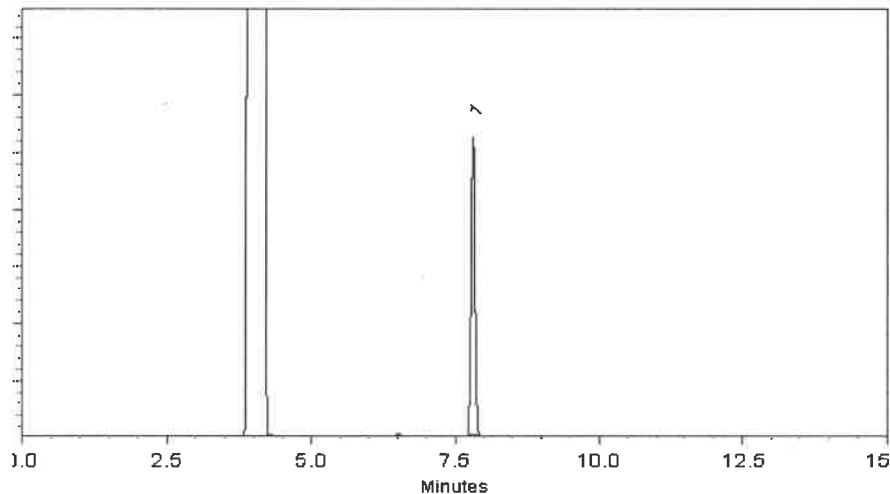
FID

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.


Daniel Wasson - Operations Tech I

Date Mixed: 06-Dec-2023 Balance Serial # 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Dec-2023

APPROVED
By: Jennifer Pollino (Date: 11-Dec-2023)

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0205179
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, 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	Vinyl acetate	108-05-4	RP231030CTH	98%	8,075.2 µg/mL	+/- 279.1159

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

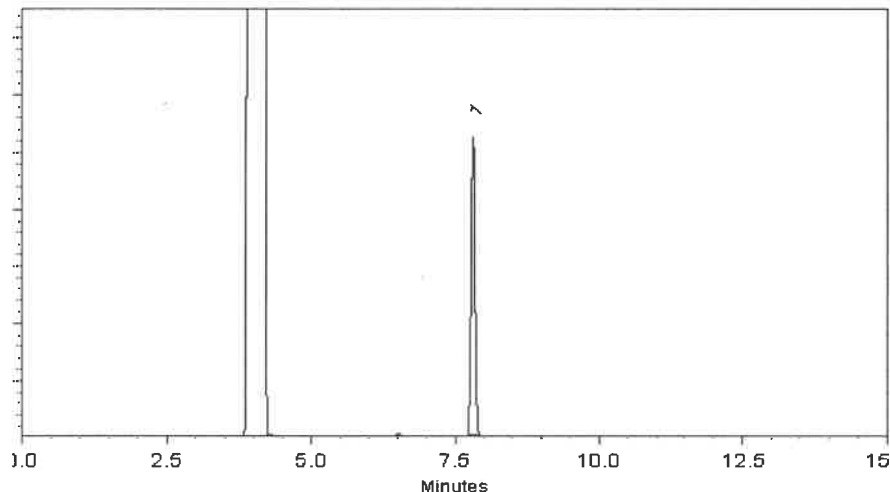
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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Daniel Wasson - Operations Tech I

Date Mixed: 06-Dec-2023 Balance Serial # 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Dec-2023

APPROVED
By: Jennifer Pollino (Date: 11-Dec-2023)

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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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.)

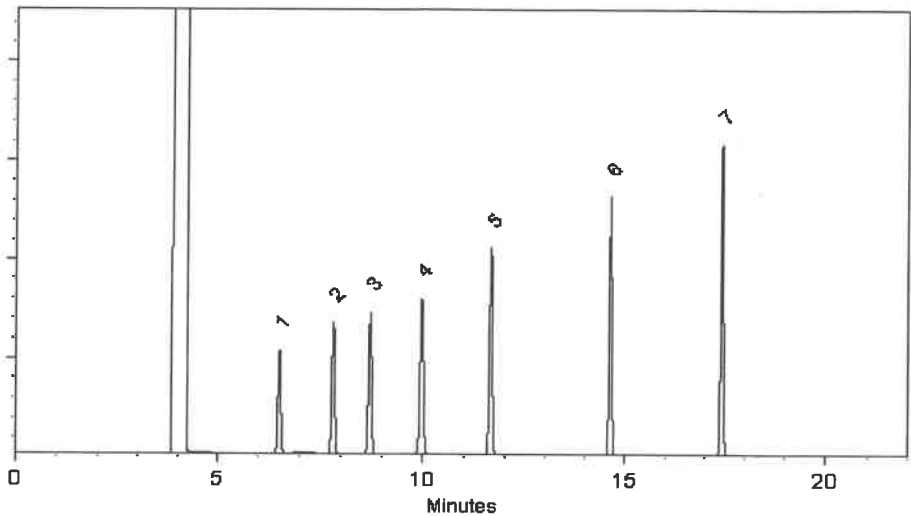
Inj. Temp:
200°C

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:

- 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

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix
8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

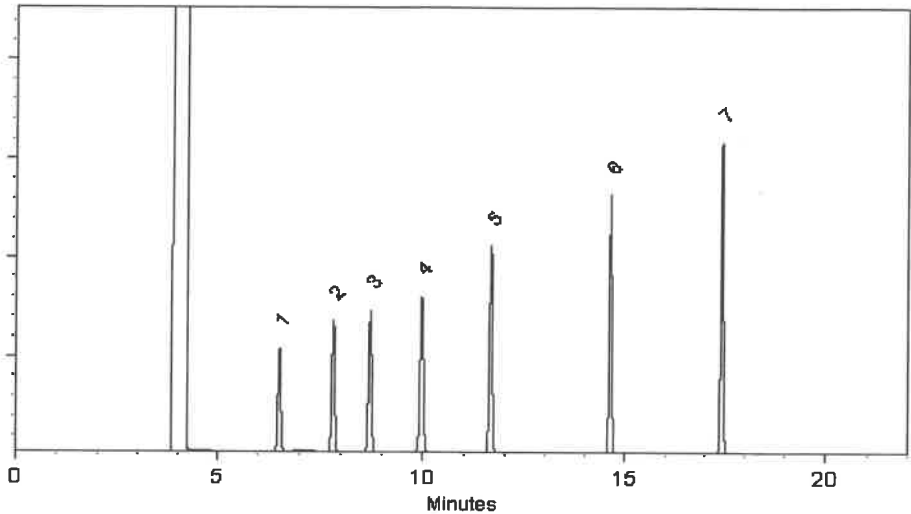
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 Balance Serial # B707717271

Dylan Murphy
Dylan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555581 **Lot No.:** A0210184

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

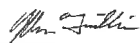
Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%


John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024

Balance: 1127510105

REVISED
By Restek America, Inc. 11/15/24

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.

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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (µeq/g)	≤ 0.3	0.2
Titration Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
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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
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For Laboratory, Research, or Manufacturing Use
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Jamie Ethier
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Methanol
ULTRA RESI-ANALYZED
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Material No.: 9077-02
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Manufactured Date: 2022-10-26
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Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

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500 Series for Drinking Water
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846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality



SHIPPING DOCUMENTS

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

AirbillNo: 770381799804

CHAIN OF CUSTODY RECORD

RF Site #: 890

Contact Name: Alexandria Petrosch

Contact Phone: (908) 565-2980

No: 2-120124-0030-0161-02

Cooler #: 1

Lab: An Alliance Technical Group Company

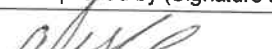
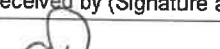
Lab Phone: 908-728-3144

[illegible]

Special Instructions: Please email results to S.Sumbaly@westonsolutions.com and Alexandria.Petrosh@westonsolutions.com
Only compounds specified in RFP 890 required to be reported.
TAT 7 days preliminary 7 days final

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 STATIST V	12/3/24 12:00		10:20 12-3-24	1.9.~ Custody Seal Intact Tup Block present



Weston Solutions, Inc.
1090 King Georges Post Road, Suite 201
Edison, New Jersey 08837-3703
Phone: 732-585-4400
www.westonsolutions.com

SUPERFUND TECHNICAL ASSESSMENT & RESPONSE TEAM V
EPA CONTRACT NO.: 68HE0319D0004

December 3, 2024

Laboratory Name: Alliance Technical Group LLC (Chemtech)

Laboratory Contact: Jordan Hedvat

RFP No.: 890

COOLER RETURN

This letter requests that your laboratory returns all sample coolers to the above address within 14 calendar days following receipt of the sample shipment. In accordance with the terms and conditions established in the Request for Proposal, all shipping and freight costs for the return of the coolers are the contract laboratory's responsibility.

Weston Solutions, Inc. greatly appreciates your cooperation in this matter. If you have any questions, please contact Tim Benton at 732-585-4425.

Sincerely,

WESTON SOLUTIONS, INC.

A handwritten signature in black ink, appearing to read "Alexandria Petrosch".

