

Cover Page

Order ID : P3451

Project ID : Former Schlumberger Site Princeton NJ

Client : JACOBS Engineering Group, Inc.

Lab Sample Number

P3451-01
P3451-02

Client Sample Number

921-J-WS-080124
TB-03-080124

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: 10/14/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ

Project # N/A

Chemtech Project # P3451

Test Name: VOCMS Group6

A. Number of Samples and Date of Receipt:

2 Water samples were received on 08/01/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium, Mercury, Metals Group4, SVOCMS Group3, SVOCMS Group6 and VOCMS Group6. This data package contains results for VOCMS Group6.

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 Group6 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. Additional Comments:

This data package has been revised due to parameter list changed

Samples for MS/MSD for VOC analysis were not provided with this set of samples therefore lab used from another project.

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 <15% 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 > 15% for the Initial Calibration curve for SW-846 analysis.



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

F. Manual Integration Comments:

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

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

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

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

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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

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

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: P3451

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:			✓

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

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

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

NA NO YES

ADDITIONAL COMMENTS:

This data package has been revised due to parameter list changed

Samples for MS/MSD for VOC analysis were not provided with this set of samples therefore lab used from another project.

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 <15% 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 > 15% for the Initial Calibration curve for SW-846 analysis.

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P3451

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

✓

1st Level QA Review Signature: SOHIL JODHANI

Date: 10/14/2024

2nd Level QA Review Signature: _____

Date: _____

LAB CHRONICLE

OrderID:	P3451	OrderDate:	8/1/2024 4:38:00 PM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger Site Princeton NJ
Contact:	Mary I. Murphy	Location:	D31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3451-01	921-J-WS-080124	Water	VOCMS Group6	8260-Low	08/01/24		08/14/24	08/01/24
P3451-02	TB-03-080124	Water	VOCMS Group6	8260-Low	08/01/24		08/14/24	08/01/24



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

Hit Summary Sheet
SW-846

SDG No.: P3451
Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	921-J-WS-080124							
P3451-01	921-J-WS-080124	Water	Acetone	10.7		1.40	5.00	ug/L
P3451-01	921-J-WS-080124	Water	Toluene	2.00		0.18	1.00	ug/L
			Total Voc :			12.7		
			Total Concentration:			12.7		



QC SUMMARY

Surrogate Summary

SDG No.: **P3451**

Client: **JACOBS Engineering Group, Inc.**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P3451-01	921-J-WS-080124	1,2-Dichloroethane-d4	50	57.0	114	70 (74)	130 (125)
		Dibromofluoromethane	50	52.6	105	70 (75)	130 (124)
		Toluene-d8	50	53.3	107	70 (86)	130 (113)
		4-Bromofluorobenzene	50	57.9	116	70 (77)	130 (121)
P3451-02	TB-03-080124	1,2-Dichloroethane-d4	50	56.8	114	70 (74)	130 (125)
		Dibromofluoromethane	50	52.3	105	70 (75)	130 (124)
		Toluene-d8	50	53.3	107	70 (86)	130 (113)
		4-Bromofluorobenzene	50	55.8	112	70 (77)	130 (121)
P3466-02MS	924-K1-WP0-0.25-080224MS	1,2-Dichloroethane-d4	50	58.3	117	70 (74)	130 (125)
		Dibromofluoromethane	50	54.5	109	70 (75)	130 (124)
		Toluene-d8	50	53.6	107	70 (86)	130 (113)
		4-Bromofluorobenzene	50	54.6	109	70 (77)	130 (121)
P3466-03MSD	924-K1-WP0-0.25-080224MSD	1,2-Dichloroethane-d4	50	59.2	118	70 (74)	130 (125)
		Dibromofluoromethane	50	52.7	105	70 (75)	130 (124)
		Toluene-d8	50	53.1	106	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.5	105	70 (77)	130 (121)
VN0813WBL02	VN0813WBL02	1,2-Dichloroethane-d4	50	56.2	112	70 (74)	130 (125)
		Dibromofluoromethane	50	52.5	105	70 (75)	130 (124)
		Toluene-d8	50	53.7	107	70 (86)	130 (113)
		4-Bromofluorobenzene	50	57.5	115	70 (77)	130 (121)
VN0813WBS03	VN0813WBS03	1,2-Dichloroethane-d4	50	57.3	114	70 (74)	130 (125)
		Dibromofluoromethane	50	54.1	108	70 (75)	130 (124)
		Toluene-d8	50	54.2	108	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.7	105	70 (77)	130 (121)

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P3451

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

		Sample				Rec	RPD		Limits		
Parameter	Spike	Result	Result	Units	Rec	Qual	RPD	Qual	Low	High	RPD
Lab Sample ID :	P3466-02MS	Client Sample ID :	924-K1-WP0-0.25-080224MS				Datafile :	VN083291.D			
Dichlorodifluoromethane	50	0	49.6	ug/L	99				40 (73)	160 (120)	
Chloromethane	50	0	50.6	ug/L	101				40 (58)	160 (133)	
Vinyl chloride	50	0	53.7	ug/L	107				70 (69)	130 (125)	
Bromomethane	50	0	40.3	ug/L	81				40 (28)	160 (165)	
Chloroethane	50	0	56.4	ug/L	113				40 (70)	160 (141)	
1,1,2-Trichlorotrifluoroethane	50	0	53.7	ug/L	107				70 (75)	130 (117)	
1,1-Dichloroethene	50	0	52.0	ug/L	104				70 (53)	130 (162)	
Acetone	250	4.70	250	ug/L	98				40 (44)	160 (150)	
Carbon disulfide	50	0	44.0	ug/L	88				40 (44)	160 (135)	
Methyl tert-butyl Ether	50	0	55.1	ug/L	110				70 (82)	130 (133)	
Methylene Chloride	50	0	51.5	ug/L	103				70 (79)	130 (115)	
trans-1,2-Dichloroethene	50	0	51.7	ug/L	103				70 (76)	130 (118)	
1,1-Dichloroethane	50	0	55.9	ug/L	112				70 (78)	130 (122)	
Cyclohexane	50	0	46.9	ug/L	94				70 (71)	130 (119)	
2-Butanone	250	0	260	ug/L	104				40 (67)	160 (137)	
Carbon Tetrachloride	50	0	53.3	ug/L	107				70 (66)	130 (133)	
cis-1,2-Dichloroethene	50	0	53.0	ug/L	106				70 (82)	130 (124)	
Chloroform	50	0	57.4	ug/L	115				70 (83)	130 (119)	
1,1,1-Trichloroethane	50	0	55.4	ug/L	111				70 (83)	130 (117)	
Methylcyclohexane	50	0	46.5	ug/L	93				70 (64)	130 (120)	
Benzene	50	0	52.7	ug/L	105				70 (81)	130 (128)	
1,2-Dichloroethane	50	0	54.8	ug/L	110				70 (76)	130 (120)	
Trichloroethene	50	0	51.1	ug/L	102				70 (28)	130 (175)	
Bromodichloromethane	50	0	53.2	ug/L	106				70 (54)	130 (157)	
Toluene	50	0.56	53.8	ug/L	106				70 (85)	130 (115)	
1,1,2-Trichloroethane	50	0	56.4	ug/L	113				70 (27)	130 (175)	
Dibromochloromethane	50	0	55.2	ug/L	110				70 (59)	130 (164)	
Tetrachloroethene	50	0	47.8	ug/L	96				70 (48)	130 (153)	
Chlorobenzene	50	0	51.2	ug/L	102				70 (85)	130 (114)	
Ethyl Benzene	50	0	51.4	ug/L	103				70 (81)	130 (128)	
m/p-Xylenes	100	0	100	ug/L	100				70 (69)	130 (129)	
o-Xylene	50	0	51.6	ug/L	103				70 (75)	130 (127)	
Isopropylbenzene	50	0	49.7	ug/L	99				70 (76)	130 (121)	
1,4-Dichlorobenzene	50	0	49.4	ug/L	99				70 (81)	130 (111)	
1,2-Dichlorobenzene	50	0	49.5	ug/L	99				70 (82)	130 (113)	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P3451

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec			RPD		Limits		
					Rec	Qual	RPD	Qual	Low	High	RPD	
Lab Sample ID :	P3466-03MSD	Client Sample ID :	924-K1-WP0-0.25-080224MSD					Datafile :	VN083292.D			
Dichlorodifluoromethane	50	0	47.3	ug/L	95		5		40 (73)	160 (120)	20 (20)	
Chloromethane	50	0	49.0	ug/L	98		3		40 (58)	160 (133)	20 (20)	
Vinyl chloride	50	0	50.8	ug/L	102		6		70 (69)	130 (125)	20 (20)	
Bromomethane	50	0	43.5	ug/L	87		8		40 (28)	160 (165)	20 (20)	
Chloroethane	50	0	52.7	ug/L	105		7		40 (70)	160 (141)	20 (20)	
1,1,2-Trichlorotrifluoroethane	50	0	49.8	ug/L	100		8		70 (75)	130 (117)	20 (20)	
1,1-Dichloroethene	50	0	47.6	ug/L	95		9		70 (53)	130 (162)	20 (20)	
Acetone	250	4.70	240	ug/L	94		4		40 (44)	160 (150)	20 (20)	
Carbon disulfide	50	0	41.8	ug/L	84		5		40 (44)	160 (135)	20 (20)	
Methyl tert-butyl Ether	50	0	51.2	ug/L	102		7		70 (82)	130 (133)	20 (20)	
Methylene Chloride	50	0	47.6	ug/L	95		8		70 (79)	130 (115)	20 (20)	
trans-1,2-Dichloroethene	50	0	48.2	ug/L	96		7		70 (76)	130 (118)	20 (20)	
1,1-Dichloroethane	50	0	52.5	ug/L	105		6		70 (78)	130 (122)	20 (20)	
Cyclohexane	50	0	43.7	ug/L	87		7		70 (71)	130 (119)	20 (20)	
2-Butanone	250	0	240	ug/L	96		8		40 (67)	160 (137)	20 (20)	
Carbon Tetrachloride	50	0	48.4	ug/L	97		10		70 (66)	130 (133)	20 (20)	
cis-1,2-Dichloroethene	50	0	50.3	ug/L	101		5		70 (82)	130 (124)	20 (20)	
Chloroform	50	0	53.9	ug/L	108		6		70 (83)	130 (119)	20 (20)	
1,1,1-Trichloroethane	50	0	52.4	ug/L	105		6		70 (83)	130 (117)	20 (20)	
Methylcyclohexane	50	0	42.6	ug/L	85		9		70 (64)	130 (120)	20 (20)	
Benzene	50	0	49.0	ug/L	98		7		70 (81)	130 (128)	20 (20)	
1,2-Dichloroethane	50	0	50.9	ug/L	102		7		70 (76)	130 (120)	20 (20)	
Trichloroethene	50	0	47.5	ug/L	95		7		70 (28)	130 (175)	20 (20)	
Bromodichloromethane	50	0	49.3	ug/L	99		8		70 (54)	130 (157)	20 (20)	
Toluene	50	0.56	49.6	ug/L	98		8		70 (85)	130 (115)	20 (20)	
1,1,2-Trichloroethane	50	0	51.9	ug/L	104		8		70 (27)	130 (175)	20 (20)	
Dibromochloromethane	50	0	51.4	ug/L	103		7		70 (59)	130 (164)	20 (20)	
Tetrachloroethene	50	0	43.7	ug/L	87		9		70 (48)	130 (153)	20 (20)	
Chlorobenzene	50	0	47.5	ug/L	95		7		70 (85)	130 (114)	20 (20)	
Ethyl Benzene	50	0	47.2	ug/L	94		9		70 (81)	130 (128)	20 (20)	
m/p-Xylenes	100	0	93.7	ug/L	94		7		70 (69)	130 (129)	20 (20)	
o-Xylene	50	0	47.7	ug/L	95		8		70 (75)	130 (127)	20 (20)	
Isopropylbenzene	50	0	46.1	ug/L	92		8		70 (76)	130 (121)	20 (20)	
1,4-Dichlorobenzene	50	0	46.0	ug/L	92		7		70 (81)	130 (111)	20 (20)	
1,2-Dichlorobenzene	50	0	46.9	ug/L	94		5		70 (82)	130 (113)	20 (20)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P3451

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

Datafile : VN083276.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0813WBS03	Dichlorodifluoromethane	20	18.3	ug/L	92			40 (69)	160 (116)	
	Chloromethane	20	18.7	ug/L	94			40 (65)	160 (116)	
	Vinyl chloride	20	19.6	ug/L	98			70 (65)	130 (117)	
	Bromomethane	20	19.0	ug/L	95			40 (58)	160 (125)	
	Chloroethane	20	20.5	ug/L	103			40 (56)	160 (128)	
	1,1,2-Trichlorotrifluoroethane	20	19.9	ug/L	100			70 (80)	130 (112)	
	1,1-Dichloroethene	20	18.8	ug/L	94			70 (74)	130 (110)	
	Acetone	100	90.7	ug/L	91			40 (60)	160 (125)	
	Carbon disulfide	20	16.3	ug/L	81			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	19.4	ug/L	97			70 (78)	130 (114)	
	Methylene Chloride	20	19.1	ug/L	96			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	18.7	ug/L	94			70 (75)	130 (108)	
	1,1-Dichloroethane	20	20.2	ug/L	101			70 (78)	130 (112)	
	Cyclohexane	20	18.1	ug/L	91			70 (75)	130 (110)	
	2-Butanone	100	93.9	ug/L	94			40 (65)	160 (122)	
	Carbon Tetrachloride	20	19.8	ug/L	99			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	19.3	ug/L	97			70 (77)	130 (110)	
	Chloroform	20	20.6	ug/L	103			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	20.0	ug/L	100			70 (80)	130 (108)	
	Methylcyclohexane	20	17.5	ug/L	88			70 (72)	130 (115)	
	Benzene	20	19.6	ug/L	98			70 (82)	130 (109)	
	1,2-Dichloroethane	20	20.6	ug/L	103			70 (80)	130 (115)	
	Trichloroethene	20	19.5	ug/L	98			70 (77)	130 (113)	
	Bromodichloromethane	20	19.6	ug/L	98			70 (83)	130 (110)	
	Toluene	20	19.2	ug/L	96			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	20.5	ug/L	103			70 (83)	130 (112)	
	Dibromochloromethane	20	20.1	ug/L	101			70 (82)	130 (110)	
	Tetrachloroethene	20	20.1	ug/L	101			70 (67)	130 (123)	
	Chlorobenzene	20	19.6	ug/L	98			70 (82)	130 (109)	
	Ethyl Benzene	20	19.6	ug/L	98			70 (83)	130 (109)	
	m/p-Xylenes	40	38.8	ug/L	97			70 (82)	130 (110)	
	o-Xylene	20	19.7	ug/L	99			70 (83)	130 (109)	
	Isopropylbenzene	20	19.2	ug/L	96			70 (83)	130 (112)	
	1,4-Dichlorobenzene	20	18.9	ug/L	95			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	19.4	ug/L	97			70 (82)	130 (109)	

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0813WBL02

Lab Name: CHEMTECH

Contract: JACO05

Lab Code: CHEM Case No.: P3451

SAS No.: P3451 SDG NO.: P3451

Lab File ID: VN083274.D

Lab Sample ID: VN0813WBL02

Date Analyzed: 08/14/2024

Time Analyzed: 03:22

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
VN0813WBS03	VN0813WBS03	VN083276.D	08/14/2024
921-J-WS-080124	P3451-01	VN083283.D	08/14/2024
TB-03-080124	P3451-02	VN083284.D	08/14/2024
924-K1-WP0-0.25-080224MS	P3466-02MS	VN083291.D	08/14/2024
924-K1-WP0-0.25-080224MSD	P3466-03MSD	VN083292.D	08/14/2024

COMMENTS: _____



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: JACO05
Lab Code: CHEM Case No.: P3451 SAS No.: P3451 SDG NO.: P3451
Lab File ID: VN083134.D BFB Injection Date: 08/07/2024
Instrument ID: MSVOA_N BFB Injection Time: 10:09
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	52.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.5
173	Less than 2.0% of mass 174	0.2 (0.3) 1
174	50.0 - 100.0% of mass 95	66.5
175	5.0 - 9.0% of mass 174	4.9 (7.4) 1
176	95.0 - 101.0% of mass 174	64.4 (96.9) 1
177	5.0 - 9.0% of mass 176	4.1 (6.3) 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	VN083135.D	08/07/2024	10:33
VSTDICCC050	VSTDICCC050	VN083136.D	08/07/2024	10:58
VSTDICC020	VSTDICC020	VN083137.D	08/07/2024	11:22
VSTDICC010	VSTDICC010	VN083138.D	08/07/2024	11:46
VSTDICC005	VSTDICC005	VN083139.D	08/07/2024	12:10
VSTDICC001	VSTDICC001	VN083140.D	08/07/2024	12:34



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: JACO05
Lab Code: CHEM Case No.: P3451 SAS No.: P3451 SDG NO.: P3451
Lab File ID: VN083272.D BFB Injection Date: 08/14/2024
Instrument ID: MSVOA_N BFB Injection Time: 01:50
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	20.1
75	30.0 - 60.0% of mass 95	55.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.2 (0.3) 1
174	50.0 - 100.0% of mass 95	69.4
175	5.0 - 9.0% of mass 174	5.4 (7.8) 1
176	95.0 - 101.0% of mass 174	67.3 (97) 1
177	5.0 - 9.0% of mass 176	4.8 (7.2) 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	VN083273.D	08/14/2024	02:14
VN0813WBL02	VN0813WBL02	VN083274.D	08/14/2024	03:22
VN0813WBS03	VN0813WBS03	VN083276.D	08/14/2024	04:10
921-J-WS-080124	P3451-01	VN083283.D	08/14/2024	07:16
TB-03-080124	P3451-02	VN083284.D	08/14/2024	07:40
924-K1-WP0-0.25-080224MS	P3466-02MS	VN083291.D	08/14/2024	10:28
924-K1-WP0-0.25-080224MSD	P3466-03MSD	VN083292.D	08/14/2024	10:52

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: JACO05
Lab Code: CHEM Case No.: P3451 SAS No.: P3451 SDG NO.: P3451
Lab File ID: VN083273.D Date Analyzed: 08/14/2024
Instrument ID: MSVOA_N Time Analyzed: 02:14
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	173401	8.22	306155	9.10	269814	11.87
UPPER LIMIT	346802	8.724	612310	9.6	539628	12.365
LOWER LIMIT	86700.5	7.724	153078	8.6	134907	11.365
EPA SAMPLE NO.						
921-J-WS-080124	130924	8.22	257809	9.10	269897	11.87
TB-03-080124	138901	8.22	271745	9.10	276868	11.87
924-K1-WP0-0.25-080224MS	147545	8.22	267105	9.10	236618	11.87
924-K1-WP0-0.25-080224MSD	154428	8.23	282107	9.10	251921	11.87
VN0813WBL02	150257	8.22	292620	9.11	300089	11.87
VN0813WBS03	163931	8.22	287598	9.10	244933	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: JACO05
 Lab Code: CHEM Case No.: P3451 SAS No.: P3451 SDG NO.: P3451
 Lab File ID: VN083273.D Date Analyzed: 08/14/2024
 Instrument ID: MSVOA_N Time Analyzed: 02:14
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	130108	13.788				
UPPER LIMIT	260216	14.288				
LOWER LIMIT	65054	13.288				
EPA SAMPLE NO.						
921-J-WS-080124	123166	13.79				
TB-03-080124	120328	13.79				
924-K1-WP0-0.25-080224MS	114165	13.79				
924-K1-WP0-0.25-080224MSD	119630	13.79				
VN0813WBL02	135334	13.79				
VN0813WBS03	114554	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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/01/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/01/24
Client Sample ID:	921-J-WS-080124	SDG No.:	P3451
Lab Sample ID:	P3451-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group6
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083283.D	1		08/14/24 07:16	VN081324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	10.7		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-88-3	Toluene	2.00		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/01/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/01/24
Client Sample ID:	921-J-WS-080124	SDG No.:	P3451
Lab Sample ID:	P3451-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group6
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083283.D	1		08/14/24 07:16	VN081324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
1330-20-7	Total Xylenes	0.45	U	0.45	3.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.0		70 (74) - 130 (125)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	52.6		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	53.3		70 (86) - 130 (113)	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	57.9		70 (77) - 130 (121)	116%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	131000	8.224			
540-36-3	1,4-Difluorobenzene	258000	9.1			
3114-55-4	Chlorobenzene-d5	270000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	123000	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\VN081324\
 Data File : VN083283.D
 Acq On : 14 Aug 2024 07:16
 Operator : JC\MD
 Sample : P3451-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 921-J-WS-080124

Quant Time: Aug 14 07:59:42 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 06:30:41 2024
 Response via : Initial Calibration

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

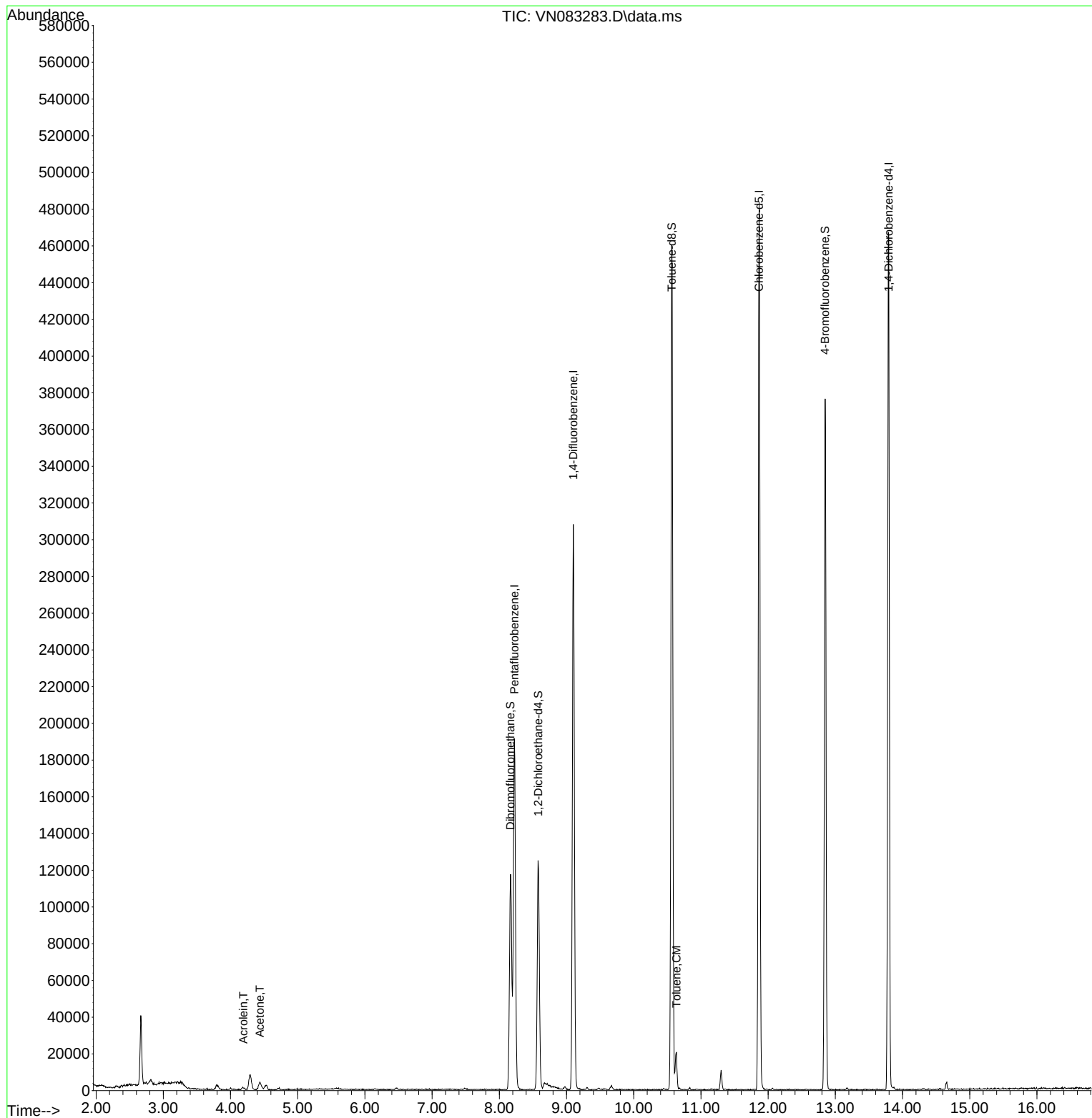
Internal Standards						
1) Pentafluorobenzene	8.224	168	130924	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	257809	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	269897	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	123166	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	106234	57.006	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	114.020%
35) Dibromofluoromethane	8.165	113	84689	52.628	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	105.260%
50) Toluene-d8	10.565	98	319644	53.250	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	106.500%
62) 4-Bromofluorobenzene	12.847	95	135397	57.857	ug/l	0.00
Spiked Amount	50.000	Range	64 - 133	Recovery	=	115.720%
Target Compounds						Qvalue
13) Acrolein	4.189	56	1551	6.145	ug/l	84
16) Acetone	4.436	43	7802	10.699	ug/l	93
52) Toluene	10.635	92	9096	1.985	ug/l	94

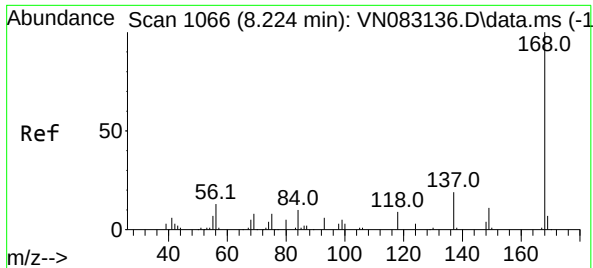
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083283.D
Acq On : 14 Aug 2024 07:16
Operator : JC\MD
Sample : P3451-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
921-J-WS-080124

Quant Time: Aug 14 07:59:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

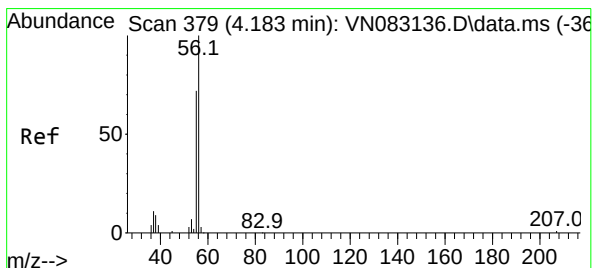
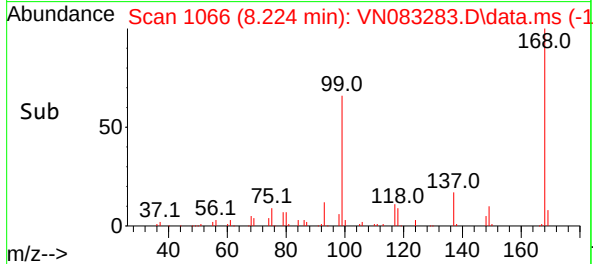
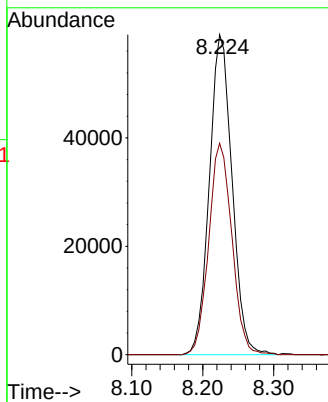
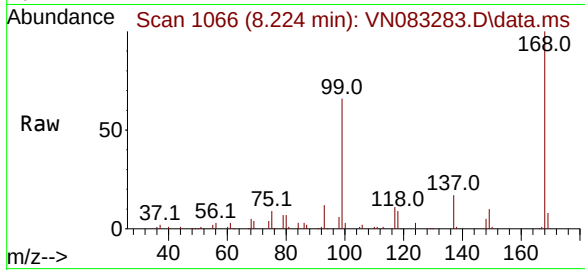




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083283.D
Acq: 14 Aug 2024 07:16

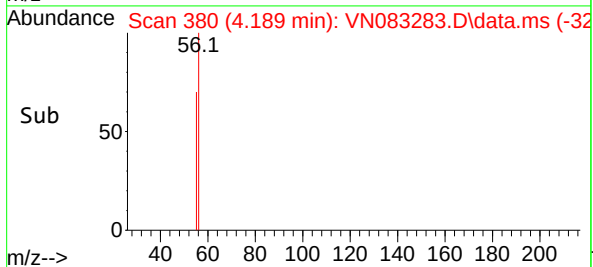
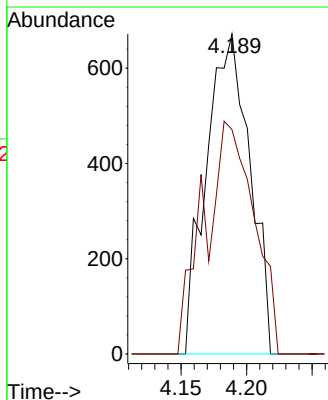
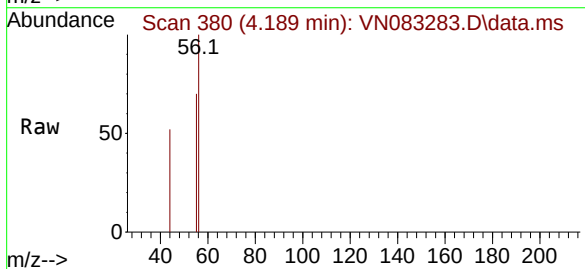
Instrument :
MSVOA_N
ClientSampleId :
921-J-WS-080124

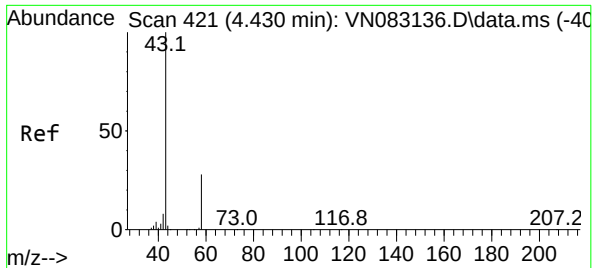
Tgt Ion:168 Resp: 130924
Ion Ratio Lower Upper
168 100
99 66.1 48.2 72.4



#13
Acrolein
Concen: 6.145 ug/l
RT: 4.189 min Scan# 380
Delta R.T. 0.006 min
Lab File: VN083283.D
Acq: 14 Aug 2024 07:16

Tgt Ion: 56 Resp: 1551
Ion Ratio Lower Upper
56 100
55 83.4 56.4 84.6

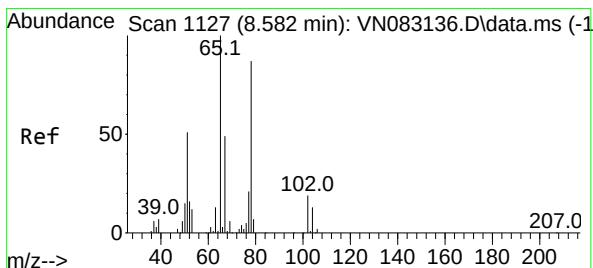
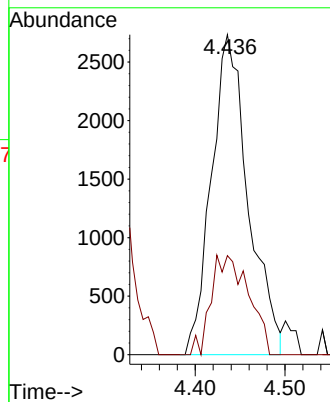
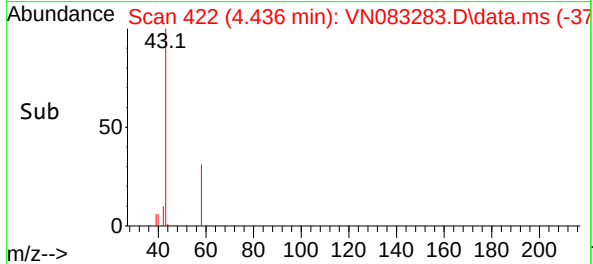
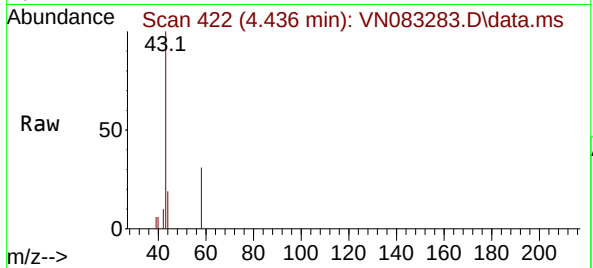




#16
Acetone
Concen: 10.699 ug/l
RT: 4.436 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN083283.D
Acq: 14 Aug 2024 07:16

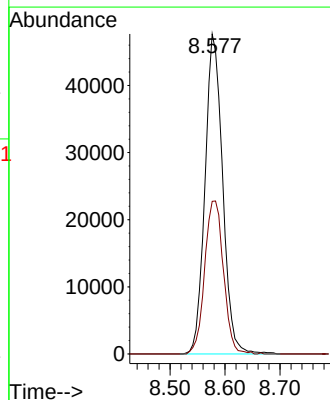
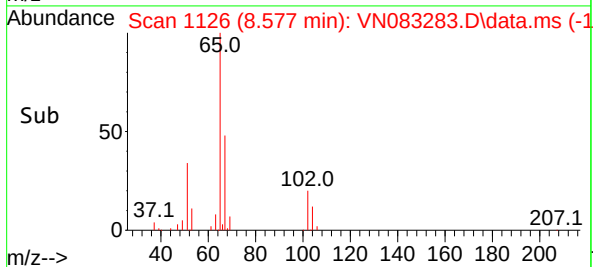
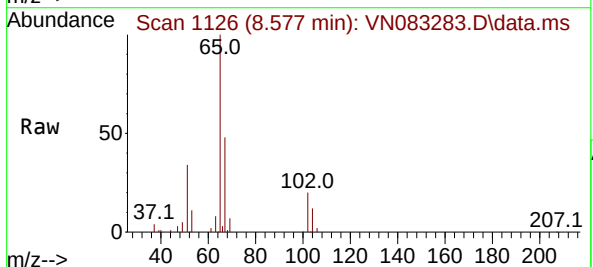
Instrument :
MSVOA_N
ClientSampleId :
921-J-WS-080124

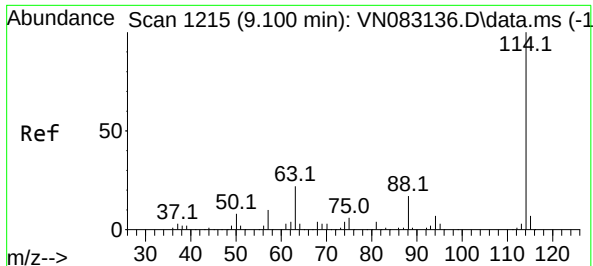
Tgt Ion: 43 Resp: 7802
Ion Ratio Lower Upper
43 100
58 30.9 21.8 32.6



#33
1,2-Dichloroethane-d4
Concen: 57.006 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.006 min
Lab File: VN083283.D
Acq: 14 Aug 2024 07:16

Tgt Ion: 65 Resp: 106234
Ion Ratio Lower Upper
65 100
67 50.9 0.0 104.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN083283.D

Acq: 14 Aug 2024 07:16

Instrument :

MSVOA_N

ClientSampleId :

921-J-WS-080124

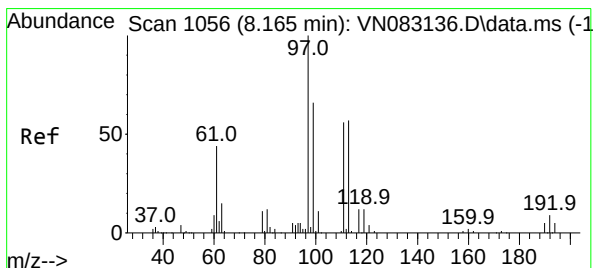
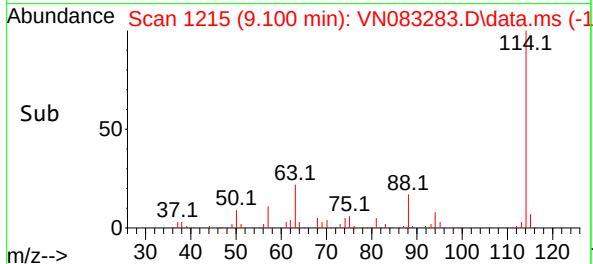
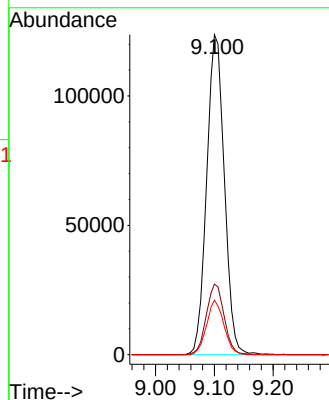
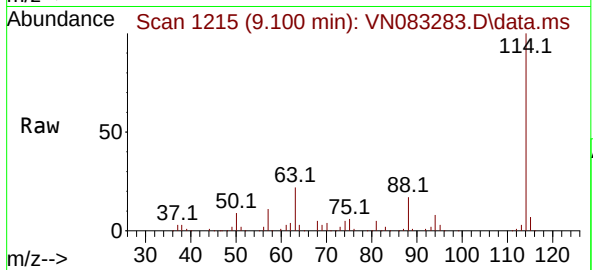
Tgt Ion:114 Resp: 257809

Ion Ratio Lower Upper

114 100

63 22.1 0.0 44.6

88 17.0 0.0 31.4



#35

Dibromofluoromethane

Concen: 52.628 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN083283.D

Acq: 14 Aug 2024 07:16

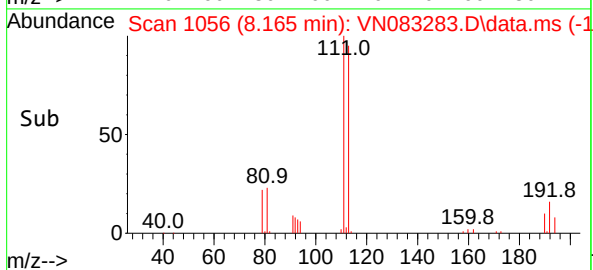
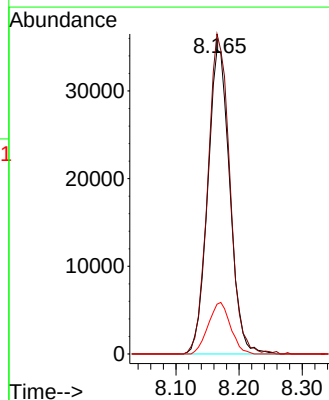
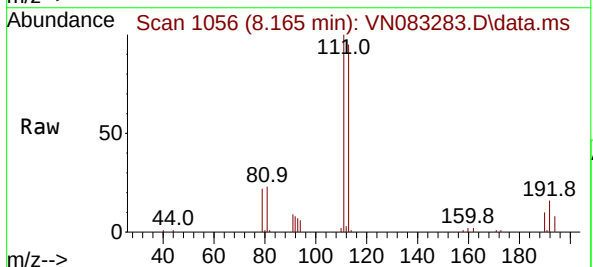
Tgt Ion:113 Resp: 84689

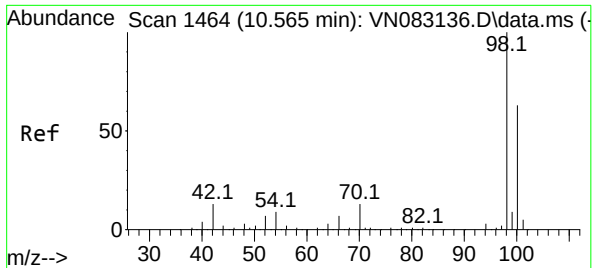
Ion Ratio Lower Upper

113 100

111 104.4 82.4 123.6

192 16.9 14.9 22.3

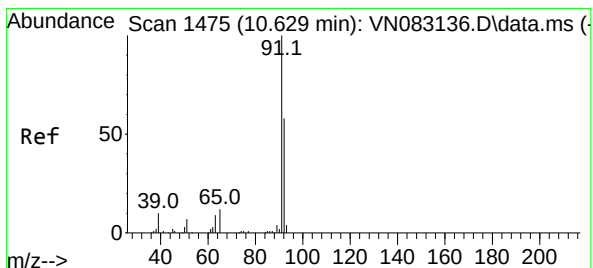
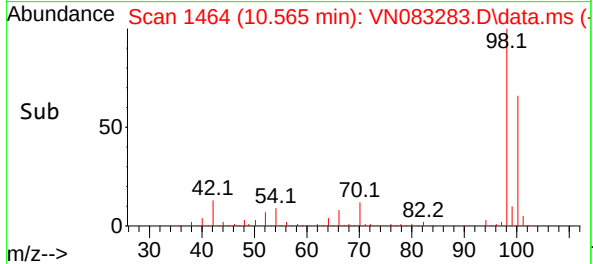
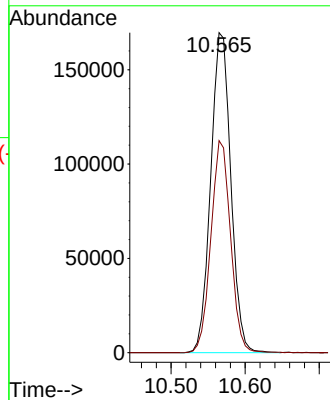
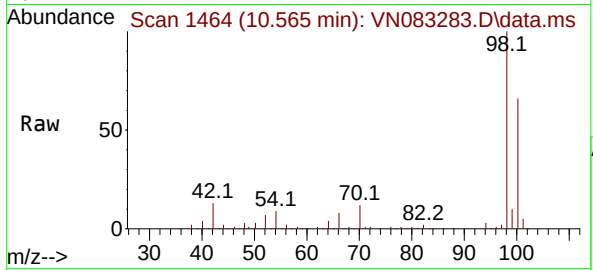




#50
Toluene-d8
Concen: 53.250 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN083283.D
Acq: 14 Aug 2024 07:16

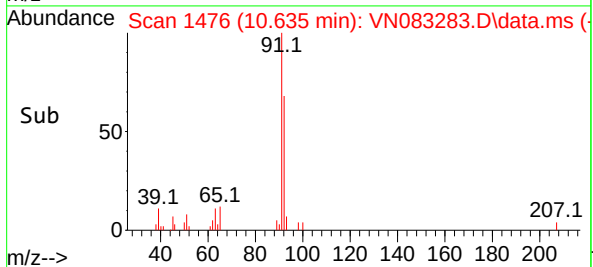
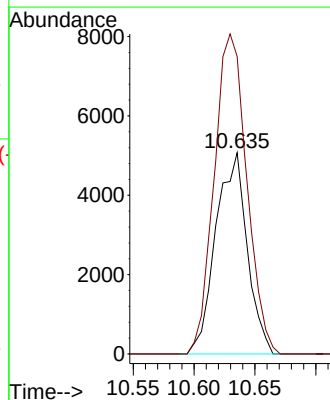
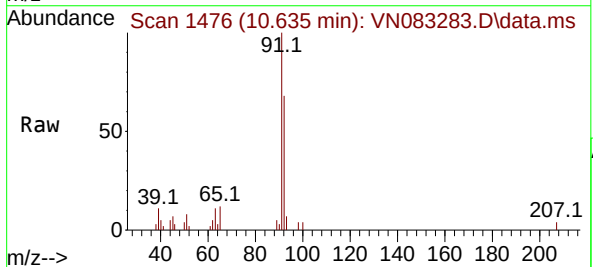
Instrument :
MSVOA_N
ClientSampleId :
921-J-WS-080124

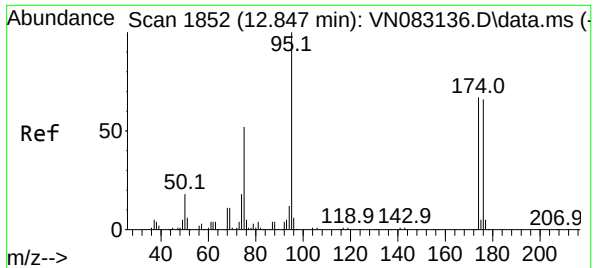
Tgt Ion: 98 Resp: 319644
Ion Ratio Lower Upper
98 100
100 64.8 51.5 77.3



#52
Toluene
Concen: 1.985 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.006 min
Lab File: VN083283.D
Acq: 14 Aug 2024 07:16

Tgt Ion: 92 Resp: 9096
Ion Ratio Lower Upper
92 100
91 165.2 139.4 209.0

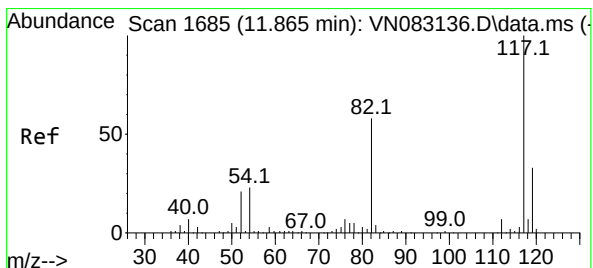
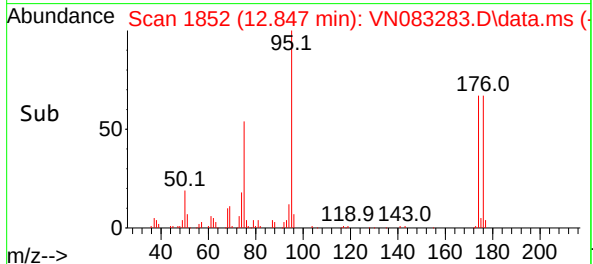
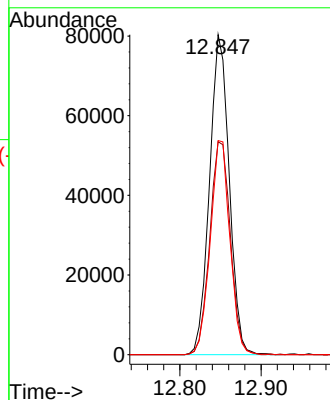
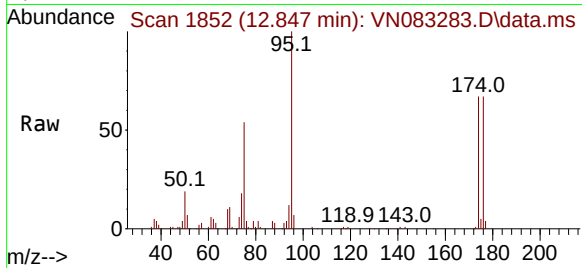




#62
4-Bromofluorobenzene
Concen: 57.857 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083283.D
Acq: 14 Aug 2024 07:16

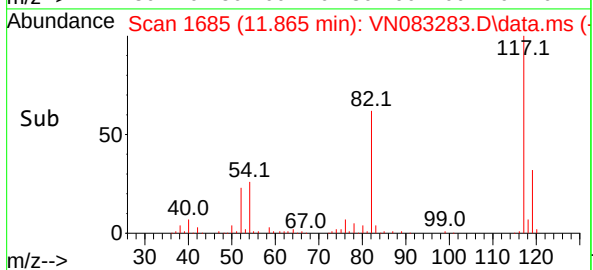
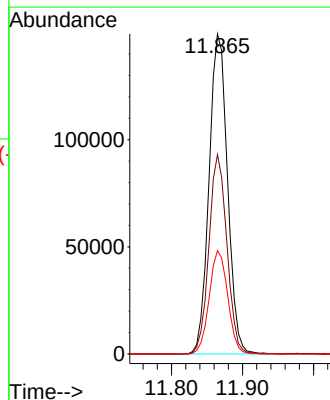
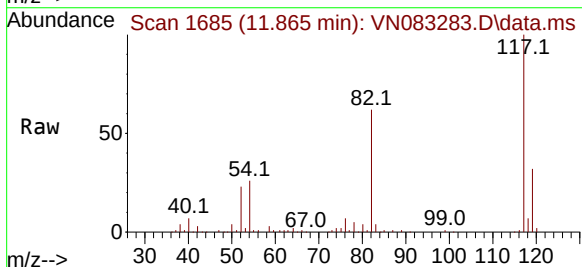
Instrument :
MSVOA_N
ClientSampleId :
921-J-WS-080124

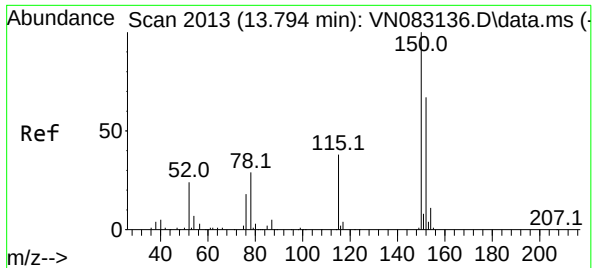
Tgt Ion: 95 Resp: 135397
Ion Ratio Lower Upper
95 100
174 69.9 0.0 159.2
176 66.6 0.0 147.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN083283.D
Acq: 14 Aug 2024 07:16

Tgt Ion: 117 Resp: 269897
Ion Ratio Lower Upper
117 100
82 62.3 47.5 71.3
119 32.3 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN083283.D

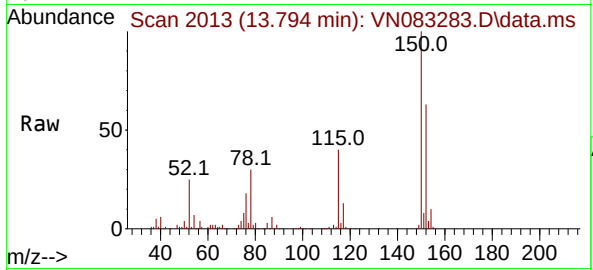
Acq: 14 Aug 2024 07:16

Instrument :

MSVOA_N

ClientSampleId :

921-J-WS-080124



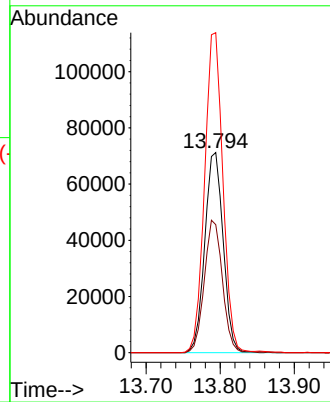
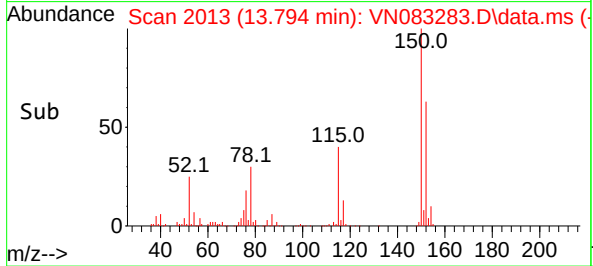
Tgt Ion:152 Resp: 123166

Ion Ratio Lower Upper

152 100

115 64.9 30.6 91.6

150 157.7 0.0 348.6



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/01/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/01/24
Client Sample ID:	TB-03-080124	SDG No.:	P3451
Lab Sample ID:	P3451-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group6
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083284.D	1		08/14/24 07:40	VN081324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/01/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/01/24
Client Sample ID:	TB-03-080124	SDG No.:	P3451
Lab Sample ID:	P3451-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group6
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083284.D	1		08/14/24 07:40	VN081324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
1330-20-7	Total Xylenes	0.45	U	0.45	3.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.8		70 (74) - 130 (125)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	52.3		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	53.3		70 (86) - 130 (113)	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.8		70 (77) - 130 (121)	112%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	139000	8.224			
540-36-3	1,4-Difluorobenzene	272000	9.1			
3114-55-4	Chlorobenzene-d5	277000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	120000	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 OC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083284.D
Acq On : 14 Aug 2024 07:40
Operator : JC\MD
Sample : P3451-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 45 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-03-080124

Quant Time: Aug 14 08:14:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	138901	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	271745	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	276868	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	120328	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	112204	56.752	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	113.500%
35) Dibromofluoromethane	8.165	113	88634	52.255	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	104.520%
50) Toluene-d8	10.565	98	337136	53.284	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	106.560%
62) 4-Bromofluorobenzene	12.847	95	137725	55.834	ug/l	0.00
Spiked Amount	50.000	Range	64 - 133	Recovery	=	111.660%

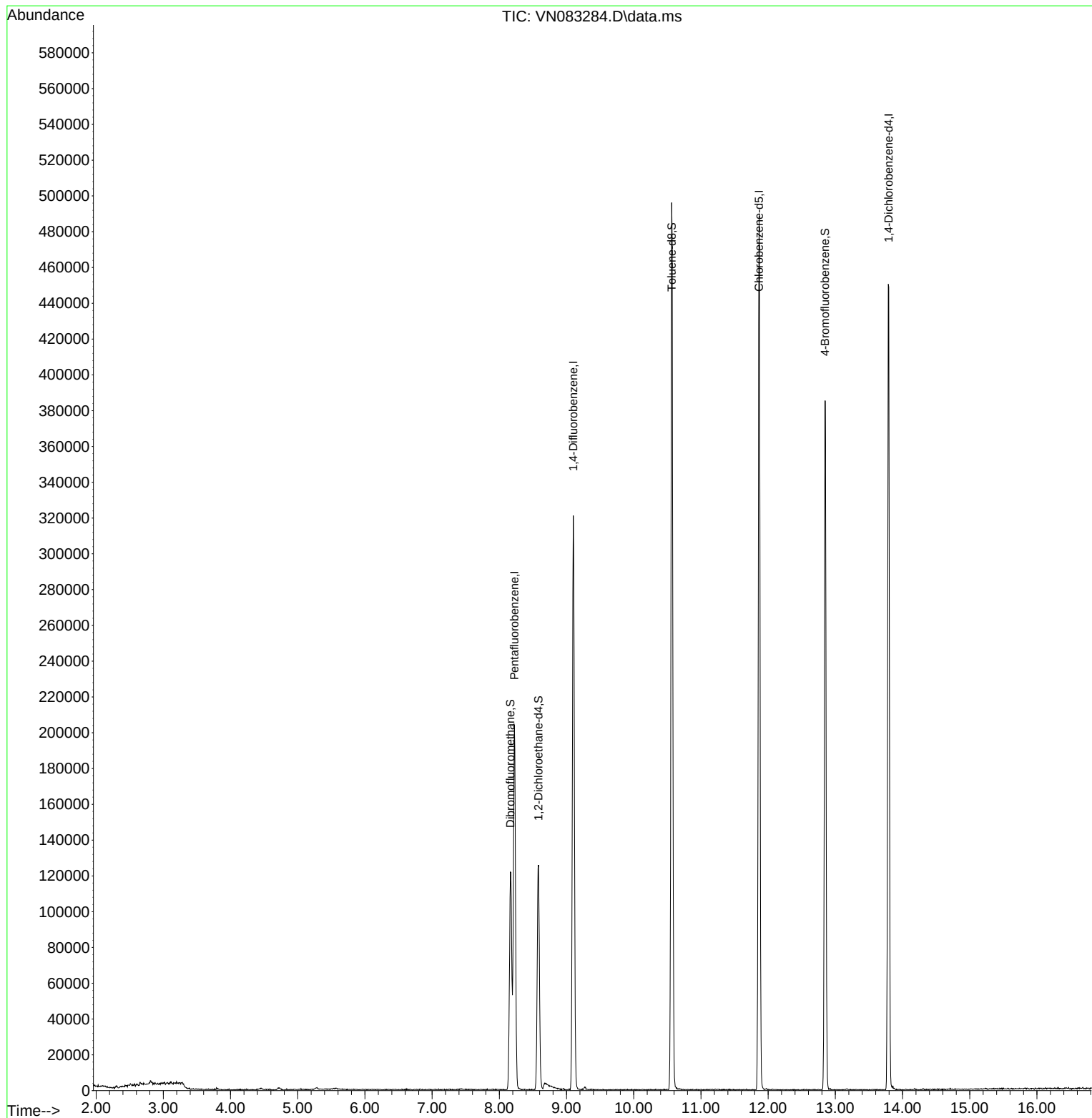
Target Compounds	Qvalue

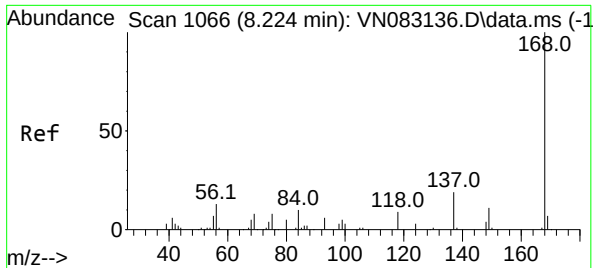
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083284.D
Acq On : 14 Aug 2024 07:40
Operator : JC\MD
Sample : P3451-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 45 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-03-080124

Quant Time: Aug 14 08:14:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

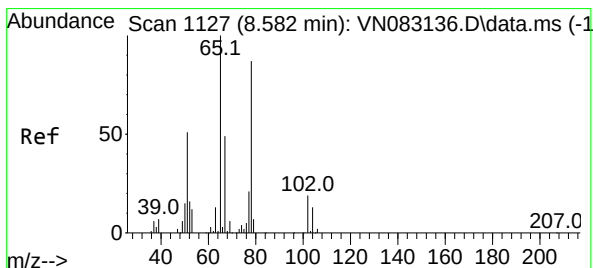
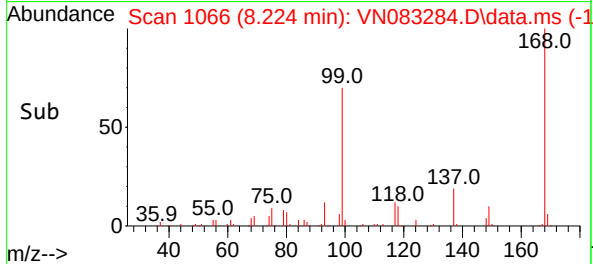
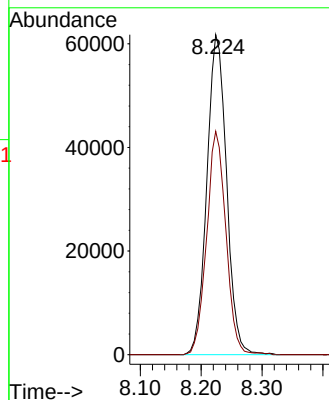
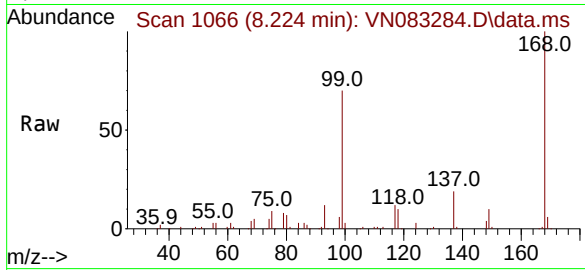




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083284.D
Acq: 14 Aug 2024 07:40

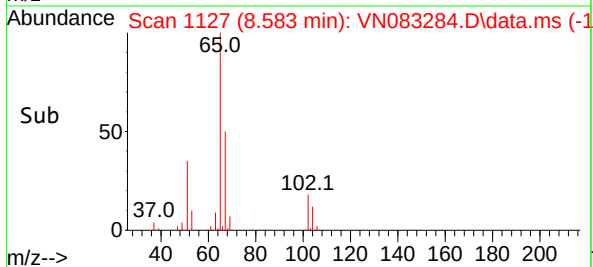
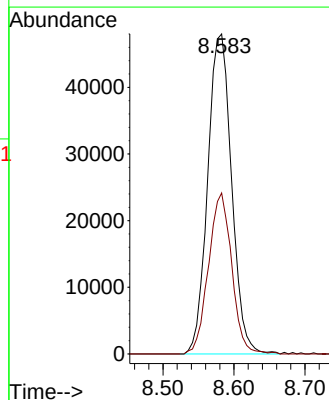
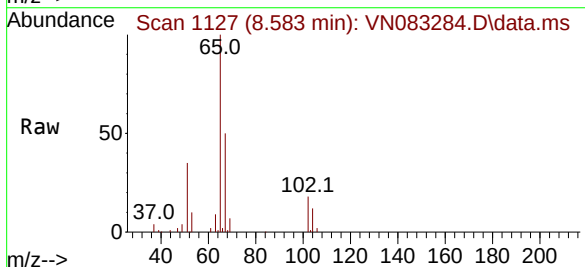
Instrument :
MSVOA_N
ClientSampleId :
TB-03-080124

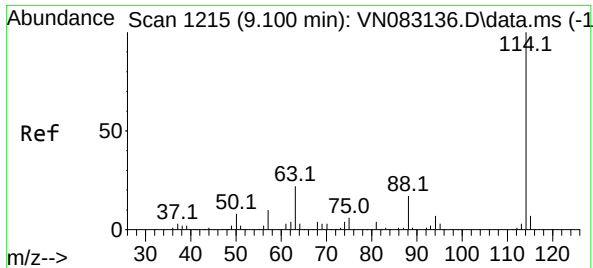
Tgt Ion:168 Resp: 138901
Ion Ratio Lower Upper
168 100
99 69.8 48.2 72.4



#33
1,2-Dichloroethane-d4
Concen: 56.752 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN083284.D
Acq: 14 Aug 2024 07:40

Tgt Ion: 65 Resp: 112204
Ion Ratio Lower Upper
65 100
67 48.9 0.0 104.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN083284.D

Acq: 14 Aug 2024 07:40

Instrument :

MSVOA_N

ClientSampleId :

TB-03-080124

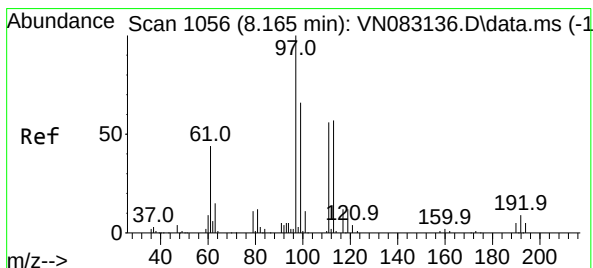
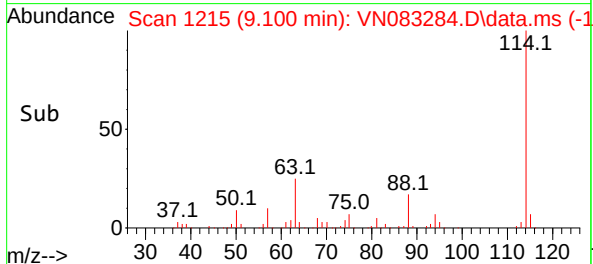
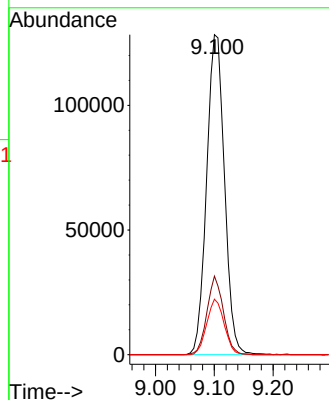
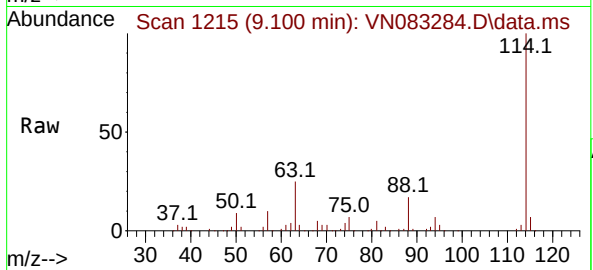
Tgt Ion:114 Resp: 271745

Ion Ratio Lower Upper

114 100

63 24.5 0.0 44.6

88 17.3 0.0 31.4



#35

Dibromofluoromethane

Concen: 52.255 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN083284.D

Acq: 14 Aug 2024 07:40

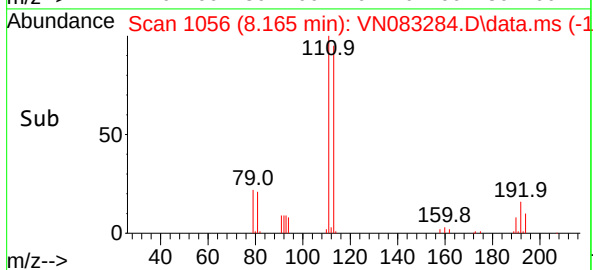
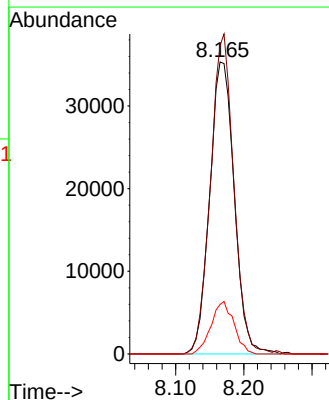
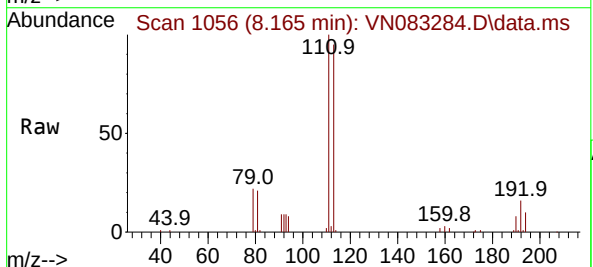
Tgt Ion:113 Resp: 88634

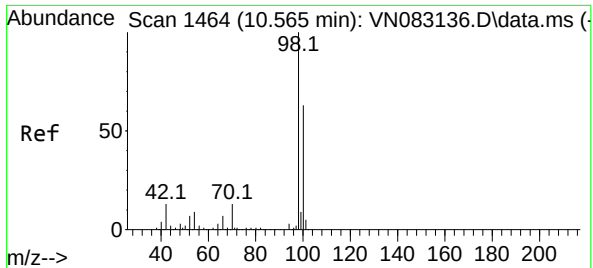
Ion Ratio Lower Upper

113 100

111 103.8 82.4 123.6

192 16.7 14.9 22.3

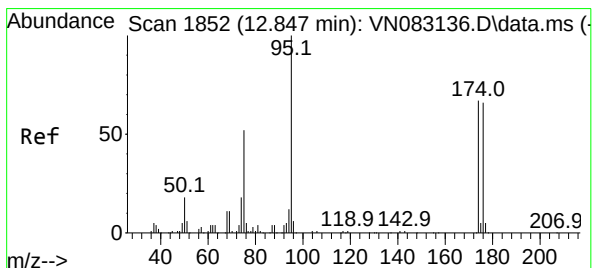
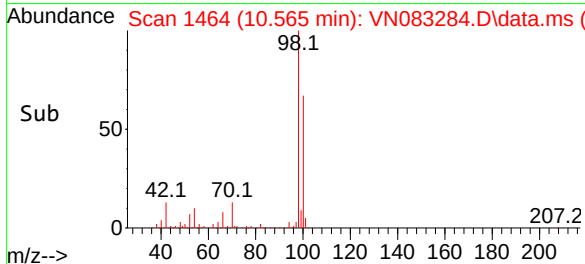
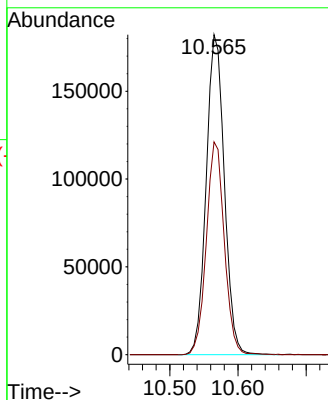
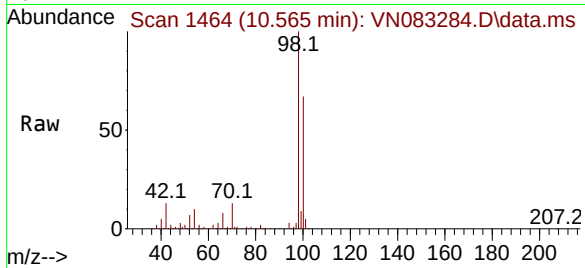




#50
Toluene-d8
Concen: 53.284 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN083284.D
Acq: 14 Aug 2024 07:40

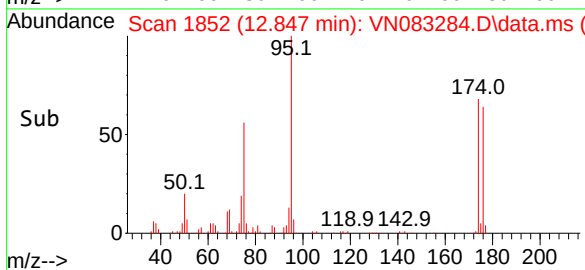
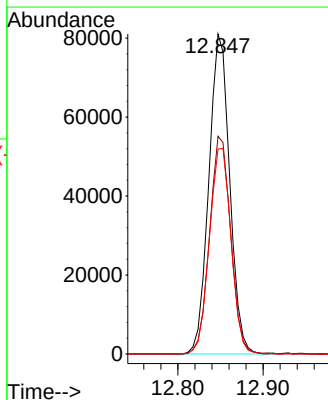
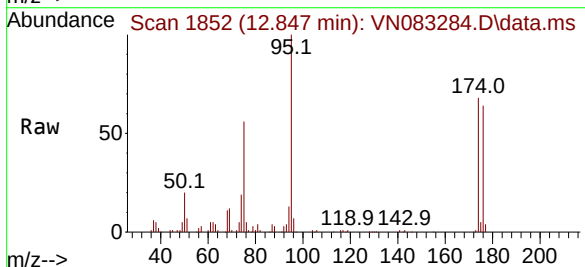
Instrument :
MSVOA_N
ClientSampleId :
TB-03-080124

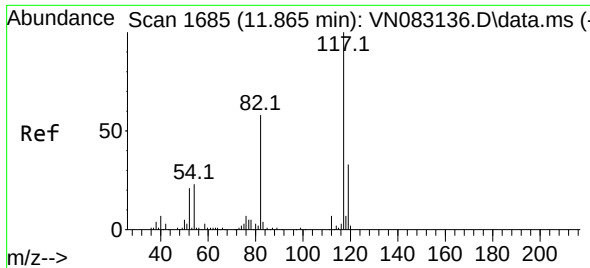
Tgt Ion: 98 Resp: 337136
Ion Ratio Lower Upper
98 100
100 65.8 51.5 77.3



#62
4-Bromofluorobenzene
Concen: 55.834 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083284.D
Acq: 14 Aug 2024 07:40

Tgt Ion: 95 Resp: 137725
Ion Ratio Lower Upper
95 100
174 68.8 0.0 159.2
176 66.7 0.0 147.6

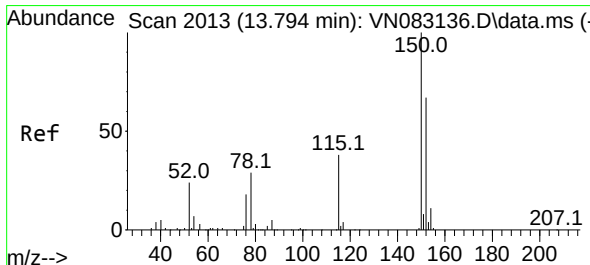
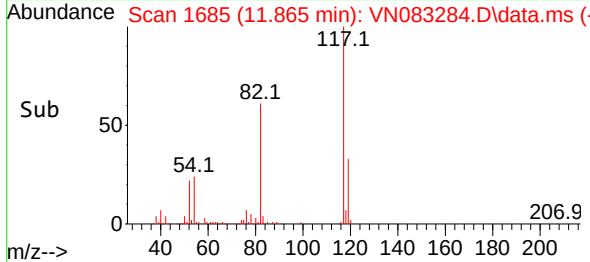
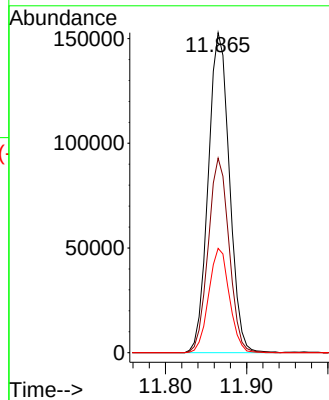
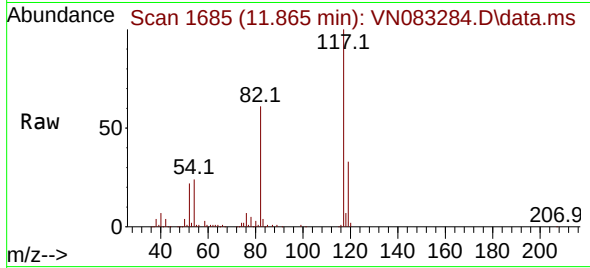




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083284.D
Acq: 14 Aug 2024 07:40

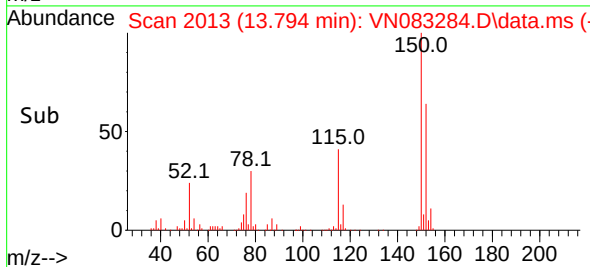
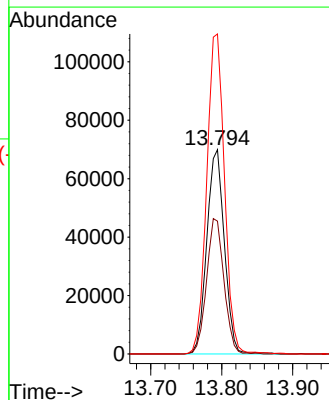
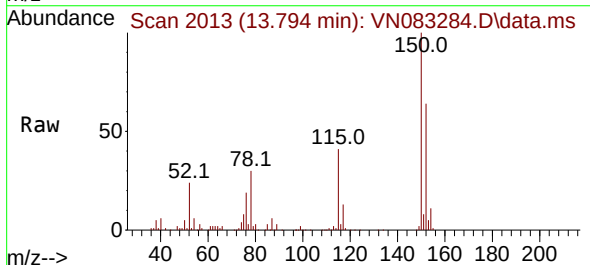
Instrument :
MSVOA_N
ClientSampleId :
TB-03-080124

Tgt Ion	Ratio	Lower	Upper
117	100		
82	60.8	47.5	71.3
119	32.6	25.6	38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083284.D
Acq: 14 Aug 2024 07:40

Tgt Ion	Ratio	Lower	Upper
152	100		
115	65.8	30.6	91.6
150	158.4	0.0	348.6





CALIBRATION SUMMARY



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: JAC005
 Lab Code: CHEM Case No.: P3451 SAS No.: P3451 SDG No.: P3451
 Instrument ID: MSVOA_N Calibration Date(s): 08/07/2024 08/07/2024
 Heated Purge: (Y/N) N Calibration Time(s): 10:33 12:34
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN083135.D		RRF050 = VN083136.D		RRF020 = VN083137.D			
		RRF010 = VN083138.D		RRF005 = VN083139.D		RRF001 = VN083140.D			
COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	RRF	% RSD	
Dichlorodifluoromethane	0.548	0.571	0.566	0.579	0.597	0.542	0.567	3.6	
Chloromethane	0.547	0.591	0.584	0.589	0.595	0.576	0.581	3.1	
Vinyl Chloride	0.562	0.598	0.588	0.612	0.586	0.607	0.592	3	
Bromomethane	0.313	0.357	0.370	0.385	0.413		0.368	10.1	
Chloroethane	0.340	0.356	0.356	0.355	0.381	0.436	0.371	9.3	
1,1,2-Trichlorotrifluoroethane	0.524	0.548	0.548	0.550	0.558	0.510	0.539	3.4	
1,1-Dichloroethene	0.524	0.544	0.538	0.564	0.581	0.575	0.554	4.1	
Acetone	0.302	0.286	0.260	0.284	0.274	0.265	0.278	5.5	
Carbon Disulfide	1.466	1.560	1.596	1.599	1.630	1.879	1.622	8.5	
Methyl tert-butyl Ether	1.927	2.028	2.028	2.015	2.053	1.953	2.001	2.5	
Methylene Chloride	0.569	0.599	0.619	0.614	0.640	0.805	0.641	13	
trans-1,2-Dichloroethene	0.533	0.574	0.577	0.586	0.568	0.599	0.573	3.9	
1,1-Dichloroethane	1.038	1.084	1.093	1.096	1.093	1.035	1.073	2.7	
Cyclohexane	0.933	0.982	1.010	1.110	1.238		1.055	11.5	
2-Butanone	0.418	0.427	0.424	0.430	0.414	0.453	0.428	3.2	
Carbon Tetrachloride	0.524	0.546	0.548	0.541	0.539	0.493	0.532	3.9	
cis-1,2-Dichloroethene	0.658	0.689	0.691	0.701	0.687	0.721	0.691	3	
Chloroform	1.087	1.137	1.110	1.132	1.122	1.102	1.115	1.7	
1,1,1-Trichloroethane	1.027	1.075	1.066	1.076	1.081	1.007	1.055	2.9	
Methylcyclohexane	0.565	0.597	0.587	0.583	0.575	0.572	0.580	2	
Benzene	1.386	1.447	1.431	1.429	1.403	1.343	1.406	2.7	
1,2-Dichloroethane	0.494	0.520	0.514	0.524	0.524	0.498	0.512	2.6	
Trichloroethene	0.331	0.344	0.343	0.341	0.340	0.310	0.335	3.9	
Bromodichloromethane	0.521	0.539	0.540	0.533	0.541	0.544	0.537	1.6	
Toluene	0.892	0.926	0.905	0.900	0.885	0.824	0.889	3.9	
1,1,2-Trichloroethane	0.322	0.334	0.331	0.327	0.314	0.283	0.318	6	
Dibromochloromethane	0.400	0.413	0.397	0.388	0.383	0.329	0.385	7.7	
Tetrachloroethene	0.319	0.343	0.338	0.343	0.324	0.320	0.331	3.5	
Chlorobenzene	1.070	1.142	1.101	1.153	1.094	1.069	1.105	3.2	
Ethyl Benzene	1.967	2.075	2.061	2.070	2.032	1.957	2.027	2.6	

* 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.



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: JAC005
 Lab Code: CHEM Case No.: P3451 SAS No.: P3451 SDG No.: P3451
 Instrument ID: MSVOA_N Calibration Date(s): 08/07/2024 08/07/2024
 Heated Purge: (Y/N) N Calibration Time(s): 10:33 12:34
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN083135.D		RRF050 = VN083136.D		RRF020 = VN083137.D			
		RRF010 = VN083138.D		RRF005 = VN083139.D		RRF001 = VN083140.D			
COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	RRF	% RSD	
m/p-Xylenes	0.747	0.787	0.771	0.785	0.759	0.706	0.759	4	
o-Xylene	0.735	0.773	0.759	0.773	0.750	0.703	0.749	3.6	
Isopropylbenzene	3.822	4.249	4.133	4.386	4.249	4.254	4.182	4.6	
1,4-Dichlorobenzene	1.655	1.783	1.728	1.751	1.795	1.862	1.762	4	
1,2-Dichlorobenzene	1.571	1.704	1.664	1.739	1.731	1.741	1.692	3.9	
1,2-Dichloroethane-d4	0.717	0.745	0.601	0.710	0.786		0.712	9.7	
Dibromofluoromethane	0.311	0.332	0.264	0.307	0.346		0.312	10	
Toluene-d8	1.201	1.261	0.985	1.133	1.240		1.164	9.6	
4-Bromofluorobenzene	0.473	0.492	0.390	0.432	0.483		0.454	9.4	

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N080724W.M
 Title : SW846 8260
 Last Update : Thu Aug 08 06:30:41 2024
 Response Via : Initial Calibration

Calibration Files

1 =VN083140.D 5 =VN083139.D 10 =VN083138.D 20 =VN083137.D 50 =VN083136.D 100 =VN083135.D

	Compound	1	5	10	20	50	100	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.542	0.597	0.579	0.566	0.571	0.548	0.567	3.55
3) P	Chloromethane	0.576	0.595	0.589	0.584	0.591	0.547	0.581	3.06
4) C	Vinyl Chloride	0.607	0.586	0.612	0.588	0.598	0.562	0.592	3.02#
5) T	Bromomethane		0.413	0.385	0.370	0.357	0.313	0.368	10.07
6) T	Chloroethane	0.436	0.381	0.355	0.356	0.356	0.340	0.371	9.33
7) T	Trichlorofluor...	0.901	1.003	1.013	1.005	0.995	0.955	0.979	4.42
8) T	Diethyl Ether	0.338	0.380	0.385	0.367	0.366	0.348	0.364	4.97
9) T	1,1,2-Trichlor...	0.510	0.558	0.550	0.548	0.548	0.524	0.539	3.41
10) T	Methyl Iodide		0.688	0.710	0.703	0.740	0.707	0.710	2.72
11) T	Tert butyl alc...		0.155	0.155	0.146	0.147	0.136	0.148	5.22
12) CM	1,1-Dichloroet...	0.575	0.581	0.564	0.538	0.544	0.524	0.554	4.08#
13) T	Acrolein		0.095	0.101	0.083	0.102	0.100	0.096	7.99
14) T	Allyl chloride	1.210	1.099	1.083	1.063	0.933	0.896	1.047	11.00
15) T	Acrylonitrile	0.306	0.311	0.306	0.304	0.306	0.293	0.304	1.95
16) T	Acetone	0.265	0.274	0.284	0.260	0.286	0.302	0.278	5.51
17) T	Carbon Disulfide	1.879	1.630	1.599	1.596	1.560	1.466	1.622	8.52
18) T	Methyl Acetate	0.985	0.844	0.842	0.773	0.776	0.758	0.830	10.20
19) T	Methyl tert-bu...	1.953	2.053	2.015	2.028	2.028	1.927	2.001	2.46
20) T	Methylene Chlo...	0.805	0.640	0.614	0.619	0.599	0.569	0.641	13.03
21) T	trans-1,2-Dich...	0.599	0.568	0.586	0.577	0.574	0.533	0.573	3.93
22) T	Diisopropyl ether	1.945	1.966	2.009	1.976	2.008	1.909	1.969	1.94
23) T	Vinyl Acetate	1.930	2.006	2.040	2.046	2.096	1.990	2.018	2.80
24) P	1,1-Dichloroet...	1.035	1.093	1.096	1.093	1.084	1.038	1.073	2.65
25) T	2-Butanone	0.453	0.414	0.430	0.424	0.427	0.418	0.428	3.22
26) T	2,2-Dichloropr...	0.925	0.984	1.032	1.019	1.023	0.997	0.997	3.95
27) T	cis-1,2-Dichlo...	0.721	0.687	0.701	0.691	0.689	0.658	0.691	2.99
28) T	Bromochloromet...	0.465	0.489	0.391	0.420	0.439	0.427	0.439	7.91
29) T	Tetrahydrofuran	0.271	0.280	0.286	0.272	0.279	0.270	0.276	2.24
30) C	Chloroform	1.102	1.122	1.132	1.110	1.137	1.087	1.115	1.71#
31) T	Cyclohexane		1.238	1.110	1.010	0.982	0.933	1.055	11.50
32) T	1,1,1-Trichlor...	1.007	1.081	1.076	1.066	1.075	1.027	1.055	2.89
33) S	1,2-Dichloroet...		0.786	0.710	0.601	0.745	0.717	0.712	9.68
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.346	0.307	0.264	0.332	0.311	0.312	9.99
36) T	1,1-Dichloropr...	0.488	0.463	0.477	0.472	0.475	0.457	0.472	2.33
37) T	Ethyl Acetate	0.665	0.515	0.512	0.502	0.499	0.479	0.529	12.83
38) T	Carbon Tetrach...	0.493	0.539	0.541	0.548	0.546	0.524	0.532	3.93
39) T	Methylcyclohexane	0.572	0.575	0.583	0.587	0.597	0.565	0.580	1.96
40) TM	Benzene	1.343	1.403	1.429	1.431	1.447	1.386	1.406	2.68
41) T	Methacrylonitrile	0.377	0.290	0.277	0.300	0.283	0.276	0.301	12.78
42) TM	1,2-Dichloroet...	0.498	0.524	0.524	0.514	0.520	0.494	0.512	2.63
43) T	Isopropyl Acetate	2.156	1.289	1.075	0.956	0.921	0.869	1.211	40.18
44) TM	Trichloroethene	0.310	0.340	0.341	0.343	0.344	0.331	0.335	3.94
45) C	1,2-Dichloropr...	0.316	0.326	0.341	0.344	0.346	0.331	0.334	3.50#
46) T	Dibromomethane	0.218	0.243	0.240	0.245	0.251	0.238	0.239	4.73
47) T	Bromodichlorom...	0.544	0.541	0.533	0.540	0.539	0.521	0.537	1.55
48) T	Methyl methacr...	0.506	0.423	0.432	0.421	0.425	0.415	0.437	7.88
49) T	1,4-Dioxane	0.008	0.008	0.008	0.008	0.008	0.008	0.008	2.64
50) S	Toluene-d8		1.240	1.133	0.985	1.261	1.201	1.164	9.56
51) T	4-Methyl-2-Pen...	0.457	0.499	0.516	0.516	0.517	0.495	0.500	4.62
52) CM	Toluene	0.824	0.885	0.900	0.905	0.926	0.892	0.889	3.91#
53) T	t-1,3-Dichloro...	0.469	0.546	0.552	0.573	0.597	0.569	0.551	7.99
54) T	cis-1,3-Dichlo...	0.546	0.588	0.595	0.597	0.606	0.586	0.586	3.54
55) T	1,1,2-Trichlor...	0.283	0.314	0.327	0.331	0.334	0.322	0.318	5.95
56) T	Ethyl methacry...	0.553	0.594	0.612	0.617	0.624	0.601	0.600	4.24

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N080724W.M

57)	T	1,3-Dichloropr...	0.552	0.545	0.575	0.581	0.592	0.561	0.568	3.17
58)	T	2-Chloroethyl ...	0.243	0.250	0.262	0.242	0.261	0.264	0.254	3.91
59)	T	2-Hexanone	0.367	0.385	0.389	0.395	0.397	0.388	0.387	2.70
60)	T	Dibromochlorom...	0.329	0.383	0.388	0.397	0.413	0.400	0.385	7.68
61)	T	1,2-Dibromoethane	0.317	0.332	0.342	0.336	0.347	0.334	0.335	3.13
62)	S	4-Bromofluorob...	0.483	0.432	0.390	0.492	0.473	0.454		9.36
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.320	0.324	0.343	0.338	0.343	0.319	0.331	3.46
65)	PM	Chlorobenzene	1.069	1.094	1.153	1.101	1.142	1.070	1.105	3.23
66)	T	1,1,1,2-Tetrac...	0.370	0.401	0.403	0.385	0.399	0.380	0.390	3.37
67)	C	Ethyl Benzene	1.957	2.032	2.070	2.061	2.075	1.967	2.027	2.59#
68)	T	m/p-Xylenes	0.706	0.759	0.785	0.771	0.787	0.747	0.759	3.99
69)	T	o-Xylene	0.703	0.750	0.773	0.759	0.773	0.735	0.749	3.60
70)	T	Styrene	1.100	1.261	1.300	1.288	1.336	1.261	1.258	6.51
71)	P	Bromoform	0.267	0.275	0.292	0.309	0.318	0.310	0.295	7.01
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	4.254	4.249	4.386	4.133	4.249	3.822	4.182	4.63
74)	T	N-amyl acetate	2.341	2.051	2.108	1.945	2.003	1.826	2.046	8.50
75)	P	1,1,2,2-Tetrac...	1.234	1.237	1.210	1.163	1.167	1.085	1.183	4.85
76)	T	1,2,3-Trichlor...	1.233	1.083	1.128	1.094	1.063	0.984	1.097	7.47
77)	T	Bromobenzene	0.900	0.975	0.946	0.927	0.959	0.868	0.929	4.27
78)	T	n-propylbenzene	4.800	4.849	4.998	4.753	4.968	4.526	4.816	3.55
79)	T	2-Chlorotoluene	3.146	3.083	3.184	3.027	3.076	2.802	3.053	4.42
80)	T	1,3,5-Trimethy...	3.479	3.563	3.641	3.490	3.589	3.245	3.501	3.98
81)	T	trans-1,4-Dich...	0.530	0.468	0.524	0.493	0.508	0.504		4.97
82)	T	4-Chlorotoluene	3.261	3.081	3.116	3.014	3.104	2.799	3.062	4.99
83)	T	tert-Butylbenzene	3.103	3.199	3.192	3.098	3.162	2.850	3.101	4.19
84)	T	1,2,4-Trimethy...	3.416	3.592	3.679	3.526	3.654	3.305	3.529	4.10
85)	T	sec-Butylbenzene	4.235	4.265	4.325	4.202	4.384	3.976	4.231	3.33
86)	T	p-Isopropyltol...	3.355	3.569	3.510	3.491	3.682	3.354	3.493	3.62
87)	T	1,3-Dichlorobe...	1.870	1.708	1.757	1.739	1.771	1.643	1.748	4.29
88)	T	1,4-Dichlorobe...	1.862	1.795	1.751	1.728	1.783	1.655	1.762	3.96
89)	T	n-Butylbenzene	2.851	3.017	3.045	3.023	3.216	3.011	3.027	3.84
90)	T	Hexachloroethane	0.620	0.696	0.708	0.686	0.689	0.650	0.675	4.92
91)	T	1,2-Dichlorobe...	1.741	1.731	1.739	1.664	1.704	1.571	1.692	3.90
92)	T	1,2-Dibromo-3-...	0.310	0.307	0.289	0.277	0.281	0.258	0.287	6.84
93)	T	1,2,4-Trichlor...	1.014	0.893	0.938	0.943	0.984	0.914	0.948	4.72
94)	T	Hexachlorobuta...	0.480	0.445	0.429	0.397	0.409	0.368	0.421	9.32
95)	T	Naphthalene	3.429	3.230	3.435	3.365	3.481	3.202	3.357	3.44
96)	T	1,2,3-Trichlor...	0.972	0.920	0.974	0.920	0.963	0.877	0.938	4.09

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
 Data File : VN083135.D
 Acq On : 07 Aug 2024 10:33
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Aug 08 06:14:38 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 05:50:26 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 08/08/2024
 Supervised By :Mahesh Dadoda 08/09/2024

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	217317	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	373033	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	329850	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	162834	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	311531	100.713	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 201.420%#			
35) Dibromofluoromethane	8.165	113	231805	99.556	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 199.120%#			
50) Toluene-d8	10.565	98	896022	103.163	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 206.320%#			
62) 4-Bromofluorobenzene	12.847	95	352947	104.234	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 208.460%#			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.124	85	238119	96.624	ug/l	99
3) Chloromethane	2.359	50	237633	94.185	ug/l	98
4) Vinyl Chloride	2.512	62	244329	94.904	ug/l	100
5) Bromomethane	2.924	94	135920	85.085	ug/l	96
6) Chloroethane	3.100	64	147611	91.645	ug/l	99
7) Trichlorofluoromethane	3.489	101	414913	97.558	ug/l	96
8) Diethyl Ether	3.959	74	151291	95.597	ug/l	83
9) 1,1,2-Trichlorotrifluo...	4.365	101	227550	97.044	ug/l	98
10) Methyl Iodide	4.583	142	307476	99.686	ug/l	97
11) Tert butyl alcohol	5.524	59	296420	461.112	ug/l	98
12) 1,1-Dichloroethene	4.336	96	227537	94.453	ug/l	90
13) Acrolein	4.177	56	218130	520.640	ug/l	98
14) Allyl chloride	5.018	41	389580	85.577	ug/l	93
15) Acrylonitrile	5.718	53	636894	481.734	ug/l	99
16) Acetone	4.424	43	656348	542.264	ug/l	95
17) Carbon Disulfide	4.712	76	637255	90.406	ug/l	99
18) Methyl Acetate	5.024	43	329457	91.357	ug/l	92
19) Methyl tert-butyl Ether	5.794	73	837562	96.324	ug/l	99
20) Methylene Chloride	5.277	84	247283	88.771	ug/l	88
21) trans-1,2-Dichloroethene	5.783	96	231530	92.991	ug/l	95
22) Diisopropyl ether	6.671	45	829706	96.959	ug/l	96
23) Vinyl Acetate	6.600	43	4324915	493.177	ug/l	95
24) 1,1-Dichloroethane	6.571	63	451253	96.746	ug/l	99
25) 2-Butanone	7.482	43	908992	489.098	ug/l	91
26) 2,2-Dichloropropane	7.488	77	433489	100.075	ug/l	98
27) cis-1,2-Dichloroethene	7.488	96	286100	95.225	ug/l	93
28) Bromochloromethane	7.812	49	185533	97.333	ug/l	85
29) Tetrahydrofuran	7.841	42	587324	488.865	ug/l	88
30) Chloroform	7.965	83	472257	97.456	ug/l	99
31) Cyclohexane	8.259	56	405666	88.496	ug/l	98
32) 1,1,1-Trichloroethane	8.171	97	446446	97.332	ug/l	95
36) 1,1-Dichloropropene	8.371	75	340980	96.808	ug/l	98
37) Ethyl Acetate	7.559	43	357308	90.602	ug/l #	93
38) Carbon Tetrachloride	8.359	117	391148	98.597	ug/l	96
39) Methylcyclohexane	9.600	83	421743	97.486	ug/l	97
40) Benzene	8.606	78	1034059	98.550	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
 Data File : VN083135.D
 Acq On : 07 Aug 2024 10:33
 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 08/08/2024
 Supervised By :Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 06:14:38 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 05:50:26 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	205844	91.799	ug/l	95
42) 1,2-Dichloroethane	8.671	62	368412	96.385	ug/l	97
43) Isopropyl Acetate	8.688	43	648582	99.962	ug/l #	93
44) Trichloroethene	9.353	130	246689	98.774	ug/l	93
45) 1,2-Dichloropropane	9.624	63	247262	99.275	ug/l	98
46) Dibromomethane	9.712	93	177294	99.449	ug/l	98
47) Bromodichloromethane	9.888	83	389020	97.184	ug/l	100
48) Methyl methacrylate	9.682	41	309367	94.886	ug/l	91
49) 1,4-Dioxane	9.694	88	117342	1994.879	ug/l	94
51) 4-Methyl-2-Pentanone	10.447	43	1846346	495.091	ug/l	92
52) Toluene	10.629	92	665274	100.347	ug/l	97
53) t-1,3-Dichloropropene	10.835	75	424825	103.317	ug/l	98
54) cis-1,3-Dichloropropene	10.312	75	436928	99.903	ug/l	90
55) 1,1,2-Trichloroethane	11.018	97	240237	101.114	ug/l	96
56) Ethyl methacrylate	10.876	69	448632	100.164	ug/l #	84
57) 1,3-Dichloropropane	11.165	76	418505	98.824	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	984478	519.987	ug/l	96
59) 2-Hexanone	11.194	43	1447307	501.642	ug/l	92
60) Dibromochloromethane	11.359	129	298498	103.914	ug/l	98
61) 1,2-Dibromoethane	11.470	107	249072	99.794	ug/l	96
64) Tetrachloroethene	11.106	164	210334	96.284	ug/l	96
65) Chlorobenzene	11.894	112	705635	96.805	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	250772	97.546	ug/l	99
67) Ethyl Benzene	11.965	91	1297632	97.041	ug/l	99
68) m/p-Xylenes	12.070	106	984984	196.641	ug/l	99
69) o-Xylene	12.400	106	484673	98.107	ug/l	97
70) Styrene	12.412	104	831903	100.261	ug/l	99
71) Bromoform	12.576	173	204380	104.942	ug/l #	99
73) Isopropylbenzene	12.694	105	1244845	91.399	ug/l	100
74) N-amyl acetate	12.494	43	594797	89.282	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.941	83	353346	91.727	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	320302m	89.478	ug/l	
77) Bromobenzene	12.982	156	282676	93.431	ug/l	96
78) n-propylbenzene	13.035	91	1473868	93.979	ug/l	99
79) 2-Chlorotoluene	13.123	91	912618	91.785	ug/l	98
80) 1,3,5-Trimethylbenzene	13.170	105	1056912	92.690	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.735	75	165326	100.628	ug/l	89
82) 4-Chlorotoluene	13.223	91	911384	91.381	ug/l	98
83) tert-Butylbenzene	13.441	119	928195	91.918	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	1076449	93.675	ug/l	99
85) sec-Butylbenzene	13.617	105	1294900	93.978	ug/l	100
86) p-Isopropyltoluene	13.729	119	1092439	96.022	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	535193	94.009	ug/l	99
88) 1,4-Dichlorobenzene	13.811	146	538924	93.900	ug/l	99
89) n-Butylbenzene	14.059	91	980482	99.461	ug/l	98
90) Hexachloroethane	14.335	117	211710	96.320	ug/l	95
91) 1,2-Dichlorobenzene	14.106	146	511584	92.863	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.723	75	83930	89.788	ug/l	98
93) 1,2,4-Trichlorobenzene	15.394	180	297699	96.456	ug/l	99
94) Hexachlorobutadiene	15.500	225	119783	87.268	ug/l	98
95) Naphthalene	15.641	128	1042864	95.391	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	285769	93.575	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083135.D
Acq On : 07 Aug 2024 10:33
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 08/08/2024
Supervised By : Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 06:14:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 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\VN080724\
 Data File : VN083135.D
 Acq On : 07 Aug 2024 10:33
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

MSVOA_N

Client Sample Id :

VSTDICC100

Manual Integrations

APPROVED

Reviewed By : John Carlone 08/08/2024

Supervised By : Mahesh Dadoda 08/09/2024

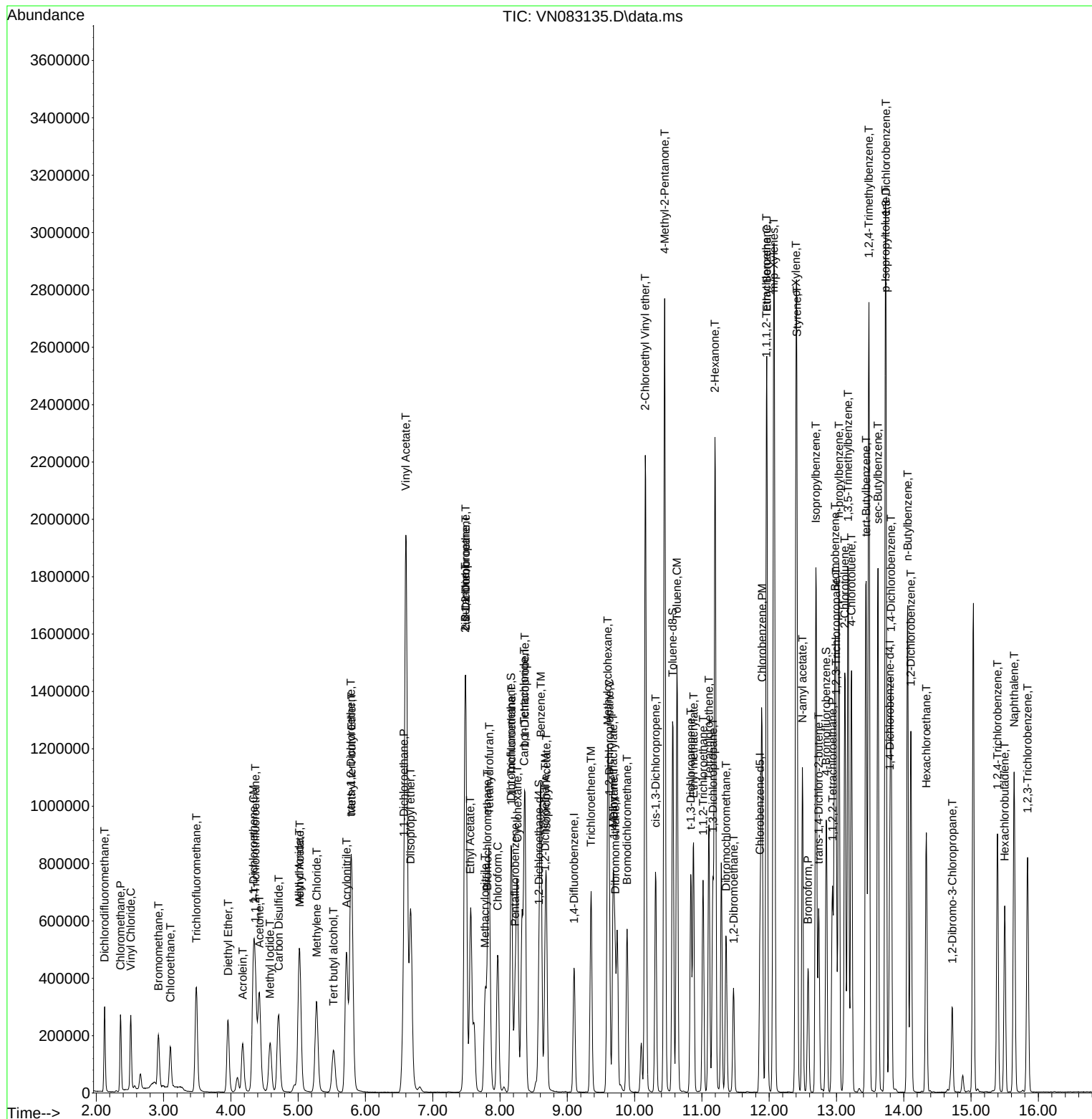
Quant Time: Aug 08 06:14:38 2024

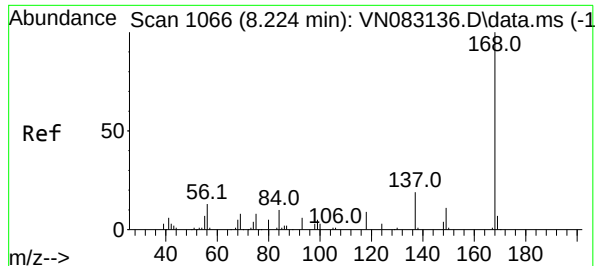
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M

Quant Title : SW846 8260

QLast Update : Thu Aug 08 05:50:26 2024

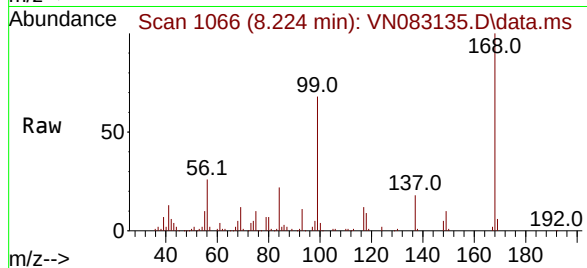
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

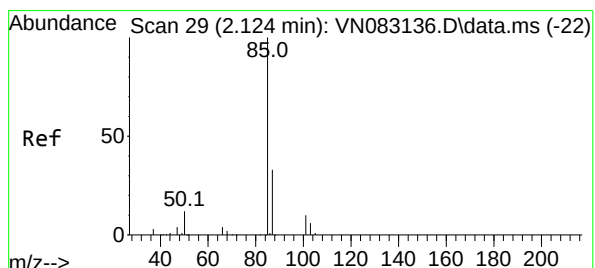
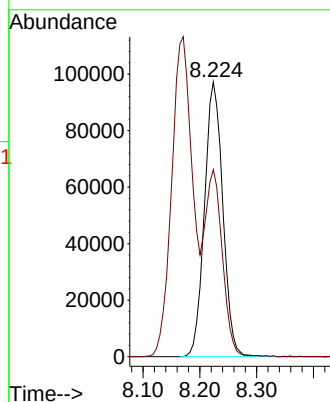
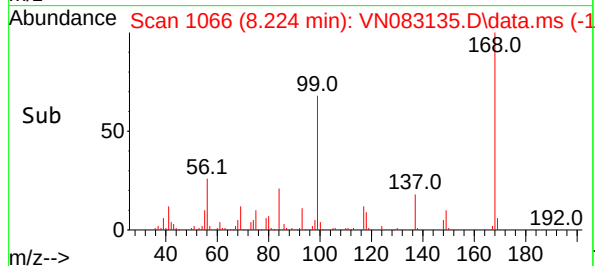
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:168 Resp: 21731
Ion Ratio Lower Upper
168 100
99 68.1 48.2 72.4

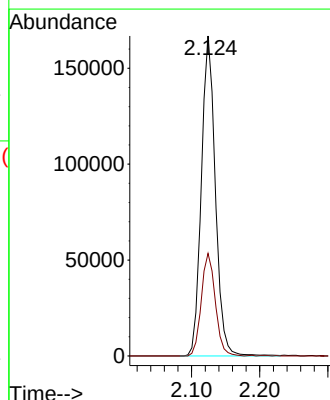
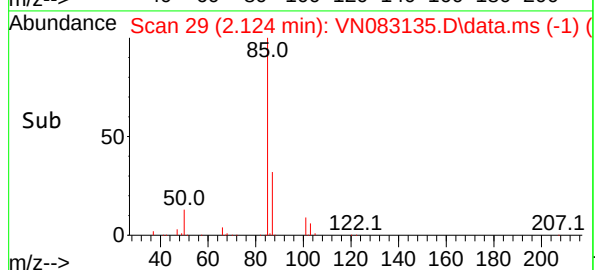
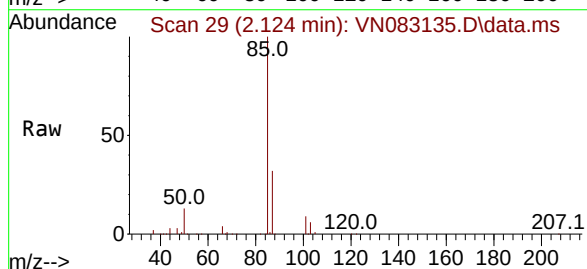
Manual Integrations
APPROVED

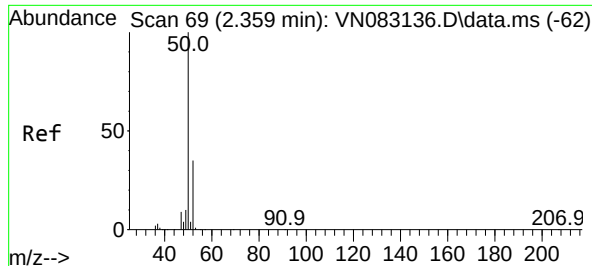
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#2
Dichlorodifluoromethane
Concen: 96.624 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

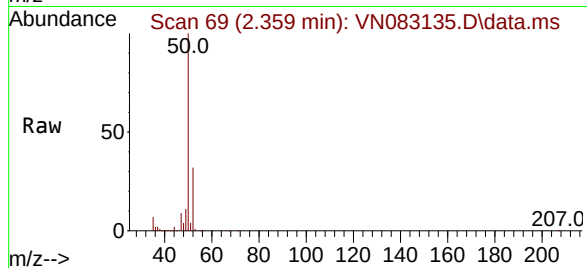
Tgt Ion: 85 Resp: 238119
Ion Ratio Lower Upper
85 100
87 32.1 15.7 47.0





#3
Chloromethane
Concen: 94.185 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

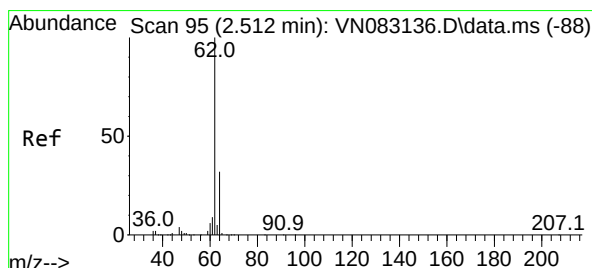
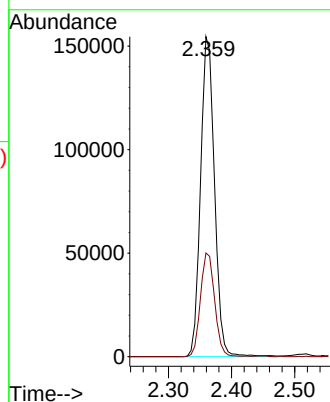
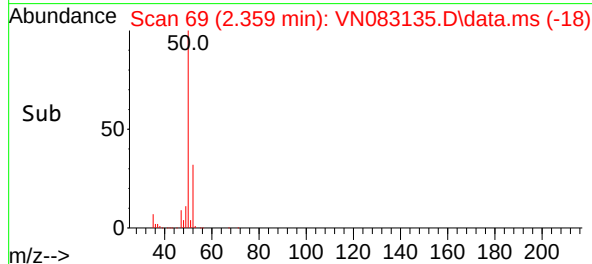
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 50 Resp: 23763
Ion Ratio Lower Upper
50 100
52 32.4 25.0 37.4

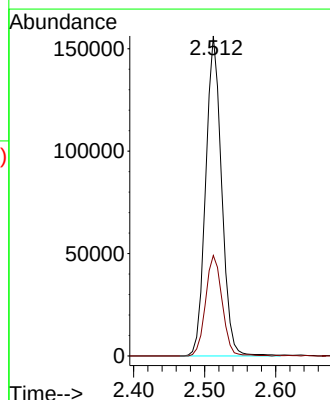
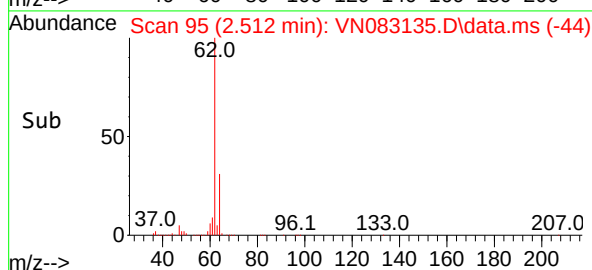
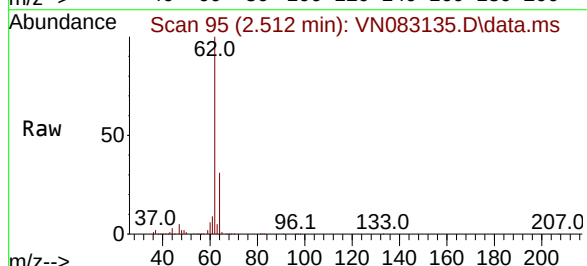
Manual Integrations
APPROVED

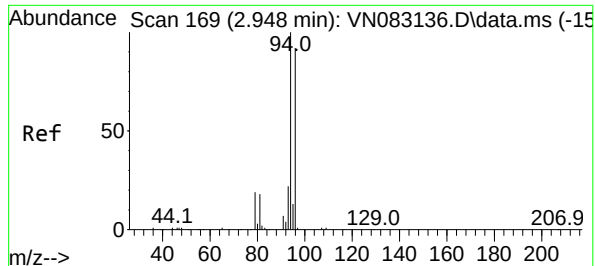
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#4
Vinyl Chloride
Concen: 94.904 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

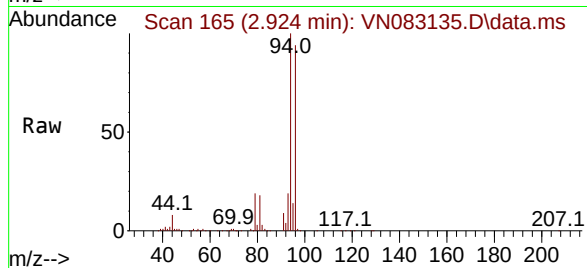
Tgt Ion: 62 Resp: 244329
Ion Ratio Lower Upper
62 100
64 31.4 25.0 37.6





#5
Bromomethane
Concen: 85.085 ug/l
RT: 2.924 min Scan# 1
Delta R.T. -0.024 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