Alexandria Petrosch
START V Site Project Manager

an employee-owned company



In association with Eco-Risk, Pro-West & Associates, Inc., Avatar Environmental, LLC,
On-Site Environmental, Inc., and Sovereign Consulting, Inc.

Precautionary Measures Against Hidden Hazards in Laboratory Samples

Notice to Laboratory Personnel

Background

Under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund) of 1980, as amended, Section 311 of the Clean Water Act (CWA), as amended, by the Oil Pollution Act of 1990, Subtitle I of the Resource Conservation and Recovery Act (RCRA), an pursuant to the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) and Presidential Decision Document (PDD) #39, the Environmental Protection Agency (EPA) has been delegated the responsibility to undertake response actions with respect to, as a general matter, the release or threat of release of oil, petroleum products, hazardous substances, or pollutants and contaminants, that pose an actual or potential threat to human health or welfare, or to the environment. EPA is responsible for conducting evaluations and cleanups of uncontrolled hazardous substance disposal sites and placing those that are considered to pose a significant threat to the public health or the environment on the National Priorities List (NPL).

EPA's successful implementation of these emergency response action responsibilities requires that technical support capabilities be provided in the form of a contracted Superfund Technical Assessment & Response Team (START) for EPA. The WESTON START Contract 68HE0319D0004, provides this support to EPA Region II.

Hazardous Communication

The Samples which accompany this notice were shipped to your laboratory for analysis in accordance with applicable D.O.T. or IATA Regulations and were collected by the WESTON START and tentatively designated by the field response team, as either environmental or hazardous material samples.

In general, *Environmental Samples* are collected from streams, farm ponds, small lakes, wells, and off-site soil locations that are not reasonably expected to be contaminated with hazardous materials. Samples of on-site soils or water, and materials collected from drums, bulk storage tanks, obviously contaminated ponds, impoundments, lagoons, pools, and leachates from hazardous waste sites are considered *Hazardous Samples*. Samples which are obtained from a known radioactive material contamination site or which demonstrate beta or gamma activity greater than three times average background as scanned with a radiation survey meter are considered *Radioactive Samples*.

The samples which accompany this notice were tentatively classified by the field response team as:
☒ Environmental ☐ Hazardous ☐ Comb (Envir. & Haz) ☐ Radioactive

The field team which collected the samples used the following Level(s) of personal protection as designated by EPA and OSHA conventions to provide protection against possible radiological or chemical exposure:

☐ Level A ☐ Level B ☐ Level C ☒ Level D

This information is intended for use as a guide for the safe handling of these laboratory samples in accordance with EPA and OSHA regulations. The Sample classification(s) and Levels of personal protection used by the WESTON START are not represented to be, nor are they adequate or applicable in all situations, nor are they intended to serve as substitutes for professional/personal judgement.

Laboratory Name: Alliance RFP No. 890

Prepared by: Alexander P. Pash Date 12/3/24

WESTON Office: Region II START, Edison, New Jersey; Phone: 732-585-4400

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 : P5088 ROYF02

Order Date : 12/4/2024 11:26:21 AM

Project Mgr :

Client Name : Weston Solutions, Inc.

Project Name : RFP 890

Report Type : Level 4

Client Contact : Smita Sumbaly

Receive DateTime : 12/4/2024 10:20:00 AM

EDD Type : Equis Region2(MEDD)

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
P5088-01	TB-241203-01	Water	12/03/2024	10:15					
					VOCMS Group1		8260-Low	10 Bus. Days	
P5088-02	UNIT-51-FS-SW001-01	Water	12/03/2024	10:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
P5088-03	UNIT-51-RS-SW001-01	Water	12/03/2024	09:50					
					VOCMS Group1		8260-Low	10 Bus. Days	
P5088-04	P5088-03MS	Water	12/03/2024	09:50					
					VOCMS Group1		8260-Low	10 Bus. Days	
P5088-05	P5088-03MSD	Water	12/03/2024	09:50					
					VOCMS Group1		8260-Low	10 Bus. Days	
P5088-06	UNIT-51-RS-SW001-02	Water	12/03/2024	09:55					
					VOCMS Group1		8260-Low	10 Bus. Days	

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P5088	ROYF02	Order Date : 12/4/2024 11:26:21 AM	Project Mgr :
Client Name : Weston Solutions, Inc.		Project Name : RFP 890	Report Type : Level 4
Client Contact : Smita Sumbaly		Receive DateTime : 12/4/2024 10:20:00 AM	EDD Type : Equis Region2(MEDD)
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

Relinquished By : af

Date / Time : 12-4-24 1435

Received By : Sam

Date / Time : 12/4/24 14:35 Net 4

Storage Area : VOA Refridgerator Room