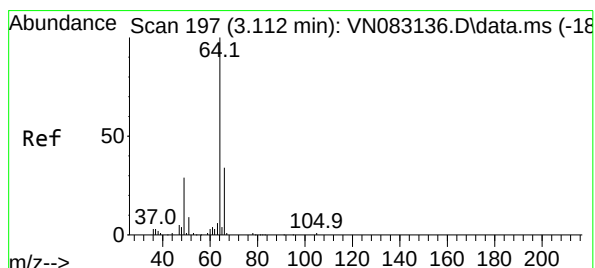
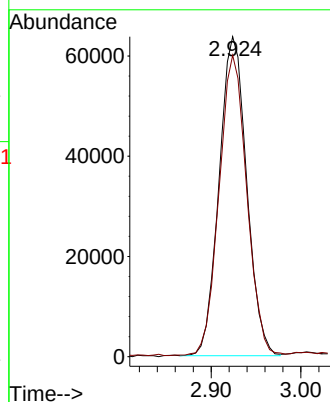
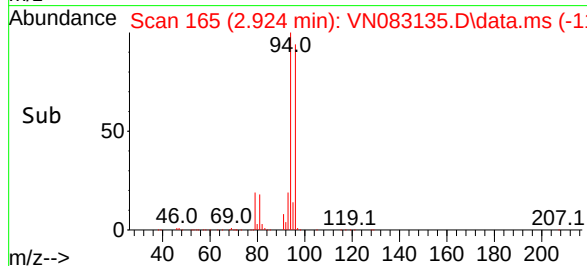
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 94 Resp: 135920
Ion Ratio Lower Upper
94 100
96 94.0 78.0 117.0

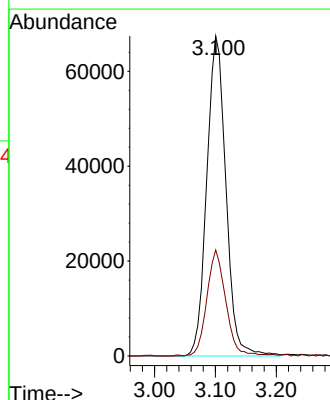
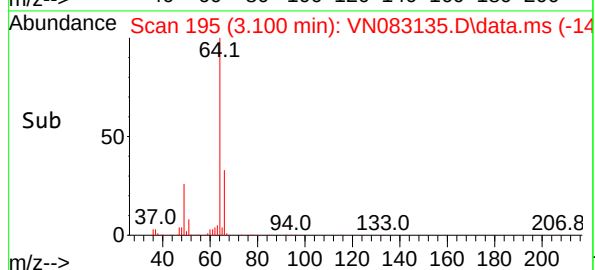
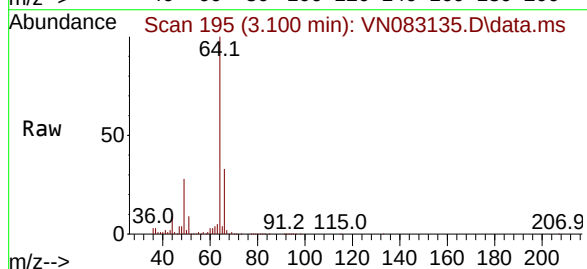
Manual Integrations
APPROVED

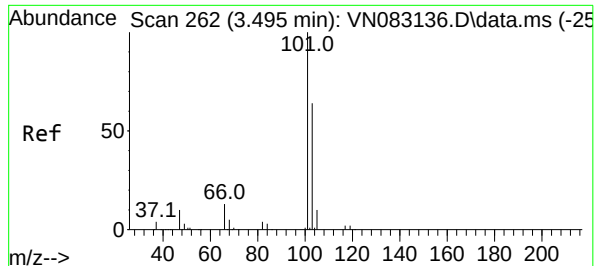
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#6
Chloroethane
Concen: 91.645 ug/l
RT: 3.100 min Scan# 195
Delta R.T. -0.012 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

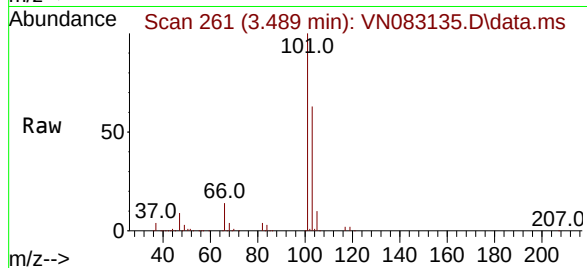
Tgt Ion: 64 Resp: 147611
Ion Ratio Lower Upper
64 100
66 32.9 26.6 40.0





#7
Trichlorofluoromethane
Concen: 97.558 ug/l
RT: 3.489 min Scan# 262
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

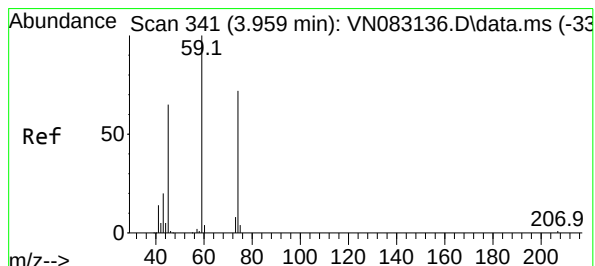
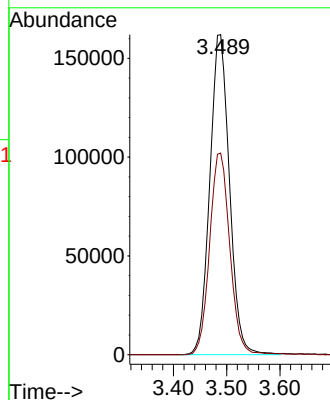
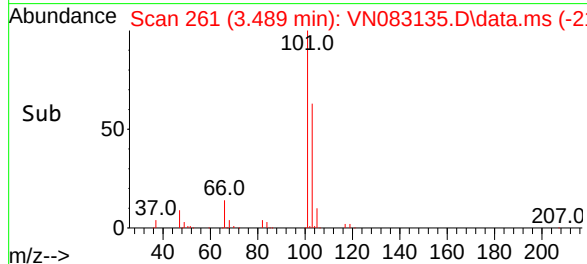
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:101 Resp: 41491
Ion Ratio Lower Upper
101 100
103 63.0 52.7 79.1

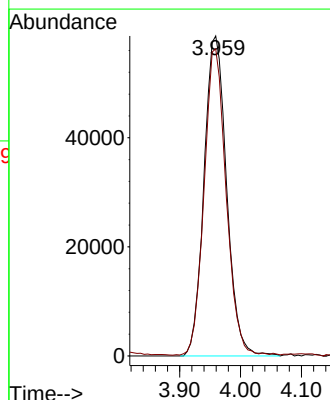
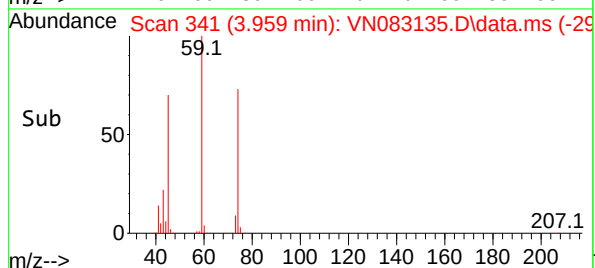
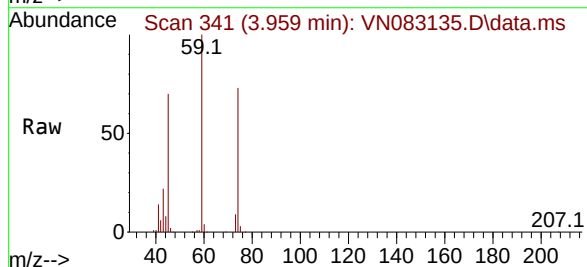
Manual Integrations
APPROVED

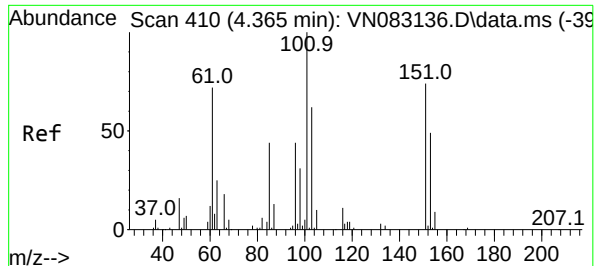
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#8
Diethyl Ether
Concen: 95.597 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 74 Resp: 151291
Ion Ratio Lower Upper
74 100
45 93.4 55.5 166.3





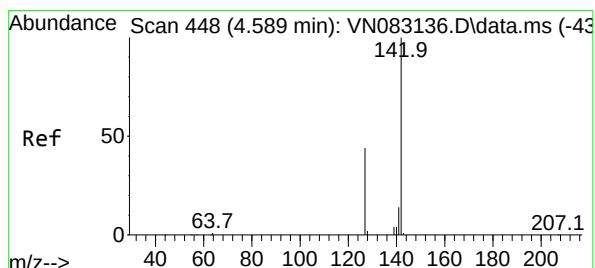
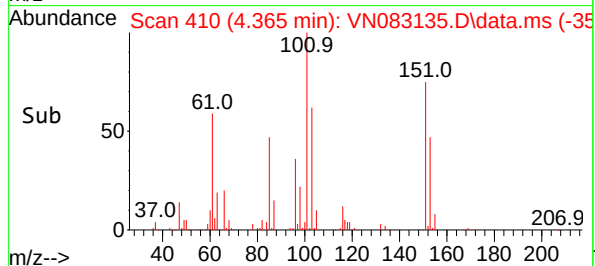
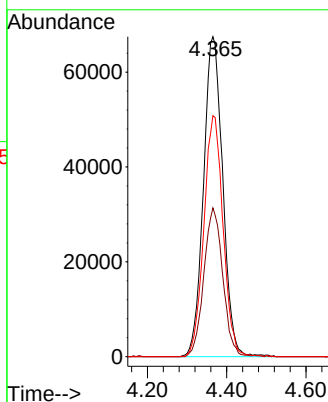
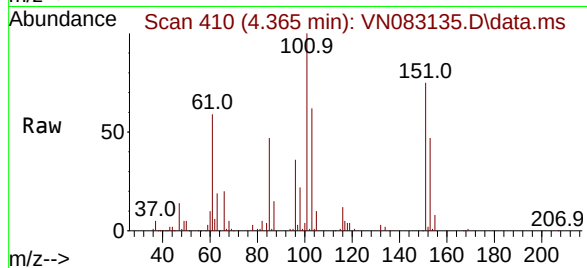
#9
1,1,2-Trichlorotrifluoroethane
Concen: 97.044 ug/l
RT: 4.365 min Scan# 410
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 227550
Ion Ratio Lower Upper
101 100
85 45.6 38.3 57.5
151 75.2 59.3 88.9

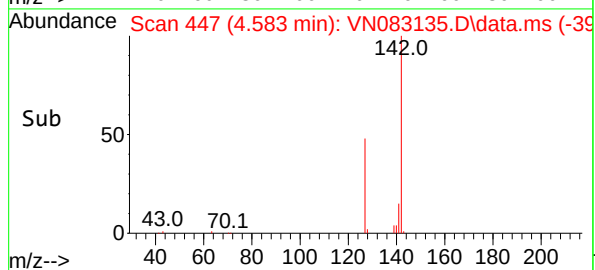
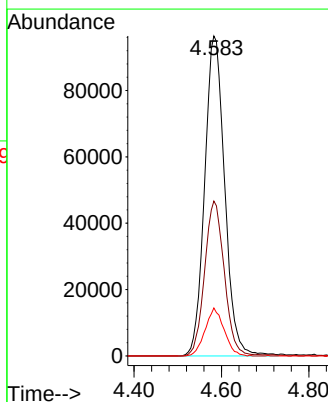
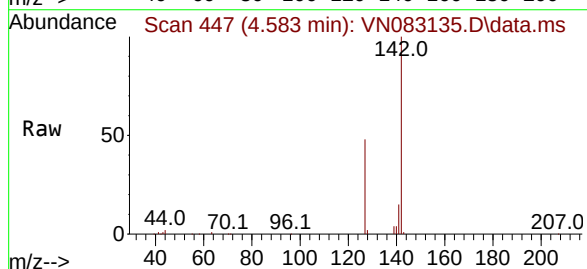
Manual Integrations
APPROVED

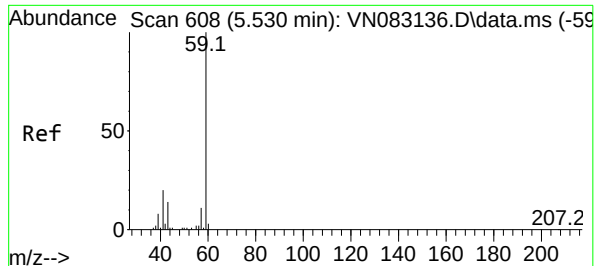
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#10
Methyl Iodide
Concen: 99.686 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:142 Resp: 307476
Ion Ratio Lower Upper
142 100
127 48.4 37.5 56.3
141 15.0 13.1 19.7





#11

Tert butyl alcohol

Concen: 461.112 ug/l

RT: 5.524 min Scan# 608

Delta R.T. -0.006 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 59 Resp: 296420

Ion Ratio Lower Upper

59 100

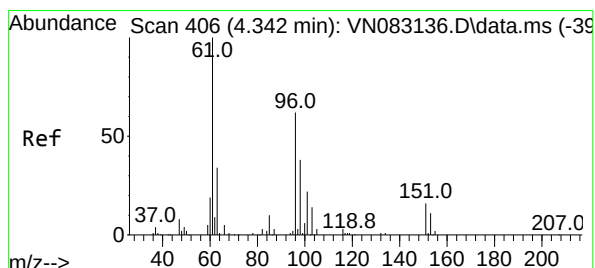
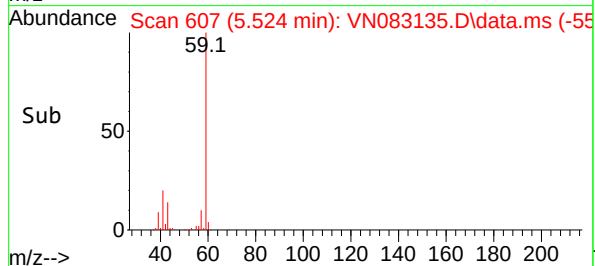
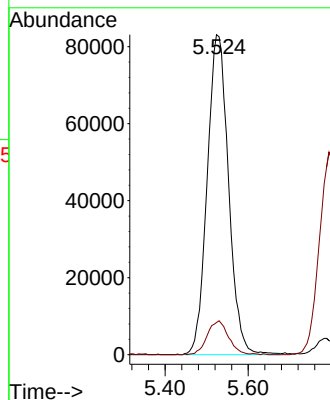
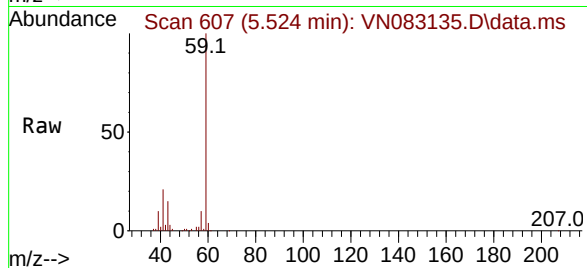
57 10.5 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#12

1,1-Dichloroethene

Concen: 94.453 ug/l

RT: 4.336 min Scan# 405

Delta R.T. -0.006 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

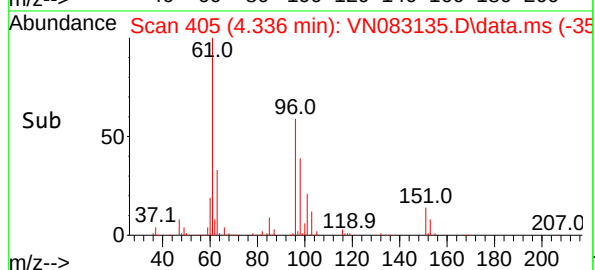
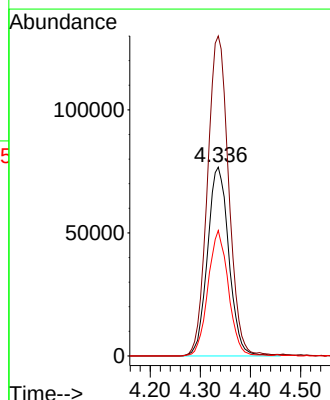
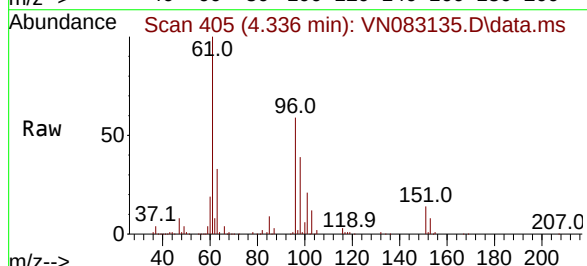
Tgt Ion: 96 Resp: 227537

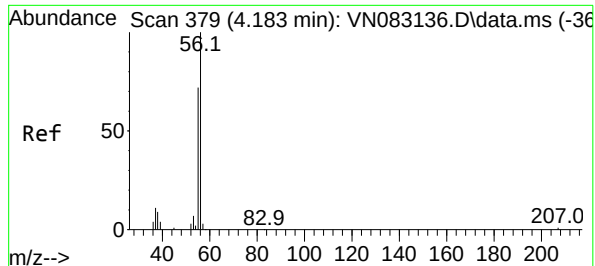
Ion Ratio Lower Upper

96 100

61 169.4 149.7 224.5

98 66.5 50.1 75.1





#13

Acrolein

Concen: 520.640 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.006 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 218130

Ion Ratio Lower Upper

56 100

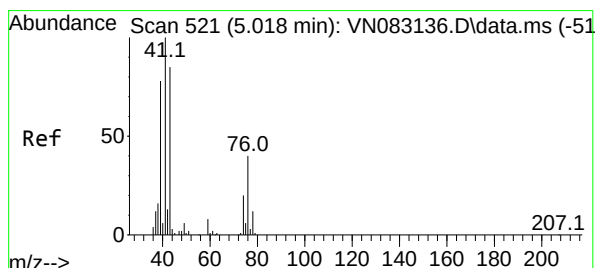
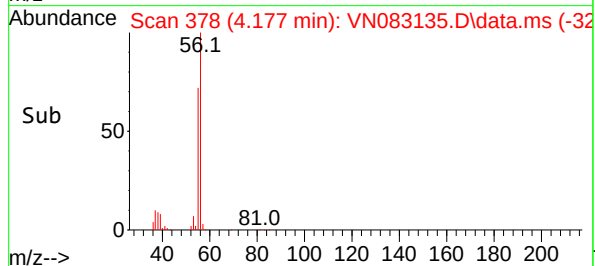
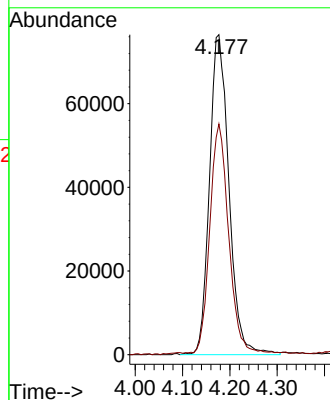
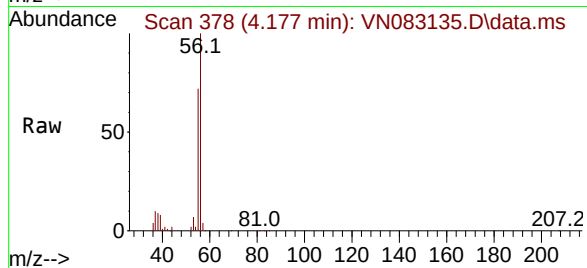
55 68.5 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#14

Allyl chloride

Concen: 85.577 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

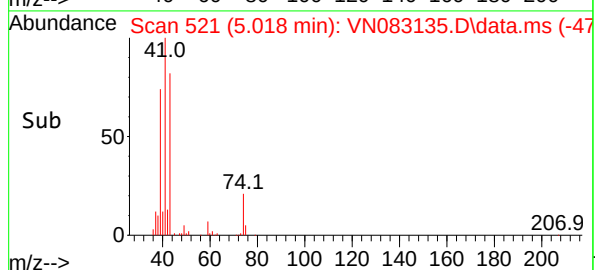
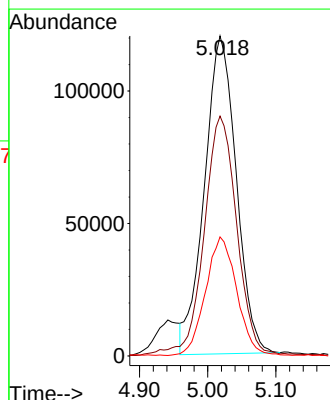
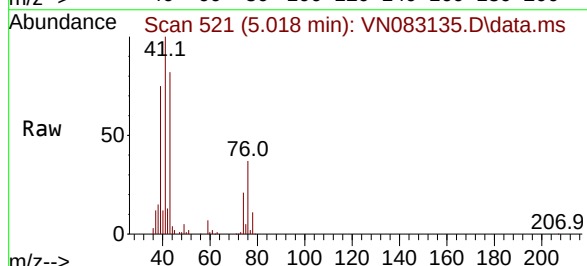
Tgt Ion: 41 Resp: 389580

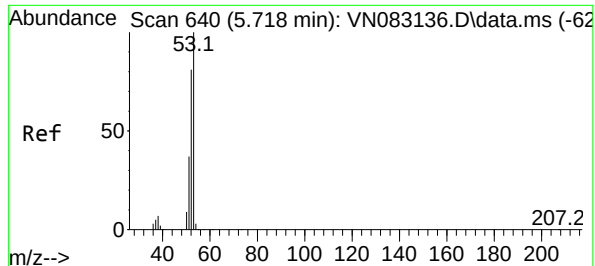
Ion Ratio Lower Upper

41 100

39 78.4 67.8 101.6

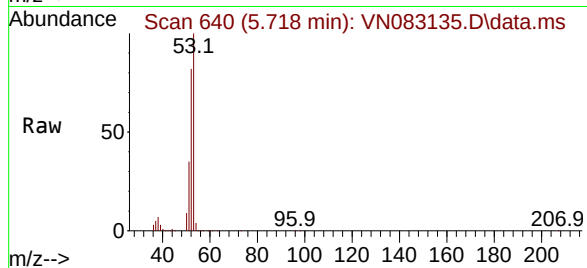
76 36.6 25.8 38.8





#15
Acrylonitrile
Concen: 481.734 ug/l
RT: 5.718 min Scan# 640
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

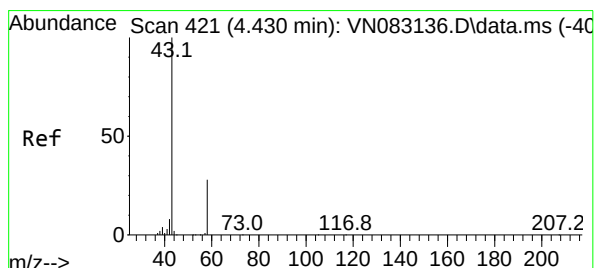
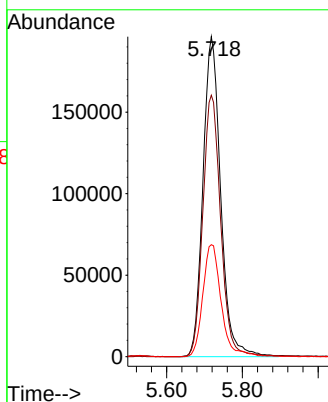
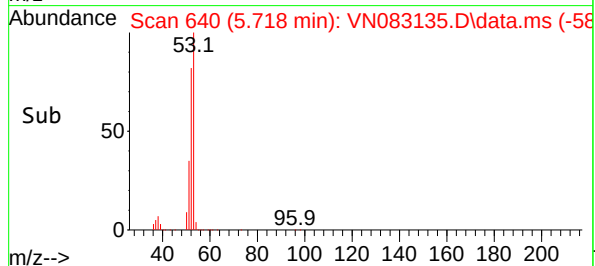
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 53 Resp: 636894
Ion Ratio Lower Upper
53 100
52 82.5 66.6 100.0
51 36.4 30.1 45.1

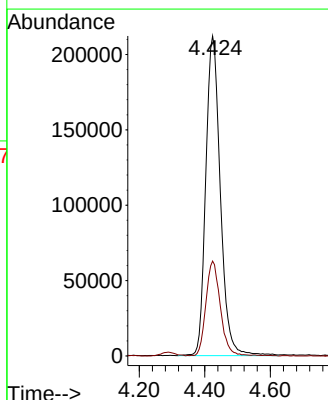
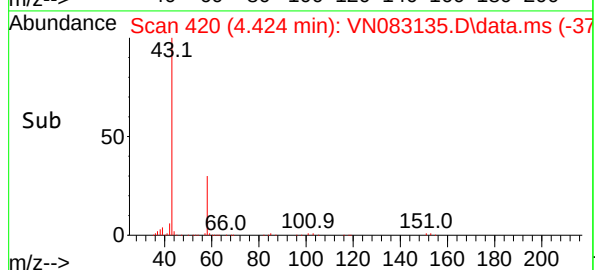
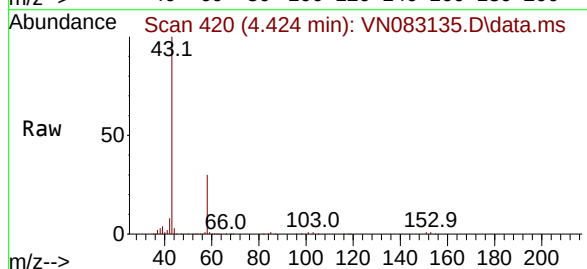
Manual Integrations
APPROVED

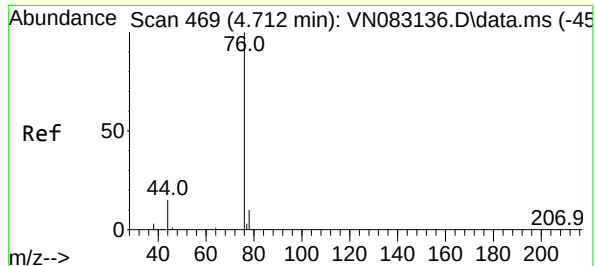
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#16
Acetone
Concen: 542.264 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 43 Resp: 656348
Ion Ratio Lower Upper
43 100
58 29.7 21.8 32.6





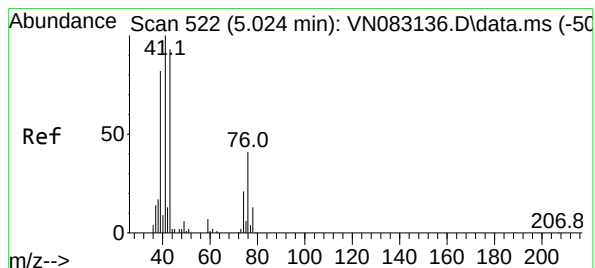
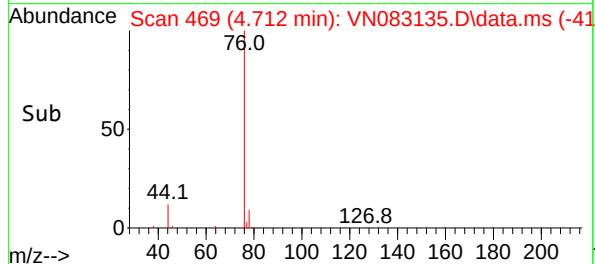
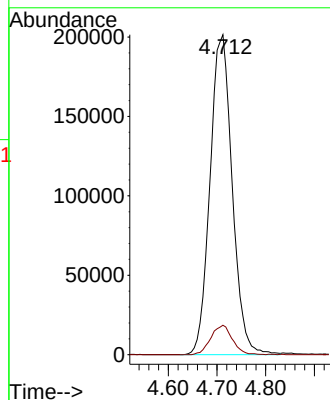
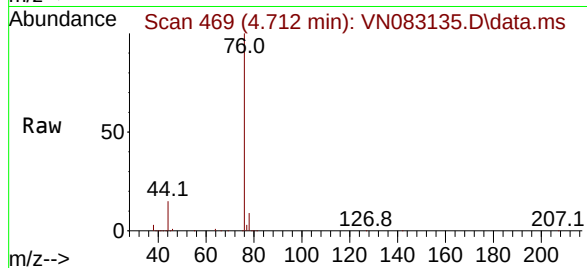
#17
Carbon Disulfide
Concen: 90.406 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 63725
Ion Ratio Lower Upper
76 100
78 9.2 7.2 10.8

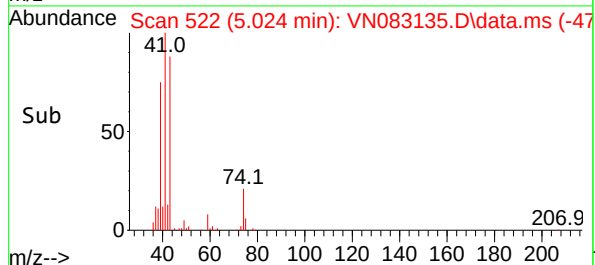
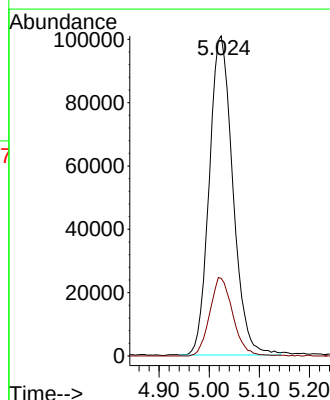
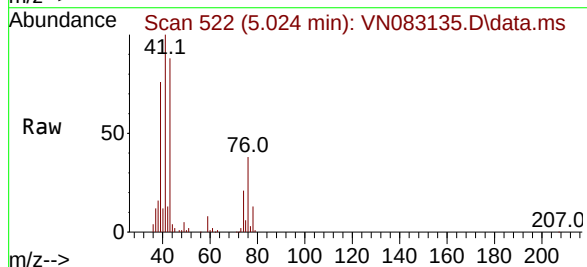
Manual Integrations
APPROVED

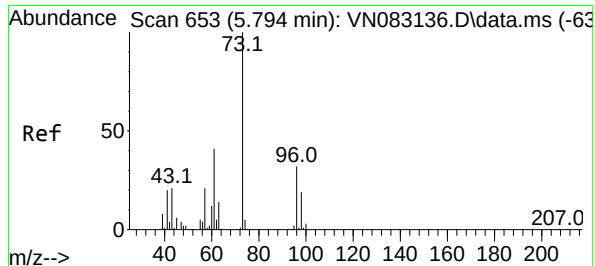
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#18
Methyl Acetate
Concen: 91.357 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 43 Resp: 329457
Ion Ratio Lower Upper
43 100
74 24.0 16.3 24.5





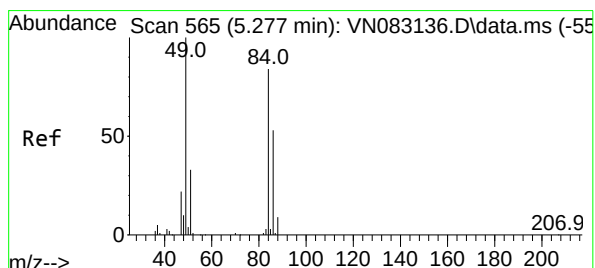
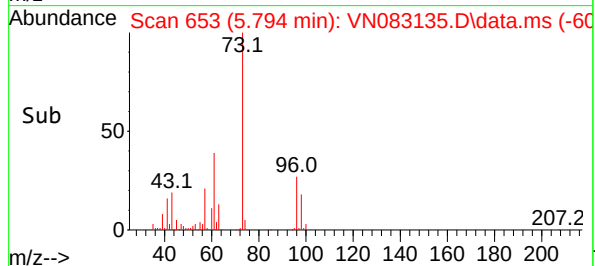
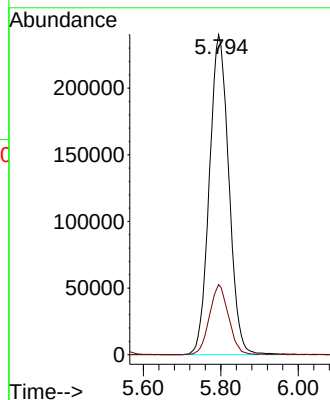
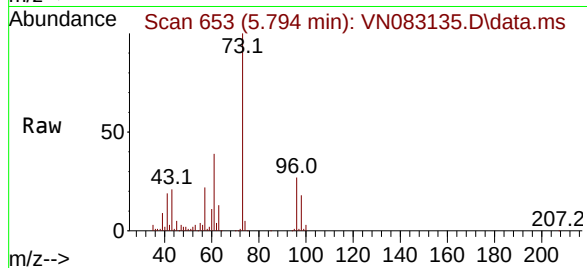
#19
Methyl tert-butyl Ether
Concen: 96.324 ug/l
RT: 5.794 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 73 Resp: 837562
Ion Ratio Lower Upper
73 100
57 21.9 17.9 26.9

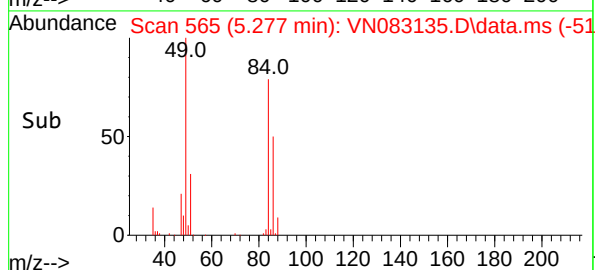
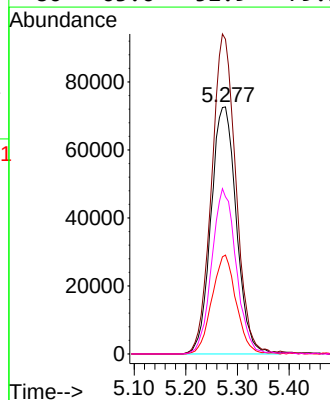
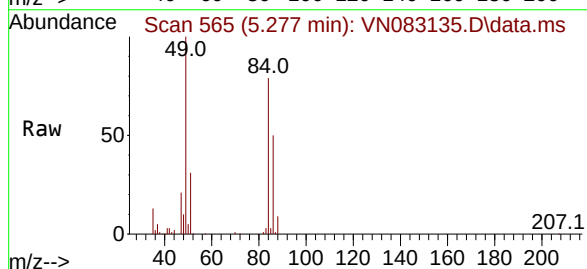
Manual Integrations
APPROVED

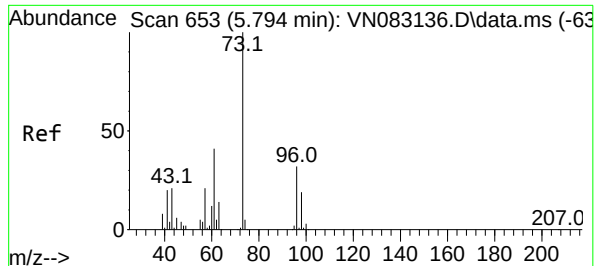
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#20
Methylene Chloride
Concen: 88.771 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

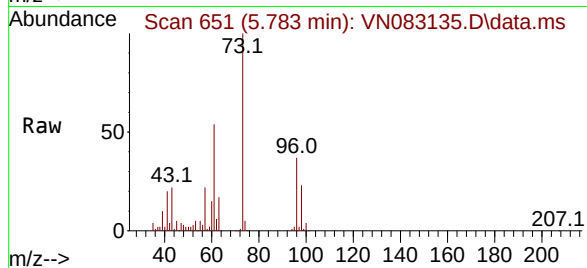
Tgt Ion: 84 Resp: 247283
Ion Ratio Lower Upper
84 100
49 127.4 119.6 179.4
51 40.0 34.8 52.2
86 63.6 52.9 79.3





#21
trans-1,2-Dichloroethene
Concen: 92.991 ug/l
RT: 5.783 min Scan# 651
Delta R.T. -0.012 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

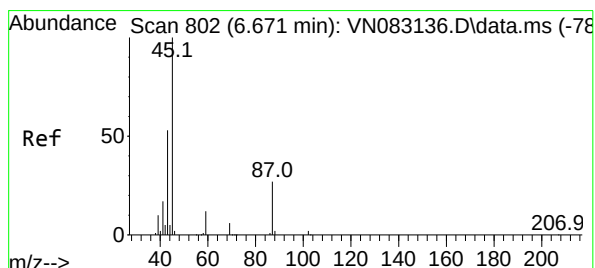
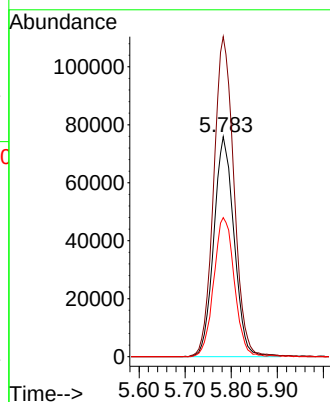
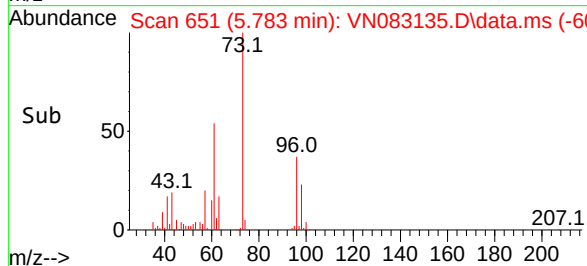
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 96 Resp: 231530
Ion Ratio Lower Upper
96 100
61 145.4 123.4 185.2
98 63.2 49.3 73.9

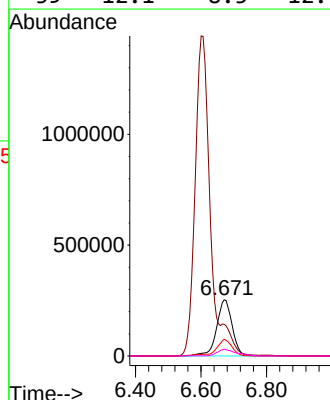
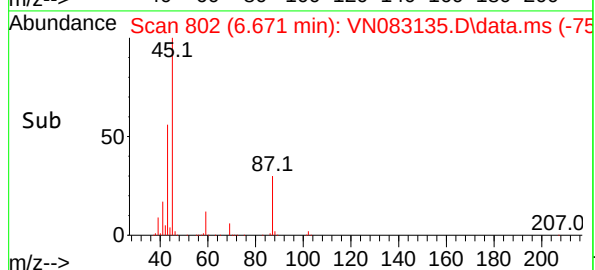
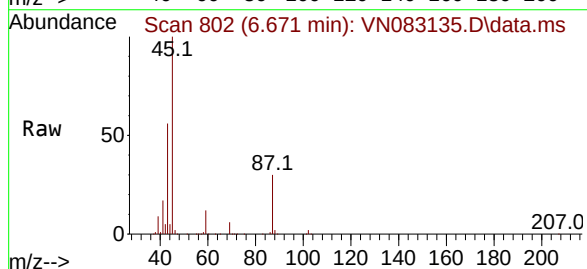
Manual Integrations
APPROVED

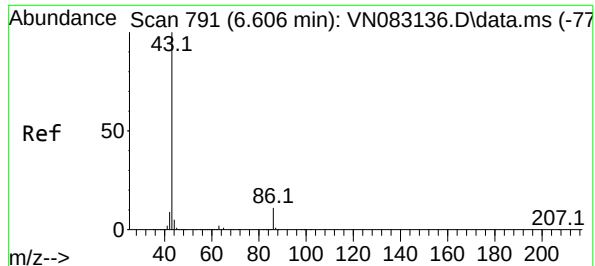
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#22
Diisopropyl ether
Concen: 96.959 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 45 Resp: 829706
Ion Ratio Lower Upper
45 100
43 55.8 44.0 66.0
87 29.5 19.7 29.5
59 12.1 8.5 12.7





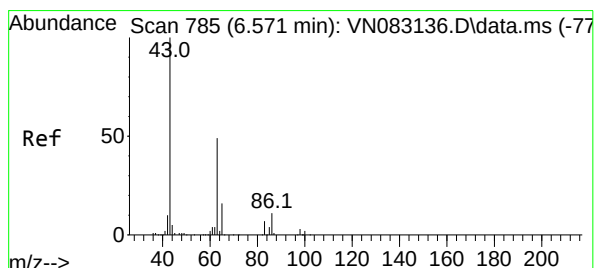
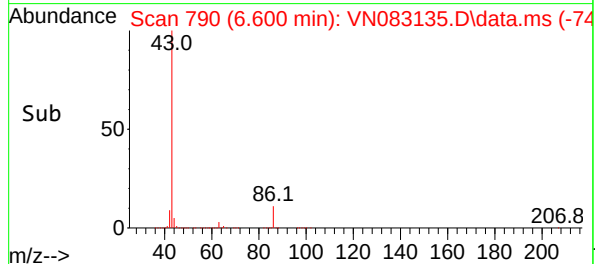
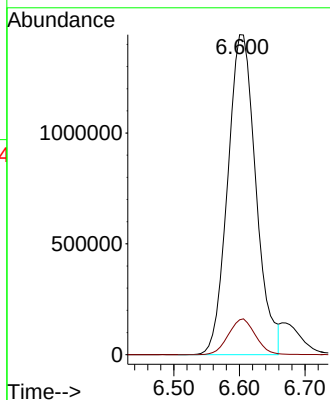
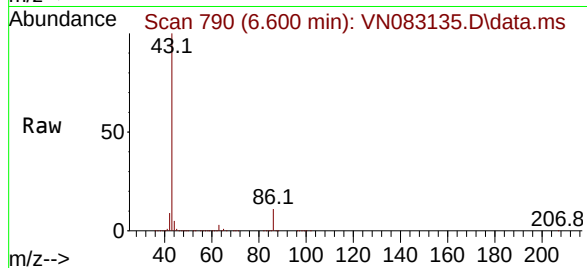
#23
Vinyl Acetate
Concen: 493.177 ug/l
RT: 6.600 min Scan# 791
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 432491
Ion Ratio Lower Upper
43 100
86 10.9 7.3 10.9

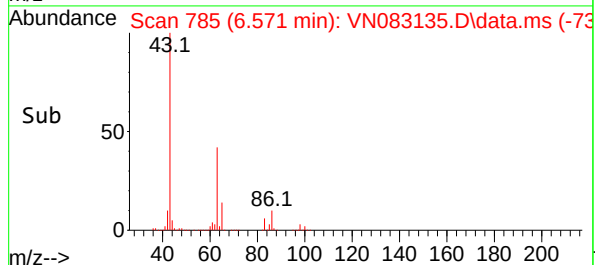
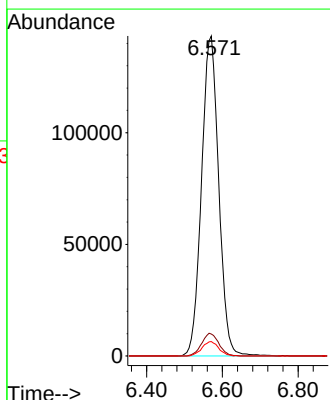
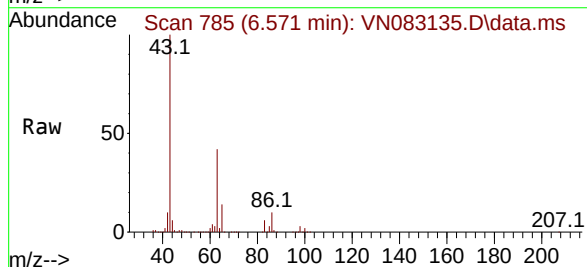
Manual Integrations
APPROVED

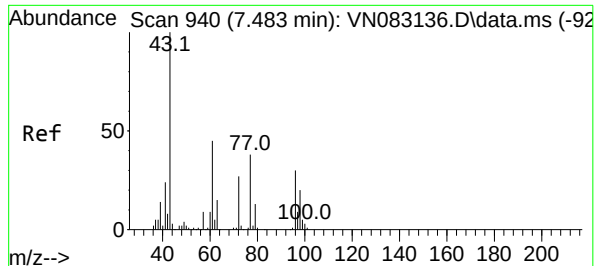
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#24
1,1-Dichloroethane
Concen: 96.746 ug/l
RT: 6.571 min Scan# 785
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

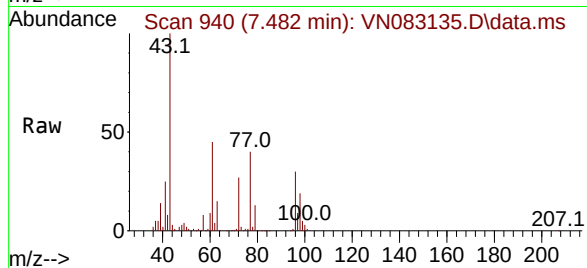
Tgt Ion: 63 Resp: 451253
Ion Ratio Lower Upper
63 100
98 6.8 3.3 9.9
100 4.5 2.0 6.0





#25
2-Butanone
Concen: 489.098 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

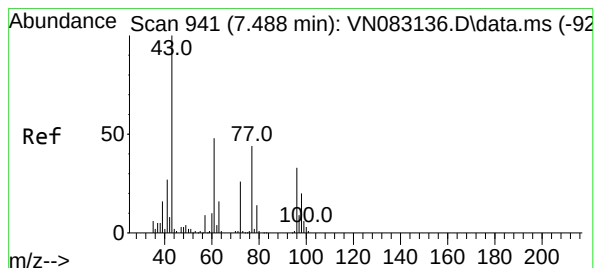
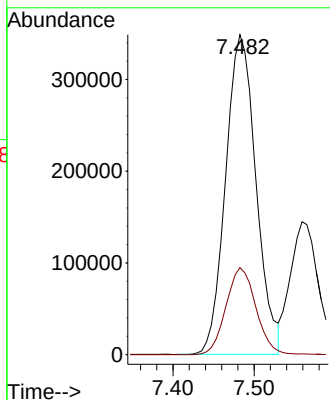
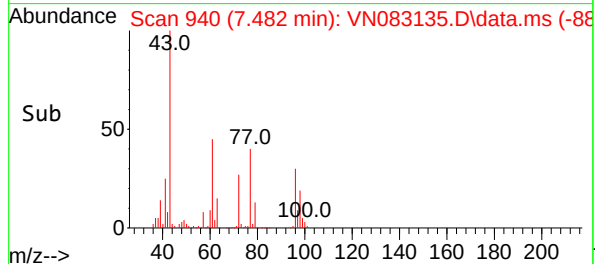
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 43 Resp: 908992
Ion Ratio Lower Upper
43 100
72 27.2 18.2 27.2

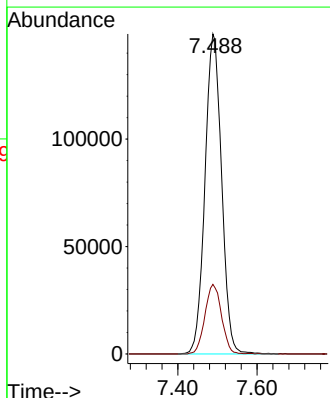
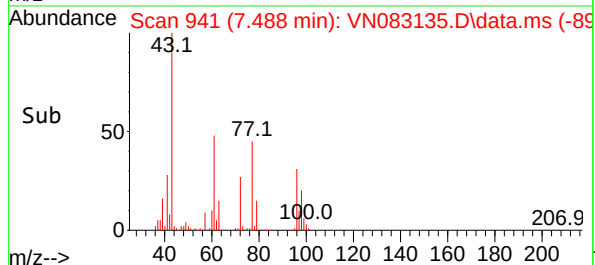
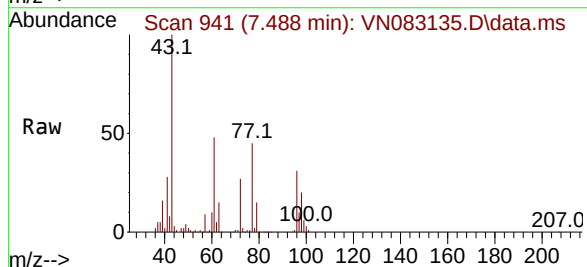
Manual Integrations
APPROVED

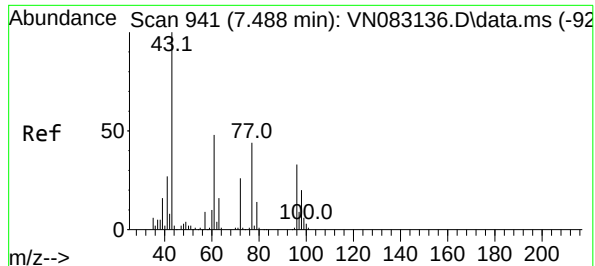
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#26
2,2-Dichloropropane
Concen: 100.075 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

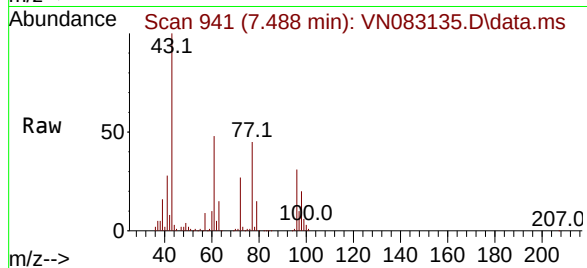
Tgt Ion: 77 Resp: 433489
Ion Ratio Lower Upper
77 100
97 21.7 10.3 30.9





#27
cis-1,2-Dichloroethene
Concen: 95.225 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

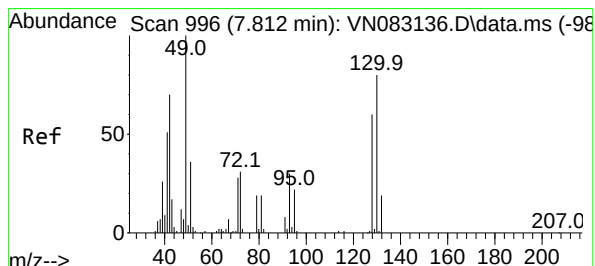
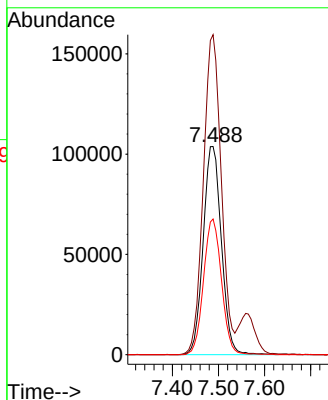
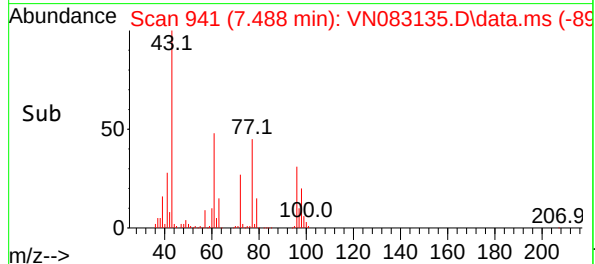
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 96 Resp: 286100
Ion Ratio Lower Upper
96 100
61 151.6 0.0 329.6
98 64.3 0.0 128.6

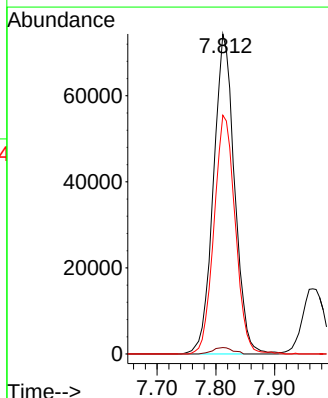
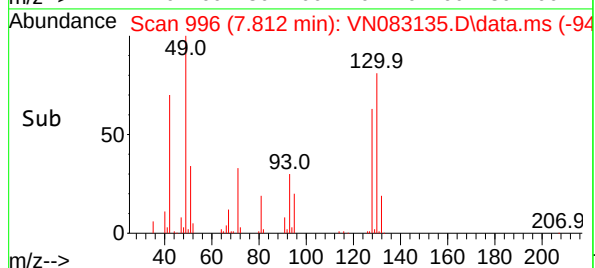
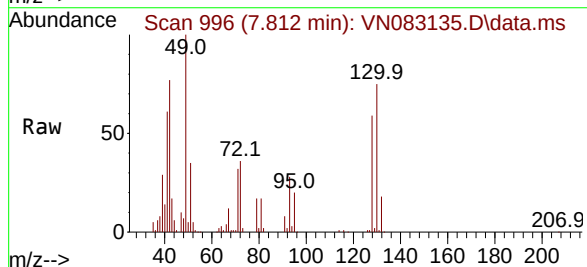
Manual Integrations
APPROVED

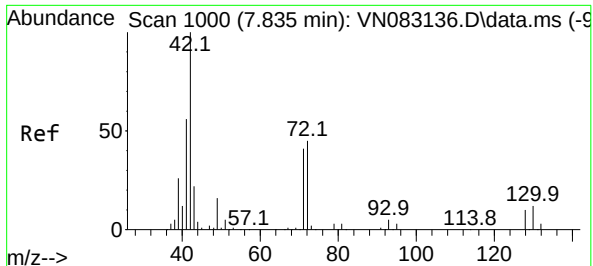
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#28
Bromochloromethane
Concen: 97.333 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 49 Resp: 185533
Ion Ratio Lower Upper
49 100
129 1.9 0.0 3.8
130 74.9 50.5 75.7





#29

Tetrahydrofuran

Concen: 488.865 ug/l

RT: 7.841 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 42 Resp: 587324

Ion Ratio Lower Upper

42 100

72 44.6 30.0 45.0

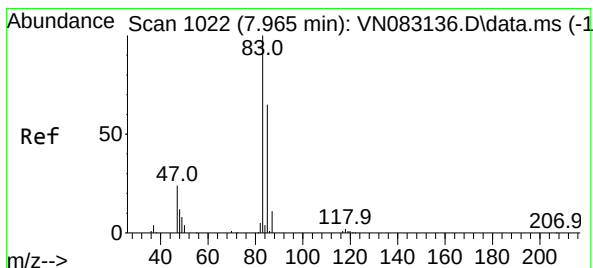
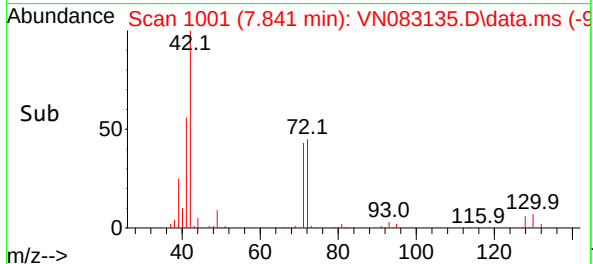
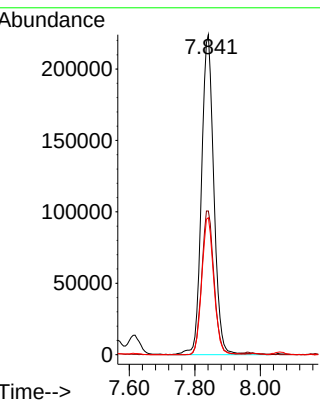
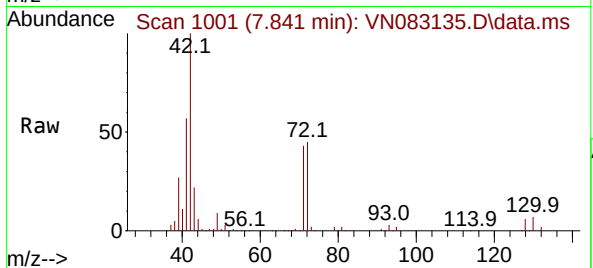
71 41.9 28.3 42.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#30

Chloroform

Concen: 97.456 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. -0.000 min

Lab File: VN083135.D

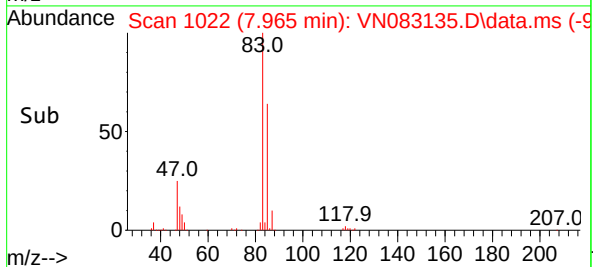
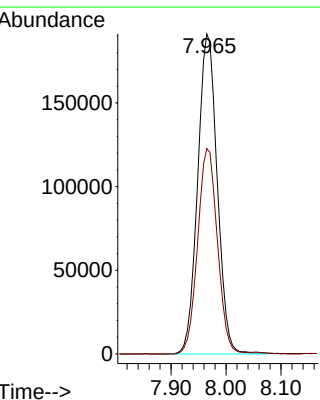
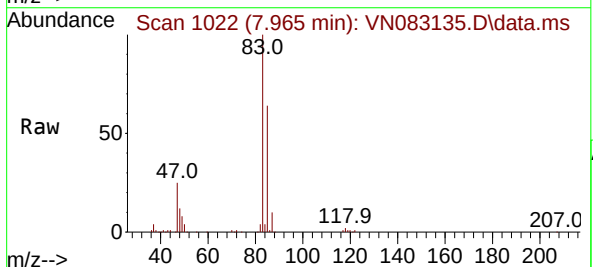
Acq: 07 Aug 2024 10:33

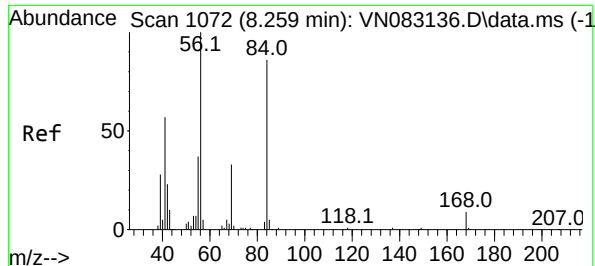
Tgt Ion: 83 Resp: 472257

Ion Ratio Lower Upper

83 100

85 64.2 50.9 76.3





#31

Cyclohexane

Concen: 88.496 ug/l

RT: 8.259 min Scan# 1072

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 40566

Ion Ratio Lower Upper

56 100

69 29.7 24.5 36.7

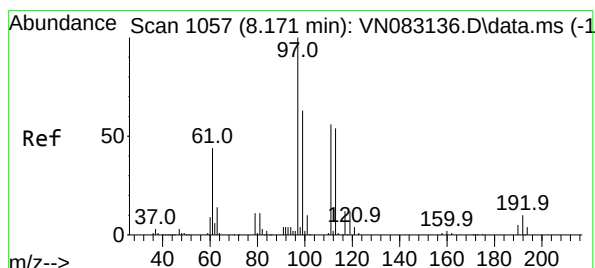
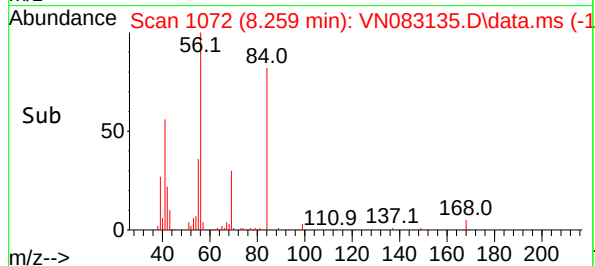
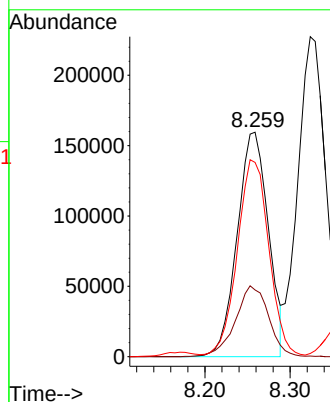
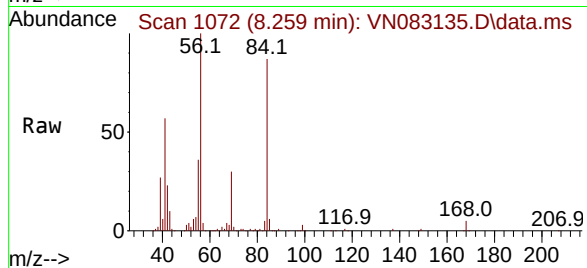
84 84.5 66.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#32

1,1,1-Trichloroethane

Concen: 97.332 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

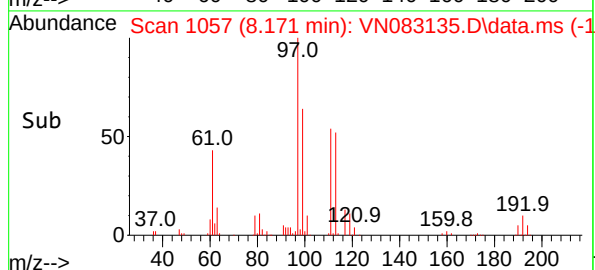
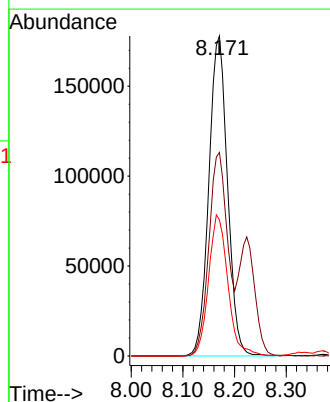
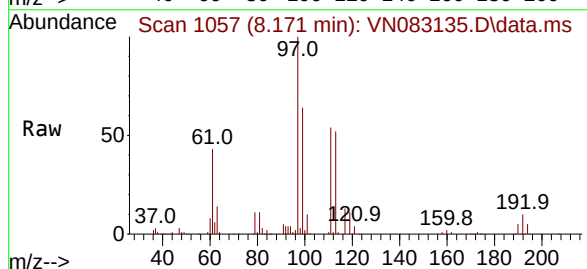
Tgt Ion: 97 Resp: 446446

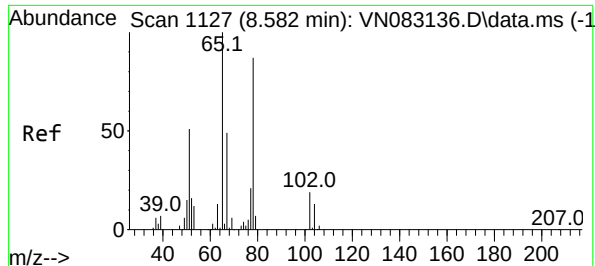
Ion Ratio Lower Upper

97 100

99 64.7 52.0 78.0

61 45.7 42.1 63.1





#33

1,2-Dichloroethane-d4

Concen: 100.713 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 65 Resp: 31153

Ion Ratio Lower Upper

65 100

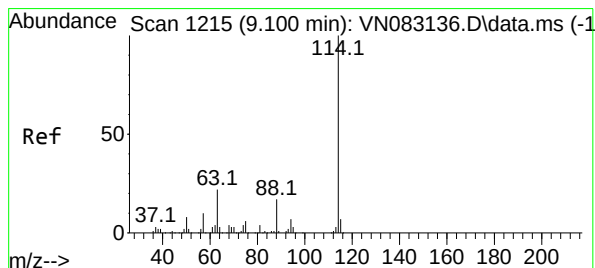
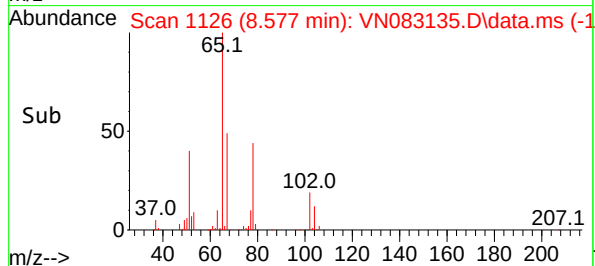
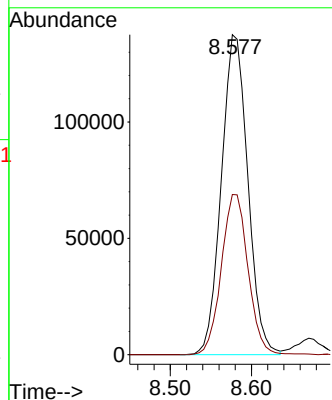
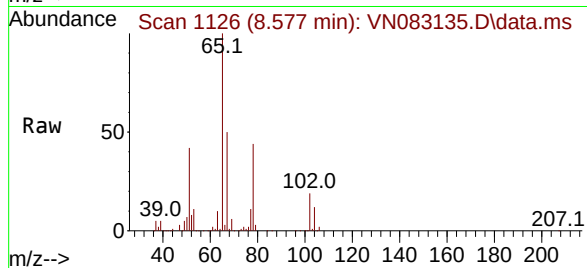
67 50.6 0.0 104.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

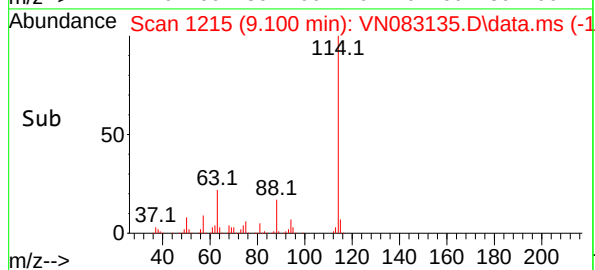
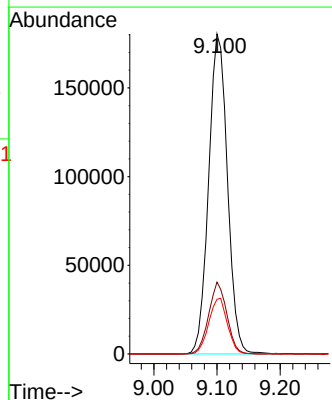
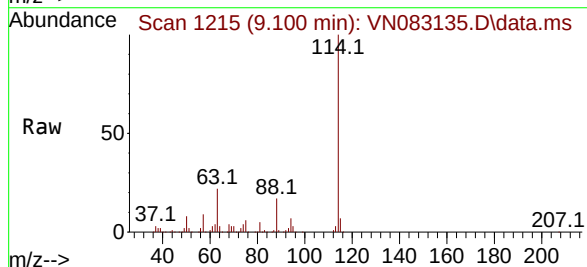
Tgt Ion:114 Resp: 373033

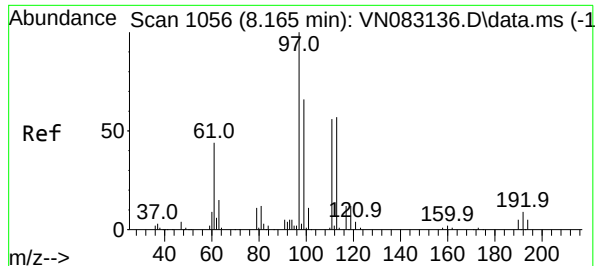
Ion Ratio Lower Upper

114 100

63 22.5 0.0 44.6

88 17.1 0.0 31.4





#35

Dibromofluoromethane

Concen: 99.556 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:113 Resp: 23180

Ion Ratio Lower Upper

113 100

111 103.7 82.4 123.6

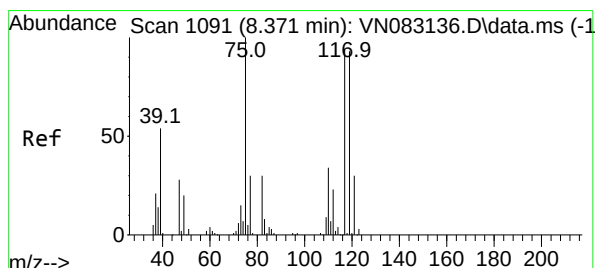
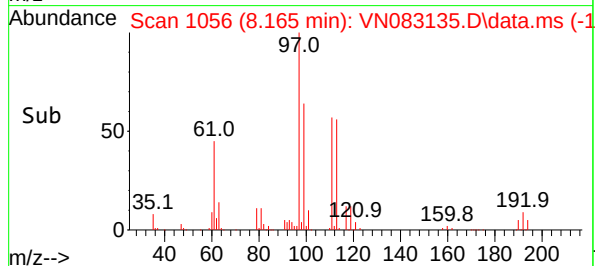
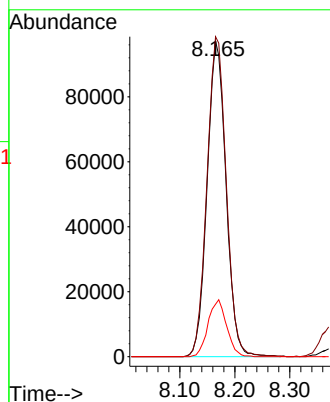
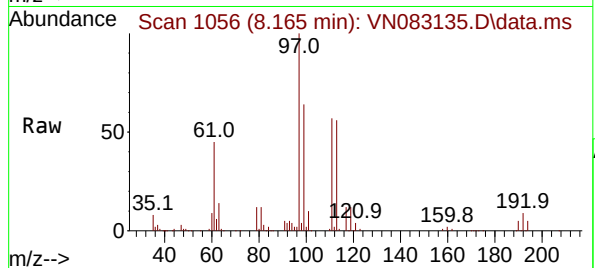
192 17.7 14.9 22.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#36

1,1-Dichloropropene

Concen: 96.808 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

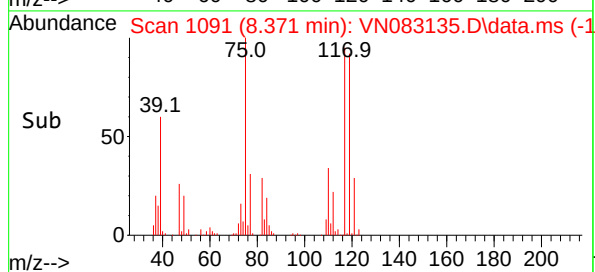
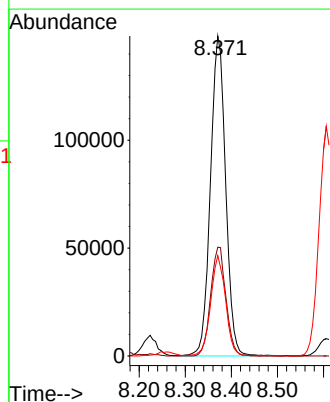
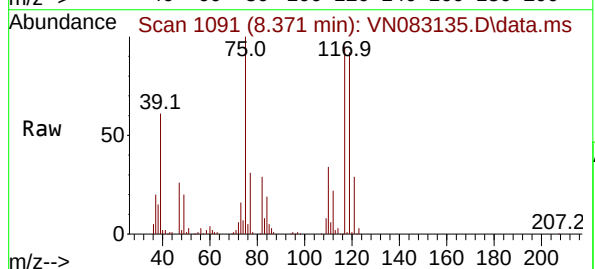
Tgt Ion: 75 Resp: 340980

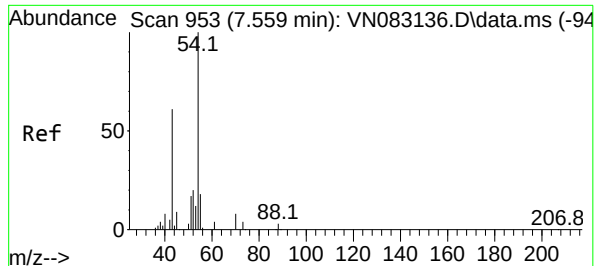
Ion Ratio Lower Upper

75 100

110 34.1 16.3 48.9

77 30.6 24.6 37.0





#37

Ethyl Acetate

Concen: 90.602 ug/l

RT: 7.559 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 357308

Ion Ratio Lower Upper

43 100

61 14.4 9.3 13.9

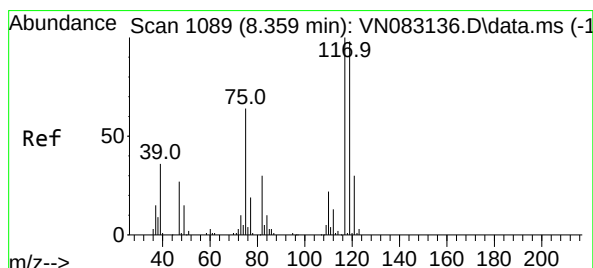
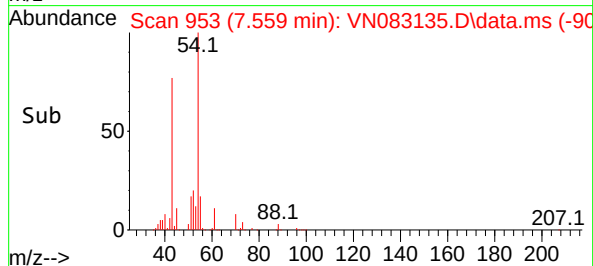
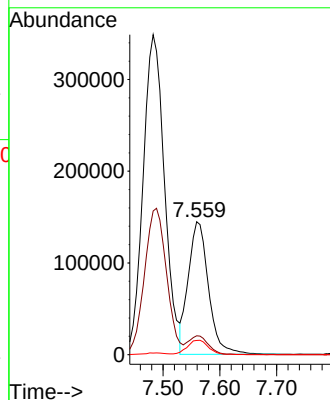
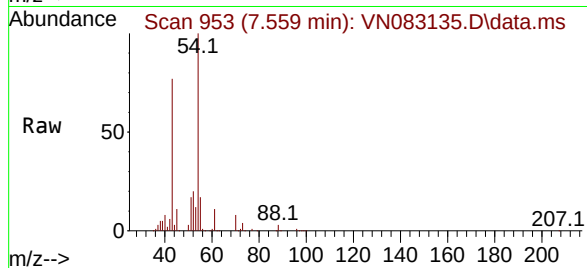
70 11.4 7.0 10.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#38

Carbon Tetrachloride

Concen: 98.597 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

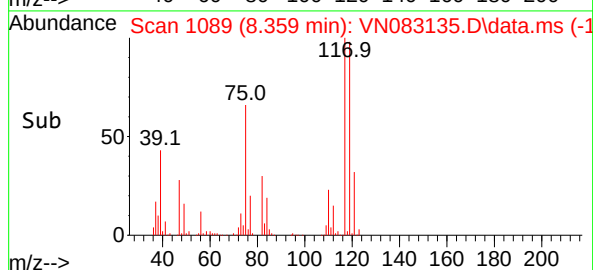
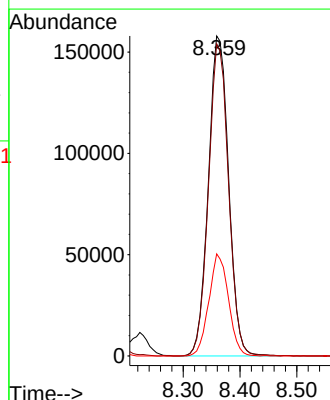
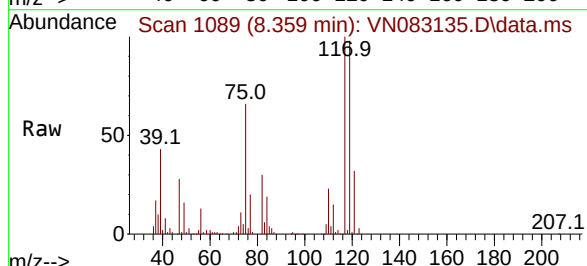
Tgt Ion:117 Resp: 391148

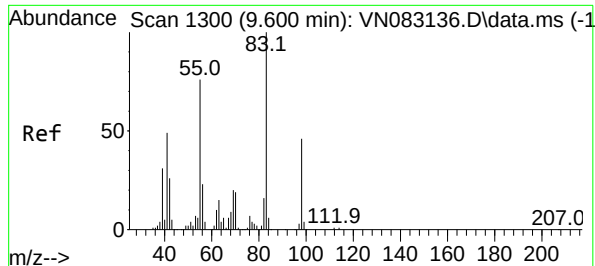
Ion Ratio Lower Upper

117 100

119 97.5 74.9 112.3

121 31.9 24.3 36.5





#39

Methylcyclohexane

Concen: 97.486 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

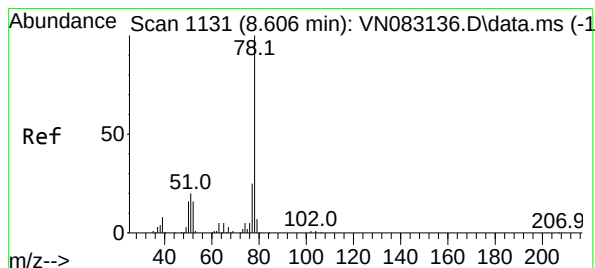
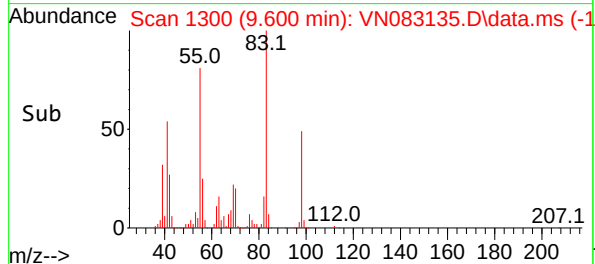
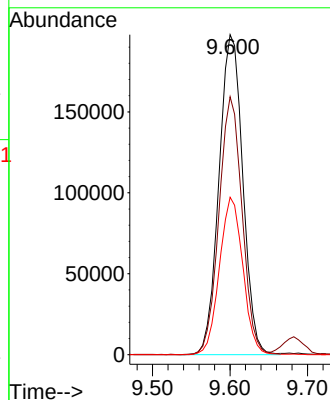
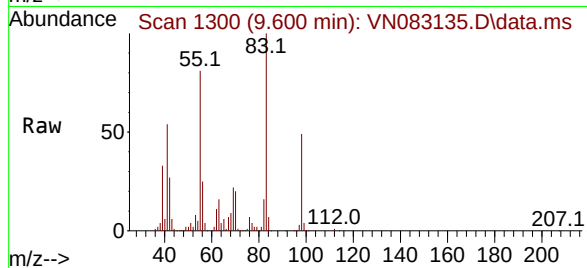
Tgt Ion:	83	Resp:	42174
Ion	Ratio	Lower	Upper
83	100		
55	80.6	66.4	99.6
98	49.2	40.7	61.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#40

Benzene

Concen: 98.550 ug/l

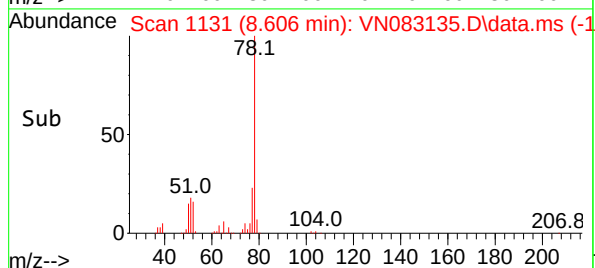
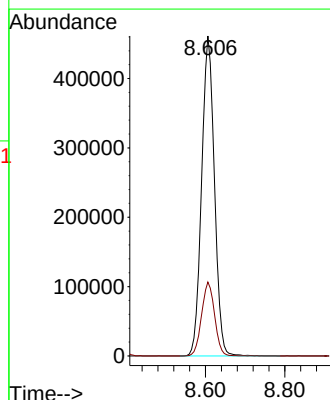
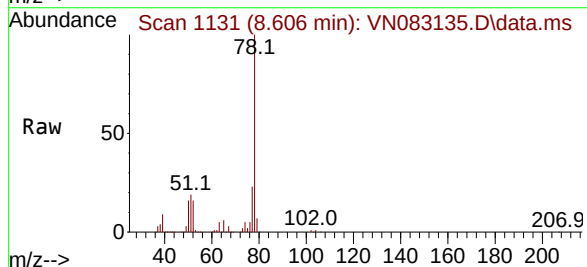
RT: 8.606 min Scan# 1131

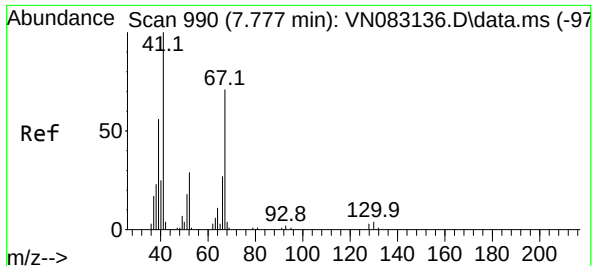
Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

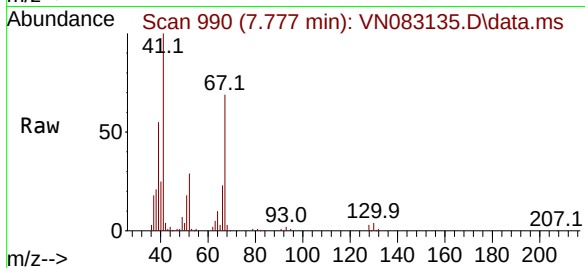
Tgt Ion:	78	Resp:	1034059
Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.0	28.4





#41
Methacrylonitrile
Concen: 91.799 ug/l
RT: 7.777 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

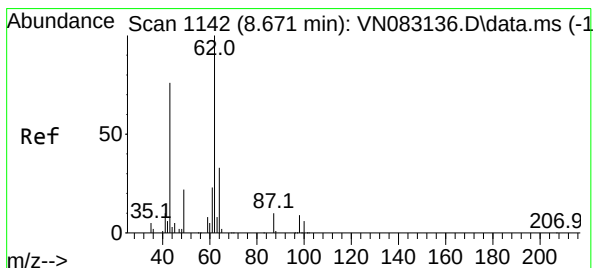
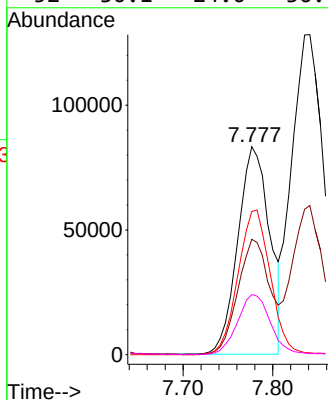
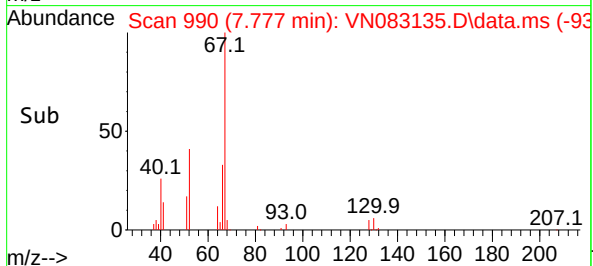
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 41 Resp: 205844
Ion Ratio Lower Upper
41 100
39 55.7 45.5 68.3
67 70.9 50.5 75.7
52 30.1 24.0 36.0

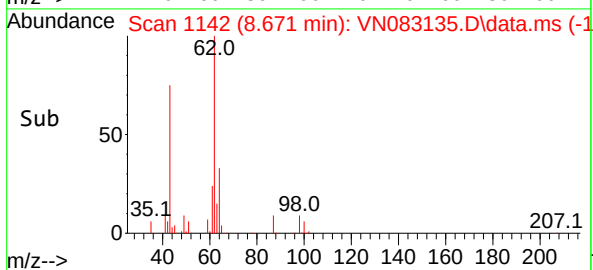
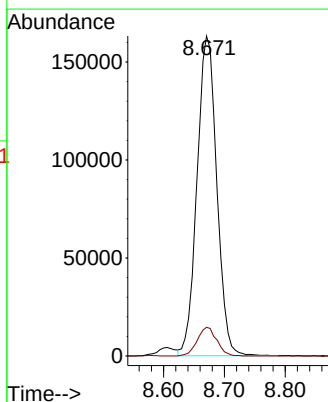
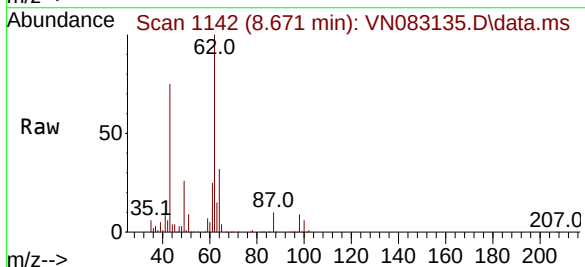
Manual Integrations
APPROVED

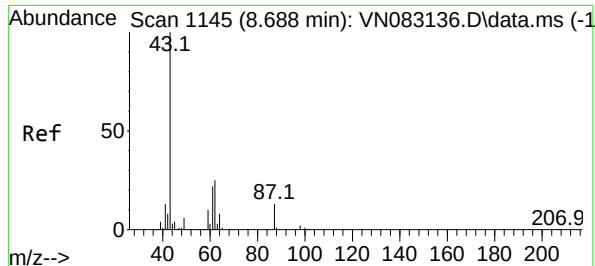
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#42
1,2-Dichloroethane
Concen: 96.385 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 62 Resp: 368412
Ion Ratio Lower Upper
62 100
98 8.8 0.0 15.8





#43

Isopropyl Acetate

Concen: 99.962 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 64858

Ion Ratio Lower Upper

43

100

61

25.2 17.8 26.6

87

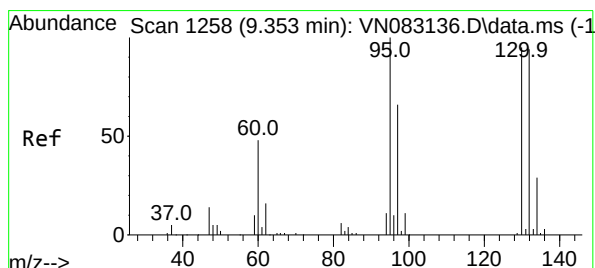
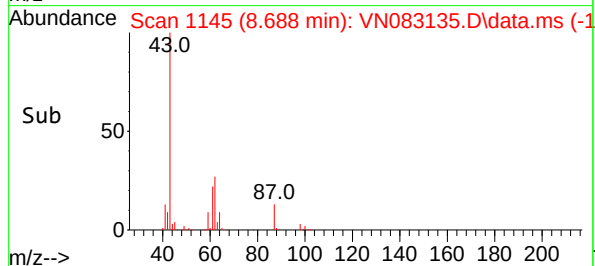
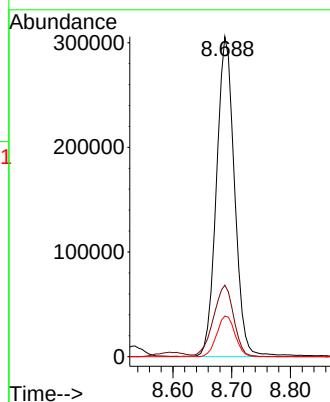
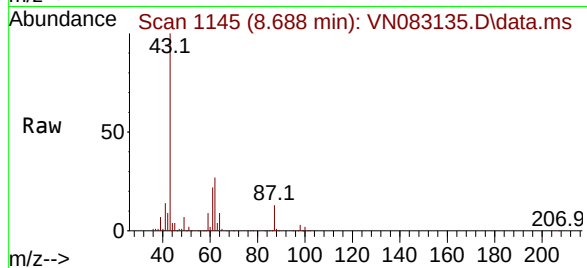
13.0 8.2 12.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#44

Trichloroethene

Concen: 98.774 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Tgt Ion:130 Resp: 246689

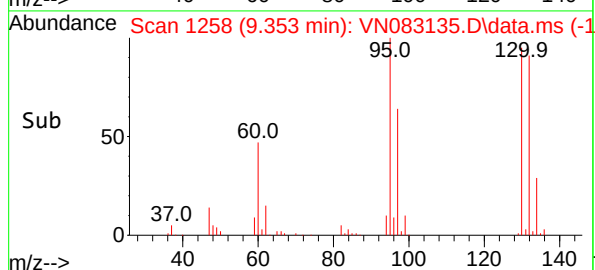
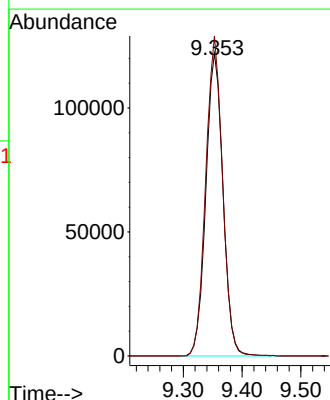
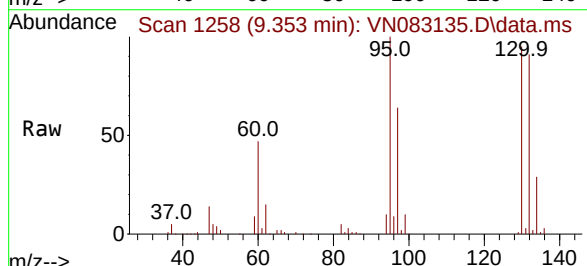
Ion Ratio Lower Upper

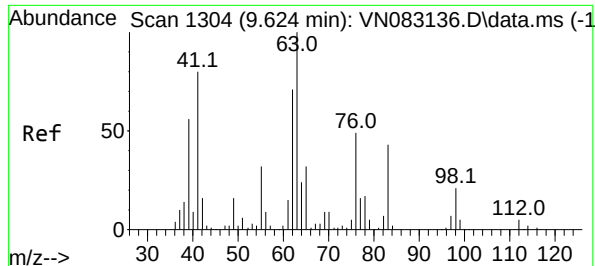
130

100

95

105.7 0.0 197.8





#45

1,2-Dichloropropane

Concen: 99.275 ug/l

RT: 9.624 min Scan# 1304

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 63 Resp: 247262

Ion Ratio Lower Upper

63 100

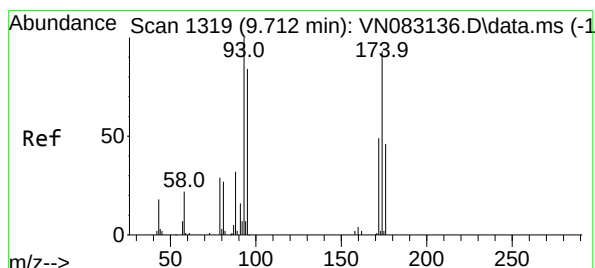
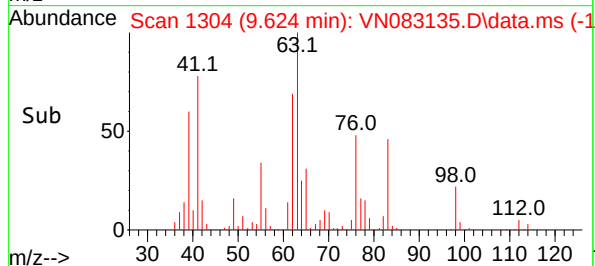
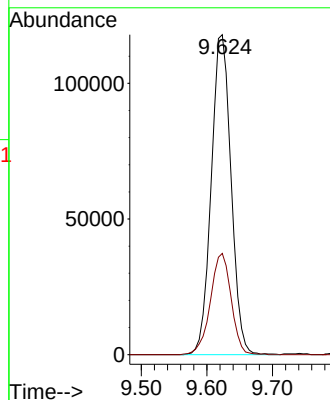
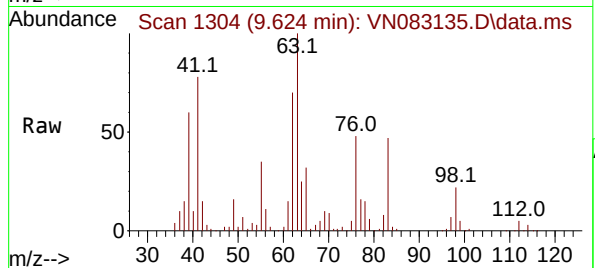
65 31.6 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#46

Dibromomethane

Concen: 99.449 ug/l

RT: 9.712 min Scan# 1319

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

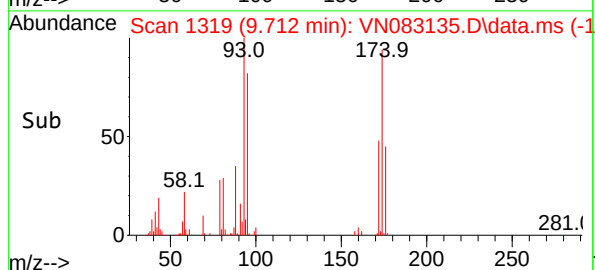
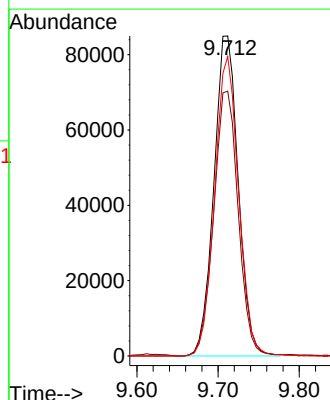
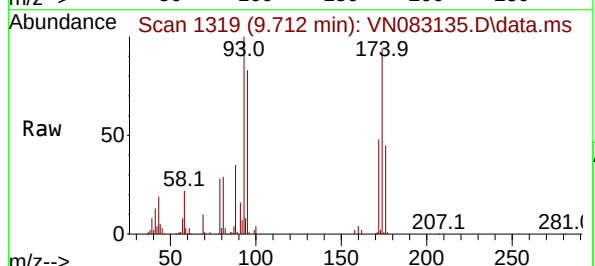
Tgt Ion: 93 Resp: 177294

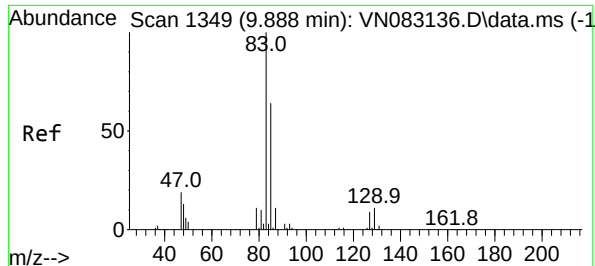
Ion Ratio Lower Upper

93 100

95 83.4 65.8 98.6

174 92.1 71.7 107.5





#47

Bromodichloromethane

Concen: 97.184 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 83 Resp: 389020

Ion Ratio Lower Upper

83 100

85 63.9 51.1 76.7

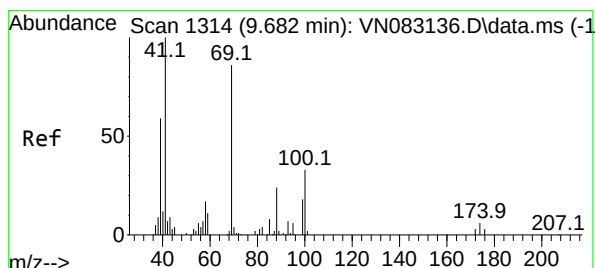
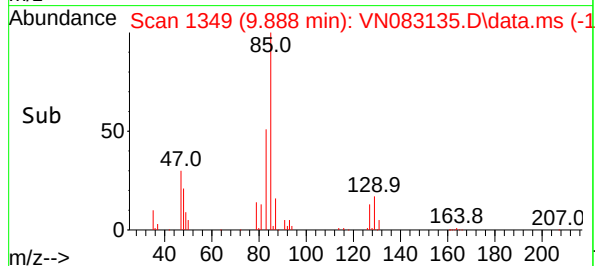
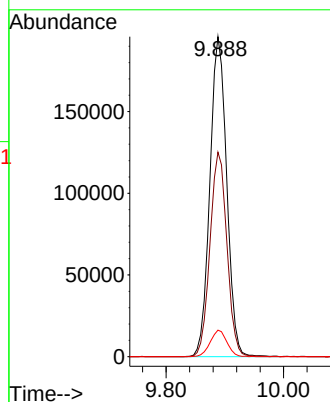
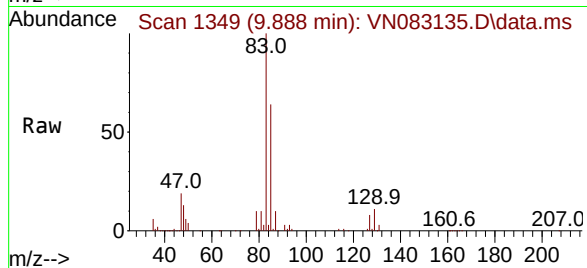
127 8.3 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#48

Methyl methacrylate

Concen: 94.886 ug/l

RT: 9.682 min Scan# 1314

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

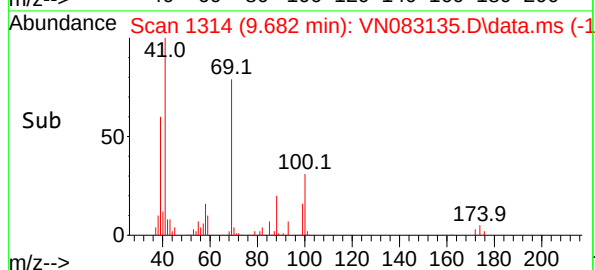
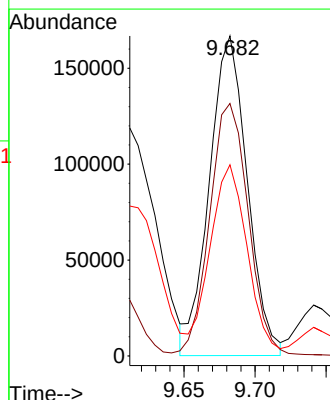
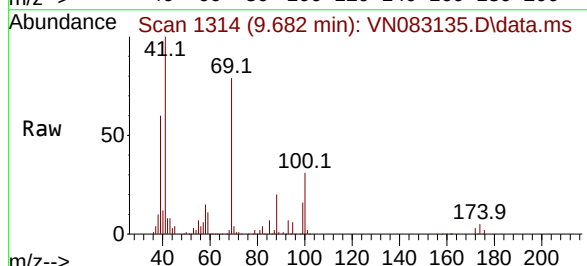
Tgt Ion: 41 Resp: 309367

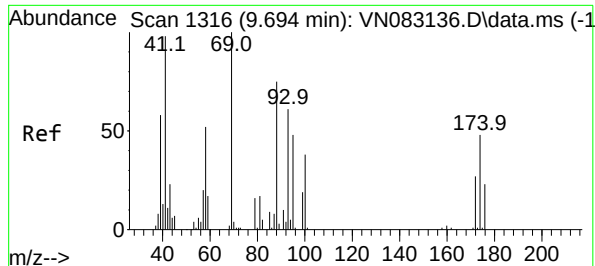
Ion Ratio Lower Upper

41 100

69 81.0 56.3 84.5

39 58.7 50.3 75.5





#49

1,4-Dioxane

Concen: 1994.879 ug/l

RT: 9.694 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 88 Resp: 11734

Ion Ratio Lower Upper

88 100

43 28.2 27.8 41.8

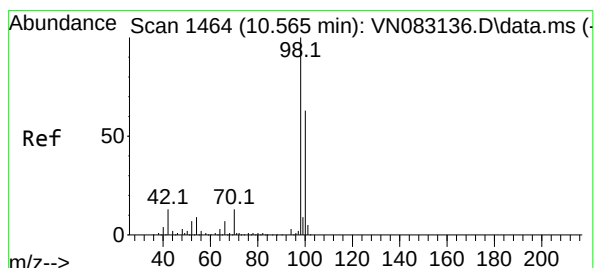
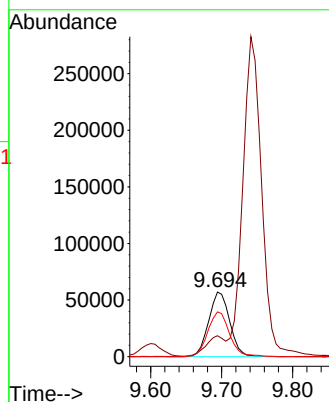
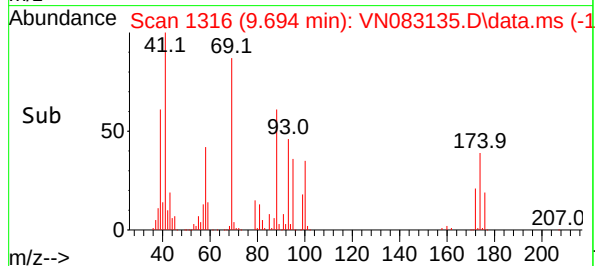
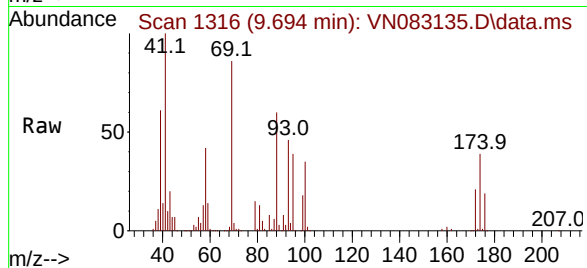
58 71.8 59.4 89.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#50

Toluene-d8

Concen: 103.163 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN083135.D

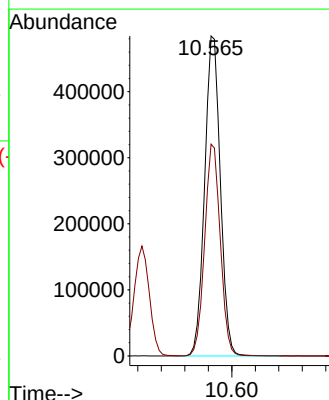
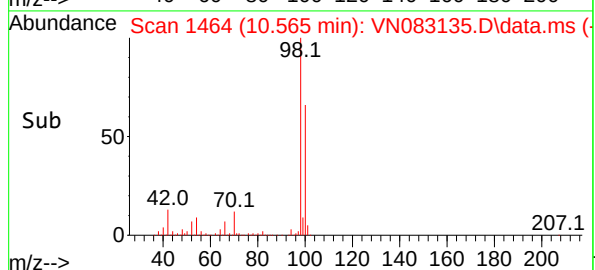
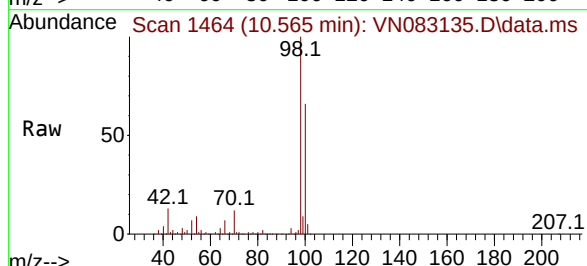
Acq: 07 Aug 2024 10:33

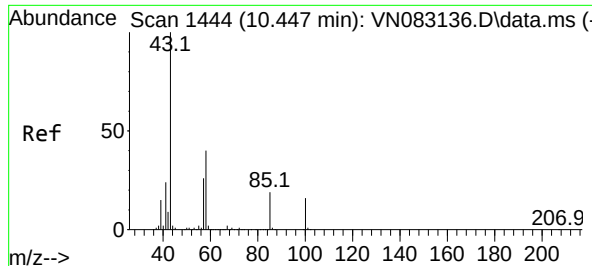
Tgt Ion: 98 Resp: 896022

Ion Ratio Lower Upper

98 100

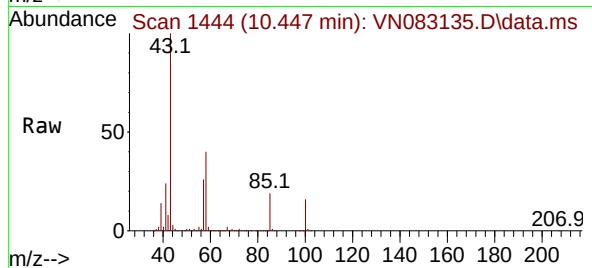
100 65.8 51.5 77.3





#51
4-Methyl-2-Pentanone
Concen: 495.091 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

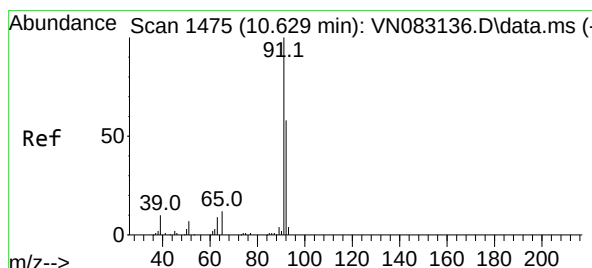
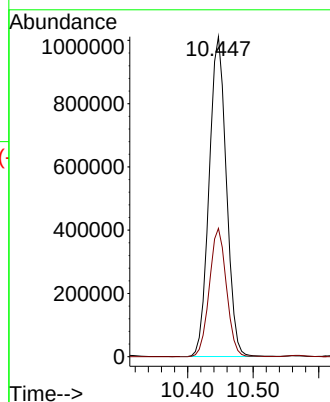
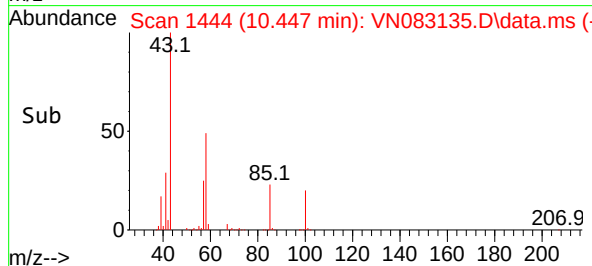
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 43 Resp: 1846340
Ion Ratio Lower Upper
43 100
58 39.7 28.2 42.4

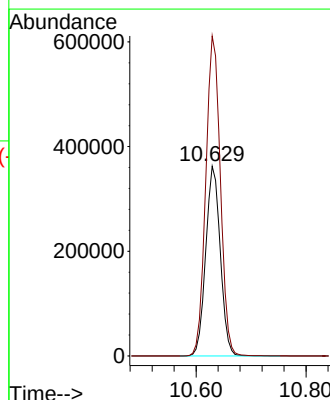
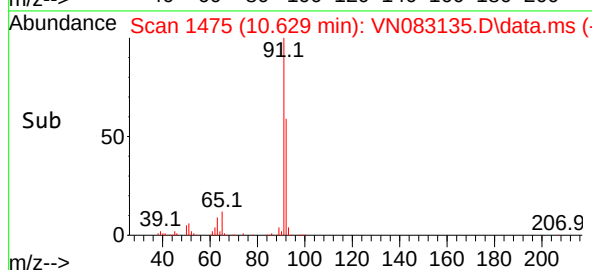
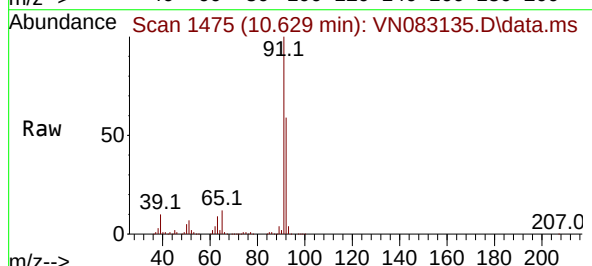
Manual Integrations
APPROVED

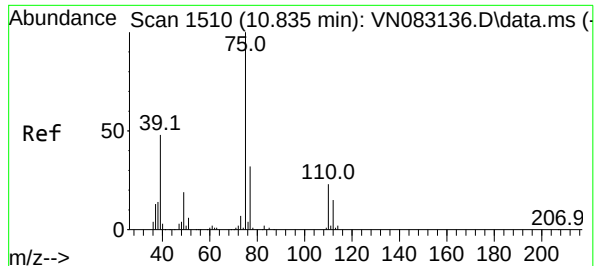
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#52
Toluene
Concen: 100.347 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

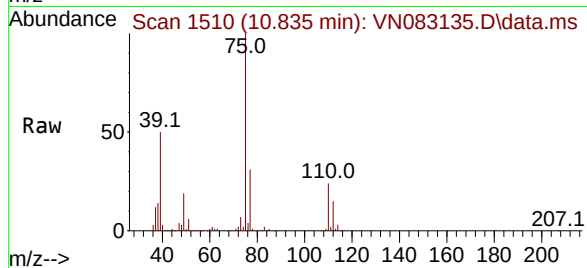
Tgt Ion: 92 Resp: 665274
Ion Ratio Lower Upper
92 100
91 169.4 139.4 209.0





#53
t-1,3-Dichloropropene
Concen: 103.317 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

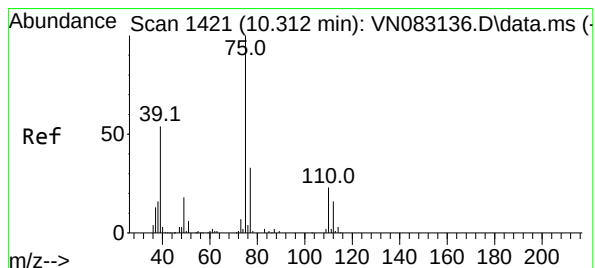
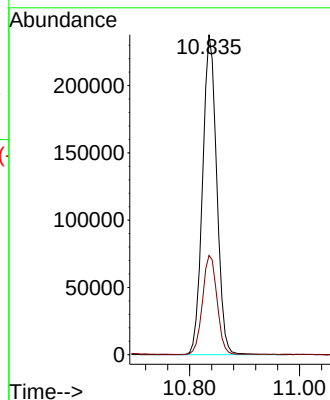
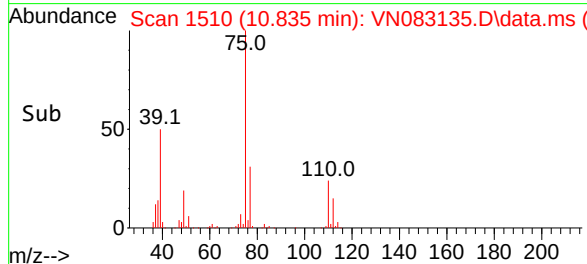
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 75 Resp: 424829
Ion Ratio Lower Upper
75 100
77 30.9 25.7 38.5

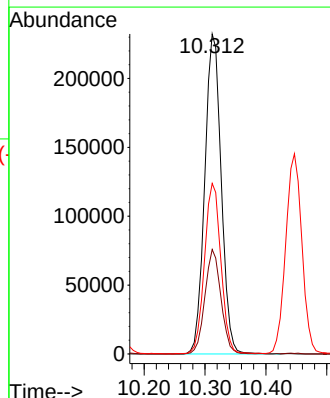
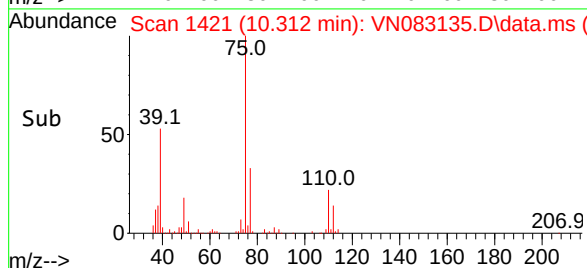
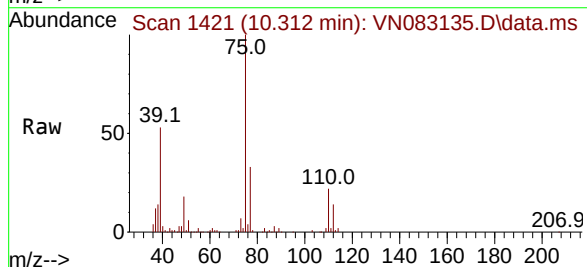
Manual Integrations
APPROVED

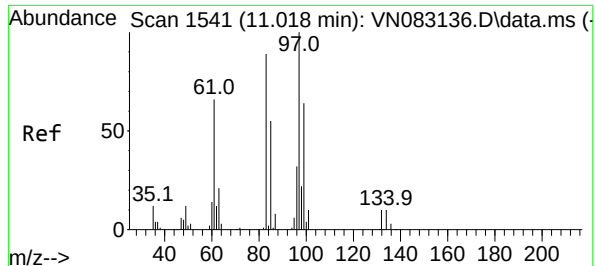
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#54
cis-1,3-Dichloropropene
Concen: 99.903 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

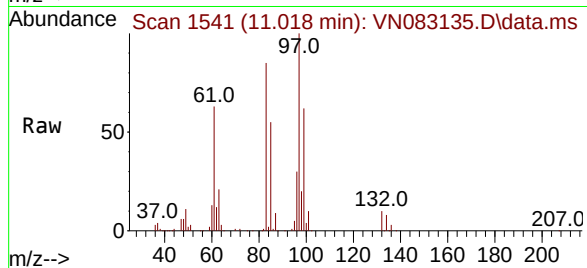
Tgt Ion: 75 Resp: 436928
Ion Ratio Lower Upper
75 100
77 32.7 24.3 36.5
39 53.2 50.5 75.7





#55
1,1,2-Trichloroethane
Concen: 101.114 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

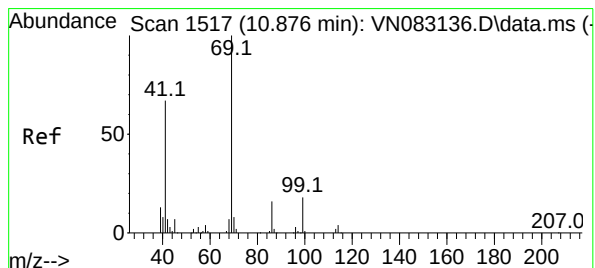
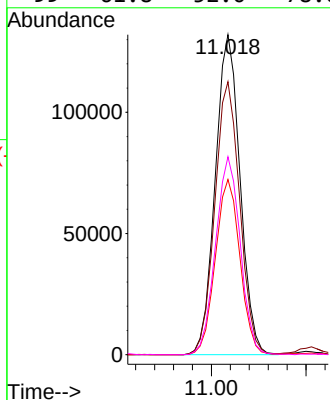
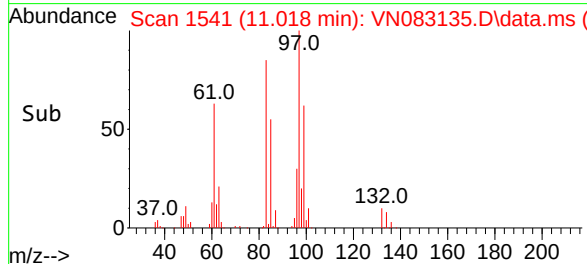
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



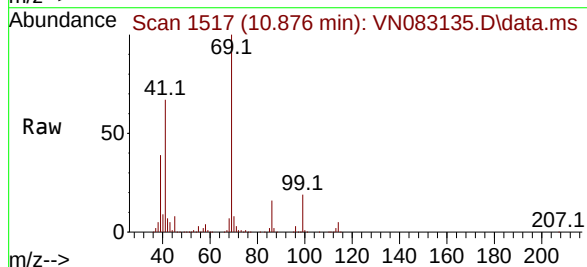
Tgt Ion: 97 Resp: 24023
Ion Ratio Lower Upper
97 100
83 85.3 71.4 107.0
85 54.8 45.8 68.6
99 61.8 52.0 78.0

Manual Integrations
APPROVED

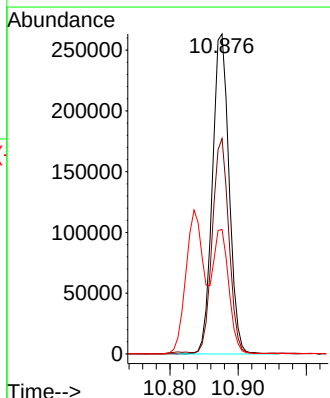
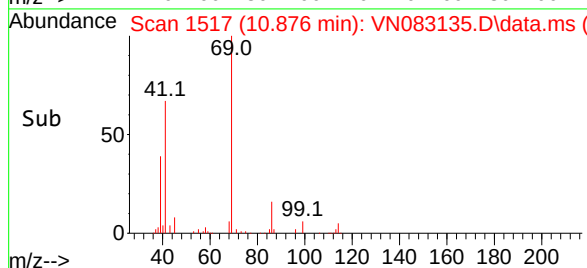
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

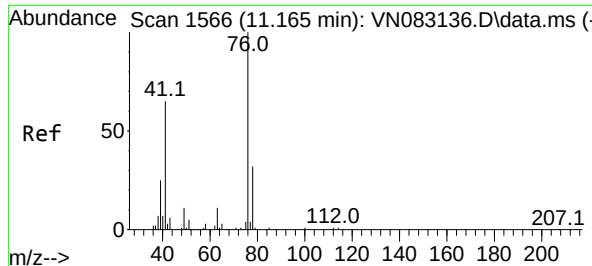


#56
Ethyl methacrylate
Concen: 100.164 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33



Tgt Ion: 69 Resp: 448632
Ion Ratio Lower Upper
69 100
41 66.4 63.4 95.2
39 34.5 37.4 56.0#





#57

1,3-Dichloropropane

Concen: 98.824 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 76 Resp: 41850

Ion Ratio Lower Upper

76 100

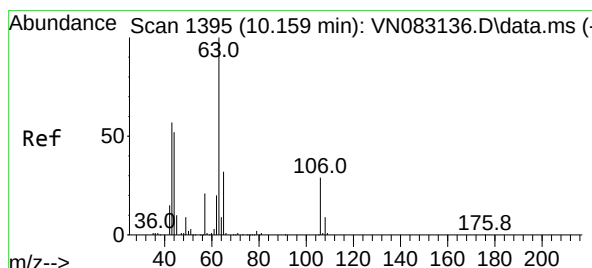
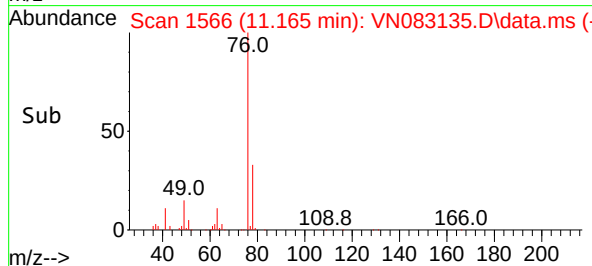
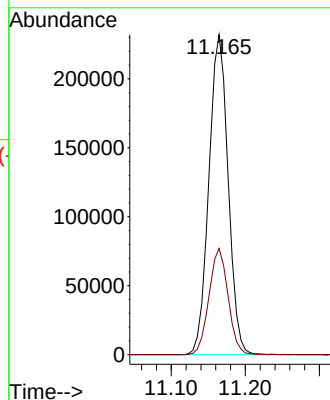
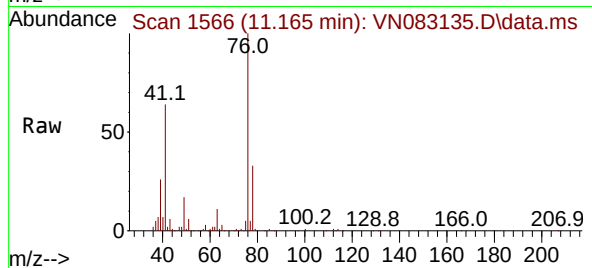
78 32.9 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#58

2-Chloroethyl Vinyl ether

Concen: 519.987 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN083135.D

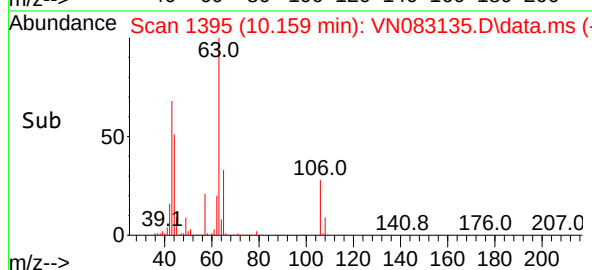
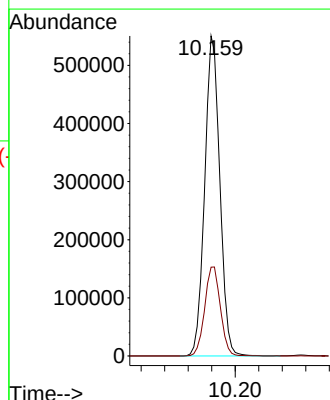
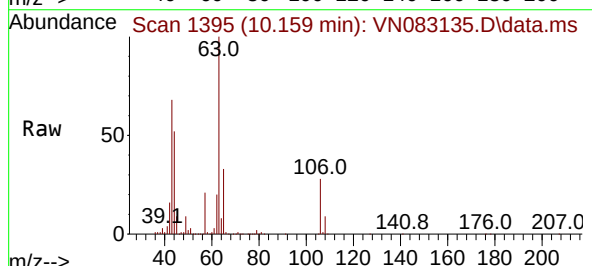
Acq: 07 Aug 2024 10:33

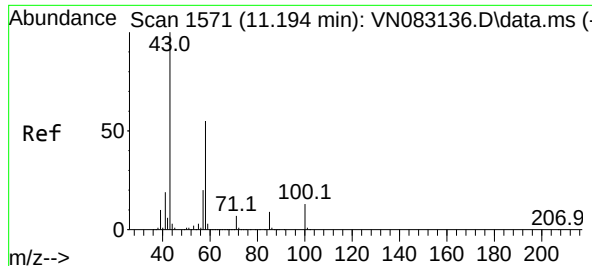
Tgt Ion: 63 Resp: 984478

Ion Ratio Lower Upper

63 100

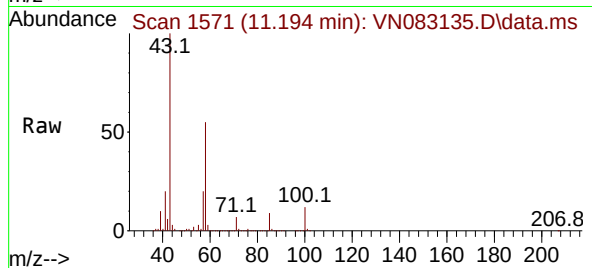
106 28.8 21.4 32.0





#59
2-Hexanone
Concen: 501.642 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

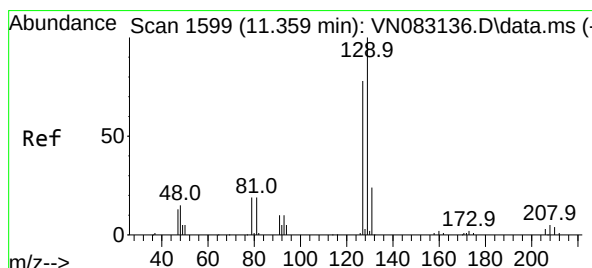
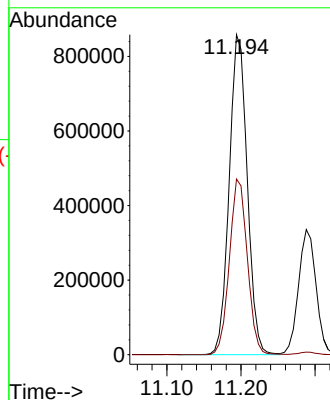
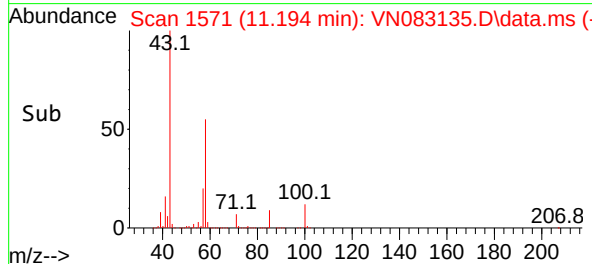
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 43 Resp: 144730
Ion Ratio Lower Upper
43 100
58 54.7 24.6 73.8

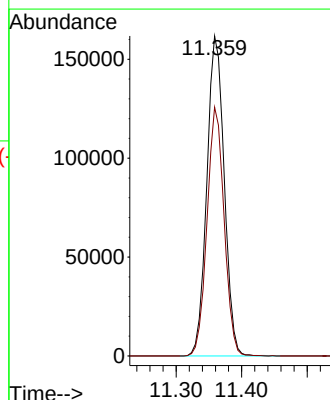
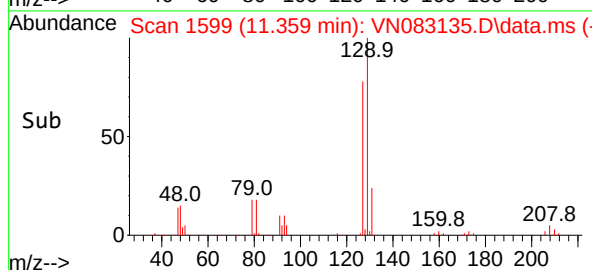
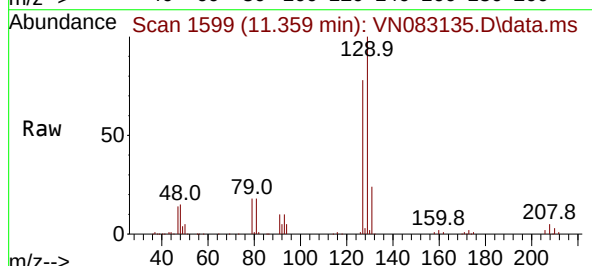
Manual Integrations
APPROVED

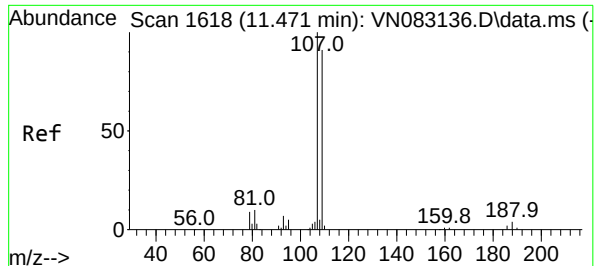
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#60
Dibromochloromethane
Concen: 103.914 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

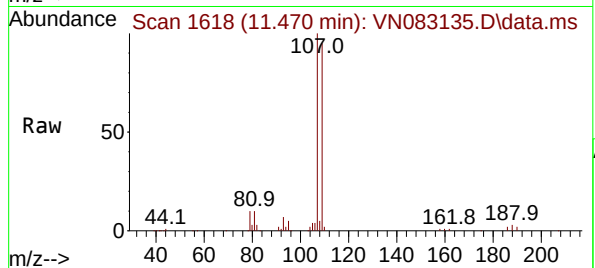
Tgt Ion:129 Resp: 298498
Ion Ratio Lower Upper
129 100
127 76.3 39.2 117.6





#61
1,2-Dibromoethane
Concen: 99.794 ug/l
RT: 11.470 min Scan# 1618
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

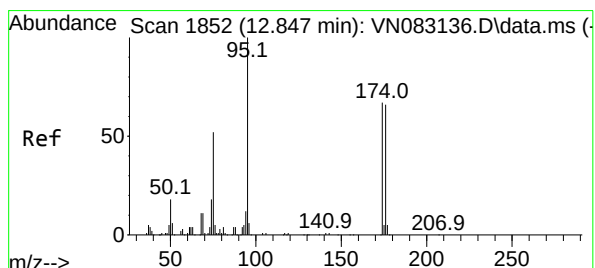
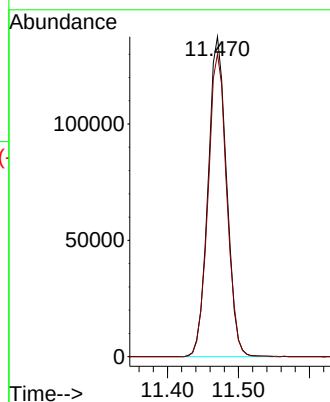
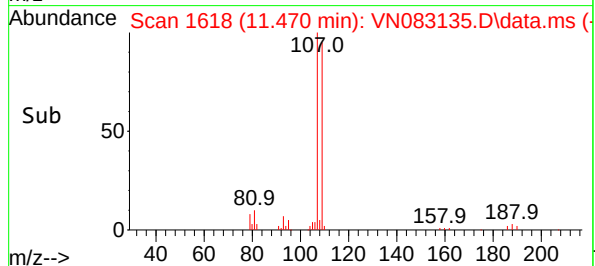
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100



Tgt Ion:107 Resp: 249072
Ion Ratio Lower Upper
107 100
109 95.5 73.7 110.5

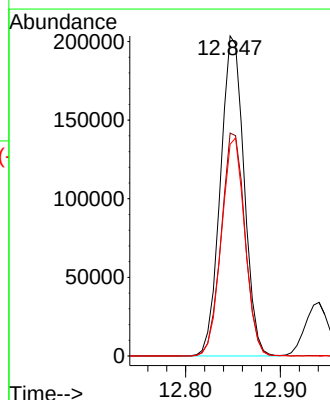
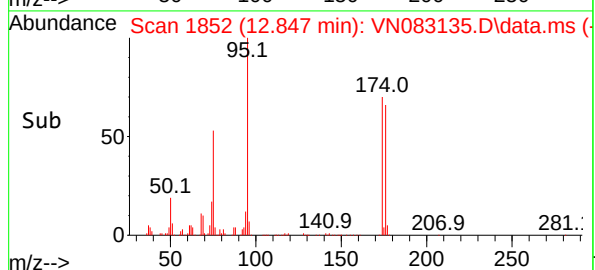
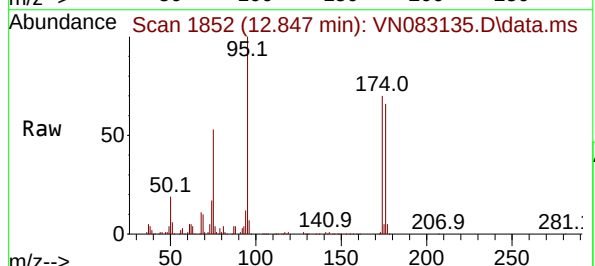
Manual Integrations
APPROVED

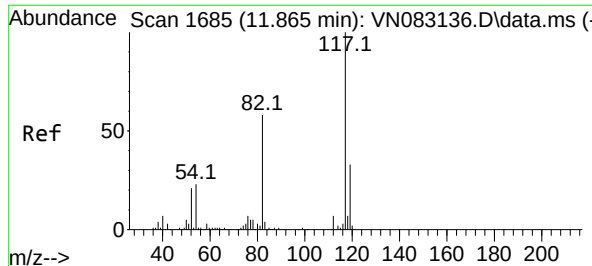
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#62
4-Bromofluorobenzene
Concen: 104.234 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

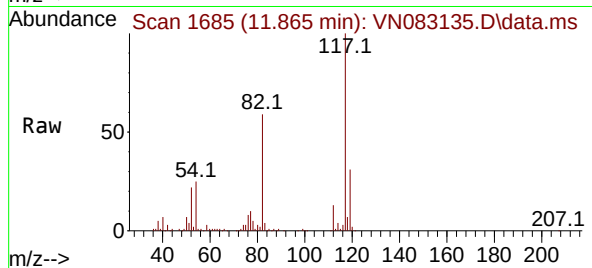
Tgt Ion: 95 Resp: 352947
Ion Ratio Lower Upper
95 100
174 69.9 0.0 159.2
176 67.6 0.0 147.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

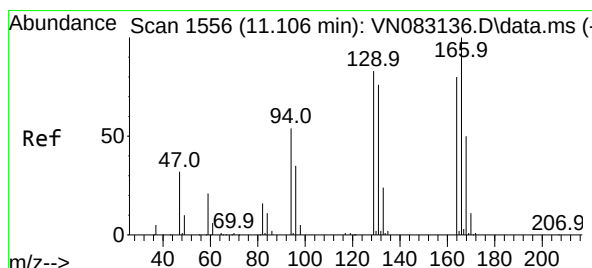
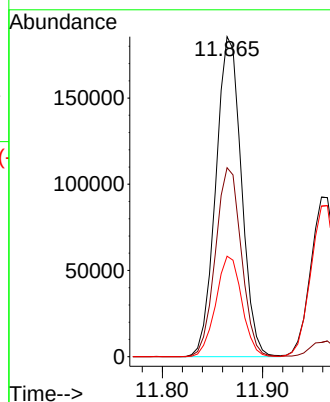
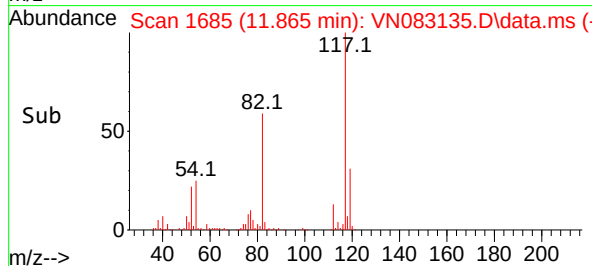
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100



Tgt Ion:117 Resp: 329850
Ion Ratio Lower Upper
117 100
82 59.0 47.5 71.3
119 31.4 25.6 38.4

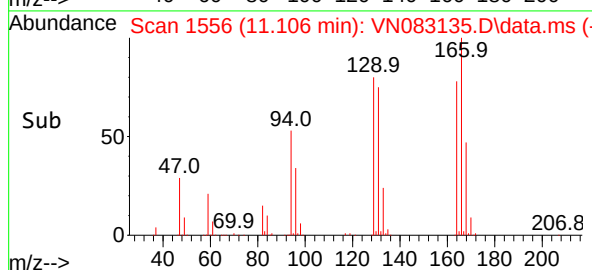
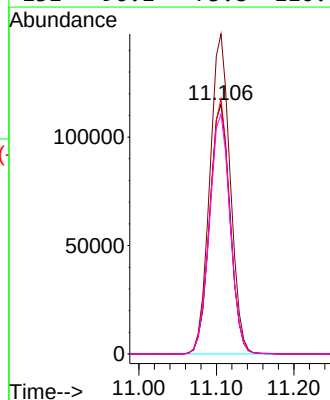
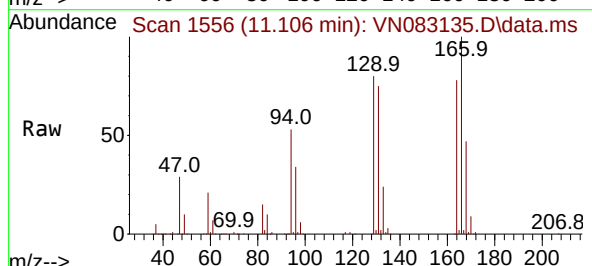
Manual Integrations
APPROVED

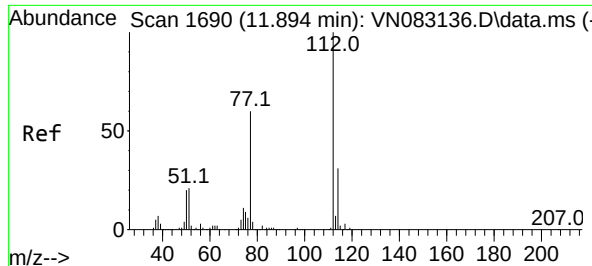
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#64
Tetrachloroethene
Concen: 96.284 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

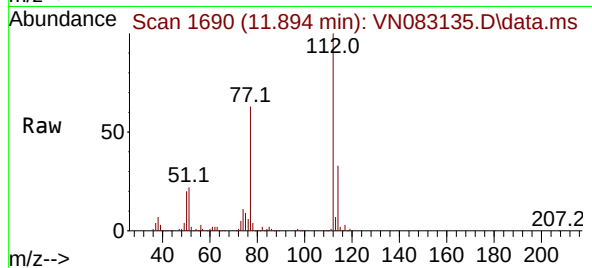
Tgt Ion:164 Resp: 210334
Ion Ratio Lower Upper
164 100
166 128.2 101.4 152.0
129 102.1 75.7 113.5
131 96.1 73.8 110.6





#65
Chlorobenzene
Concen: 96.805 ug/l
RT: 11.894 min Scan# 1690
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

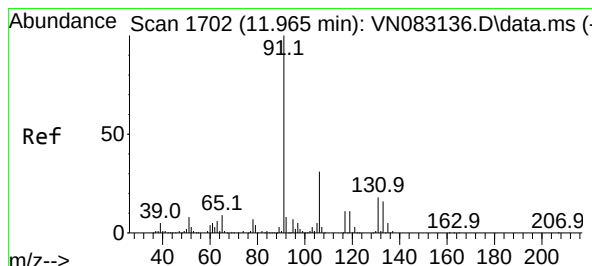
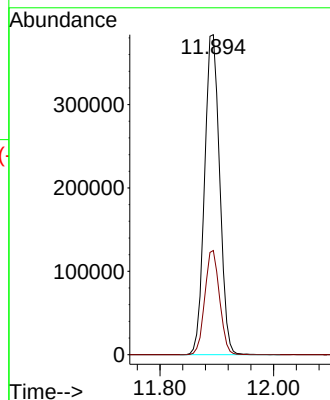
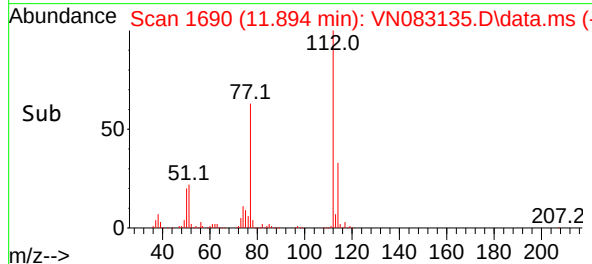
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



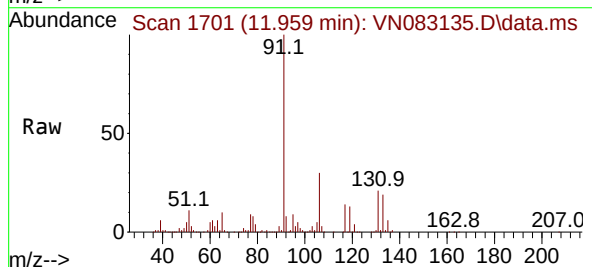
Tgt Ion:112 Resp: 705639
Ion Ratio Lower Upper
112 100
114 32.5 26.2 39.2

Manual Integrations
APPROVED

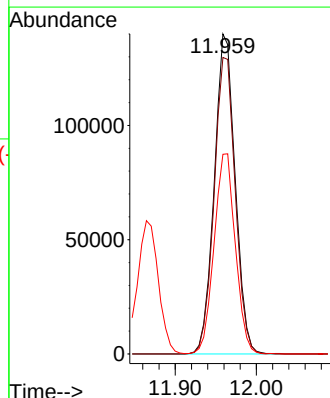
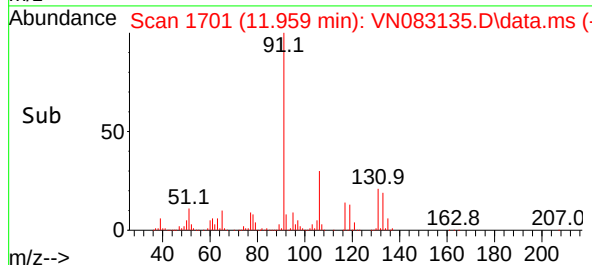
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

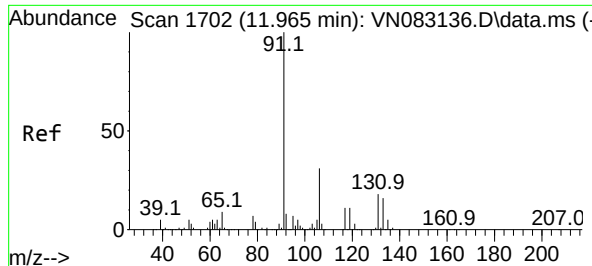


#66
1,1,1,2-Tetrachloroethane
Concen: 97.546 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33



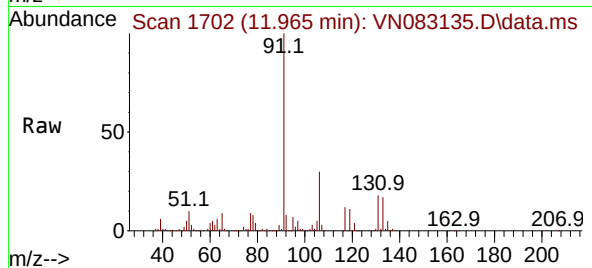
Tgt Ion:131 Resp: 250772
Ion Ratio Lower Upper
131 100
133 93.9 47.3 142.0
119 63.6 32.5 97.4





#67
Ethyl Benzene
Concen: 97.041 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

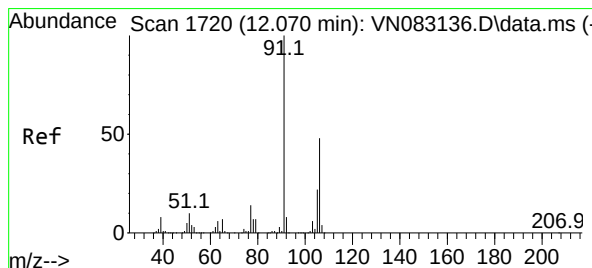
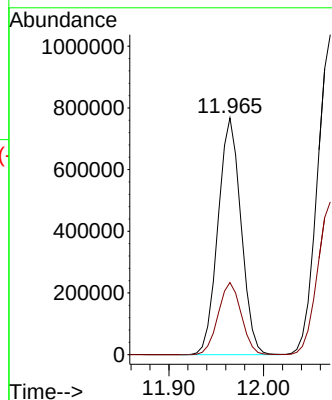
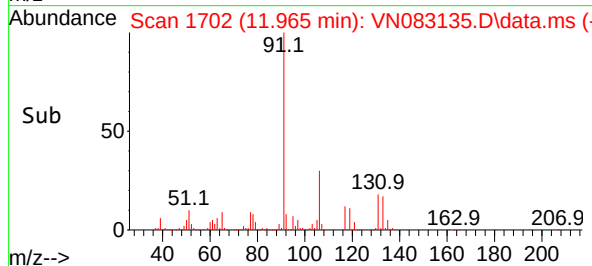
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 91 Resp: 1297632
Ion Ratio Lower Upper
91 100
106 30.5 24.0 36.0

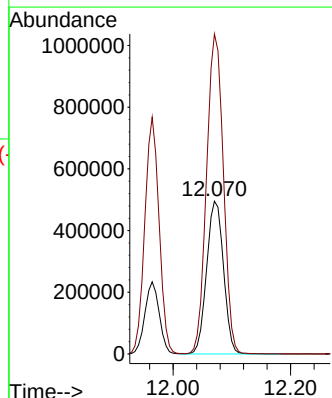
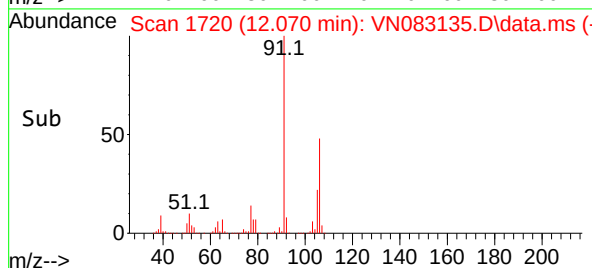
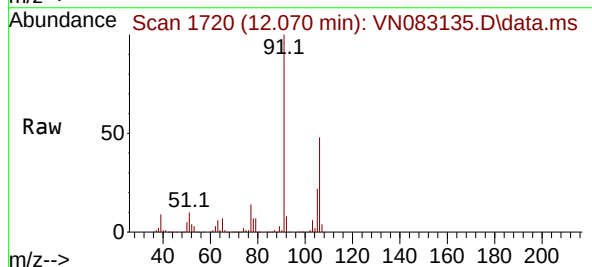
Manual Integrations
APPROVED

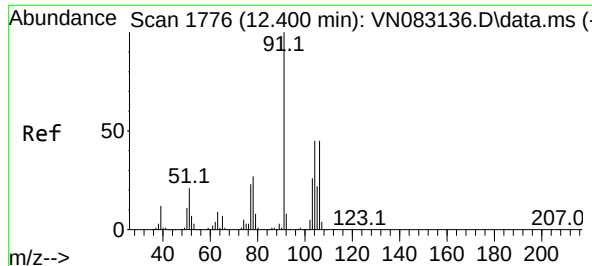
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#68
m/p-Xylenes
Concen: 196.641 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:106 Resp: 984984
Ion Ratio Lower Upper
106 100
91 208.8 166.1 249.1





#69

o-Xylene

Concen: 98.107 ug/l

RT: 12.400 min Scan# 1776

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:106 Resp: 48467

Ion Ratio Lower Upper

106 100

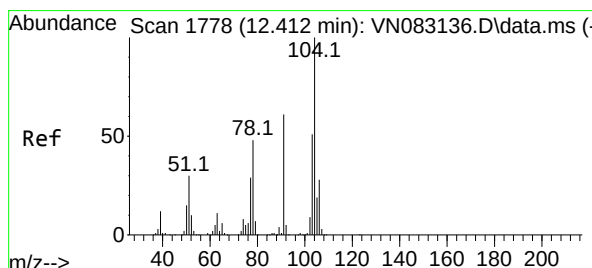
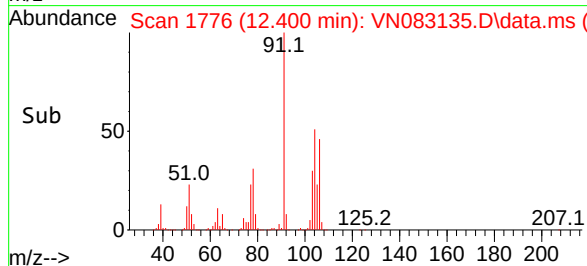
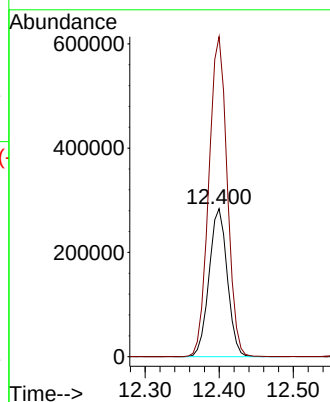
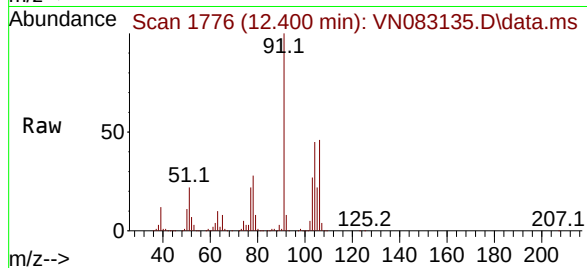
91 218.1 111.3 333.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#70

Styrene

Concen: 100.261 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

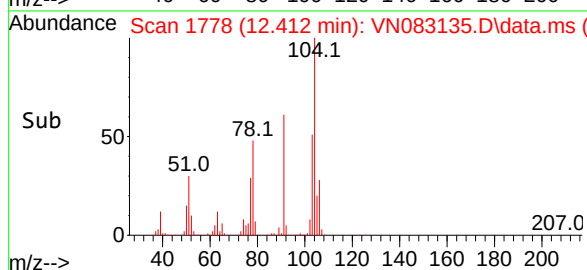
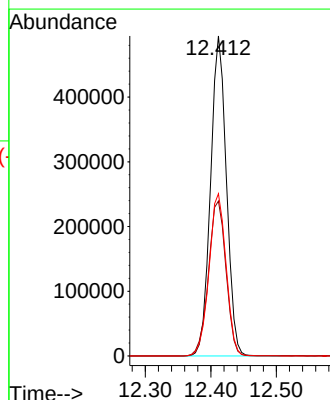
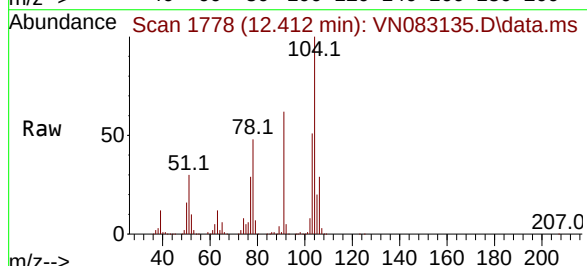
Tgt Ion:104 Resp: 831903

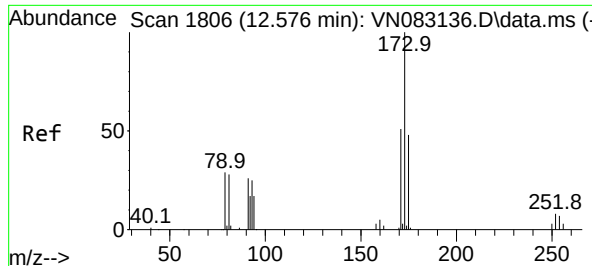
Ion Ratio Lower Upper

104 100

78 53.5 41.6 62.4

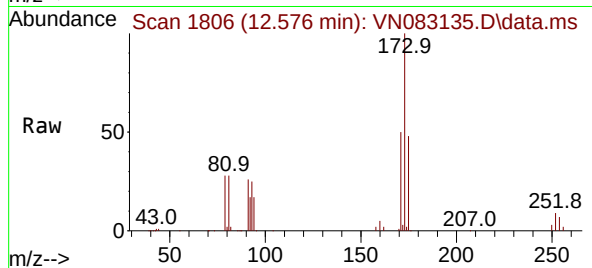
103 54.4 44.0 66.0





#71
Bromoform
Concen: 104.942 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

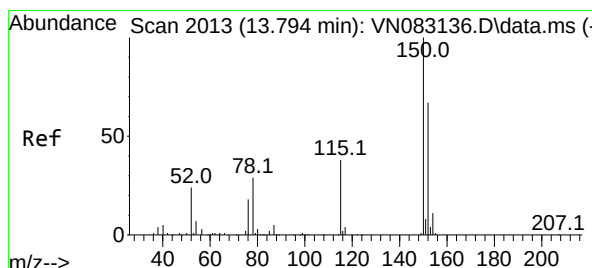
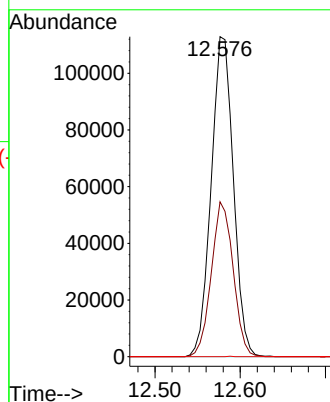
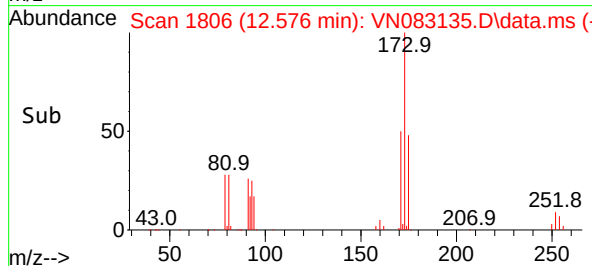
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100



Tgt Ion:173 Resp: 204380
Ion Ratio Lower Upper
173 100
175 47.6 24.0 72.0
254 0.0 0.0 0.0

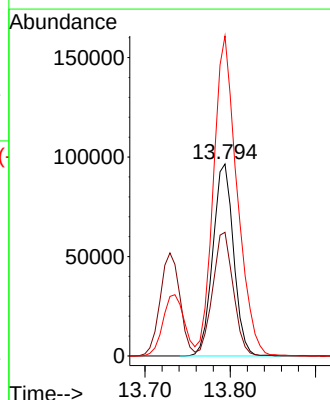
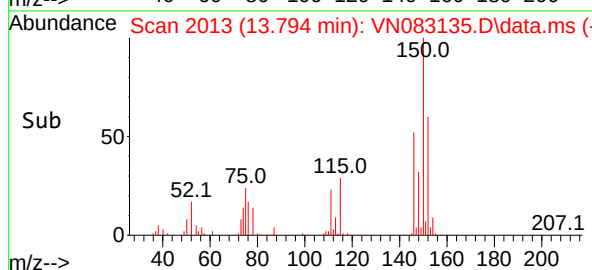
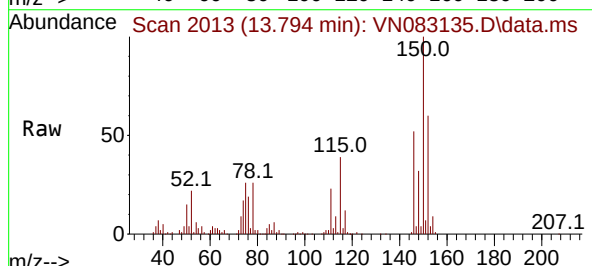
Manual Integrations
APPROVED

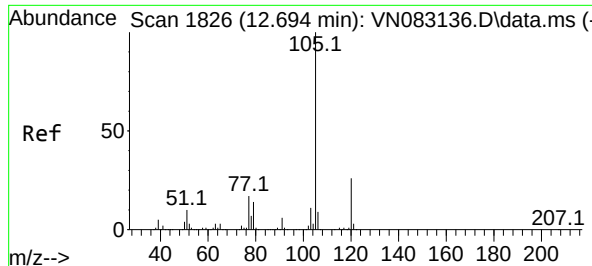
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

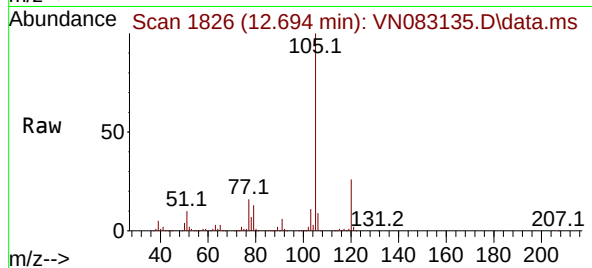
Tgt Ion:152 Resp: 162834
Ion Ratio Lower Upper
152 100
115 63.9 30.6 91.6
150 189.9 0.0 348.6





#73
Isopropylbenzene
Concen: 91.399 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

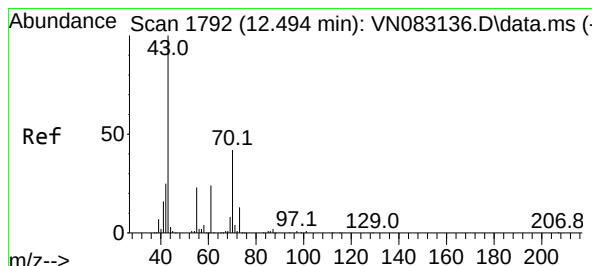
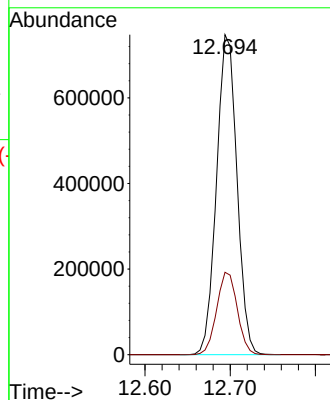
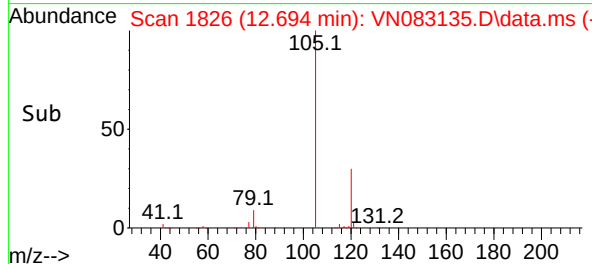
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:105 Resp: 124484
Ion Ratio Lower Upper
105 100
120 25.9 12.9 38.6

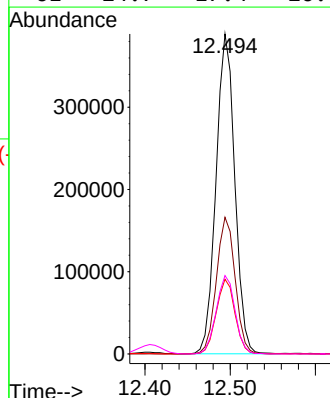
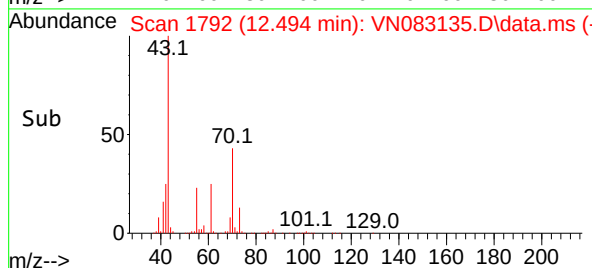
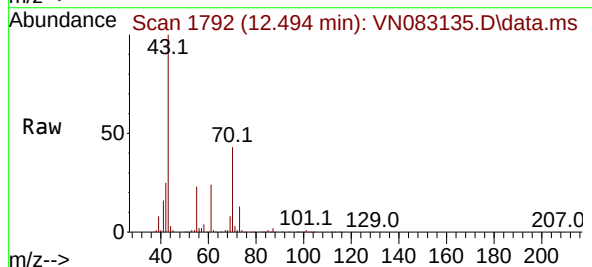
Manual Integrations
APPROVED

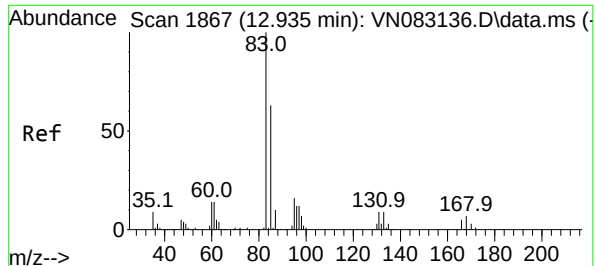
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#74
N-ethyl acetate
Concen: 89.282 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

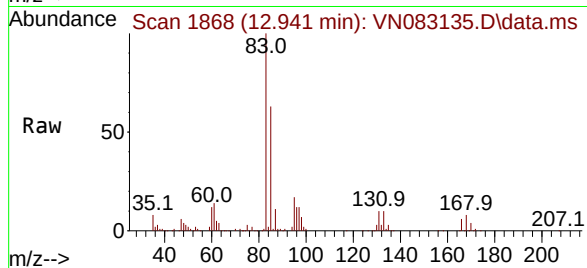
Tgt Ion: 43 Resp: 594797
Ion Ratio Lower Upper
43 100
70 42.7 29.8 44.6
55 23.4 18.7 28.1
61 24.7 17.4 26.0





#75
1,1,2,2-Tetrachloroethane
Concen: 91.727 ug/l
RT: 12.941 min Scan# 1868
Delta R.T. 0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

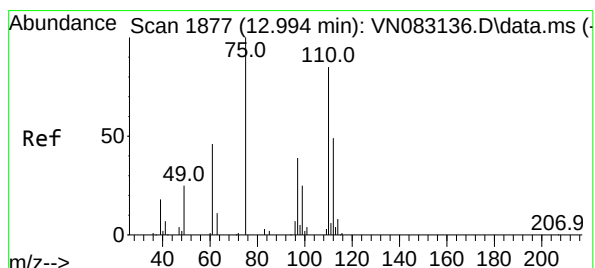
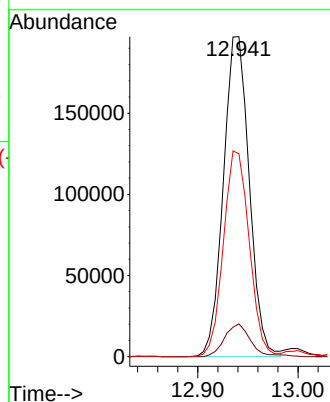
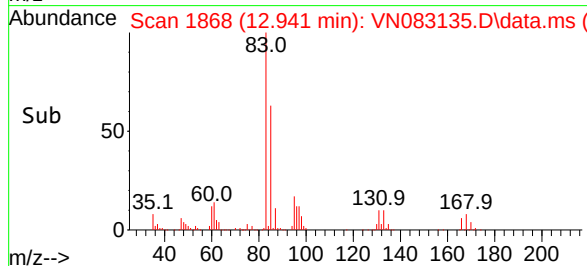
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 83 Resp: 353340
Ion Ratio Lower Upper
83 100
131 10.3 5.0 14.9
85 64.2 31.9 95.7

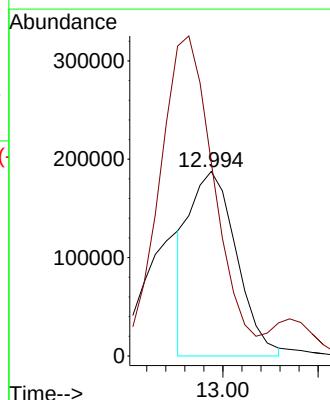
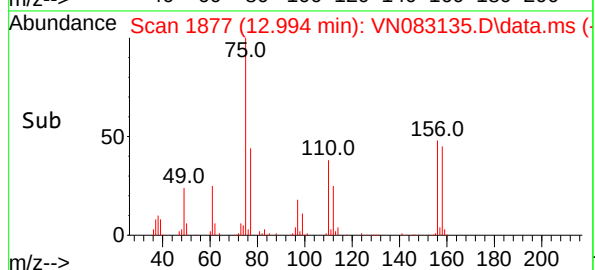
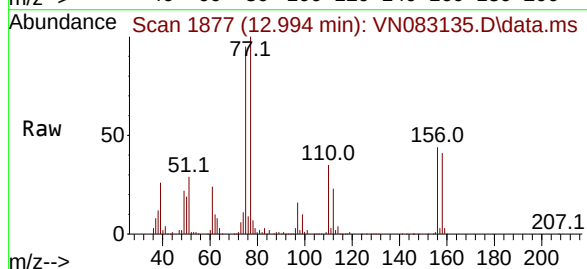
Manual Integrations
APPROVED

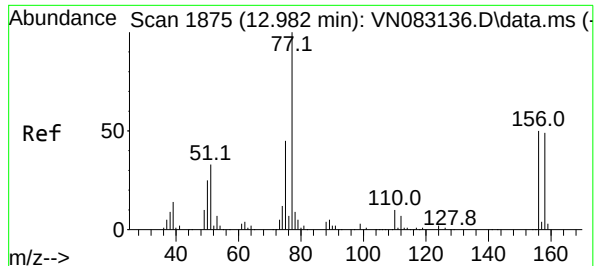
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#76
1,2,3-Trichloropropane
Concen: 89.478 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

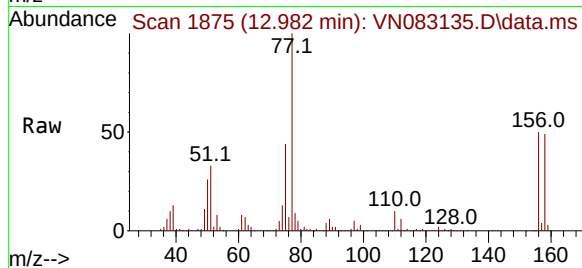
Tgt Ion: 75 Resp: 320302
Ion Ratio Lower Upper
75 100
77 203.7 110.9 332.6





#77
Bromobenzene
Concen: 93.431 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

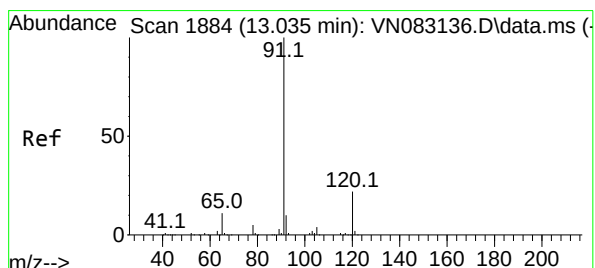
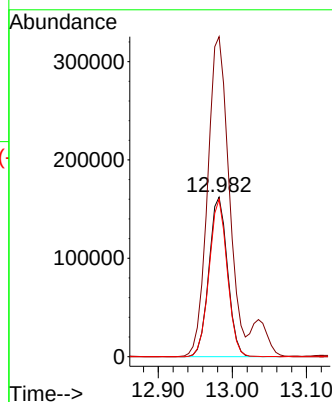
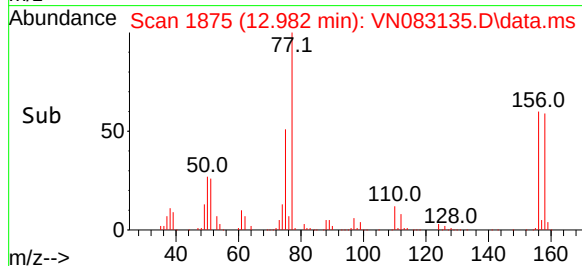
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100



Tgt Ion:156 Resp: 282670
Ion Ratio Lower Upper
156 100
77 230.9 111.3 333.8
158 96.4 48.3 144.9

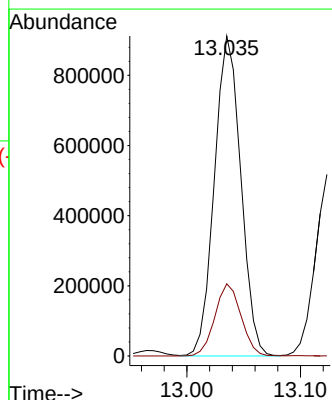
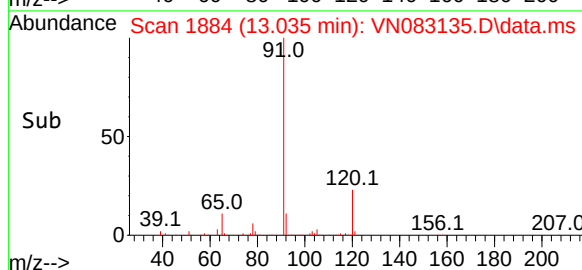
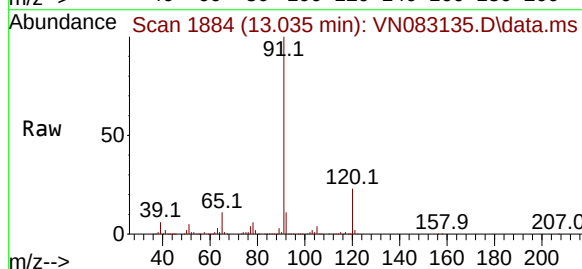
Manual Integrations
APPROVED

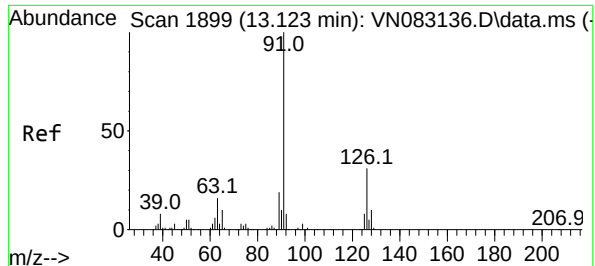
Reviewed By :John Carbone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#78
n-propylbenzene
Concen: 93.979 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 91 Resp: 1473868
Ion Ratio Lower Upper
91 100
120 22.3 10.9 32.9





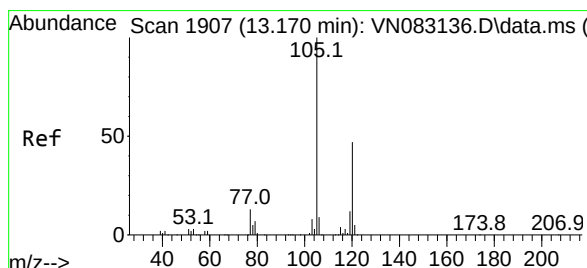
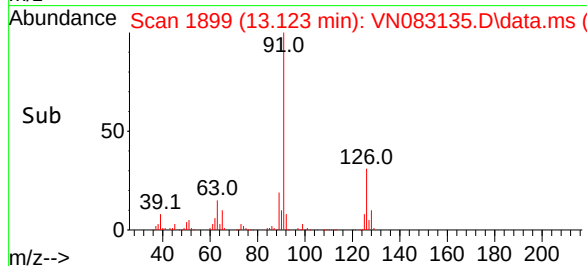
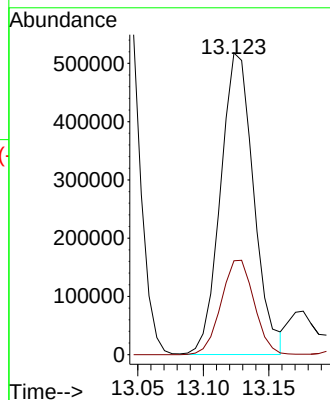
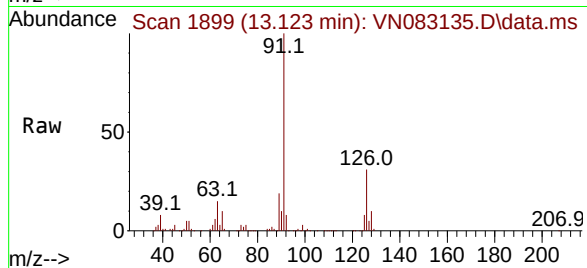
#79
2-Chlorotoluene
Concen: 91.785 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 912618
Ion Ratio Lower Upper
91 100
126 31.1 16.2 48.6

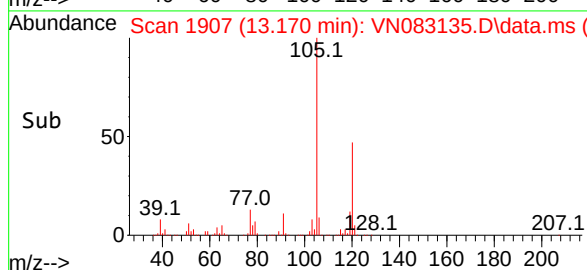
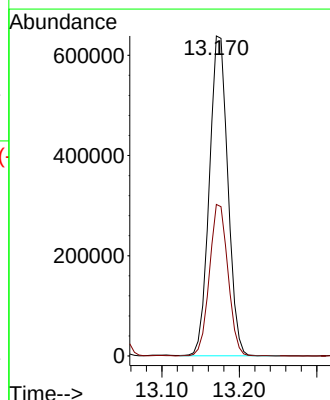
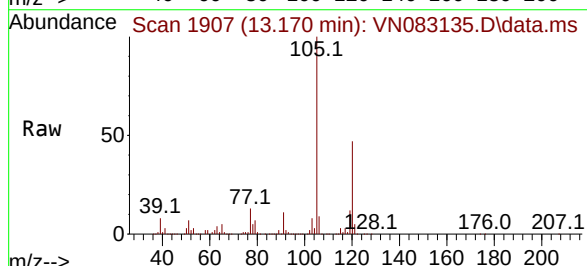
Manual Integrations
APPROVED

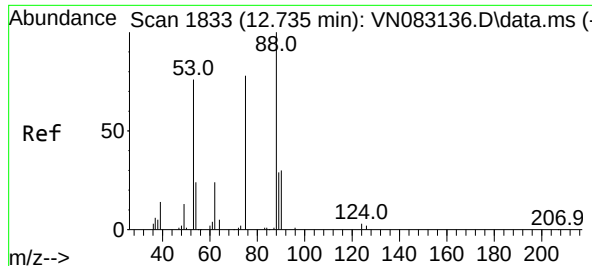
Reviewed By :John Carbone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#80
1,3,5-Trimethylbenzene
Concen: 92.690 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

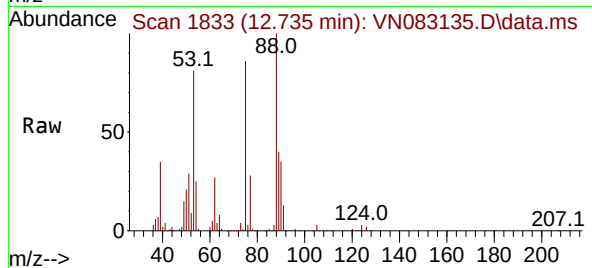
Tgt Ion:105 Resp: 1056912
Ion Ratio Lower Upper
105 100
120 47.4 24.3 72.8





#81
trans-1,4-Dichloro-2-butene
Concen: 100.628 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

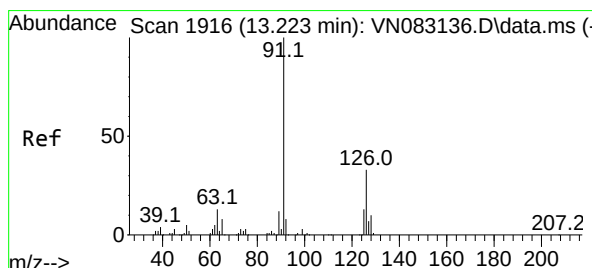
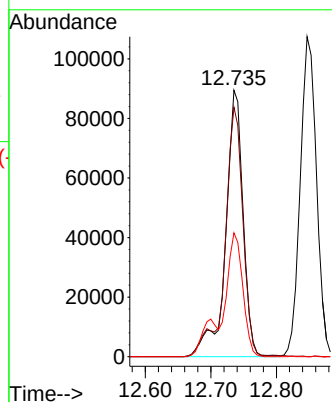
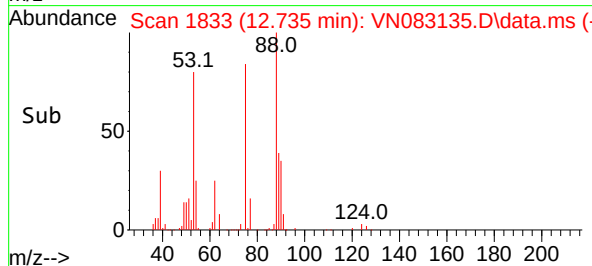
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 75 Resp: 165320
Ion Ratio Lower Upper
75 100
53 96.5 88.4 132.6
89 41.9 36.3 54.5

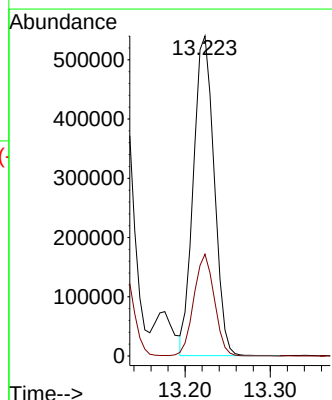
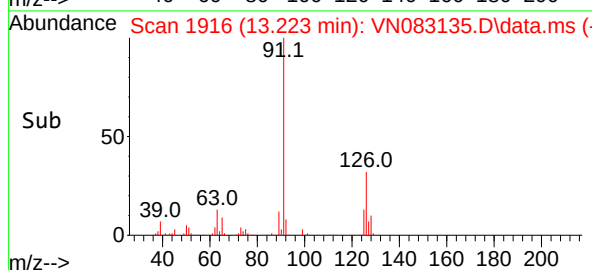
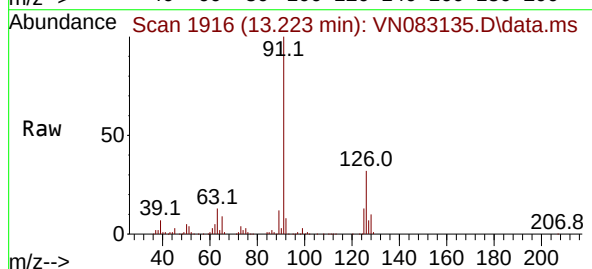
Manual Integrations
APPROVED

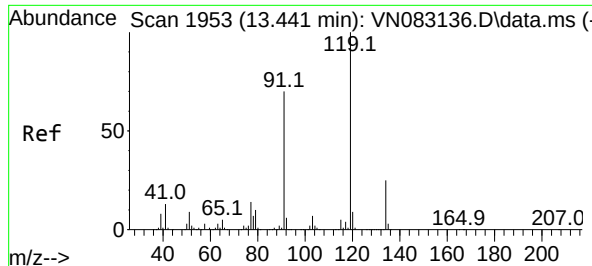
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#82
4-Chlorotoluene
Concen: 91.381 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

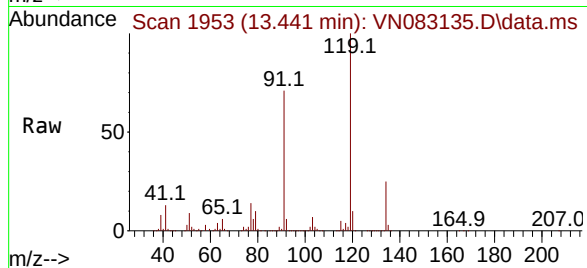
Tgt Ion: 91 Resp: 911384
Ion Ratio Lower Upper
91 100
126 31.4 16.2 48.6





#83
tert-Butylbenzene
Concen: 91.918 ug/l
RT: 13.441 min Scan# 1953
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

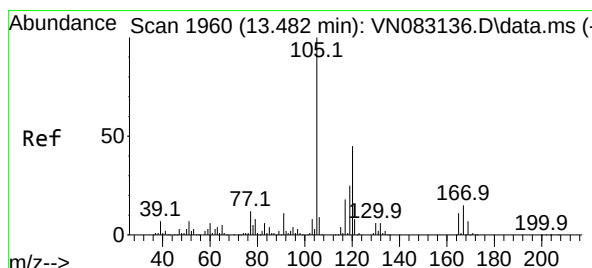
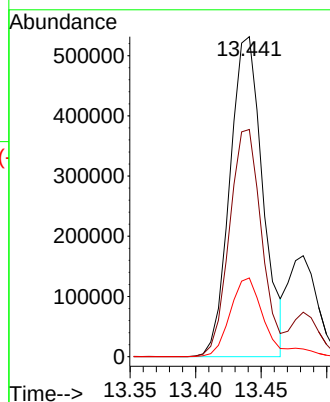
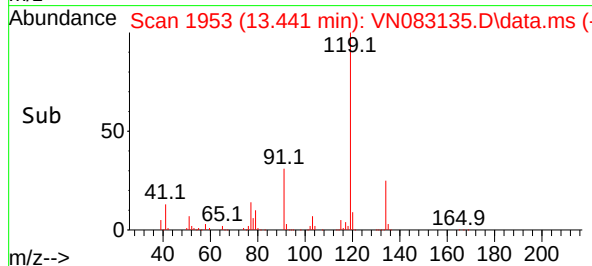
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100



Tgt Ion:119 Resp: 92819
Ion Ratio Lower Upper
119 100
91 69.3 35.0 105.1
134 26.1 13.3 39.8

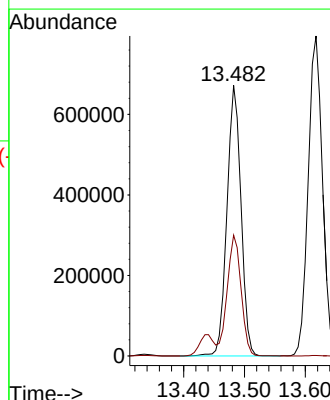
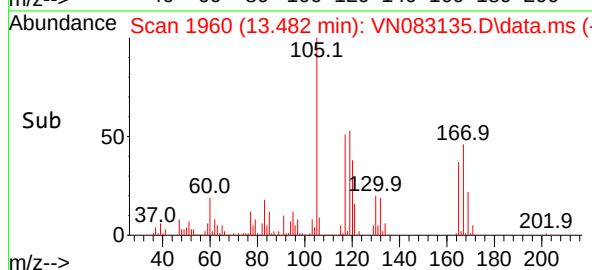
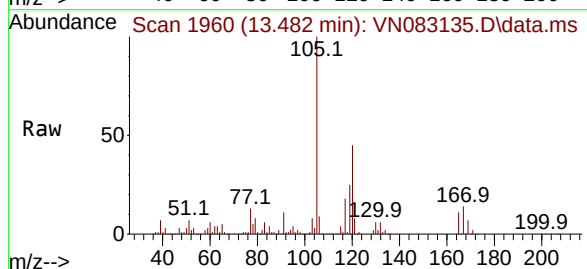
Manual Integrations
APPROVED

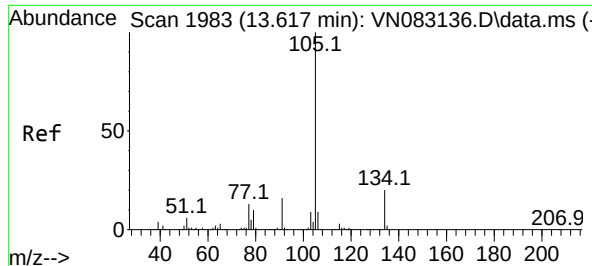
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#84
1,2,4-Trimethylbenzene
Concen: 93.675 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

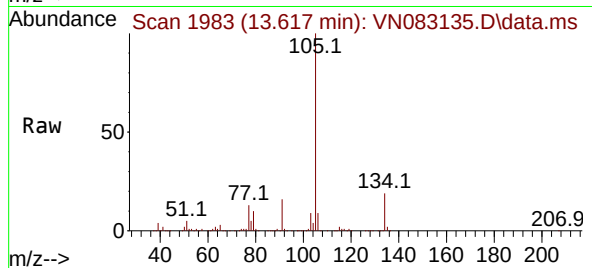
Tgt Ion:105 Resp: 1076449
Ion Ratio Lower Upper
105 100
120 44.4 21.9 65.8





#85
sec-Butylbenzene
Concen: 93.978 ug/l
RT: 13.617 min Scan# 1983
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

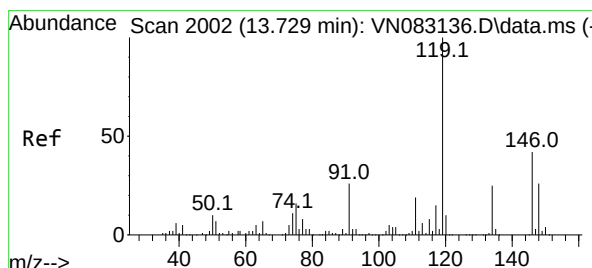
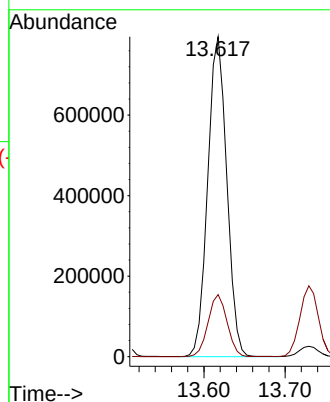
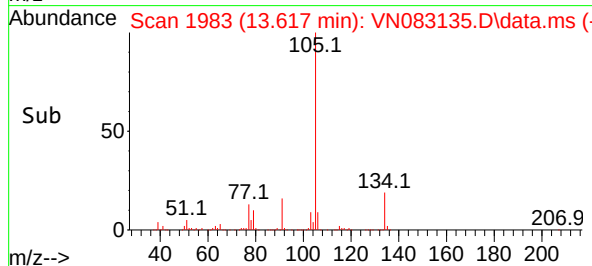
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



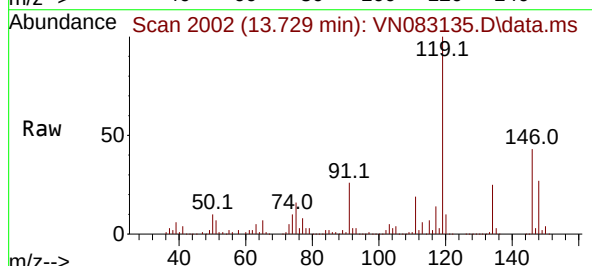
Tgt Ion:105 Resp: 1294900
Ion Ratio Lower Upper
105 100
134 19.4 9.8 29.3

Manual Integrations
APPROVED

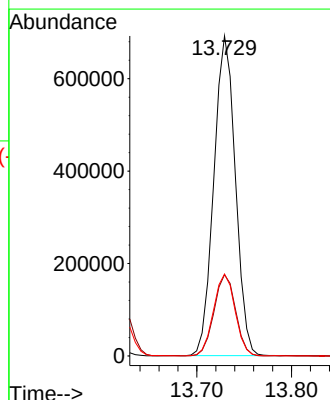
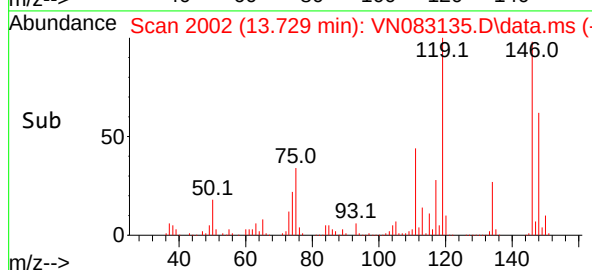
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

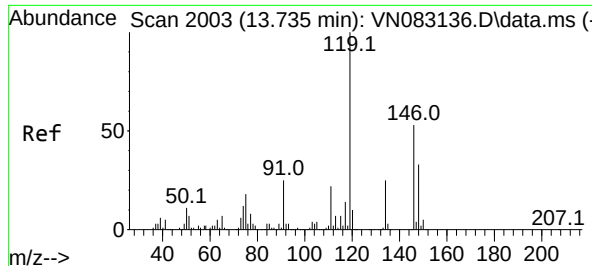


#86
p-Isopropyltoluene
Concen: 96.022 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33



Tgt Ion:119 Resp: 1092439
Ion Ratio Lower Upper
119 100
134 25.5 13.0 39.0
91 25.5 12.3 36.9





#87

1,3-Dichlorobenzene

Concen: 94.009 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:146 Resp: 53519

Ion Ratio Lower Upper

146 100

111 43.5 20.6 61.9

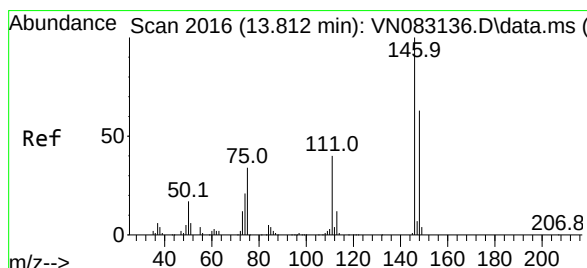
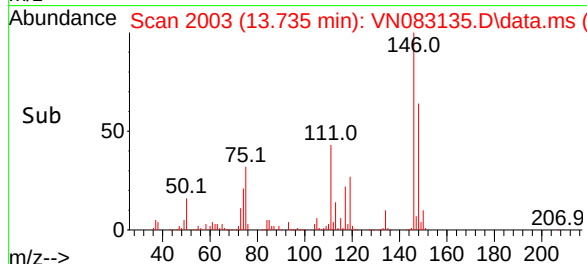
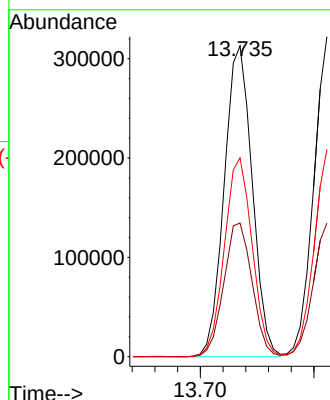
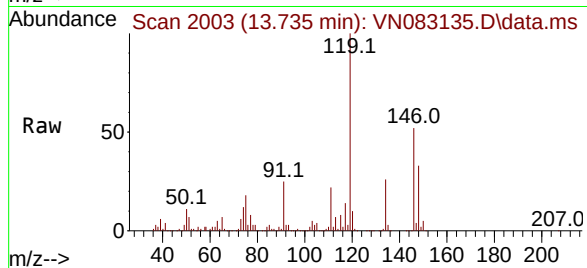
148 63.6 31.8 95.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#88

1,4-Dichlorobenzene

Concen: 93.900 ug/l

RT: 13.811 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

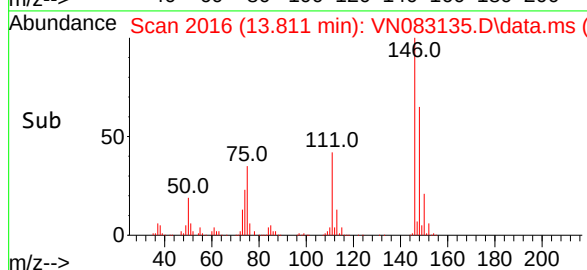
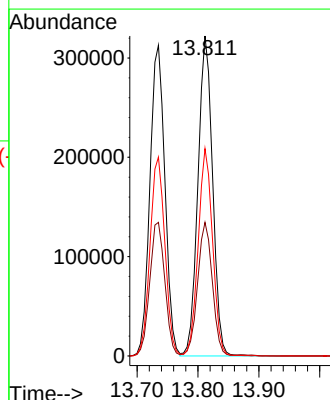
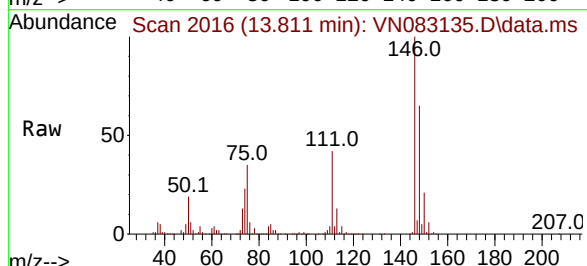
Tgt Ion:146 Resp: 538924

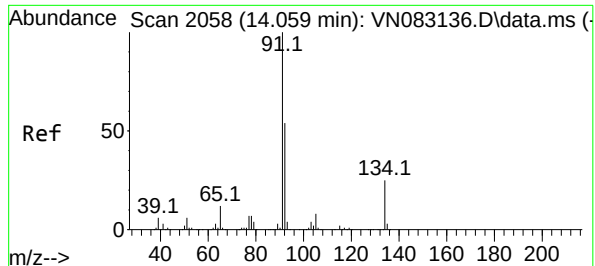
Ion Ratio Lower Upper

146 100

111 41.5 20.1 60.3

148 63.6 32.2 96.6





#89

n-Butylbenzene

Concen: 99.461 ug/l

RT: 14.059 min Scan# 2058

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

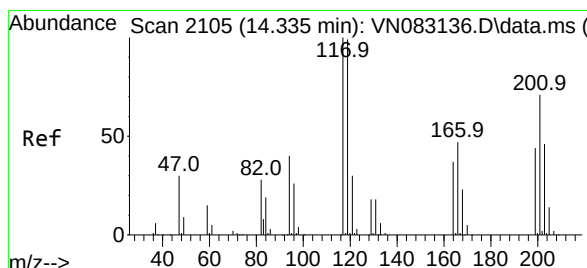
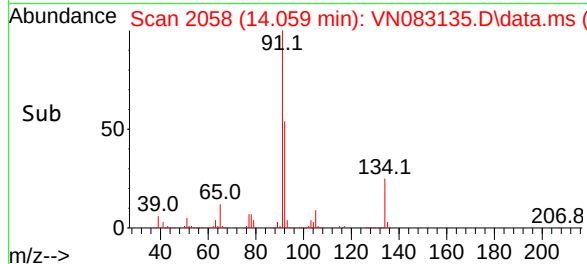
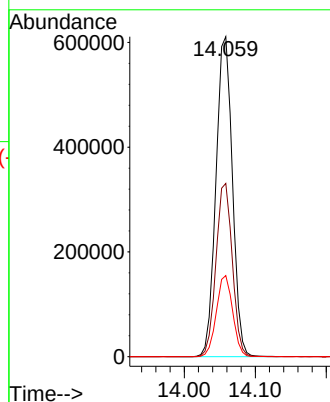
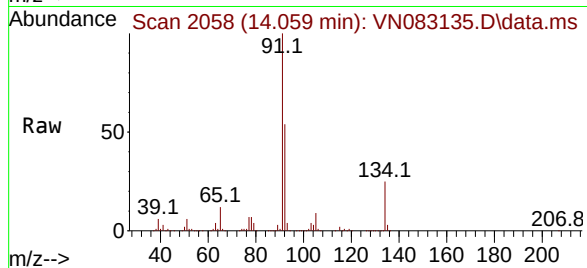
Tgt Ion:	91	Resp:	98048
Ion Ratio	Lower	Upper	
91	100		
92	53.8	26.1	78.3
134	25.2	12.1	36.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#90

Hexachloroethane

Concen: 96.320 ug/l

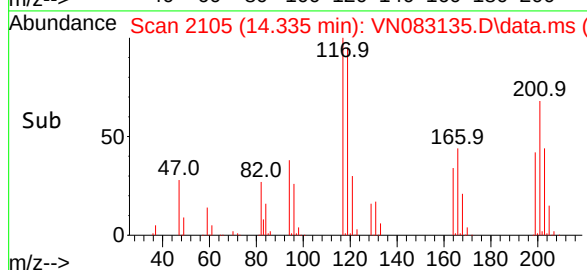
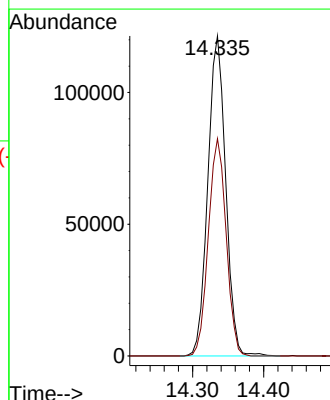
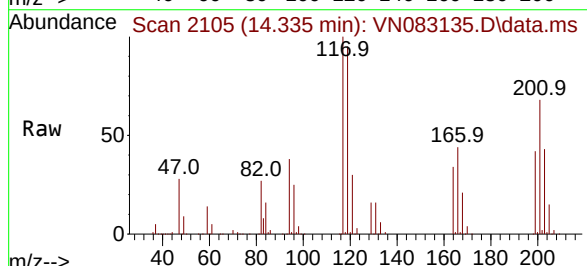
RT: 14.335 min Scan# 2105

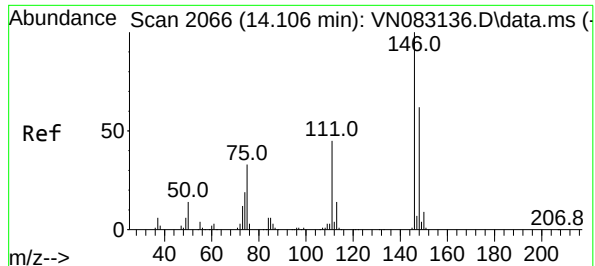
Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

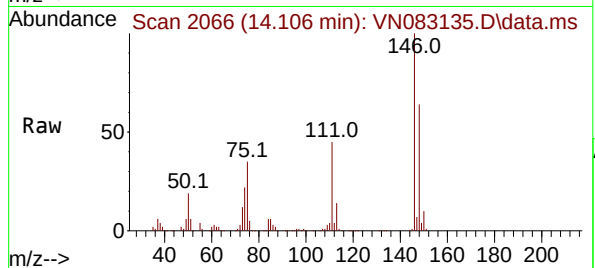
Tgt Ion:	117	Resp:	211710
Ion Ratio	Lower	Upper	
117	100		
201	67.7	35.8	107.3





#91
1,2-Dichlorobenzene
Concen: 92.863 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

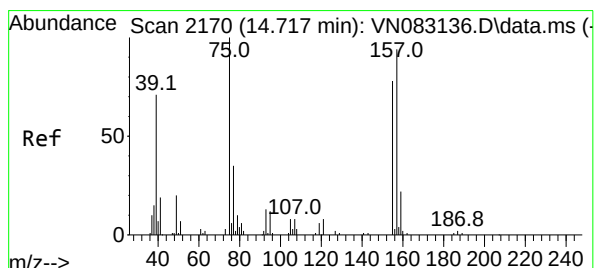
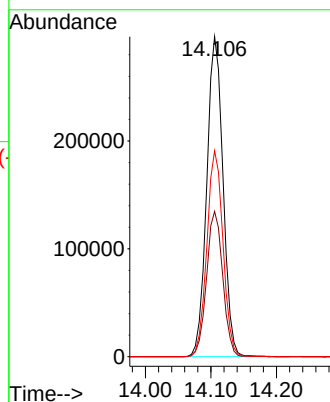
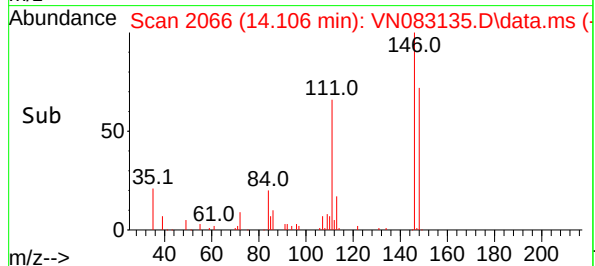
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:146 Resp: 511584
Ion Ratio Lower Upper
146 100
111 45.4 21.4 64.2
148 63.9 32.1 96.5

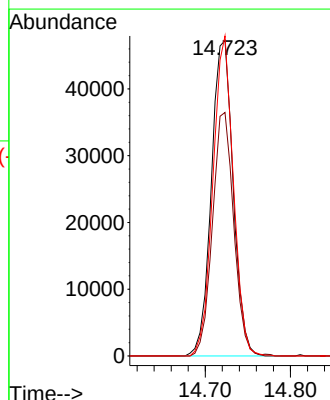
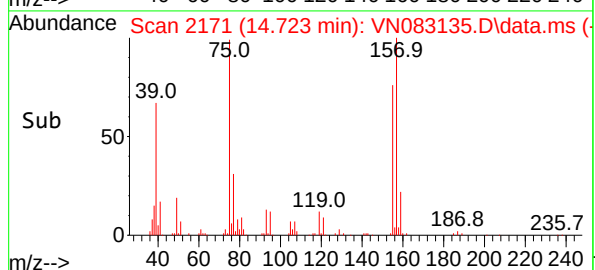
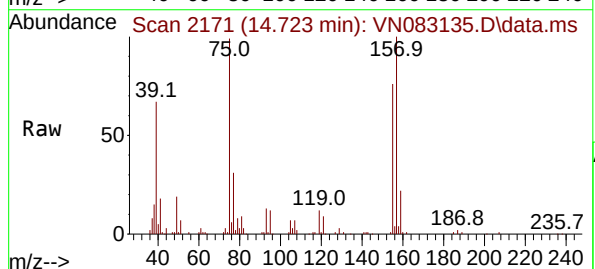
Manual Integrations
APPROVED

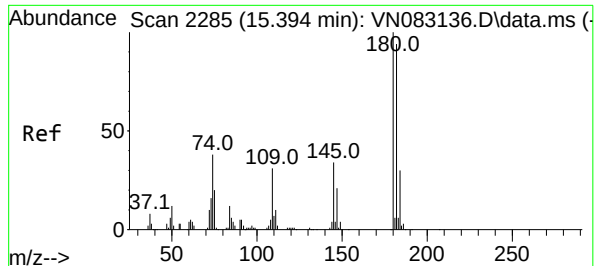
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#92
1,2-Dibromo-3-Chloropropane
Concen: 89.788 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

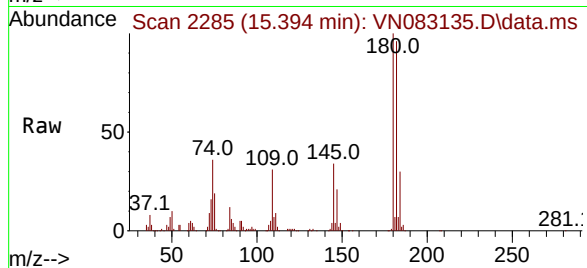
Tgt Ion: 75 Resp: 83930
Ion Ratio Lower Upper
75 100
155 75.2 36.6 109.8
157 95.1 46.9 140.6





#93
1,2,4-Trichlorobenzene
Concen: 96.456 ug/l
RT: 15.394 min Scan# 2285
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

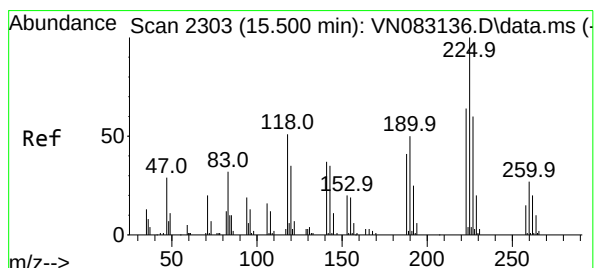
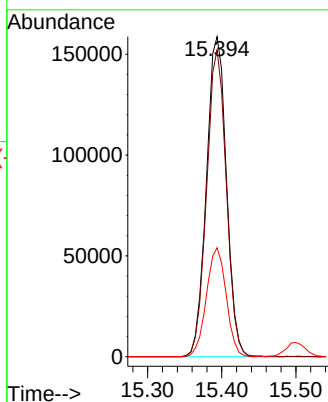
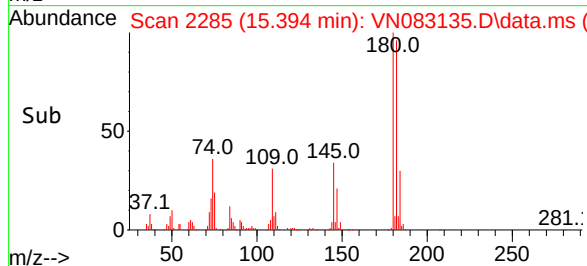
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:180 Resp: 297699
Ion Ratio Lower Upper
180 100
182 94.1 47.3 141.8
145 33.6 15.7 47.1

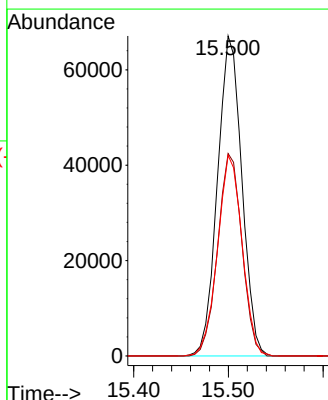
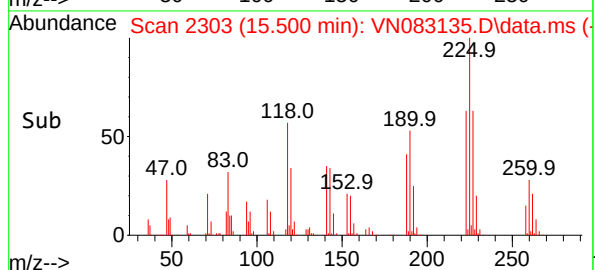
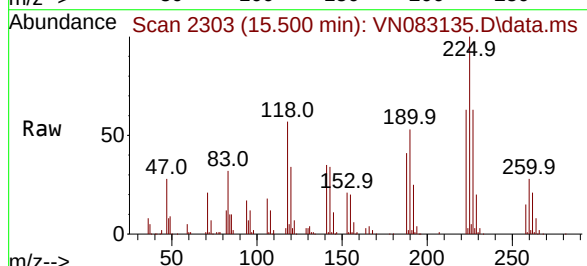
Manual Integrations
APPROVED

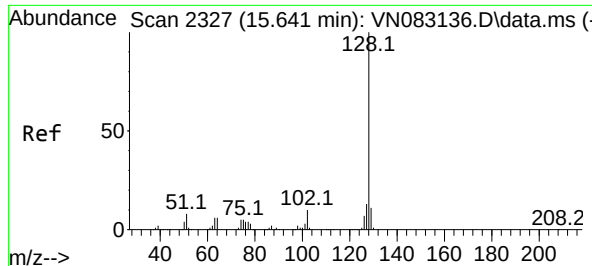
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#94
Hexachlorobutadiene
Concen: 87.268 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

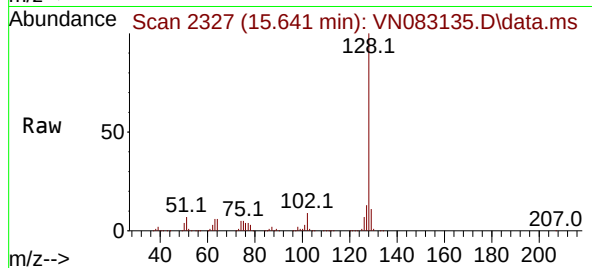
Tgt Ion:225 Resp: 119783
Ion Ratio Lower Upper
225 100
223 63.0 31.9 95.7
227 63.3 32.5 97.5





#95
Naphthalene
Concen: 95.391 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

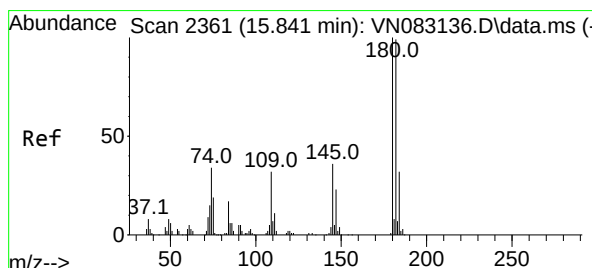
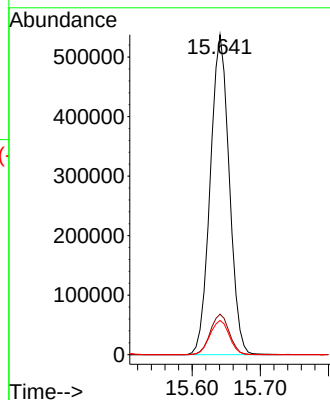
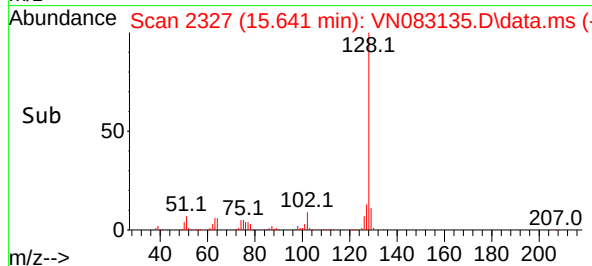
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100



Tgt Ion:128 Resp: 1042864
Ion Ratio Lower Upper
128 100
127 12.7 10.6 16.0
129 10.9 8.6 12.8

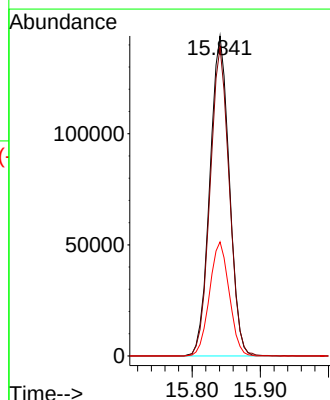
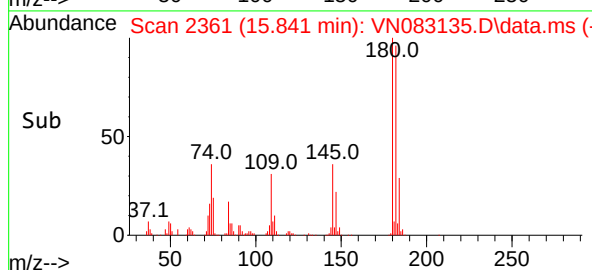
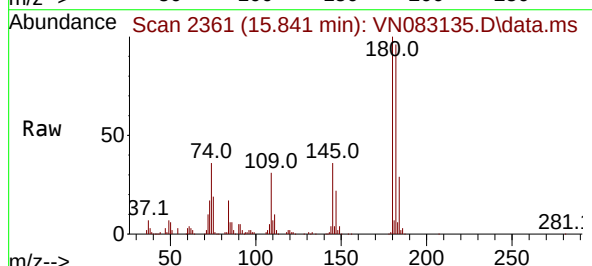
Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#96
1,2,3-Trichlorobenzene
Concen: 93.575 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:180 Resp: 285769
Ion Ratio Lower Upper
180 100
182 95.1 48.9 146.8
145 36.0 16.8 50.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
 Data File : VN083136.D
 Acq On : 07 Aug 2024 10:58
 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 08/08/2024
 Supervised By : Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 06:15:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 05:50:26 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	204914	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	348813	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	303118	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	143466	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	152684	52.348	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.700%			
35) Dibromofluoromethane	8.165	113	115863	53.216	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.440%			
50) Toluene-d8	10.565	98	439976	54.174	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 108.340%			
62) 4-Bromofluorobenzene	12.847	95	171524	54.173	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 108.340%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	116913	50.312	ug/l	97
3) Chloromethane	2.359	50	121130	50.915	ug/l	93
4) Vinyl Chloride	2.512	62	122548	50.482	ug/l	98
5) Bromomethane	2.948	94	73113	48.538	ug/l	95
6) Chloroethane	3.112	64	72966	48.043	ug/l	98
7) Trichlorofluoromethane	3.495	101	203848	50.832	ug/l	98
8) Diethyl Ether	3.959	74	75087	50.318	ug/l	84
9) 1,1,2-Trichlorotrifluo...	4.365	101	112201	50.747	ug/l	98
10) Methyl Iodide	4.589	142	151731	52.170	ug/l	96
11) Tert butyl alcohol	5.530	59	150267	247.904	ug/l	100
12) 1,1-Dichloroethene	4.342	96	111564	49.114	ug/l	87
13) Acrolein	4.183	56	104276	263.954	ug/l	98
14) Allyl chloride	5.018	41	191195	44.541	ug/l	93
15) Acrylonitrile	5.718	53	313090	251.149	ug/l	98
16) Acetone	4.430	43	293091	256.804	ug/l	97
17) Carbon Disulfide	4.712	76	319654	48.094	ug/l	98
18) Methyl Acetate	5.024	43	159022	46.765	ug/l	91
19) Methyl tert-butyl Ether	5.794	73	415489	50.676	ug/l	97
20) Methylene Chloride	5.277	84	122780	46.744	ug/l	85
21) trans-1,2-Dichloroethene	5.794	96	117685	50.127	ug/l	85
22) Diisopropyl ether	6.671	45	411409	50.987	ug/l	96
23) Vinyl Acetate	6.606	43	2147591m	259.716	ug/l	
24) 1,1-Dichloroethane	6.571	63	222071	50.493	ug/l	99
25) 2-Butanone	7.483	43	437392	249.591	ug/l	91
26) 2,2-Dichloropropane	7.488	77	209679	51.336	ug/l	97
27) cis-1,2-Dichloroethene	7.488	96	141110	49.809	ug/l	92
28) Bromochloromethane	7.812	49	89942	50.041	ug/l #	83
29) Tetrahydrofuran	7.835	42	285853	252.334	ug/l	88
30) Chloroform	7.965	83	232933	50.978	ug/l	99
31) Cyclohexane	8.259	56	201273	46.565	ug/l	96
32) 1,1,1-Trichloroethane	8.171	97	220296	50.935	ug/l	95
36) 1,1-Dichloropropene	8.371	75	165826	50.349	ug/l	99
37) Ethyl Acetate	7.559	43	174105	47.213	ug/l #	92
38) Carbon Tetrachloride	8.359	117	190357	51.315	ug/l	97
39) Methylcyclohexane	9.600	83	208177	51.461	ug/l	93
40) Benzene	8.606	78	504662	51.436	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
 Data File : VN083136.D
 Acq On : 07 Aug 2024 10:58
 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 08/08/2024
 Supervised By :Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 06:15:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 05:50:26 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	98869	47.154	ug/l	94
42) 1,2-Dichloroethane	8.671	62	181440	50.765	ug/l	98
43) Isopropyl Acetate	8.688	43	321088	50.219	ug/l #	93
44) Trichloroethene	9.353	130	119998	51.383	ug/l	94
45) 1,2-Dichloropropane	9.624	63	120518	51.747	ug/l	97
46) Dibromomethane	9.712	93	87411	52.436	ug/l	99
47) Bromodichloromethane	9.888	83	188069	50.245	ug/l	99
48) Methyl methacrylate	9.682	41	148264	48.631	ug/l	91
49) 1,4-Dioxane	9.694	88	57033	1036.917	ug/l	95
51) 4-Methyl-2-Pentanone	10.447	43	901412	258.493	ug/l	92
52) Toluene	10.629	92	323148	52.127	ug/l	98
53) t-1,3-Dichloropropene	10.835	75	208411	54.205	ug/l	100
54) cis-1,3-Dichloropropene	10.312	75	211396	51.692	ug/l	91
55) 1,1,2-Trichloroethane	11.018	97	116384	52.387	ug/l	99
56) Ethyl methacrylate	10.876	69	217635	51.964	ug/l #	85
57) 1,3-Dichloropropane	11.165	76	206442	52.133	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	454871	256.939	ug/l	95
59) 2-Hexanone	11.194	43	691708	256.396	ug/l	92
60) Dibromochloromethane	11.359	129	144208	53.688	ug/l	99
61) 1,2-Dibromoethane	11.471	107	121153	51.912	ug/l	98
64) Tetrachloroethene	11.106	164	103955	51.784	ug/l	96
65) Chlorobenzene	11.894	112	346172	51.679	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.965	131	121057	51.242	ug/l	100
67) Ethyl Benzene	11.965	91	628906	51.179	ug/l	98
68) m/p-Xylenes	12.070	106	477261	103.683	ug/l	99
69) o-Xylene	12.400	106	234432	51.638	ug/l	100
70) Styrene	12.412	104	405002	53.115	ug/l	98
71) Bromoform	12.576	173	96377	53.850	ug/l #	99
73) Isopropylbenzene	12.694	105	609529	50.795	ug/l	100
74) N-amyl acetate	12.494	43	287319	48.950	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.935	83	167489	49.349	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	152531m	48.363	ug/l	
77) Bromobenzene	12.982	156	137514	51.587	ug/l	97
78) n-propylbenzene	13.035	91	712768	51.584	ug/l	99
79) 2-Chlorotoluene	13.123	91	441262	50.371	ug/l	98
80) 1,3,5-Trimethylbenzene	13.170	105	514918	51.254	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.735	75	70776	48.894	ug/l	89
82) 4-Chlorotoluene	13.223	91	445369	50.684	ug/l	99
83) tert-Butylbenzene	13.441	119	453597	50.983	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	524226	51.778	ug/l	100
85) sec-Butylbenzene	13.617	105	628959	51.809	ug/l	100
86) p-Isopropyltoluene	13.729	119	528236	52.699	ug/l	98
87) 1,3-Dichlorobenzene	13.735	146	254058	50.651	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	255814	50.589	ug/l	99
89) n-Butylbenzene	14.059	91	461372	53.120	ug/l	97
90) Hexachloroethane	14.335	117	98836	51.037	ug/l	98
91) 1,2-Dichlorobenzene	14.106	146	244462	50.365	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	40369	49.017	ug/l	98
93) 1,2,4-Trichlorobenzene	15.394	180	141229	51.937	ug/l	99
94) Hexachlorobutadiene	15.500	225	58664	48.509	ug/l	98
95) Naphthalene	15.641	128	499372	51.844	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	138125	51.335	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083136.D
Acq On : 07 Aug 2024 10:58
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 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 06:15:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
Response via : Initial Calibration

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

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

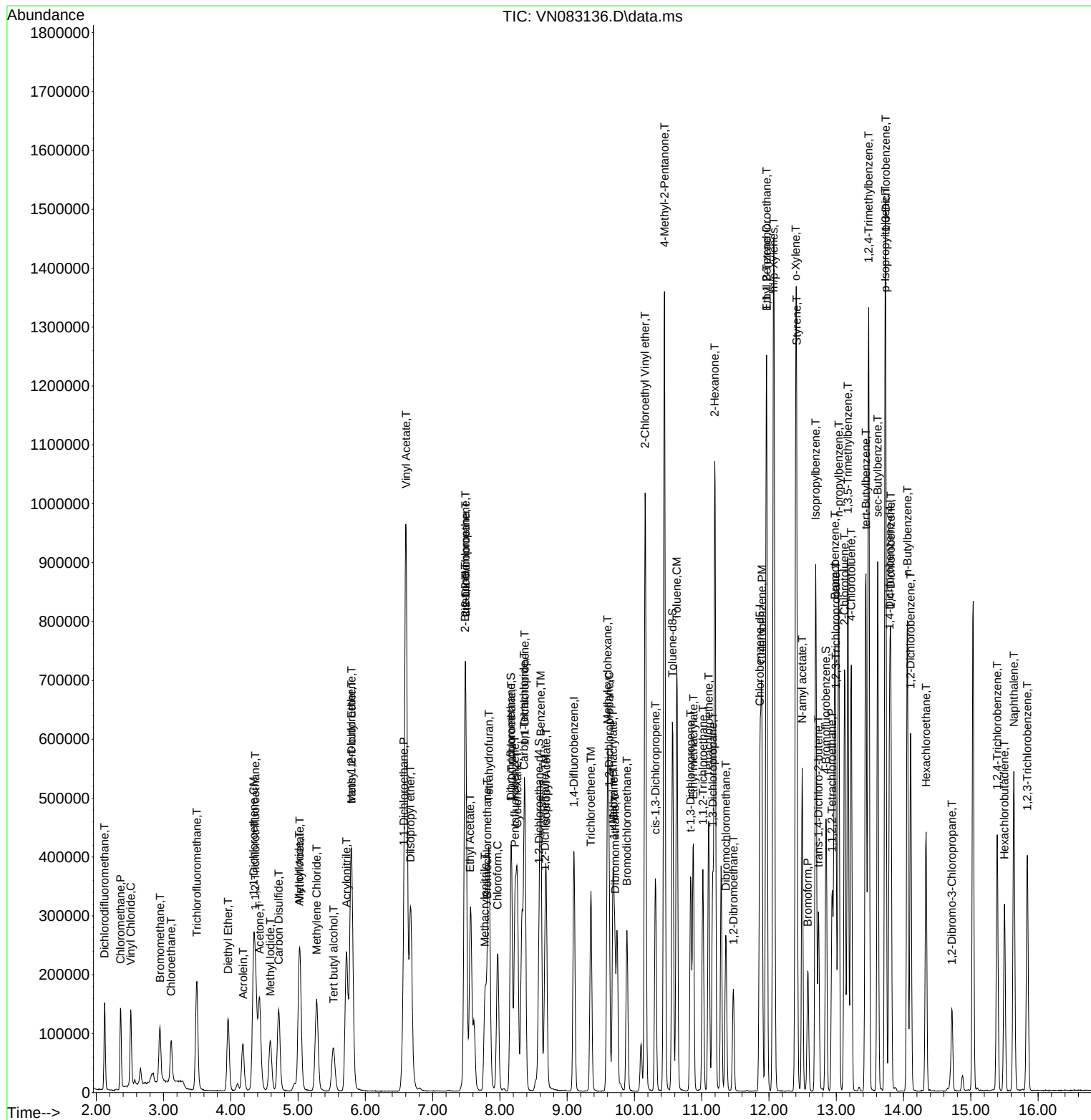
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083136.D
Acq On : 07 Aug 2024 10:58
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

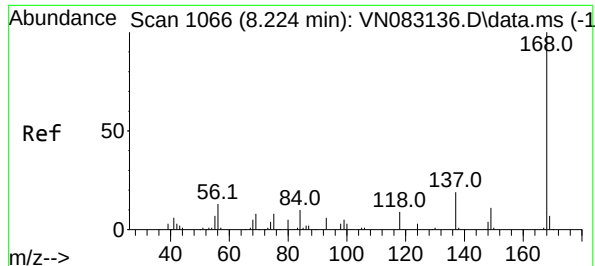
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

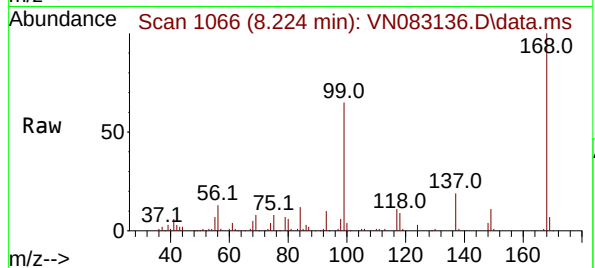
Quant Time: Aug 08 06:15:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

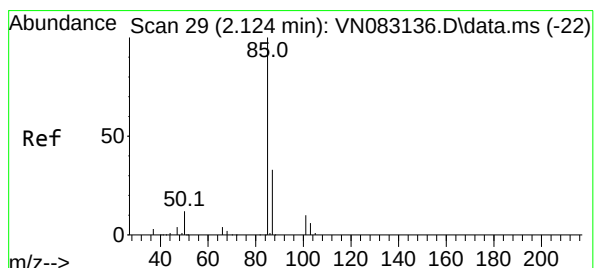
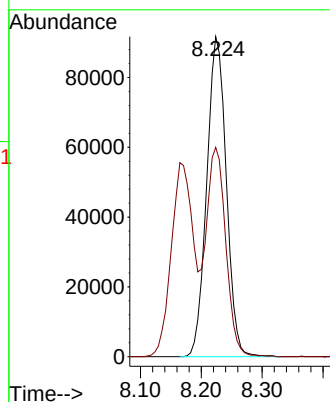
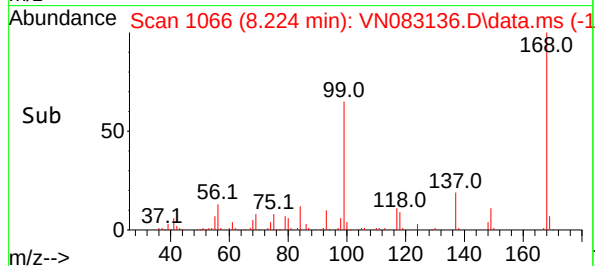
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion:168 Resp: 204914
Ion Ratio Lower Upper
168 100
99 65.4 48.2 72.4

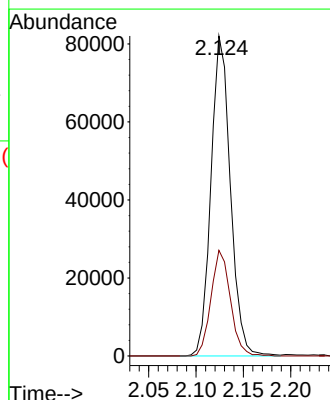
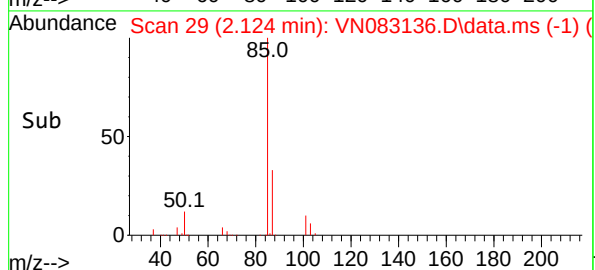
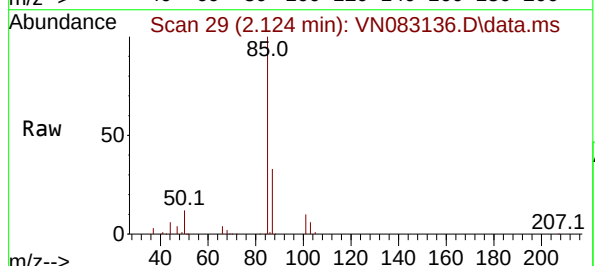
Manual Integrations
APPROVED

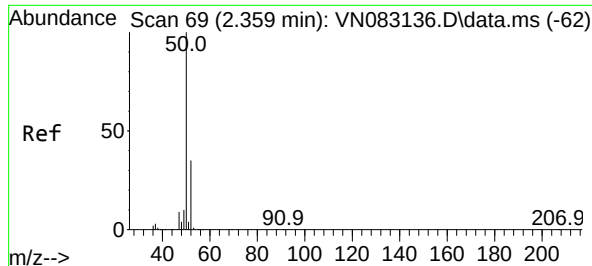
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#2
Dichlorodifluoromethane
Concen: 50.312 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

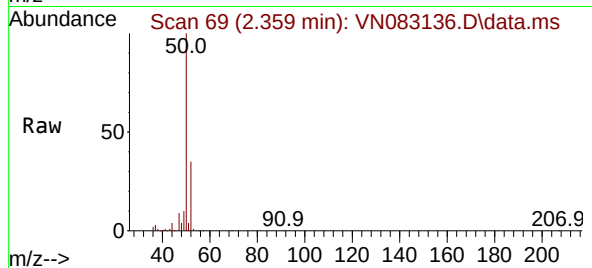
Tgt Ion: 85 Resp: 116913
Ion Ratio Lower Upper
85 100
87 33.0 15.7 47.0





#3
Chloromethane
Concen: 50.915 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

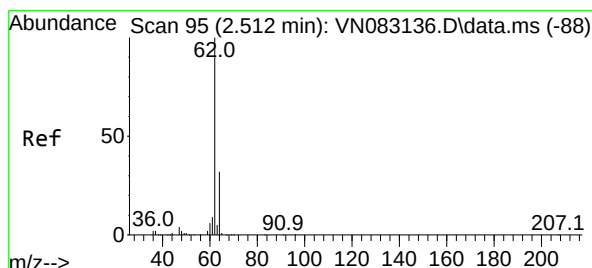
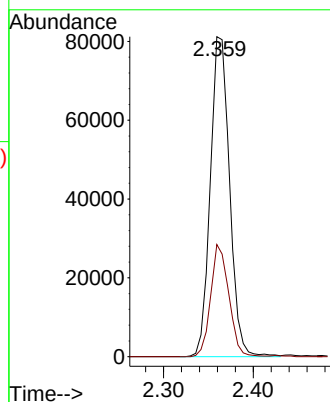
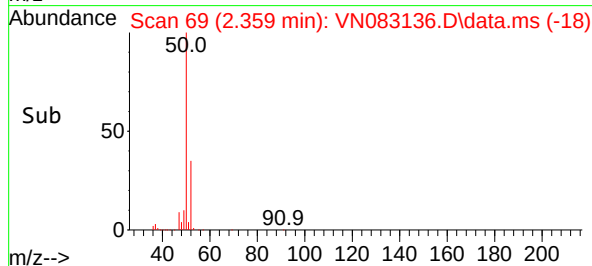
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 50 Resp: 121130
Ion Ratio Lower Upper
50 100
52 35.1 25.0 37.4

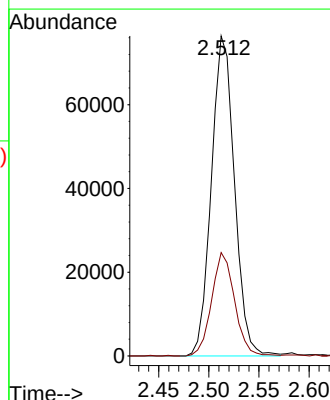
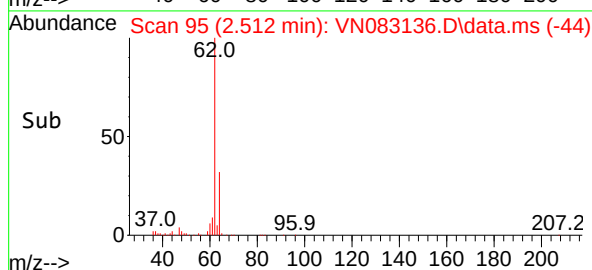
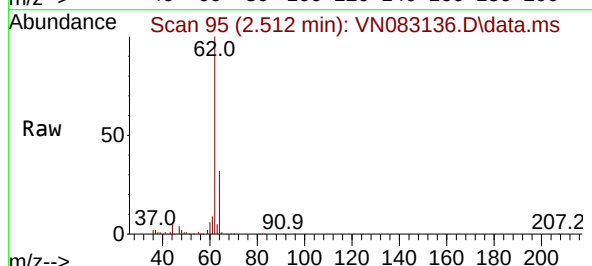
Manual Integrations
APPROVED

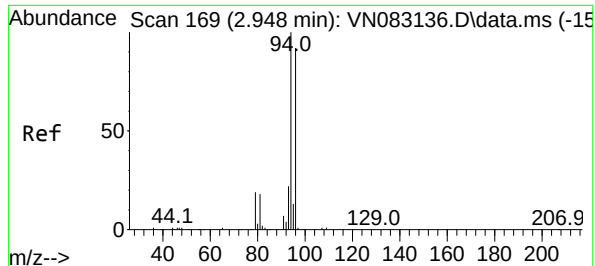
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#4
Vinyl Chloride
Concen: 50.482 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 62 Resp: 122548
Ion Ratio Lower Upper
62 100
64 32.3 25.0 37.6





#5

Bromomethane

Concen: 48.538 ug/l

RT: 2.948 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 94 Resp: 7311

Ion Ratio Lower Upper

94 100

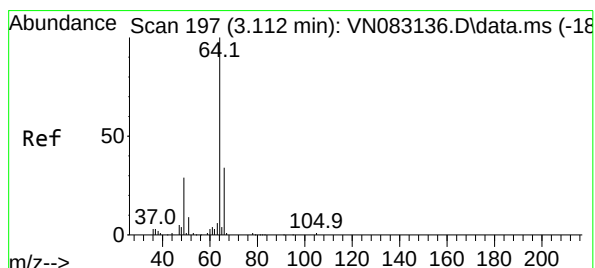
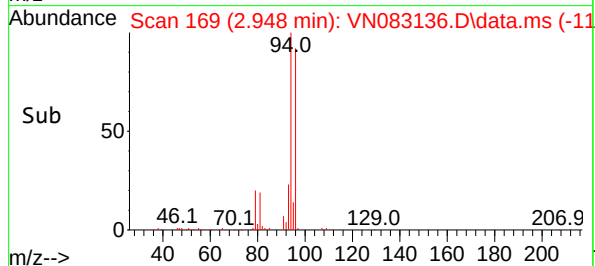
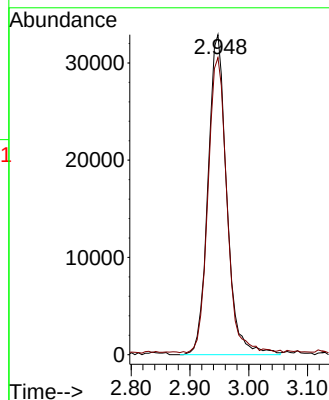
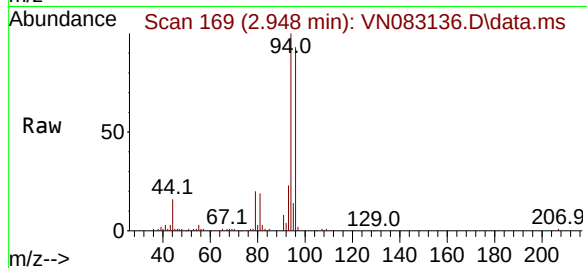
96 92.2 78.0 117.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#6

Chloroethane

Concen: 48.043 ug/l

RT: 3.112 min Scan# 197

Delta R.T. 0.000 min

Lab File: VN083136.D

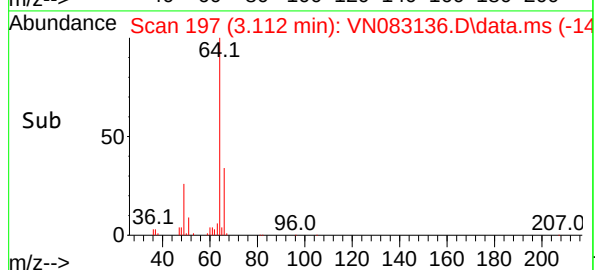
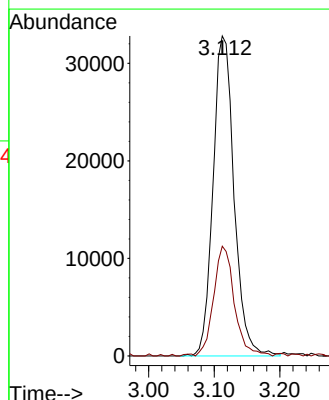
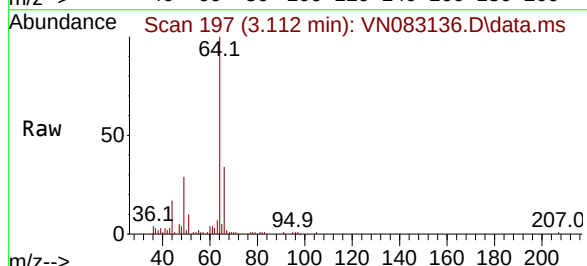
Acq: 07 Aug 2024 10:58

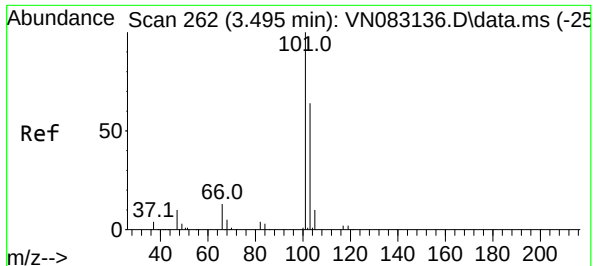
Tgt Ion: 64 Resp: 72966

Ion Ratio Lower Upper

64 100

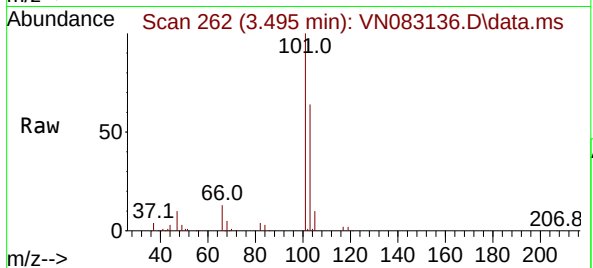
66 34.3 26.6 40.0





#7
Trichlorofluoromethane
Concen: 50.832 ug/l
RT: 3.495 min Scan# 262
Delta R.T. -0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

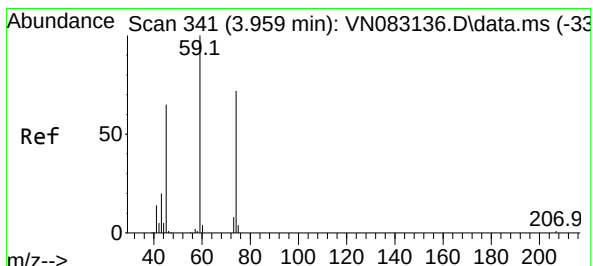
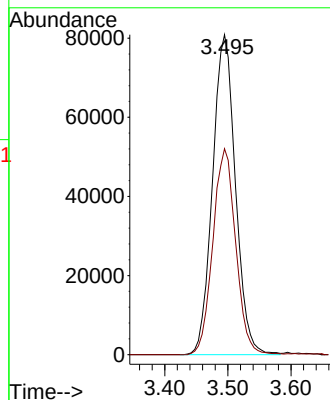
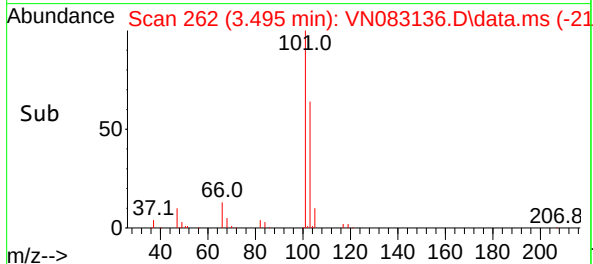
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion:101 Resp: 20384
Ion Ratio Lower Upper
101 100
103 64.3 52.7 79.1

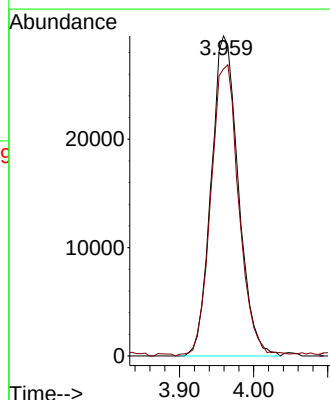
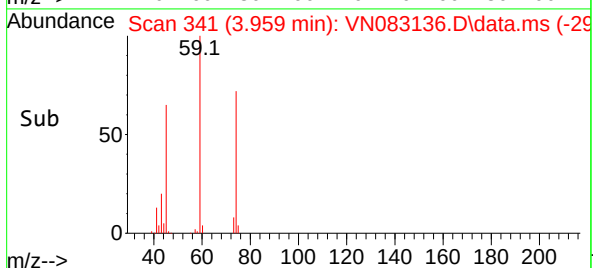
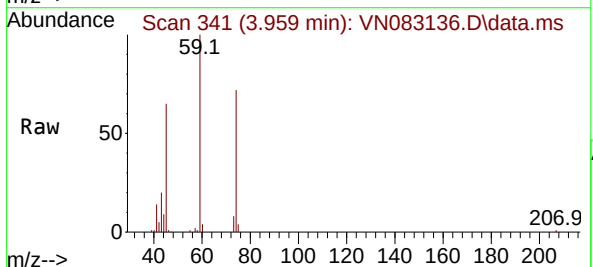
Manual Integrations
APPROVED

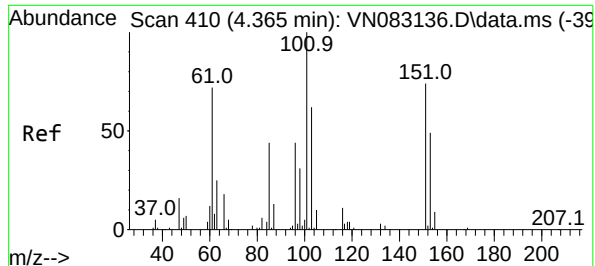
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#8
Diethyl Ether
Concen: 50.318 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 74 Resp: 75087
Ion Ratio Lower Upper
74 100
45 94.0 55.5 166.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 50.747 ug/l

RT: 4.365 min Scan# 410

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:101 Resp: 11220

Ion Ratio Lower Upper

101 100

85 45.9 38.3 57.5

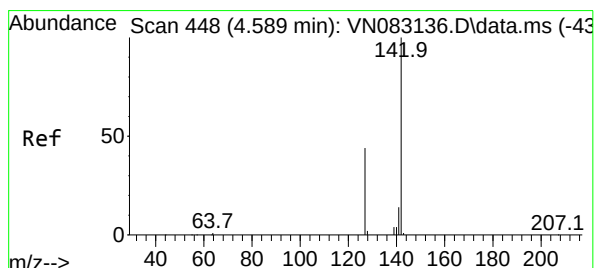
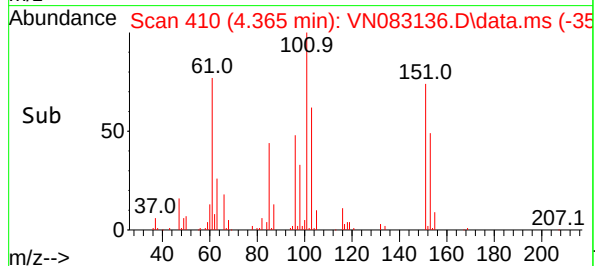
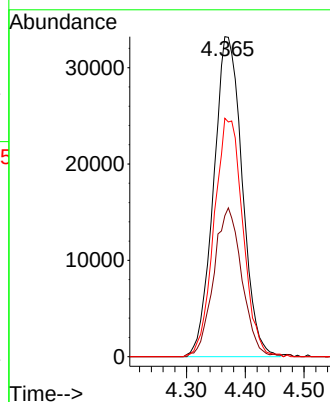
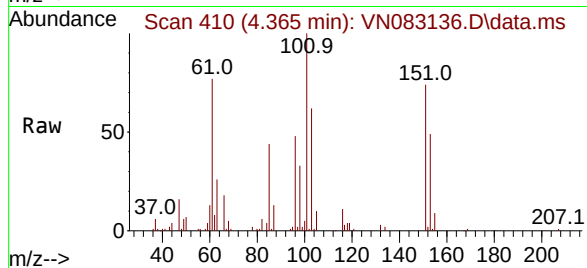
151 75.1 59.3 88.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#10

Methyl Iodide

Concen: 52.170 ug/l

RT: 4.589 min Scan# 448

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

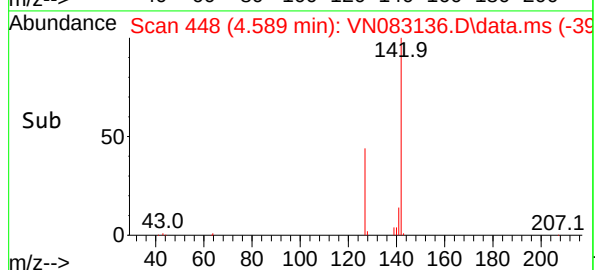
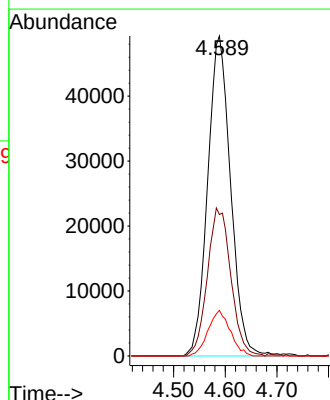
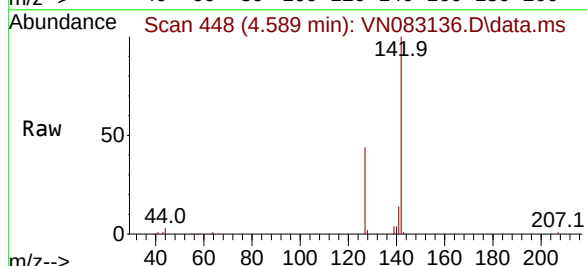
Tgt Ion:142 Resp: 151731

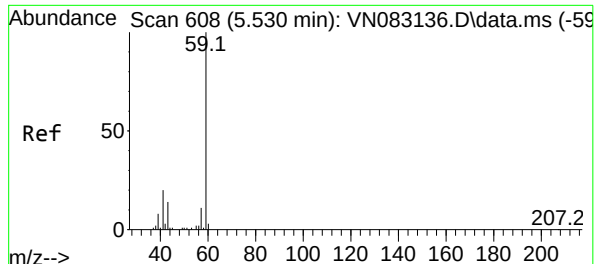
Ion Ratio Lower Upper

142 100

127 44.2 37.5 56.3

141 14.3 13.1 19.7





#11

Tert butyl alcohol

Concen: 247.904 ug/l

RT: 5.530 min Scan# 608

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 59 Resp: 15026

Ion Ratio Lower Upper

59 100

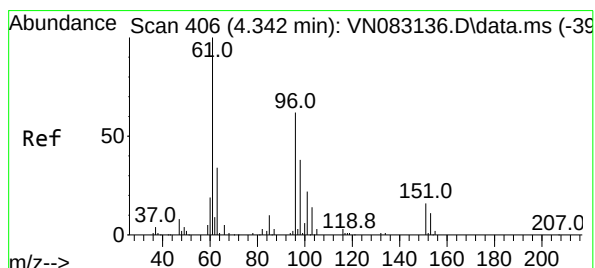
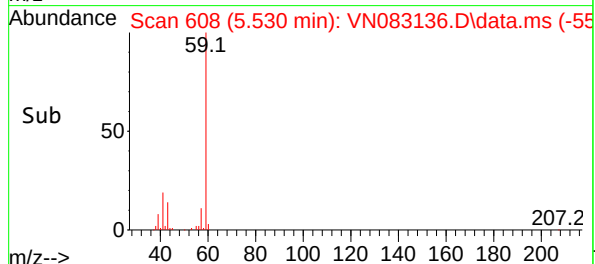
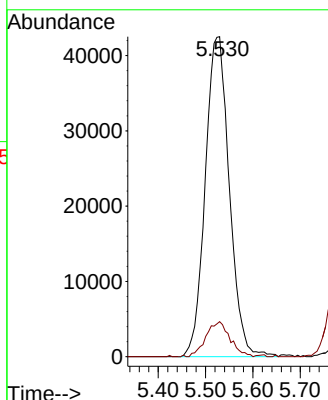
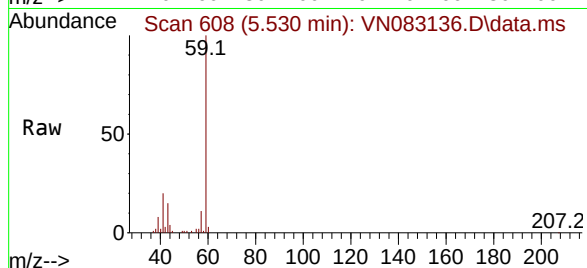
57 11.0 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#12

1,1-Dichloroethene

Concen: 49.114 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

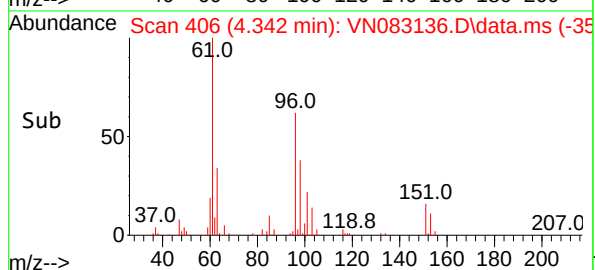
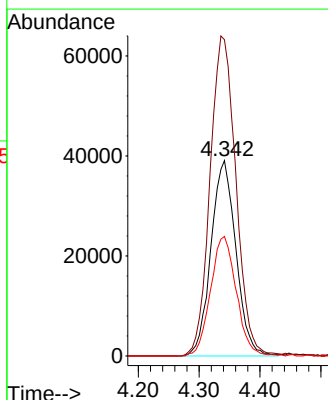
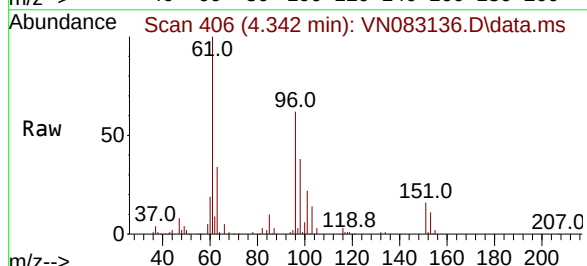
Tgt Ion: 96 Resp: 111564

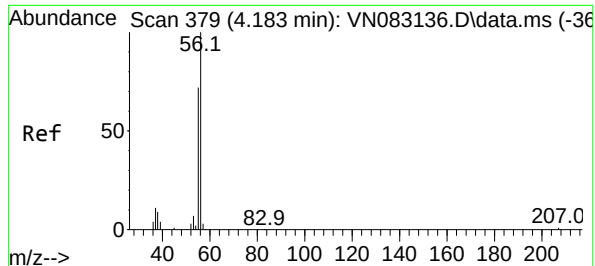
Ion Ratio Lower Upper

96 100

61 162.0 149.7 224.5

98 61.2 50.1 75.1





#13

Acrolein

Concen: 263.954 ug/l

RT: 4.183 min Scan# 379

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 104270

Ion Ratio Lower Upper

56 100

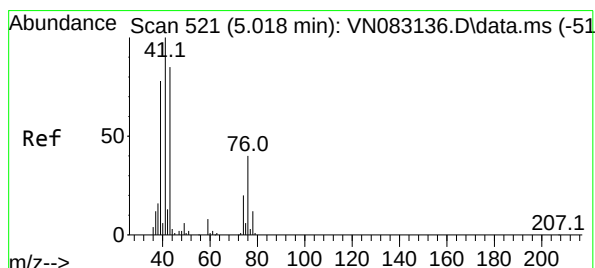
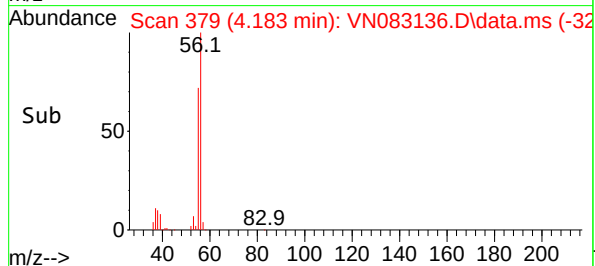
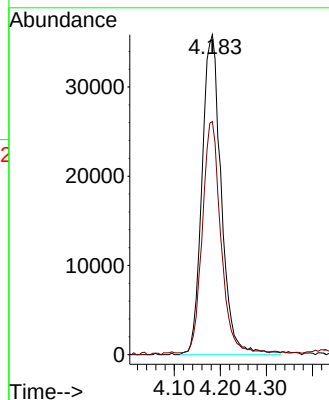
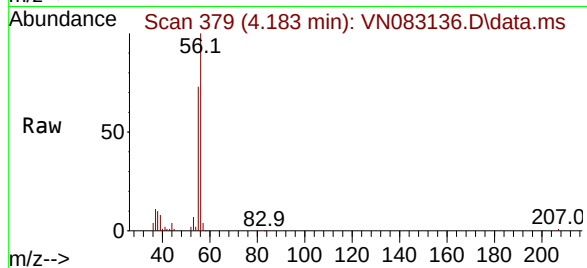
55 68.8 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#14

Allyl chloride

Concen: 44.541 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

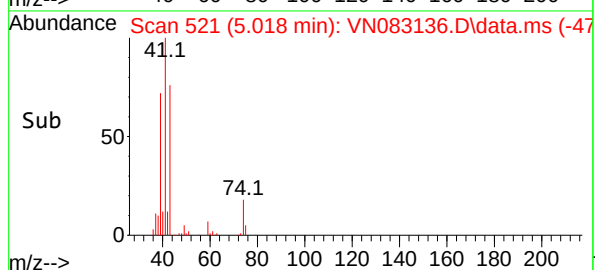
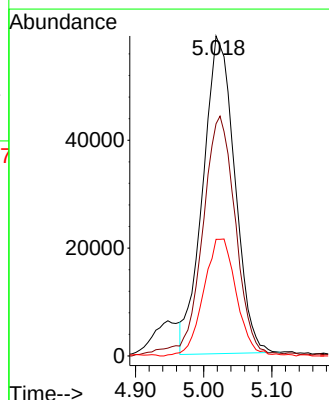
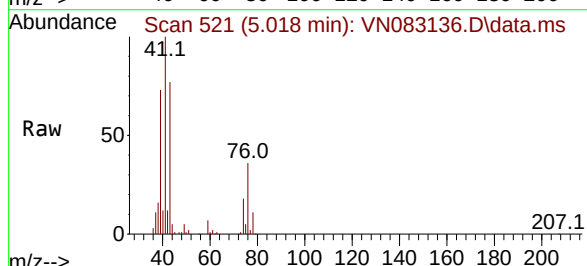
Tgt Ion: 41 Resp: 191195

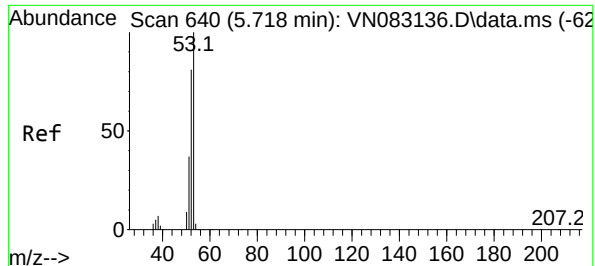
Ion Ratio Lower Upper

41 100

39 78.9 67.8 101.6

76 38.1 25.8 38.8





#15

Acrylonitrile

Concen: 251.149 ug/l

RT: 5.718 min Scan# 640

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 53 Resp: 313090

Ion Ratio Lower Upper

53 100

52 81.2 66.6 100.0

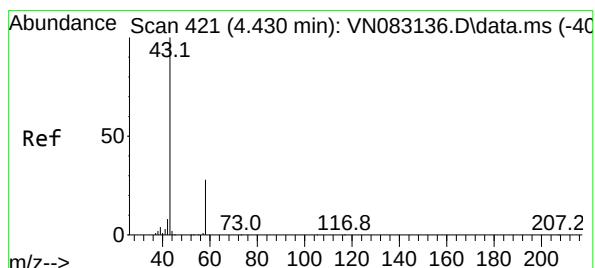
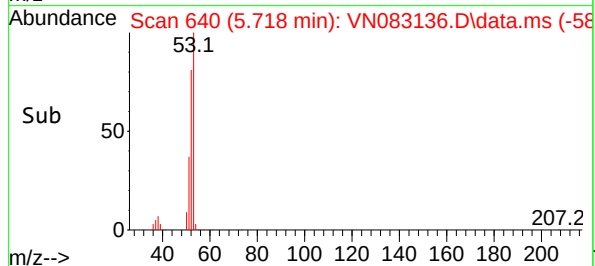
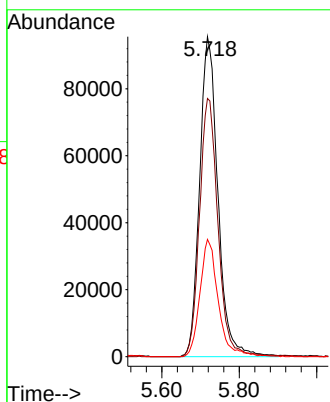
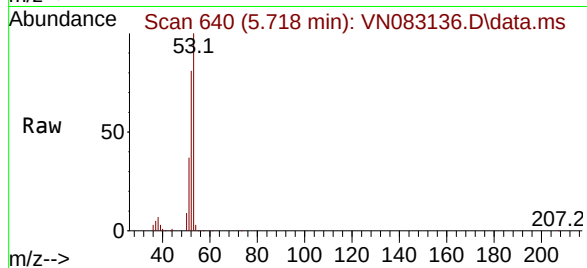
51 36.5 30.1 45.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#16

Acetone

Concen: 256.804 ug/l

RT: 4.430 min Scan# 421

Delta R.T. 0.000 min

Lab File: VN083136.D

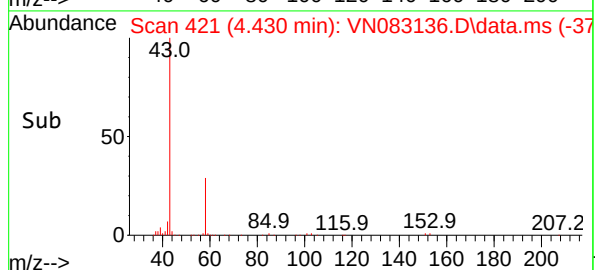
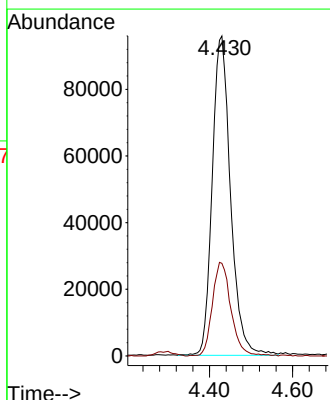
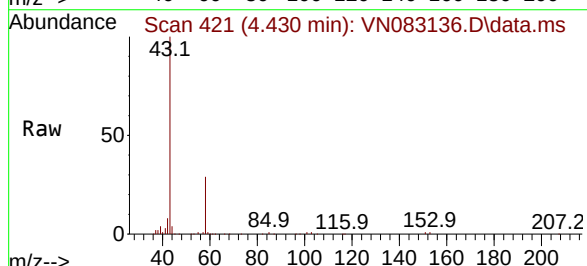
Acq: 07 Aug 2024 10:58

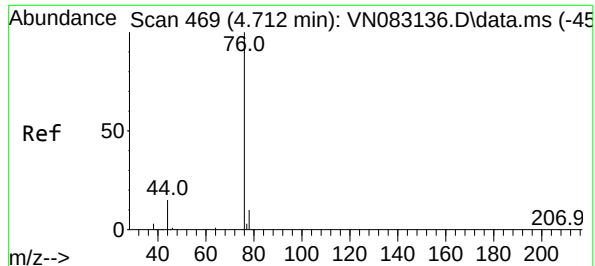
Tgt Ion: 43 Resp: 293091

Ion Ratio Lower Upper

43 100

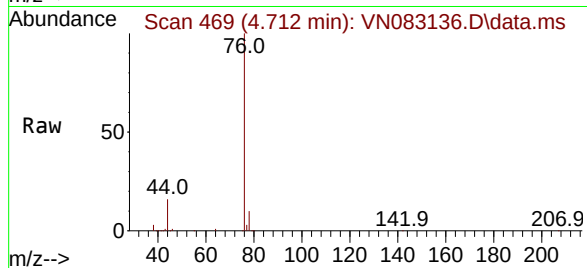
58 29.0 21.8 32.6





#17
Carbon Disulfide
Concen: 48.094 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

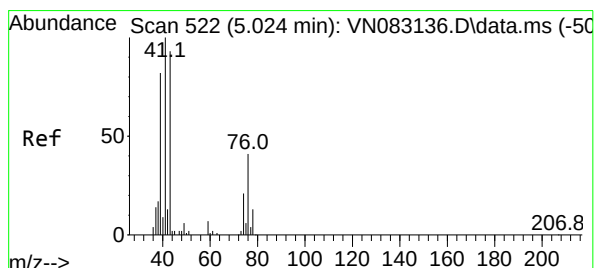
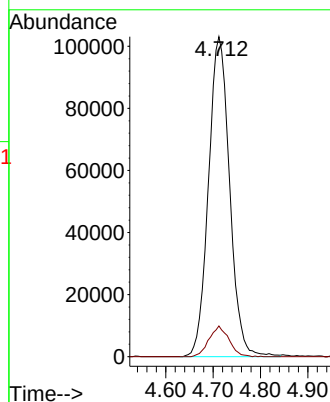
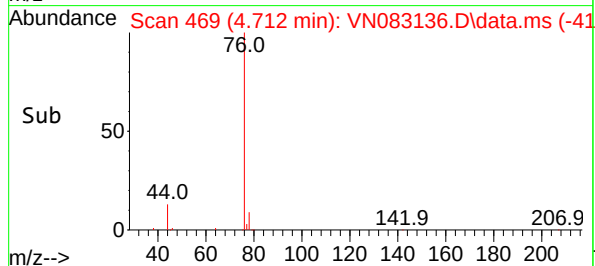
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 76 Resp: 319654
Ion Ratio Lower Upper
76 100
78 9.6 7.2 10.8

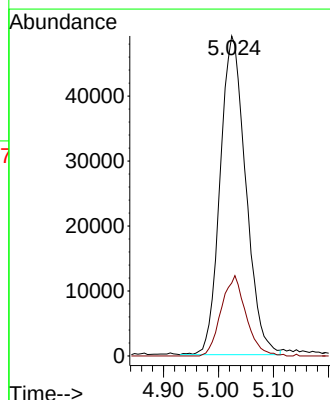
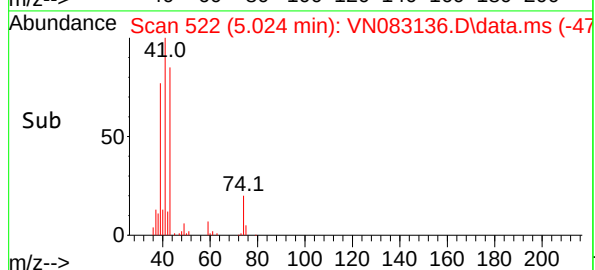
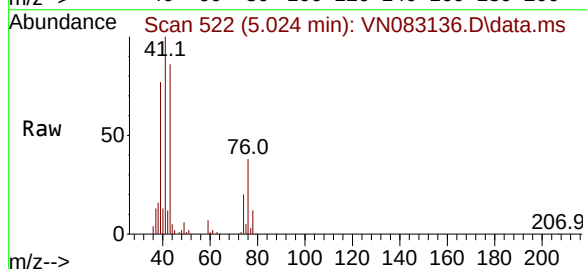
Manual Integrations
APPROVED

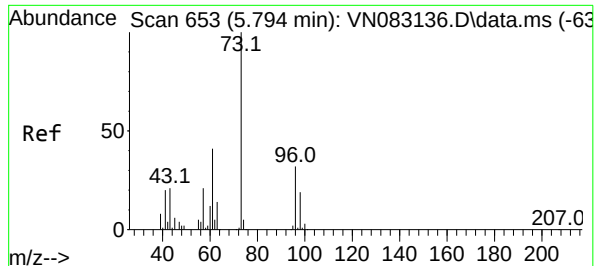
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#18
Methyl Acetate
Concen: 46.765 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 43 Resp: 159022
Ion Ratio Lower Upper
43 100
74 24.3 16.3 24.5





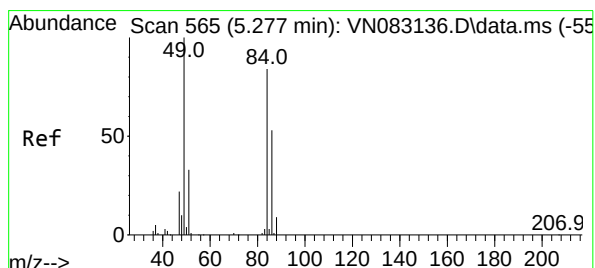
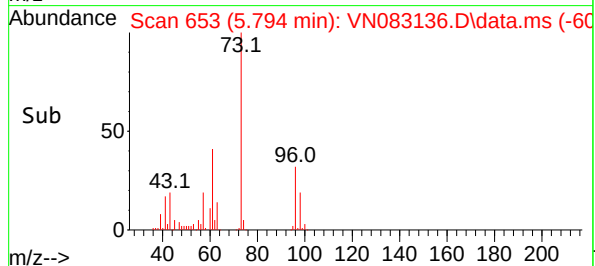
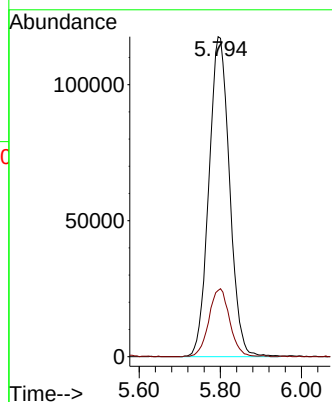
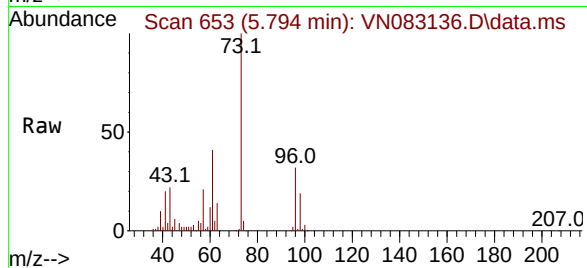
#19
Methyl tert-butyl Ether
Concen: 50.676 ug/l
RT: 5.794 min Scan# 653
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 73 Resp: 415489
Ion Ratio Lower Upper
73 100
57 20.7 17.9 26.9

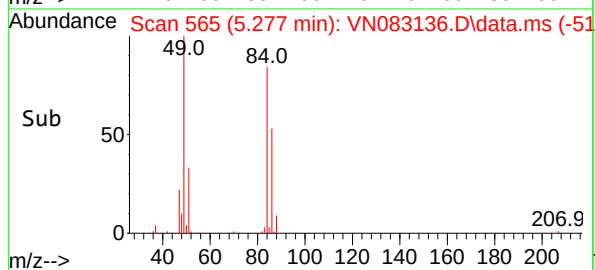
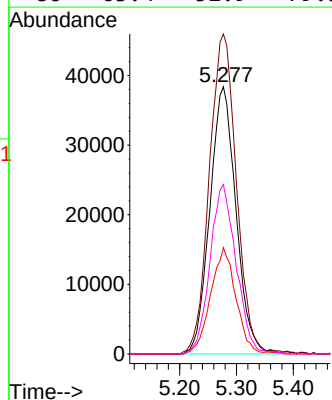
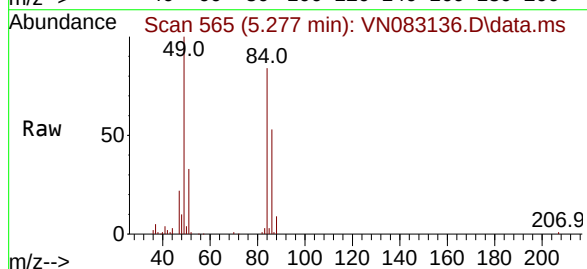
Manual Integrations
APPROVED

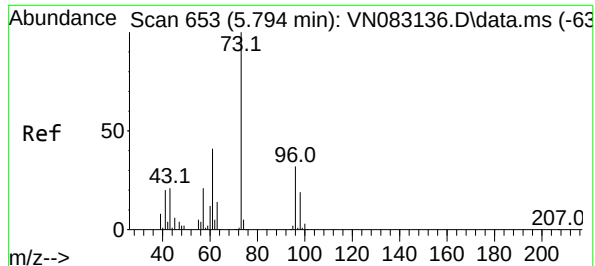
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#20
Methylene Chloride
Concen: 46.744 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

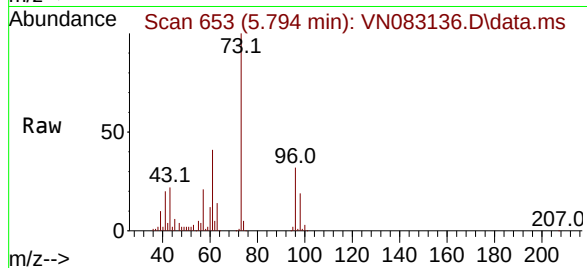
Tgt Ion: 84 Resp: 122780
Ion Ratio Lower Upper
84 100
49 119.8 119.6 179.4
51 39.8 34.8 52.2
86 63.4 52.9 79.3





#21
trans-1,2-Dichloroethene
Concen: 50.127 ug/l
RT: 5.794 min Scan# 653
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

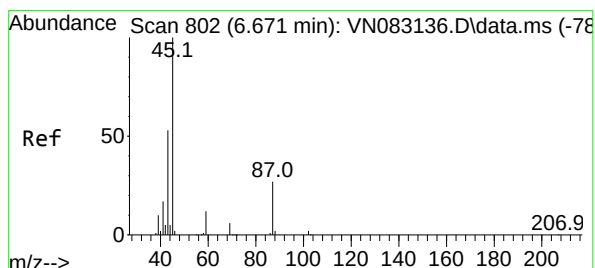
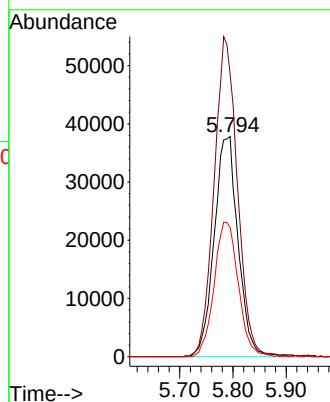
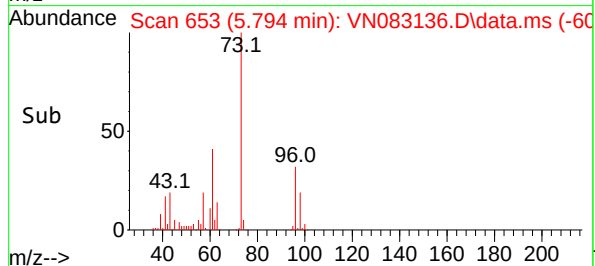
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 96 Resp: 11768
Ion Ratio Lower Upper
96 100
61 128.4 123.4 185.2
98 58.7 49.3 73.9

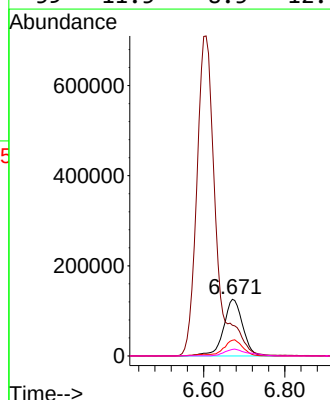
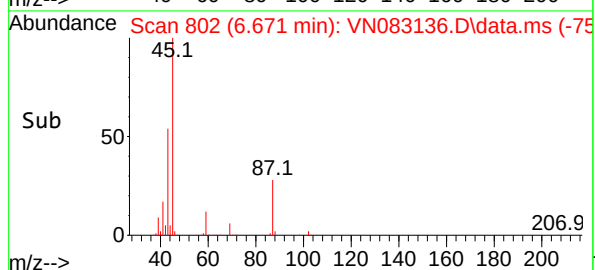
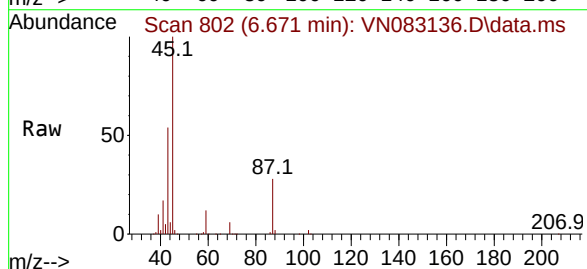
Manual Integrations
APPROVED

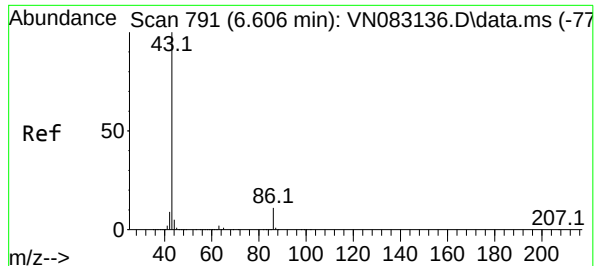
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#22
Diisopropyl ether
Concen: 50.987 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 45 Resp: 411409
Ion Ratio Lower Upper
45 100
43 52.8 44.0 66.0
87 27.7 19.7 29.5
59 11.5 8.5 12.7





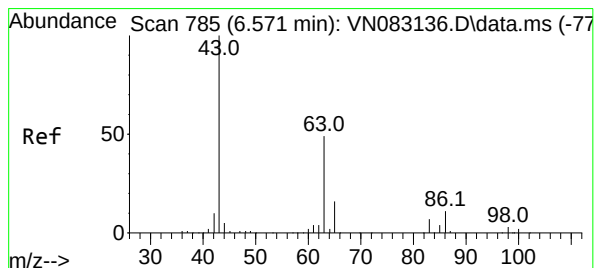
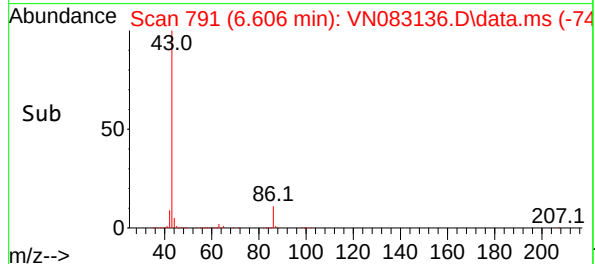
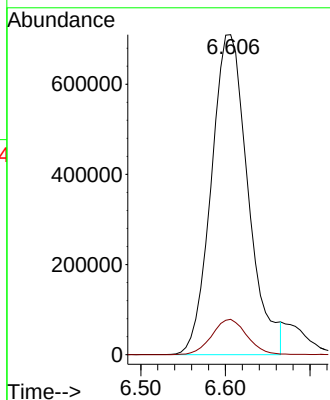
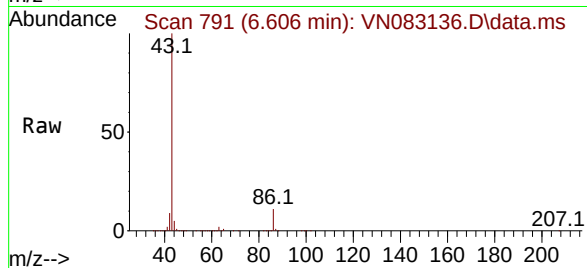
#23
Vinyl Acetate
Concen: 259.716 ug/l m
RT: 6.606 min Scan# 791
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 214759
Ion Ratio Lower Upper
43 100
86 11.0 7.3 10.9

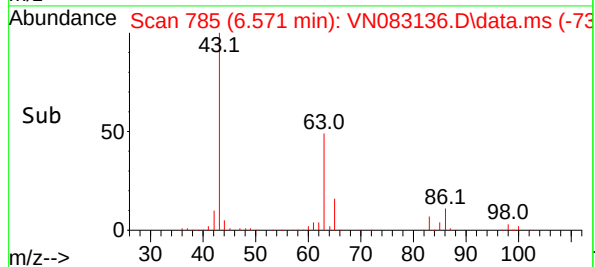
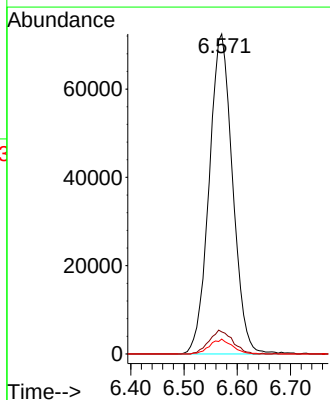
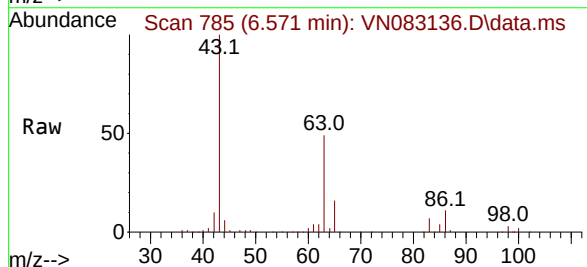
Manual Integrations
APPROVED

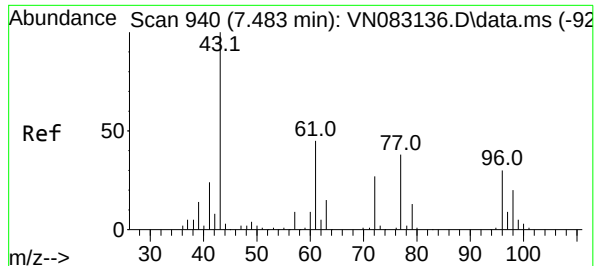
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#24
1,1-Dichloroethane
Concen: 50.493 ug/l
RT: 6.571 min Scan# 785
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 63 Resp: 222071
Ion Ratio Lower Upper
63 100
98 6.9 3.3 9.9
100 4.6 2.0 6.0





#25

2-Butanone

Concen: 249.591 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 437392

Ion Ratio Lower Upper

43 100

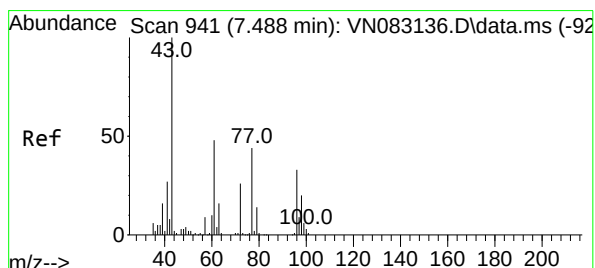
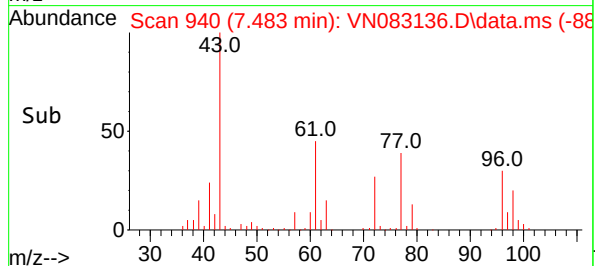
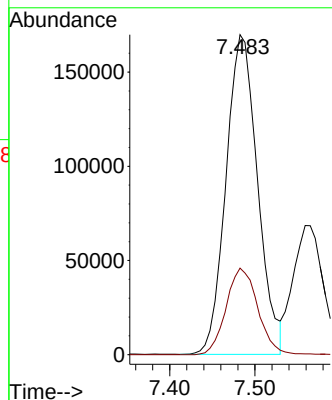
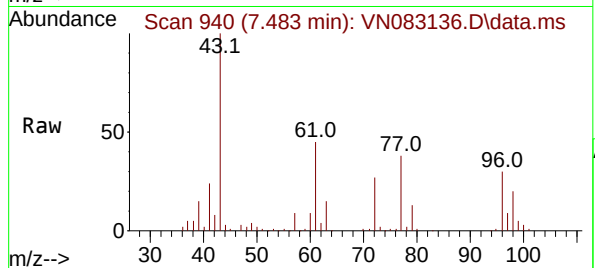
72 27.1 18.2 27.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#26

2,2-Dichloropropane

Concen: 51.336 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.000 min

Lab File: VN083136.D

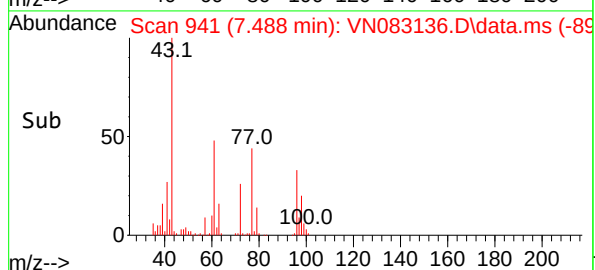
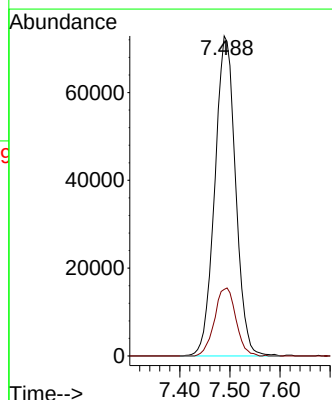
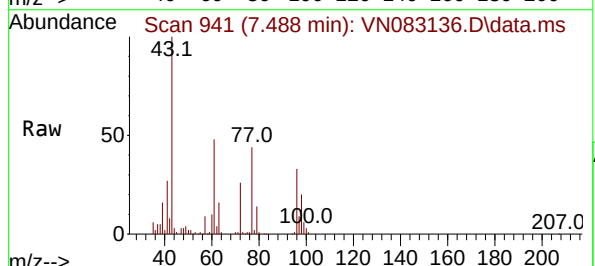
Acq: 07 Aug 2024 10:58

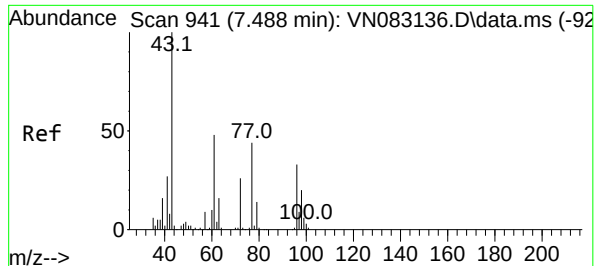
Tgt Ion: 77 Resp: 209679

Ion Ratio Lower Upper

77 100

97 21.9 10.3 30.9





#27

cis-1,2-Dichloroethene

Concen: 49.809 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 96 Resp: 141110

Ion Ratio Lower Upper

96 100

61 150.4 0.0 329.6

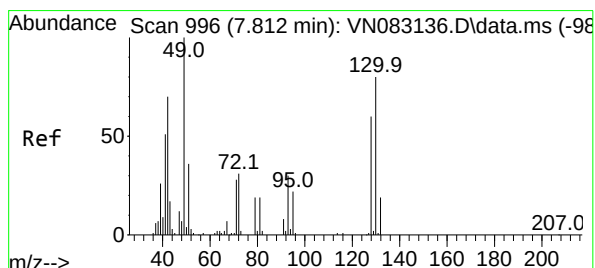
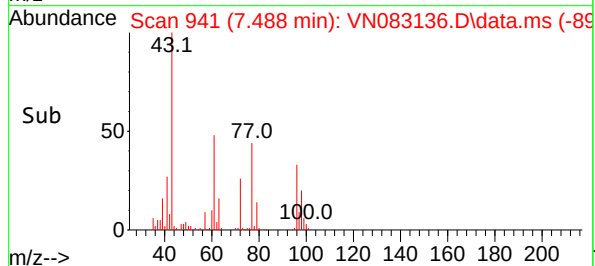
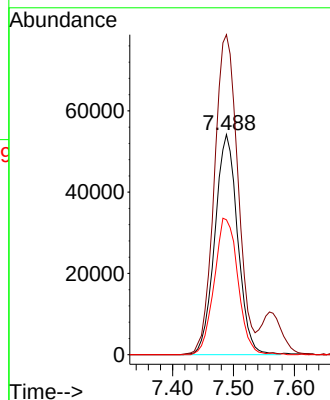
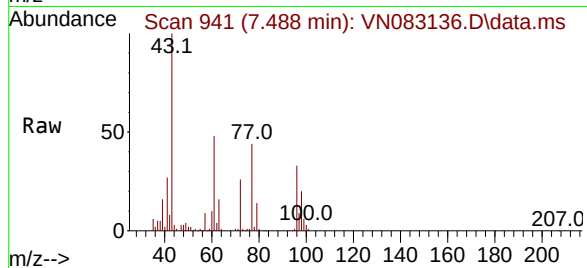
98 64.5 0.0 128.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#28

Bromochloromethane

Concen: 50.041 ug/l

RT: 7.812 min Scan# 996

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

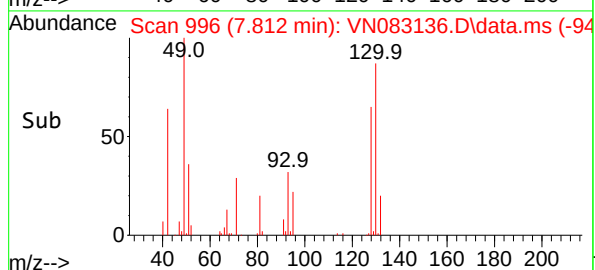
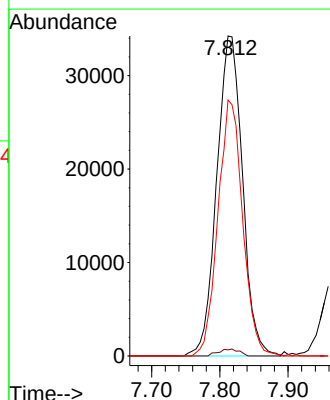
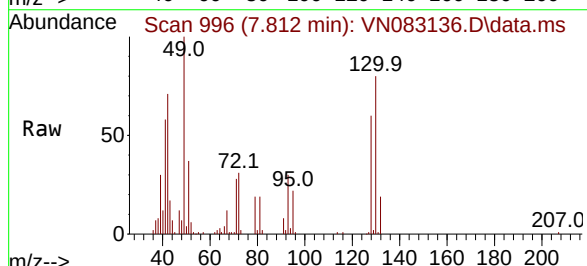
Tgt Ion: 49 Resp: 89942

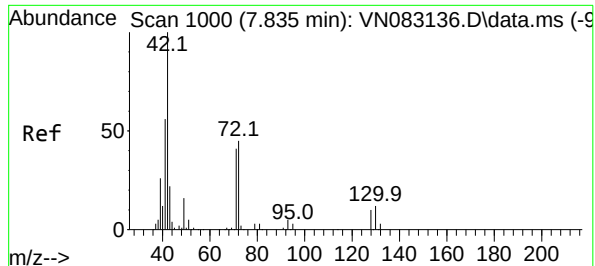
Ion Ratio Lower Upper

49 100

129 1.8 0.0 3.8

130 76.7 50.5 75.7#





#29

Tetrahydrofuran

Concen: 252.334 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 42 Resp: 28585

Ion Ratio Lower Upper

42 100

72 44.6 30.0 45.0

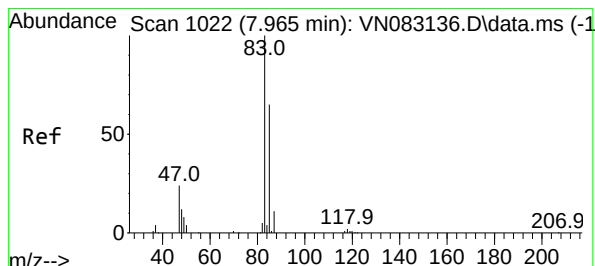
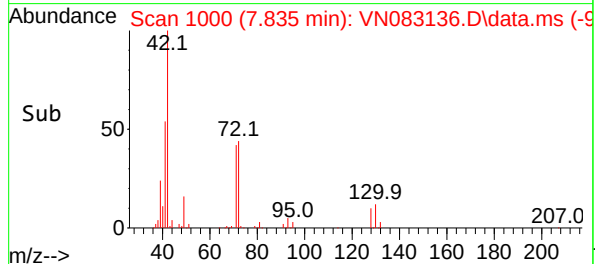
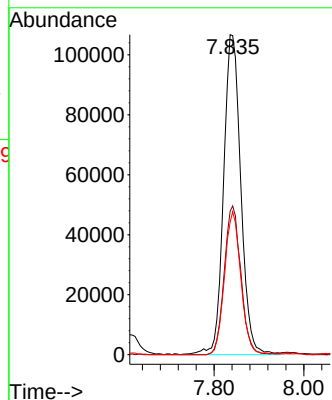
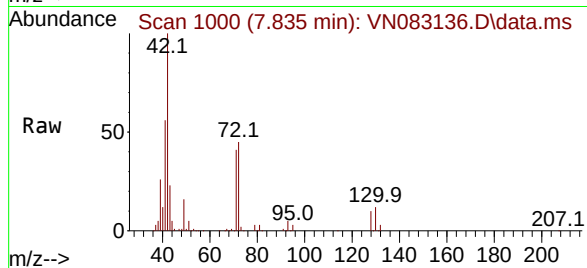
71 42.4 28.3 42.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#30

Chloroform

Concen: 50.978 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.000 min

Lab File: VN083136.D

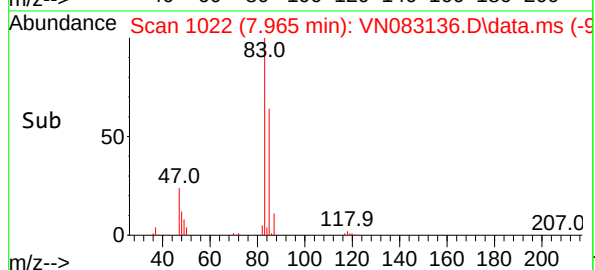
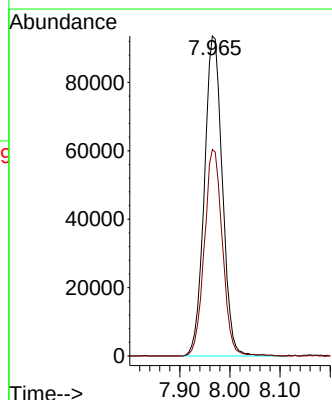
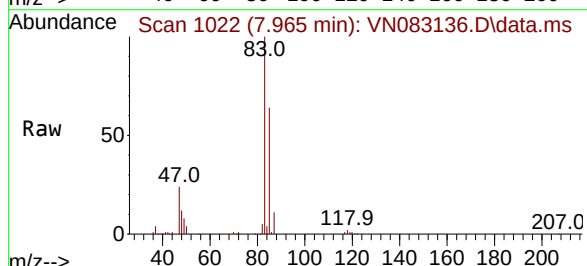
Acq: 07 Aug 2024 10:58

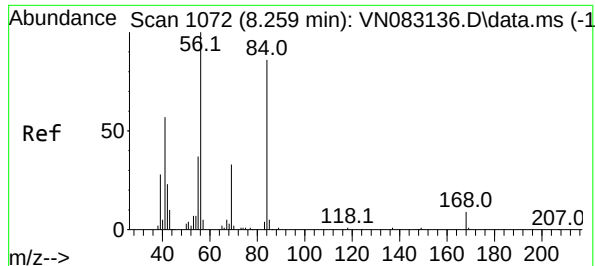
Tgt Ion: 83 Resp: 232933

Ion Ratio Lower Upper

83 100

85 64.5 50.9 76.3





#31

Cyclohexane

Concen: 46.565 ug/l

RT: 8.259 min Scan# 1072

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 20127

Ion Ratio Lower Upper

56 100

69 32.7 24.5 36.7

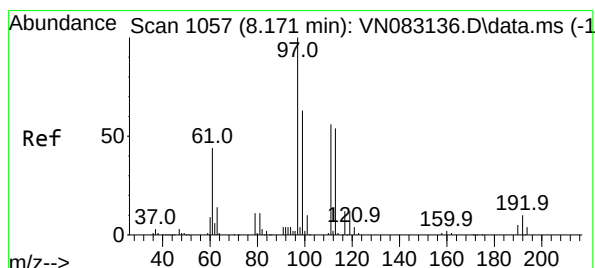
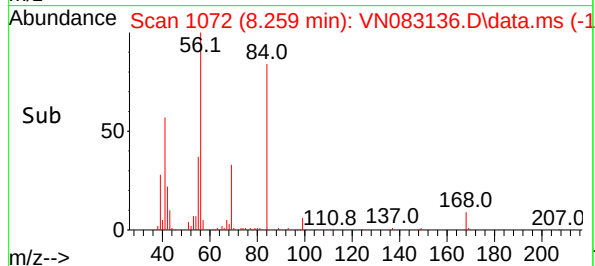
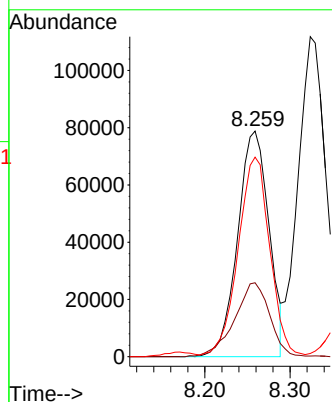
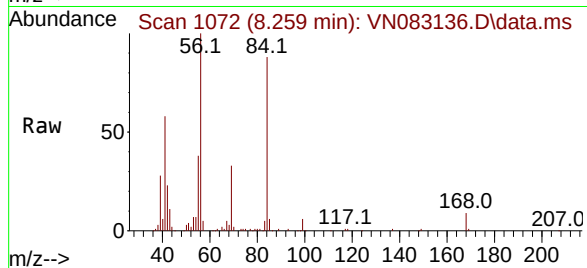
84 86.4 66.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#32

1,1,1-Trichloroethane

Concen: 50.935 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

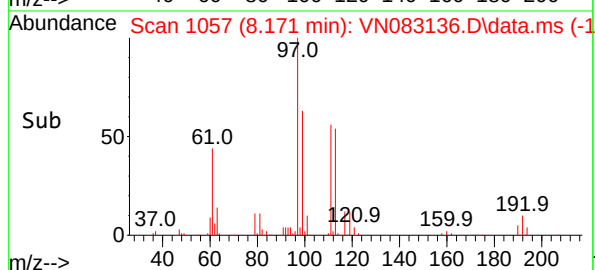
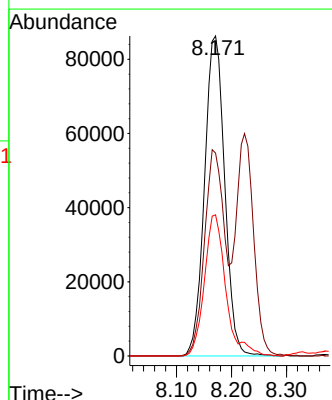
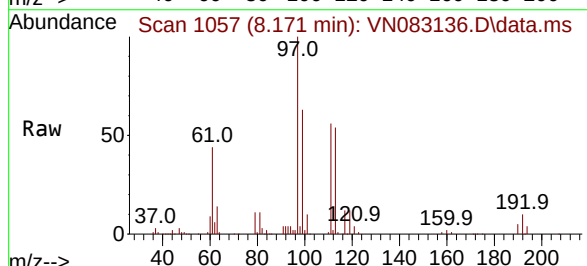
Tgt Ion: 97 Resp: 220296

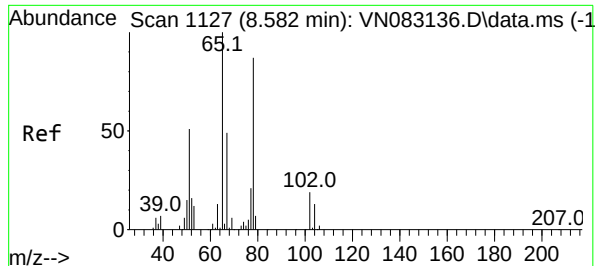
Ion Ratio Lower Upper

97 100

99 62.5 52.0 78.0

61 46.6 42.1 63.1





#33

1,2-Dichloroethane-d4

Concen: 52.348 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 65 Resp: 152684

Ion Ratio Lower Upper

65 100

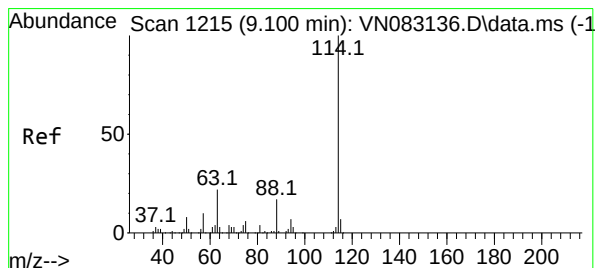
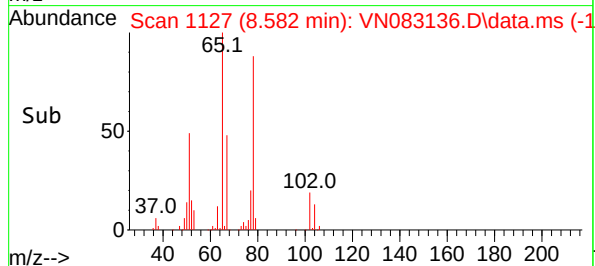
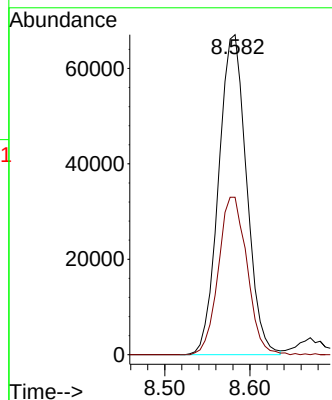
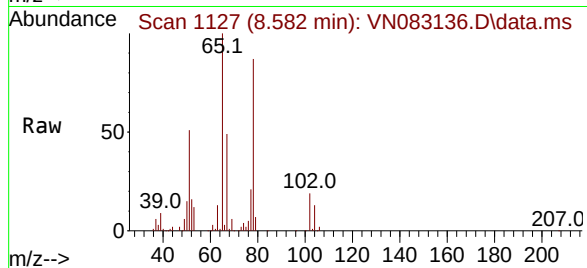
67 50.5 0.0 104.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

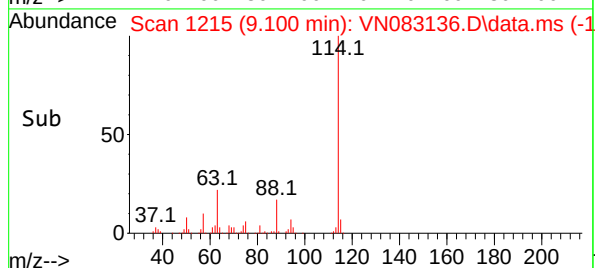
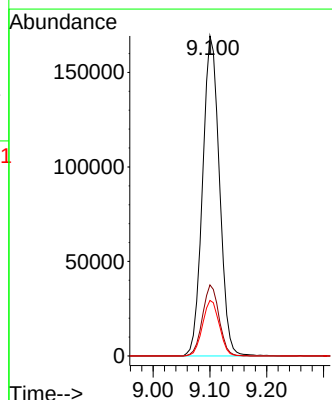
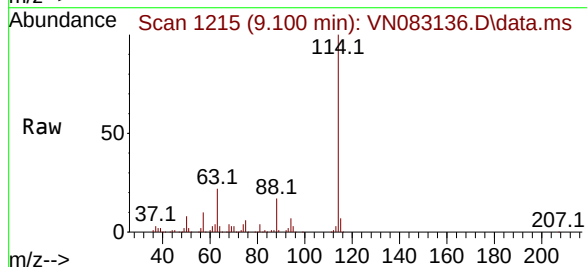
Tgt Ion:114 Resp: 348813

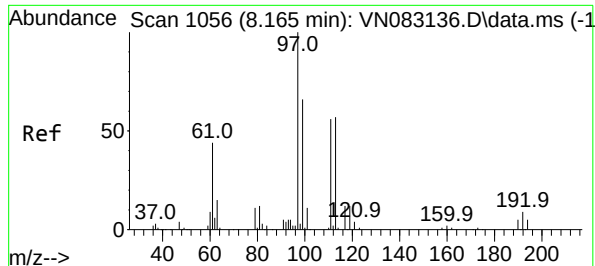
Ion Ratio Lower Upper

114 100

63 22.2 0.0 44.6

88 17.3 0.0 31.4





#35

Dibromofluoromethane

Concen: 53.216 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:113 Resp: 11586

Ion Ratio Lower Upper

113 100

111 101.9 82.4 123.6

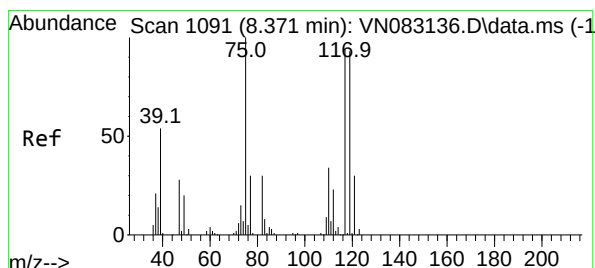
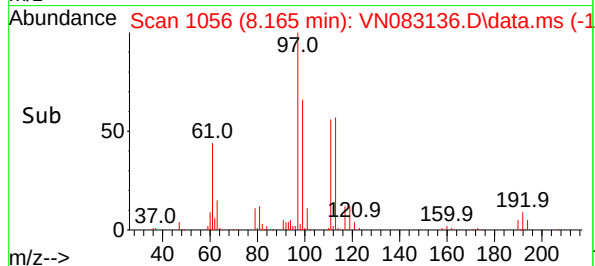
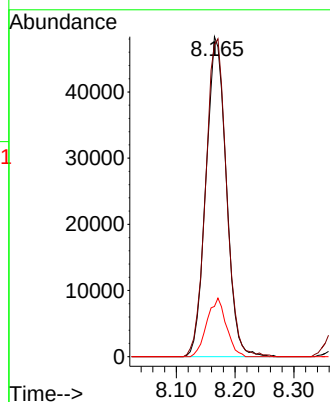
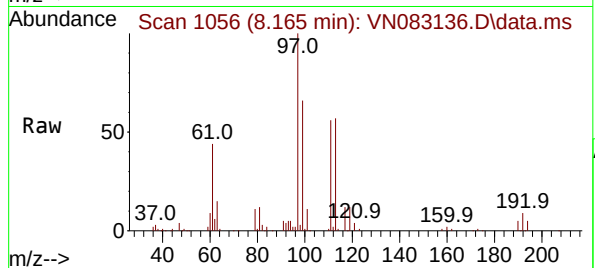
192 17.5 14.9 22.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#36

1,1-Dichloropropene

Concen: 50.349 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

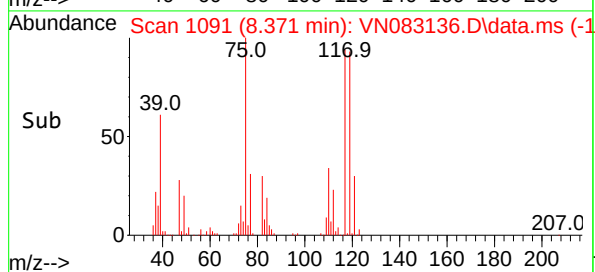
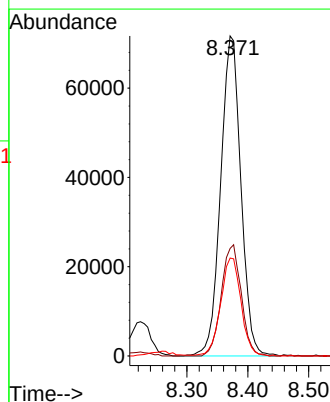
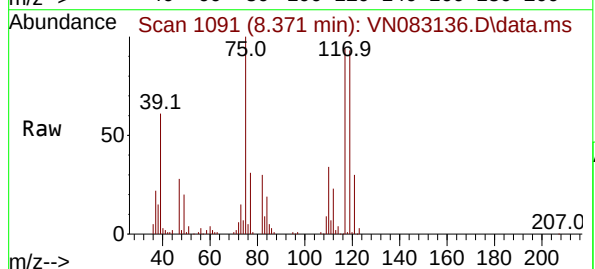
Tgt Ion: 75 Resp: 165826

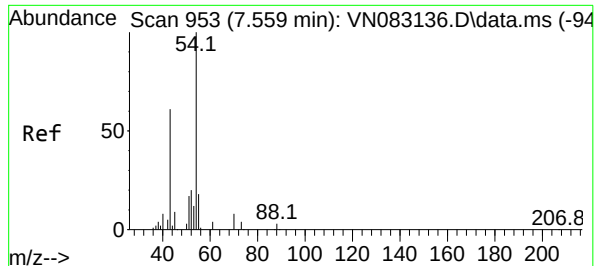
Ion Ratio Lower Upper

75 100

110 34.2 16.3 48.9

77 30.8 24.6 37.0





#37

Ethyl Acetate

Concen: 47.213 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 17410

Ion Ratio Lower Upper

43 100

61 14.4 9.3 13.9

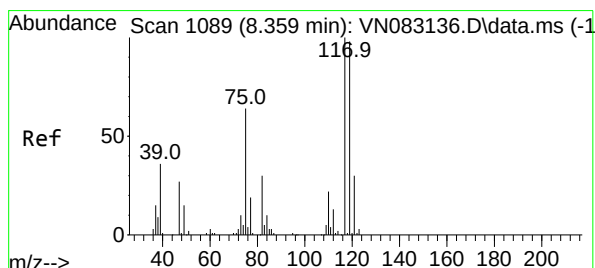
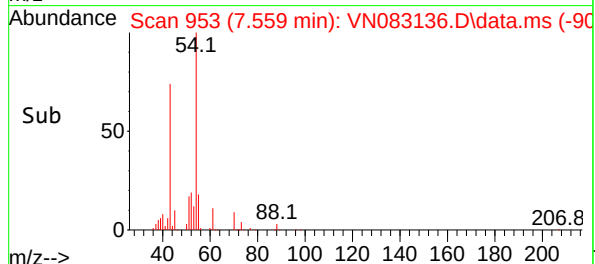
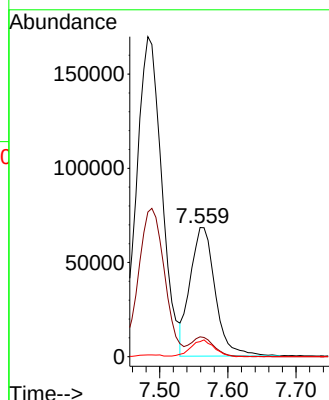
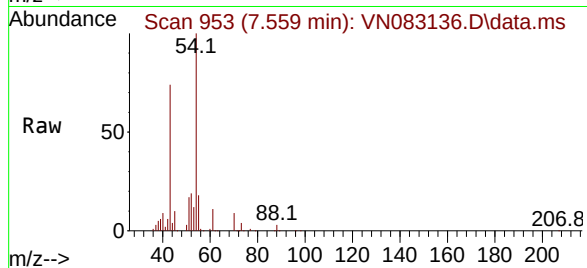
70 12.1 7.0 10.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#38

Carbon Tetrachloride

Concen: 51.315 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

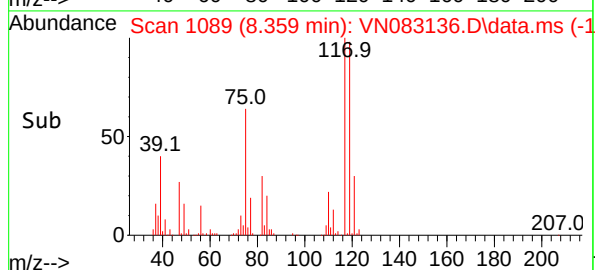
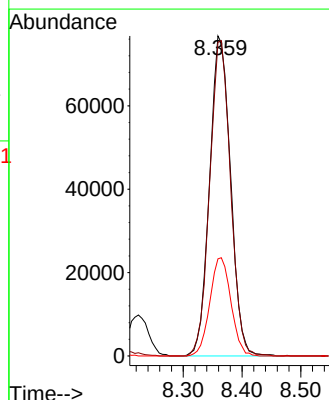
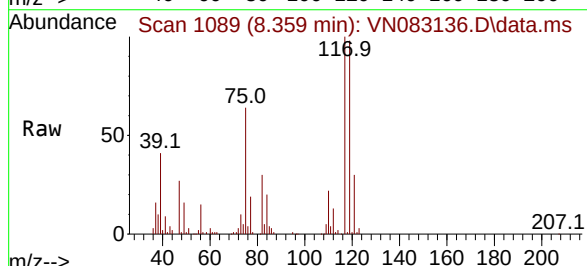
Tgt Ion:117 Resp: 190357

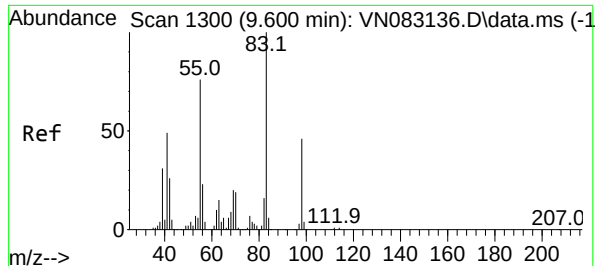
Ion Ratio Lower Upper

117 100

119 98.0 74.9 112.3

121 30.3 24.3 36.5





#39

Methylcyclohexane

Concen: 51.461 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

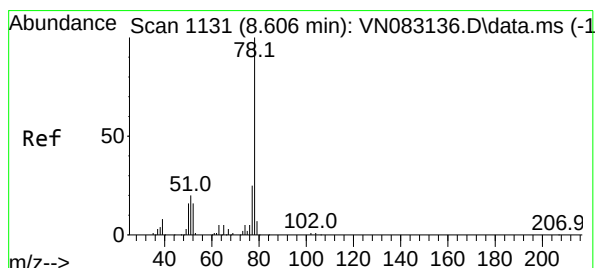
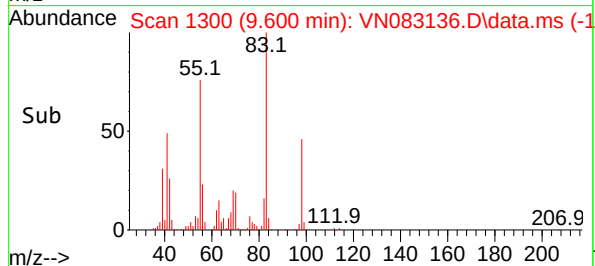
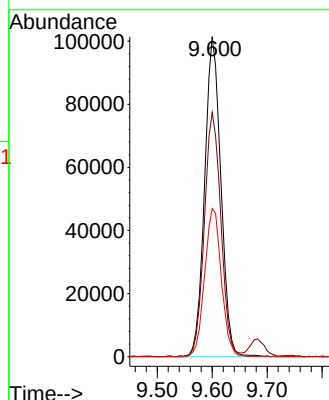
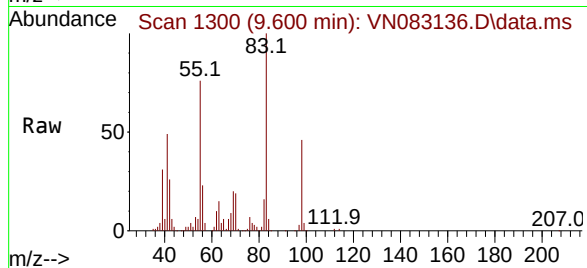
Tgt Ion:	83	Resp:	20817
Ion Ratio	Lower	Upper	
83	100		
55	76.0	66.4	99.6
98	46.3	40.7	61.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#40

Benzene

Concen: 51.436 ug/l

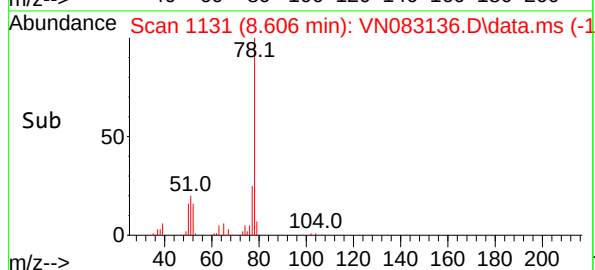
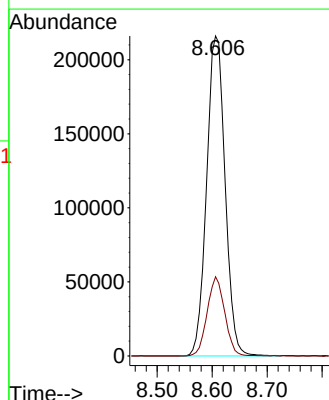
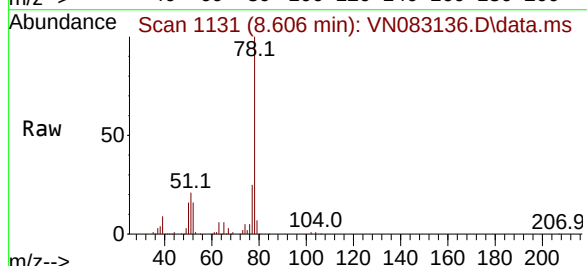
RT: 8.606 min Scan# 1131

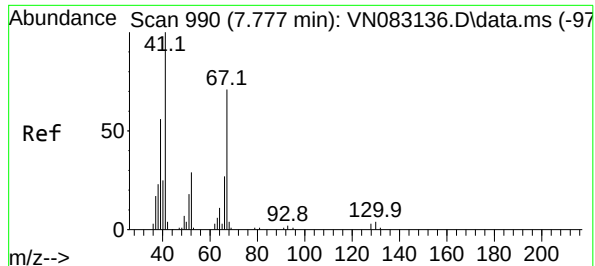
Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

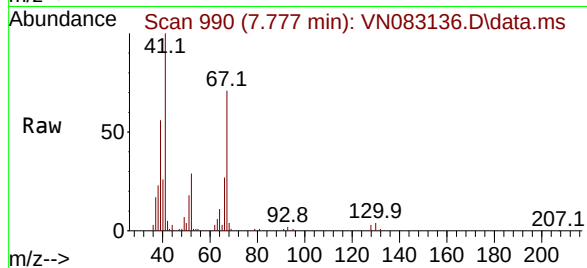
Tgt Ion:	78	Resp:	504662
Ion Ratio	Lower	Upper	
78	100		
77	24.8	19.0	28.4





#41
Methacrylonitrile
Concen: 47.154 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

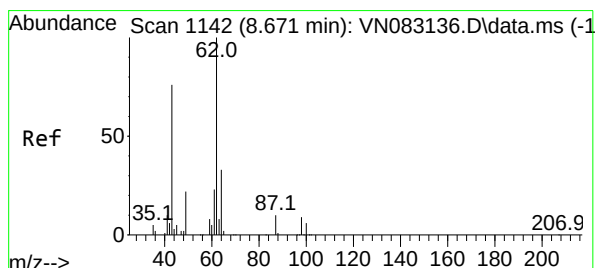
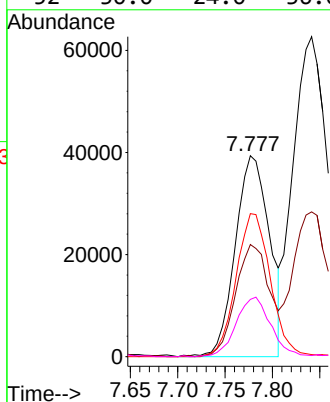
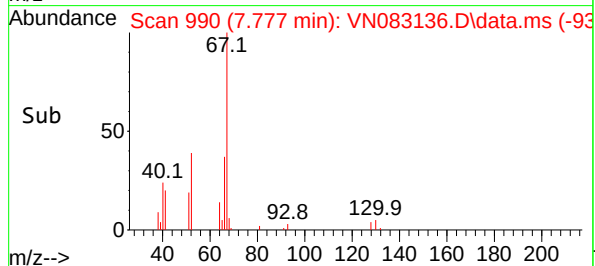
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 41 Resp: 98869
Ion Ratio Lower Upper
41 100
39 55.4 45.5 68.3
67 72.0 50.5 75.7
52 30.0 24.0 36.0

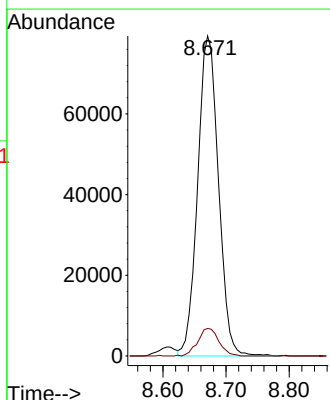
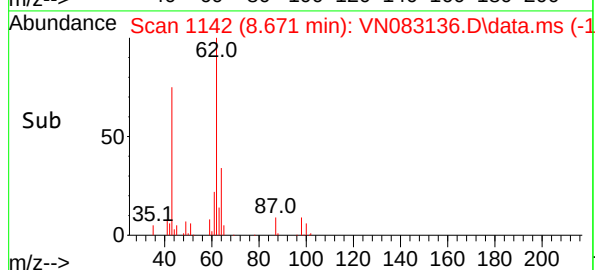
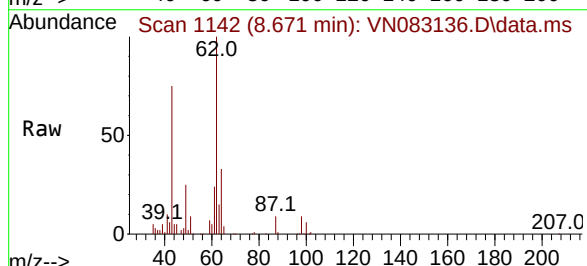
Manual Integrations
APPROVED

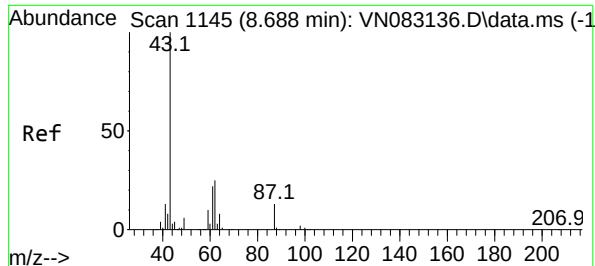
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#42
1,2-Dichloroethane
Concen: 50.765 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 62 Resp: 181440
Ion Ratio Lower Upper
62 100
98 8.7 0.0 15.8





#43

Isopropyl Acetate

Concen: 50.219 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN083136.D

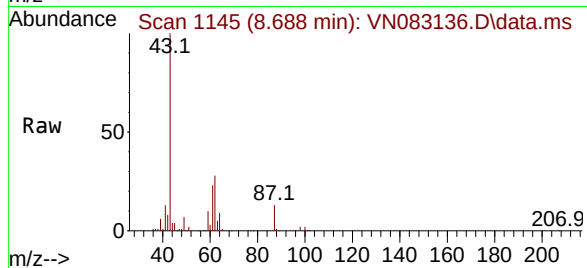
Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050



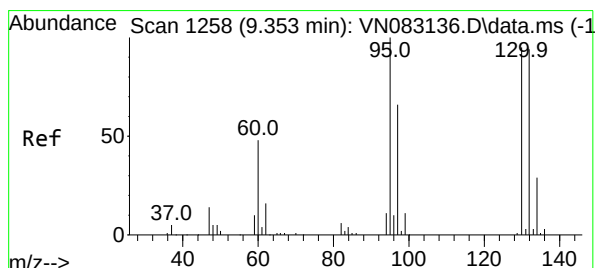
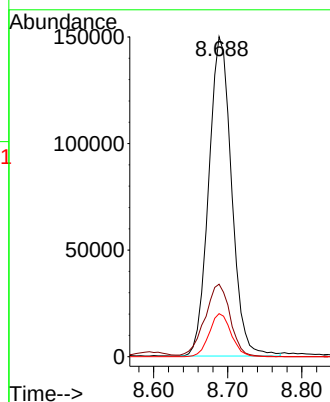
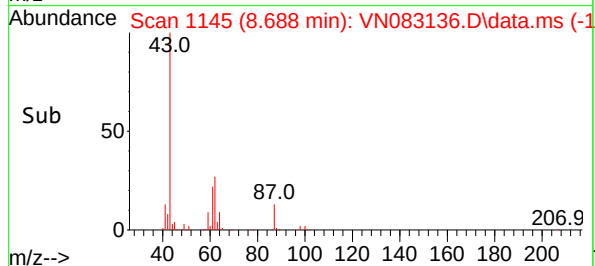
Tgt Ion: 43	Resp: 32108
Ion Ratio	Lower Upper
43	100
61	25.3 17.8 26.6
87	13.0 8.2 12.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#44

Trichloroethene

Concen: 51.383 ug/l

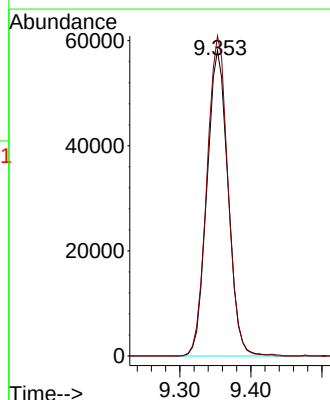
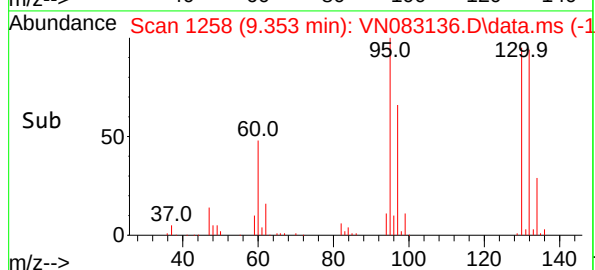
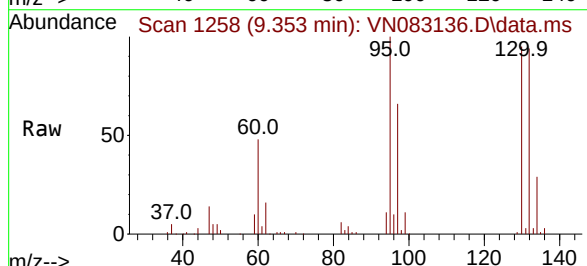
RT: 9.353 min Scan# 1258

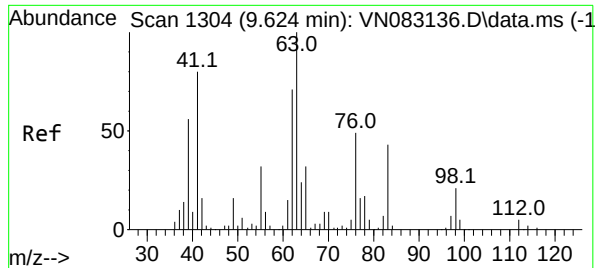
Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Tgt Ion:130	Resp: 119998
Ion Ratio	Lower Upper
130	100
95	104.7 0.0 197.8





#45

1,2-Dichloropropane

Concen: 51.747 ug/l

RT: 9.624 min Scan# 1304

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 63 Resp: 120518

Ion Ratio Lower Upper

63 100

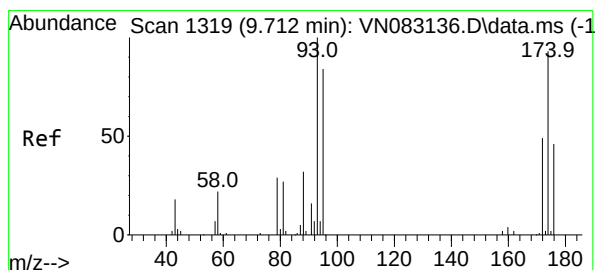
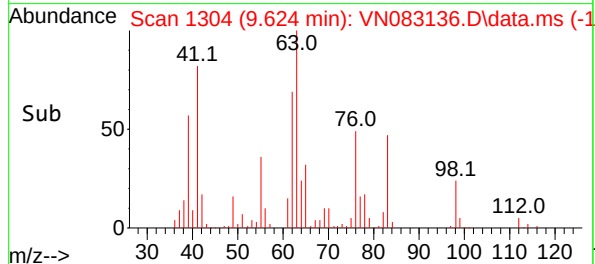
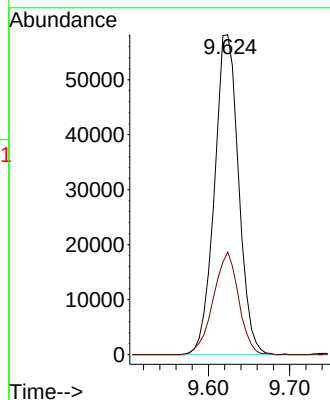
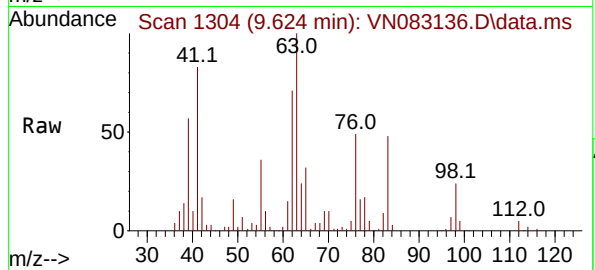
65 32.1 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#46

Dibromomethane

Concen: 52.436 ug/l

RT: 9.712 min Scan# 1319

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

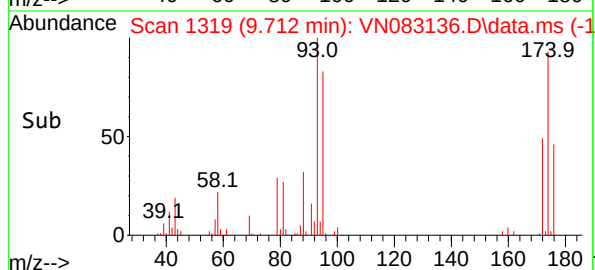
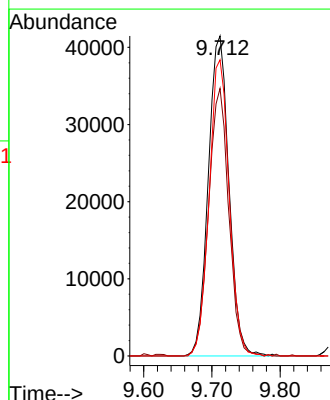
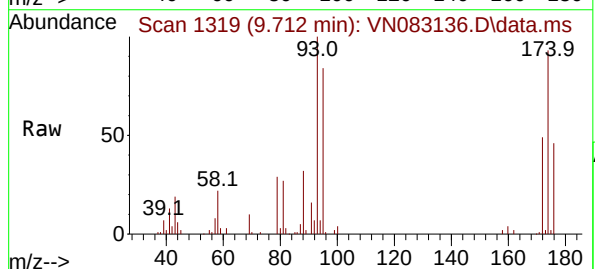
Tgt Ion: 93 Resp: 87411

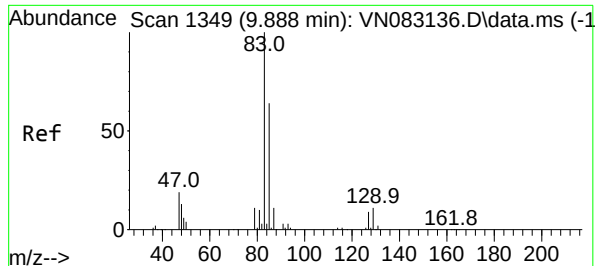
Ion Ratio Lower Upper

93 100

95 81.7 65.8 98.6

174 90.1 71.7 107.5





#47

Bromodichloromethane

Concen: 50.245 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 188069

Ion Ratio Lower Upper

83 100

85 64.3 51.1 76.7

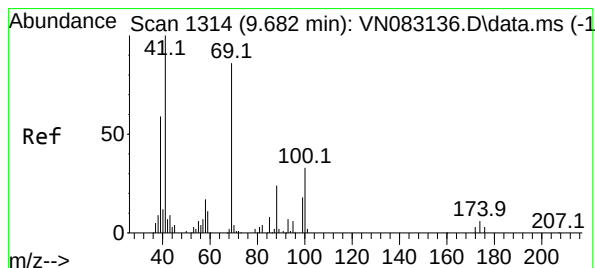
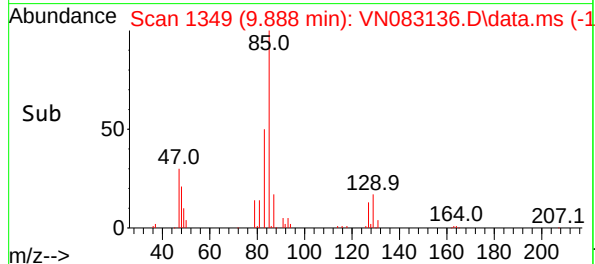
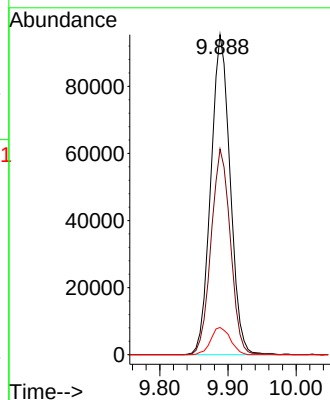
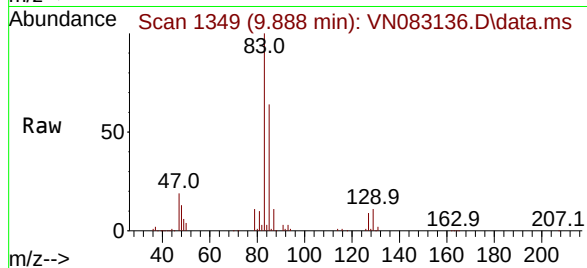
127 8.5 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#48

Methyl methacrylate

Concen: 48.631 ug/l

RT: 9.682 min Scan# 1314

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

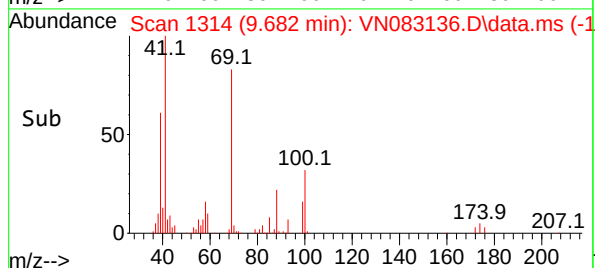
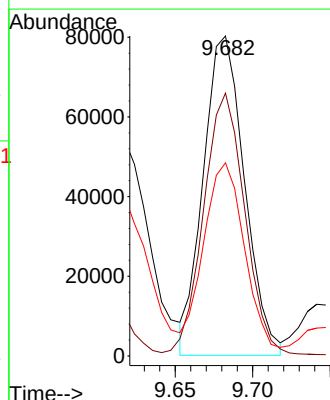
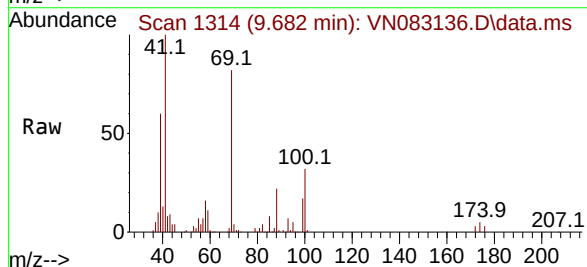
Tgt Ion: 41 Resp: 148264

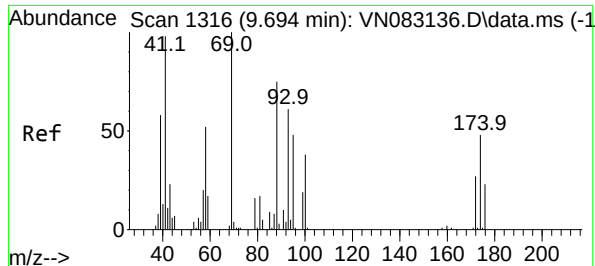
Ion Ratio Lower Upper

41 100

69 82.5 56.3 84.5

39 61.0 50.3 75.5





#49

1,4-Dioxane

Concen: 1036.917 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 88 Resp: 5703

Ion Ratio Lower Upper

88 100

43 29.1 27.8 41.8

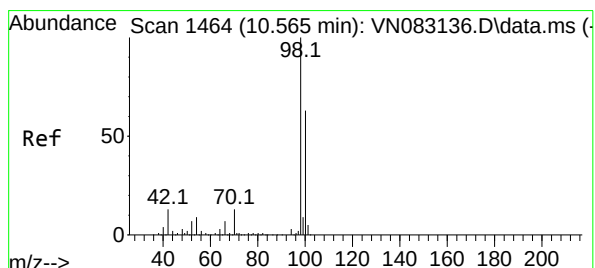
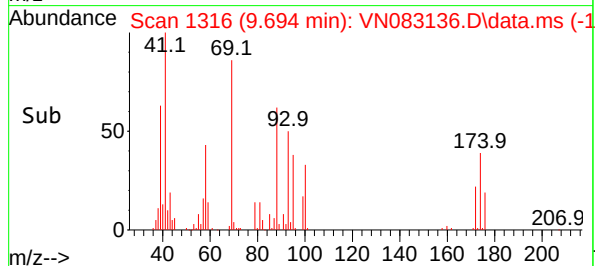
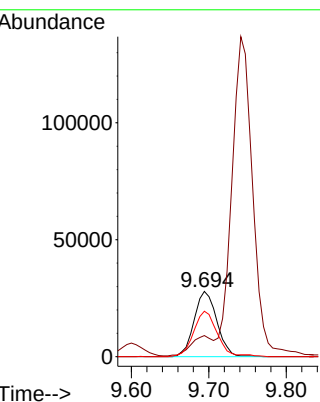
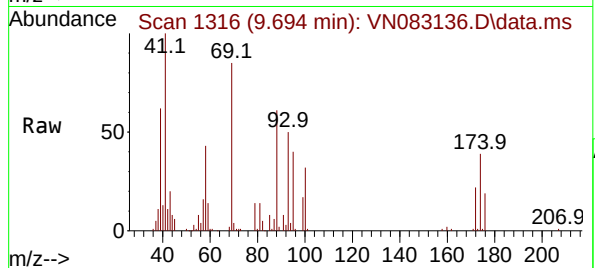
58 72.4 59.4 89.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#50

Toluene-d8

Concen: 54.174 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN083136.D

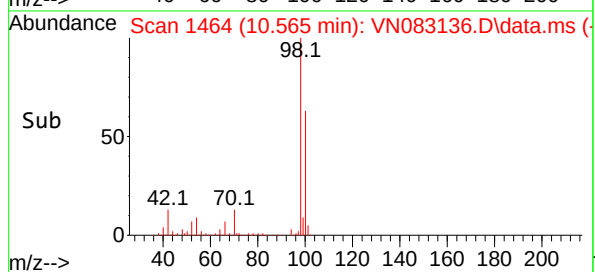
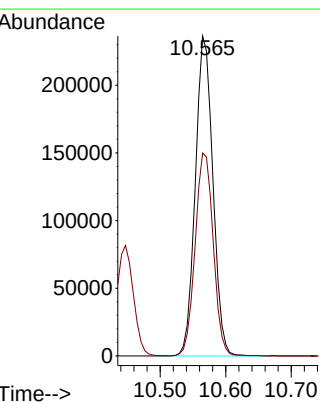
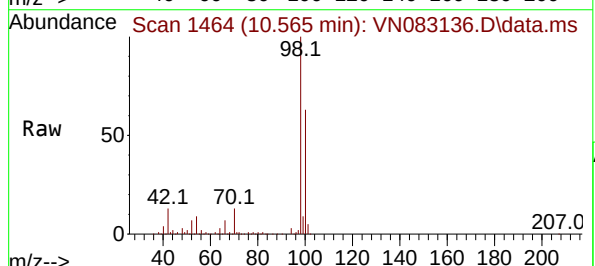
Acq: 07 Aug 2024 10:58

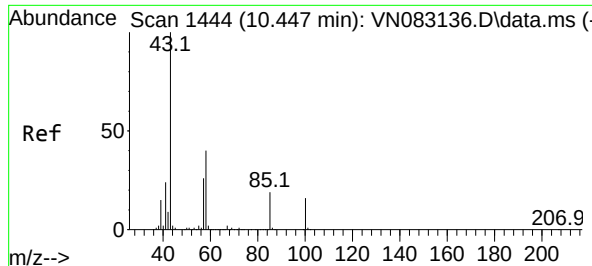
Tgt Ion: 98 Resp: 439976

Ion Ratio Lower Upper

98 100

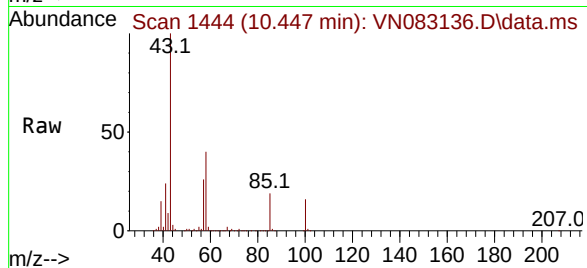
100 65.5 51.5 77.3





#51
4-Methyl-2-Pentanone
Concen: 258.493 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

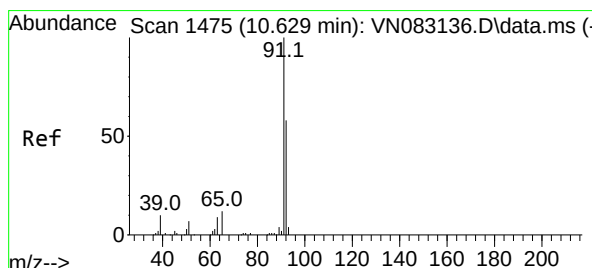
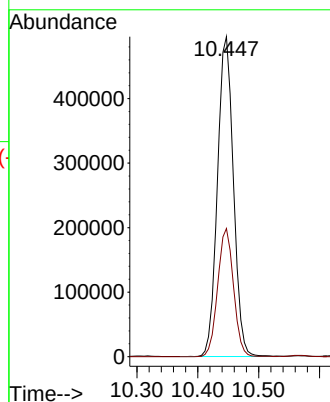
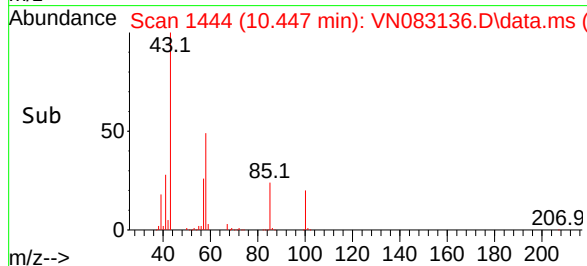
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 43 Resp: 901412
Ion Ratio Lower Upper
43 100
58 39.8 28.2 42.4

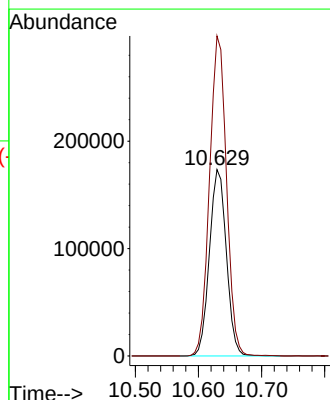
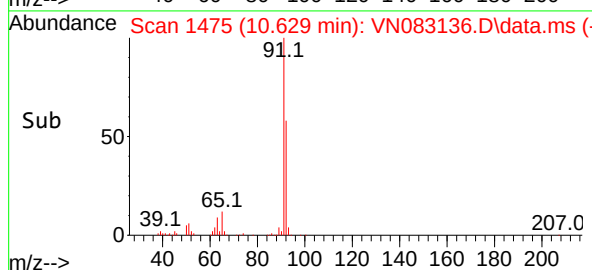
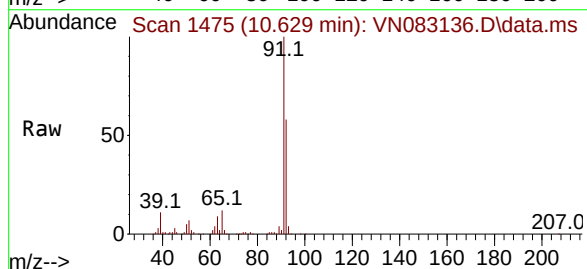
Manual Integrations
APPROVED

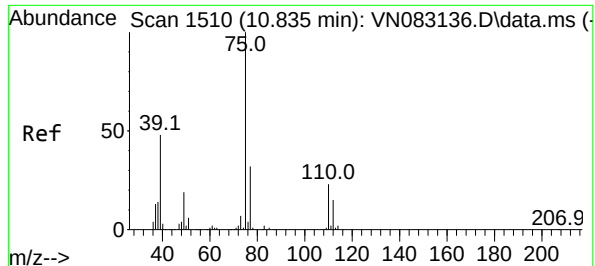
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#52
Toluene
Concen: 52.127 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

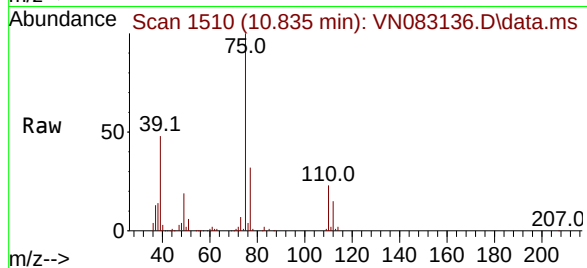
Tgt Ion: 92 Resp: 323148
Ion Ratio Lower Upper
92 100
91 172.1 139.4 209.0





#53
t-1,3-Dichloropropene
Concen: 54.205 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

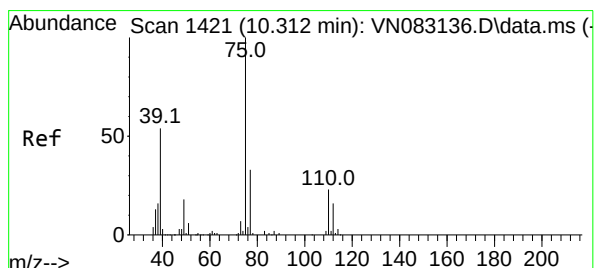
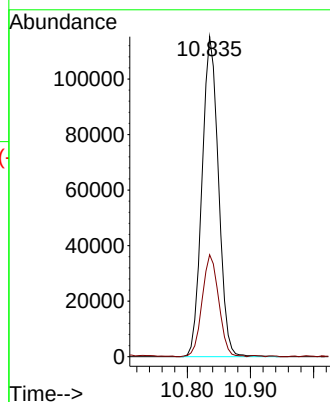
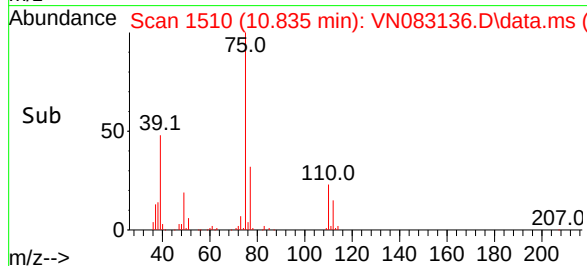
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 75 Resp: 20841
Ion Ratio Lower Upper
75 100
77 31.9 25.7 38.5

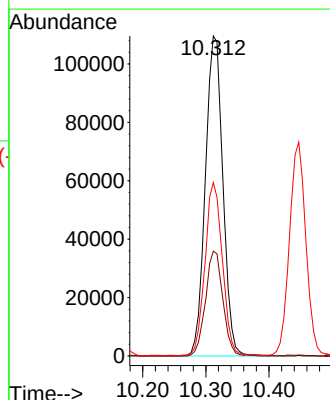
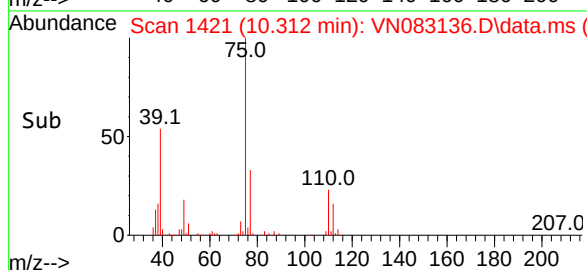
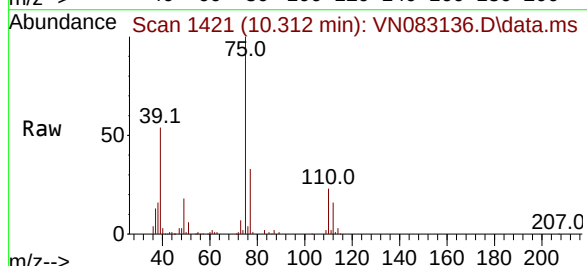
Manual Integrations
APPROVED

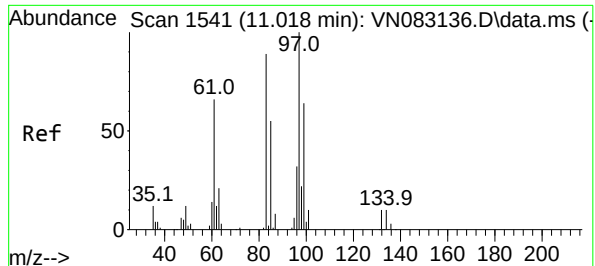
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#54
cis-1,3-Dichloropropene
Concen: 51.692 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

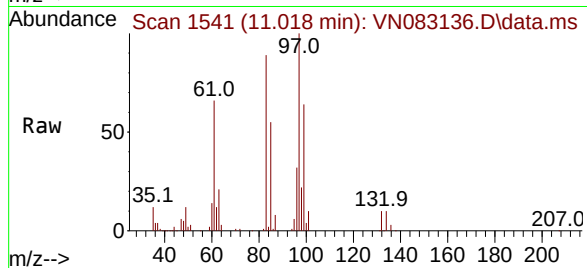
Tgt Ion: 75 Resp: 211396
Ion Ratio Lower Upper
75 100
77 32.8 24.3 36.5
39 54.0 50.5 75.7





#55
1,1,2-Trichloroethane
Concen: 52.387 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

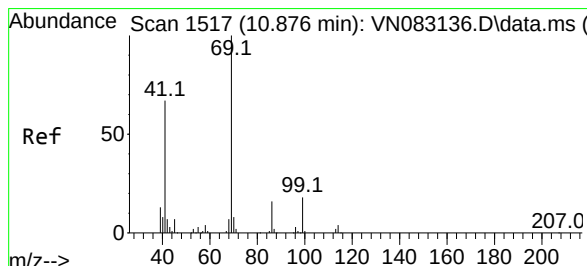
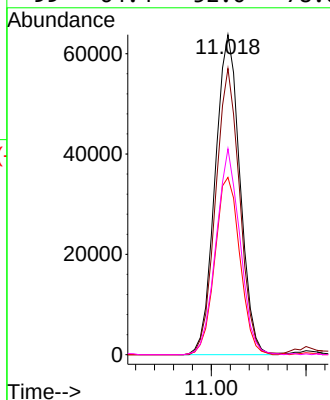
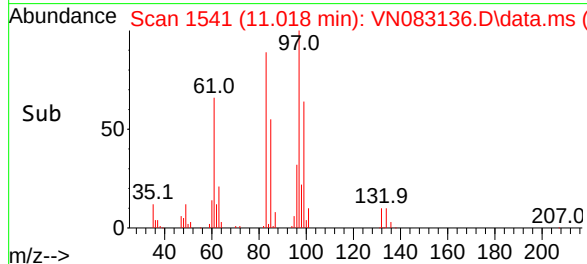
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 97 Resp: 116384
Ion Ratio Lower Upper
97 100
83 89.4 71.4 107.0
85 55.4 45.8 68.6
99 64.4 52.0 78.0

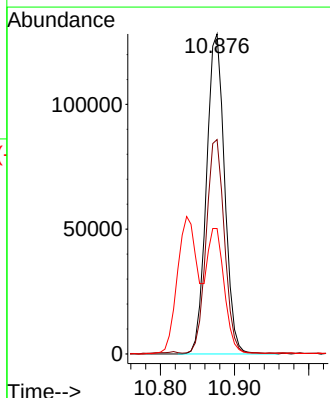
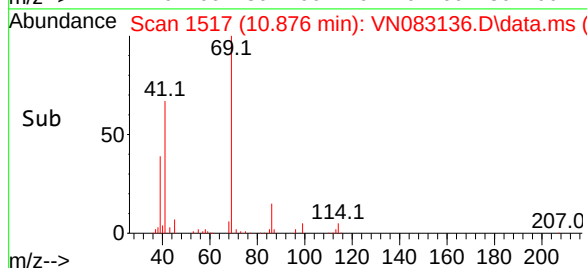
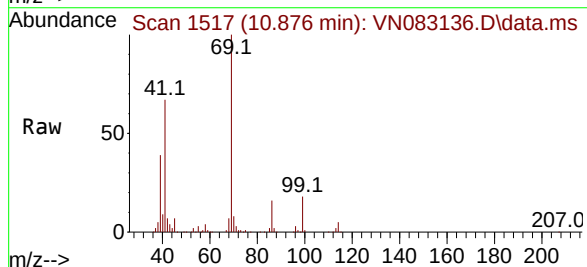
Manual Integrations
APPROVED

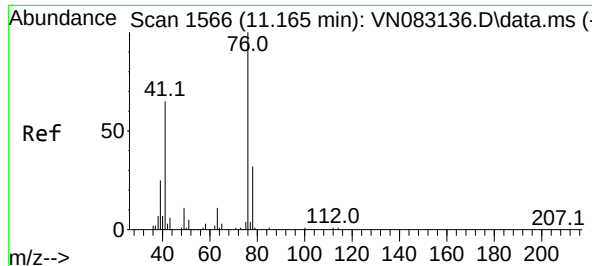
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#56
Ethyl methacrylate
Concen: 51.964 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 69 Resp: 217635
Ion Ratio Lower Upper
69 100
41 66.9 63.4 95.2
39 35.2 37.4 56.0#





#57

1,3-Dichloropropane

Concen: 52.133 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 20644

Ion Ratio Lower Upper

76 100

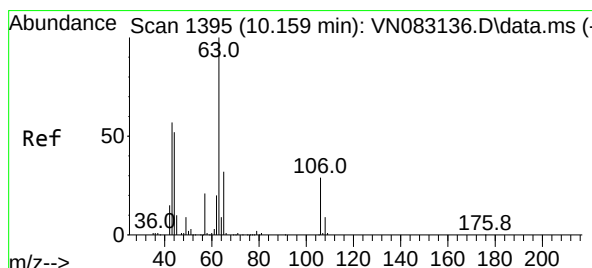
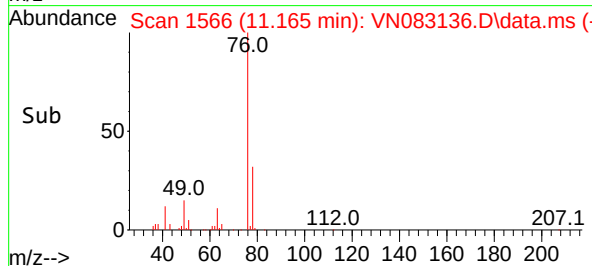
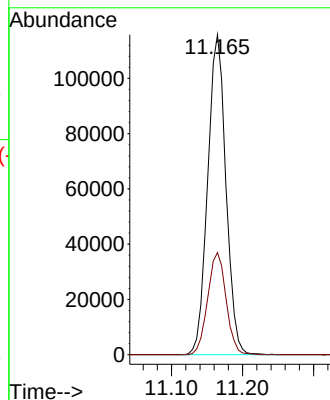
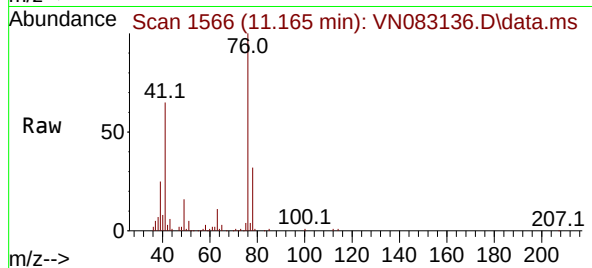
78 32.2 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#58

2-Chloroethyl Vinyl ether

Concen: 256.939 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN083136.D

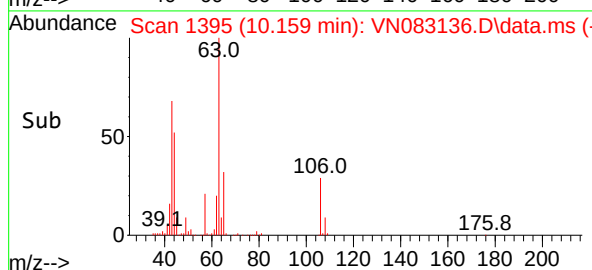
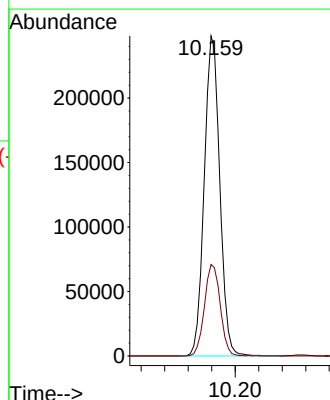
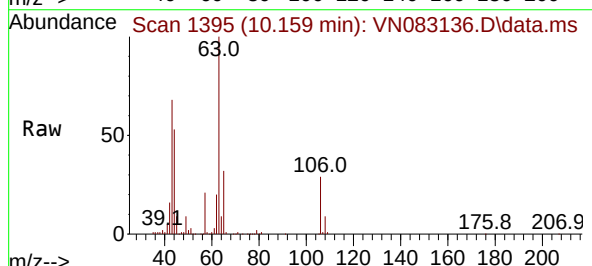
Acq: 07 Aug 2024 10:58

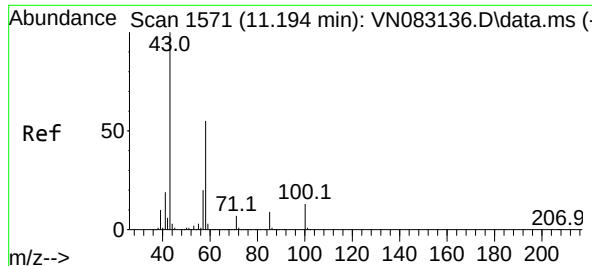
Tgt Ion: 63 Resp: 454871

Ion Ratio Lower Upper

63 100

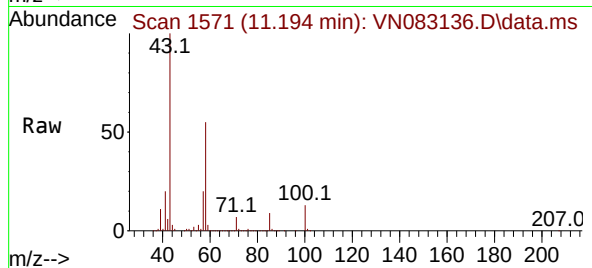
106 29.0 21.4 32.0





#59
2-Hexanone
Concen: 256.396 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

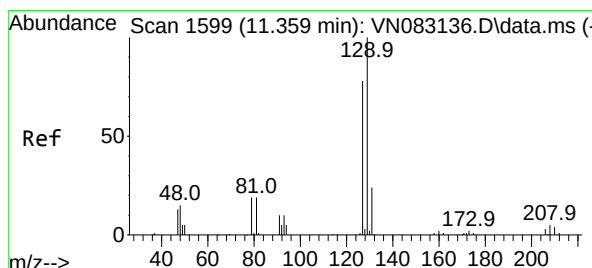
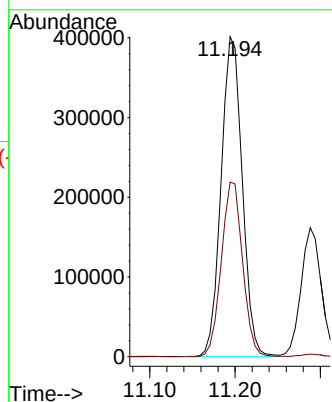
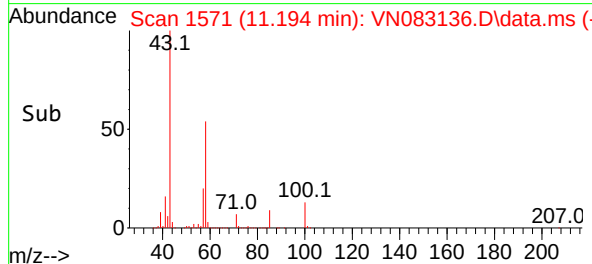
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 43 Resp: 691708
Ion Ratio Lower Upper
43 100
58 54.9 24.6 73.8

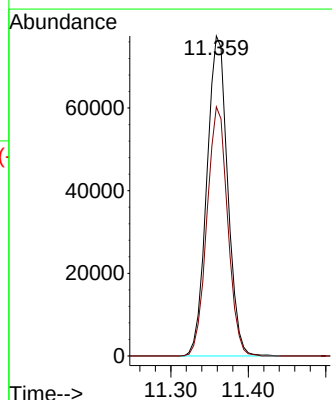
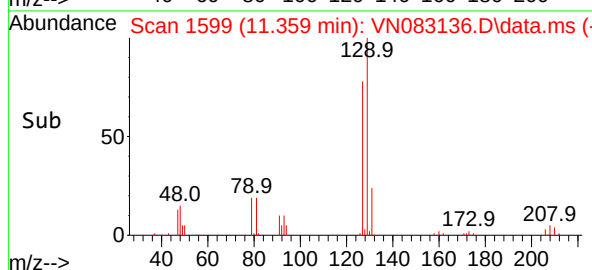
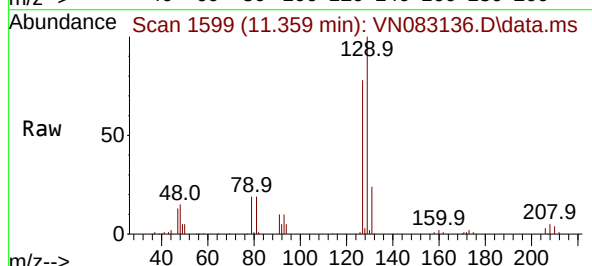
Manual Integrations
APPROVED

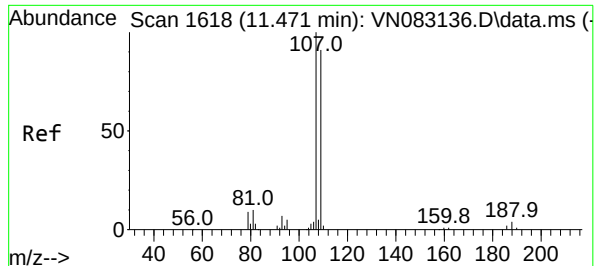
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#60
Dibromochloromethane
Concen: 53.688 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

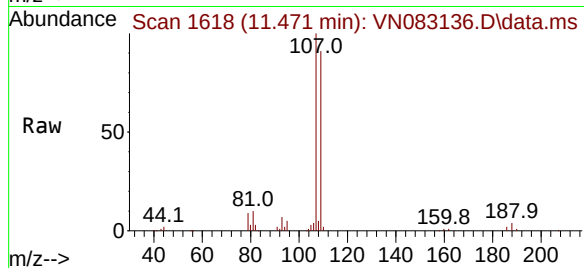
Tgt Ion:129 Resp: 144208
Ion Ratio Lower Upper
129 100
127 77.4 39.2 117.6





#61
1,2-Dibromoethane
Concen: 51.912 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

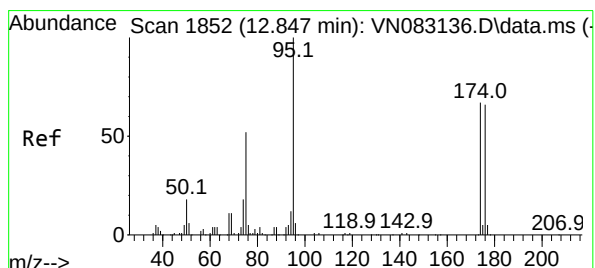
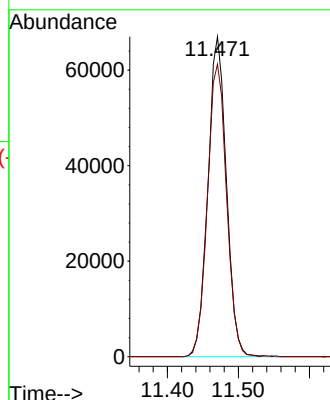
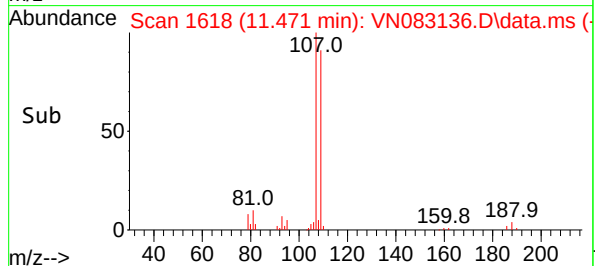
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion:107 Resp: 12115
Ion Ratio Lower Upper
107 100
109 94.4 73.7 110.5

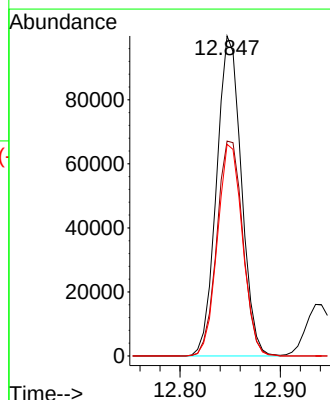
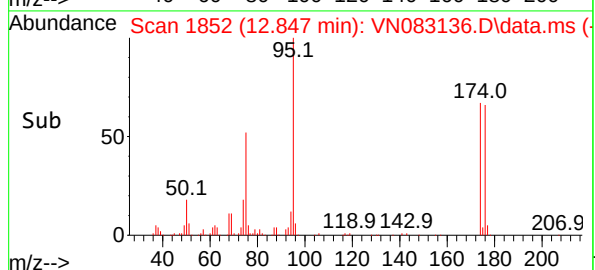
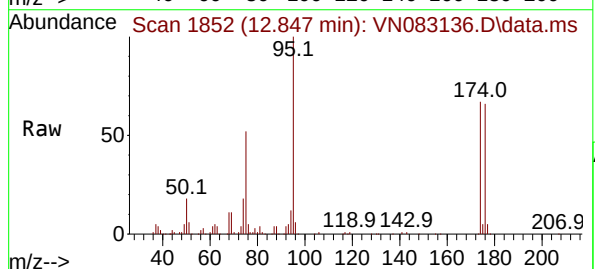
Manual Integrations
APPROVED

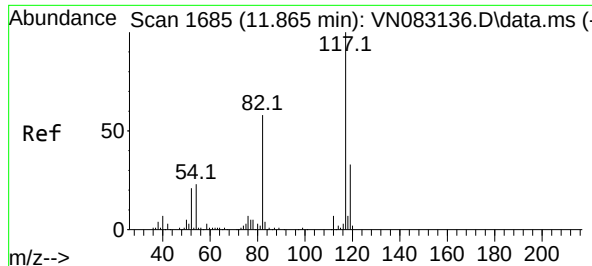
Reviewed By :John Carbone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#62
4-Bromofluorobenzene
Concen: 54.173 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

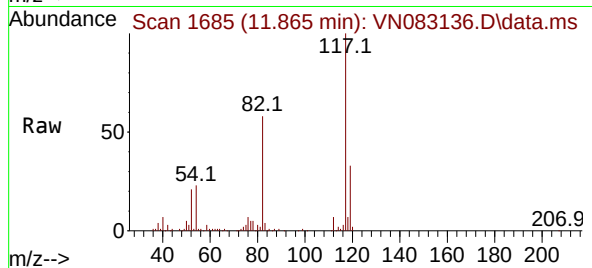
Tgt Ion: 95 Resp: 171524
Ion Ratio Lower Upper
95 100
174 70.0 0.0 159.2
176 66.9 0.0 147.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

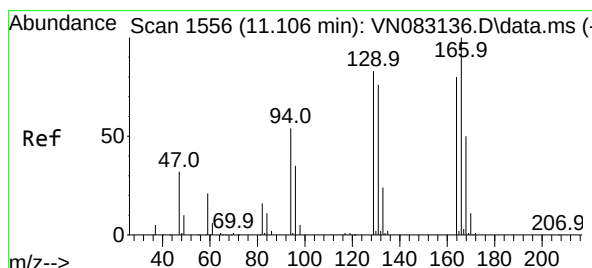
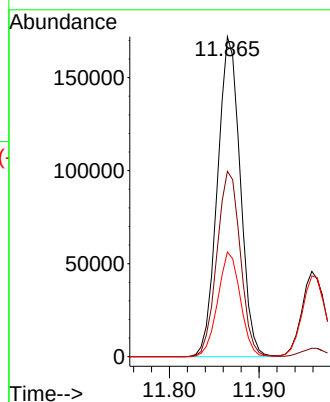
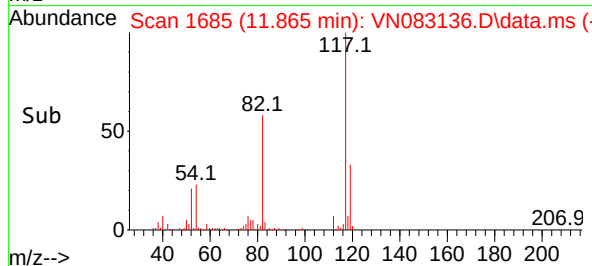
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion:117 Resp: 303118
Ion Ratio Lower Upper
117 100
82 57.9 47.5 71.3
119 32.7 25.6 38.4

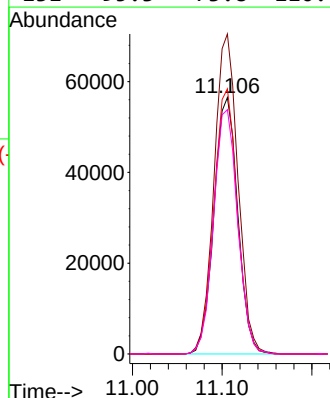
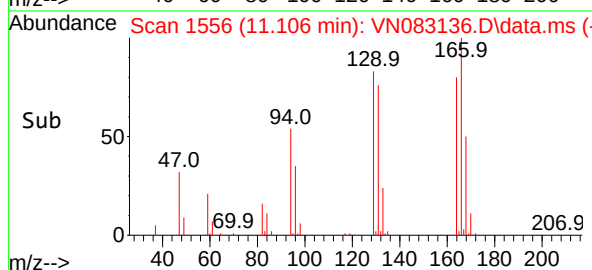
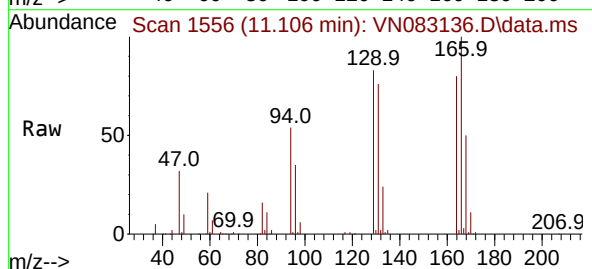
Manual Integrations
APPROVED

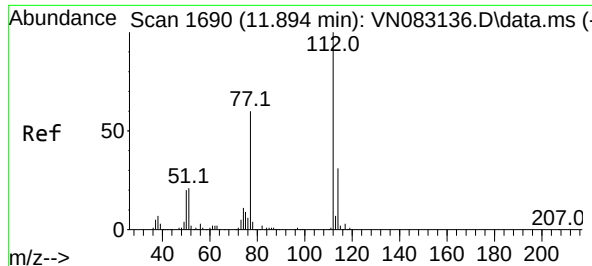
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#64
Tetrachloroethene
Concen: 51.784 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

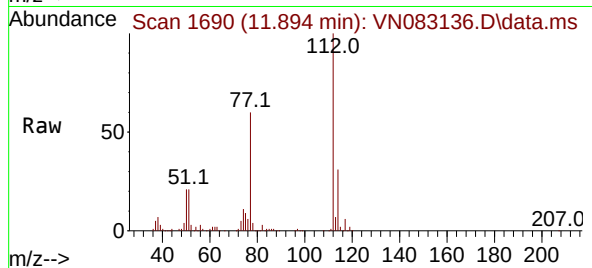
Tgt Ion:164 Resp: 103955
Ion Ratio Lower Upper
164 100
166 124.8 101.4 152.0
129 103.3 75.7 113.5
131 95.3 73.8 110.6





#65
Chlorobenzene
Concen: 51.679 ug/l
RT: 11.894 min Scan# 1690
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

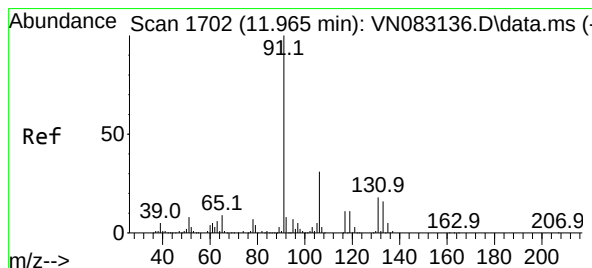
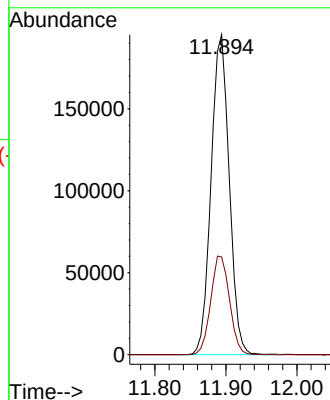
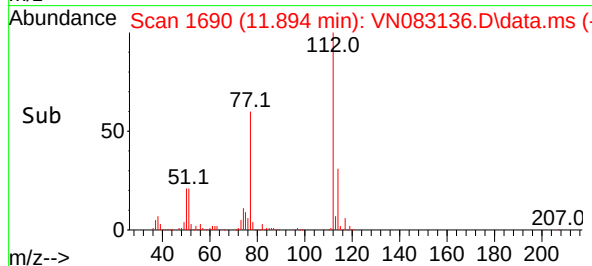
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion:112 Resp: 346172
Ion Ratio Lower Upper
112 100
114 30.6 26.2 39.2

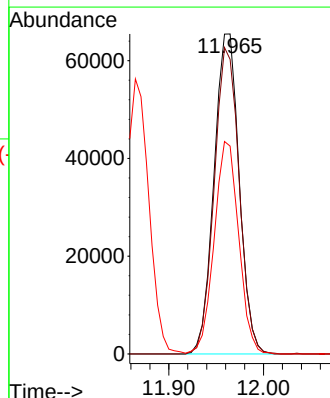
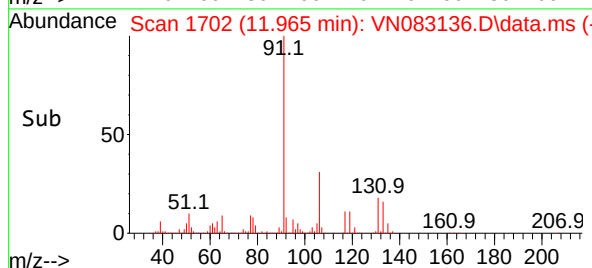
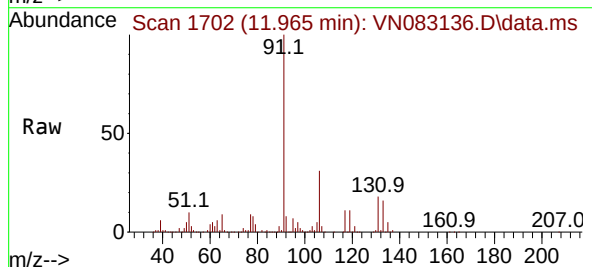
Manual Integrations
APPROVED

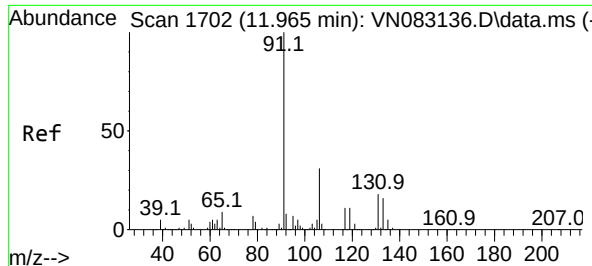
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#66
1,1,1,2-Tetrachloroethane
Concen: 51.242 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:131 Resp: 121057
Ion Ratio Lower Upper
131 100
133 94.9 47.3 142.0
119 64.7 32.5 97.4





#67

Ethyl Benzene

Concen: 51.179 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. 0.000 min

Lab File: VN083136.D

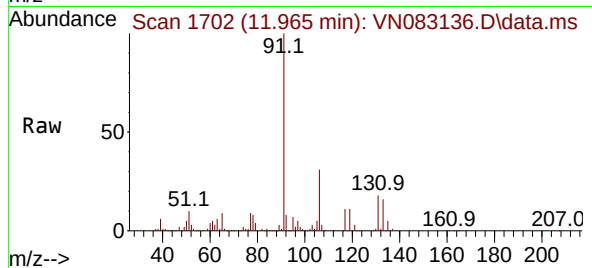
Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050



Tgt Ion: 91 Resp: 628900

Ion Ratio Lower Upper

91 100

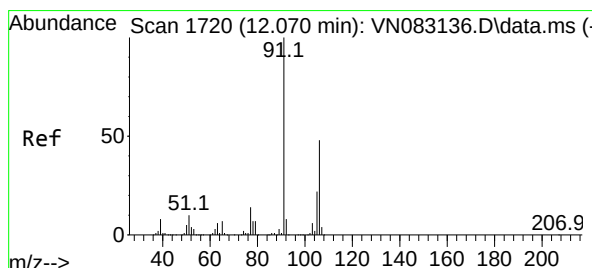
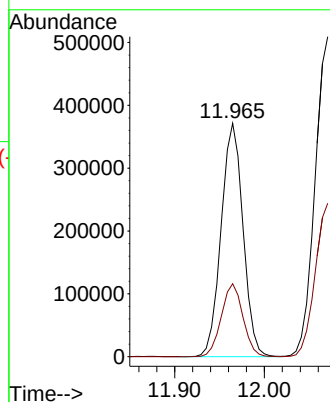
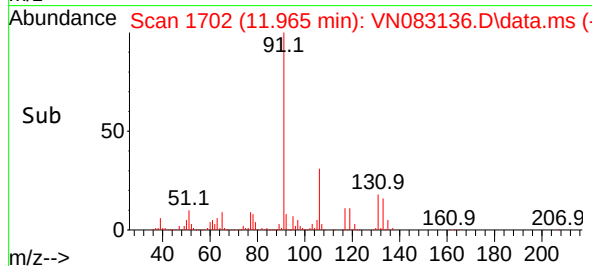
106 31.3 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#68

m/p-Xylenes

Concen: 103.683 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. 0.000 min

Lab File: VN083136.D

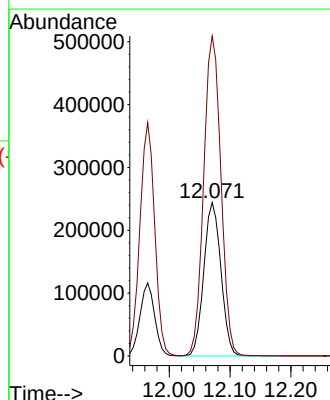
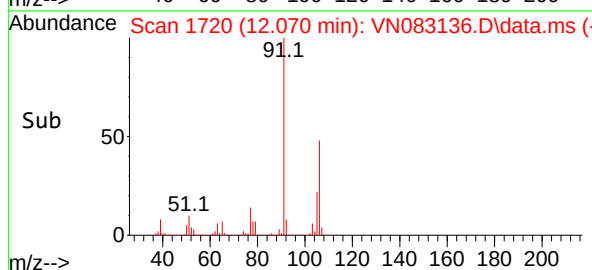
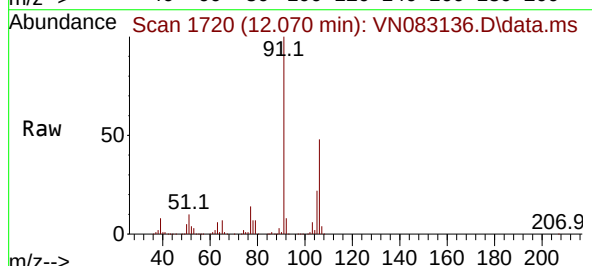
Acq: 07 Aug 2024 10:58

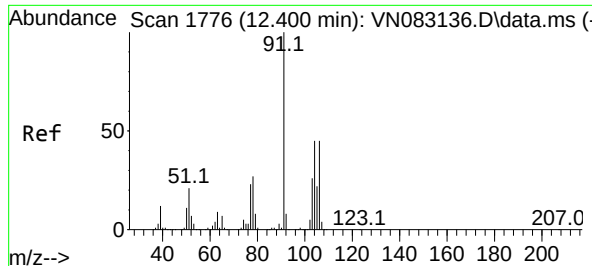
Tgt Ion:106 Resp: 477261

Ion Ratio Lower Upper

106 100

91 209.9 166.1 249.1





#69

o-Xylene

Concen: 51.638 ug/l

RT: 12.400 min Scan# 1776

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:106 Resp: 234432

Ion Ratio Lower Upper

106 100

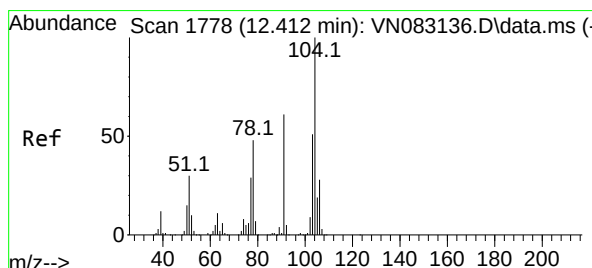
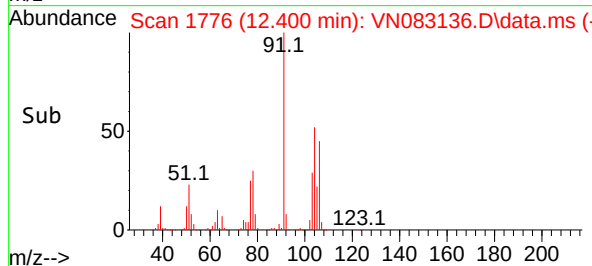
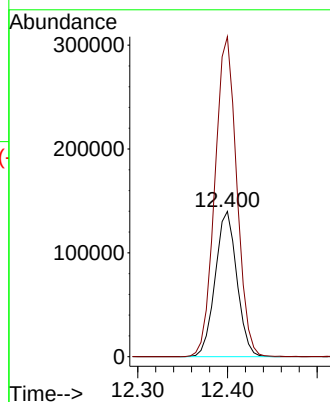
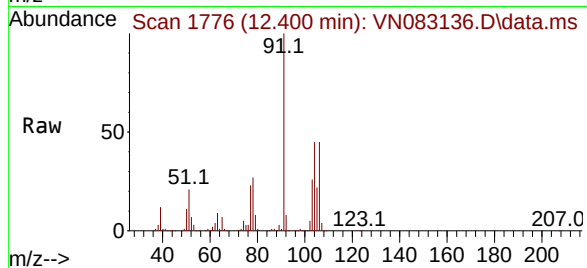
91 222.4 111.3 333.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#70

Styrene

Concen: 53.115 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

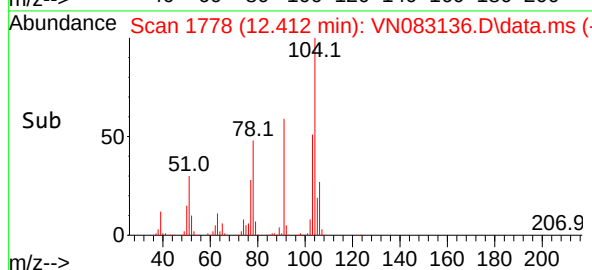
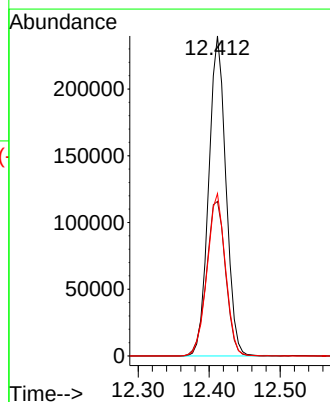
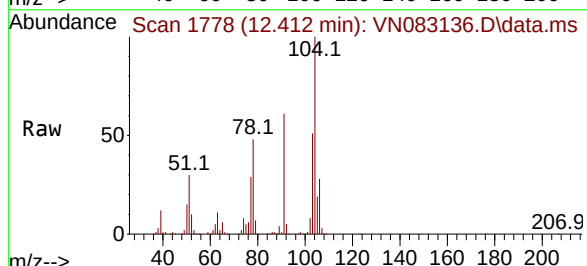
Tgt Ion:104 Resp: 405002

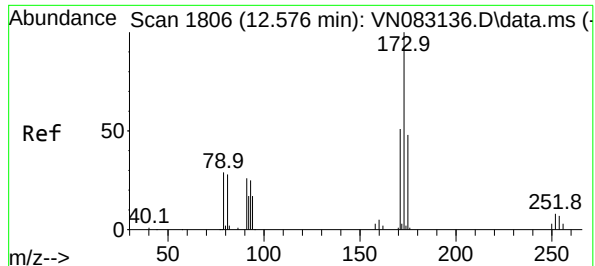
Ion Ratio Lower Upper

104 100

78 53.4 41.6 62.4

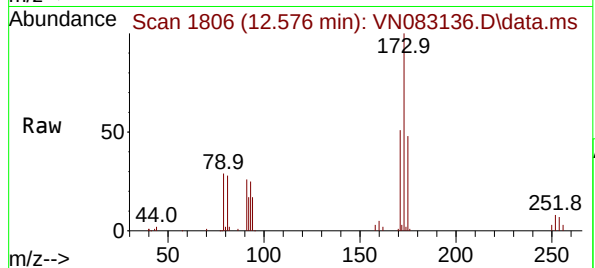
103 53.7 44.0 66.0





#71
Bromoform
Concen: 53.850 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

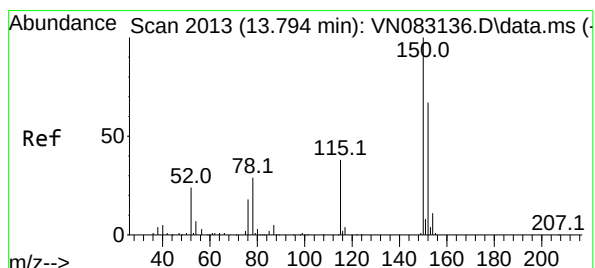
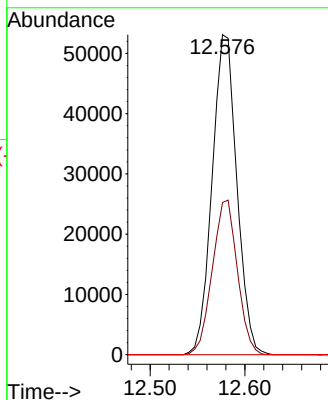
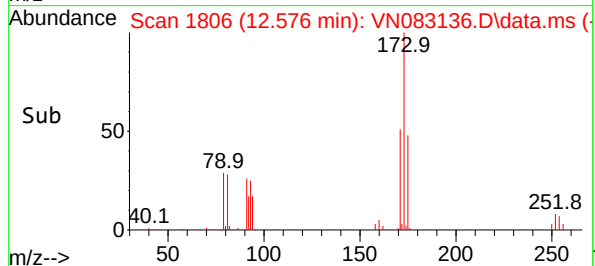
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion:173 Resp: 96372
Ion Ratio Lower Upper
173 100
175 48.9 24.0 72.0
254 0.0 0.0 0.0

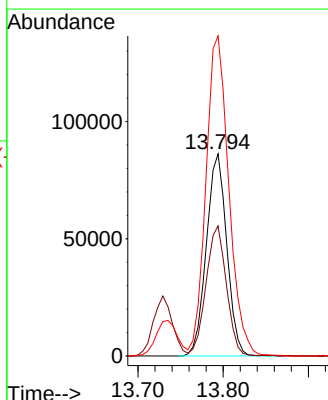
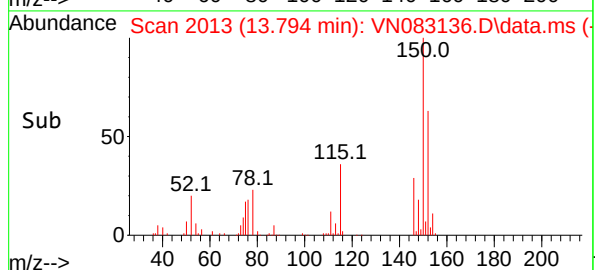
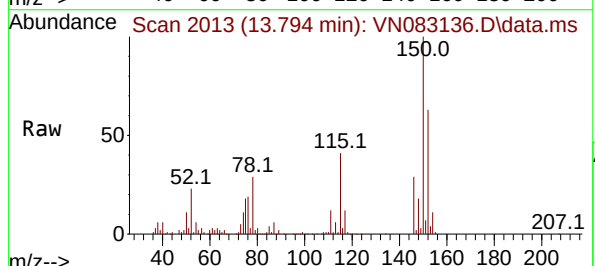
Manual Integrations
APPROVED

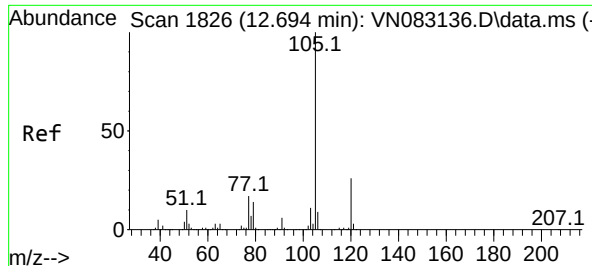
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1213
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:152 Resp: 143466
Ion Ratio Lower Upper
152 100
115 63.9 30.6 91.6
150 177.7 0.0 348.6





#73

Isopropylbenzene

Concen: 50.795 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:105 Resp: 609529

Ion Ratio Lower Upper

105 100

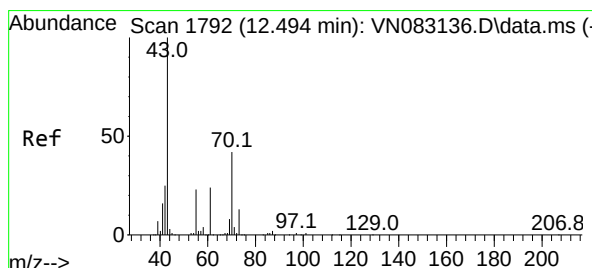
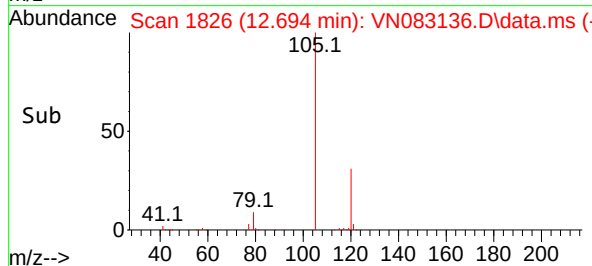
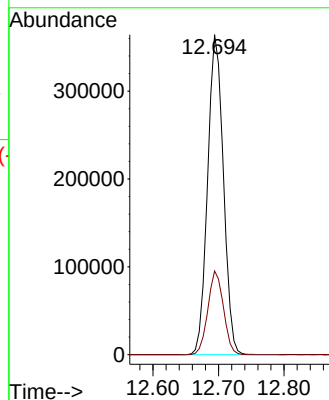
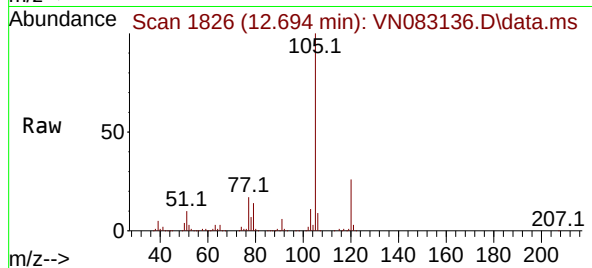
120 25.8 12.9 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#74

N-ethyl acetate

Concen: 48.950 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Tgt Ion: 43 Resp: 287319

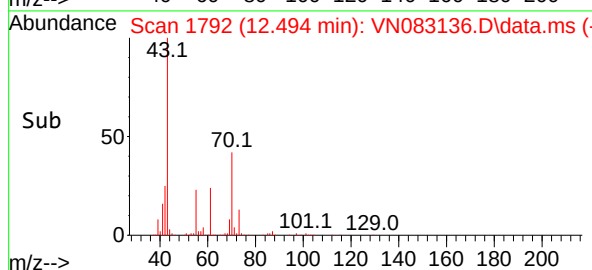
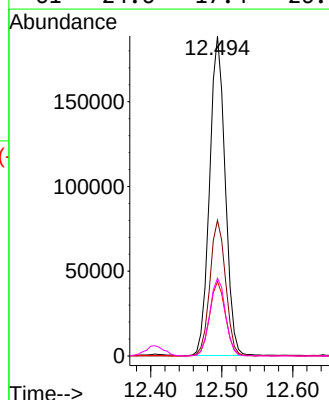
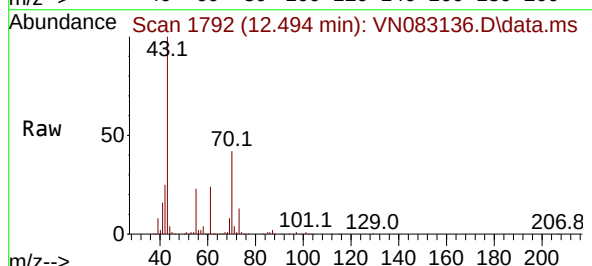
Ion Ratio Lower Upper

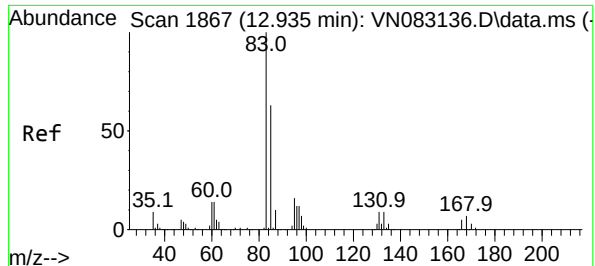
43 100

70 42.7 29.8 44.6

55 23.8 18.7 28.1

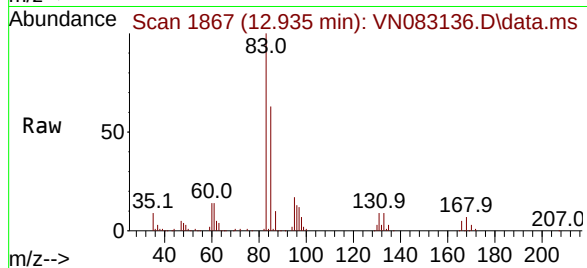
61 24.6 17.4 26.0





#75
1,1,2,2-Tetrachloroethane
Concen: 49.349 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

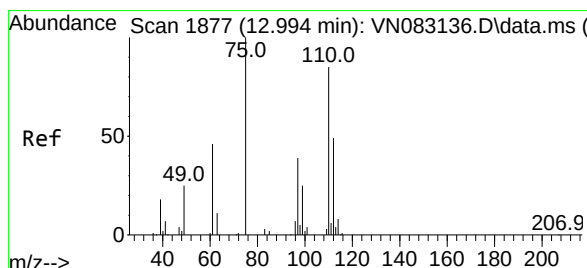
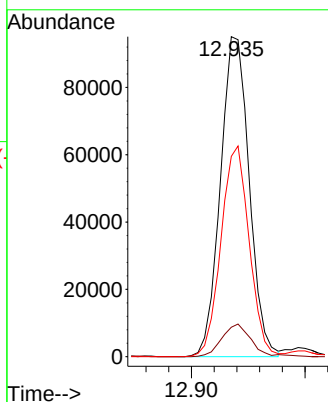
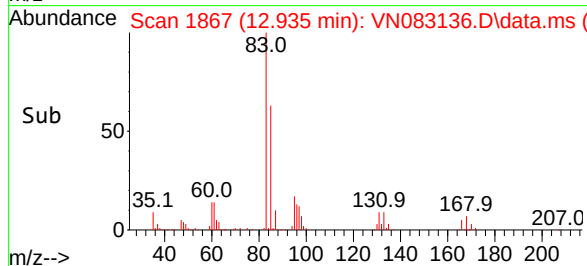
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 83 Resp: 167489
Ion Ratio Lower Upper
83 100
131 10.4 5.0 14.9
85 64.4 31.9 95.7

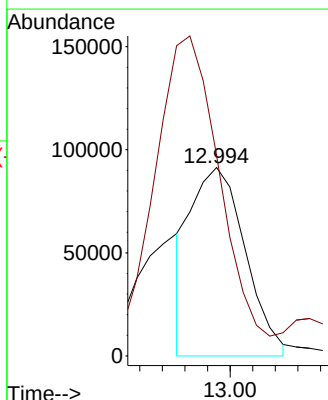
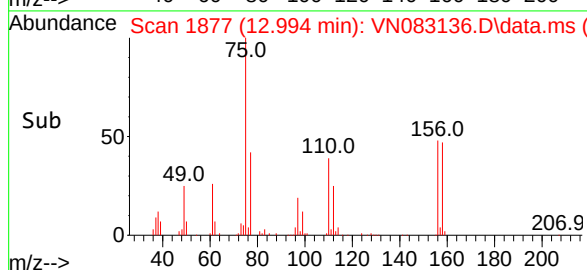
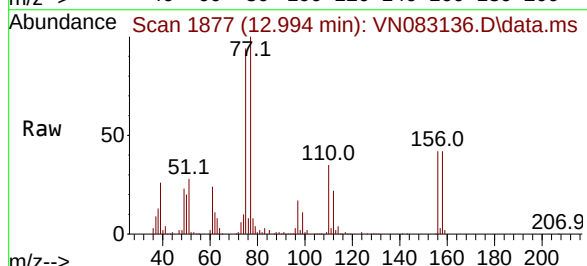
Manual Integrations
APPROVED

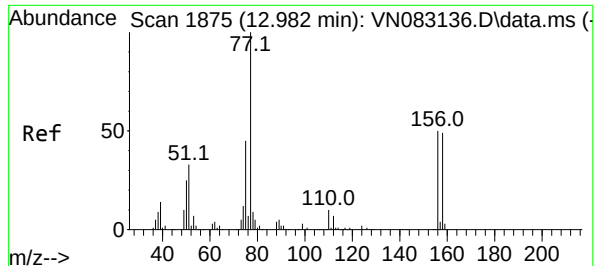
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#76
1,2,3-Trichloropropane
Concen: 48.363 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

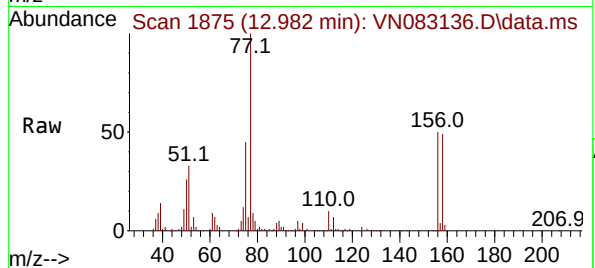
Tgt Ion: 75 Resp: 152531
Ion Ratio Lower Upper
75 100
77 207.4 110.9 332.6





#77
Bromobenzene
Concen: 51.587 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

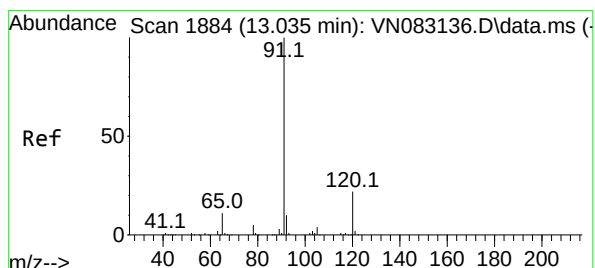
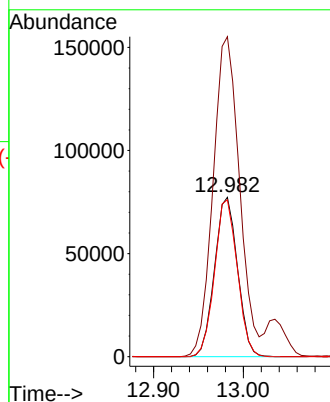
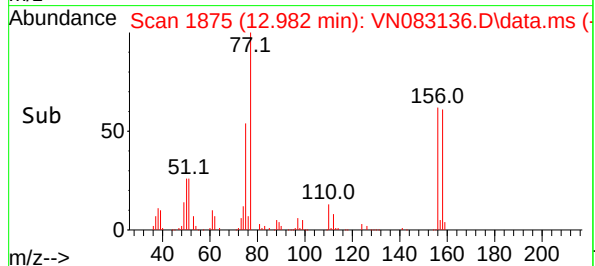
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 156 Resp: 137514
Ion Ratio Lower Upper
156 100
77 230.1 111.3 333.8
158 97.4 48.3 144.9

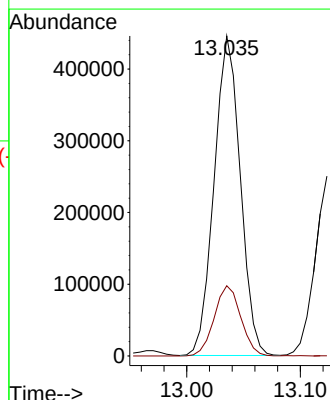
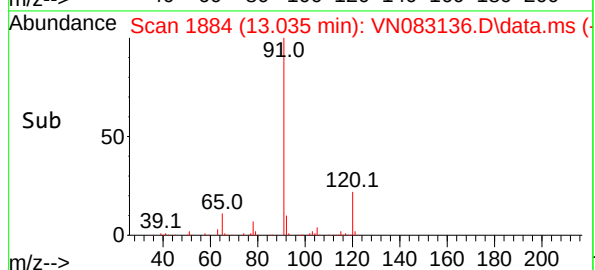
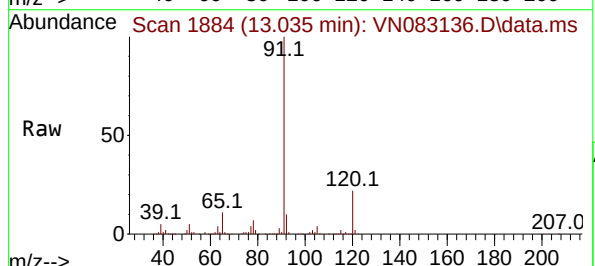
Manual Integrations
APPROVED

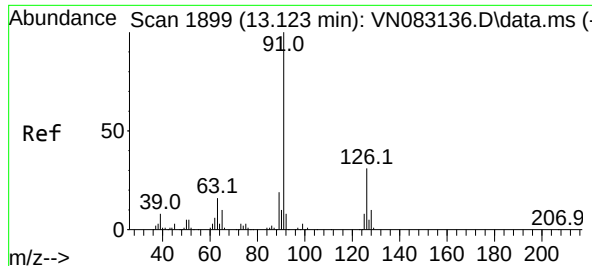
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#78
n-propylbenzene
Concen: 51.584 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 91 Resp: 712768
Ion Ratio Lower Upper
91 100
120 22.3 10.9 32.9





#79

2-Chlorotoluene

Concen: 50.371 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 441262

Ion Ratio Lower Upper

91 100

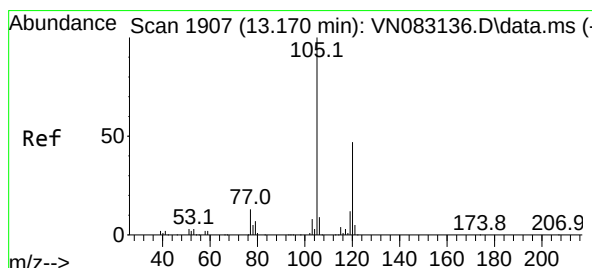
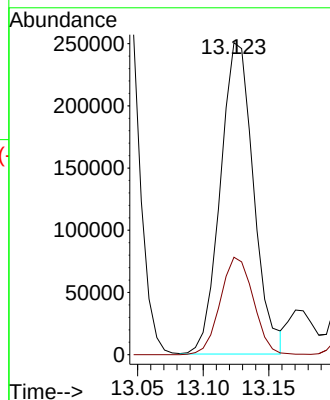
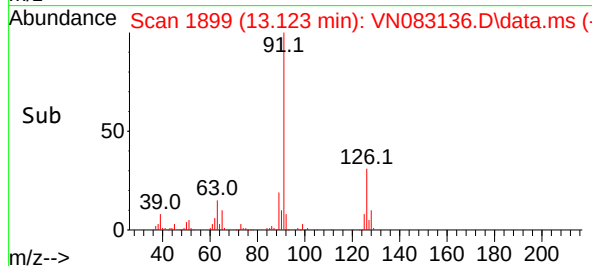
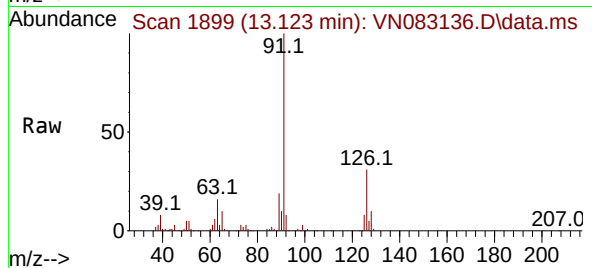
126 31.1 16.2 48.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#80

1,3,5-Trimethylbenzene

Concen: 51.254 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN083136.D

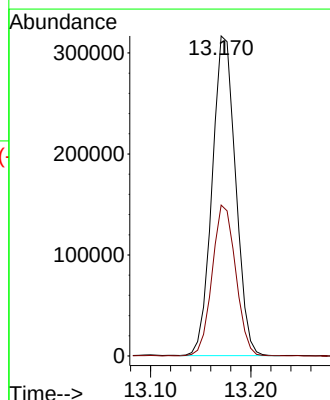
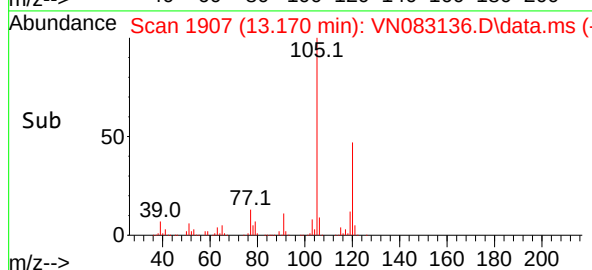
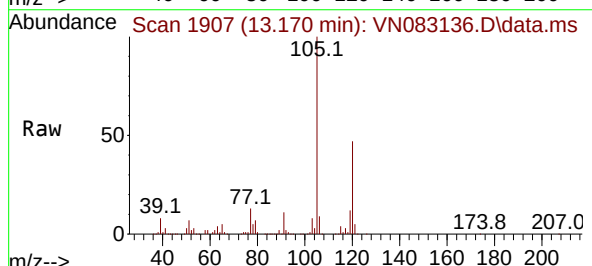
Acq: 07 Aug 2024 10:58

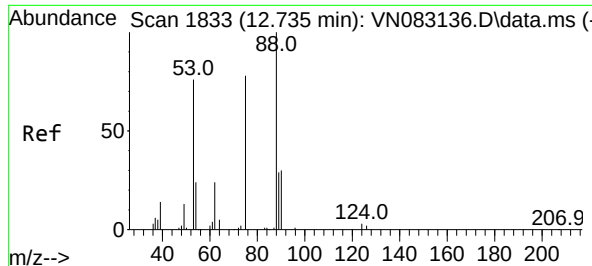
Tgt Ion:105 Resp: 514918

Ion Ratio Lower Upper

105 100

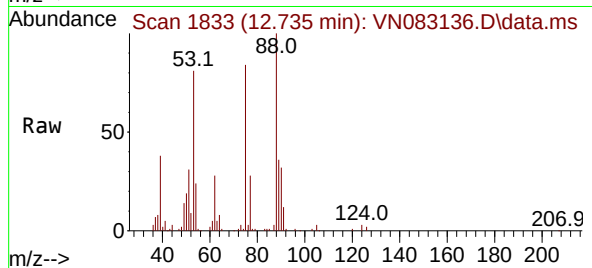
120 47.5 24.3 72.8





#81
trans-1,4-Dichloro-2-butene
Concen: 48.894 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

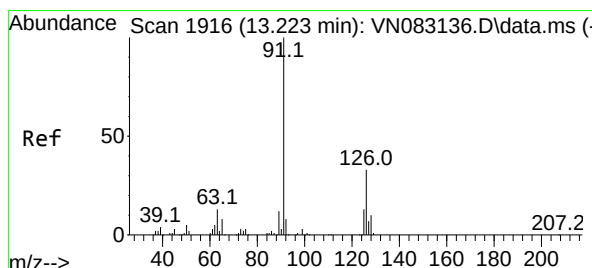
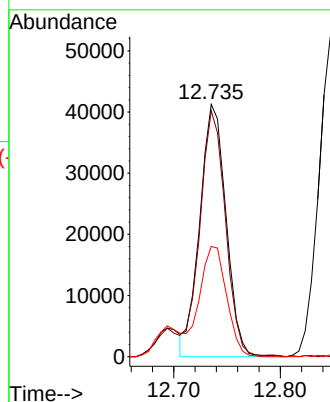
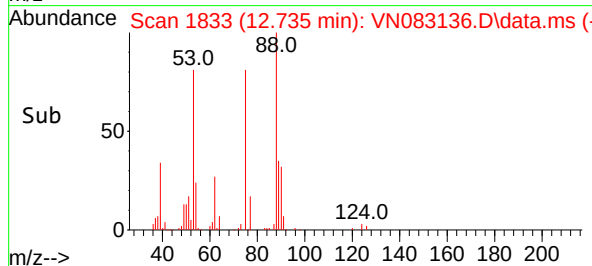
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 75 Resp: 70770
Ion Ratio Lower Upper
75 100
53 94.2 88.4 132.6
89 44.3 36.3 54.5

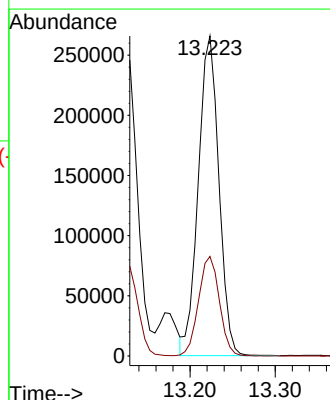
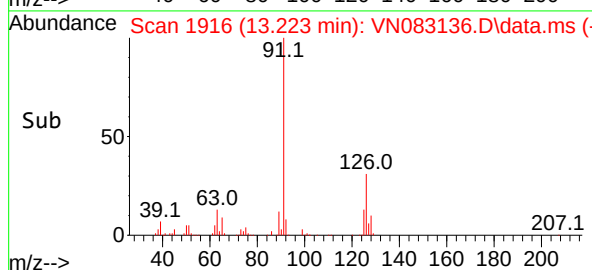
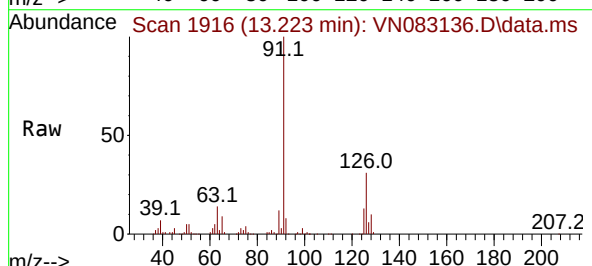
Manual Integrations
APPROVED

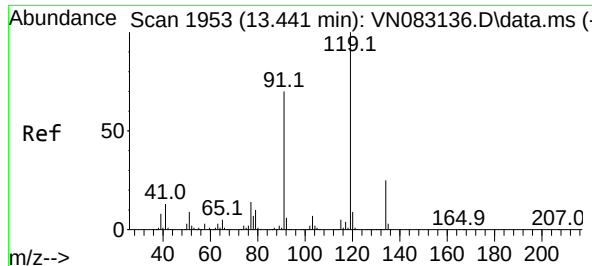
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#82
4-Chlorotoluene
Concen: 50.684 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

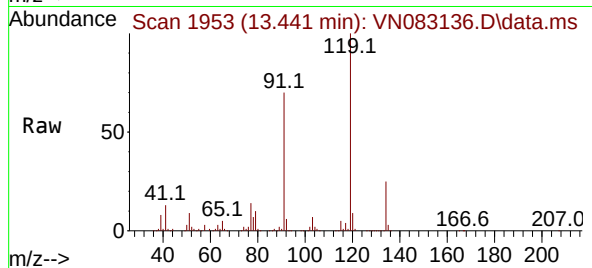
Tgt Ion: 91 Resp: 445369
Ion Ratio Lower Upper
91 100
126 31.6 16.2 48.6





#83
tert-Butylbenzene
Concen: 50.983 ug/l
RT: 13.441 min Scan# 1953
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

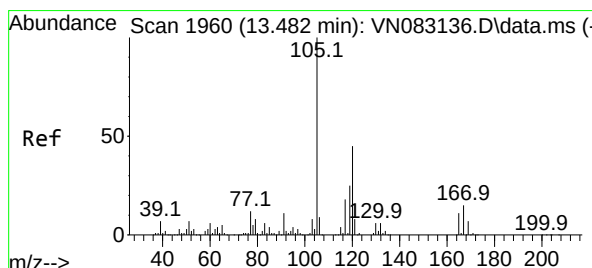
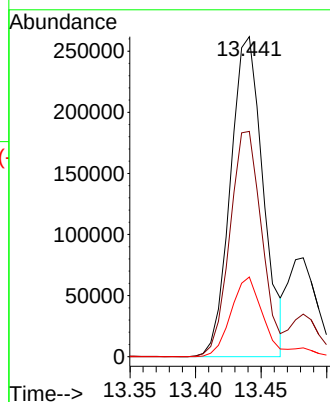
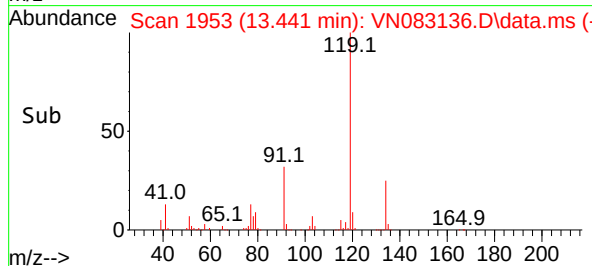
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion:119 Resp: 453597
Ion Ratio Lower Upper
119 100
91 68.9 35.0 105.1
134 24.1 13.3 39.8

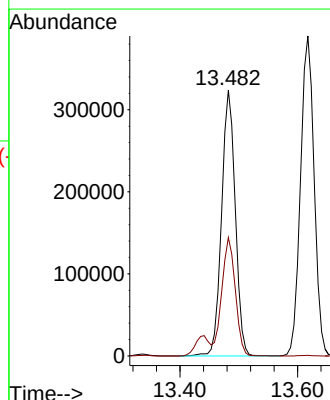
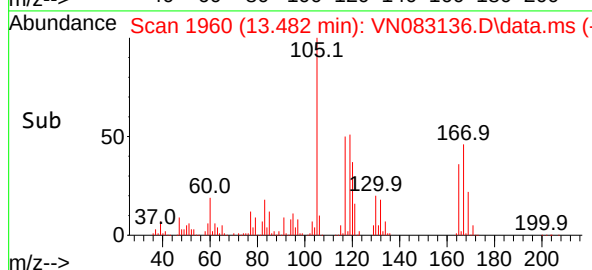
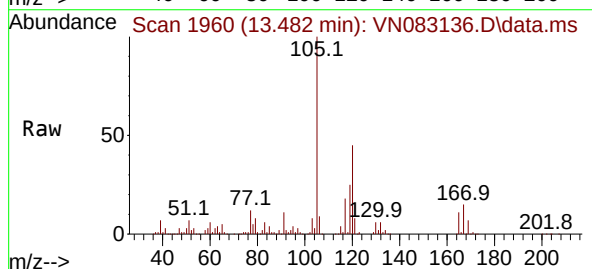
Manual Integrations
APPROVED

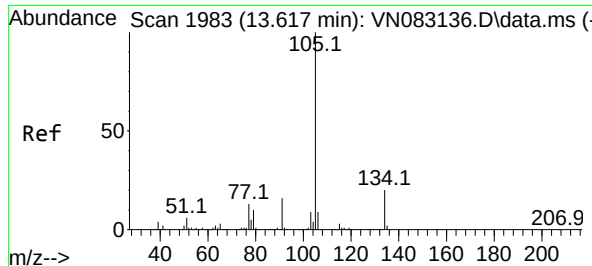
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#84
1,2,4-Trimethylbenzene
Concen: 51.778 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

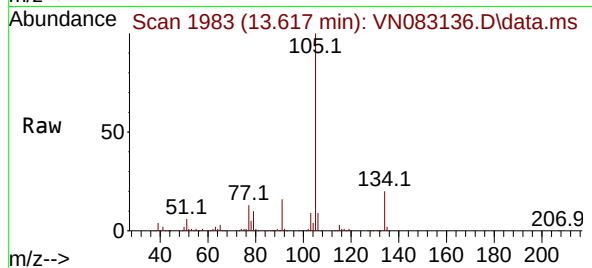
Tgt Ion:105 Resp: 524226
Ion Ratio Lower Upper
105 100
120 44.1 21.9 65.8





#85
 sec-Butylbenzene
 Concen: 51.809 ug/l
 RT: 13.617 min Scan# 1983
 Delta R.T. 0.000 min
 Lab File: VN083136.D
 Acq: 07 Aug 2024 10:58

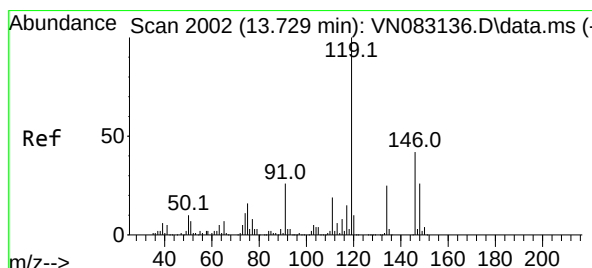
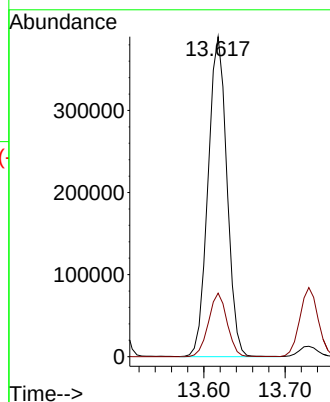
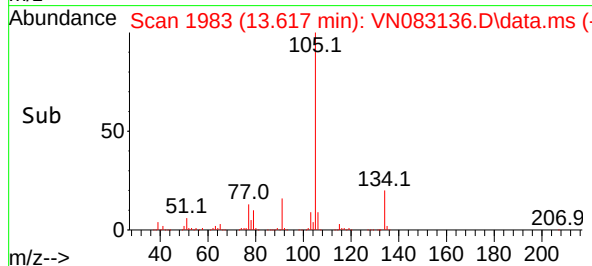
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050



Tgt Ion:105 Resp: 628959
 Ion Ratio Lower Upper
 105 100
 134 19.6 9.8 29.3

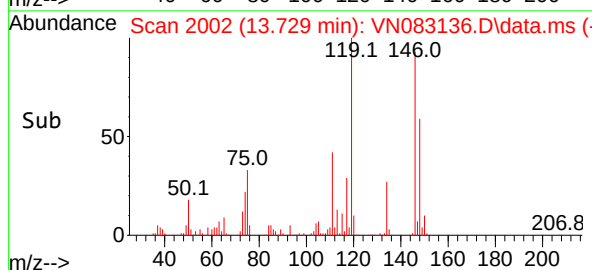
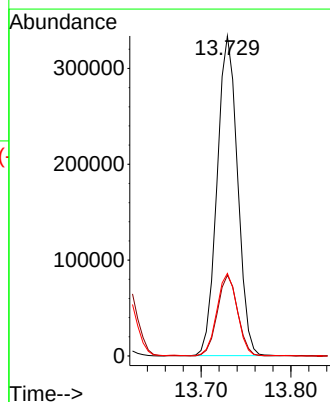
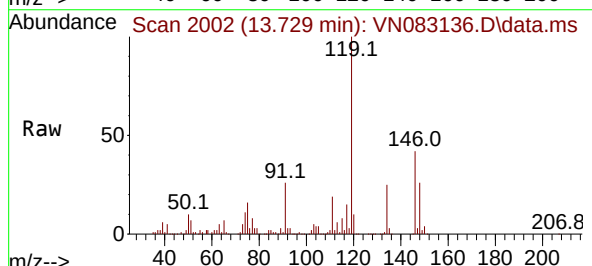
Manual Integrations
 APPROVED

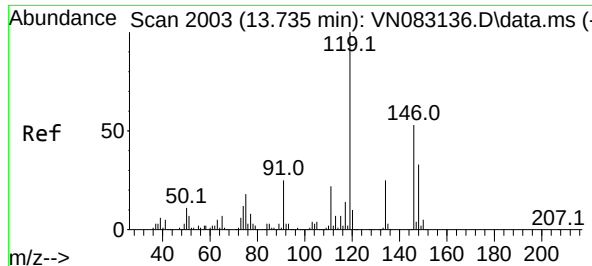
Reviewed By :John Carlone 08/08/2024
 Supervised By :Mahesh Dadoda 08/09/2024



#86
 p-Isopropyltoluene
 Concen: 52.699 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.000 min
 Lab File: VN083136.D
 Acq: 07 Aug 2024 10:58

Tgt Ion:119 Resp: 528236
 Ion Ratio Lower Upper
 119 100
 134 24.8 13.0 39.0
 91 25.4 12.3 36.9





#87

1,3-Dichlorobenzene

Concen: 50.651 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:146 Resp: 254058

Ion Ratio Lower Upper

146 100

111 43.1 20.6 61.9

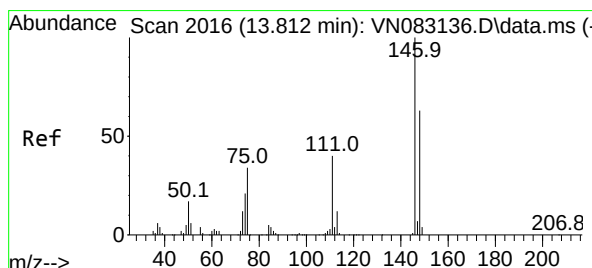
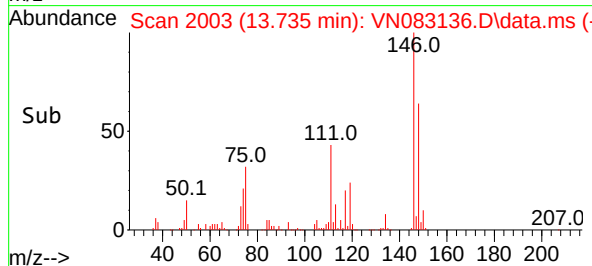
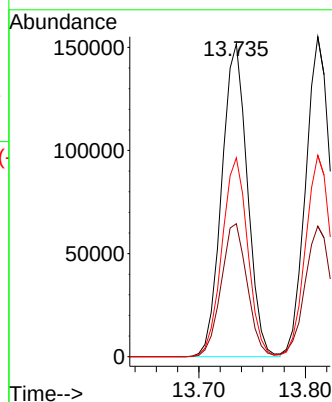
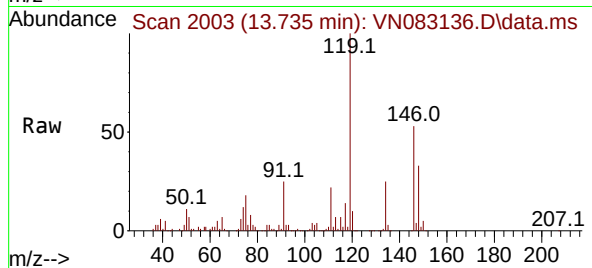
148 63.5 31.8 95.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#88

1,4-Dichlorobenzene

Concen: 50.589 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

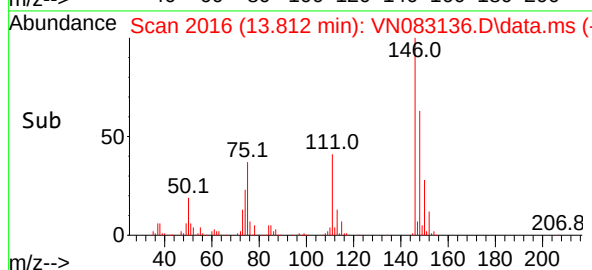
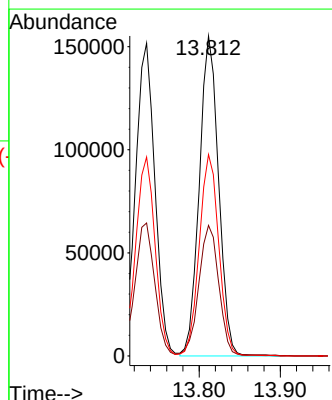
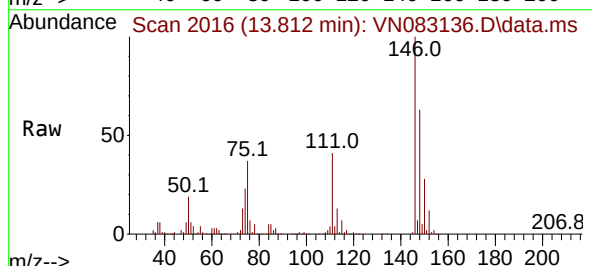
Tgt Ion:146 Resp: 255814

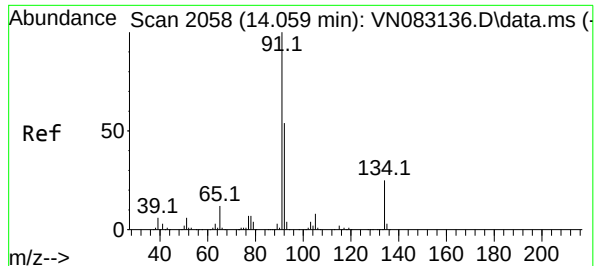
Ion Ratio Lower Upper

146 100

111 42.0 20.1 60.3

148 64.0 32.2 96.6





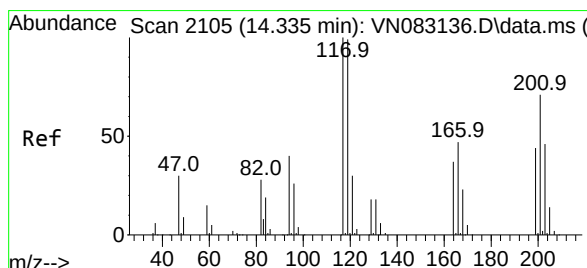
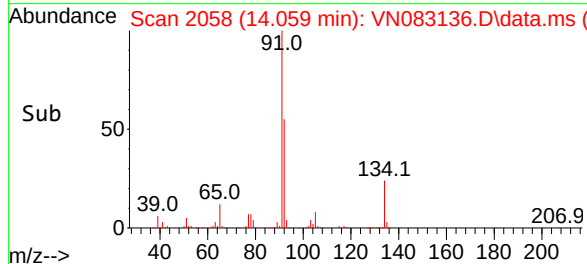
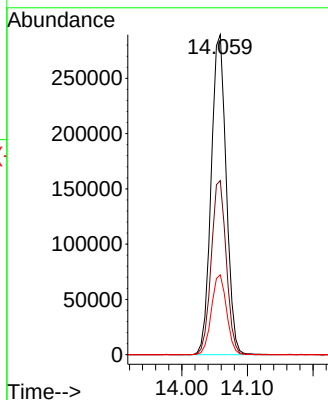
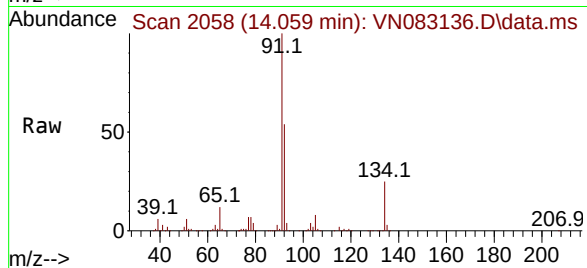
#89
n-Butylbenzene
Concen: 53.120 ug/l
RT: 14.059 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 461372
Ion Ratio Lower Upper
91 100
92 54.4 26.1 78.3
134 25.1 12.1 36.3

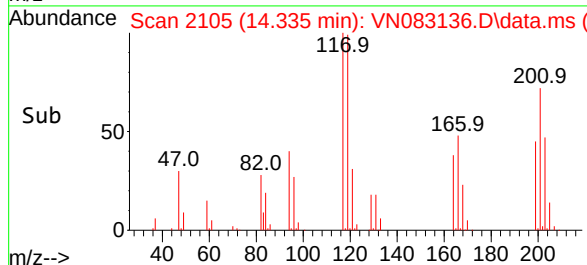
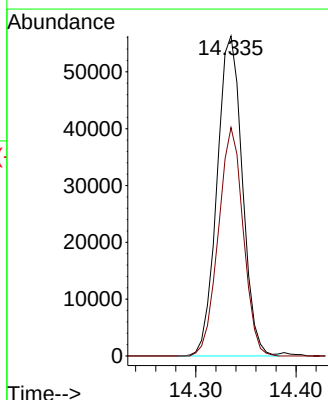
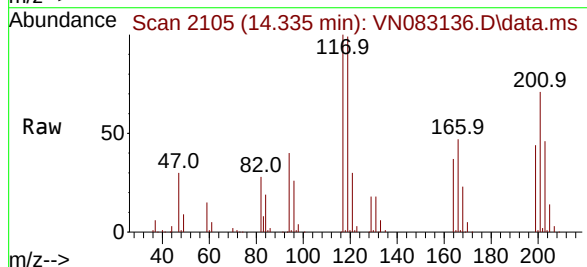
Manual Integrations
APPROVED

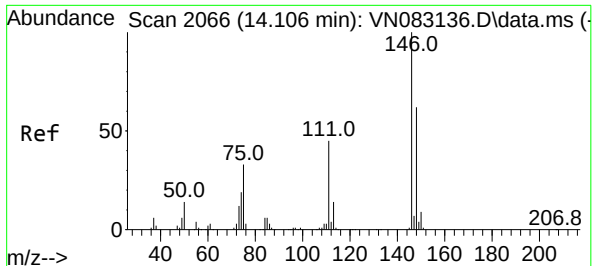
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#90
Hexachloroethane
Concen: 51.037 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

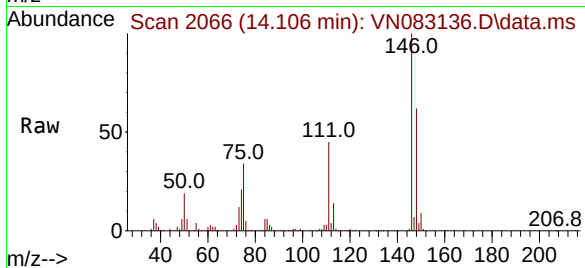
Tgt Ion:117 Resp: 98836
Ion Ratio Lower Upper
117 100
201 69.9 35.8 107.3





#91
1,2-Dichlorobenzene
Concen: 50.365 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

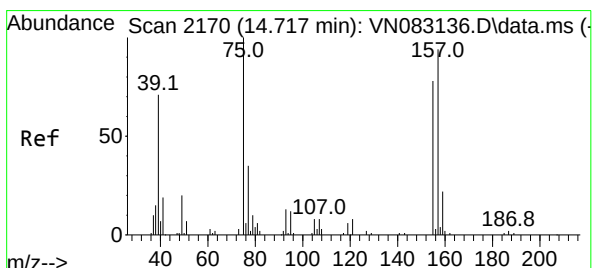
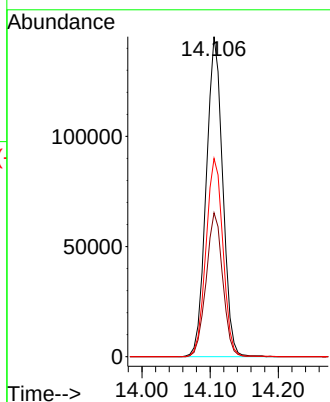
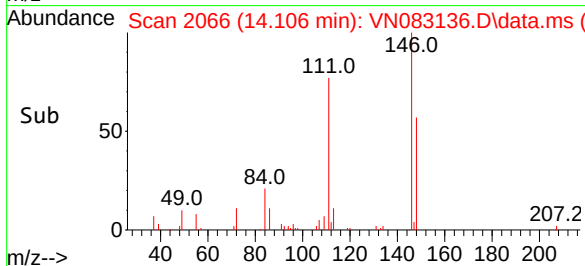
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion:146 Resp: 244462
Ion Ratio Lower Upper
146 100
111 45.3 21.4 64.2
148 63.6 32.1 96.5

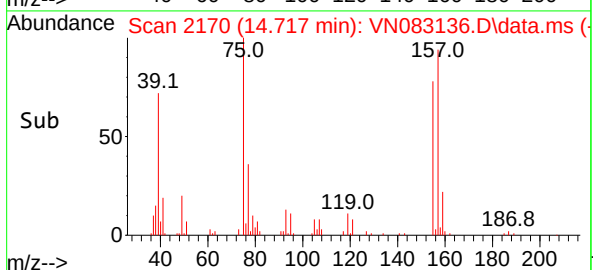
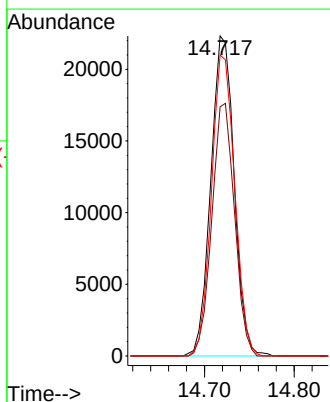
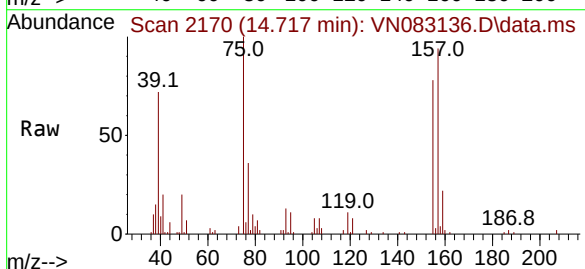
Manual Integrations
APPROVED

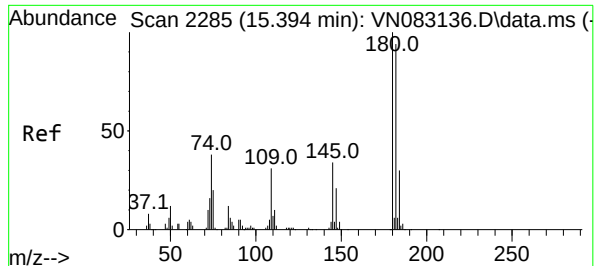
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#92
1,2-Dibromo-3-Chloropropane
Concen: 49.017 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 75 Resp: 40369
Ion Ratio Lower Upper
75 100
155 76.6 36.6 109.8
157 93.4 46.9 140.6





#93

1,2,4-Trichlorobenzene

Concen: 51.937 ug/l

RT: 15.394 min Scan# 2285

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:180 Resp: 141229

Ion Ratio Lower Upper

180 100

182 94.1 47.3 141.8

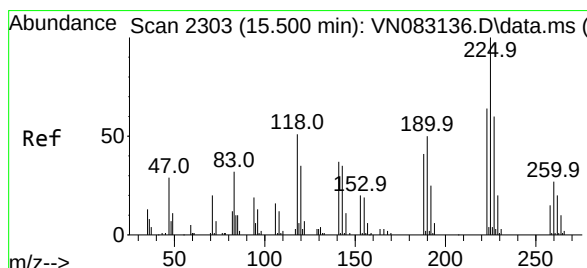
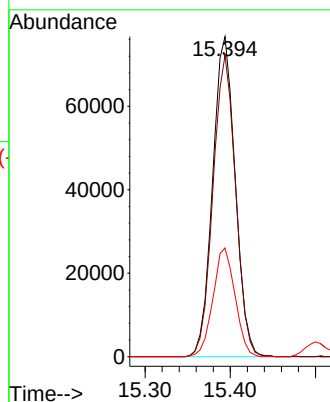
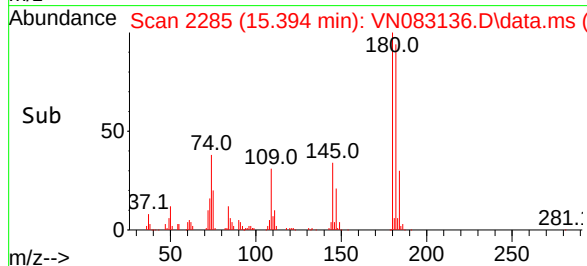
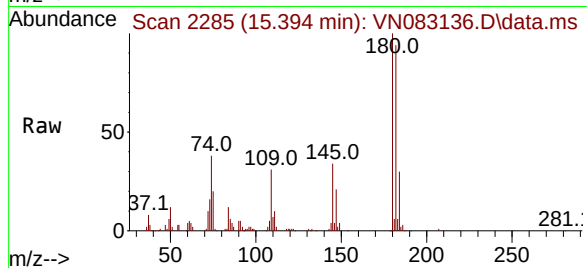
145 33.3 15.7 47.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#94

Hexachlorobutadiene

Concen: 48.509 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

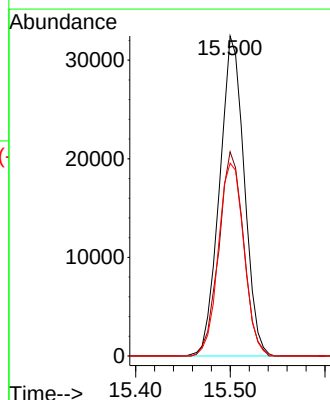
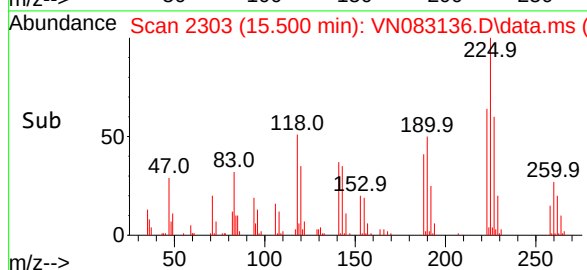
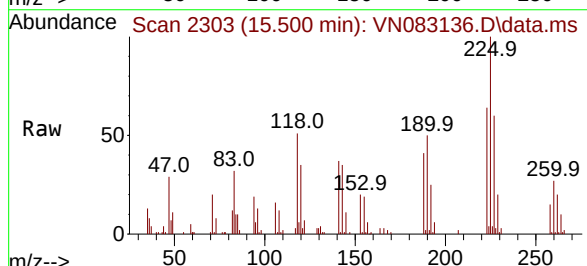
Tgt Ion:225 Resp: 58664

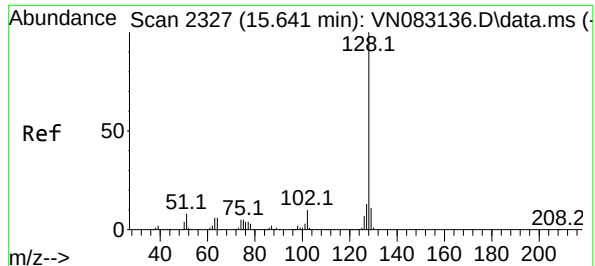
Ion Ratio Lower Upper

225 100

223 63.9 31.9 95.7

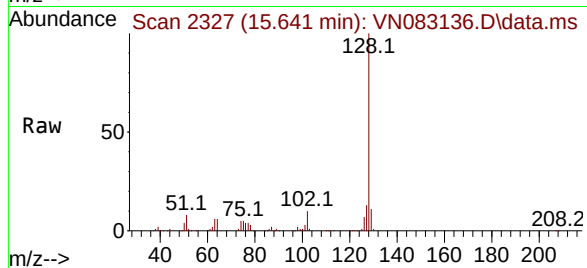
227 62.3 32.5 97.5





#95
Naphthalene
Concen: 51.844 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

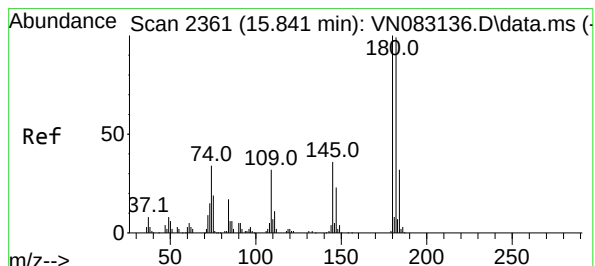
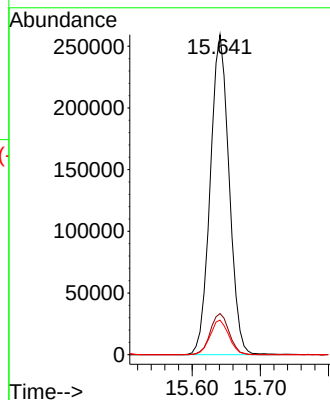
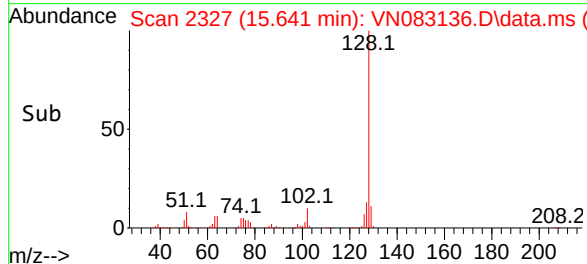
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion:128 Resp: 499372
Ion Ratio Lower Upper
128 100
127 12.9 10.6 16.0
129 10.7 8.6 12.8

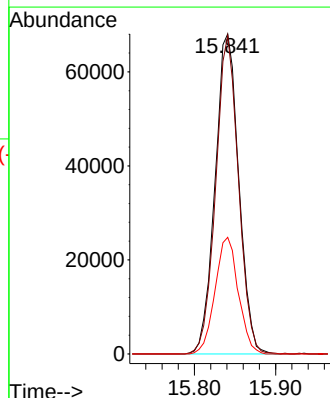
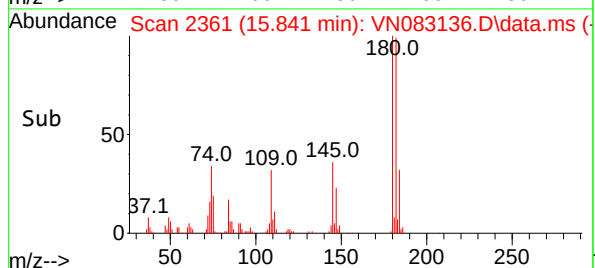
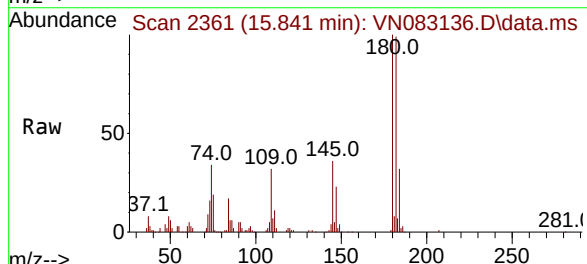
Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#96
1,2,3-Trichlorobenzene
Concen: 51.335 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:180 Resp: 138125
Ion Ratio Lower Upper
180 100
182 95.2 48.9 146.8
145 35.8 16.8 50.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
 Data File : VN083137.D
 Acq On : 07 Aug 2024 11:22
 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 08/08/2024
 Supervised By : Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 06:16:37 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 05:50:26 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	212913	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	362741	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	313255	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	149244	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	51159	16.881	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	33.760%#		
35) Dibromofluoromethane	8.171	113	38354	16.940	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	33.880%#		
50) Toluene-d8	10.565	98	142952	16.926	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	33.860%#		
62) 4-Bromofluorobenzene	12.847	95	56566	17.179	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery =	34.360%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	48191	19.959	ug/l	95
3) Chloromethane	2.359	50	49777	20.137	ug/l	99
4) Vinyl Chloride	2.512	62	50108	19.866	ug/l	97
5) Bromomethane	2.942	94	31525	20.143	ug/l	89
6) Chloroethane	3.112	64	30331	19.221	ug/l	100
7) Trichlorofluoromethane	3.489	101	85550	20.531	ug/l	99
8) Diethyl Ether	3.959	74	31256	20.158	ug/l	85
9) 1,1,2-Trichlorotrifluo...	4.365	101	46683	20.321	ug/l	99
10) Methyl Iodide	4.589	142	59865	19.810	ug/l	96
11) Tert butyl alcohol	5.530	59	62317	98.946	ug/l	97
12) 1,1-Dichloroethene	4.342	96	45786	19.399	ug/l	89
13) Acrolein	4.183	56	35516	86.524	ug/l	97
14) Allyl chloride	5.018	41	90544	20.301	ug/l	87
15) Acrylonitrile	5.718	53	129316	99.835	ug/l	99
16) Acetone	4.430	43	110676	93.330	ug/l	95
17) Carbon Disulfide	4.712	76	135927	19.683	ug/l	97
18) Methyl Acetate	5.030	43	65871	18.644	ug/l #	91
19) Methyl tert-butyl Ether	5.800	73	172740	20.277	ug/l	97
20) Methylene Chloride	5.271	84	52716	19.316	ug/l	84
21) trans-1,2-Dichloroethene	5.789	96	49121	20.137	ug/l	94
22) Diisopropyl ether	6.671	45	168267	20.070	ug/l #	95
23) Vinyl Acetate	6.600	43	871215m	101.401	ug/l	
24) 1,1-Dichloroethane	6.571	63	93066	20.366	ug/l	97
25) 2-Butanone	7.488	43	180458	99.107	ug/l	93
26) 2,2-Dichloropropane	7.488	77	86767	20.445	ug/l	99
27) cis-1,2-Dichloroethene	7.488	96	58852	19.993	ug/l	92
28) Bromochloromethane	7.812	49	35768	19.153	ug/l	86
29) Tetrahydrofuran	7.841	42	115821	98.399	ug/l #	86
30) Chloroform	7.965	83	94560	19.917	ug/l	98
31) Cyclohexane	8.253	56	85978	19.144	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	90748	20.194	ug/l	91
36) 1,1-Dichloropropene	8.377	75	68425	19.978	ug/l	98
37) Ethyl Acetate	7.565	43	72806	18.985	ug/l #	93
38) Carbon Tetrachloride	8.359	117	79487	20.605	ug/l	98
39) Methylcyclohexane	9.600	83	85173	20.246	ug/l	95
40) Benzene	8.606	78	207581	20.345	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
 Data File : VN083137.D
 Acq On : 07 Aug 2024 11:22
 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 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 06:16:37 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M

Quant Title : SW846 8260

QLast Update : Thu Aug 08 05:50:26 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	43539	19.968	ug/l	97
42) 1,2-Dichloroethane	8.671	62	74567	20.062	ug/l	97
43) Isopropyl Acetate	8.688	43	138715	19.459	ug/l #	95
44) Trichloroethene	9.353	130	49712	20.469	ug/l	98
45) 1,2-Dichloropropane	9.624	63	49878	20.594	ug/l	100
46) Dibromomethane	9.712	93	35560	20.512	ug/l	98
47) Bromodichloromethane	9.888	83	78421	20.147	ug/l	99
48) Methyl methacrylate	9.682	41	61044	19.254	ug/l	92
49) 1,4-Dioxane	9.694	88	23083	403.558	ug/l	98
51) 4-Methyl-2-Pentanone	10.447	43	374332	103.224	ug/l	93
52) Toluene	10.629	92	131247	20.358	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	83139	20.793	ug/l	97
54) cis-1,3-Dichloropropene	10.312	75	86551	20.351	ug/l	92
55) 1,1,2-Trichloroethane	11.018	97	48081	20.811	ug/l	94
56) Ethyl methacrylate	10.877	69	89503	20.550	ug/l	88
57) 1,3-Dichloropropane	11.165	76	84272	20.464	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	175345	95.242	ug/l	96
59) 2-Hexanone	11.194	43	286222	102.020	ug/l	92
60) Dibromochloromethane	11.359	129	57571	20.610	ug/l	98
61) 1,2-Dibromoethane	11.471	107	48753	20.088	ug/l	98
64) Tetrachloroethene	11.106	164	42332	20.405	ug/l	94
65) Chlorobenzene	11.894	112	137984	19.933	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	48247	19.762	ug/l	99
67) Ethyl Benzene	11.965	91	258237	20.335	ug/l	98
68) m/p-Xylenes	12.071	106	193256	40.625	ug/l	99
69) o-Xylene	12.400	106	95153	20.281	ug/l	99
70) Styrene	12.412	104	161342	20.475	ug/l	98
71) Bromoform	12.576	173	38761	20.957	ug/l #	100
73) Isopropylbenzene	12.694	105	246711	19.764	ug/l	100
74) N-amyl acetate	12.494	43	116100	19.014	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.935	83	69449	19.670	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	65295m	19.901	ug/l	
77) Bromobenzene	12.982	156	55327	19.952	ug/l	94
78) n-propylbenzene	13.035	91	283745	19.740	ug/l	99
79) 2-Chlorotoluene	13.123	91	180682	19.827	ug/l	97
80) 1,3,5-Trimethylbenzene	13.170	105	208367	19.938	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.741	75	31260	20.759	ug/l #	83
82) 4-Chlorotoluene	13.223	91	179932	19.684	ug/l	98
83) tert-Butylbenzene	13.441	119	184965	19.985	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	210474	19.984	ug/l	100
85) sec-Butylbenzene	13.618	105	250829	19.862	ug/l	100
86) p-Isopropyltoluene	13.729	119	208404	19.986	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	103819	19.897	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	103132	19.605	ug/l	97
89) n-Butylbenzene	14.053	91	180483	19.975	ug/l	97
90) Hexachloroethane	14.335	117	40982	20.343	ug/l	94
91) 1,2-Dichlorobenzene	14.106	146	99334	19.673	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.723	75	16552	19.320	ug/l	98
93) 1,2,4-Trichlorobenzene	15.394	180	56299	19.902	ug/l	98
94) Hexachlorobutadiene	15.500	225	23725	18.859	ug/l	99
95) Naphthalene	15.641	128	200875	20.047	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	54944	19.630	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083137.D
Acq On : 07 Aug 2024 11:22
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 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 06:16:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
Response via : Initial Calibration

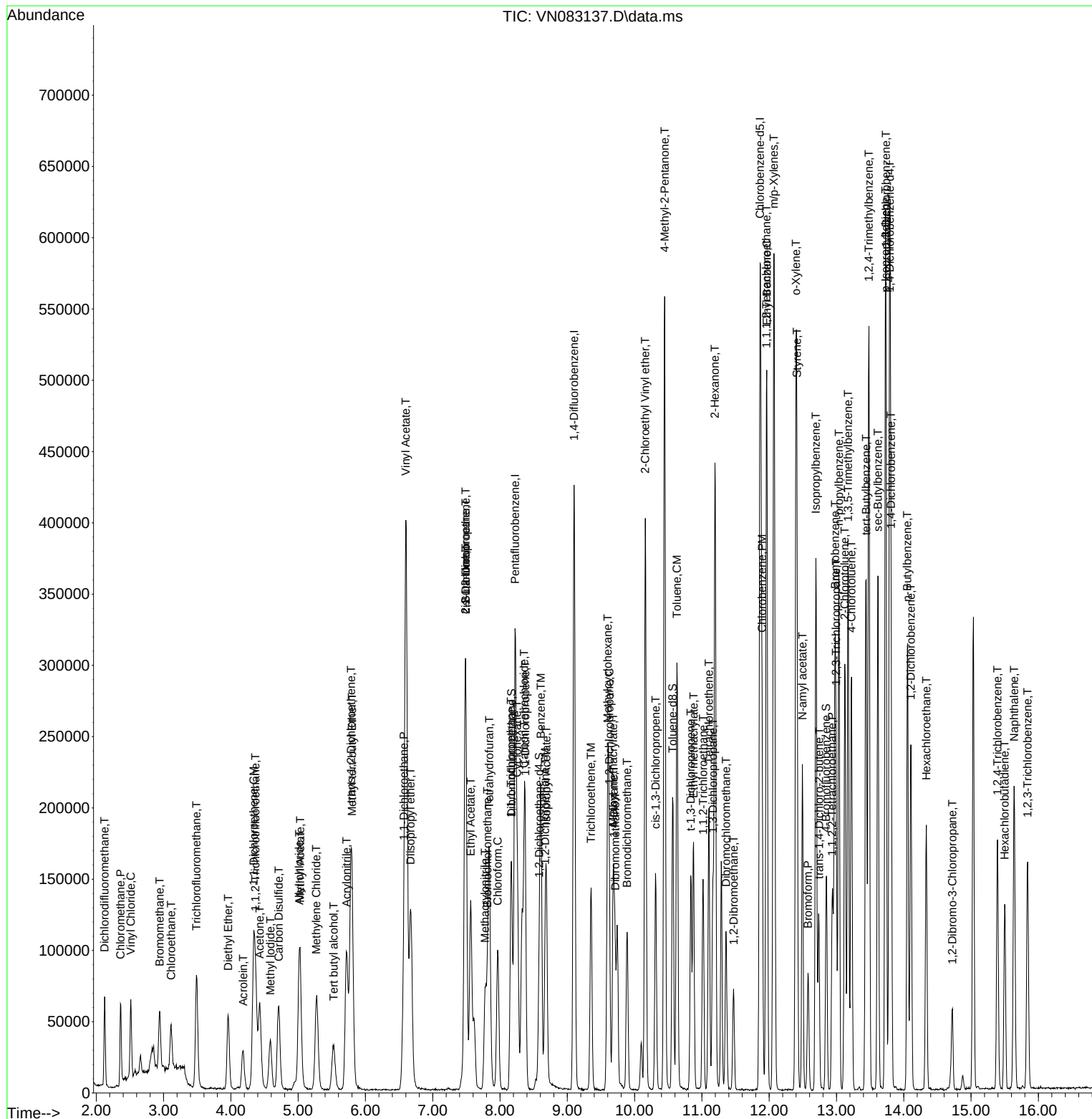
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

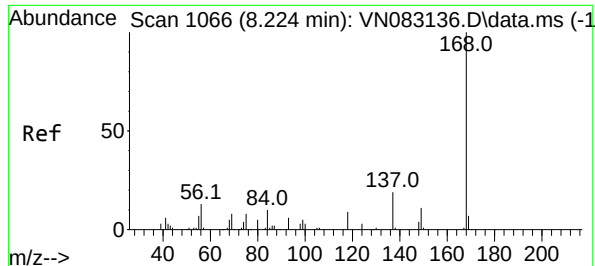
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion:168 Resp: 21291

Ion Ratio Lower Upper

168 100

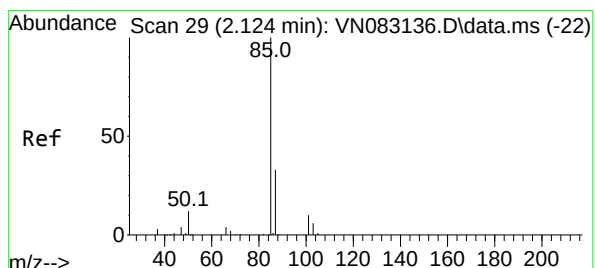
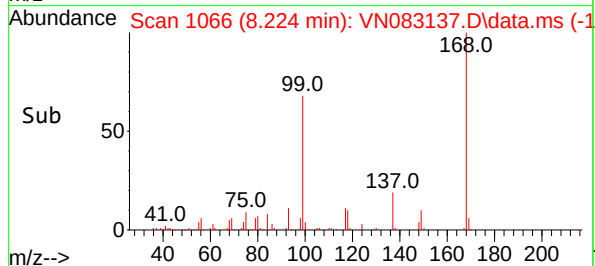
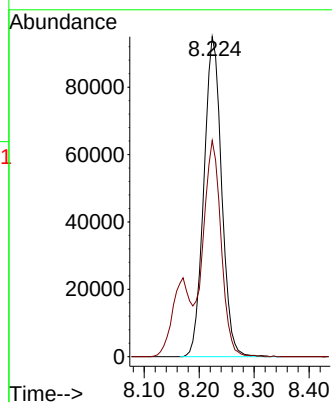
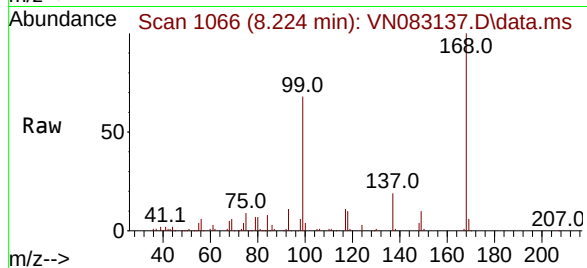
99 67.5 48.2 72.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#2

Dichlorodifluoromethane

Concen: 19.959 ug/l

RT: 2.124 min Scan# 29

Delta R.T. 0.000 min

Lab File: VN083137.D

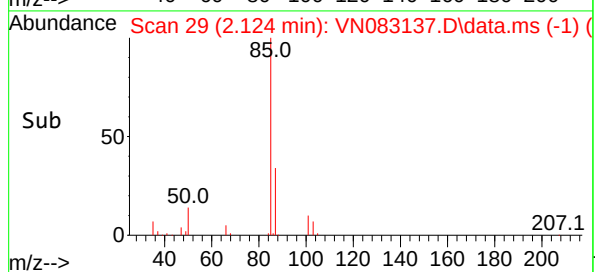
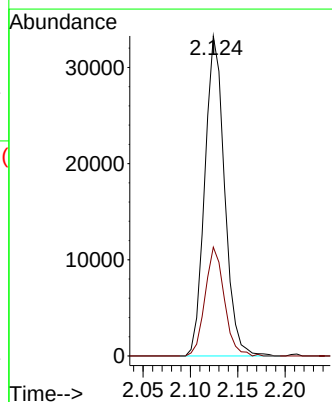
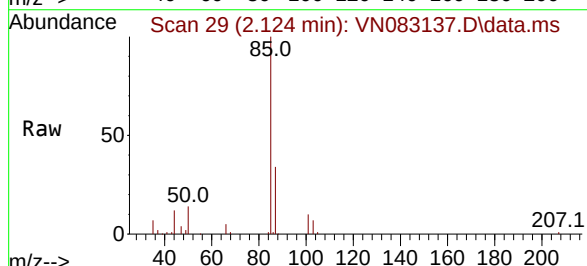
Acq: 07 Aug 2024 11:22

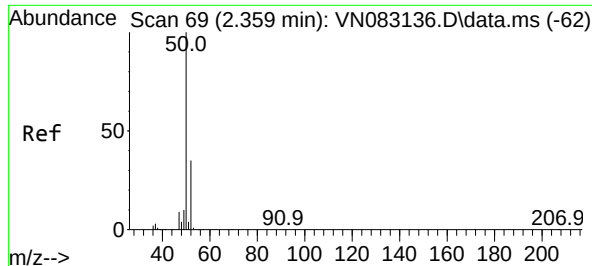
Tgt Ion: 85 Resp: 48191

Ion Ratio Lower Upper

85 100

87 34.0 15.7 47.0





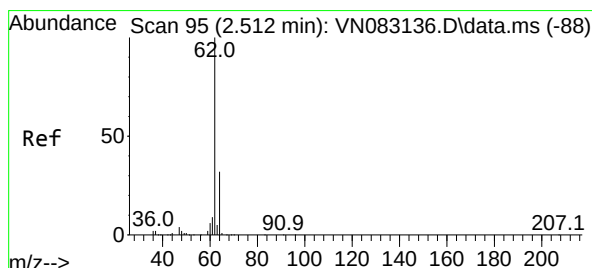
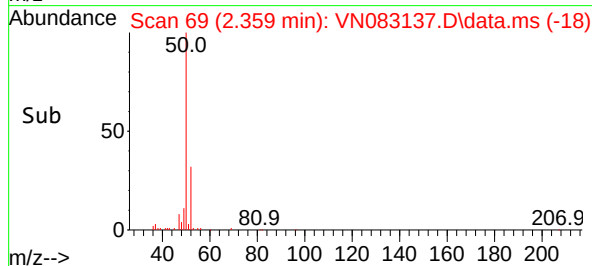
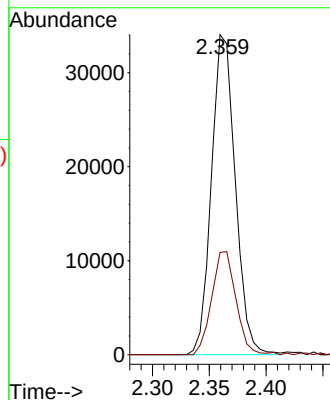
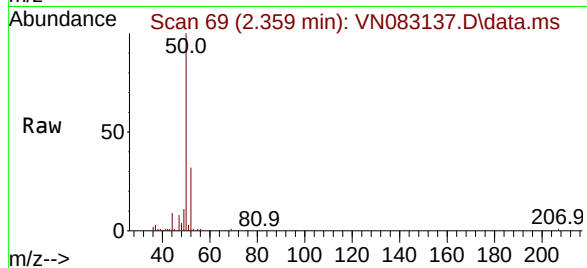
#3
Chloromethane
Concen: 20.137 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 4977
Ion Ratio Lower Upper
50 100
52 31.9 25.0 37.4

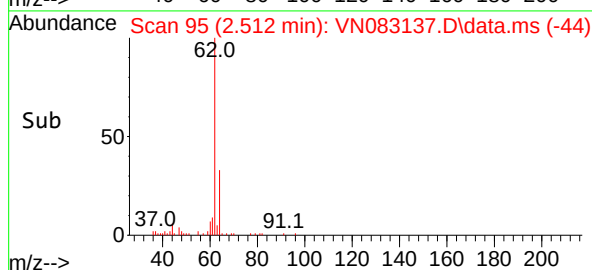
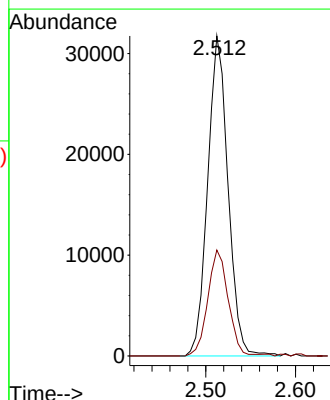
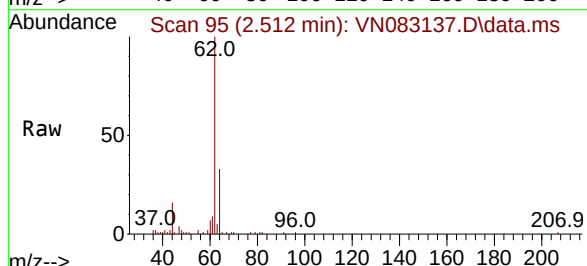
Manual Integrations
APPROVED

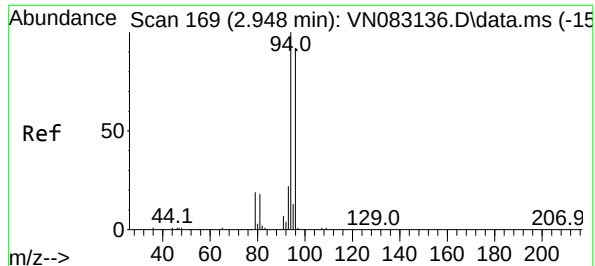
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#4
Vinyl Chloride
Concen: 19.866 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

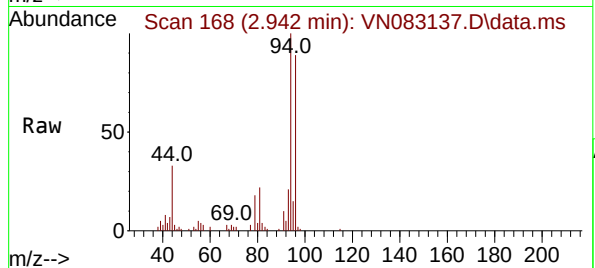
Tgt Ion: 62 Resp: 50108
Ion Ratio Lower Upper
62 100
64 33.1 25.0 37.6





#5
Bromomethane
Concen: 20.143 ug/l
RT: 2.942 min Scan# 168
Delta R.T. -0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

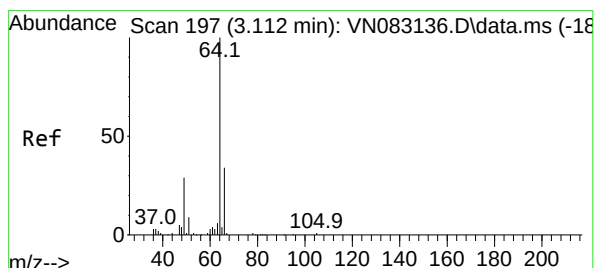
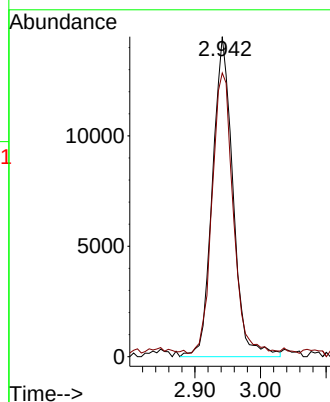
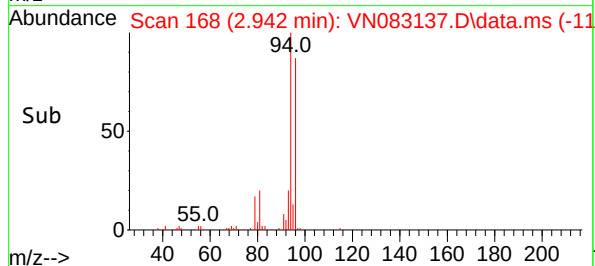
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 94 Resp: 3152
Ion Ratio Lower Upper
94 100
96 87.1 78.0 117.0

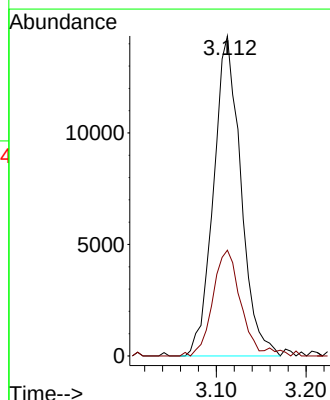
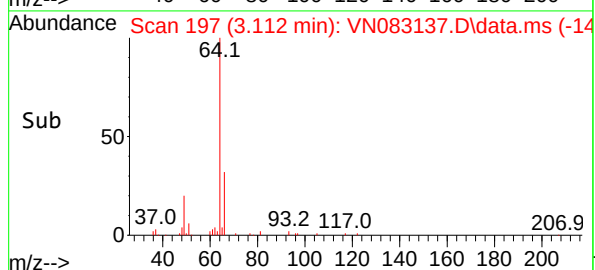
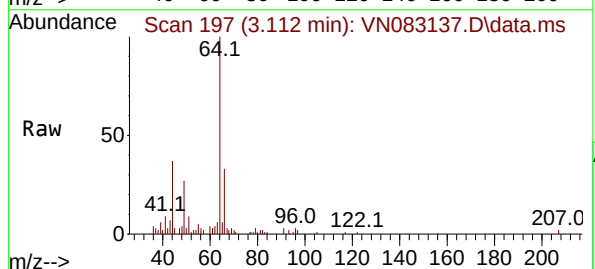
Manual Integrations
APPROVED

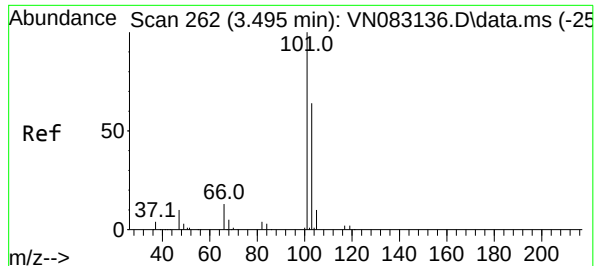
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#6
Chloroethane
Concen: 19.221 ug/l
RT: 3.112 min Scan# 197
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

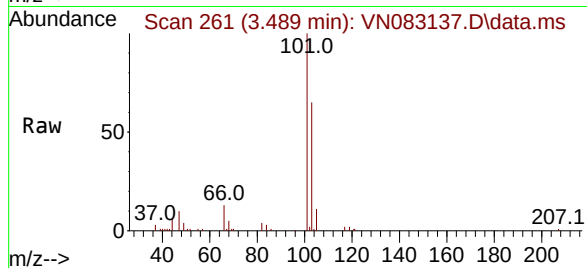
Tgt Ion: 64 Resp: 30331
Ion Ratio Lower Upper
64 100
66 33.0 26.6 40.0





#7
Trichlorofluoromethane
Concen: 20.531 ug/l
RT: 3.489 min Scan# 262
Delta R.T. -0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

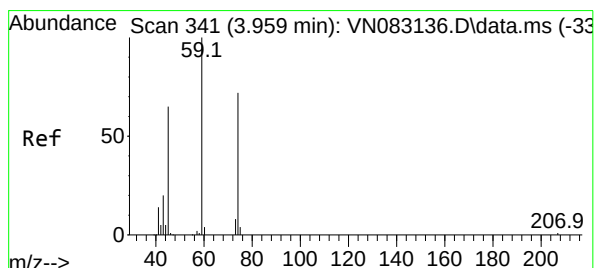
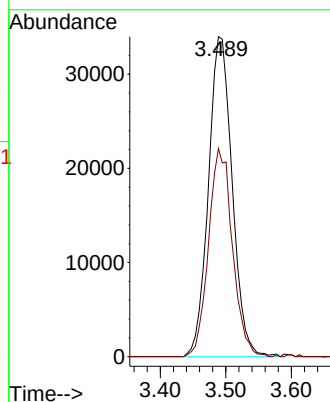
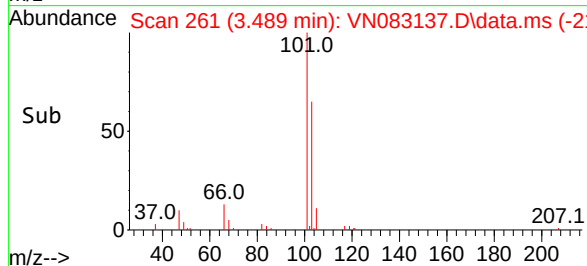
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion:101 Resp: 85550
Ion Ratio Lower Upper
101 100
103 65.0 52.7 79.1

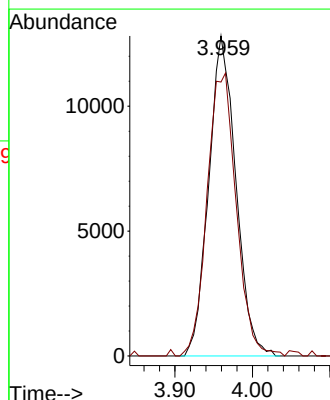
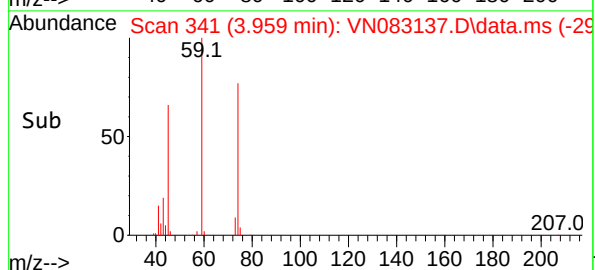
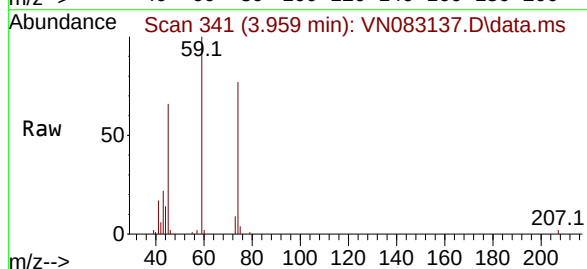
Manual Integrations
APPROVED

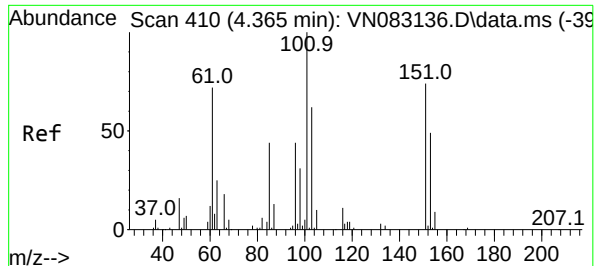
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#8
Diethyl Ether
Concen: 20.158 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 74 Resp: 31256
Ion Ratio Lower Upper
74 100
45 94.8 55.5 166.3





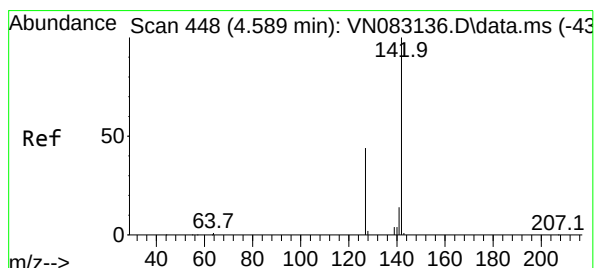
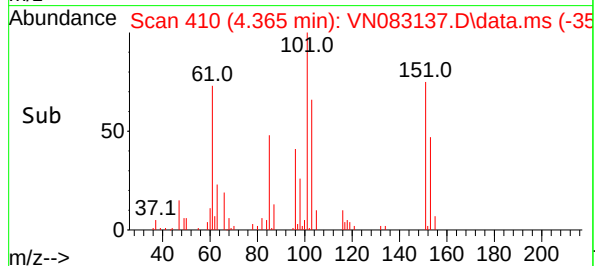
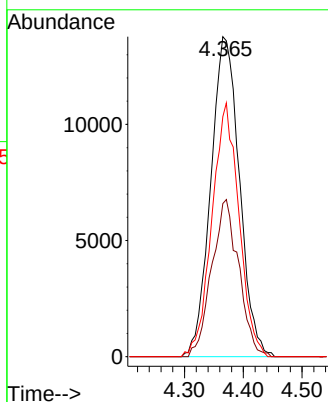
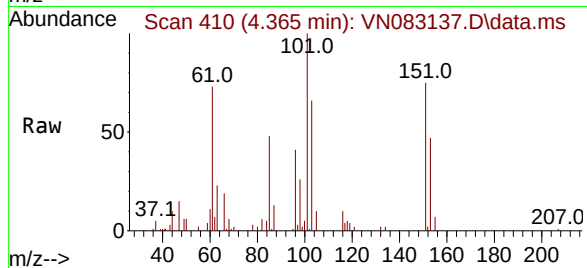
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.321 ug/l
RT: 4.365 min Scan# 410
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 4668
Ion Ratio Lower Upper
101 100
85 46.5 38.3 57.5
151 74.6 59.3 88.9

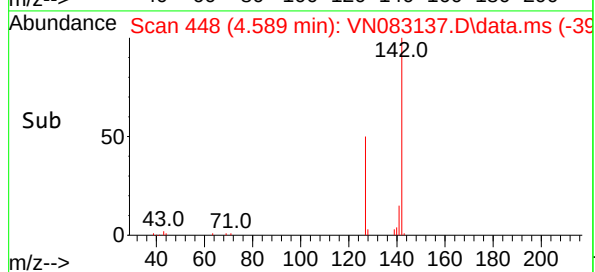
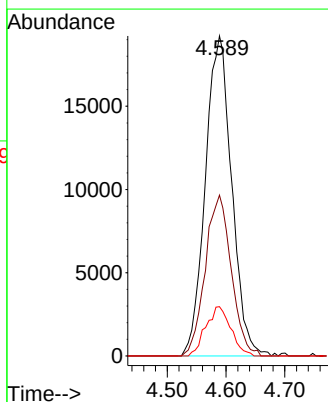
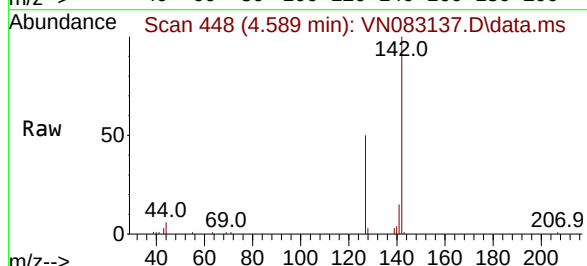
Manual Integrations
APPROVED

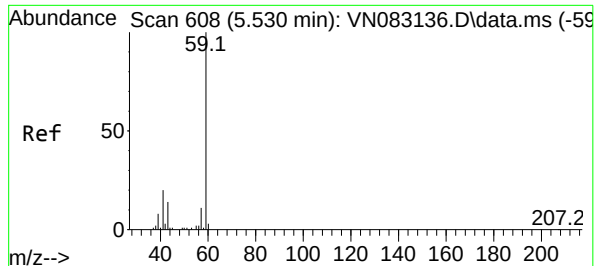
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#10
Methyl Iodide
Concen: 19.810 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:142 Resp: 59865
Ion Ratio Lower Upper
142 100
127 50.3 37.5 56.3
141 15.4 13.1 19.7





#11

Tert butyl alcohol

Concen: 98.946 ug/l

RT: 5.530 min Scan# 608

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 59 Resp: 6231

Ion Ratio Lower Upper

59 100

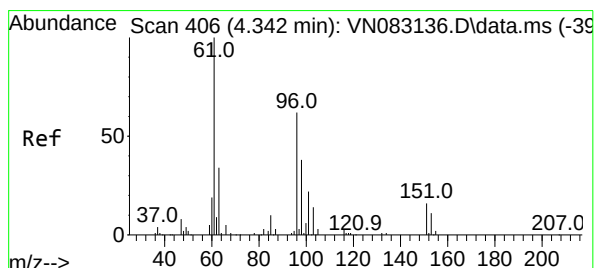
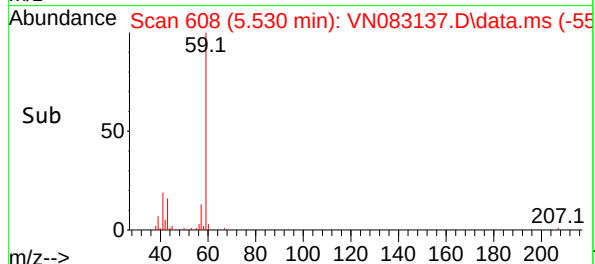
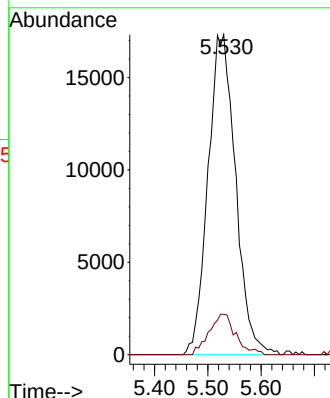
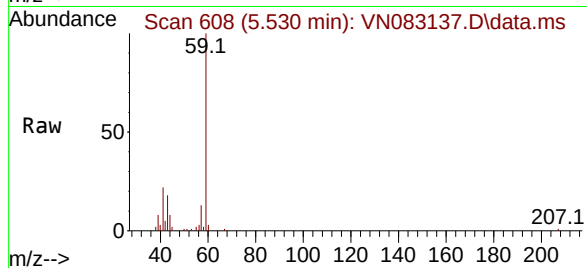
57 12.2 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#12

1,1-Dichloroethene

Concen: 19.399 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

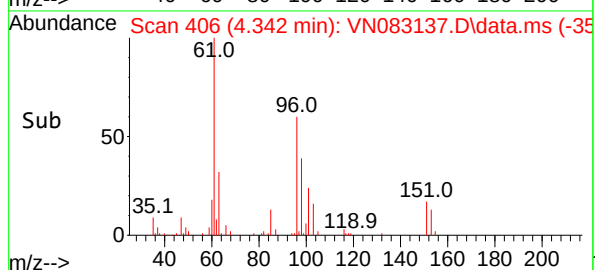
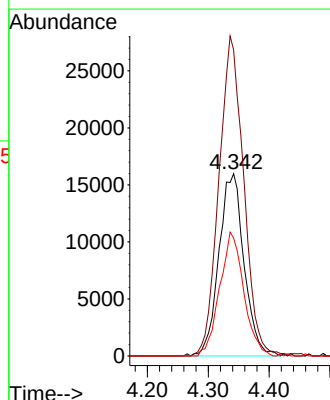
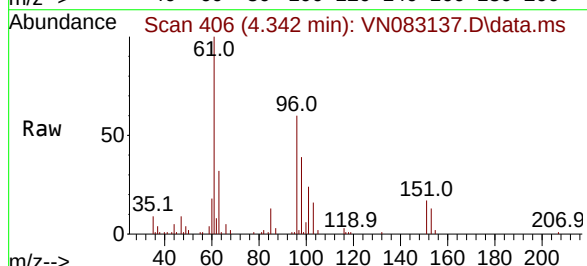
Tgt Ion: 96 Resp: 45786

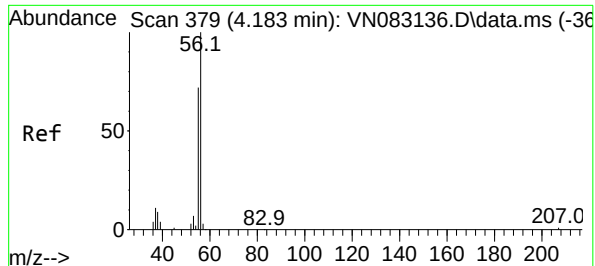
Ion Ratio Lower Upper

96 100

61 167.8 149.7 224.5

98 64.7 50.1 75.1





#13

Acrolein

Concen: 86.524 ug/l

RT: 4.183 min Scan# 379

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 56 Resp: 35510

Ion Ratio Lower Upper

56 100

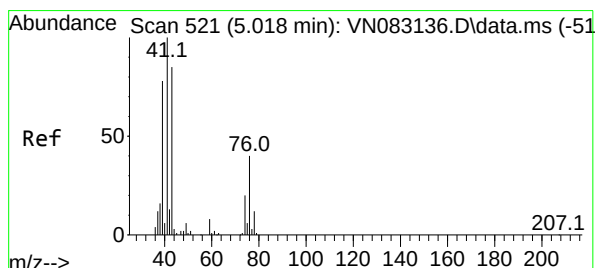
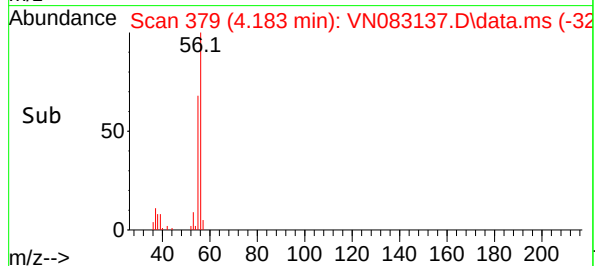
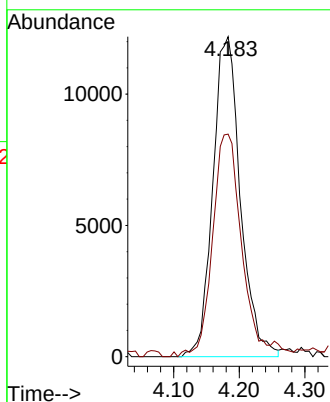
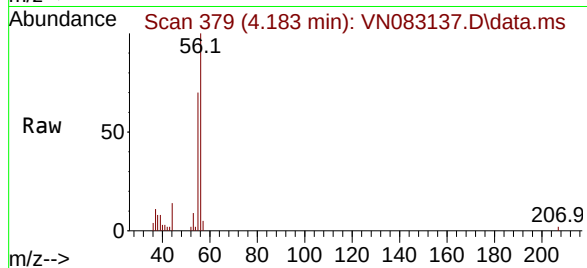
55 72.6 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#14

Allyl chloride

Concen: 20.301 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

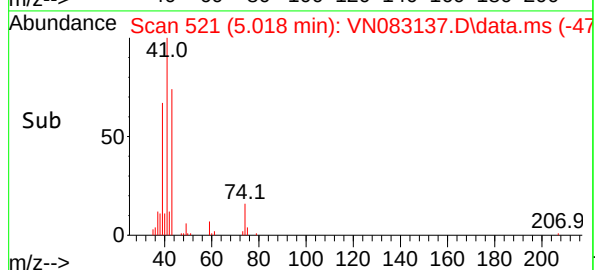
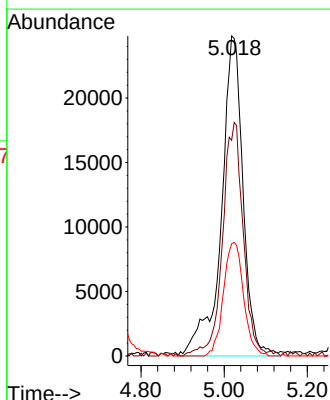
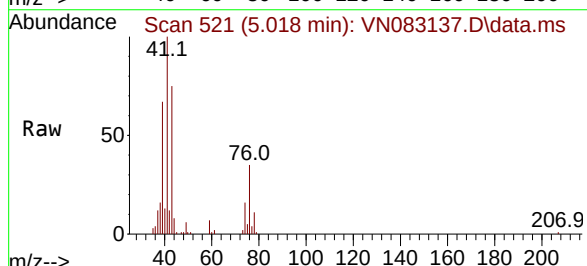
Tgt Ion: 41 Resp: 90544

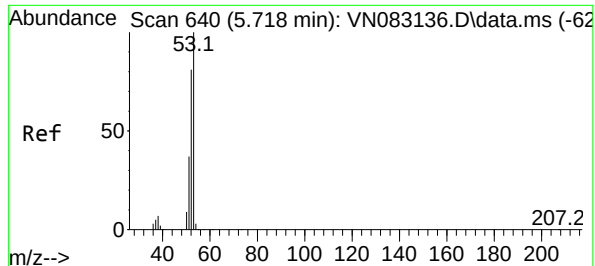
Ion Ratio Lower Upper

41 100

39 69.0 67.8 101.6

76 32.7 25.8 38.8





#15

Acrylonitrile

Concen: 99.835 ug/l

RT: 5.718 min Scan# 640

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 53 Resp: 129310

Ion Ratio Lower Upper

53 100

52 82.1 66.6 100.0

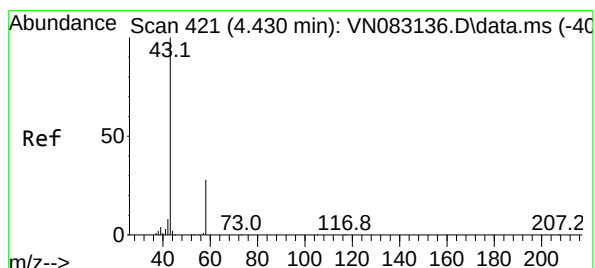
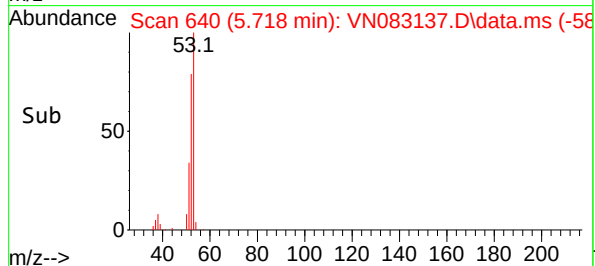
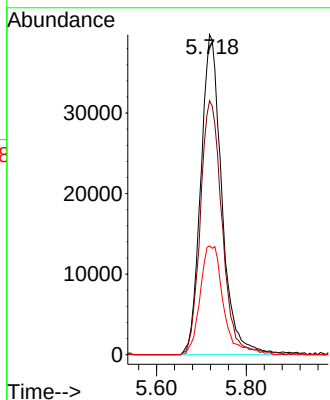
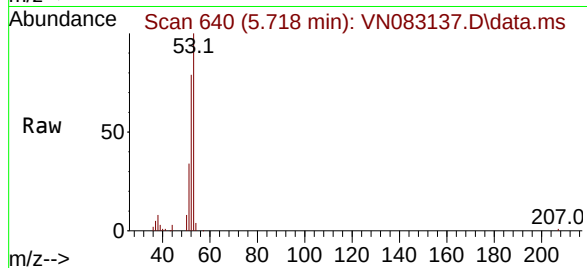
51 37.7 30.1 45.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#16

Acetone

Concen: 93.330 ug/l

RT: 4.430 min Scan# 421

Delta R.T. 0.000 min

Lab File: VN083137.D

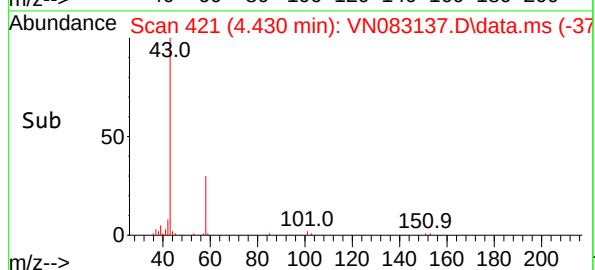
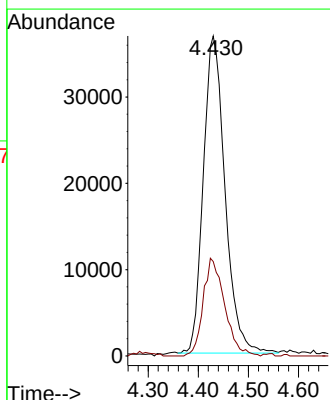
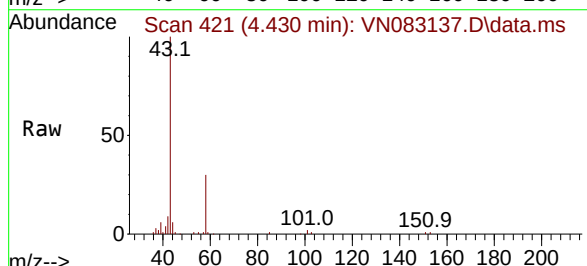
Acq: 07 Aug 2024 11:22

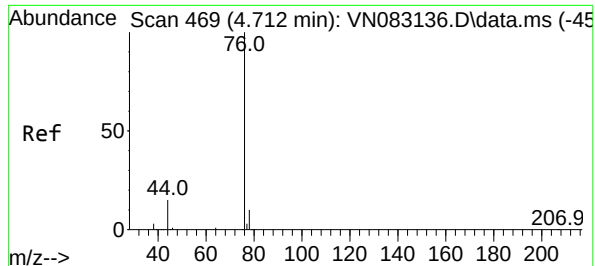
Tgt Ion: 43 Resp: 110676

Ion Ratio Lower Upper

43 100

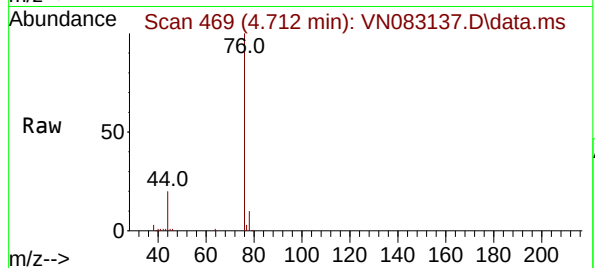
58 29.8 21.8 32.6





#17
Carbon Disulfide
Concen: 19.683 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

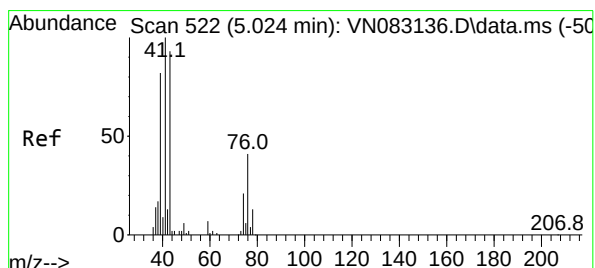
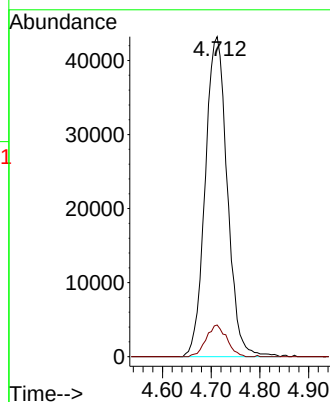
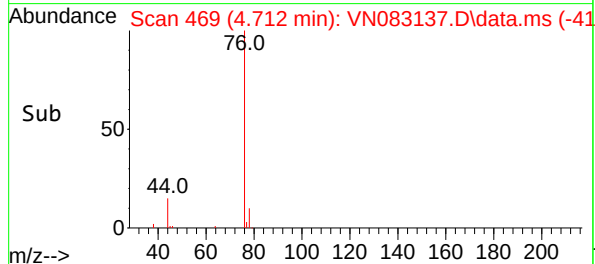
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 76 Resp: 135927
Ion Ratio Lower Upper
76 100
78 9.9 7.2 10.8

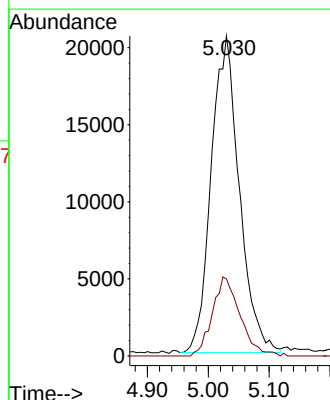
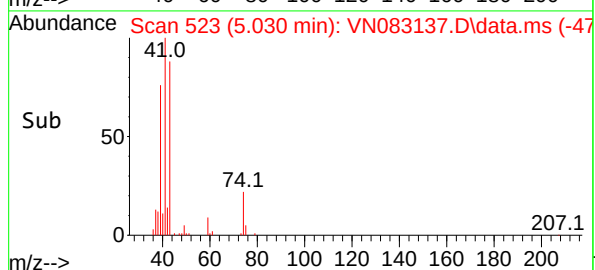
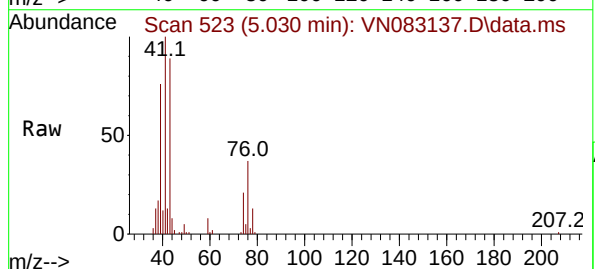
Manual Integrations
APPROVED

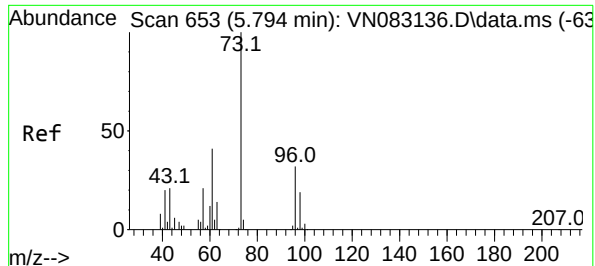
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#18
Methyl Acetate
Concen: 18.644 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 43 Resp: 65871
Ion Ratio Lower Upper
43 100
74 24.5 16.3 24.5





#19

Methyl tert-butyl Ether

Concen: 20.277 ug/l

RT: 5.800 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 73 Resp: 172740

Ion Ratio Lower Upper

73 100

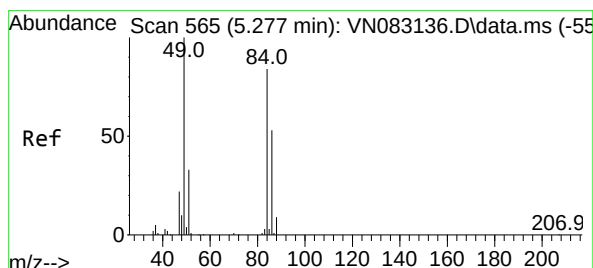
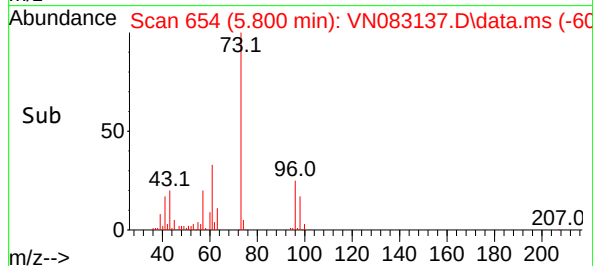
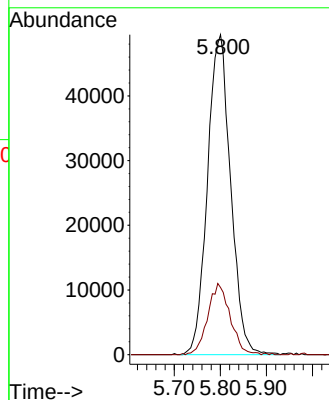
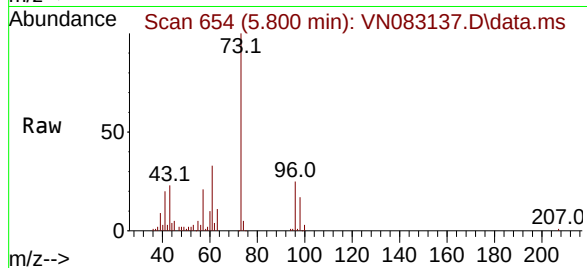
57 21.0 17.9 26.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#20

Methylene Chloride

Concen: 19.316 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.006 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Tgt Ion: 84 Resp: 52716

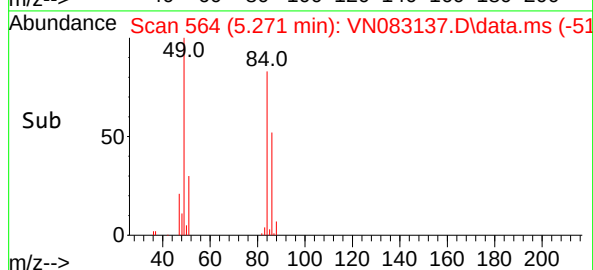
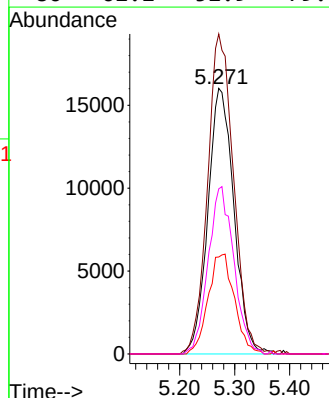
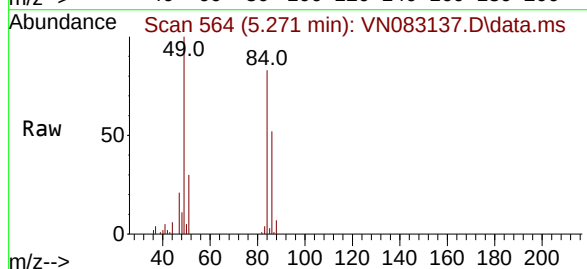
Ion Ratio Lower Upper

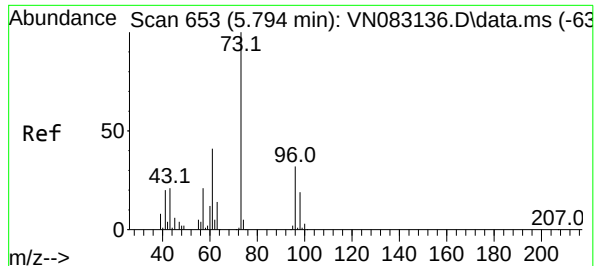
84 100

49 120.5 119.6 179.4

51 36.5 34.8 52.2

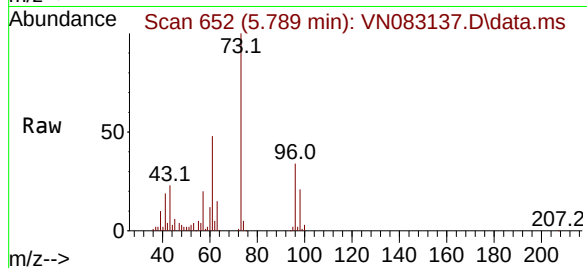
86 62.2 52.9 79.3





#21
trans-1,2-Dichloroethene
Concen: 20.137 ug/l
RT: 5.789 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

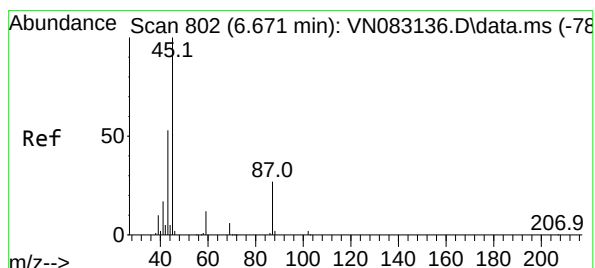
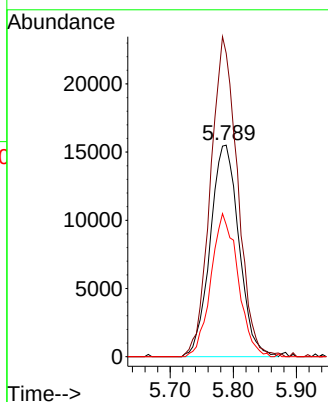
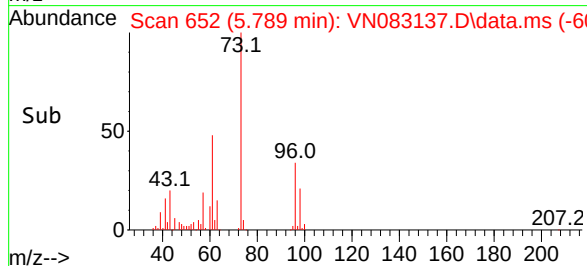
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 96 Resp: 4912
Ion Ratio Lower Upper
96 100
61 143.3 123.4 185.2
98 62.4 49.3 73.9

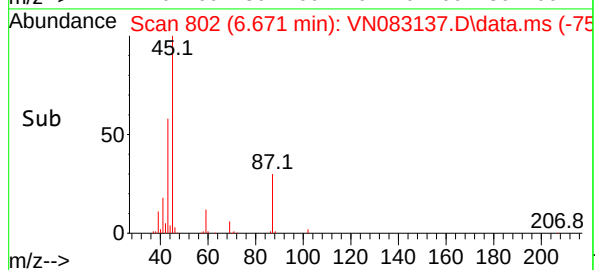
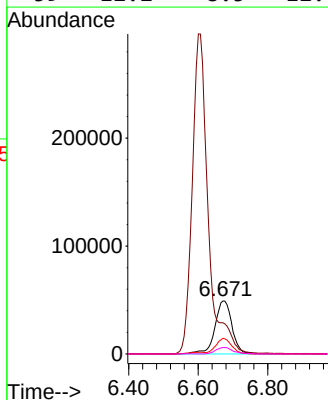
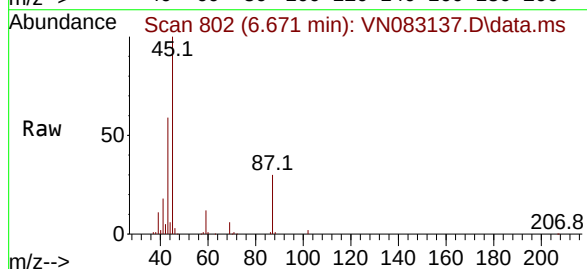
Manual Integrations
APPROVED

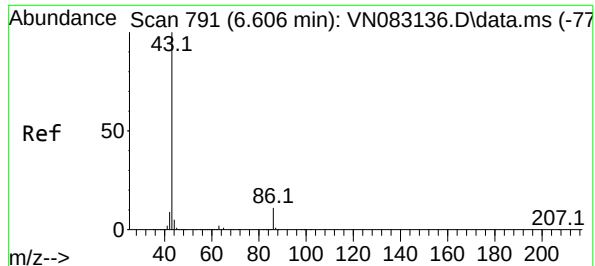
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#22
Diisopropyl ether
Concen: 20.070 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

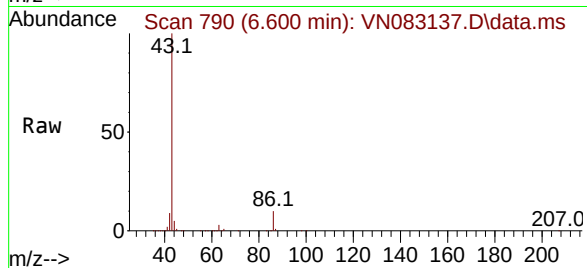
Tgt Ion: 45 Resp: 168267
Ion Ratio Lower Upper
45 100
43 57.6 44.0 66.0
87 29.6 19.7 29.5#
59 12.2 8.5 12.7





#23
Vinyl Acetate
Concen: 101.401 ug/l m
RT: 6.600 min Scan# 791
Delta R.T. -0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

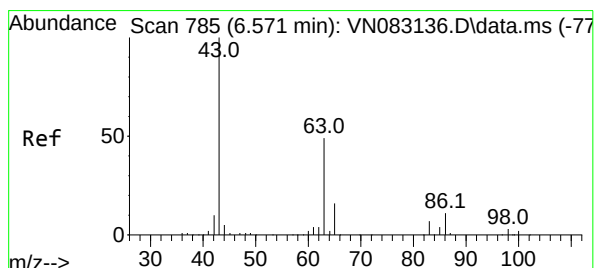
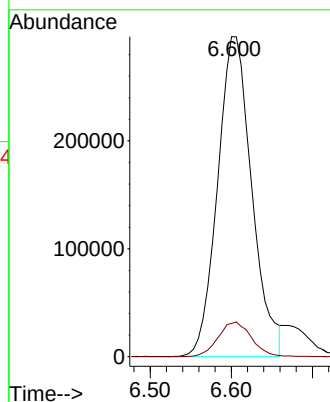
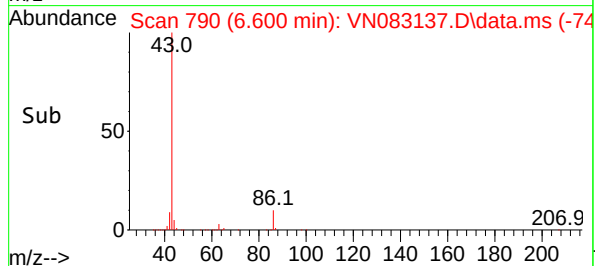
Instrument :
MSVOA_N
Client Sample Id :
VSTDICC020



Tgt Ion: 43 Resp: 871215
Ion Ratio Lower Upper
43 100
86 10.4 7.3 10.9

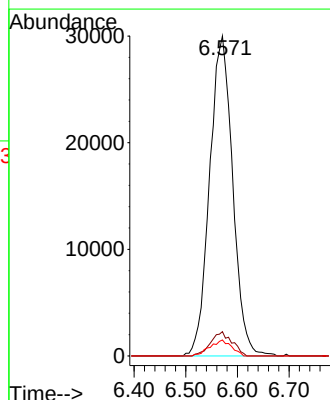
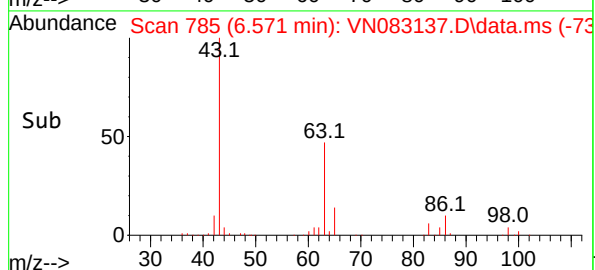
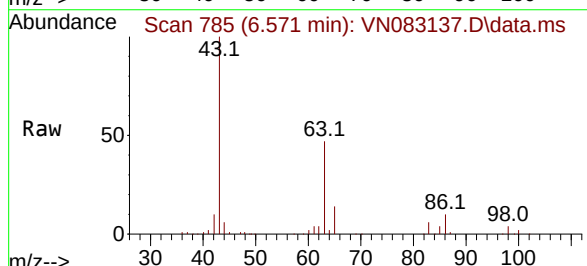
Manual Integrations
APPROVED

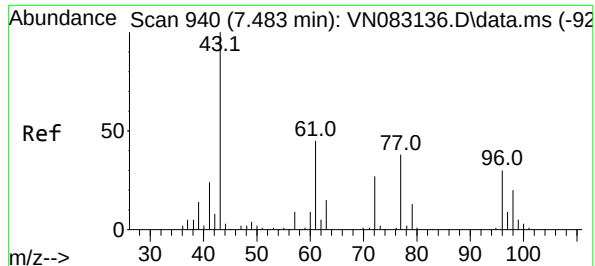
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#24
1,1-Dichloroethane
Concen: 20.366 ug/l
RT: 6.571 min Scan# 785
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 63 Resp: 93066
Ion Ratio Lower Upper
63 100
98 7.6 3.3 9.9
100 5.0 2.0 6.0





#25

2-Butanone

Concen: 99.107 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 180458

Ion Ratio Lower Upper

43 100

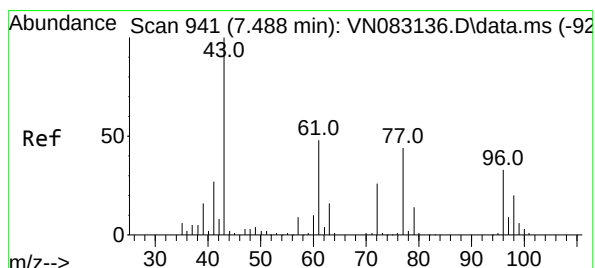
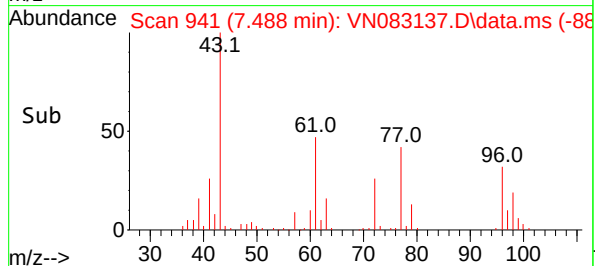
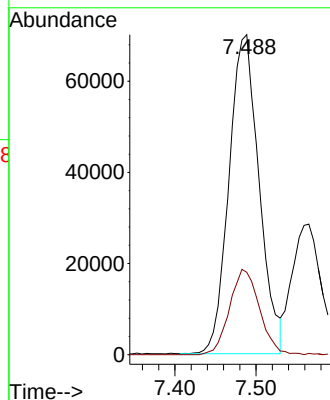
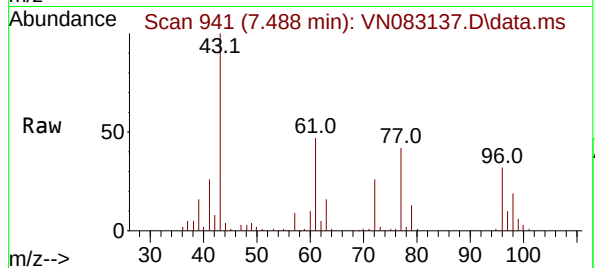
72 25.9 18.2 27.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#26

2,2-Dichloropropane

Concen: 20.445 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.000 min

Lab File: VN083137.D

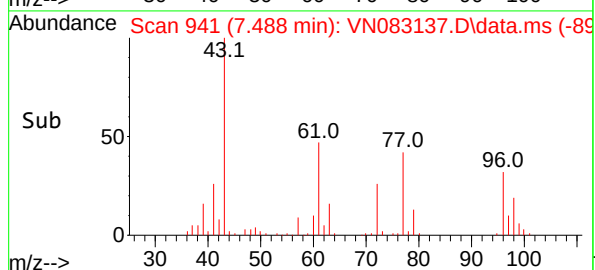
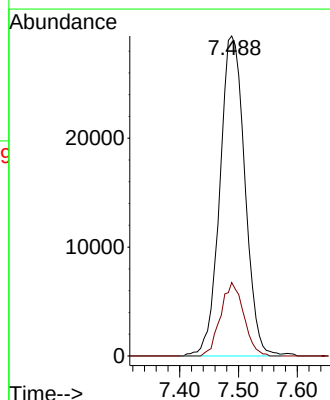
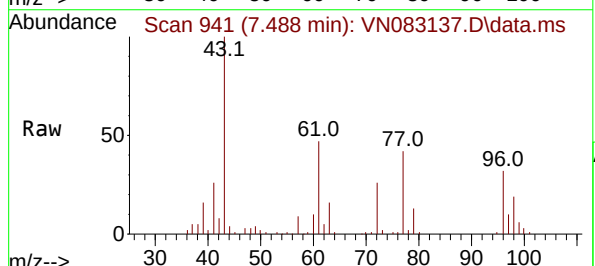
Acq: 07 Aug 2024 11:22

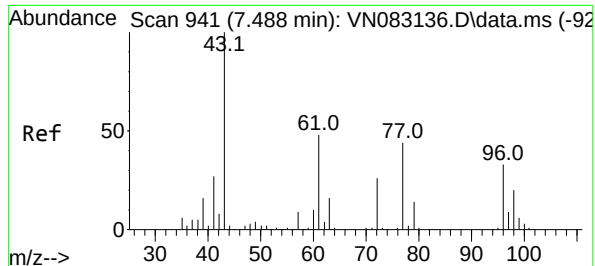
Tgt Ion: 77 Resp: 86767

Ion Ratio Lower Upper

77 100

97 21.3 10.3 30.9





#27

cis-1,2-Dichloroethene

Concen: 19.993 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 96 Resp: 5885

Ion Ratio Lower Upper

96 100

61 149.6 0.0 329.6

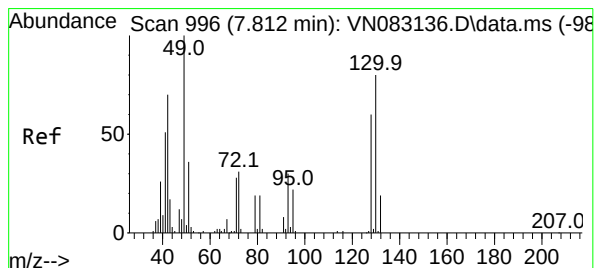
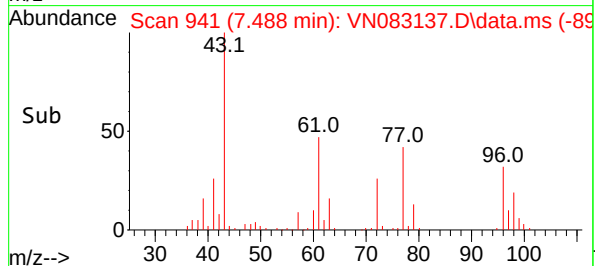
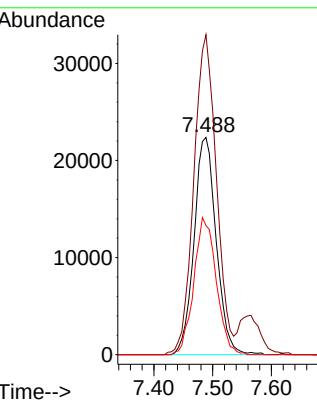
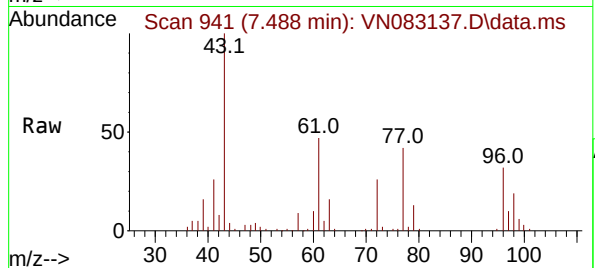
98 63.7 0.0 128.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#28

Bromochloromethane

Concen: 19.153 ug/l

RT: 7.812 min Scan# 996

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

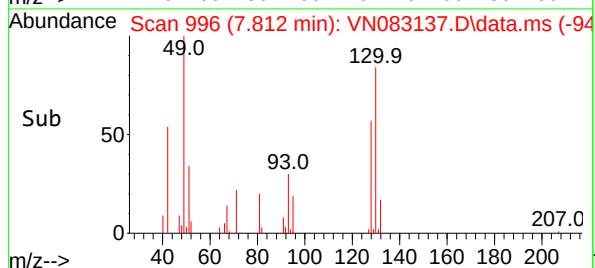
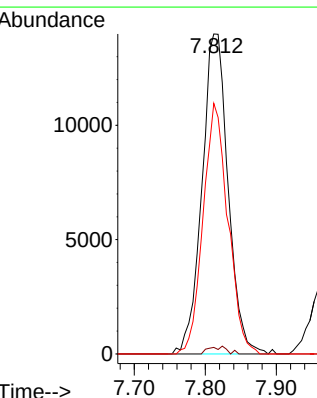
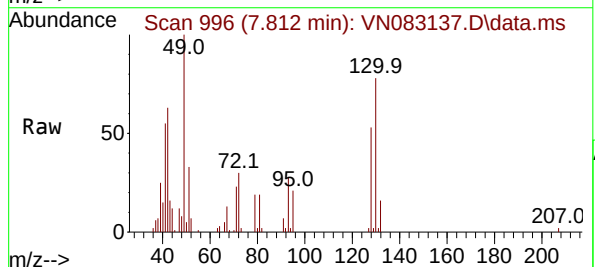
Tgt Ion: 49 Resp: 35768

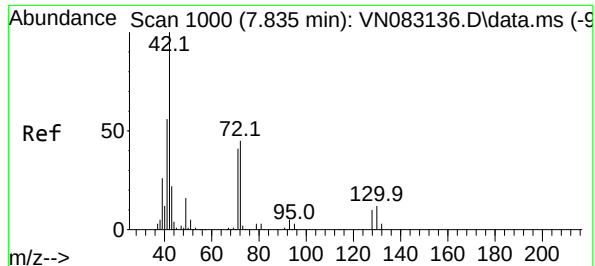
Ion Ratio Lower Upper

49 100

129 1.6 0.0 3.8

130 74.4 50.5 75.7





#29

Tetrahydrofuran

Concen: 98.399 ug/l

RT: 7.841 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 42 Resp: 11582

Ion Ratio Lower Upper

42 100

72 45.8 30.0 45.0

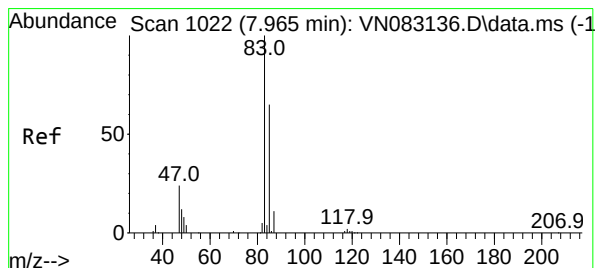
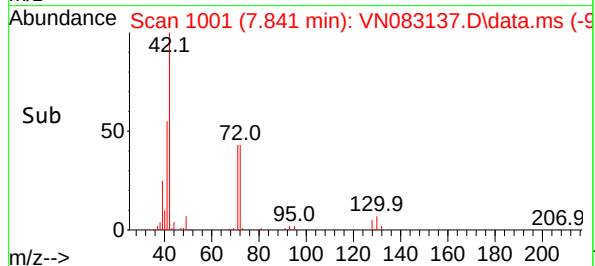
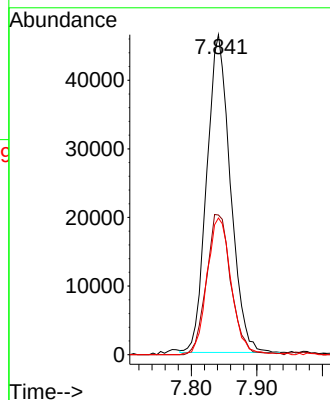
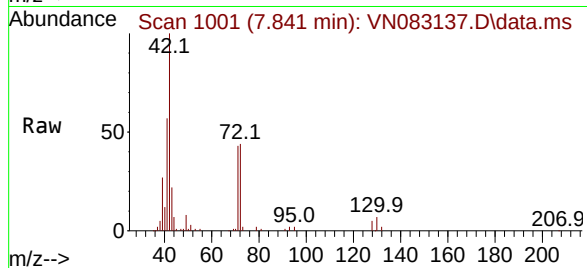
71 44.0 28.3 42.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#30

Chloroform

Concen: 19.917 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.000 min

Lab File: VN083137.D

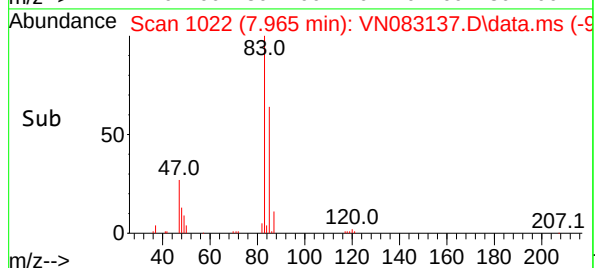
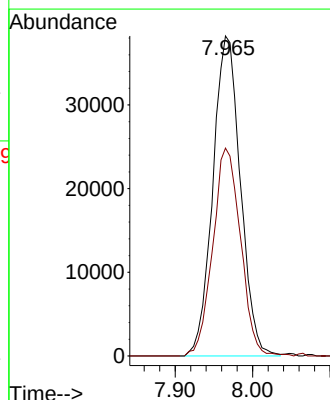
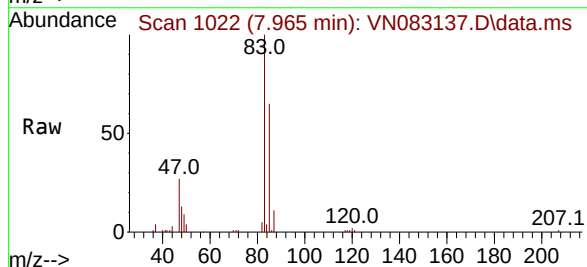
Acq: 07 Aug 2024 11:22

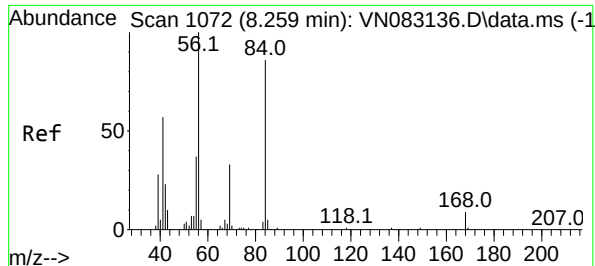
Tgt Ion: 83 Resp: 94560

Ion Ratio Lower Upper

83 100

85 64.9 50.9 76.3





#31

Cyclohexane

Concen: 19.144 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.006 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 56 Resp: 85978

Ion Ratio Lower Upper

56 100

69 30.4 24.5 36.7

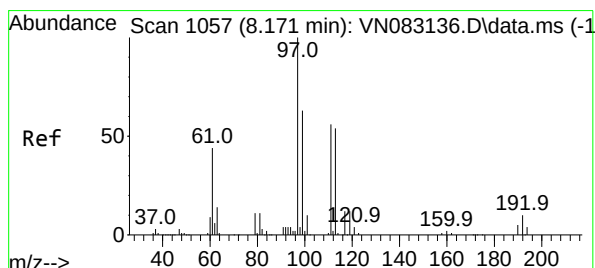
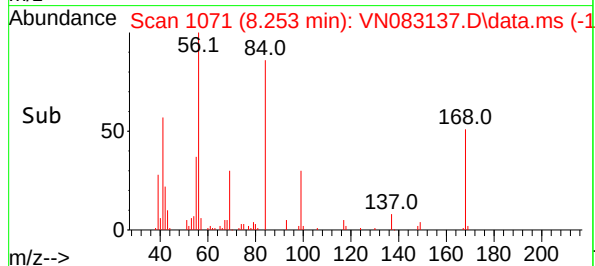
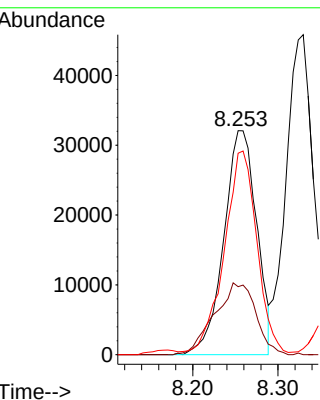
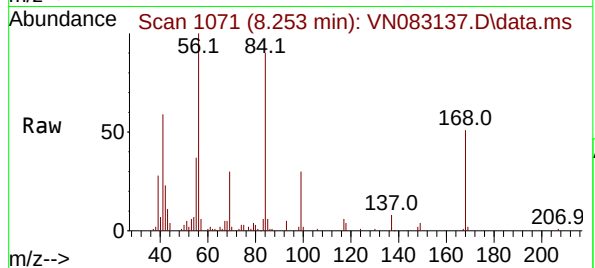
84 87.9 66.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#32

1,1,1-Trichloroethane

Concen: 20.194 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

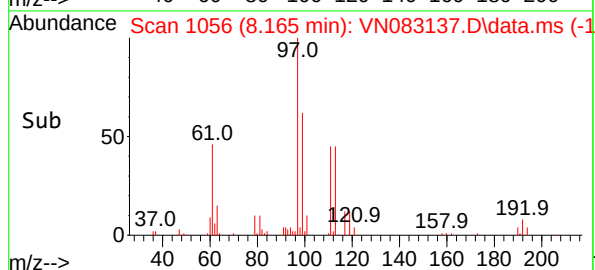
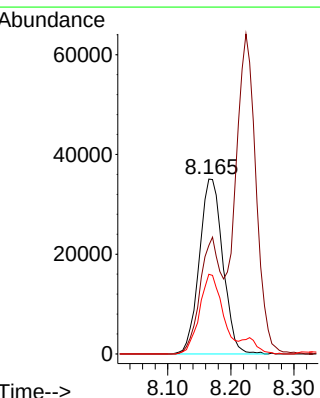
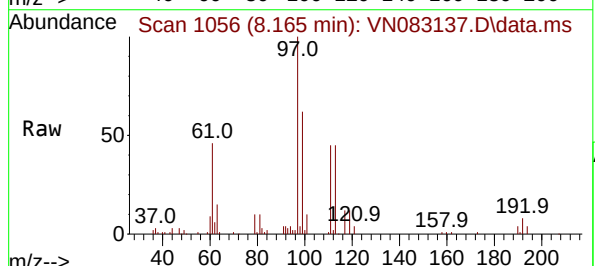
Tgt Ion: 97 Resp: 90748

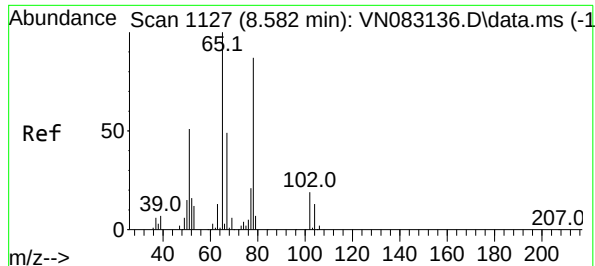
Ion Ratio Lower Upper

97 100

99 58.9 52.0 78.0

61 45.3 42.1 63.1





#33

1,2-Dichloroethane-d4

Concen: 16.881 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 65 Resp: 5115

Ion Ratio Lower Upper

65 100

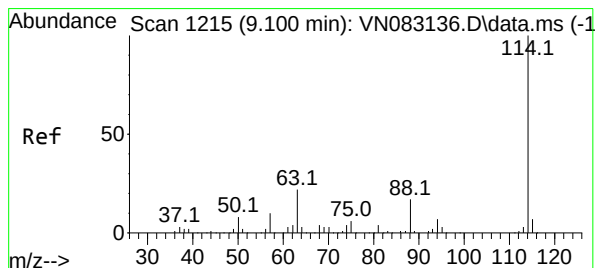
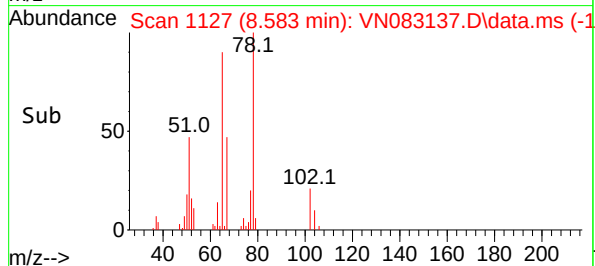
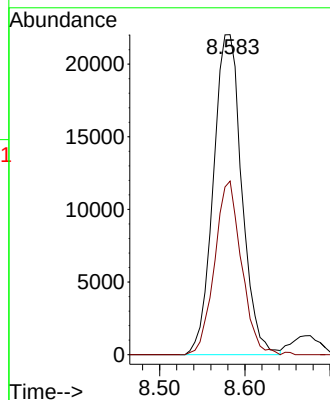
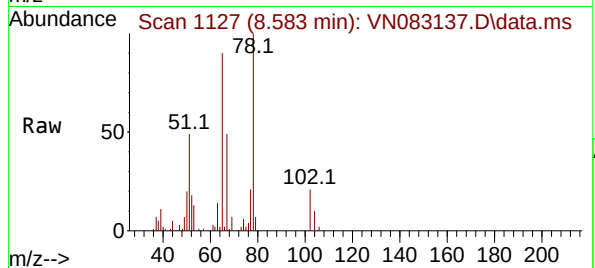
67 51.1 0.0 104.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

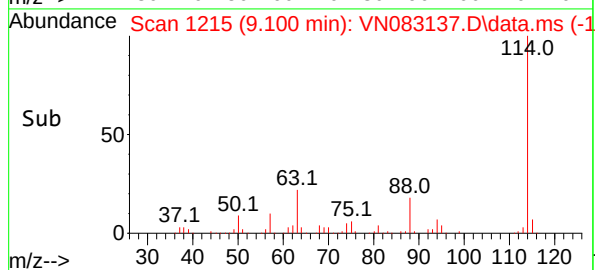
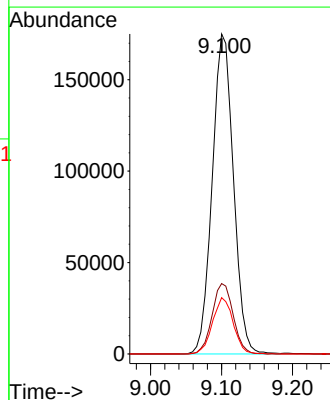
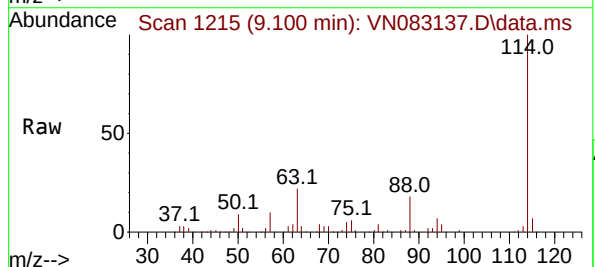
Tgt Ion:114 Resp: 362741

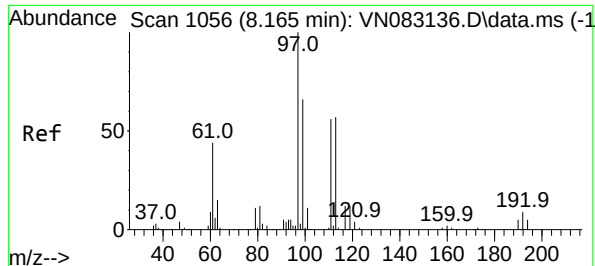
Ion Ratio Lower Upper

114 100

63 22.0 0.0 44.6

88 17.6 0.0 31.4





#35

Dibromofluoromethane

Concen: 16.940 ug/l

RT: 8.171 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

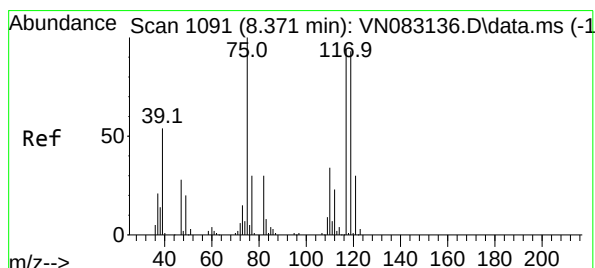
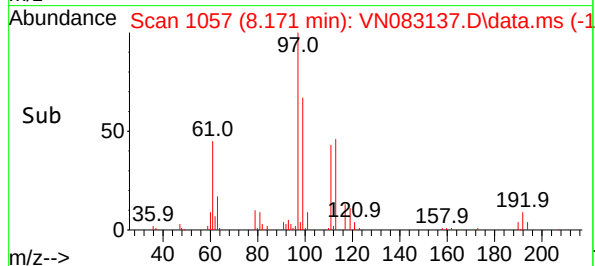
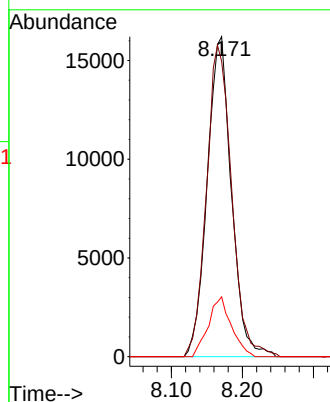
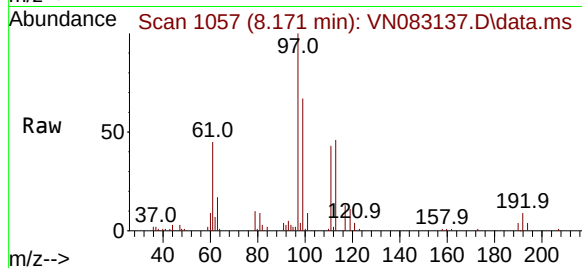
Tgt Ion:	113	Resp:	38354
Ion	Ratio	Lower	Upper
113	100		
111	101.3	82.4	123.6
192	17.8	14.9	22.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#36

1,1-Dichloropropene

Concen: 19.978 ug/l

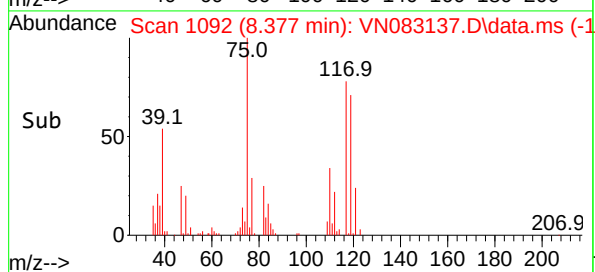
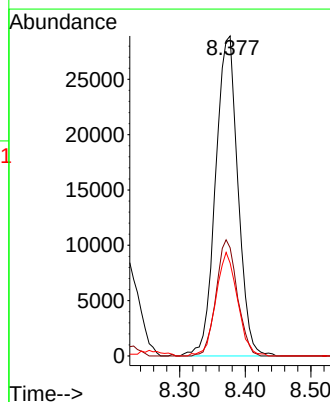
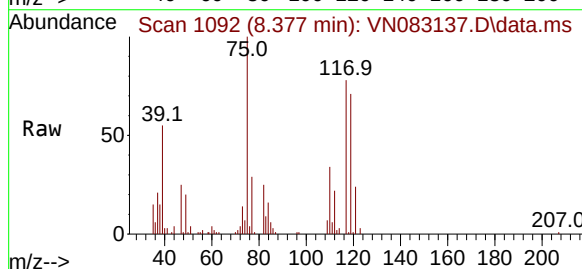
RT: 8.377 min Scan# 1092

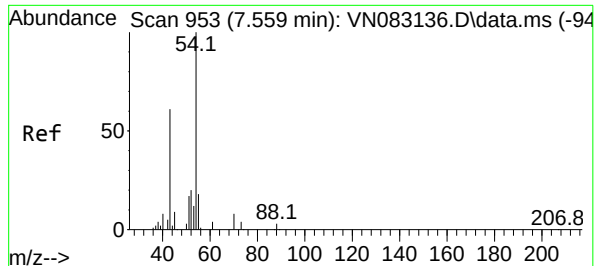
Delta R.T. 0.006 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Tgt Ion:	75	Resp:	68425
Ion	Ratio	Lower	Upper
75	100		
110	34.3	16.3	48.9
77	31.3	24.6	37.0





#37

Ethyl Acetate

Concen: 18.985 ug/l

RT: 7.565 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 72800

Ion Ratio Lower Upper

43 100

61 14.3 9.3 13.9

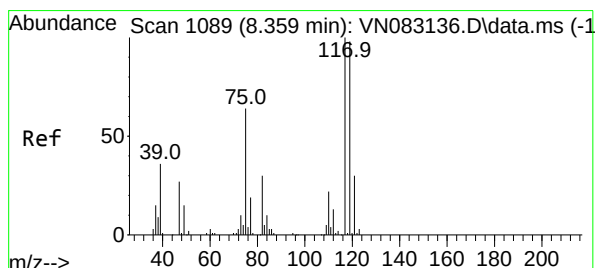
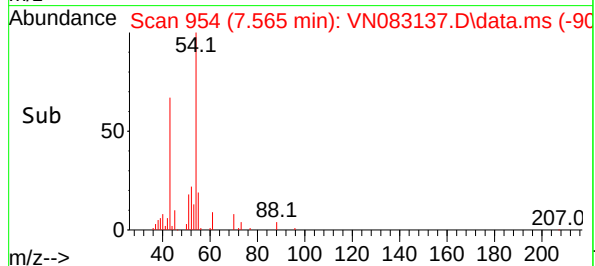
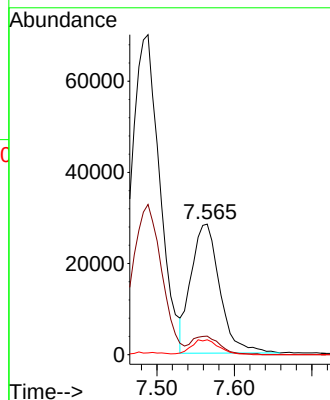
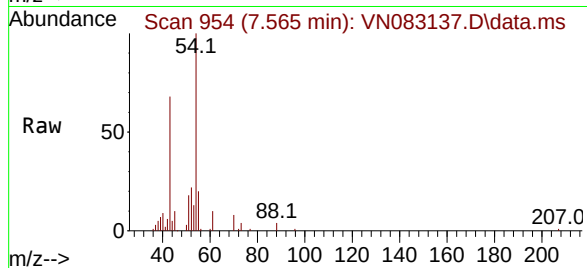
70 11.2 7.0 10.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#38

Carbon Tetrachloride

Concen: 20.605 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

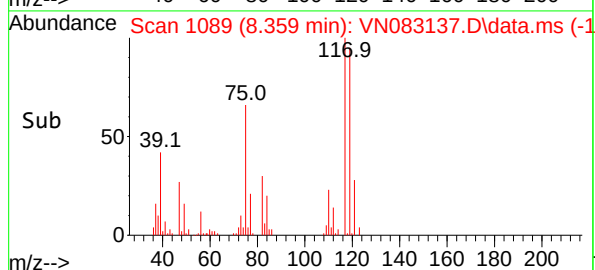
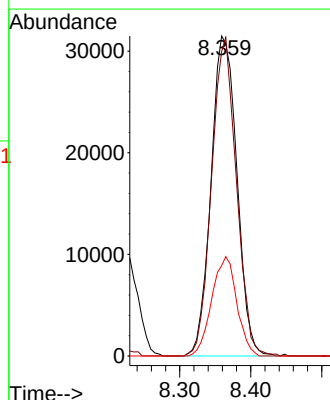
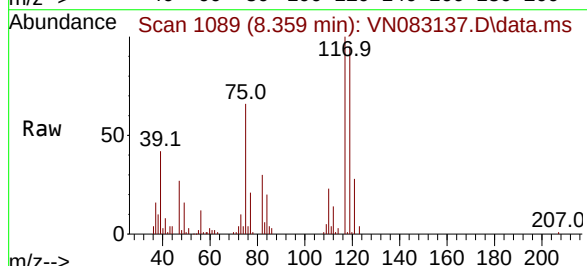
Tgt Ion:117 Resp: 79487

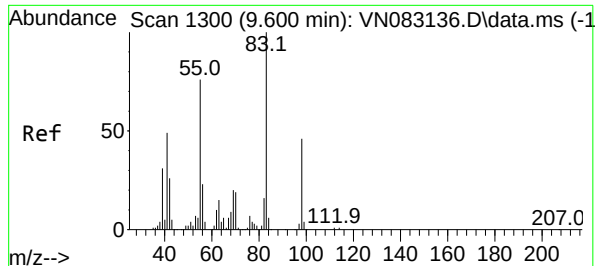
Ion Ratio Lower Upper

117 100

119 95.1 74.9 112.3

121 28.3 24.3 36.5





#39

Methylcyclohexane

Concen: 20.246 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

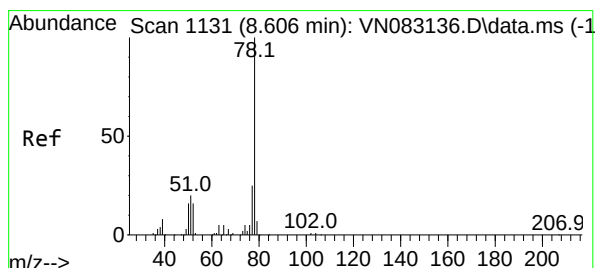
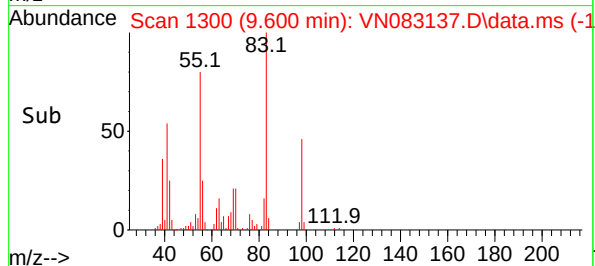
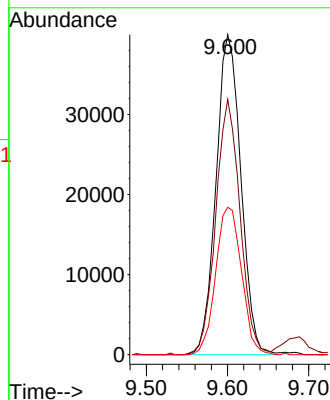
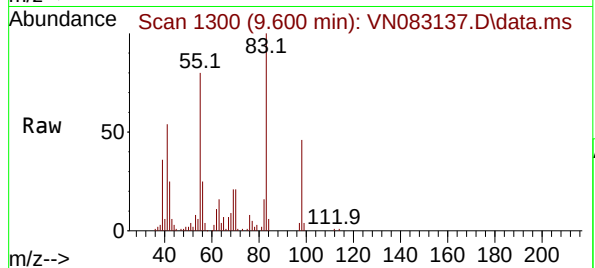
Tgt Ion:	83	Resp:	8517
Ion	Ratio	Lower	Upper
83	100		
55	79.7	66.4	99.6
98	46.1	40.7	61.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#40

Benzene

Concen: 20.345 ug/l

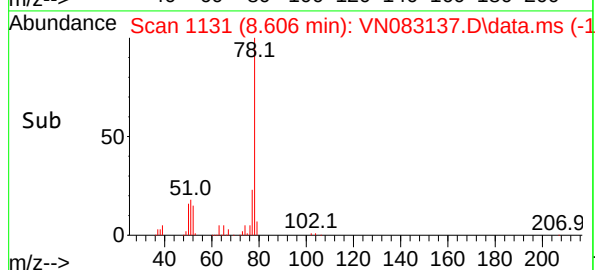
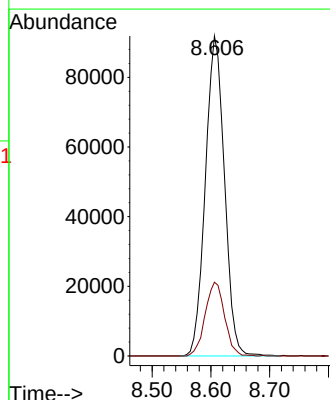
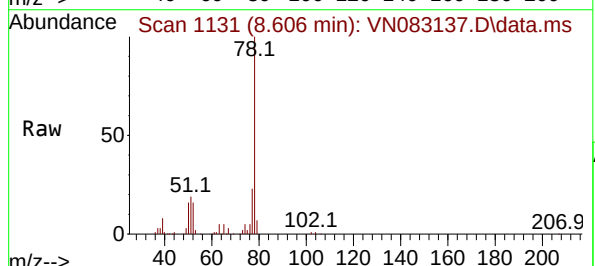
RT: 8.606 min Scan# 1131

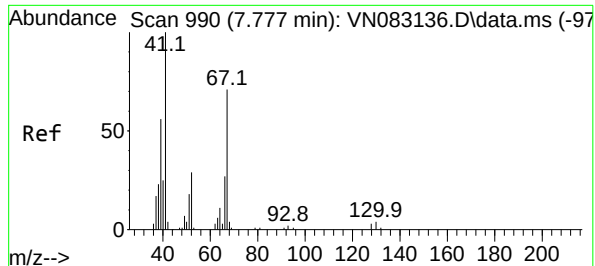
Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

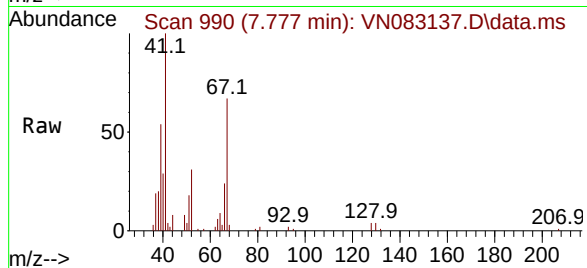
Tgt Ion:	78	Resp:	207581
Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.0	28.4





#41
Methacrylonitrile
Concen: 19.968 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

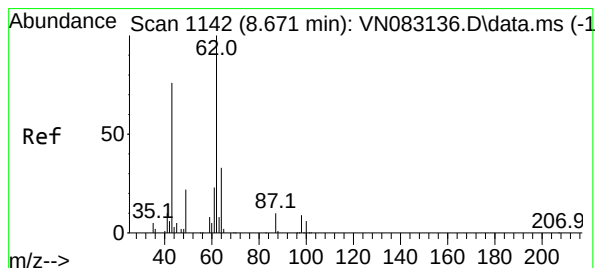
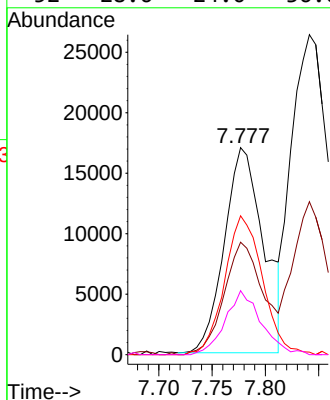
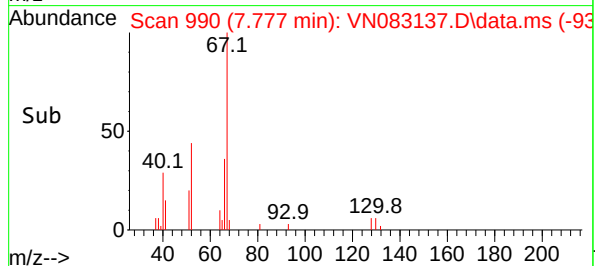
Instrument :
MSVOA_N
Client Sample Id :
VSTDICC020



Tgt Ion: 41 Resp: 43539
Ion Ratio Lower Upper
41 100
39 54.6 45.5 68.3
67 65.2 50.5 75.7
52 28.6 24.0 36.0

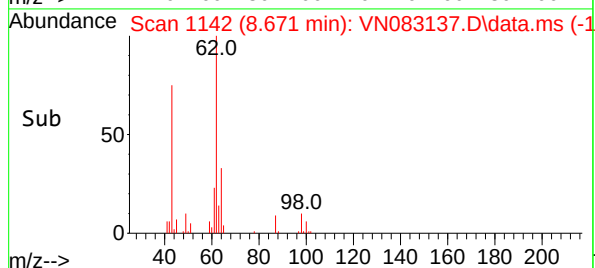
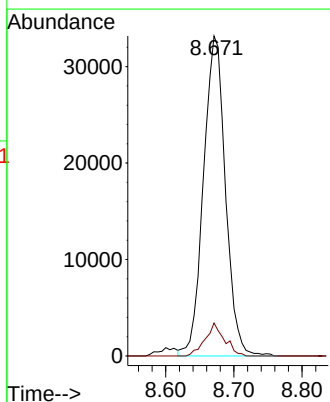
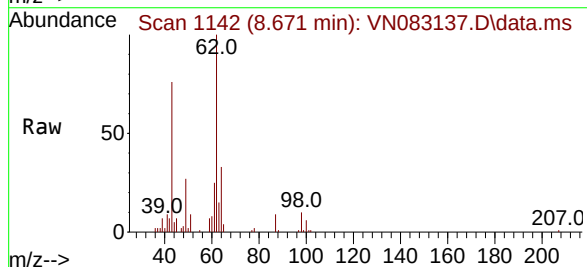
Manual Integrations
APPROVED

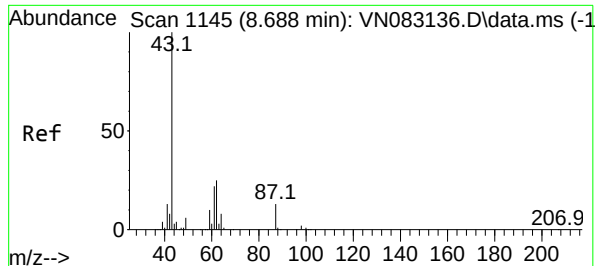
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#42
1,2-Dichloroethane
Concen: 20.062 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 62 Resp: 74567
Ion Ratio Lower Upper
62 100
98 9.0 0.0 15.8





#43

Isopropyl Acetate

Concen: 19.459 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

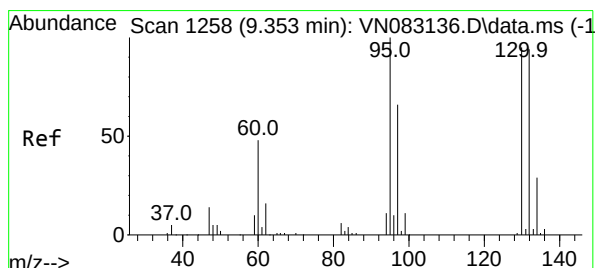
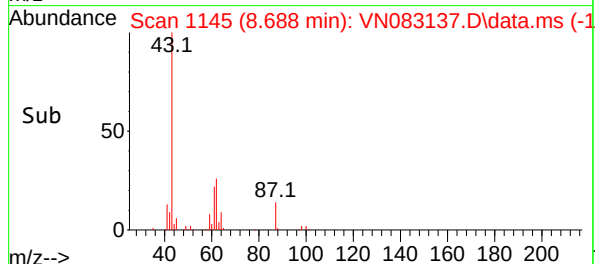
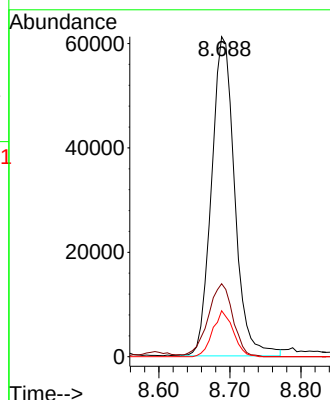
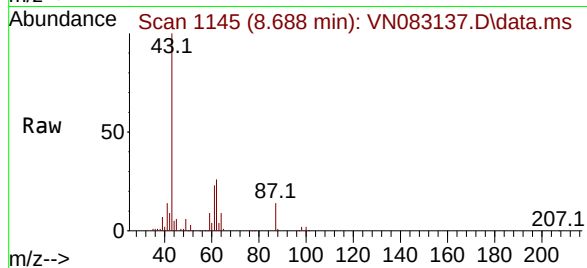
Tgt Ion:	43	Resp:	13871
Ion	Ratio	Lower	Upper
43	100		
61	24.5	17.8	26.6
87	12.7	8.2	12.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#44

Trichloroethene

Concen: 20.469 ug/l

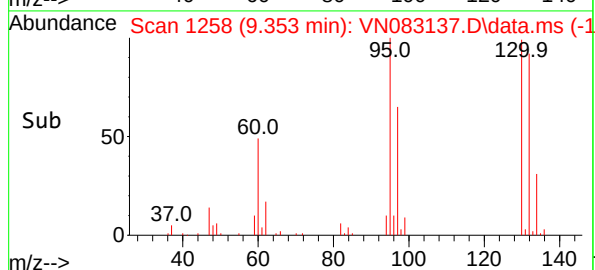
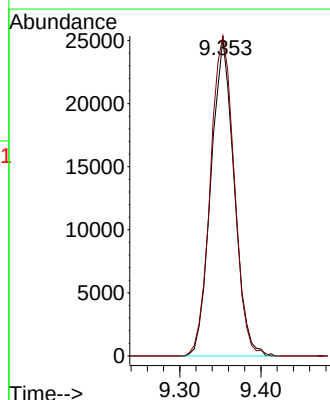
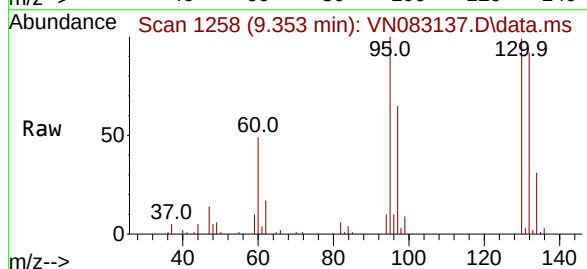
RT: 9.353 min Scan# 1258

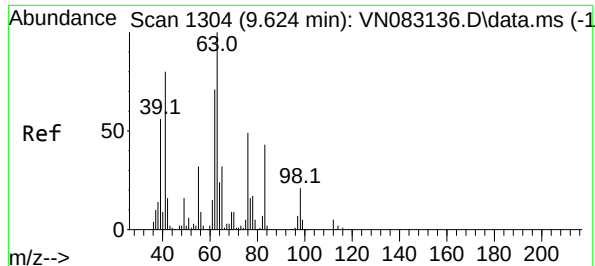
Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Tgt Ion:	130	Resp:	49712
Ion	Ratio	Lower	Upper
130	100		
95	101.0	0.0	197.8





#45

1,2-Dichloropropane

Concen: 20.594 ug/l

RT: 9.624 min Scan# 1304

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 63 Resp: 49878

Ion Ratio Lower Upper

63 100

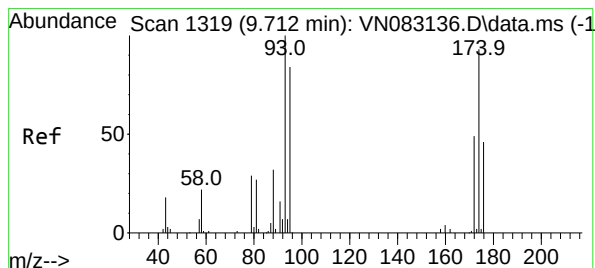
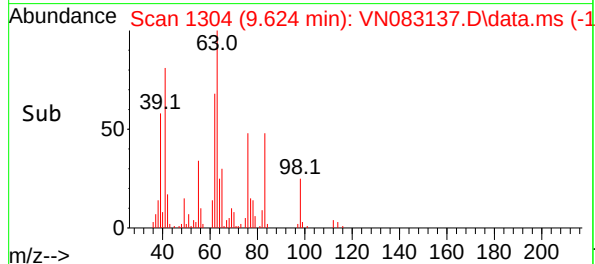
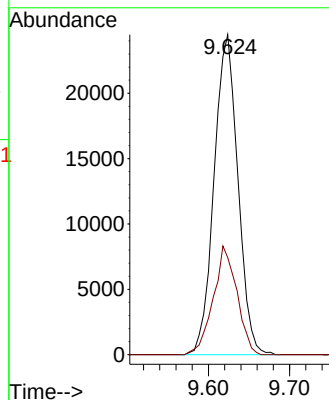
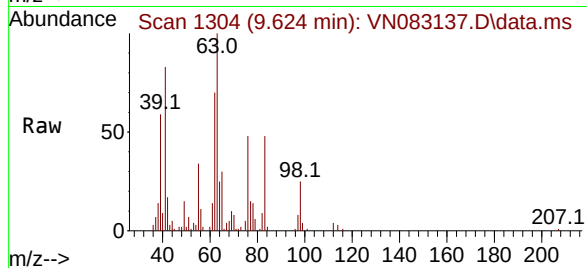
65 30.4 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#46

Dibromomethane

Concen: 20.512 ug/l

RT: 9.712 min Scan# 1319

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

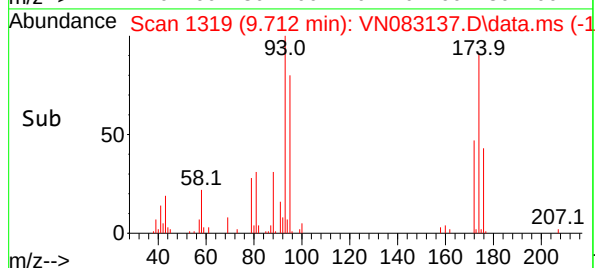
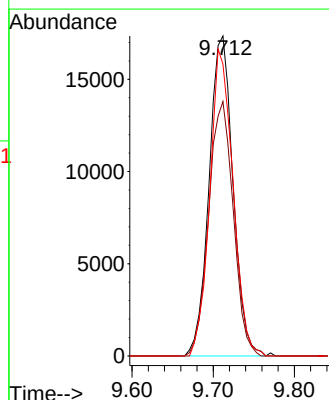
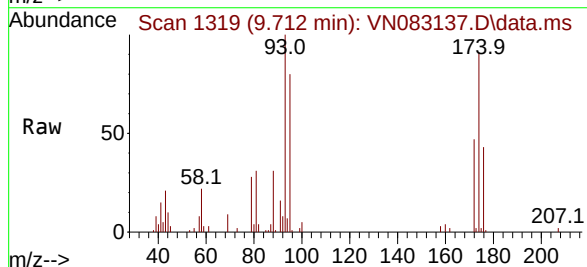
Tgt Ion: 93 Resp: 35560

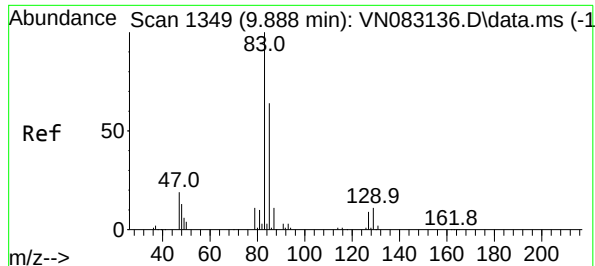
Ion Ratio Lower Upper

93 100

95 81.8 65.8 98.6

174 92.9 71.7 107.5





#47

Bromodichloromethane

Concen: 20.147 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

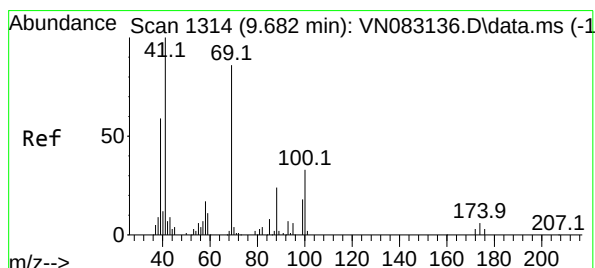
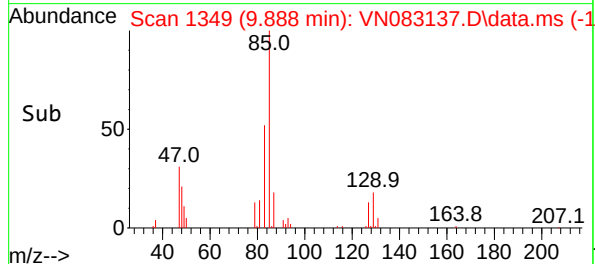
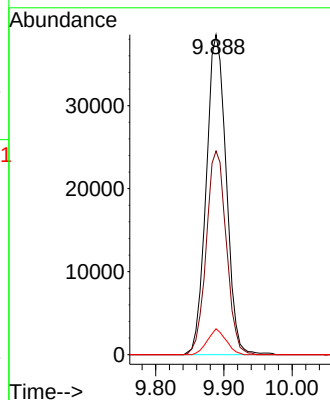
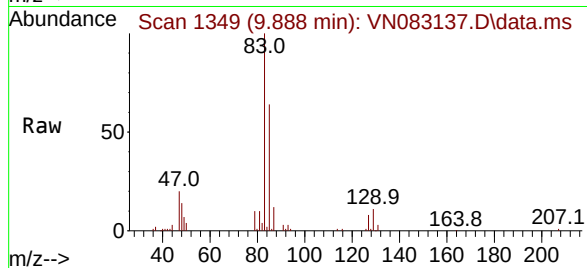
Tgt Ion:	83	Resp:	7842
Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.1	76.7
127	8.1	7.2	10.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#48

Methyl methacrylate

Concen: 19.254 ug/l

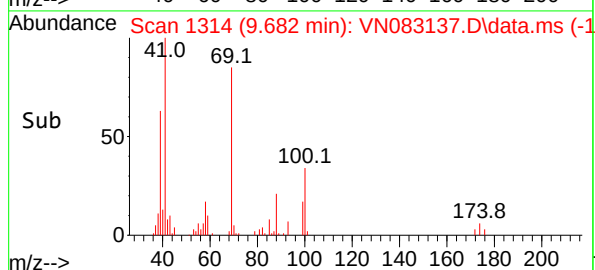
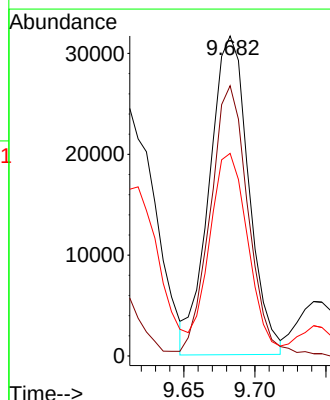
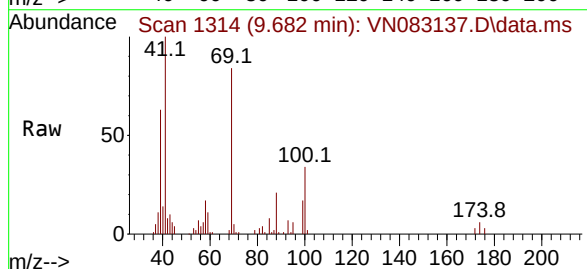
RT: 9.682 min Scan# 1314

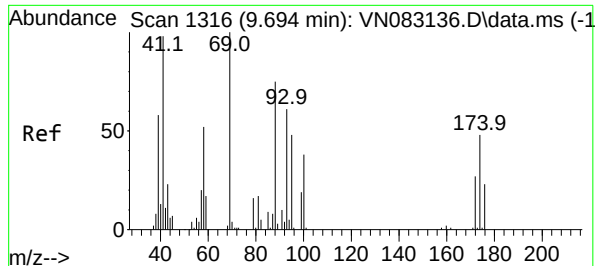
Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Tgt Ion:	41	Resp:	61044
Ion	Ratio	Lower	Upper
41	100		
69	82.1	56.3	84.5
39	62.5	50.3	75.5





#49

1,4-Dioxane

Concen: 403.558 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 88 Resp: 2308

Ion Ratio Lower Upper

88 100

43 32.7 27.8 41.8

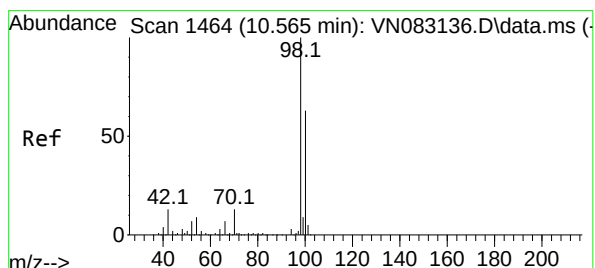
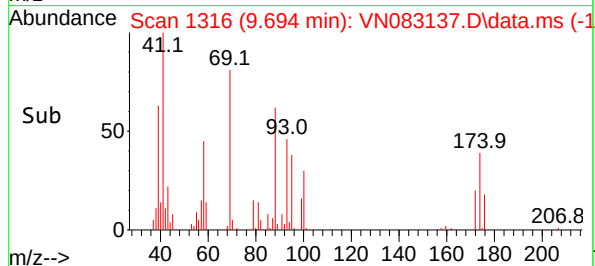
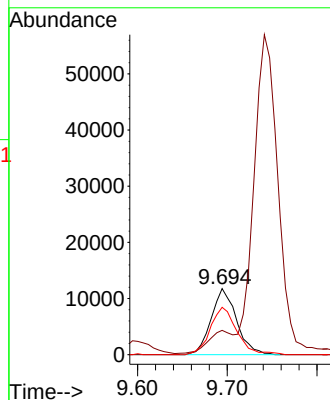
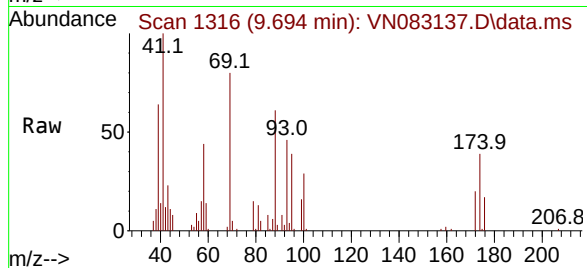
58 75.6 59.4 89.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#50

Toluene-d8

Concen: 16.926 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN083137.D

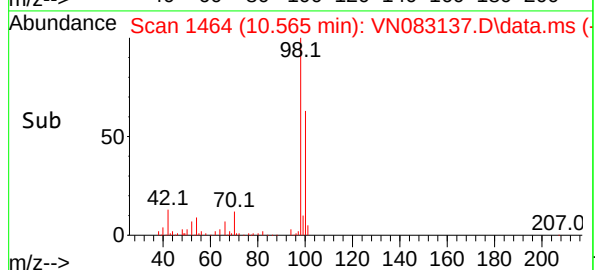
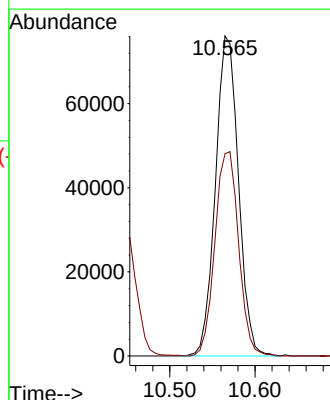
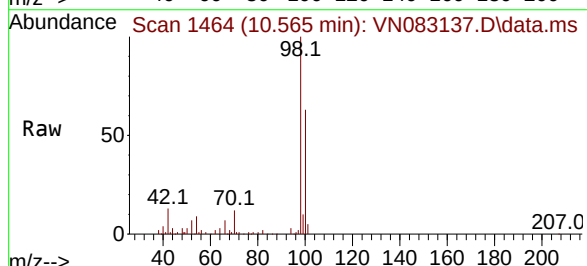
Acq: 07 Aug 2024 11:22

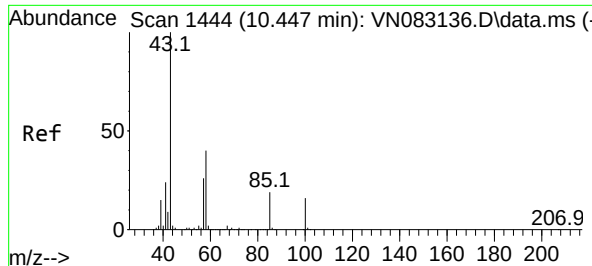
Tgt Ion: 98 Resp: 142952

Ion Ratio Lower Upper

98 100

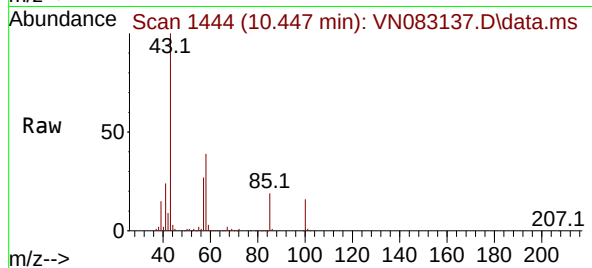
100 65.8 51.5 77.3





#51
4-Methyl-2-Pentanone
Concen: 103.224 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

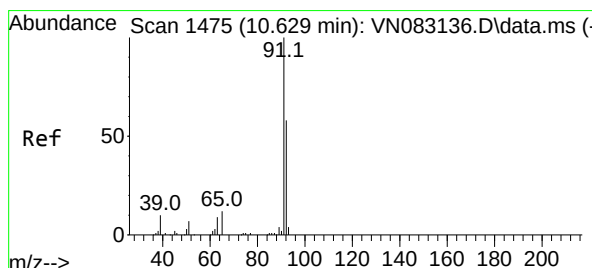
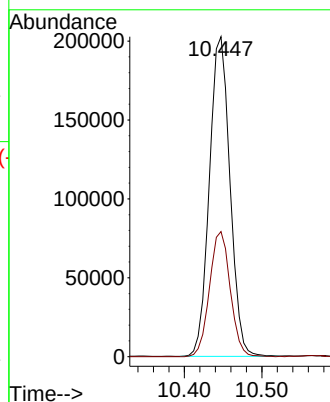
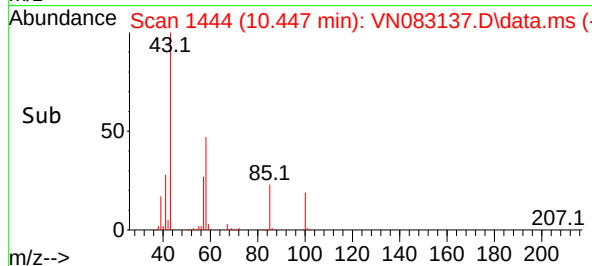
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 43 Resp: 37433
Ion Ratio Lower Upper
43 100
58 39.4 28.2 42.4

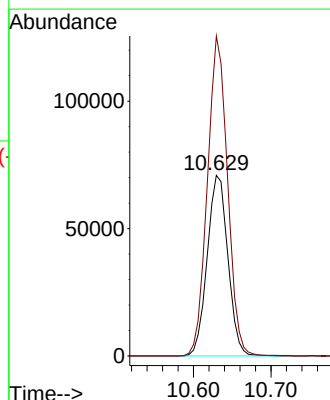
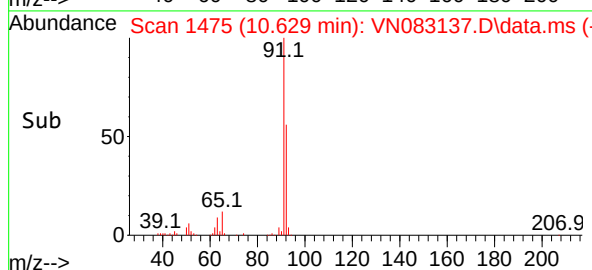
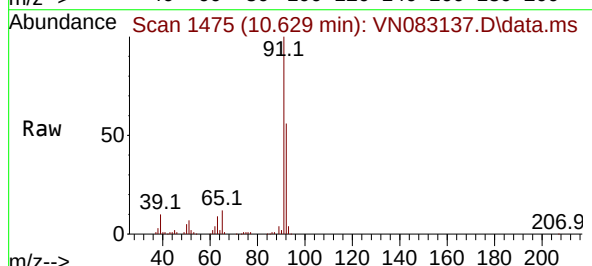
Manual Integrations
APPROVED

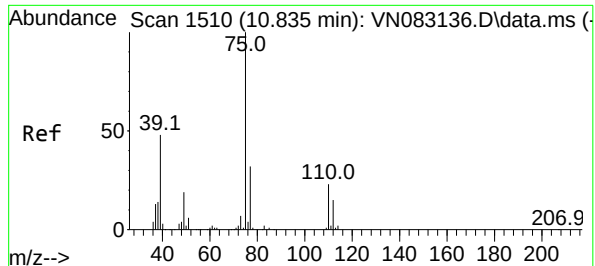
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#52
Toluene
Concen: 20.358 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

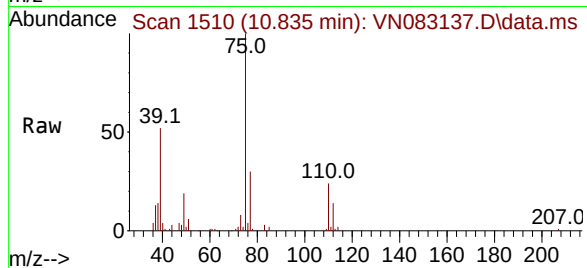
Tgt Ion: 92 Resp: 131247
Ion Ratio Lower Upper
92 100
91 173.0 139.4 209.0





#53
t-1,3-Dichloropropene
Concen: 20.793 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

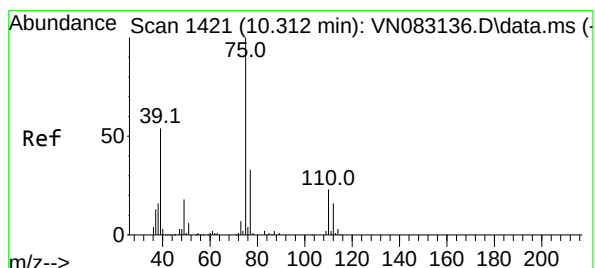
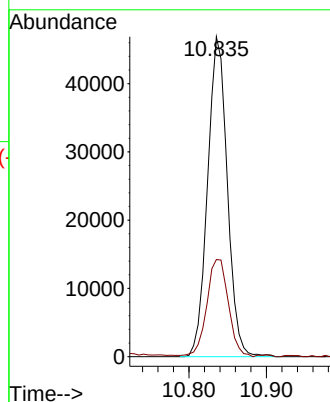
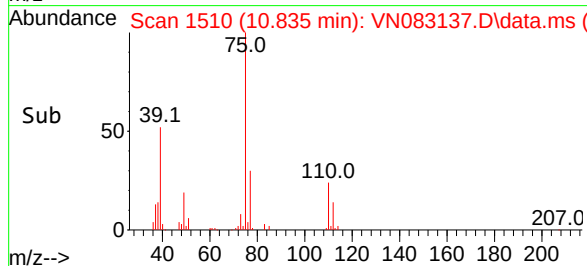
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 75 Resp: 83139
Ion Ratio Lower Upper
75 100
77 30.4 25.7 38.5

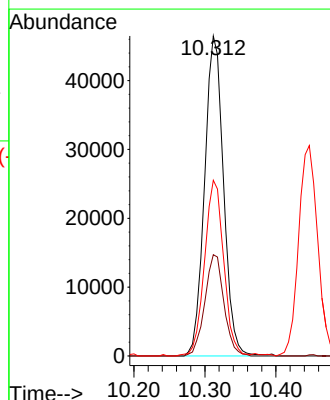
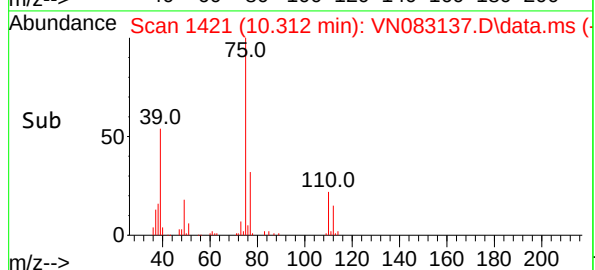
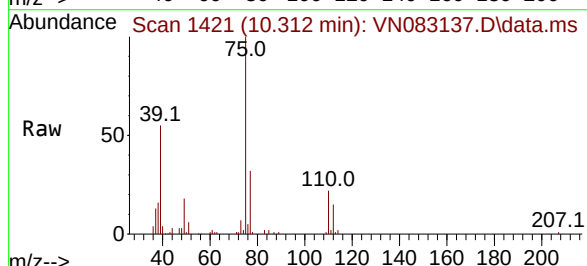
Manual Integrations
APPROVED

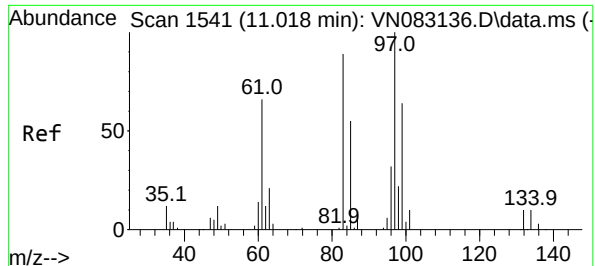
Reviewed By :John Carbone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#54
cis-1,3-Dichloropropene
Concen: 20.351 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 75 Resp: 86551
Ion Ratio Lower Upper
75 100
77 31.7 24.3 36.5
39 54.5 50.5 75.7





#55

1,1,2-Trichloroethane

Concen: 20.811 ug/l

RT: 11.018 min Scan# 1541

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 97 Resp: 4808

Ion Ratio Lower Upper

97 100

83 81.1 71.4 107.0

85 56.0 45.8 68.6

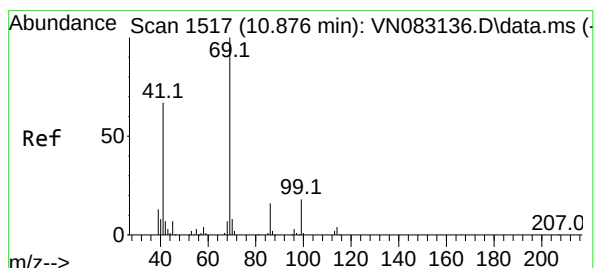
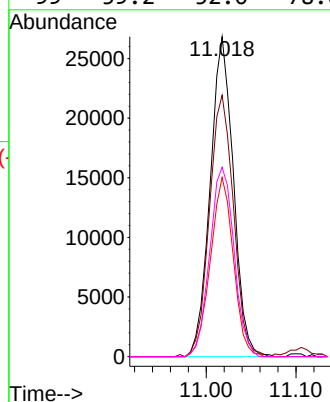
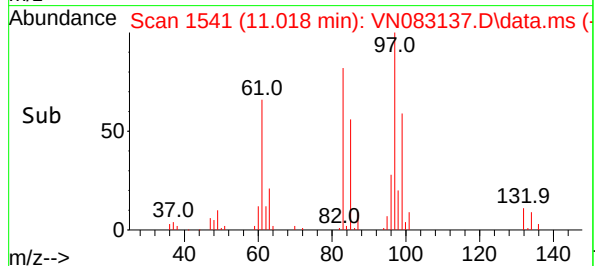
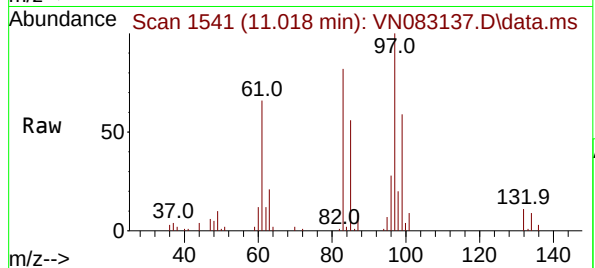
99 59.2 52.0 78.0

Manual Integrations

APPROVED

Reviewed By :John Carbone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#56

Ethyl methacrylate

Concen: 20.550 ug/l

RT: 10.877 min Scan# 1517

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

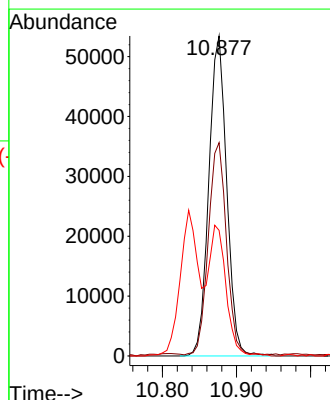
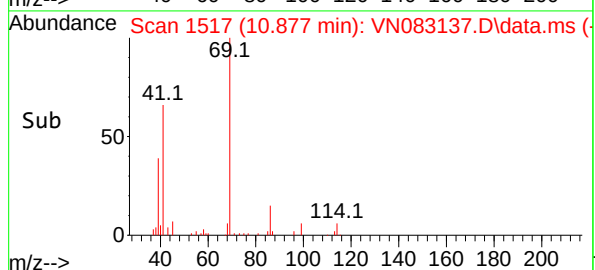
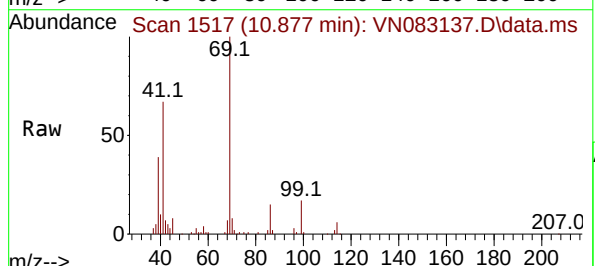
Tgt Ion: 69 Resp: 89503

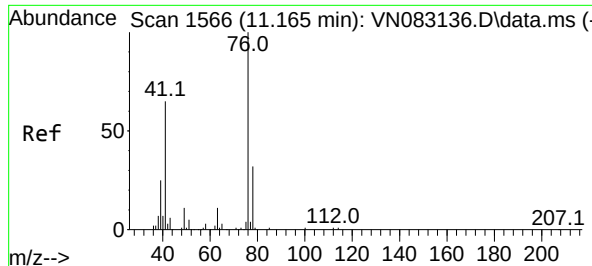
Ion Ratio Lower Upper

69 100

41 67.5 63.4 95.2

39 41.2 37.4 56.0





#57

1,3-Dichloropropane

Concen: 20.464 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 76 Resp: 8427

Ion Ratio Lower Upper

76 100

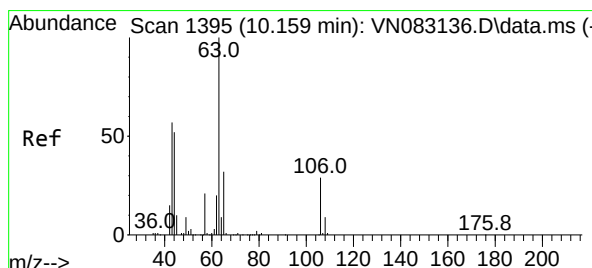
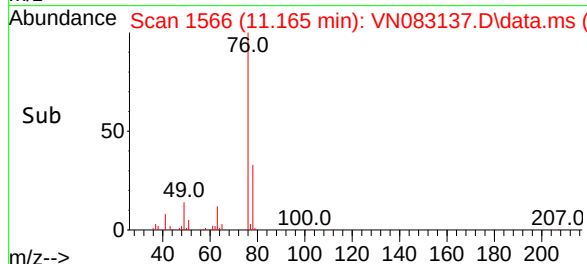
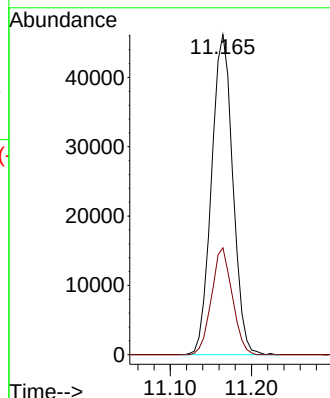
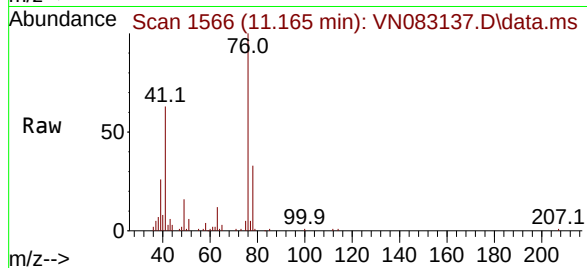
78 32.5 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#58

2-Chloroethyl Vinyl ether

Concen: 95.242 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN083137.D

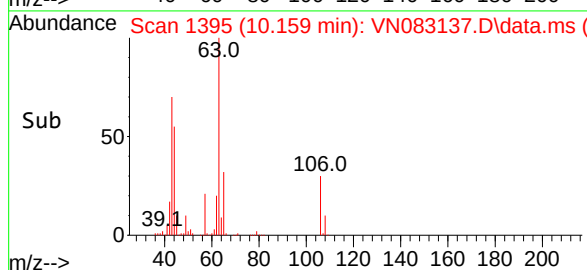
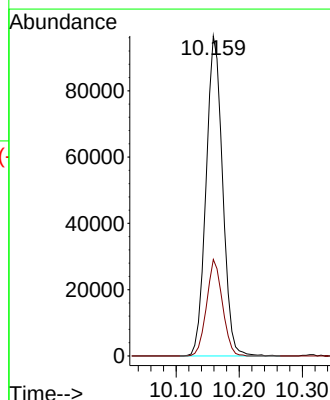
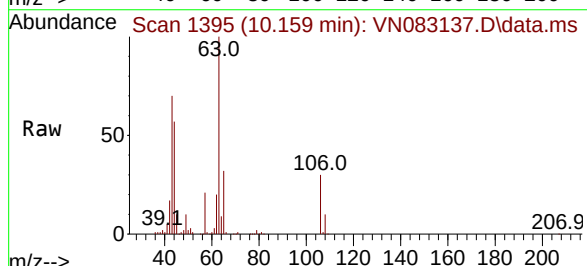
Acq: 07 Aug 2024 11:22

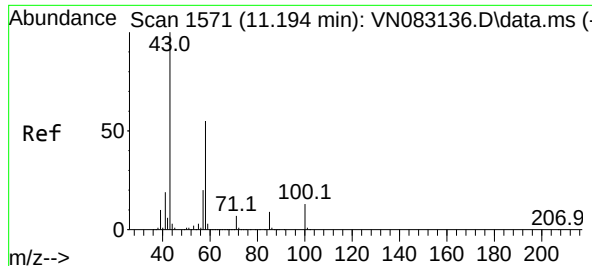
Tgt Ion: 63 Resp: 175345

Ion Ratio Lower Upper

63 100

106 28.9 21.4 32.0





#59

2-Hexanone

Concen: 102.020 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 28622

Ion Ratio Lower Upper

43 100

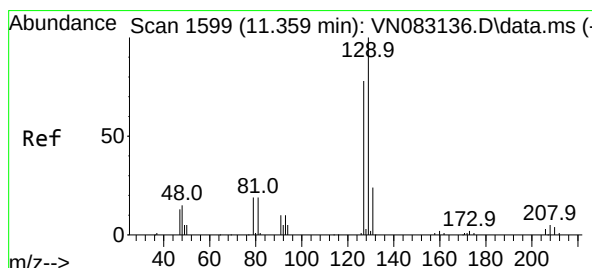
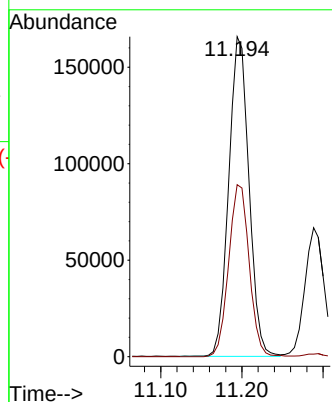
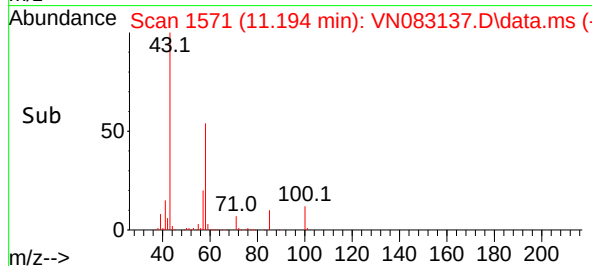
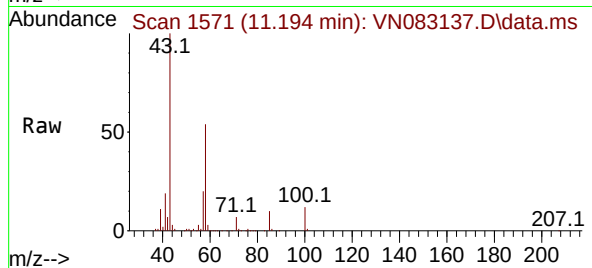
58 54.7 24.6 73.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#60

Dibromochloromethane

Concen: 20.610 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. 0.000 min

Lab File: VN083137.D

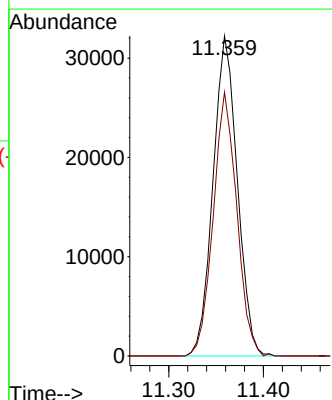
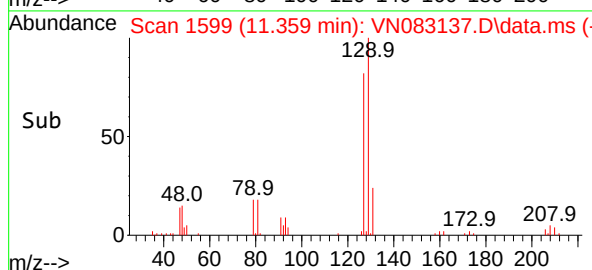
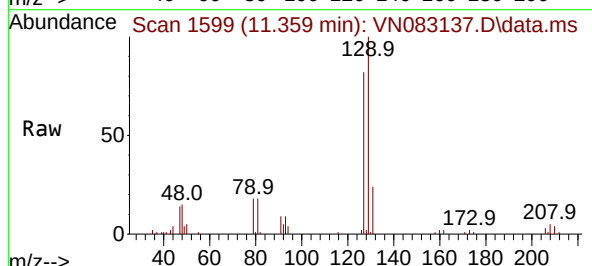
Acq: 07 Aug 2024 11:22

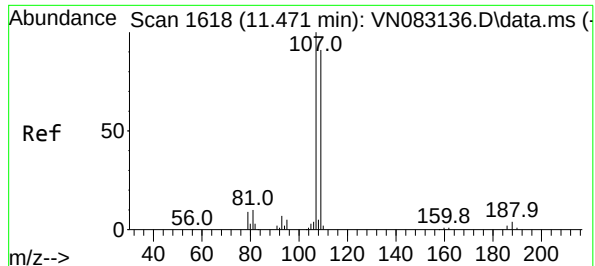
Tgt Ion:129 Resp: 57571

Ion Ratio Lower Upper

129 100

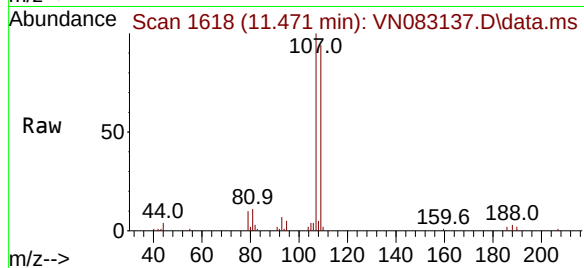
127 79.9 39.2 117.6





#61
1,2-Dibromoethane
Concen: 20.088 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

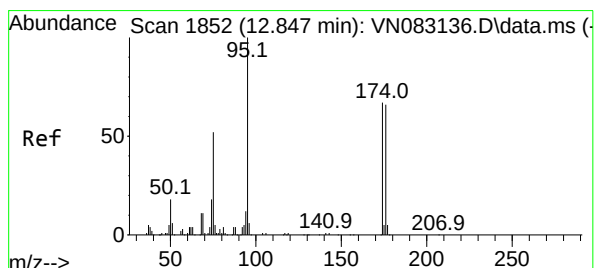
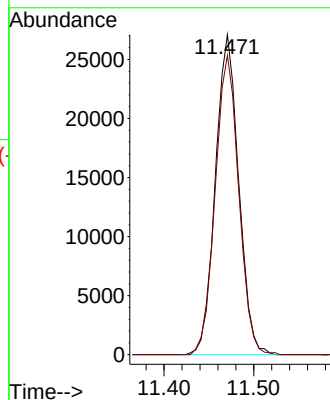
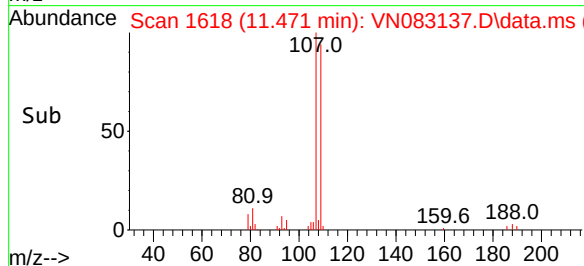
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion:107 Resp: 4875
Ion Ratio Lower Upper
107 100
109 94.4 73.7 110.5

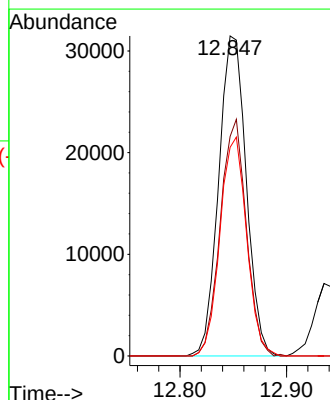
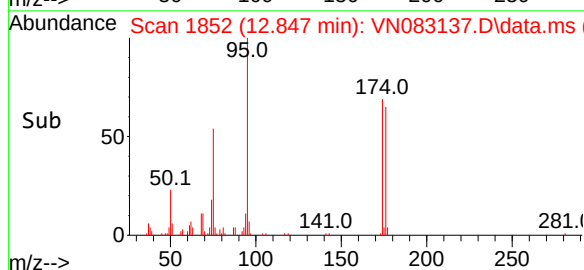
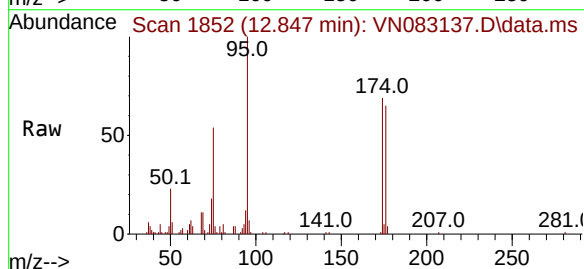
Manual Integrations
APPROVED

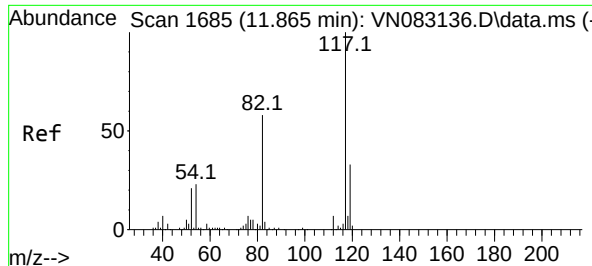
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#62
4-Bromofluorobenzene
Concen: 17.179 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

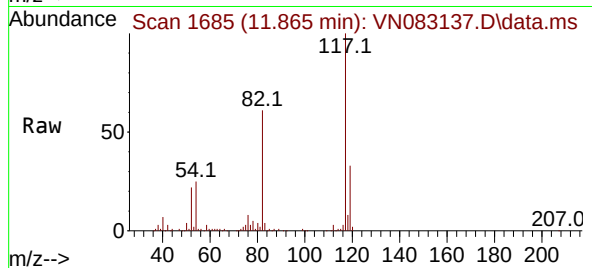
Tgt Ion: 95 Resp: 56566
Ion Ratio Lower Upper
95 100
174 69.8 0.0 159.2
176 66.2 0.0 147.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

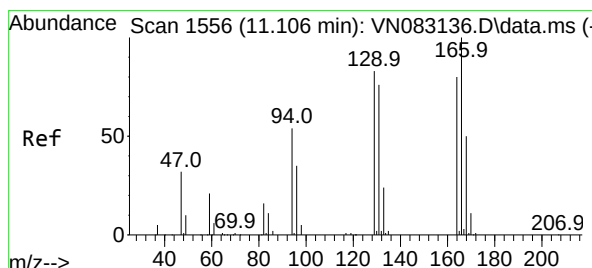
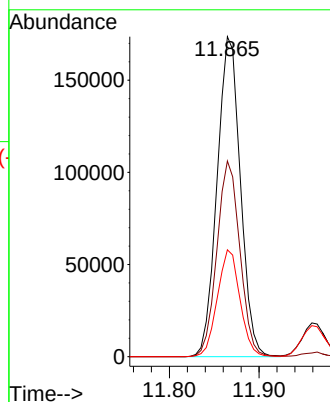
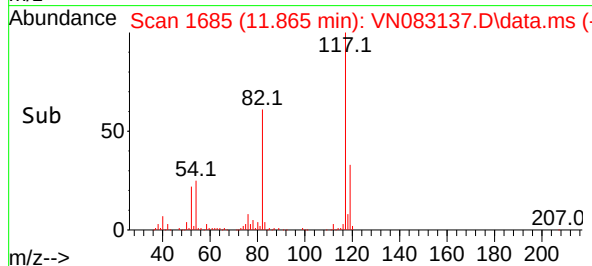
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion:117 Resp: 31325
Ion Ratio Lower Upper
117 100
82 61.1 47.5 71.3
119 33.4 25.6 38.4

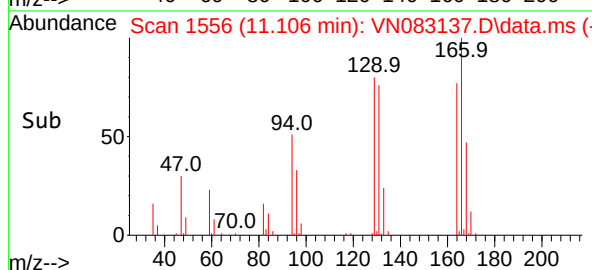
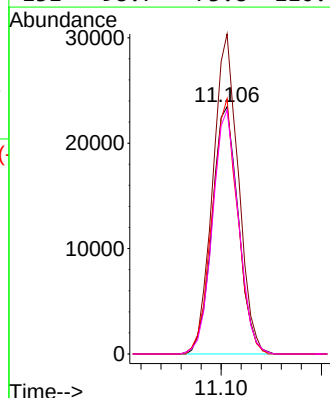
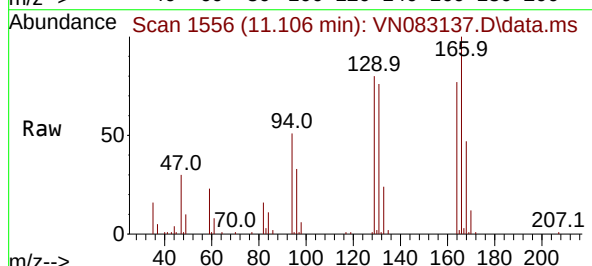
Manual Integrations
APPROVED

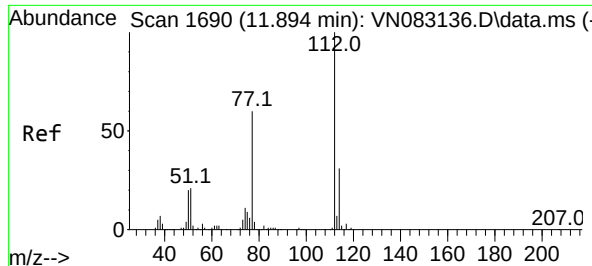
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#64
Tetrachloroethene
Concen: 20.405 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

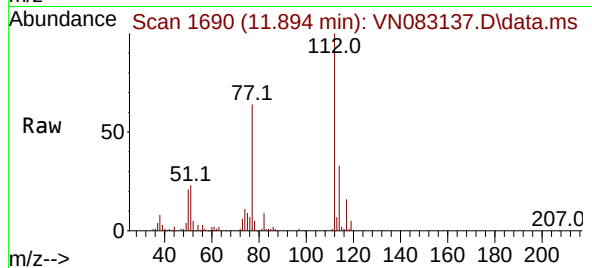
Tgt Ion:164 Resp: 42332
Ion Ratio Lower Upper
164 100
166 129.4 101.4 152.0
129 103.2 75.7 113.5
131 98.7 73.8 110.6





#65
Chlorobenzene
Concen: 19.933 ug/l
RT: 11.894 min Scan# 11894
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

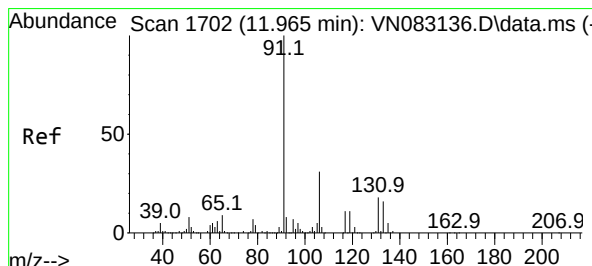
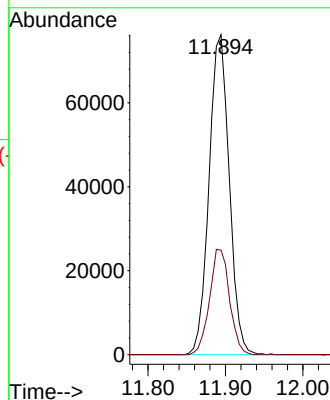
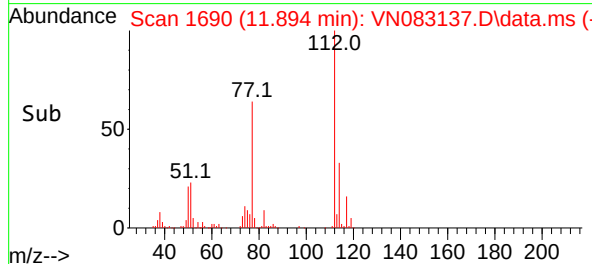
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



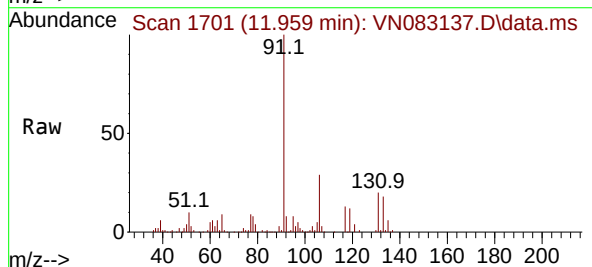
Tgt Ion:112 Resp: 137984
Ion Ratio Lower Upper
112 100
114 32.7 26.2 39.2

Manual Integrations
APPROVED

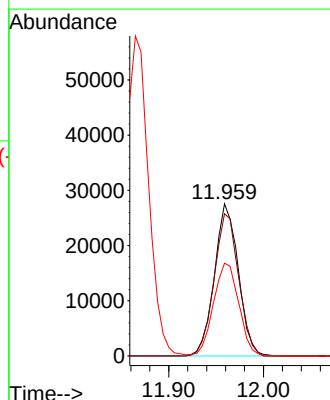
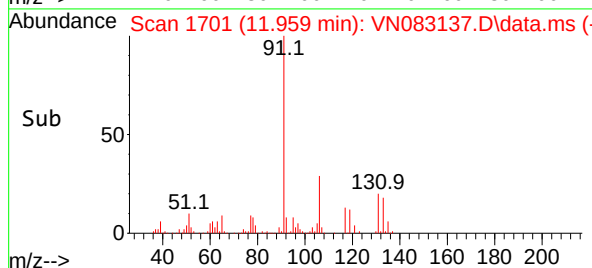
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

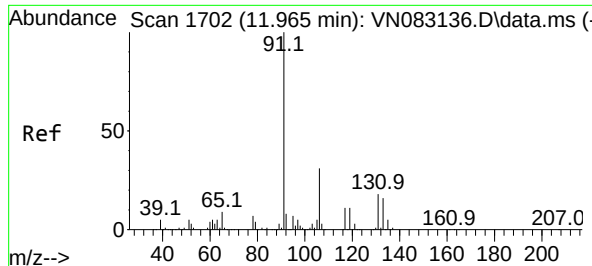


#66
1,1,1,2-Tetrachloroethane
Concen: 19.762 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22



Tgt Ion:131 Resp: 48247
Ion Ratio Lower Upper
131 100
133 96.1 47.3 142.0
119 64.5 32.5 97.4





#67

Ethyl Benzene

Concen: 20.335 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 91 Resp: 25823

Ion Ratio Lower Upper

91 100

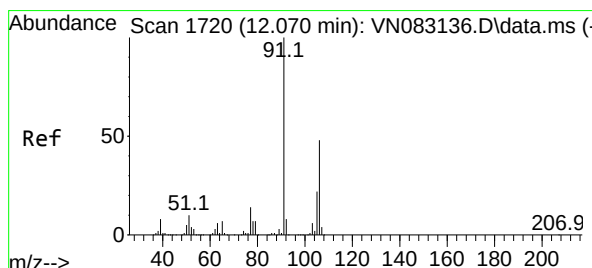
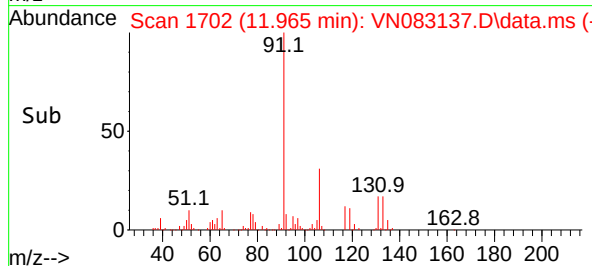
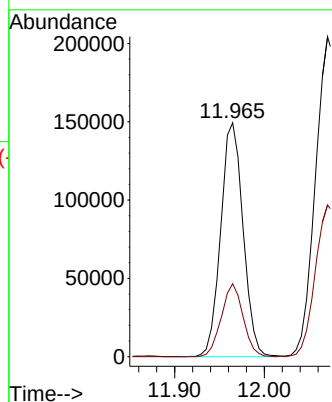
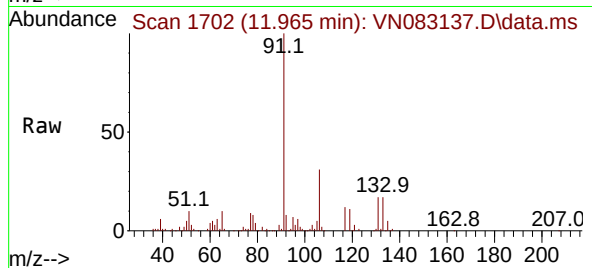
106 31.2 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#68

m/p-Xylenes

Concen: 40.625 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.000 min

Lab File: VN083137.D

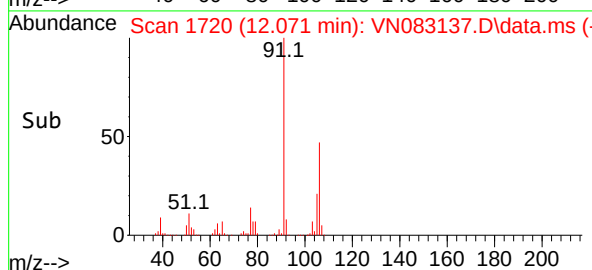
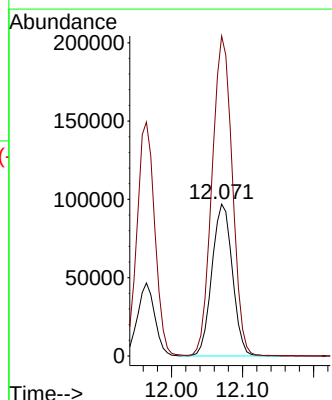
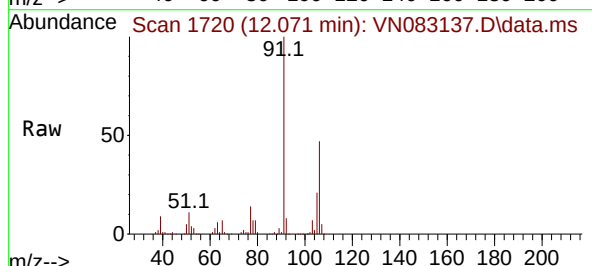
Acq: 07 Aug 2024 11:22

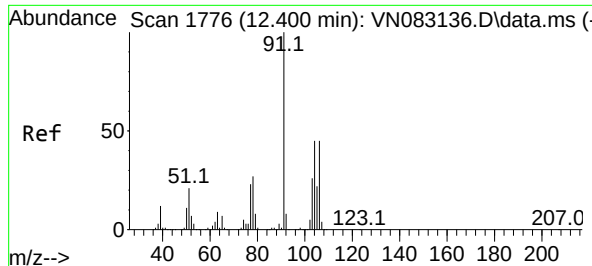
Tgt Ion:106 Resp: 193256

Ion Ratio Lower Upper

106 100

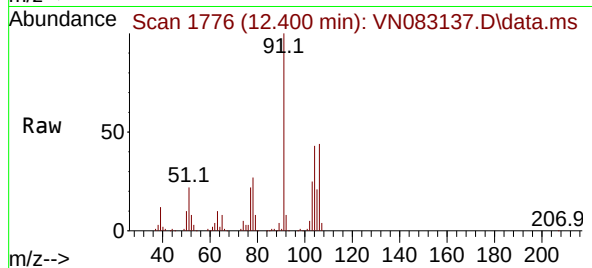
91 209.9 166.1 249.1





#69
o-Xylene
Concen: 20.281 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

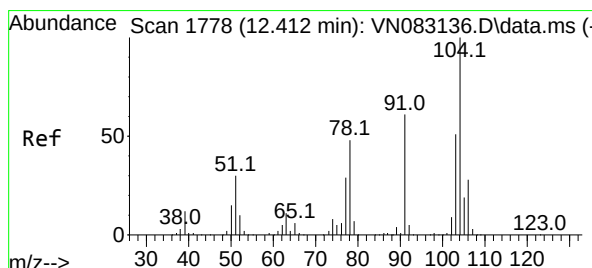
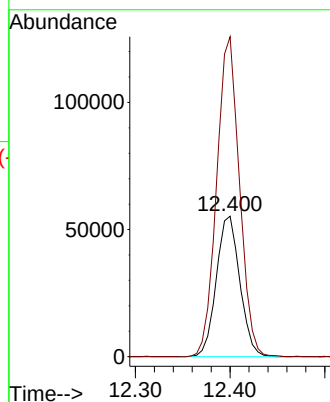
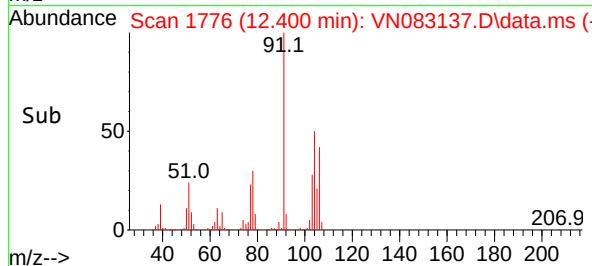
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion:106 Resp: 9515
Ion Ratio Lower Upper
106 100
91 221.3 111.3 333.9

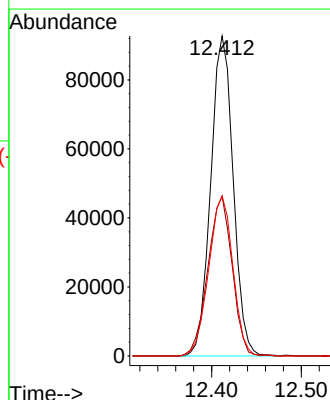
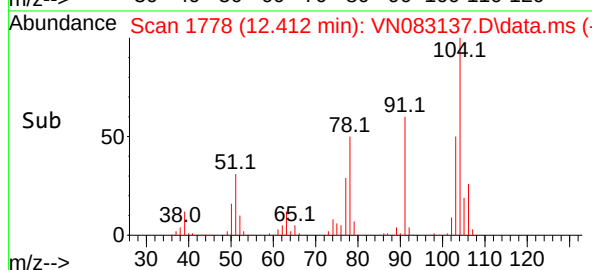
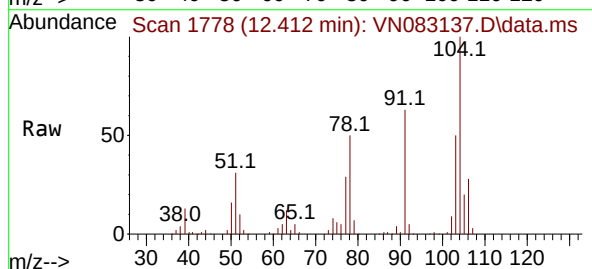
Manual Integrations
APPROVED

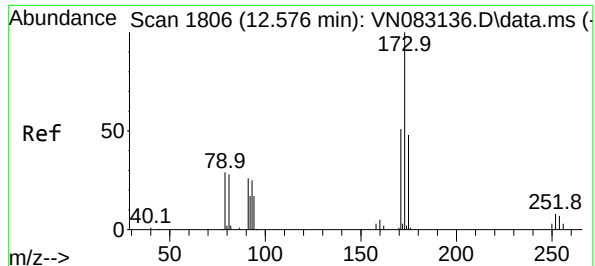
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#70
Styrene
Concen: 20.475 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

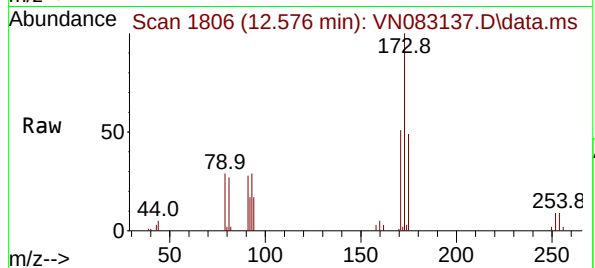
Tgt Ion:104 Resp: 161342
Ion Ratio Lower Upper
104 100
78 53.7 41.6 62.4
103 53.8 44.0 66.0





#71
Bromoform
Concen: 20.957 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

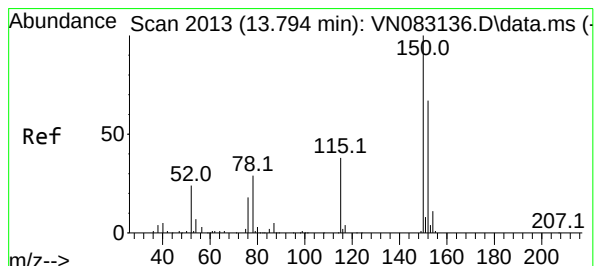
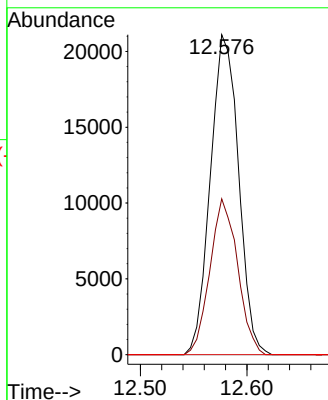
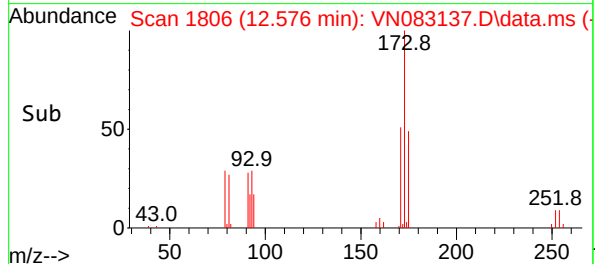
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion:173 Resp: 3876
Ion Ratio Lower Upper
173 100
175 47.9 24.0 72.0
254 0.0 0.0 0.0

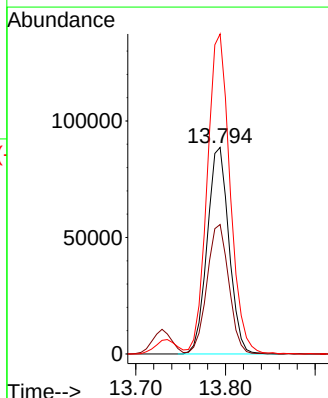
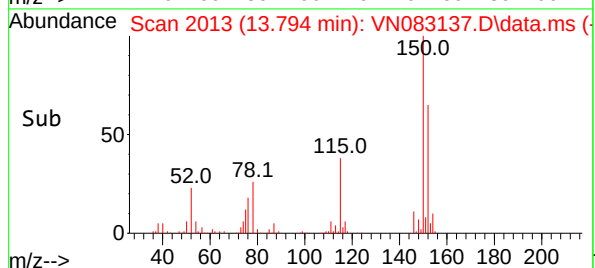
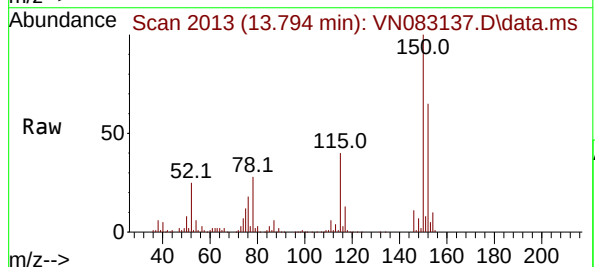
Manual Integrations
APPROVED

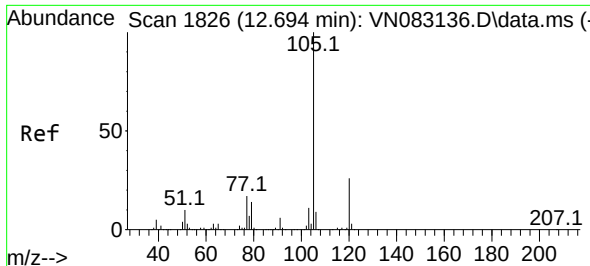
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

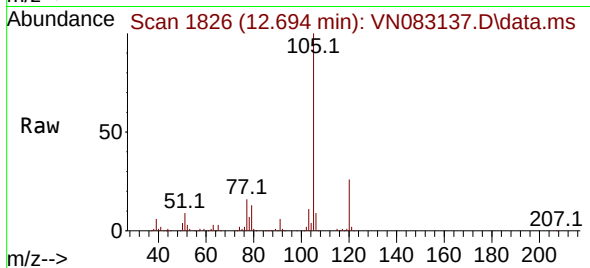
Tgt Ion:152 Resp: 149244
Ion Ratio Lower Upper
152 100
115 63.1 30.6 91.6
150 162.7 0.0 348.6





#73
Isopropylbenzene
Concen: 19.764 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

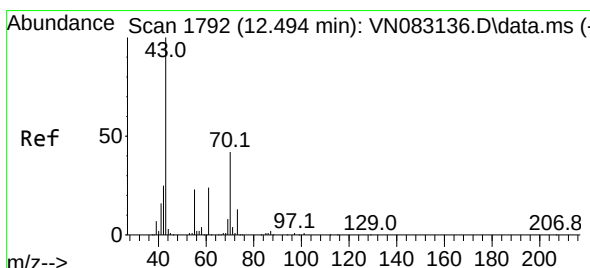
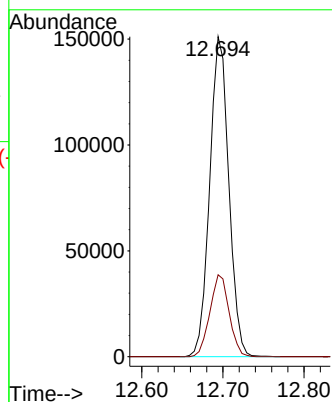
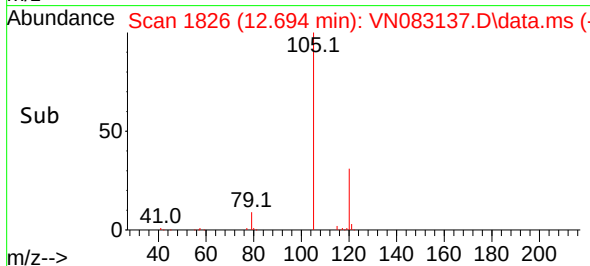
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 105 Resp: 24671
Ion Ratio Lower Upper
105 100
120 25.8 12.9 38.6

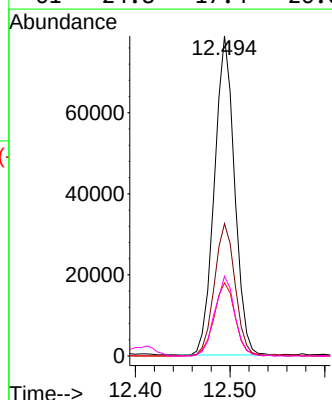
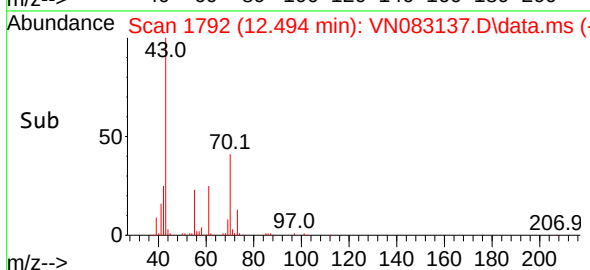
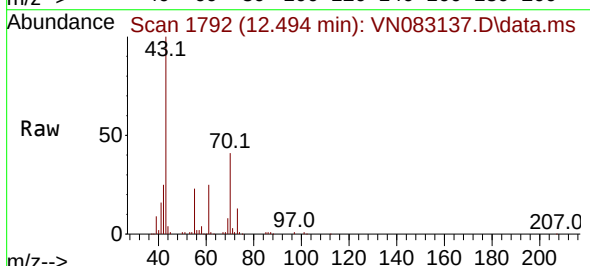
Manual Integrations
APPROVED

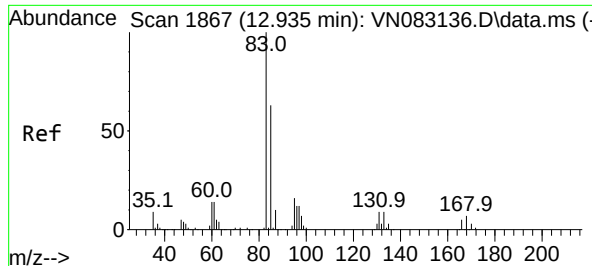
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#74
N-ethyl acetate
Concen: 19.014 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

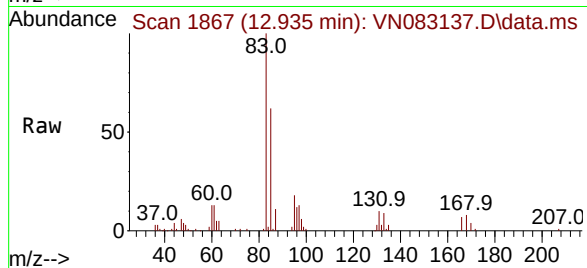
Tgt Ion: 43 Resp: 116100
Ion Ratio Lower Upper
43 100
70 42.8 29.8 44.6
55 24.0 18.7 28.1
61 24.8 17.4 26.0





#75
1,1,2,2-Tetrachloroethane
Concen: 19.670 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

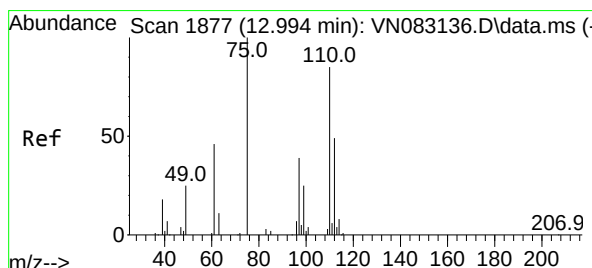
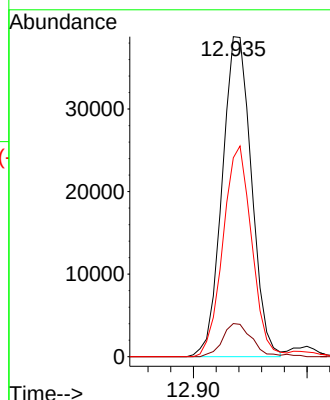
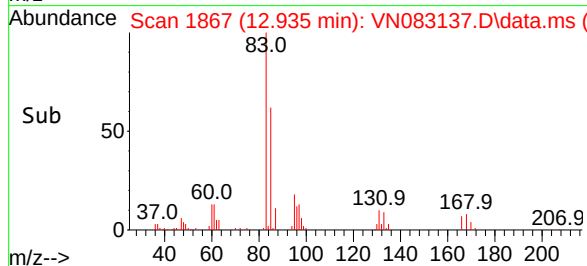
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 83 Resp: 69449
Ion Ratio Lower Upper
83 100
131 10.6 5.0 14.9
85 64.6 31.9 95.7

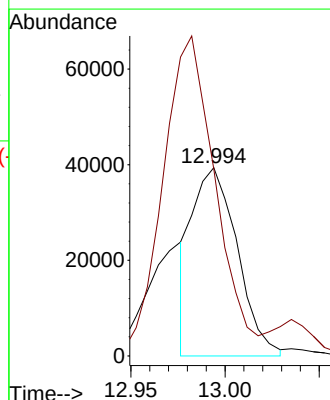
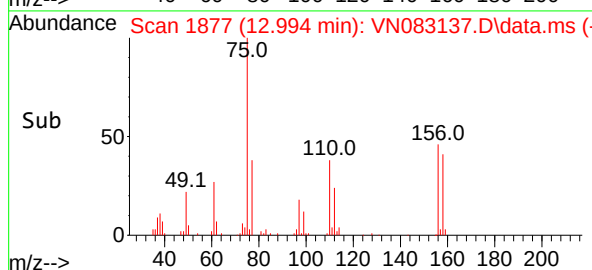
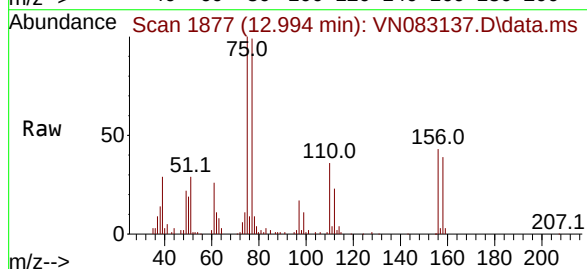
Manual Integrations
APPROVED

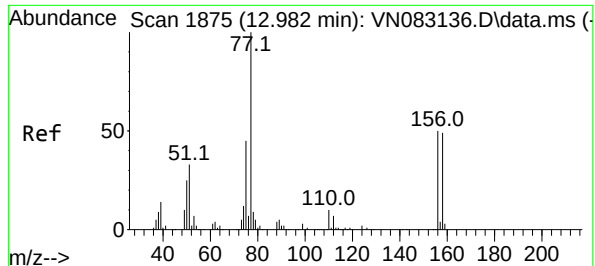
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#76
1,2,3-Trichloropropane
Concen: 19.901 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 75 Resp: 65295
Ion Ratio Lower Upper
75 100
77 199.0 110.9 332.6





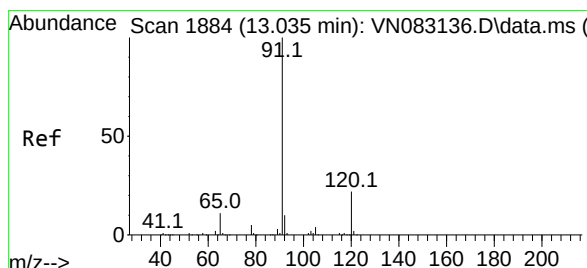
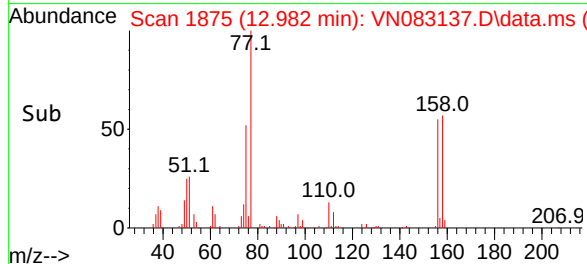
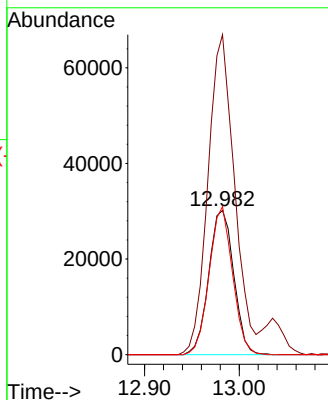
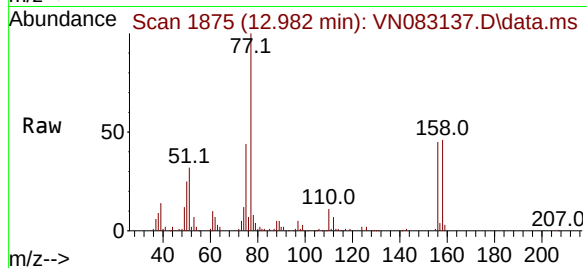
#77
Bromobenzene
Concen: 19.952 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion:156 Resp: 5532
Ion Ratio Lower Upper
156 100
77 234.8 111.3 333.8
158 95.8 48.3 144.9

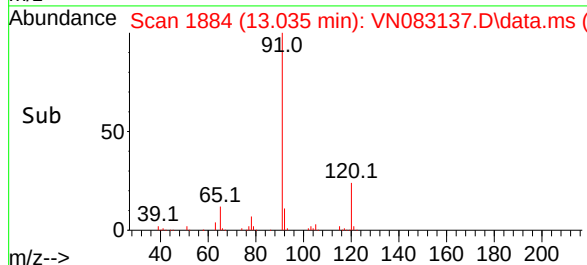
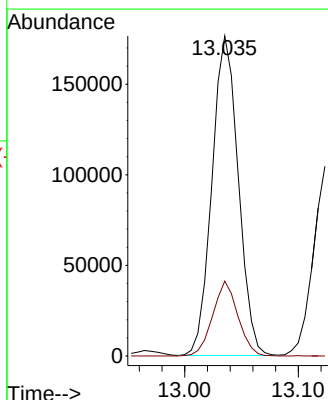
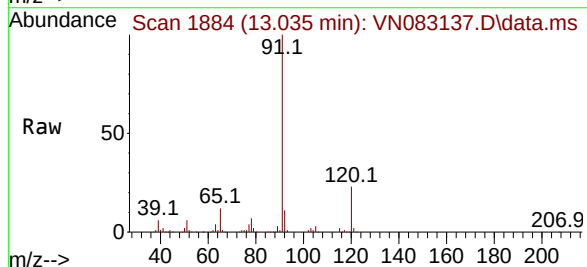
Manual Integrations
APPROVED

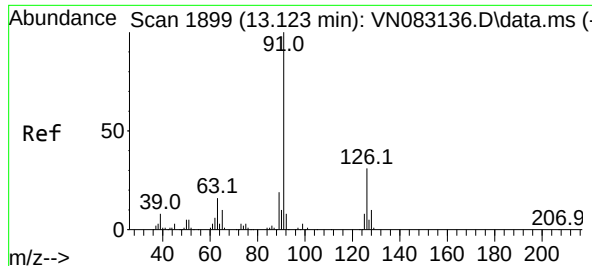
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#78
n-propylbenzene
Concen: 19.740 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 91 Resp: 283745
Ion Ratio Lower Upper
91 100
120 22.4 10.9 32.9





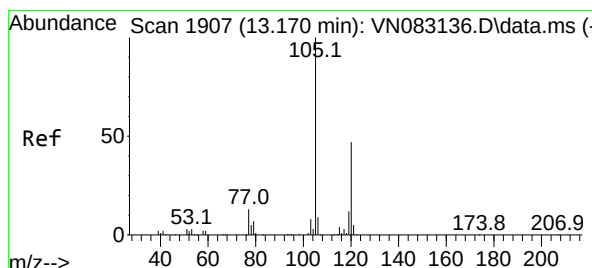
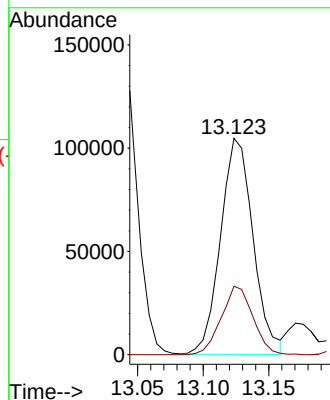
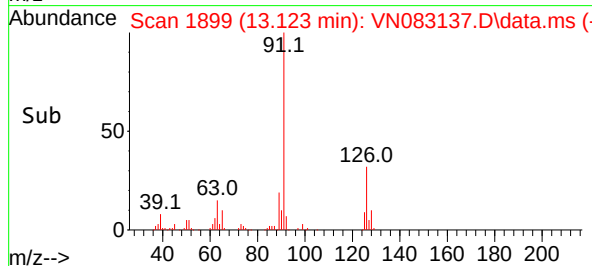
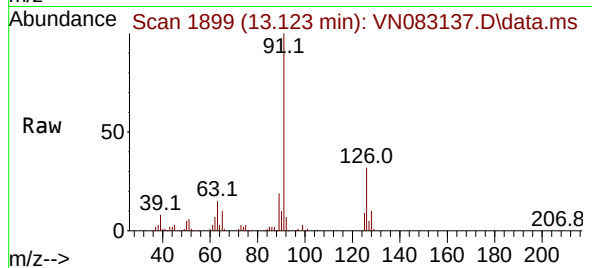
#79
2-Chlorotoluene
Concen: 19.827 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 180682
Ion Ratio Lower Upper
91 100
126 30.7 16.2 48.6

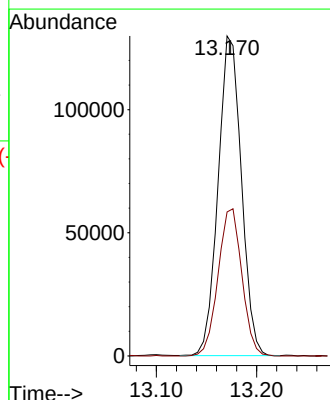
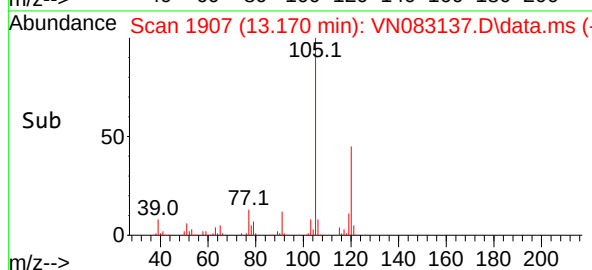
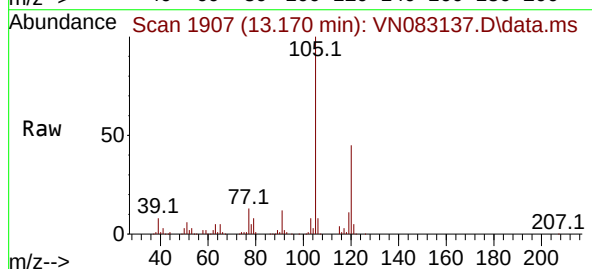
Manual Integrations
APPROVED

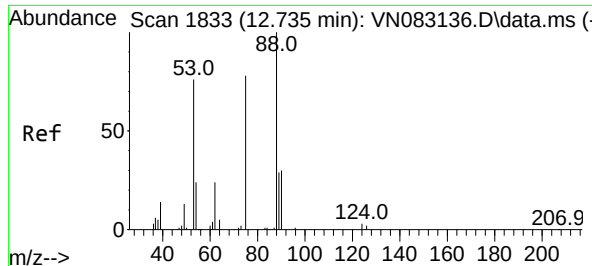
Reviewed By :John Carbone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#80
1,3,5-Trimethylbenzene
Concen: 19.938 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

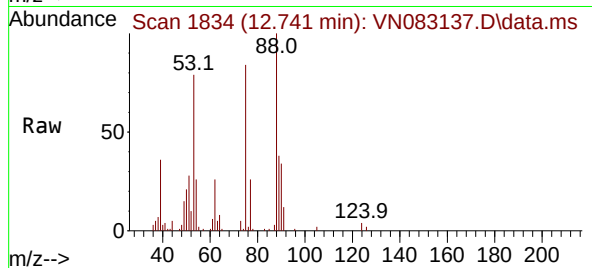
Tgt Ion:105 Resp: 208367
Ion Ratio Lower Upper
105 100
120 47.2 24.3 72.8





#81
trans-1,4-Dichloro-2-butene
Concen: 20.759 ug/l
RT: 12.741 min Scan# 1834
Delta R.T. 0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

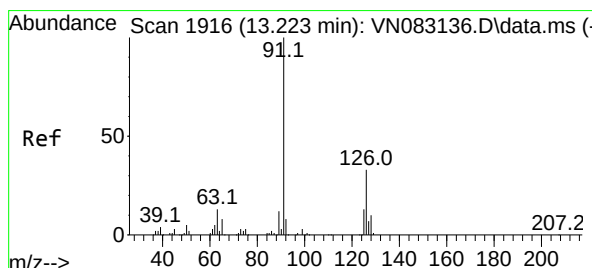
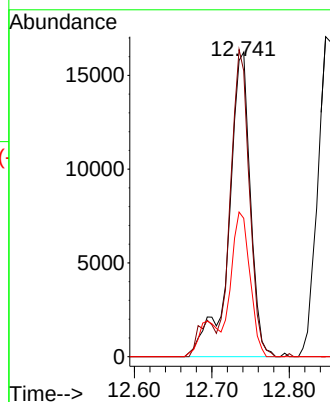
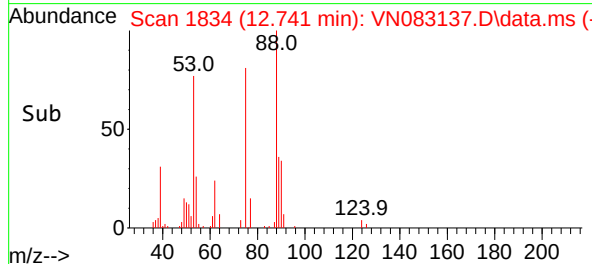
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 75 Resp: 31260
Ion Ratio Lower Upper
75 100
53 88.0 88.4 132.6
89 41.4 36.3 54.5

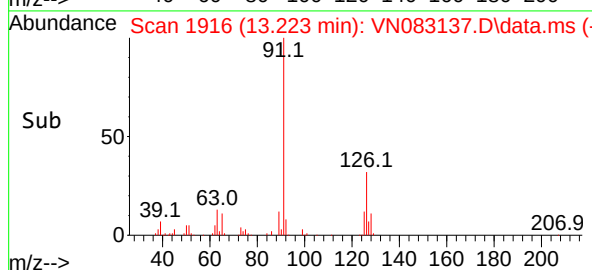
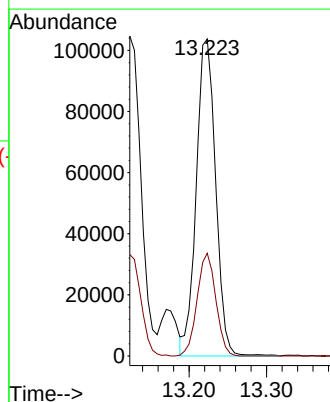
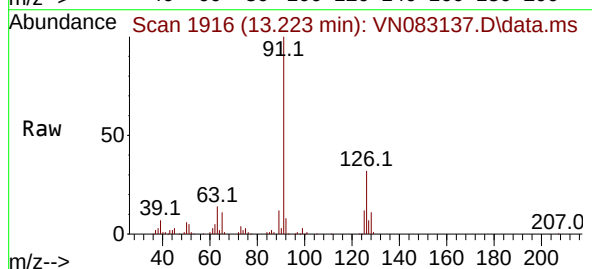
Manual Integrations
APPROVED

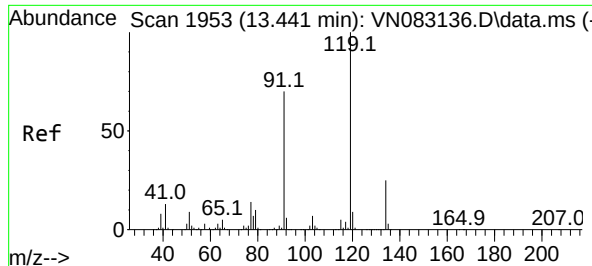
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#82
4-Chlorotoluene
Concen: 19.684 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

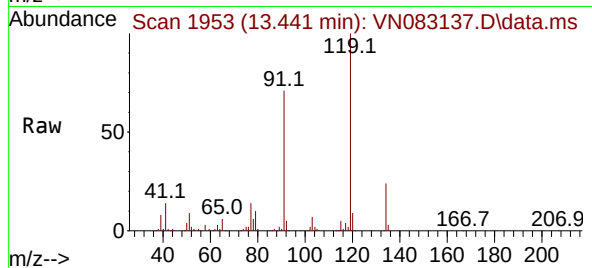
Tgt Ion: 91 Resp: 179932
Ion Ratio Lower Upper
91 100
126 31.3 16.2 48.6





#83
tert-Butylbenzene
Concen: 19.985 ug/l
RT: 13.441 min Scan# 1953
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

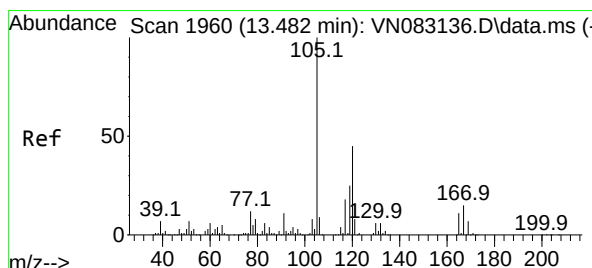
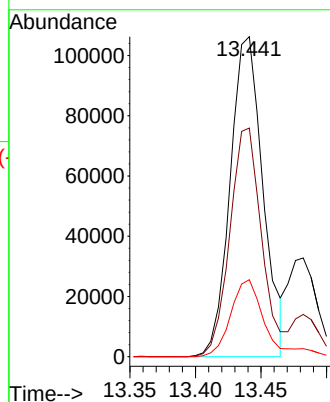
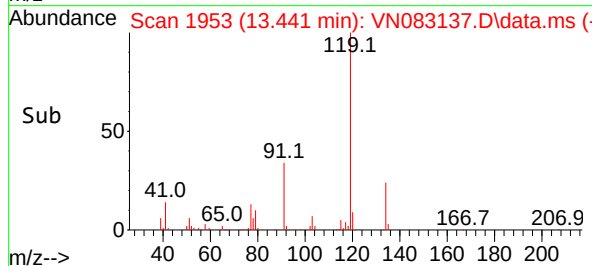
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020



Tgt Ion:119 Resp: 18496
Ion Ratio Lower Upper
119 100
91 70.2 35.0 105.1
134 25.2 13.3 39.8

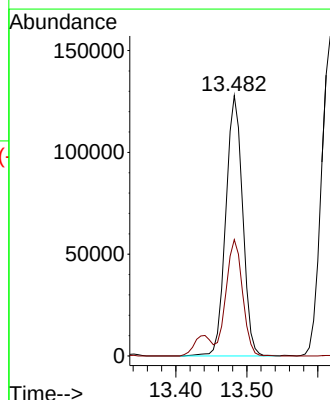
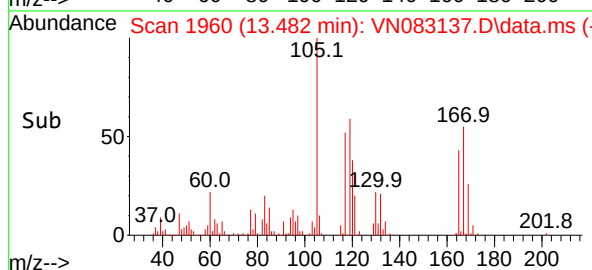
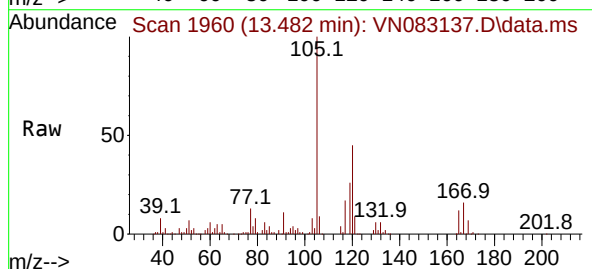
Manual Integrations
APPROVED

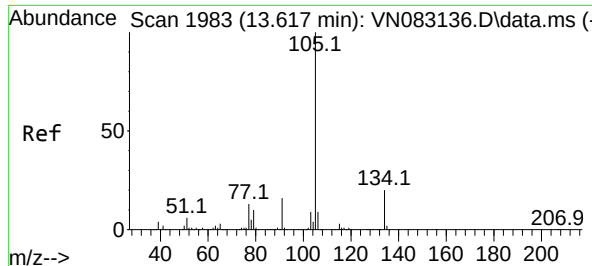
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#84
1,2,4-Trimethylbenzene
Concen: 19.984 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

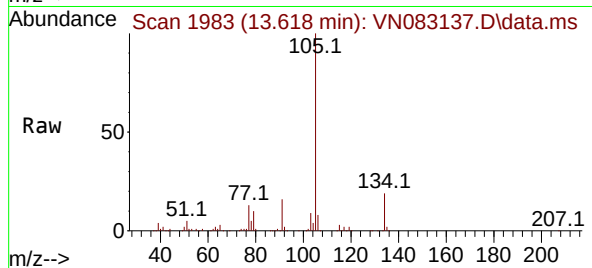
Tgt Ion:105 Resp: 210474
Ion Ratio Lower Upper
105 100
120 44.0 21.9 65.8





#85
sec-Butylbenzene
Concen: 19.862 ug/l
RT: 13.618 min Scan# 1983
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

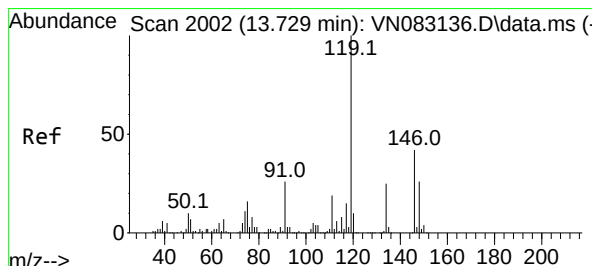
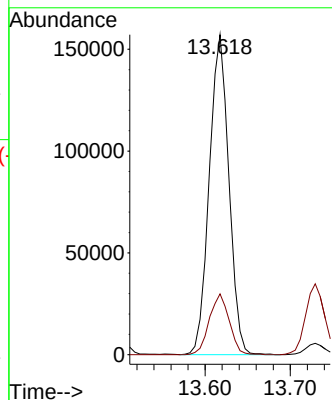
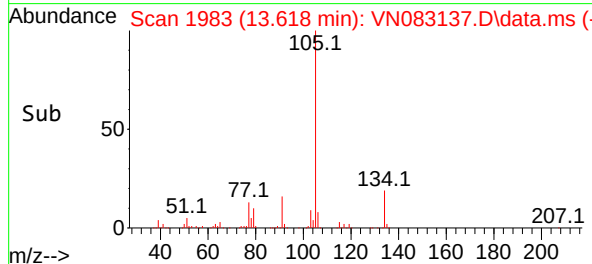
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion:105 Resp: 250829
Ion Ratio Lower Upper
105 100
134 19.3 9.8 29.3

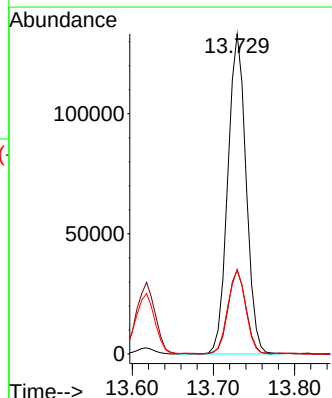
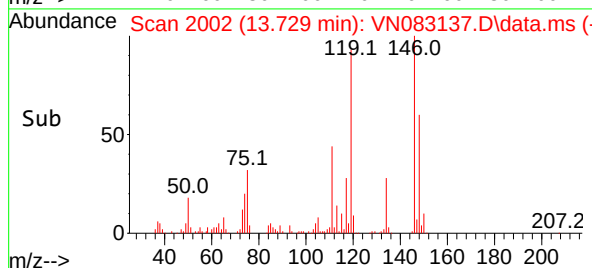
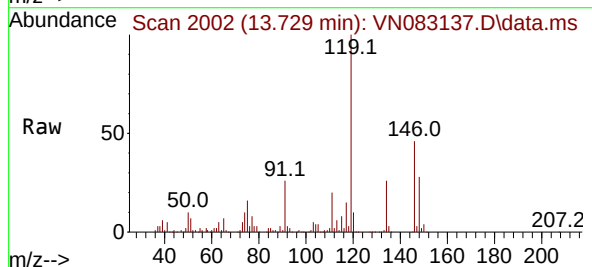
Manual Integrations
APPROVED

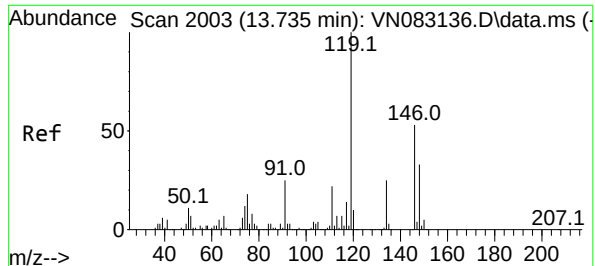
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#86
p-Isopropyltoluene
Concen: 19.986 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:119 Resp: 208404
Ion Ratio Lower Upper
119 100
134 25.7 13.0 39.0
91 25.8 12.3 36.9





#87

1,3-Dichlorobenzene

Concen: 19.897 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion:146 Resp: 103819

Ion Ratio Lower Upper

146 100

111 43.7 20.6 61.9

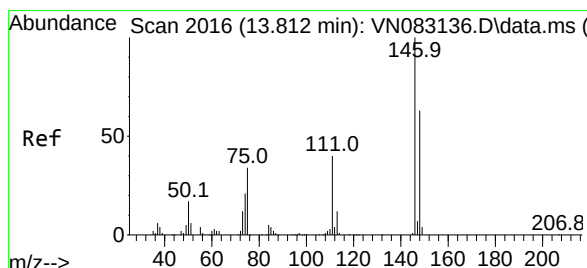
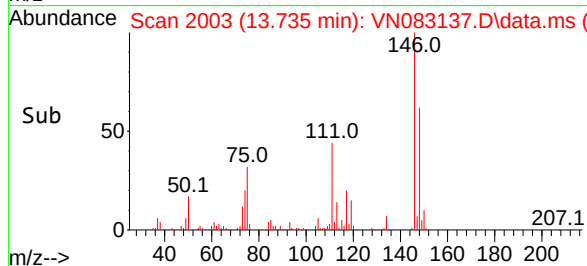
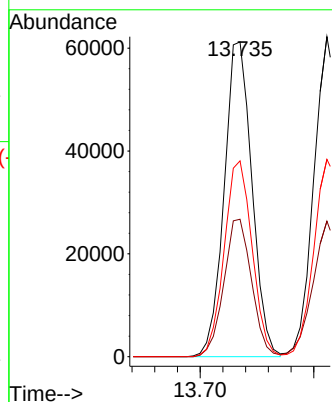
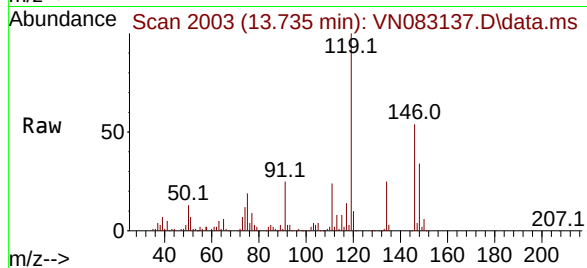
148 62.7 31.8 95.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#88

1,4-Dichlorobenzene

Concen: 19.605 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

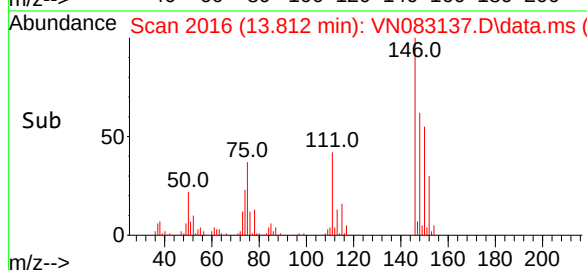
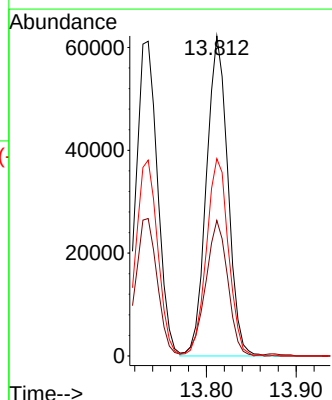
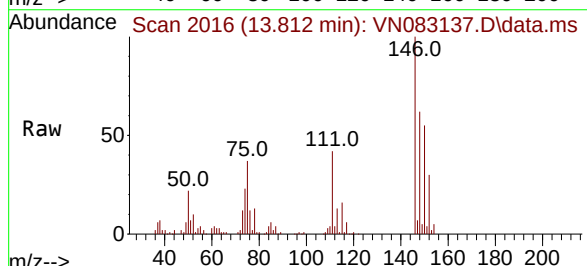
Tgt Ion:146 Resp: 103132

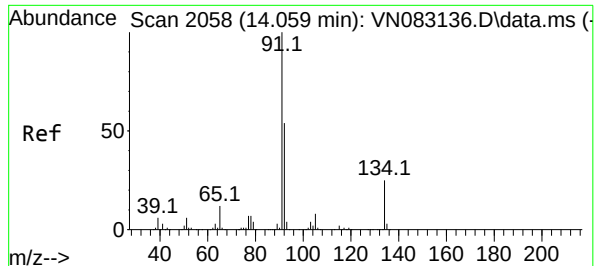
Ion Ratio Lower Upper

146 100

111 43.2 20.1 60.3

148 63.5 32.2 96.6





#89

n-Butylbenzene

Concen: 19.975 ug/l

RT: 14.053 min Scan# 2058

Delta R.T. -0.006 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 18048

Ion Ratio Lower Upper

91 100

92 54.3 26.1 78.3

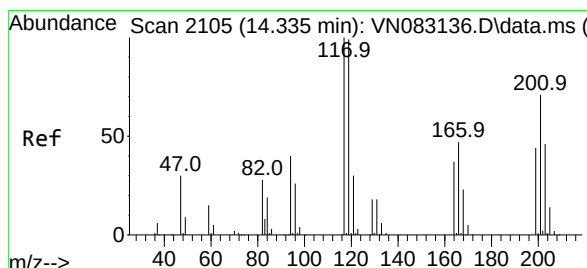
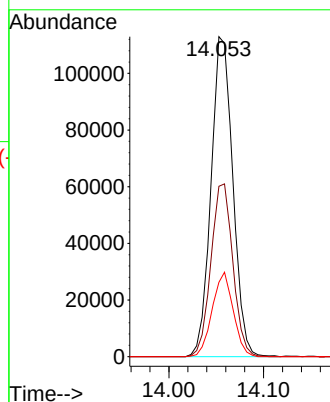
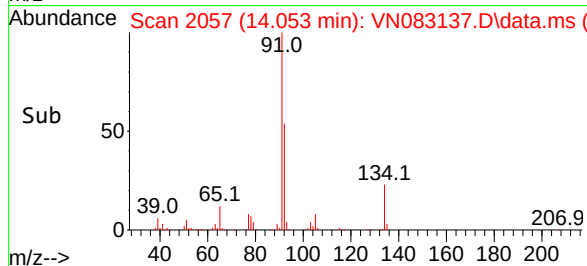
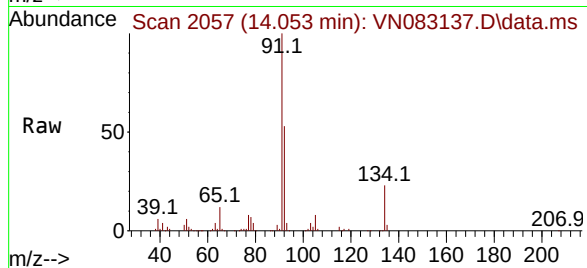
134 25.4 12.1 36.3

Manual Integrations

APPROVED

Reviewed By :John Carbone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#90

Hexachloroethane

Concen: 20.343 ug/l

RT: 14.335 min Scan# 2105

Delta R.T. 0.000 min

Lab File: VN083137.D

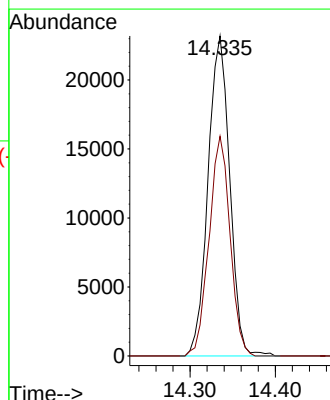
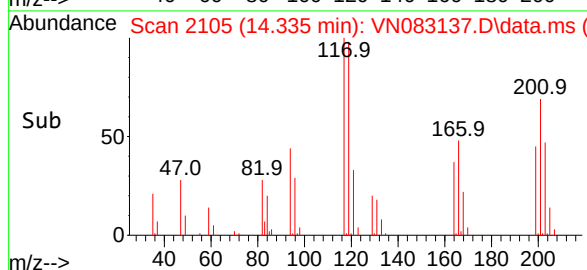
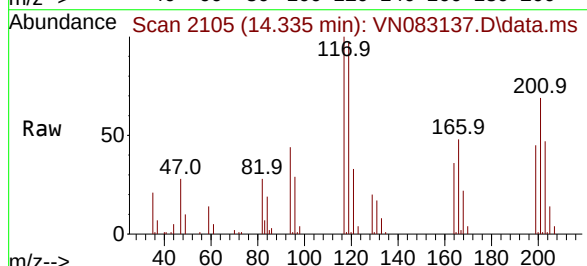
Acq: 07 Aug 2024 11:22

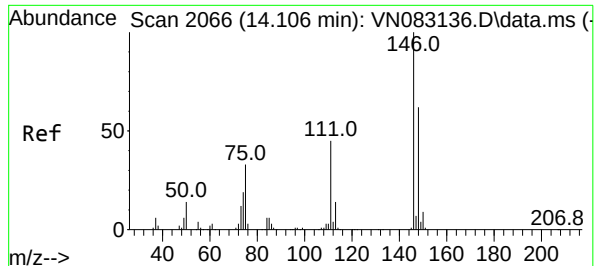
Tgt Ion:117 Resp: 40982

Ion Ratio Lower Upper

117 100

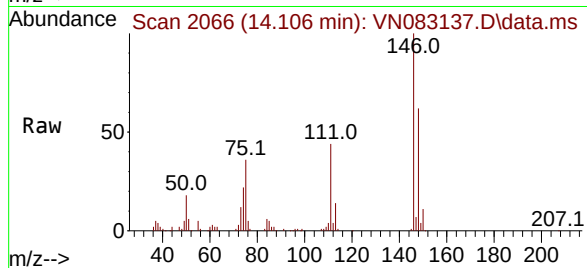
201 66.5 35.8 107.3





#91
1,2-Dichlorobenzene
Concen: 19.673 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

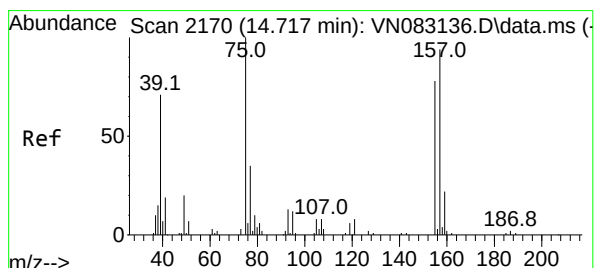
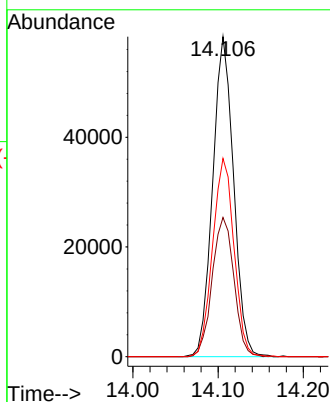
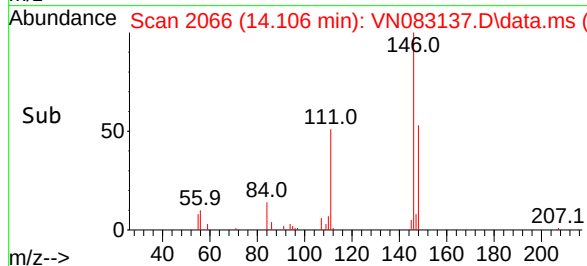
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion:146 Resp: 99334
Ion Ratio Lower Upper
146 100
111 45.3 21.4 64.2
148 63.5 32.1 96.5

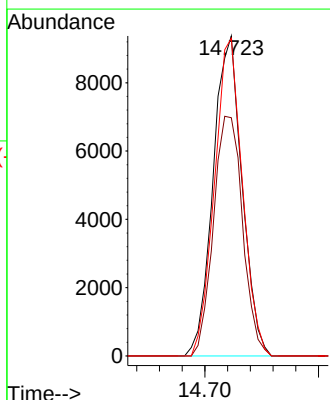
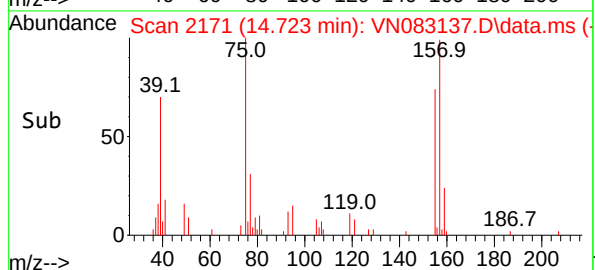
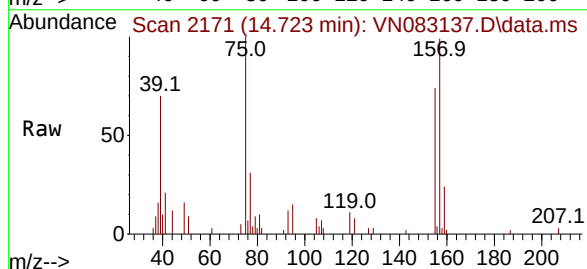
Manual Integrations
APPROVED

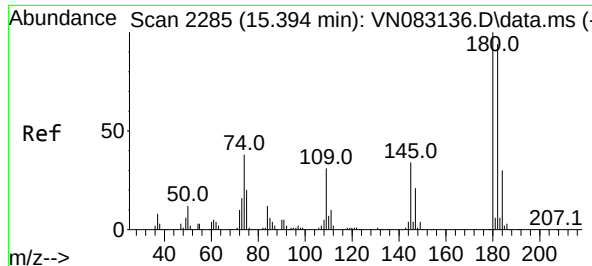
Reviewed By :John Carbone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#92
1,2-Dibromo-3-Chloropropane
Concen: 19.320 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 75 Resp: 16552
Ion Ratio Lower Upper
75 100
155 75.5 36.6 109.8
157 95.6 46.9 140.6





#93

1,2,4-Trichlorobenzene

Concen: 19.902 ug/l

RT: 15.394 min Scan# 2285

Delta R.T. 0.000 min

Lab File: VN083137.D

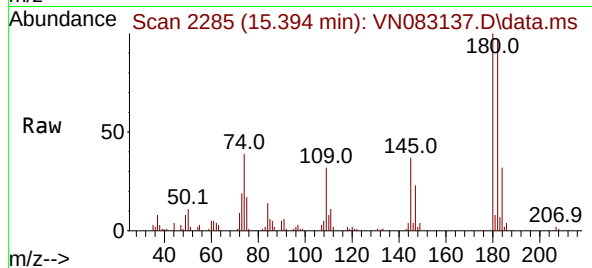
Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020



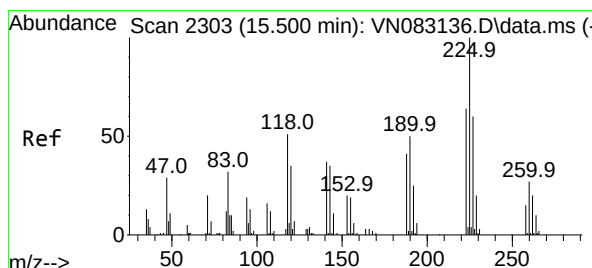
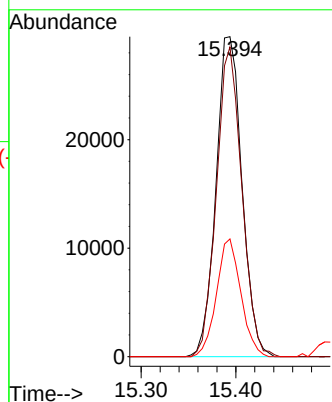
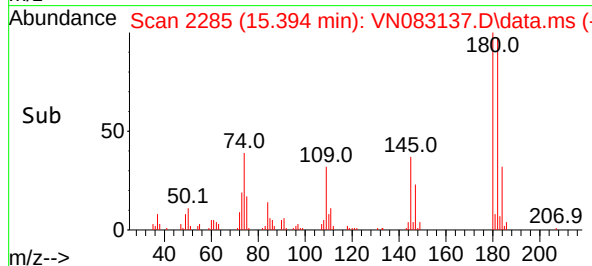
Tgt Ion:	180	Resp:	56299
Ion Ratio	Lower	Upper	
180	100		
182	94.3	47.3	141.8
145	34.5	15.7	47.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#94

Hexachlorobutadiene

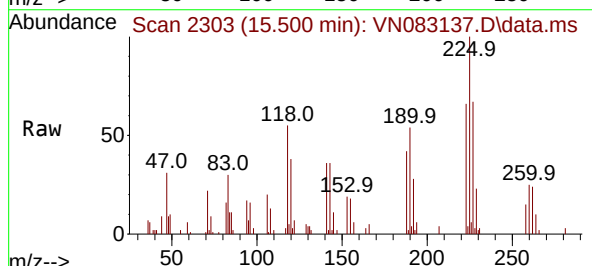
Concen: 18.859 ug/l

RT: 15.500 min Scan# 2303

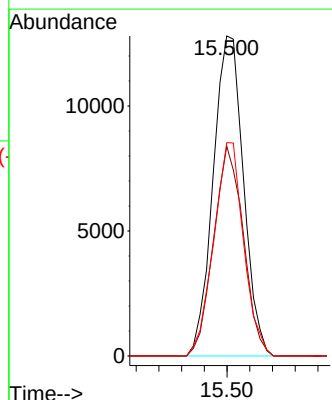
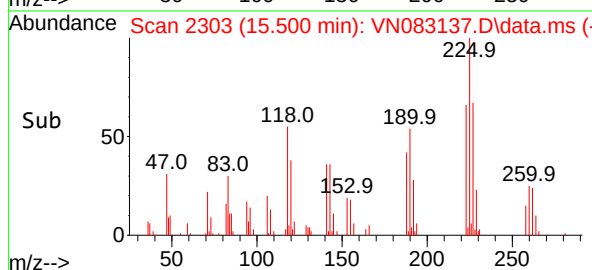
Delta R.T. 0.000 min

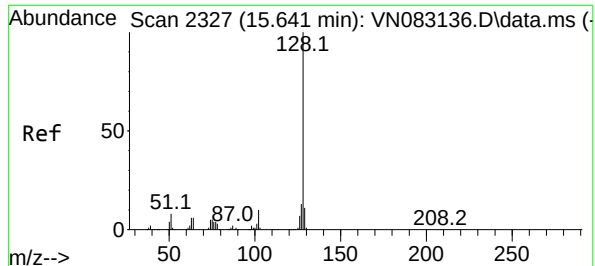
Lab File: VN083137.D

Acq: 07 Aug 2024 11:22



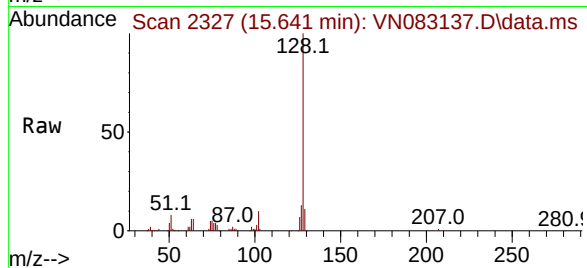
Tgt Ion:	225	Resp:	23725
Ion Ratio	Lower	Upper	
225	100		
223	64.3	31.9	95.7
227	65.7	32.5	97.5





#95
Naphthalene
Concen: 20.047 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

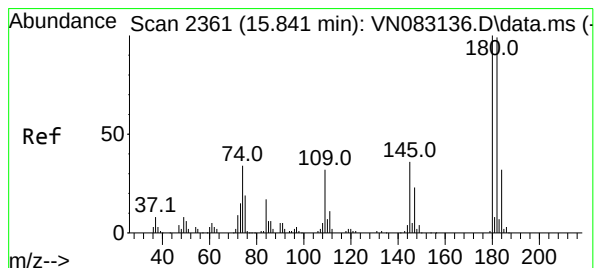
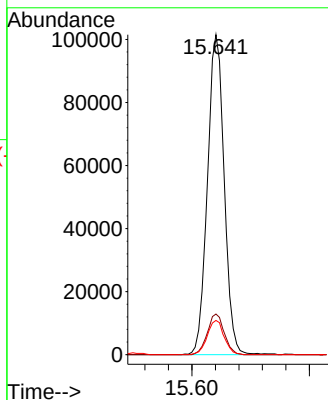
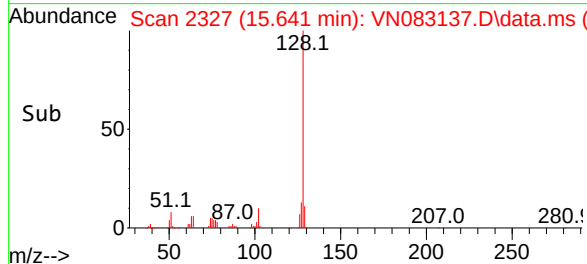
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020



Tgt Ion:128 Resp: 200875
Ion Ratio Lower Upper
128 100
127 12.8 10.6 16.0
129 10.8 8.6 12.8

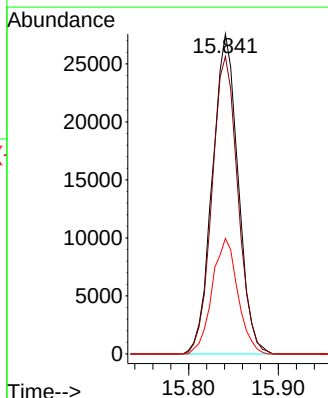
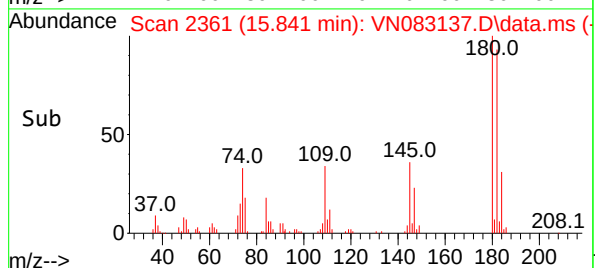
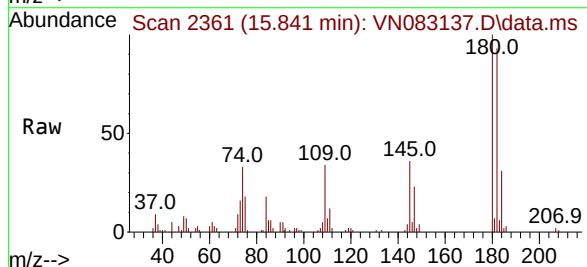
Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#96
1,2,3-Trichlorobenzene
Concen: 19.630 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:180 Resp: 54944
Ion Ratio Lower Upper
180 100
182 93.5 48.9 146.8
145 35.9 16.8 50.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
 Data File : VN083138.D
 Acq On : 07 Aug 2024 11:46
 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 08/08/2024
 Supervised By : Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 06:17:39 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 05:50:26 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	191754	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	332105	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	279409	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	125725	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	27223	9.974	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	19.940%#		
35) Dibromofluoromethane	8.165	113	20382	9.832	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	19.660%#		
50) Toluene-d8	10.565	98	75261	9.733	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	19.460%#		
62) 4-Bromofluorobenzene	12.853	95	28691	9.517	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery =	19.040%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	22206	10.212	ug/l	99
3) Chloromethane	2.359	50	22596	10.150	ug/l	92
4) Vinyl Chloride	2.512	62	23461	10.328	ug/l	99
5) Bromomethane	2.959	94	14783	10.488	ug/l	95
6) Chloroethane	3.118	64	13616	9.581	ug/l	95
7) Trichlorofluoromethane	3.500	101	38868	10.357	ug/l	97
8) Diethyl Ether	3.965	74	14761	10.571	ug/l	86
9) 1,1,2-Trichlorotrifluo...	4.365	101	21081	10.189	ug/l	100
10) Methyl Iodide	4.589	142	27229	10.005	ug/l	96
11) Tert butyl alcohol	5.530	59	29665	52.299	ug/l	97
12) 1,1-Dichloroethene	4.336	96	21633	10.177	ug/l	83
13) Acrolein	4.177	56	19397	52.469	ug/l	92
14) Allyl chloride	5.024	41	41546	10.343	ug/l	89
15) Acrylonitrile	5.724	53	58618	50.248	ug/l	99
16) Acetone	4.430	43	54397	50.933	ug/l	92
17) Carbon Disulfide	4.712	76	61323	9.860	ug/l	97
18) Methyl Acetate	5.036	43	32282	10.145	ug/l	95
19) Methyl tert-butyl Ether	5.794	73	77278	10.072	ug/l	94
20) Methylene Chloride	5.277	84	23553	9.582	ug/l #	83
21) trans-1,2-Dichloroethene	5.788	96	22473	10.229	ug/l	93
22) Diisopropyl ether	6.671	45	77046	10.204	ug/l	91
23) Vinyl Acetate	6.606	43	391151	50.550	ug/l #	94
24) 1,1-Dichloroethane	6.571	63	42035	10.213	ug/l	100
25) 2-Butanone	7.488	43	82451	50.278	ug/l #	90
26) 2,2-Dichloropropane	7.488	77	39561	10.351	ug/l	99
27) cis-1,2-Dichloroethene	7.488	96	26902	10.148	ug/l	93
28) Bromochloromethane	7.818	49	14997	8.916	ug/l	85
29) Tetrahydrofuran	7.841	42	54815	51.708	ug/l	88
30) Chloroform	7.971	83	43421	10.155	ug/l	98
31) Cyclohexane	8.259	56	42564	10.523	ug/l	92
32) 1,1,1-Trichloroethane	8.171	97	41247	10.191	ug/l	92
36) 1,1-Dichloropropene	8.371	75	31681	10.103	ug/l	99
37) Ethyl Acetate	7.565	43	34005	9.685	ug/l #	96
38) Carbon Tetrachloride	8.365	117	35950	10.179	ug/l	93
39) Methylcyclohexane	9.600	83	38738	10.058	ug/l	93
40) Benzene	8.606	78	94885	10.157	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
 Data File : VN083138.D
 Acq On : 07 Aug 2024 11:46
 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 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 06:17:39 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M

Quant Title : SW846 8260

QLast Update : Thu Aug 08 05:50:26 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	18392	9.213	ug/l	93
42) 1,2-Dichloroethane	8.671	62	34826	10.234	ug/l	97
43) Isopropyl Acetate	8.694	43	71420	10.170	ug/l	98
44) Trichloroethene	9.353	130	22669	10.195	ug/l	100
45) 1,2-Dichloropropane	9.624	63	22642	10.211	ug/l	98
46) Dibromomethane	9.706	93	15937	10.041	ug/l	97
47) Bromodichloromethane	9.888	83	35389	9.930	ug/l	97
48) Methyl methacrylate	9.682	41	28711	9.891	ug/l	93
49) 1,4-Dioxane	9.694	88	10545	201.364	ug/l	95
51) 4-Methyl-2-Pentanone	10.447	43	171277	51.587	ug/l	94
52) Toluene	10.629	92	59784	10.129	ug/l	97
53) t-1,3-Dichloropropene	10.835	75	36670	10.017	ug/l	100
54) cis-1,3-Dichloropropene	10.312	75	39503	10.145	ug/l	91
55) 1,1,2-Trichloroethane	11.018	97	21732	10.274	ug/l	94
56) Ethyl methacrylate	10.871	69	40676	10.201	ug/l #	86
57) 1,3-Dichloropropane	11.165	76	38200	10.132	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	87140	51.698	ug/l	96
59) 2-Hexanone	11.194	43	129231	50.312	ug/l	93
60) Dibromochloromethane	11.359	129	25798	10.088	ug/l	99
61) 1,2-Dibromoethane	11.470	107	22707	10.219	ug/l	99
64) Tetrachloroethene	11.106	164	19174	10.362	ug/l	92
65) Chlorobenzene	11.894	112	64445	10.437	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.965	131	22498	10.331	ug/l	99
67) Ethyl Benzene	11.965	91	115664	10.211	ug/l	99
68) m/p-Xylenes	12.070	106	87775	20.687	ug/l	100
69) o-Xylene	12.400	106	43216	10.327	ug/l	97
70) Styrene	12.412	104	72641	10.335	ug/l	97
71) Bromoform	12.582	173	16320	9.893	ug/l #	95
73) Isopropylbenzene	12.694	105	110277	10.487	ug/l	99
74) N-amyl acetate	12.494	43	52998	10.303	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.941	83	30438	10.234	ug/l	98
76) 1,2,3-Trichloropropane	12.994	75	28359m	10.261	ug/l	
77) Bromobenzene	12.982	156	23781	10.180	ug/l	93
78) n-propylbenzene	13.035	91	125678	10.379	ug/l	99
79) 2-Chlorotoluene	13.123	91	80065	10.429	ug/l	96
80) 1,3,5-Trimethylbenzene	13.176	105	91559	10.400	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.735	75	11760	9.271	ug/l	95
82) 4-Chlorotoluene	13.223	91	78348	10.174	ug/l	97
83) tert-Butylbenzene	13.441	119	80263	10.294	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	92502	10.426	ug/l	97
85) sec-Butylbenzene	13.617	105	108740	10.221	ug/l	98
86) p-Isopropyltoluene	13.729	119	88256	10.047	ug/l	97
87) 1,3-Dichlorobenzene	13.735	146	44168	10.048	ug/l	97
88) 1,4-Dichlorobenzene	13.811	146	44036	9.937	ug/l	96
89) n-Butylbenzene	14.059	91	76567	10.060	ug/l	99
90) Hexachloroethane	14.335	117	17798	10.487	ug/l	93
91) 1,2-Dichlorobenzene	14.106	146	43734	10.282	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.723	75	7258	10.056	ug/l	98
93) 1,2,4-Trichlorobenzene	15.394	180	23580	9.895	ug/l	98
94) Hexachlorobutadiene	15.500	225	10788	10.179	ug/l	99
95) Naphthalene	15.641	128	86373	10.232	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	24492	10.387	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083138.D
Acq On : 07 Aug 2024 11:46
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 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 06:17:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
Response via : Initial Calibration

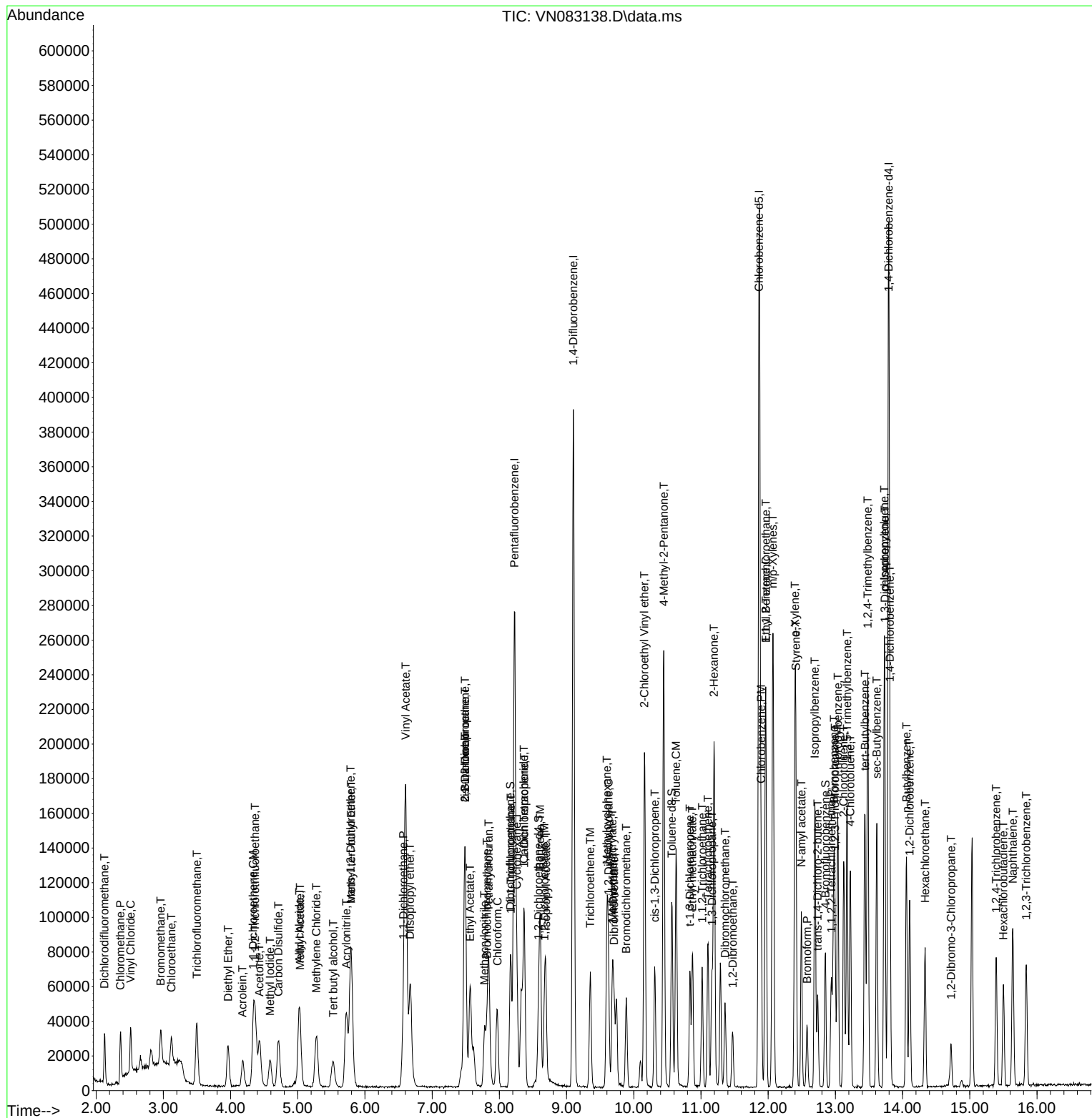
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

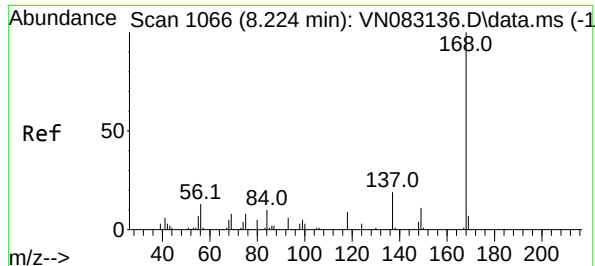
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations

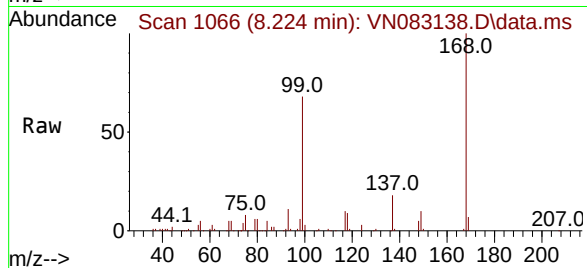
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

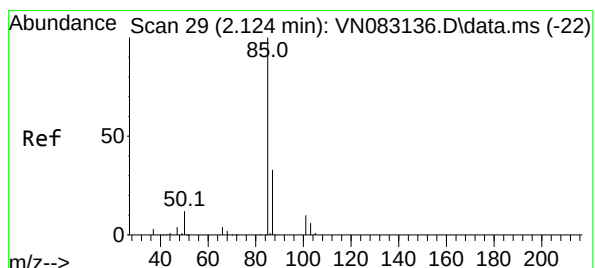
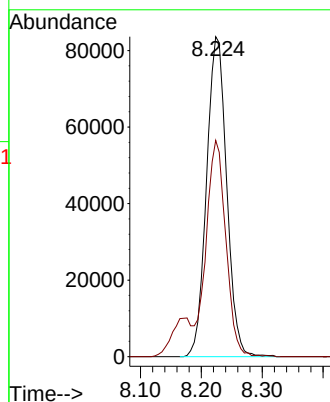
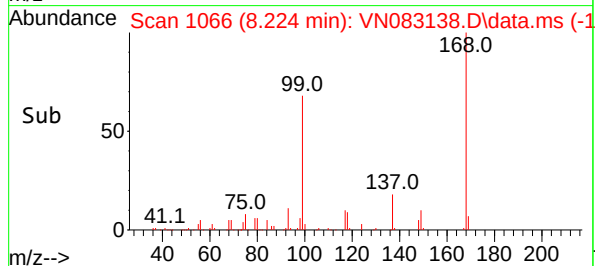
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion:168 Resp: 191754
Ion Ratio Lower Upper
168 100
99 67.6 48.2 72.4

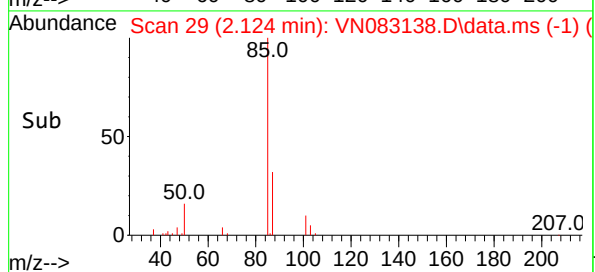
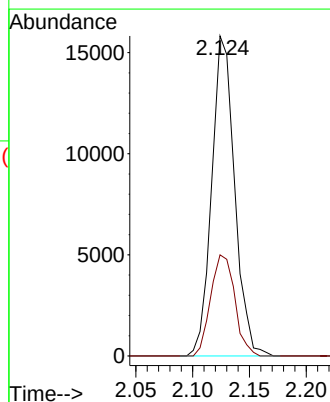
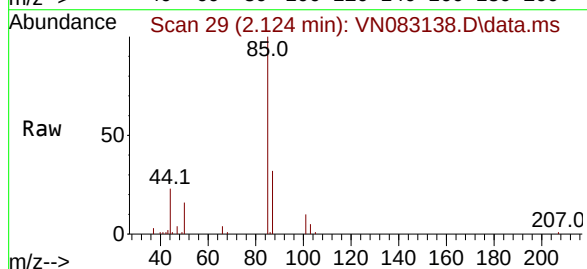
Manual Integrations
APPROVED

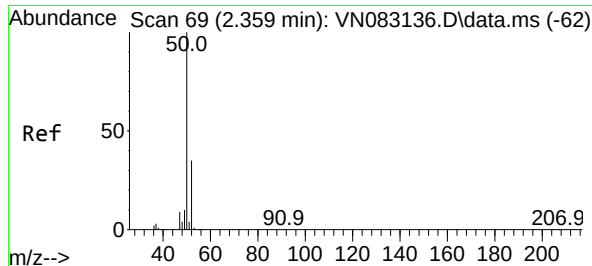
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#2
Dichlorodifluoromethane
Concen: 10.212 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 85 Resp: 22206
Ion Ratio Lower Upper
85 100
87 31.6 15.7 47.0





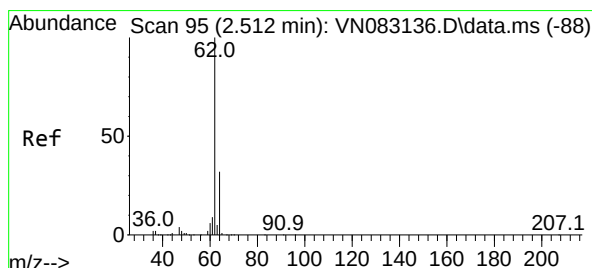
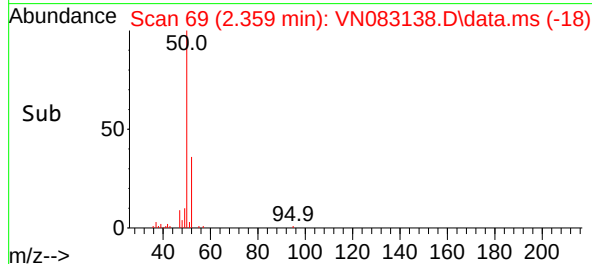
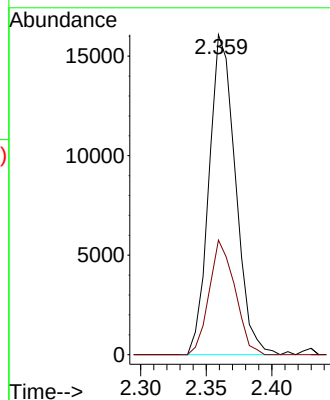
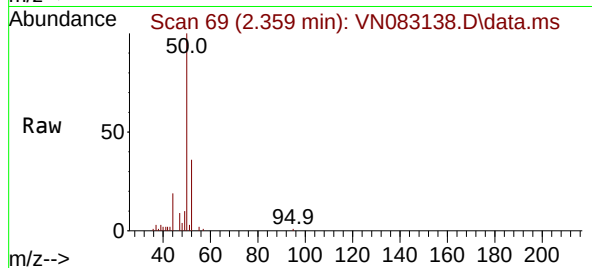
#3
Chloromethane
Concen: 10.150 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 50 Resp: 22590
Ion Ratio Lower Upper
50 100
52 35.8 25.0 37.4

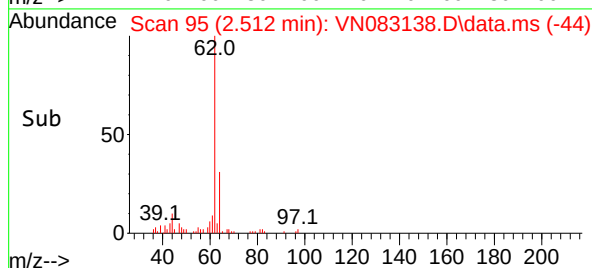
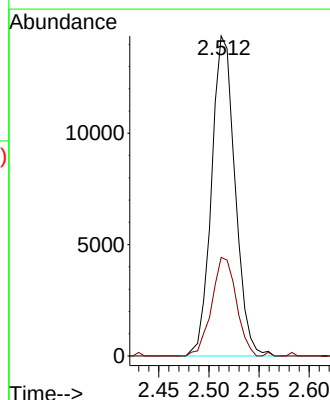
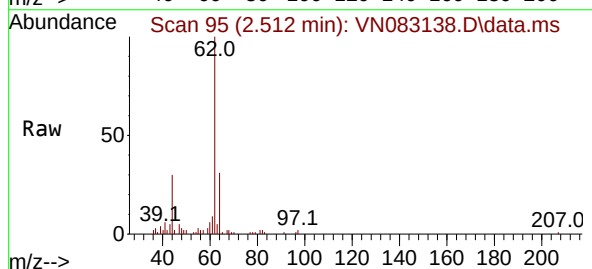
Manual Integrations
APPROVED

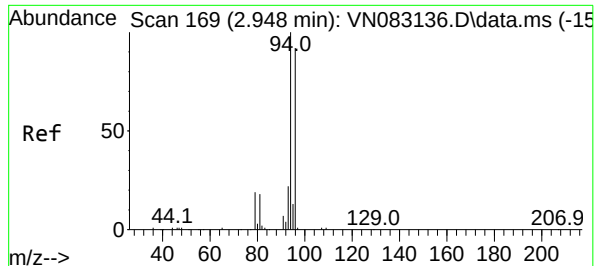
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#4
Vinyl Chloride
Concen: 10.328 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 62 Resp: 23461
Ion Ratio Lower Upper
62 100
64 30.8 25.0 37.6





#5

Bromomethane

Concen: 10.488 ug/l

RT: 2.959 min Scan# 11

Delta R.T. 0.012 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 94 Resp: 1478

Ion Ratio Lower Upper

94 100

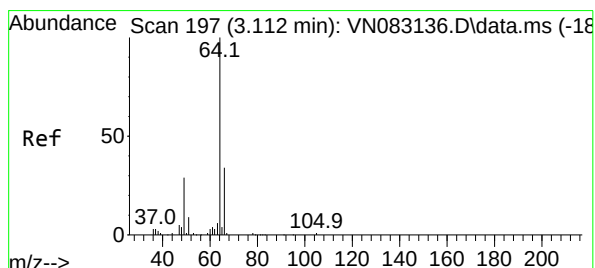
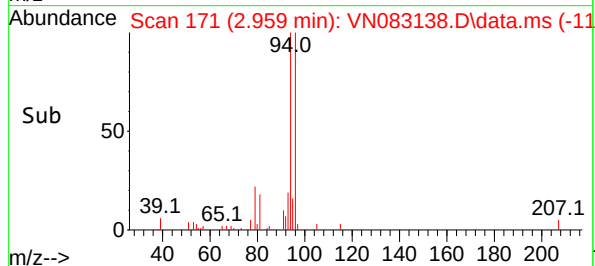
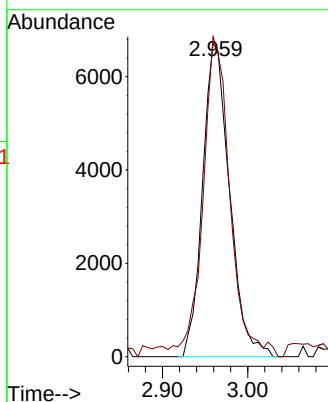
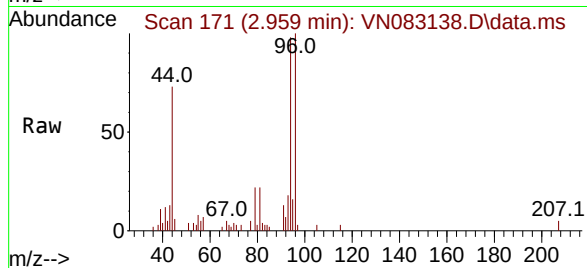
96 102.2 78.0 117.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#6

Chloroethane

Concen: 9.581 ug/l

RT: 3.118 min Scan# 198

Delta R.T. 0.006 min

Lab File: VN083138.D

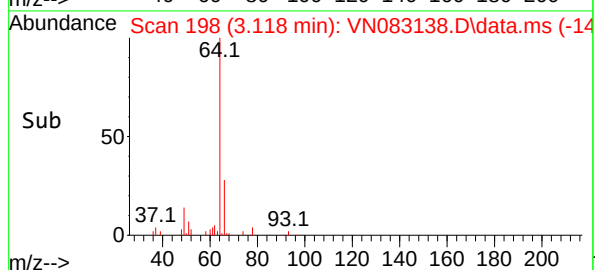
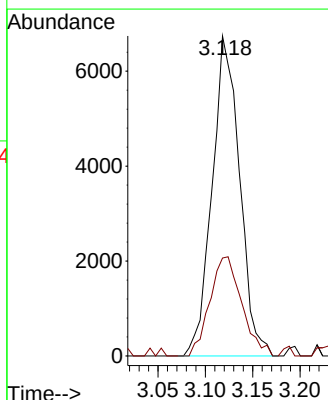
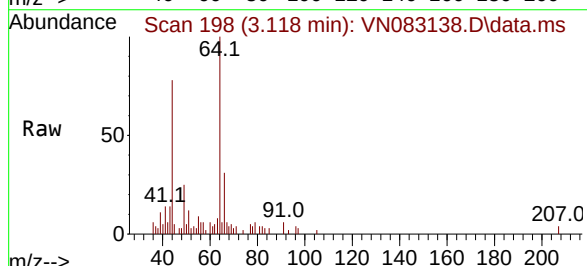
Acq: 07 Aug 2024 11:46

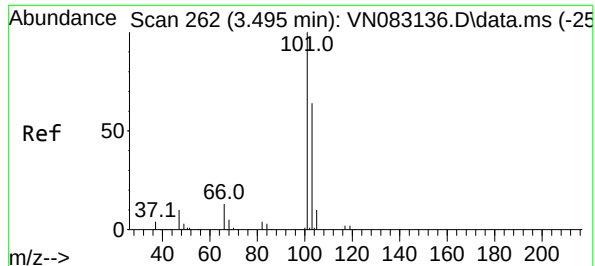
Tgt Ion: 64 Resp: 13616

Ion Ratio Lower Upper

64 100

66 30.6 26.6 40.0





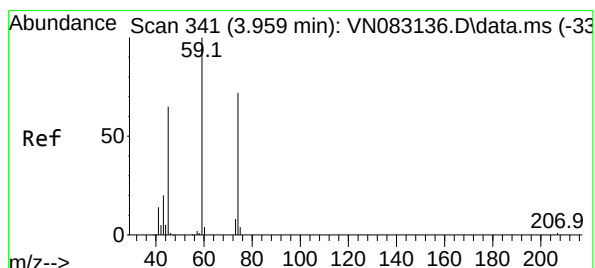
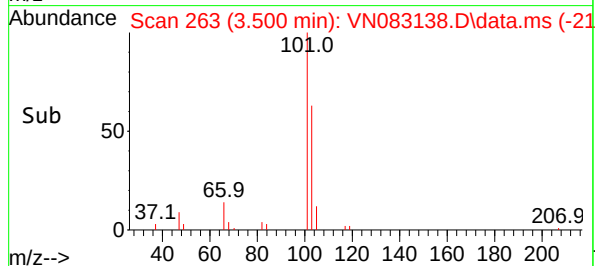
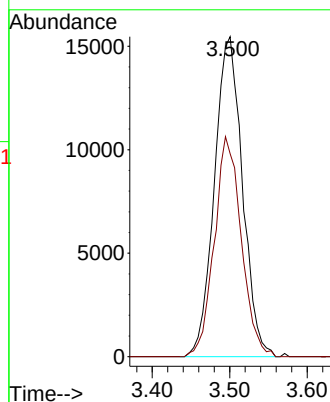
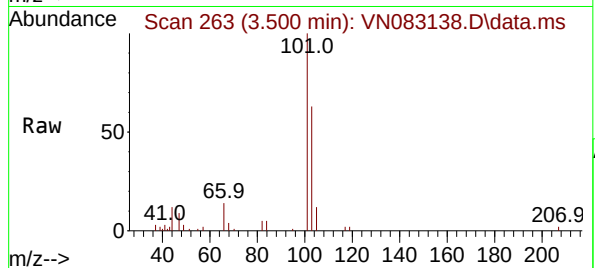
#7
Trichlorofluoromethane
Concen: 10.357 ug/l
RT: 3.500 min Scan# 20
Delta R.T. 0.005 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion:101 Resp: 3886
Ion Ratio Lower Upper
101 100
103 63.5 52.7 79.1

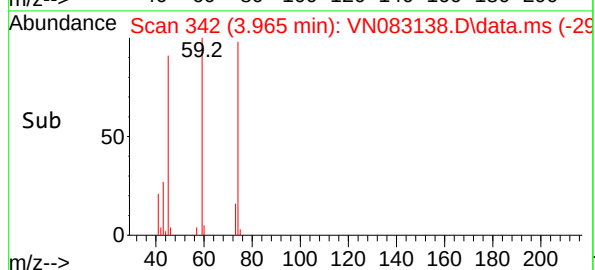
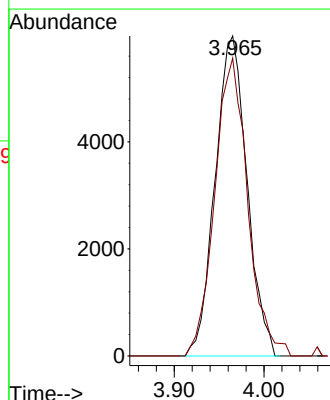
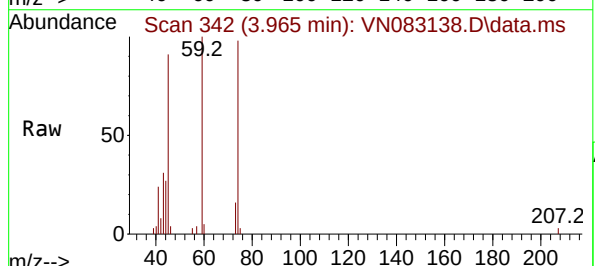
Manual Integrations
APPROVED

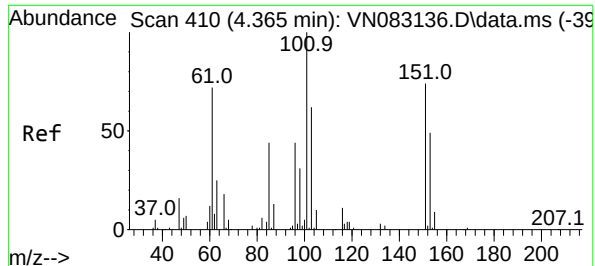
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#8
Diethyl Ether
Concen: 10.571 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 74 Resp: 14761
Ion Ratio Lower Upper
74 100
45 95.9 55.5 166.3





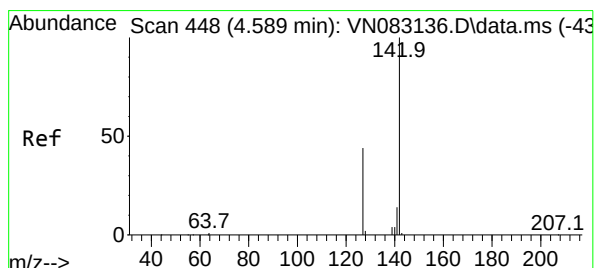
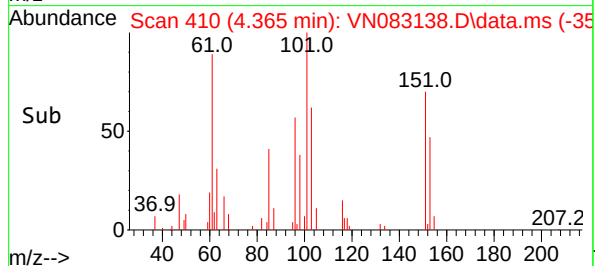
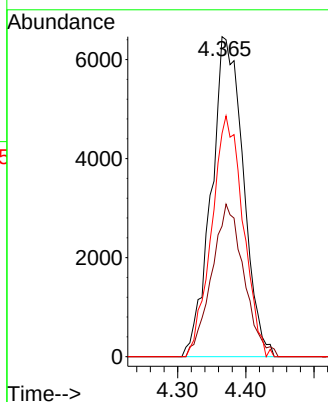
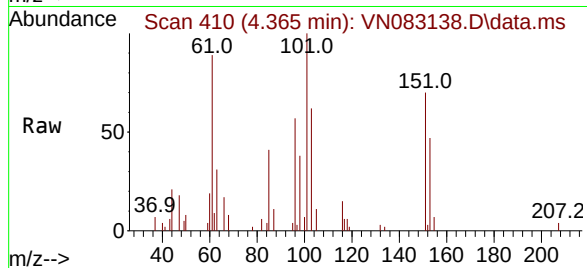
#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.189 ug/l
RT: 4.365 min Scan# 410
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion	Ratio	Lower	Upper
101	100		
85	48.0	38.3	57.5
151	74.1	59.3	88.9

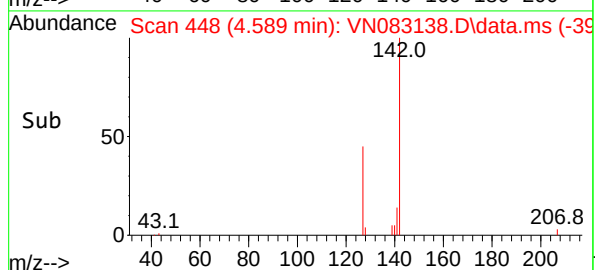
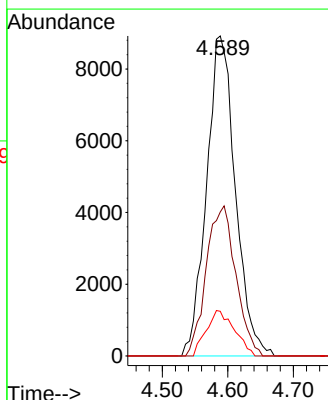
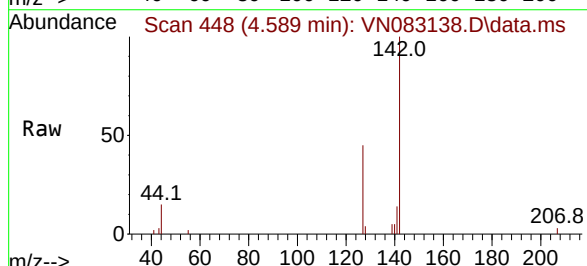
Manual Integrations
APPROVED

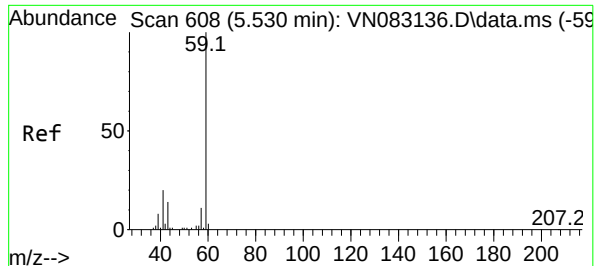
Reviewed By :John Carbone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#10
Methyl Iodide
Concen: 10.005 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion	Ratio	Lower	Upper
142	100		
127	45.0	37.5	56.3
141	13.9	13.1	19.7





#11

Tert butyl alcohol

Concen: 52.299 ug/l

RT: 5.530 min Scan# 608

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 59 Resp: 2966

Ion Ratio Lower Upper

59 100

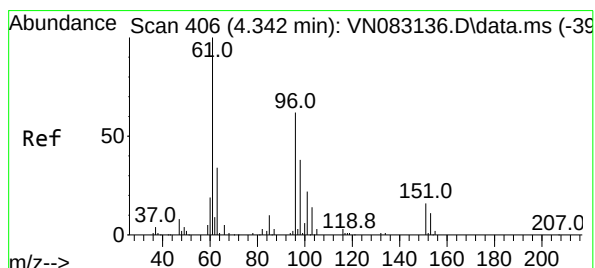
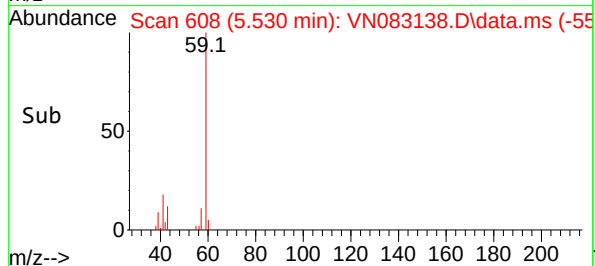
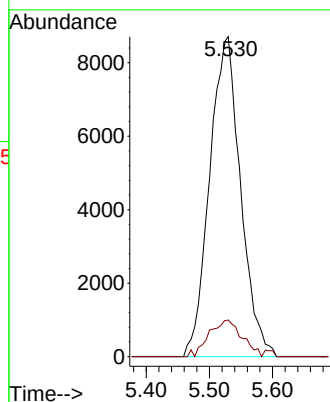
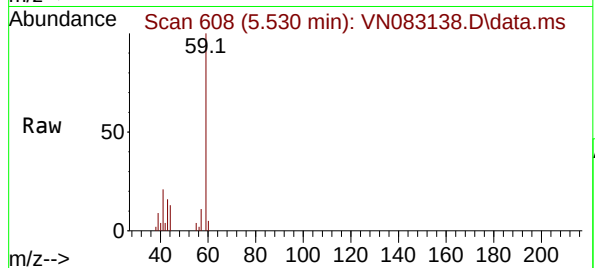
57 12.1 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#12

1,1-Dichloroethene

Concen: 10.177 ug/l

RT: 4.336 min Scan# 405

Delta R.T. -0.006 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

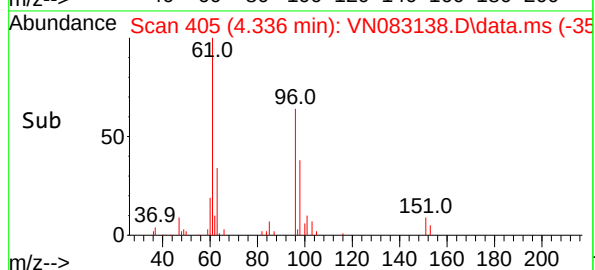
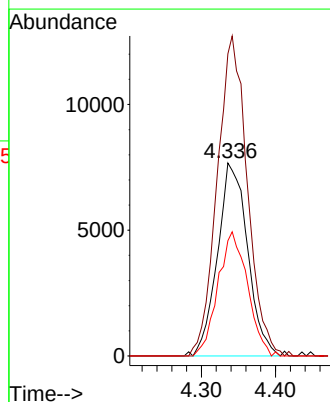
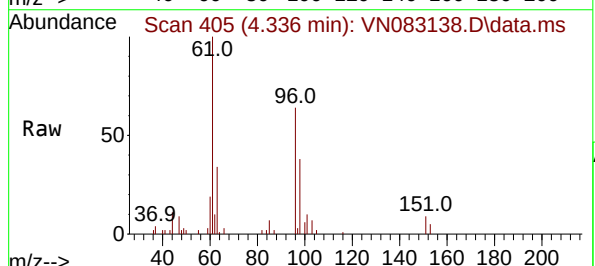
Tgt Ion: 96 Resp: 21633

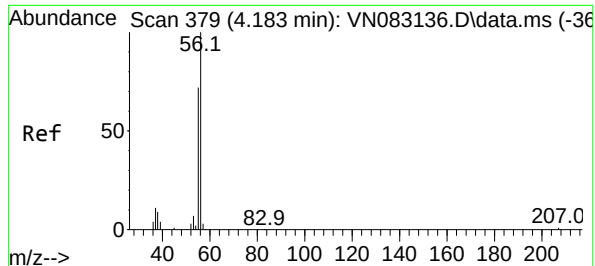
Ion Ratio Lower Upper

96 100

61 156.5 149.7 224.5

98 59.7 50.1 75.1





#13

Acrolein

Concen: 52.469 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.006 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 56 Resp: 1939

Ion Ratio Lower Upper

56 100

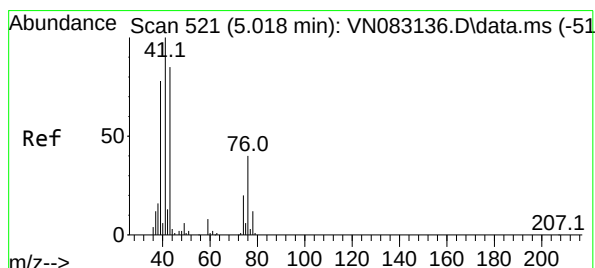
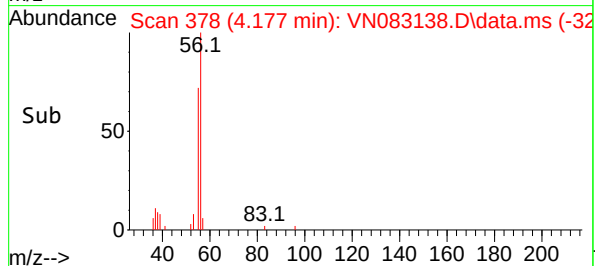
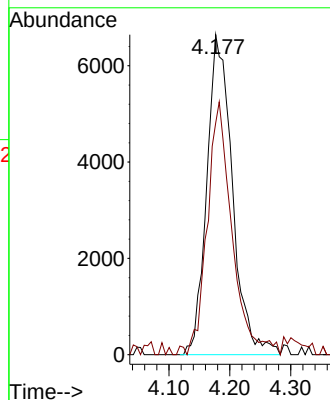
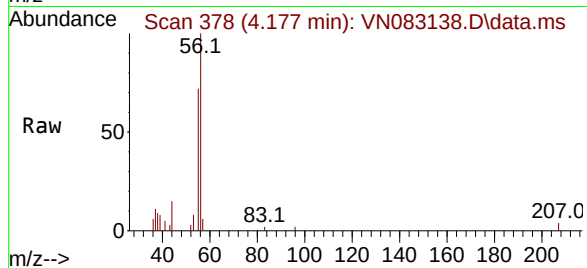
55 77.0 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#14

Allyl chloride

Concen: 10.343 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

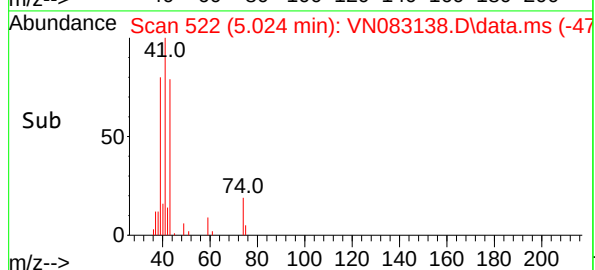
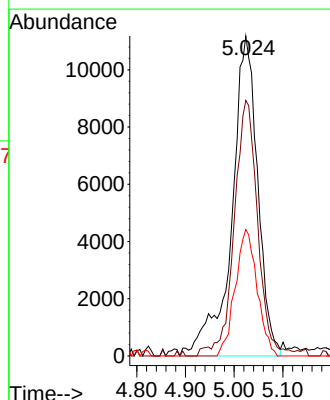
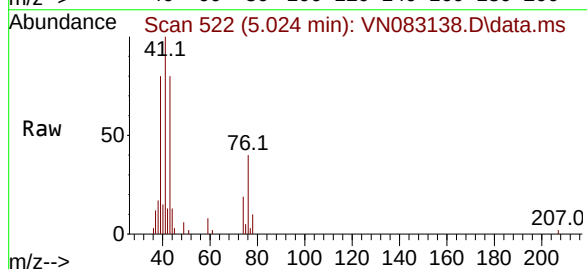
Tgt Ion: 41 Resp: 41546

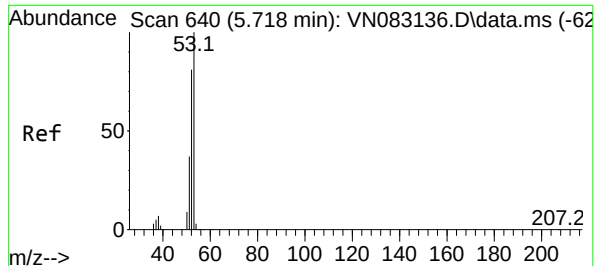
Ion Ratio Lower Upper

41 100

39 72.0 67.8 101.6

76 33.2 25.8 38.8





#15

Acrylonitrile

Concen: 50.248 ug/l

RT: 5.724 min Scan# 640

Delta R.T. 0.006 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 53 Resp: 58618

Ion Ratio Lower Upper

53 100

52 83.1 66.6 100.0

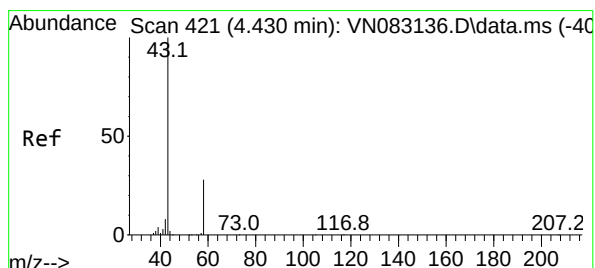
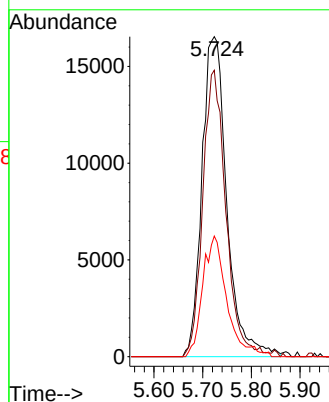
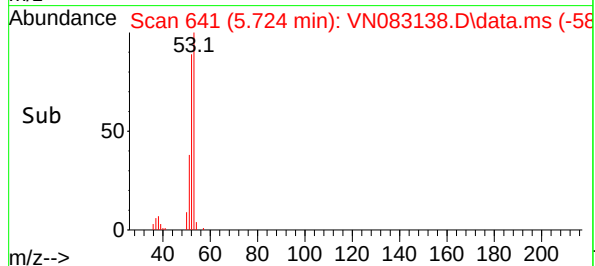
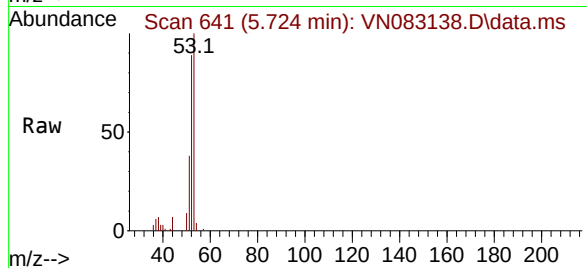
51 36.6 30.1 45.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#16

Acetone

Concen: 50.933 ug/l

RT: 4.430 min Scan# 421

Delta R.T. -0.000 min

Lab File: VN083138.D

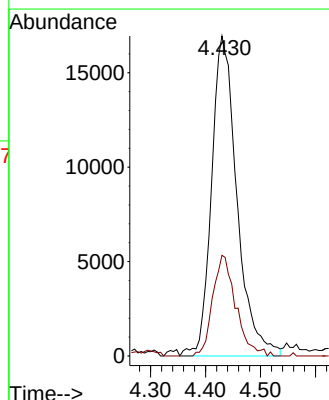
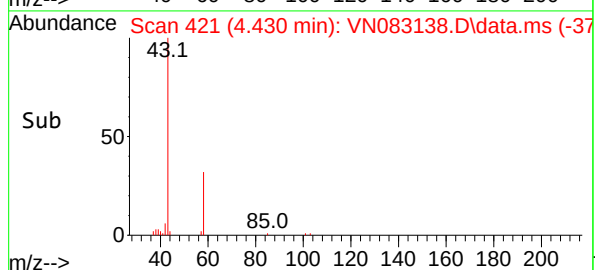
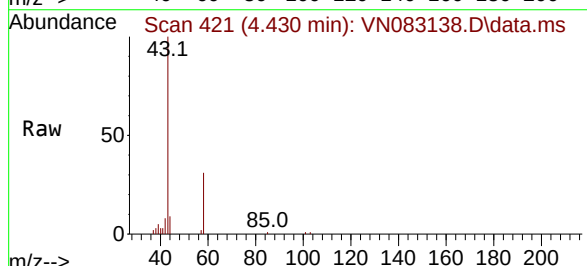
Acq: 07 Aug 2024 11:46

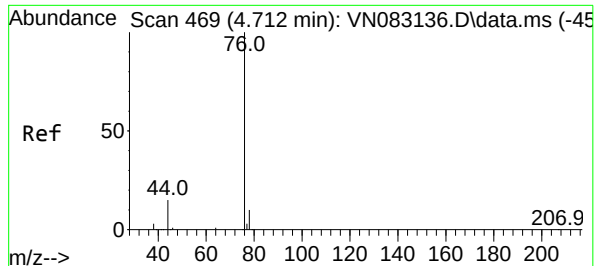
Tgt Ion: 43 Resp: 54397

Ion Ratio Lower Upper

43 100

58 31.4 21.8 32.6





#17

Carbon Disulfide

Concen: 9.860 ug/l

RT: 4.712 min Scan# 4

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 76 Resp: 6132

Ion Ratio Lower Upper

76 100

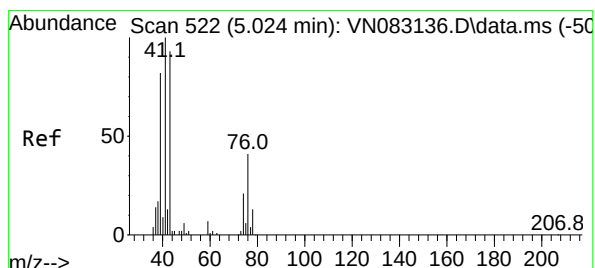
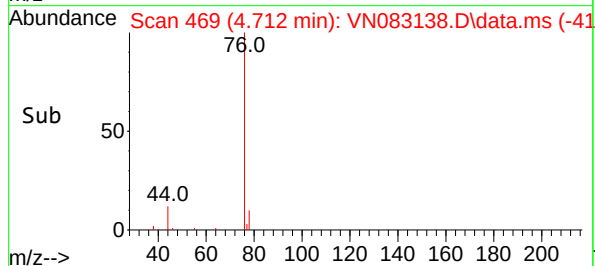
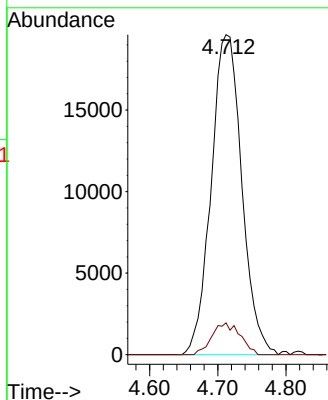
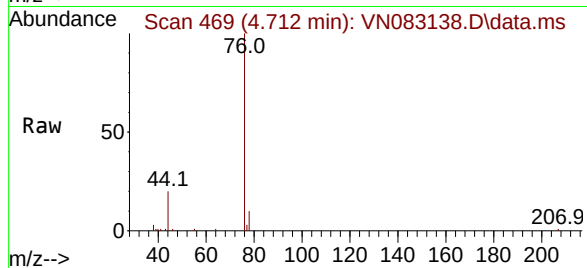
78 9.9 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#18

Methyl Acetate

Concen: 10.145 ug/l

RT: 5.036 min Scan# 524

Delta R.T. 0.012 min

Lab File: VN083138.D

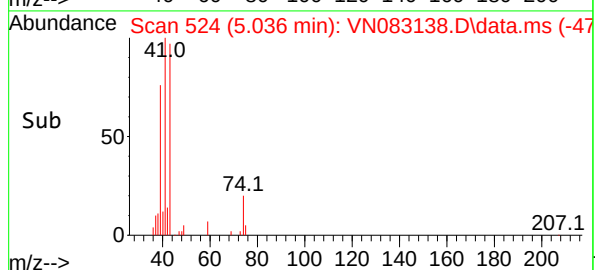
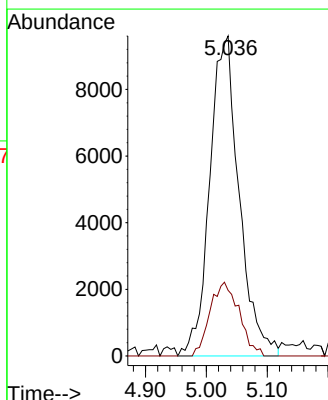
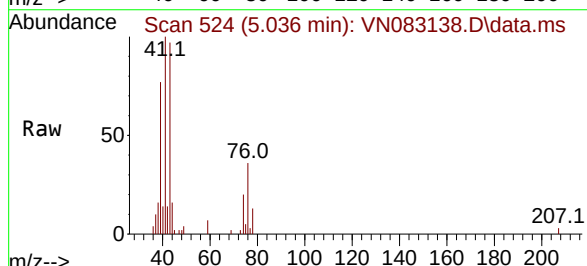
Acq: 07 Aug 2024 11:46

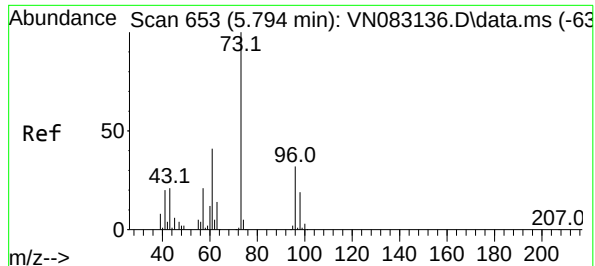
Tgt Ion: 43 Resp: 32282

Ion Ratio Lower Upper

43 100

74 22.8 16.3 24.5





#19

Methyl tert-butyl Ether

Concen: 10.072 ug/l

RT: 5.794 min Scan# 653

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 73 Resp: 77278

Ion Ratio Lower Upper

73 100

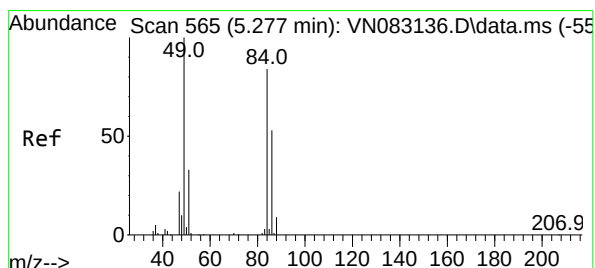
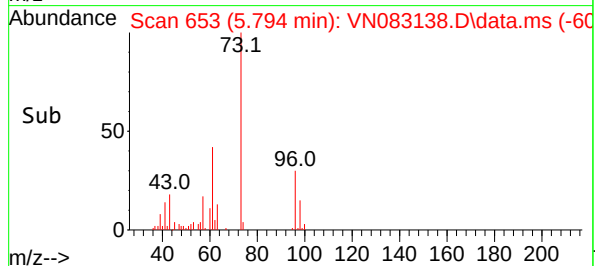
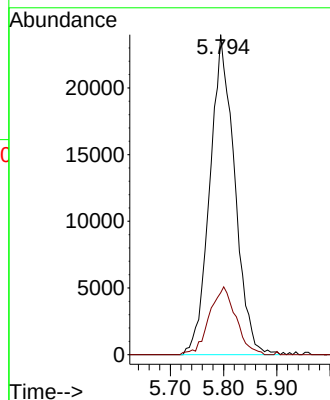
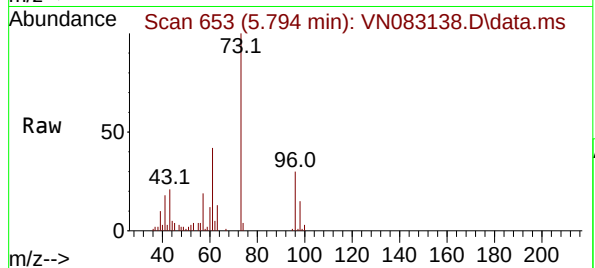
57 19.3 17.9 26.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#20

Methylene Chloride

Concen: 9.582 ug/l

RT: 5.277 min Scan# 565

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Tgt Ion: 84 Resp: 23553

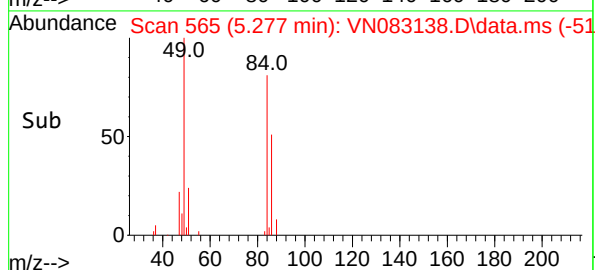
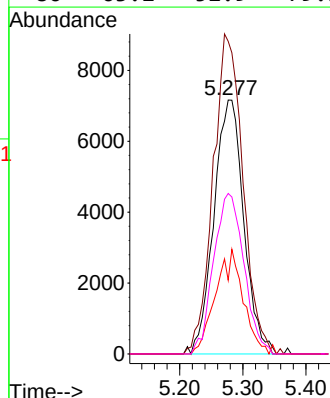
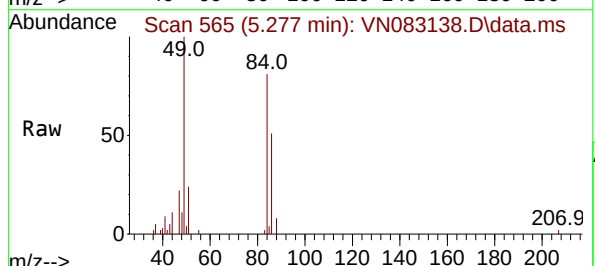
Ion Ratio Lower Upper

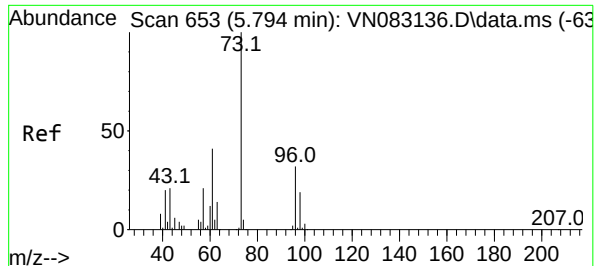
84 100

49 123.1 119.6 179.4

51 29.0 34.8 52.2#

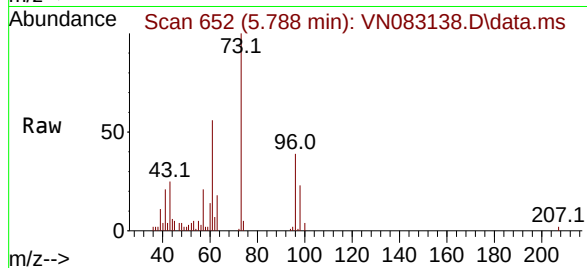
86 63.2 52.9 79.3





#21
trans-1,2-Dichloroethene
Concen: 10.229 ug/l
RT: 5.788 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

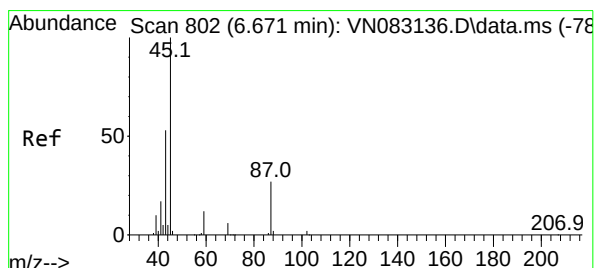
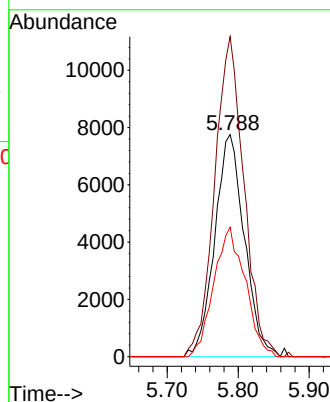
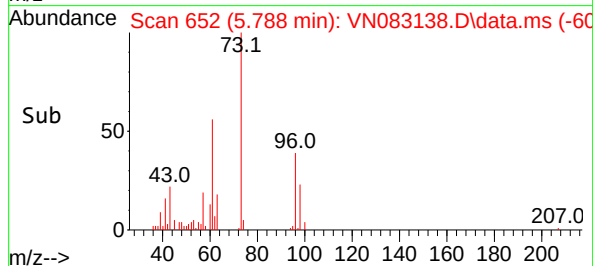
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion: 96 Resp: 2247
Ion Ratio Lower Upper
96 100
61 144.0 123.4 185.2
98 58.3 49.3 73.9

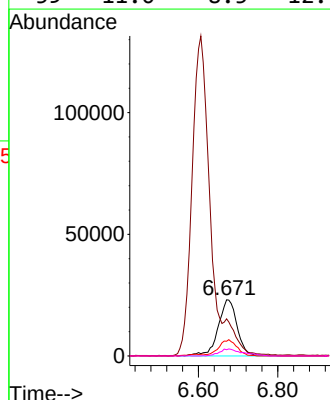
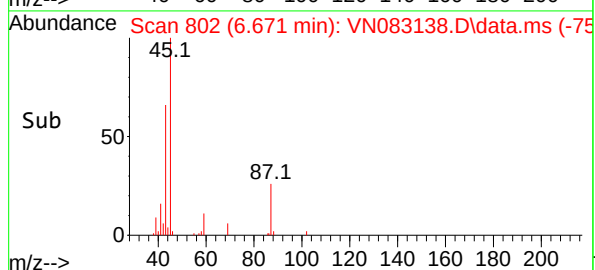
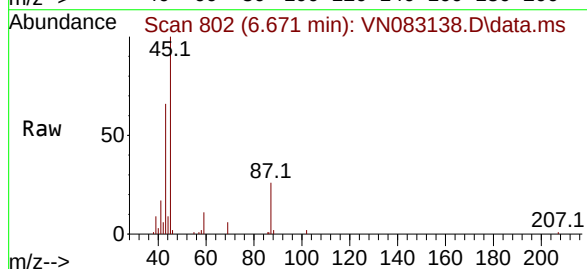
Manual Integrations
APPROVED

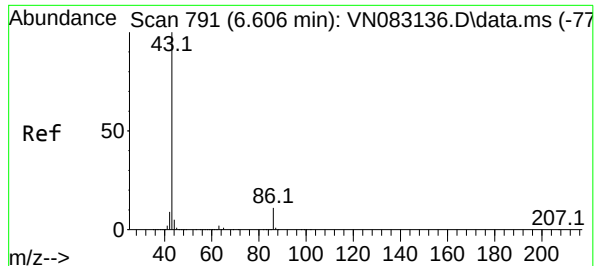
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#22
Diisopropyl ether
Concen: 10.204 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 45 Resp: 77046
Ion Ratio Lower Upper
45 100
43 64.3 44.0 66.0
87 26.1 19.7 29.5
59 11.0 8.5 12.7





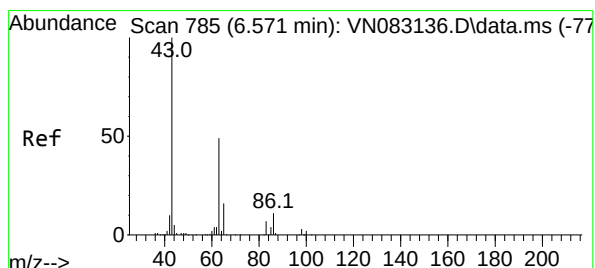
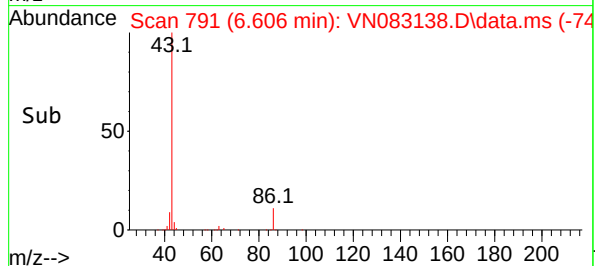
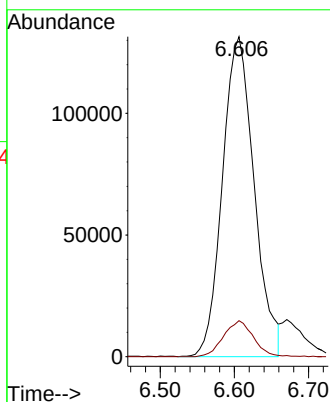
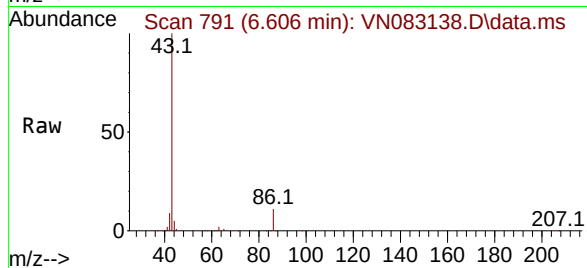
#23
Vinyl Acetate
Concen: 50.550 ug/l
RT: 6.606 min Scan# 791
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 39115
Ion Ratio Lower Upper
43 100
86 11.2 7.3 10.9

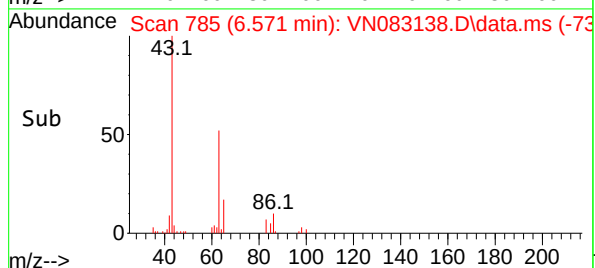
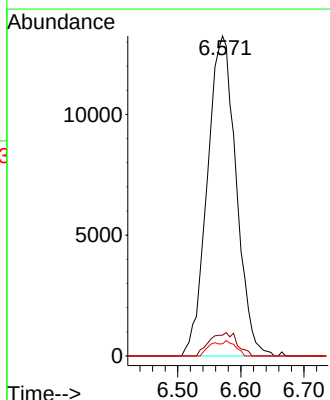
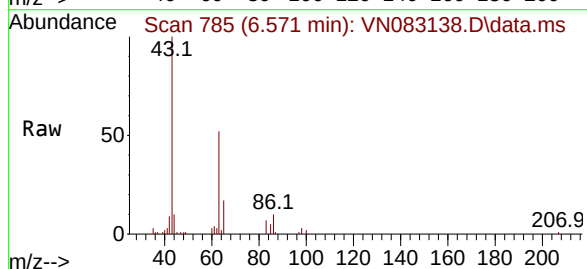
Manual Integrations
APPROVED

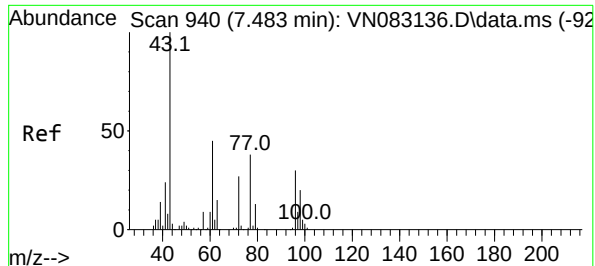
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#24
1,1-Dichloroethane
Concen: 10.213 ug/l
RT: 6.571 min Scan# 785
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 63 Resp: 42035
Ion Ratio Lower Upper
63 100
98 6.5 3.3 9.9
100 3.8 2.0 6.0





#25

2-Butanone

Concen: 50.278 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 43 Resp: 8245

Ion Ratio Lower Upper

43 100

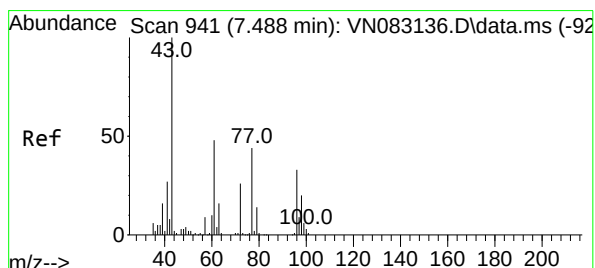
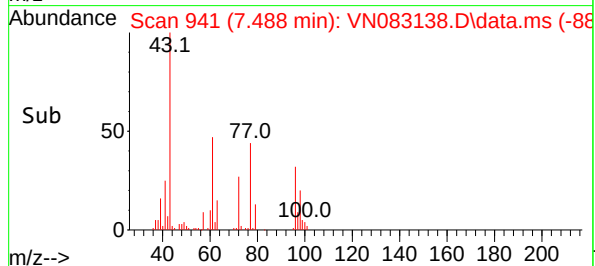
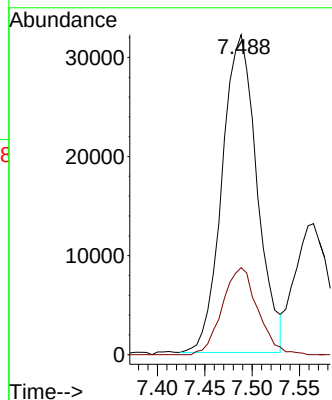
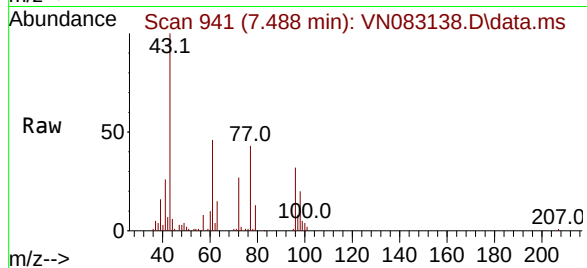
72 27.4 18.2 27.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#26

2,2-Dichloropropane

Concen: 10.351 ug/l

RT: 7.488 min Scan# 941

Delta R.T. -0.000 min

Lab File: VN083138.D

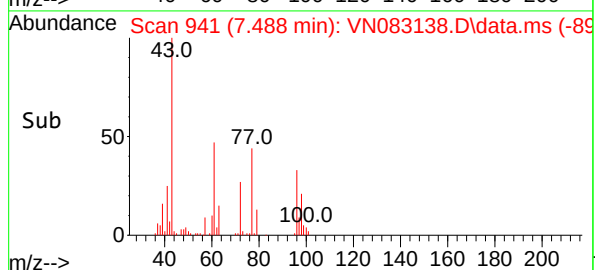
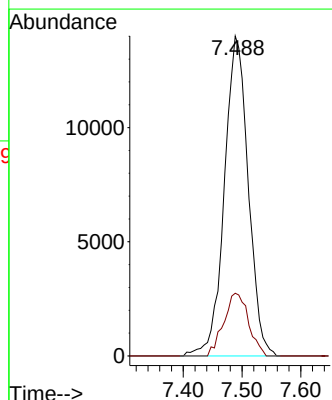
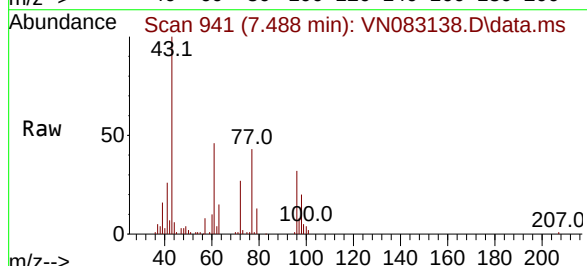
Acq: 07 Aug 2024 11:46

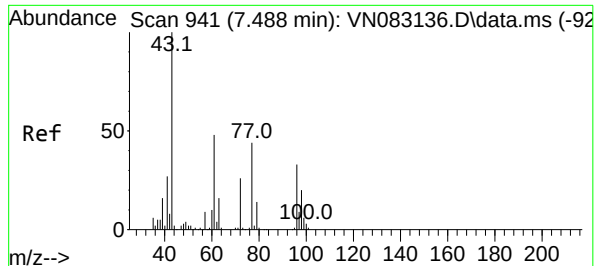
Tgt Ion: 77 Resp: 39561

Ion Ratio Lower Upper

77 100

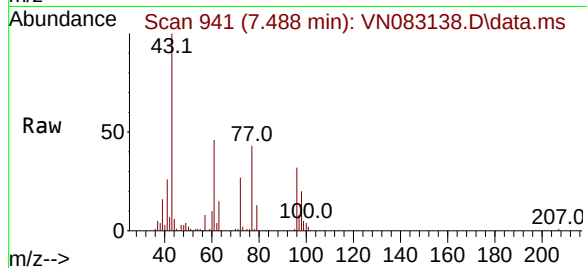
97 20.2 10.3 30.9





#27
cis-1,2-Dichloroethene
Concen: 10.148 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

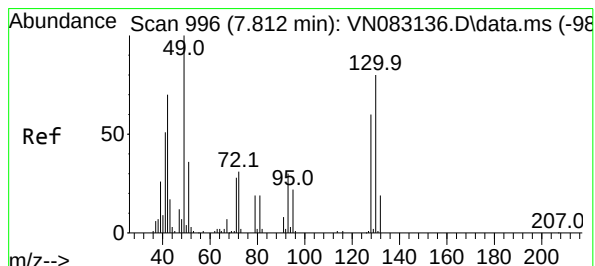
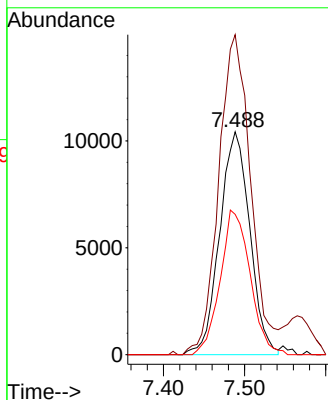
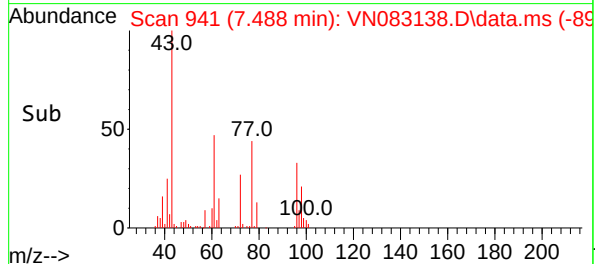
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion: 96 Resp: 26902
Ion Ratio Lower Upper
96 100
61 152.1 0.0 329.6
98 64.4 0.0 128.6

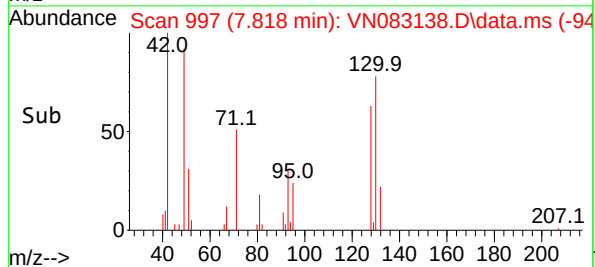
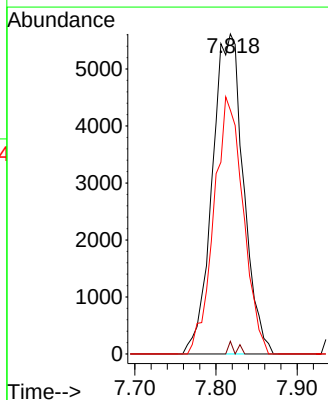
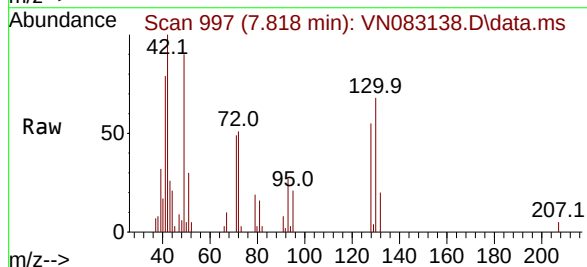
Manual Integrations
APPROVED

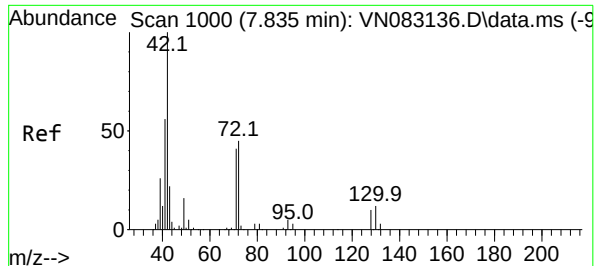
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#28
Bromochloromethane
Concen: 8.916 ug/l
RT: 7.818 min Scan# 997
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 49 Resp: 14997
Ion Ratio Lower Upper
49 100
129 0.9 0.0 3.8
130 75.4 50.5 75.7





#29

Tetrahydrofuran

Concen: 51.708 ug/l

RT: 7.841 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

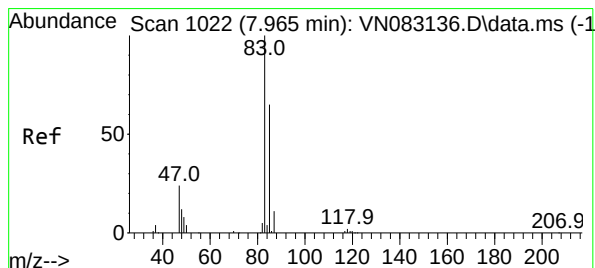
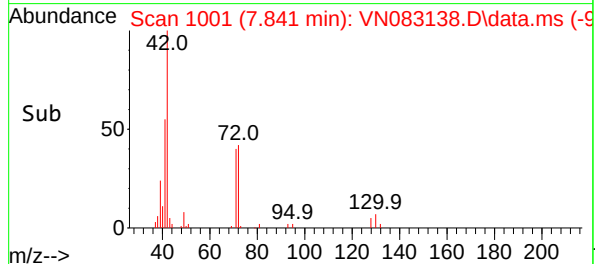
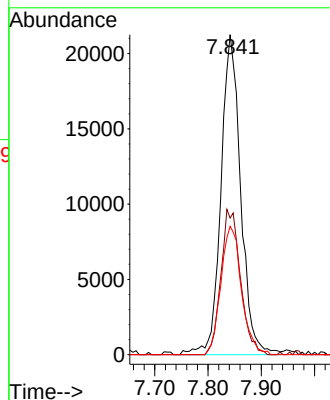
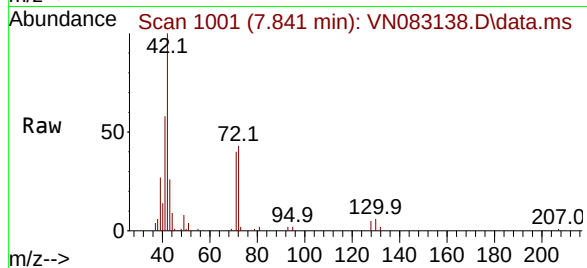
Tgt Ion:	42	Resp:	5481
Ion	Ratio	Lower	Upper
42	100		
72	44.9	30.0	45.0
71	41.8	28.3	42.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#30

Chloroform

Concen: 10.155 ug/l

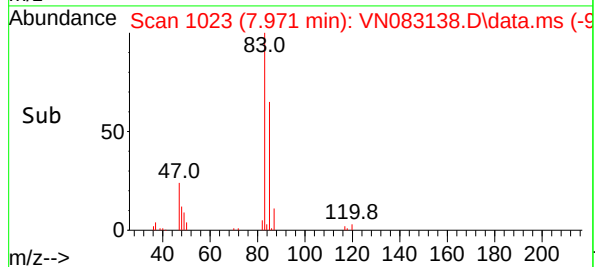
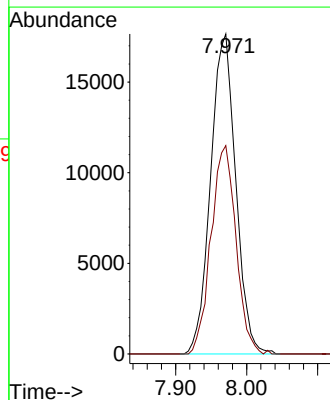
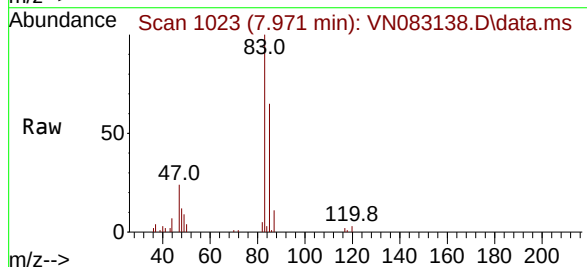
RT: 7.971 min Scan# 1023

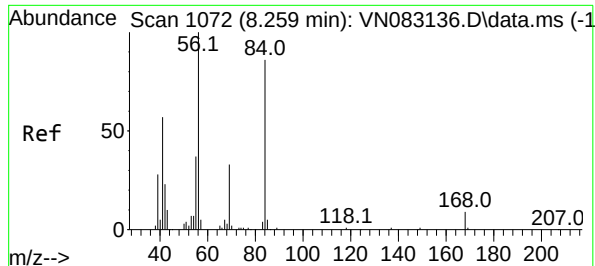
Delta R.T. 0.006 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

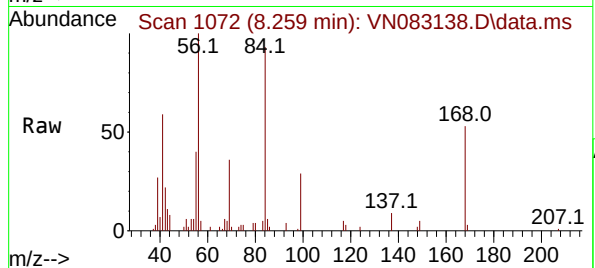
Tgt Ion:	83	Resp:	43421
Ion	Ratio	Lower	Upper
83	100		
85	65.1	50.9	76.3





#31
Cyclohexane
Concen: 10.523 ug/l
RT: 8.259 min Scan# 1072
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

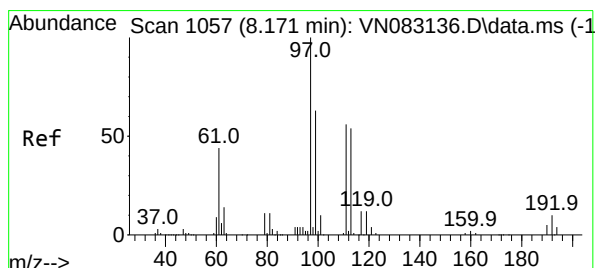
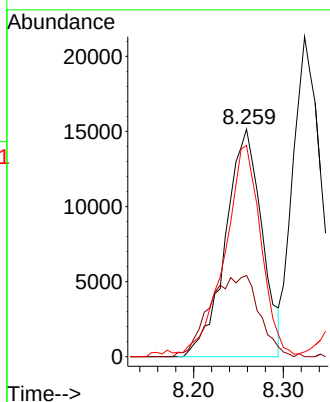
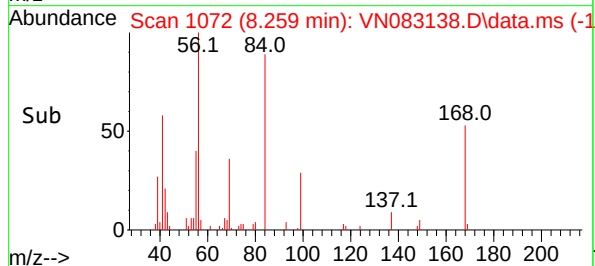
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion: 56 Resp: 42564
Ion Ratio Lower Upper
56 100
69 34.0 24.5 36.7
84 90.8 66.0 99.0

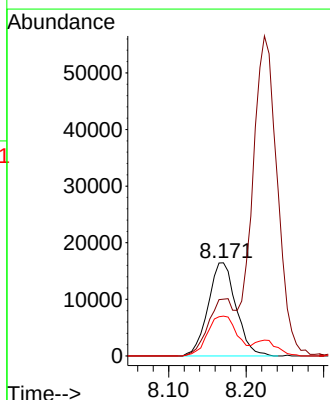
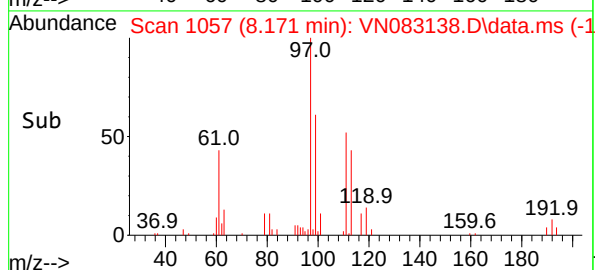
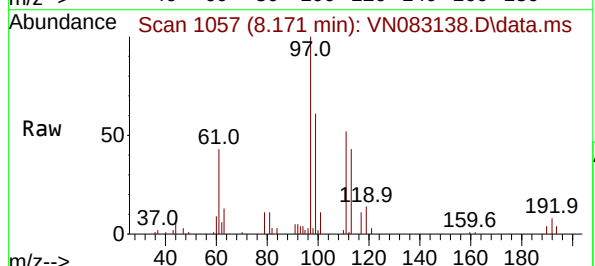
Manual Integrations
APPROVED

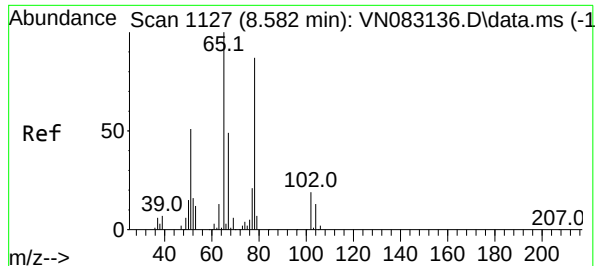
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#32
1,1,1-Trichloroethane
Concen: 10.191 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 97 Resp: 41247
Ion Ratio Lower Upper
97 100
99 59.5 52.0 78.0
61 46.2 42.1 63.1





#33

1,2-Dichloroethane-d4

Concen: 9.974 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 65 Resp: 2722

Ion Ratio Lower Upper

65 100

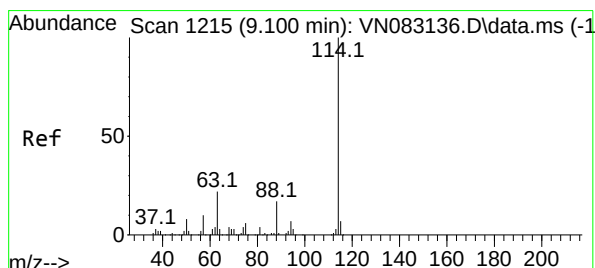
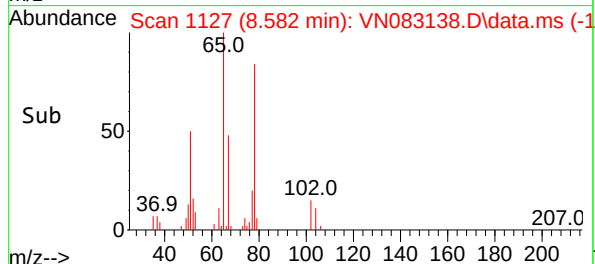
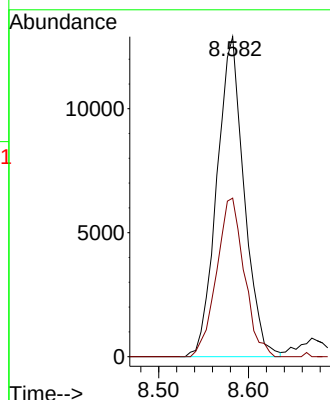
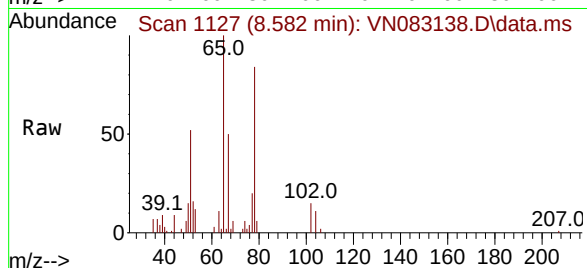
67 50.3 0.0 104.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

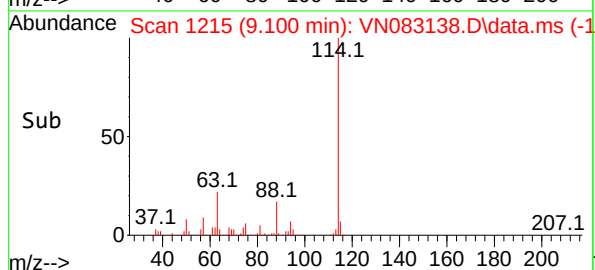
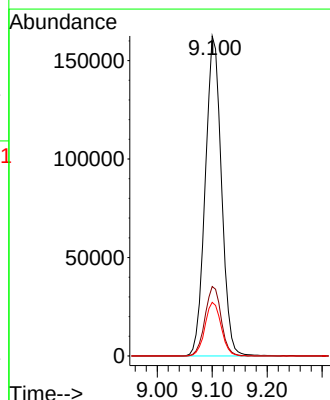
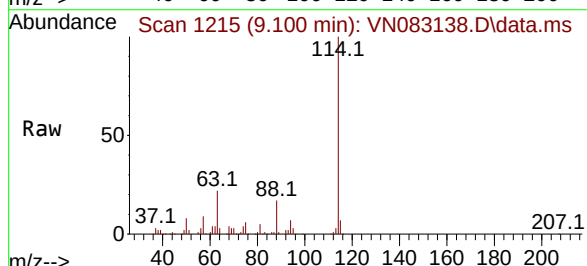
Tgt Ion:114 Resp: 332105

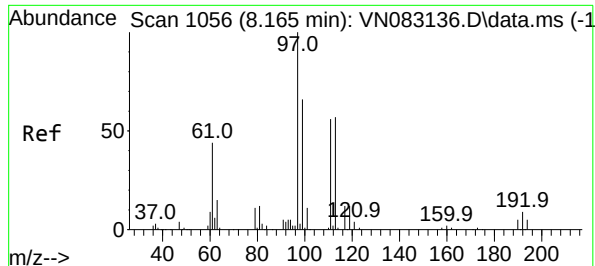
Ion Ratio Lower Upper

114 100

63 21.7 0.0 44.6

88 16.8 0.0 31.4





#35

Dibromofluoromethane

Concen: 9.832 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

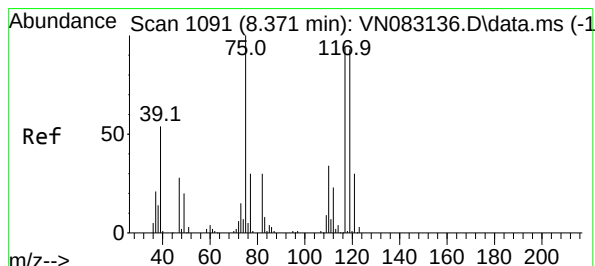
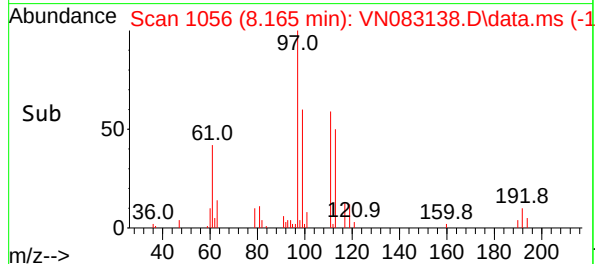
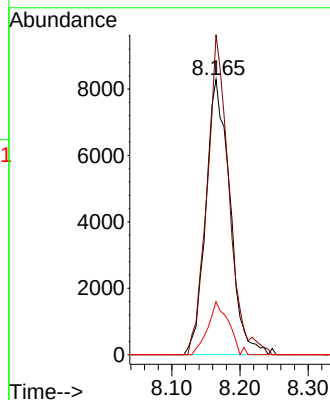
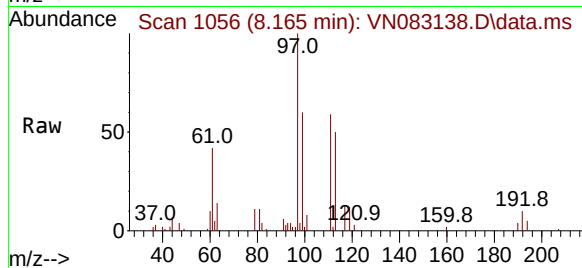
Tgt Ion:	113	Resp:	2038
Ion	Ratio	Lower	Upper
113	100		
111	105.9	82.4	123.6
192	16.7	14.9	22.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#36

1,1-Dichloropropene

Concen: 10.103 ug/l

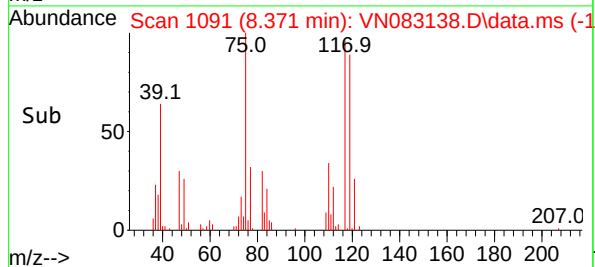
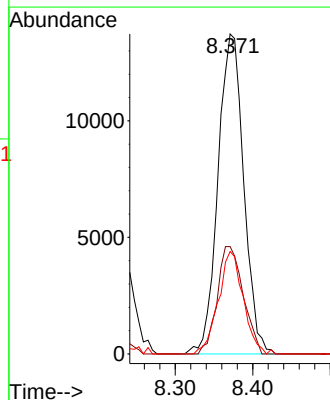
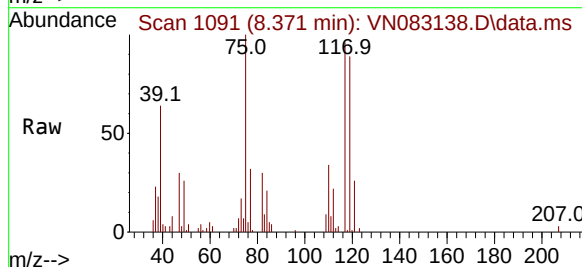
RT: 8.371 min Scan# 1091

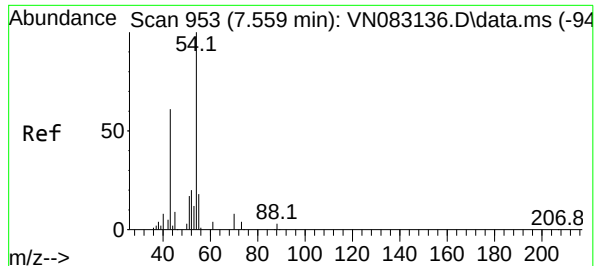
Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Tgt Ion:	75	Resp:	31681
Ion	Ratio	Lower	Upper
75	100		
110	33.9	16.3	48.9
77	31.1	24.6	37.0





#37

Ethyl Acetate

Concen: 9.685 ug/l

RT: 7.565 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

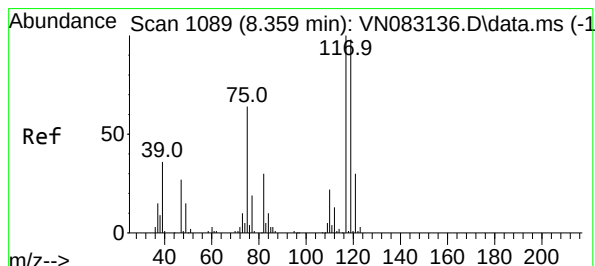
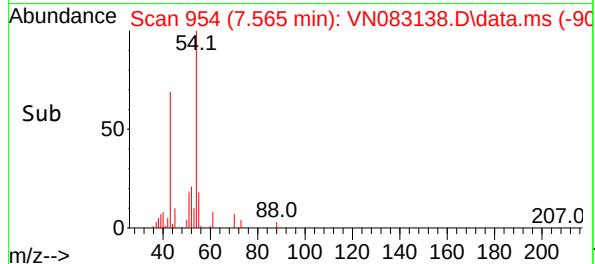
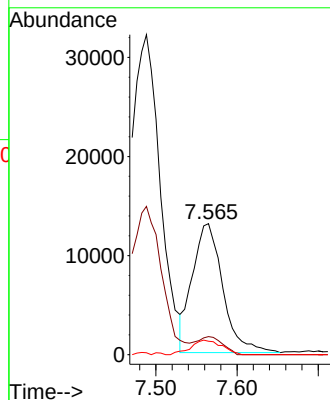
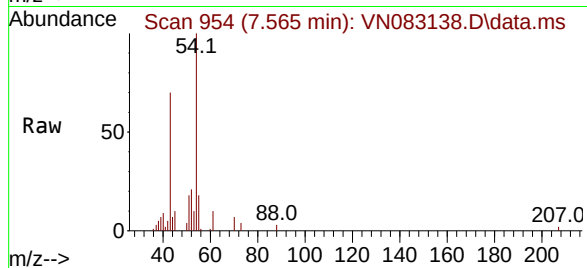
Tgt Ion:	43	Resp:	3400
Ion	Ratio	Lower	Upper
43	100		
61	12.0	9.3	13.9
70	11.4	7.0	10.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#38

Carbon Tetrachloride

Concen: 10.179 ug/l

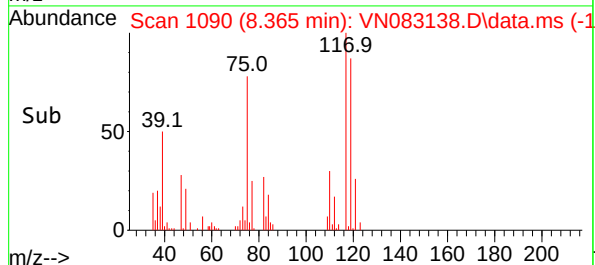
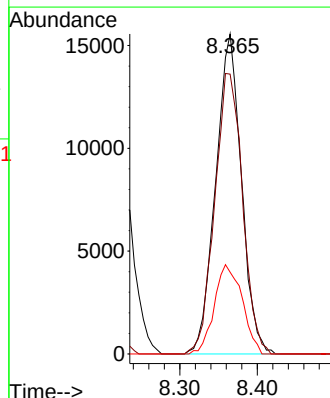
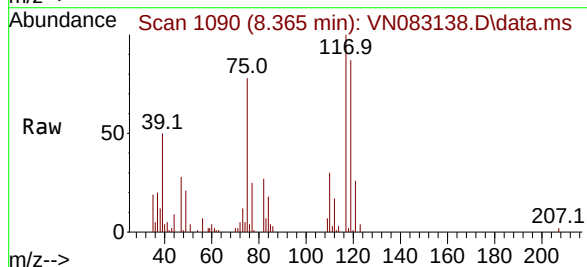
RT: 8.365 min Scan# 1090

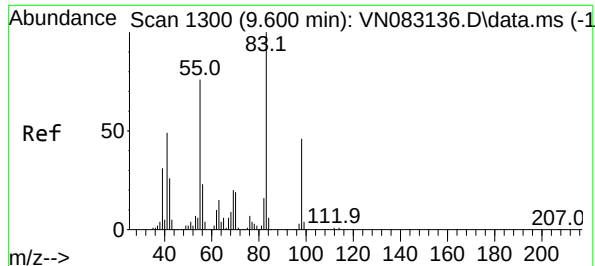
Delta R.T. 0.006 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Tgt Ion:	117	Resp:	35950
Ion	Ratio	Lower	Upper
117	100		
119	87.5	74.9	112.3
121	25.6	24.3	36.5





#39

Methylcyclohexane

Concen: 10.058 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

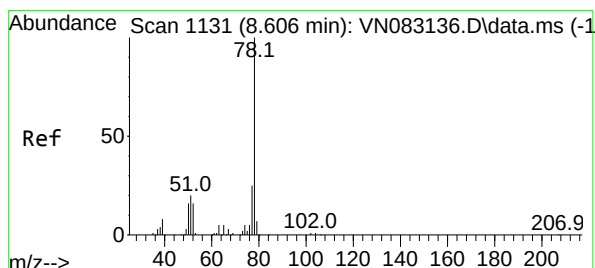
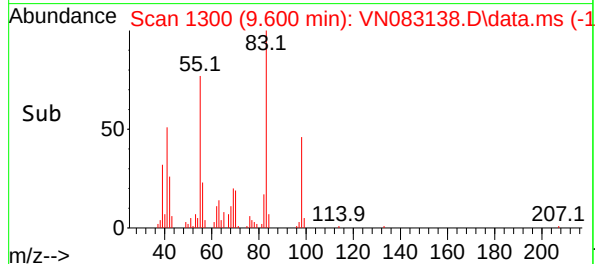
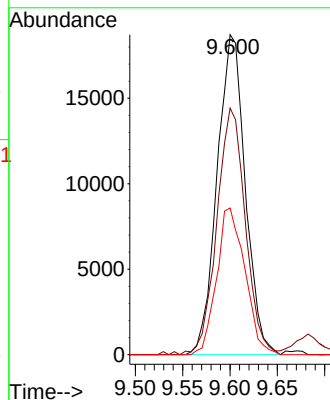
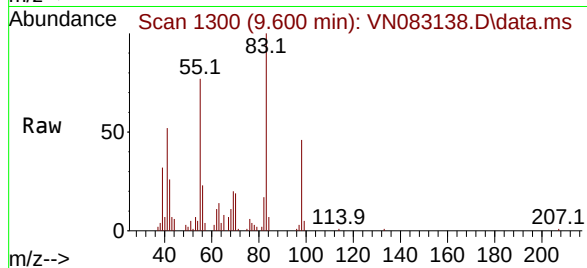
Tgt Ion	83	Resp	38738
Ion	Ratio	Lower	Upper
83	100		
55	77.1	66.4	99.6
98	45.9	40.7	61.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#40

Benzene

Concen: 10.157 ug/l

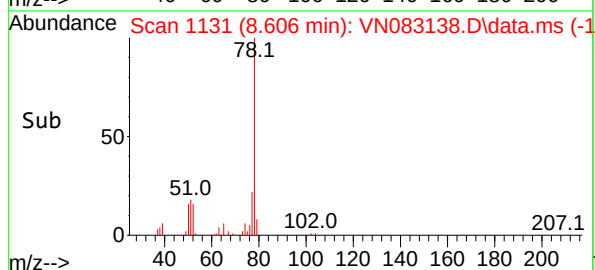
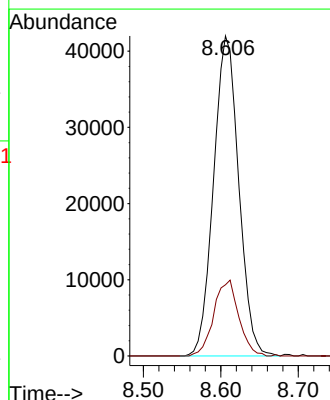
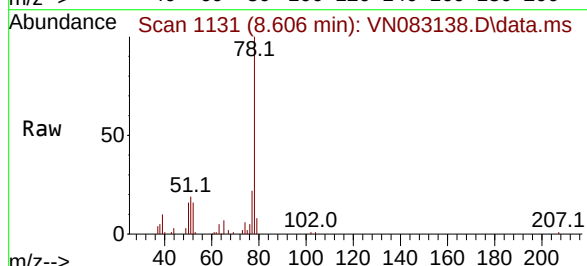
RT: 8.606 min Scan# 1131

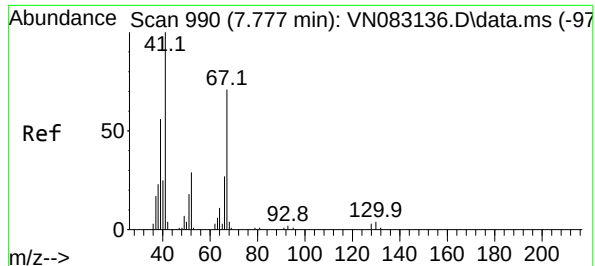
Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

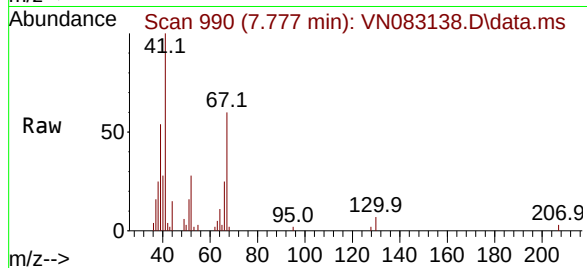
Tgt Ion	78	Resp	94885
Ion	Ratio	Lower	Upper
78	100		
77	22.2	19.0	28.4





#41
Methacrylonitrile
Concen: 9.213 ug/l
RT: 7.777 min Scan# 990
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

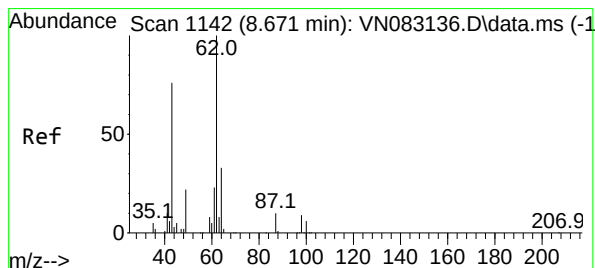
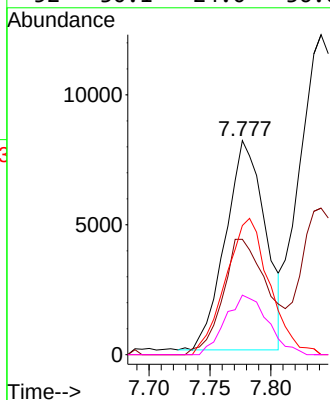
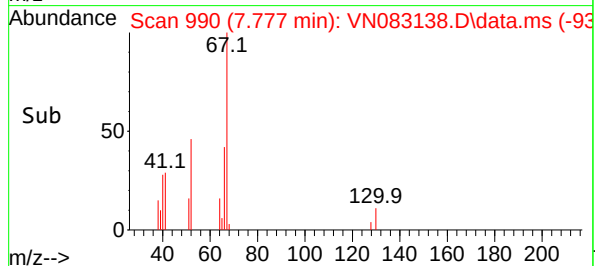
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010



Tgt Ion: 41 Resp: 18392
Ion Ratio Lower Upper
41 100
39 62.6 45.5 68.3
67 71.3 50.5 75.7
52 30.1 24.0 36.0

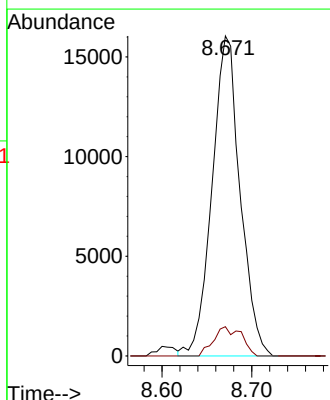
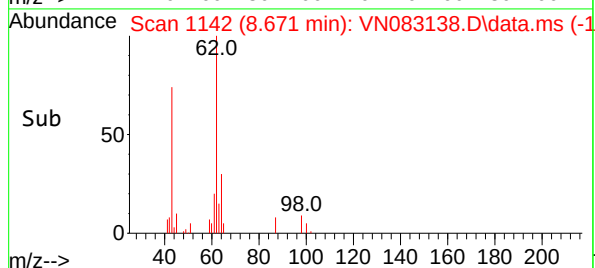
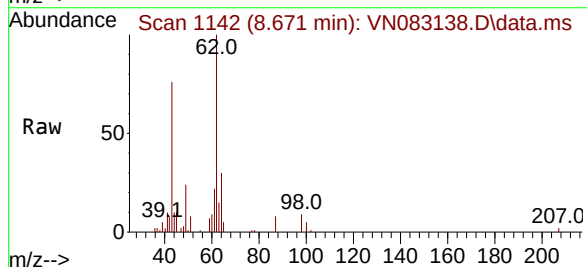
Manual Integrations
APPROVED

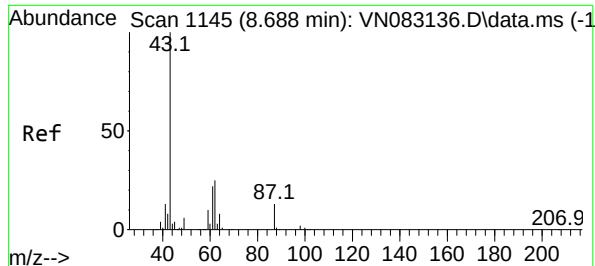
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#42
1,2-Dichloroethane
Concen: 10.234 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 62 Resp: 34826
Ion Ratio Lower Upper
62 100
98 9.1 0.0 15.8





#43

Isopropyl Acetate

Concen: 10.170 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.006 min

Lab File: VN083138.D

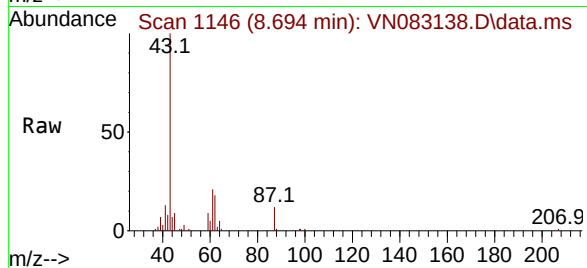
Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010



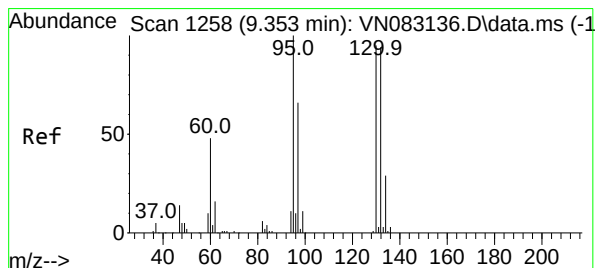
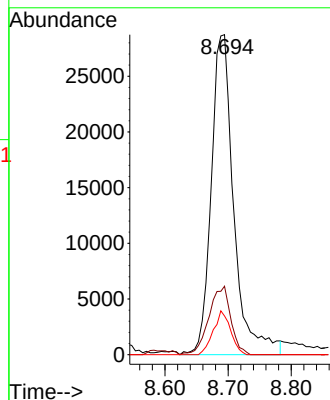
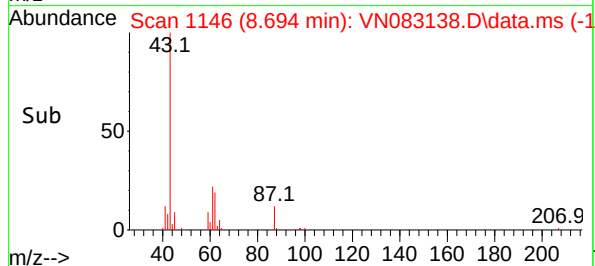
Tgt Ion:	43	Resp:	71420
Ion Ratio	100	Lower	Upper
43	100		
61	20.7	17.8	26.6
87	10.4	8.2	12.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#44

Trichloroethene

Concen: 10.195 ug/l

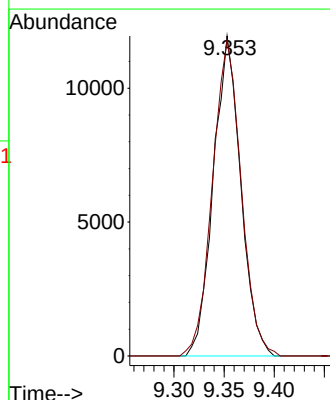
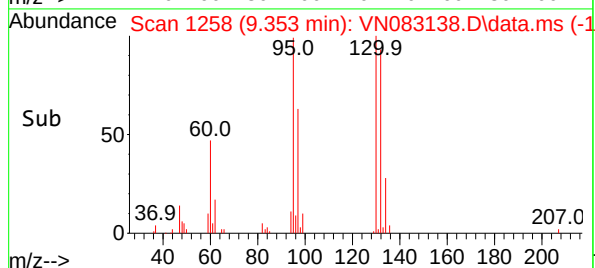
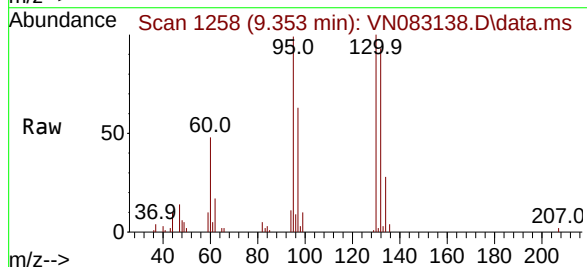
RT: 9.353 min Scan# 1258

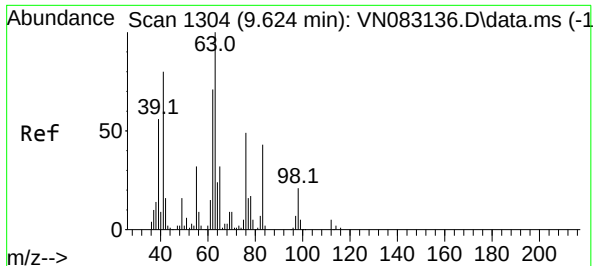
Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Tgt Ion:	130	Resp:	22669
Ion Ratio	100	Lower	Upper
130	100		
95	98.5	0.0	197.8





#45

1,2-Dichloropropane

Concen: 10.211 ug/l

RT: 9.624 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 63 Resp: 2264

Ion Ratio Lower Upper

63 100

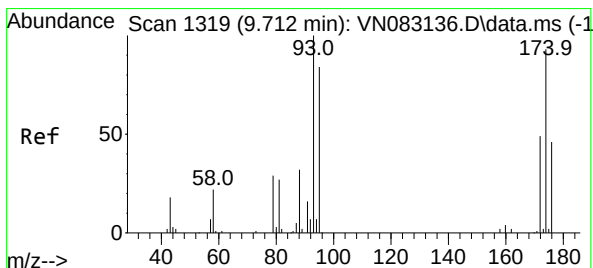
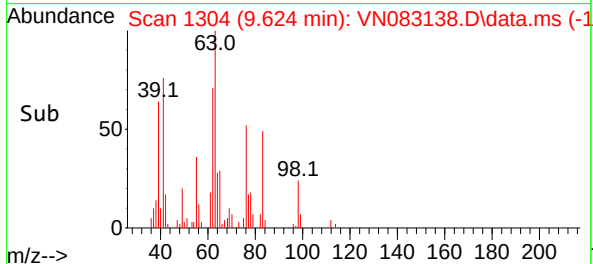
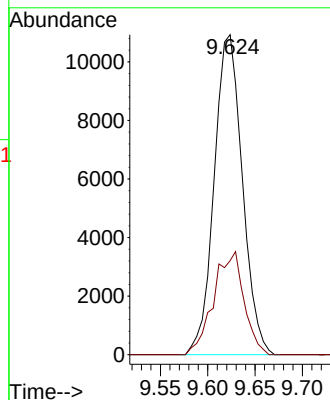
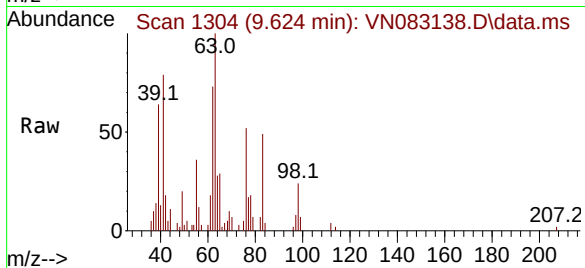
65 29.4 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#46

Dibromomethane

Concen: 10.041 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.006 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

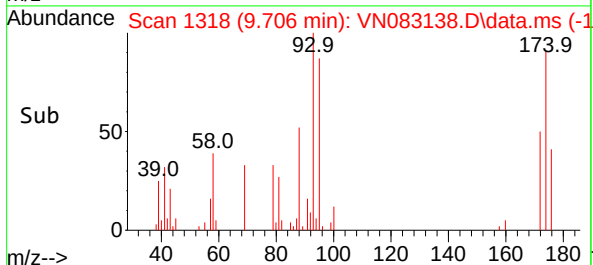
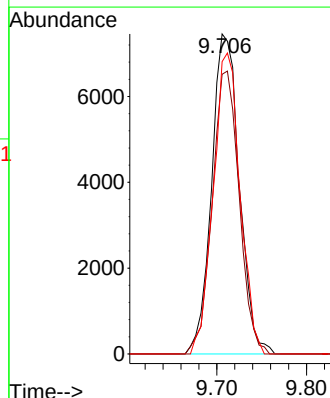
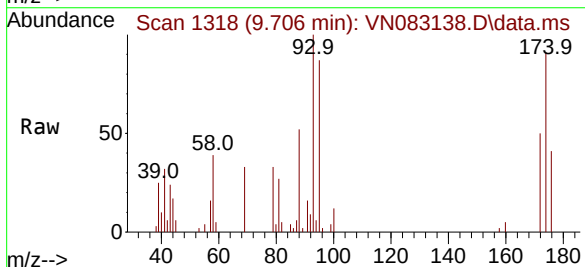
Tgt Ion: 93 Resp: 15937

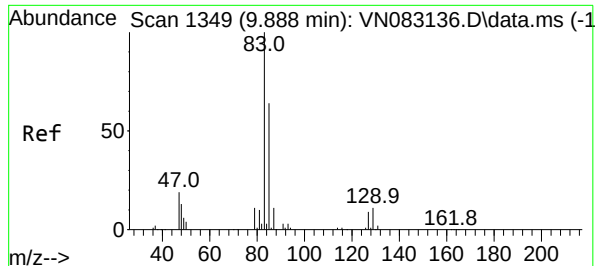
Ion Ratio Lower Upper

93 100

95 86.3 65.8 98.6

174 91.4 71.7 107.5





#47

Bromodichloromethane

Concen: 9.930 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

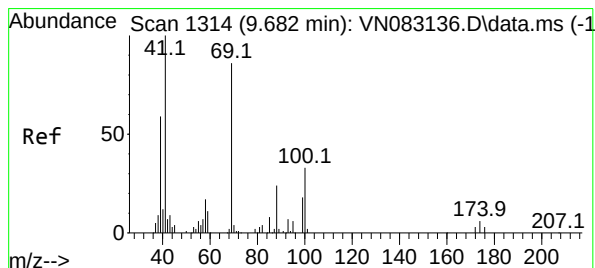
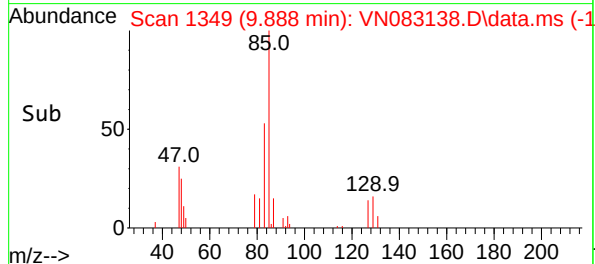
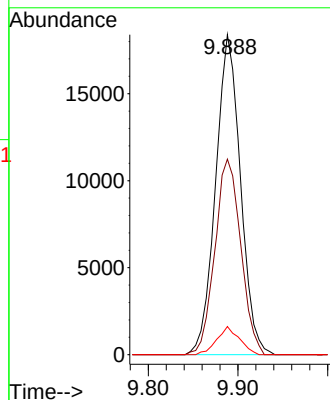
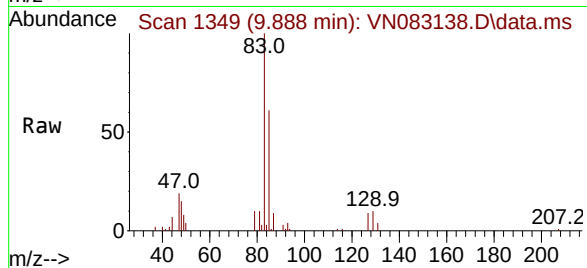
Tgt Ion:	83	Resp:	3538
Ion	Ratio	Lower	Upper
83	100		
85	61.1	51.1	76.7
127	8.8	7.2	10.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#48

Methyl methacrylate

Concen: 9.891 ug/l

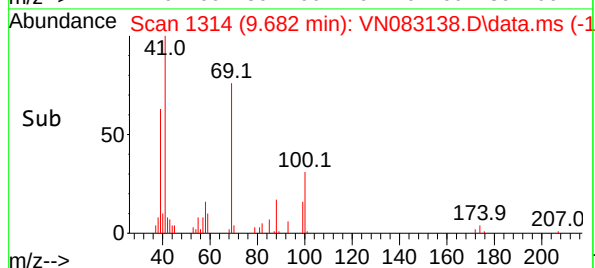
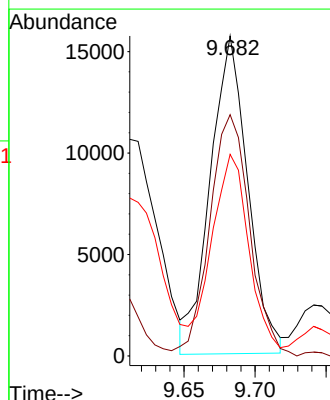
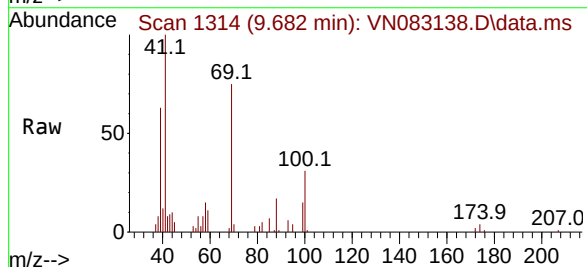
RT: 9.682 min Scan# 1314

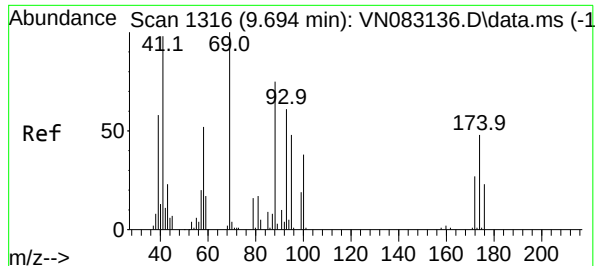
Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Tgt Ion:	41	Resp:	28711
Ion	Ratio	Lower	Upper
41	100		
69	81.0	56.3	84.5
39	63.6	50.3	75.5





#49

1,4-Dioxane

Concen: 201.364 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 88 Resp: 10549

Ion Ratio Lower Upper

88 100

43 39.2 27.8 41.8

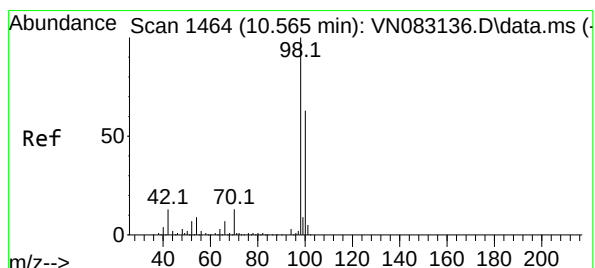
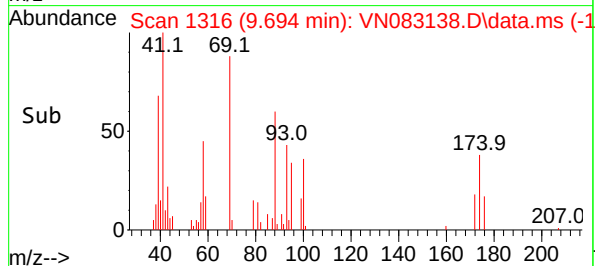
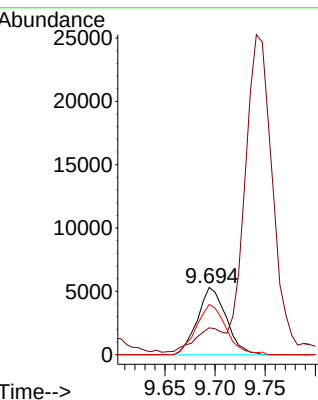
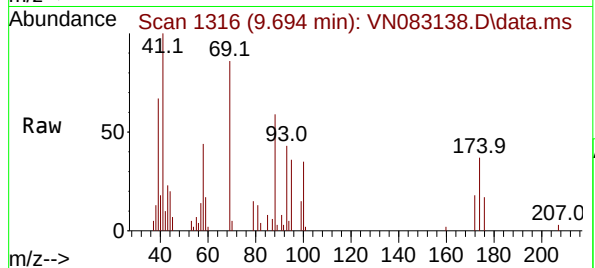
58 77.8 59.4 89.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#50

Toluene-d8

Concen: 9.733 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN083138.D

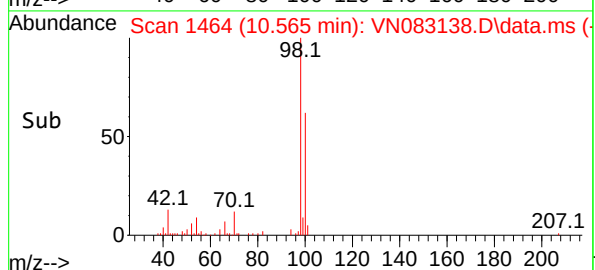
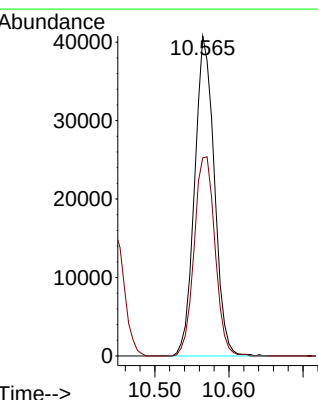
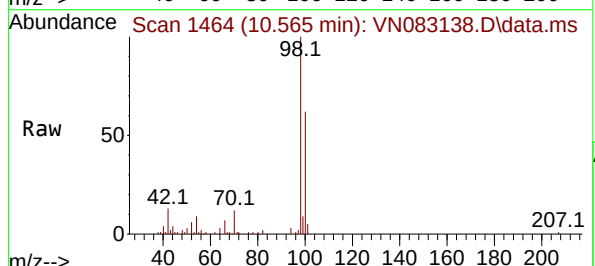
Acq: 07 Aug 2024 11:46

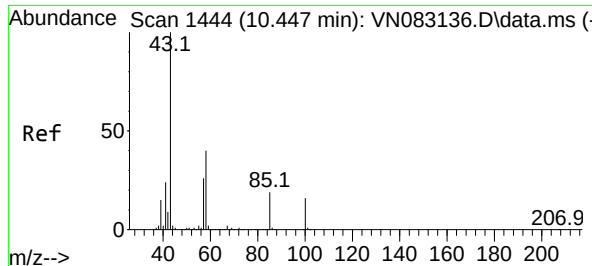
Tgt Ion: 98 Resp: 75261

Ion Ratio Lower Upper

98 100

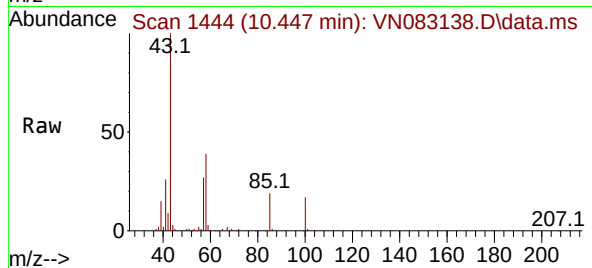
100 66.0 51.5 77.3





#51
4-Methyl-2-Pentanone
Concen: 51.587 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

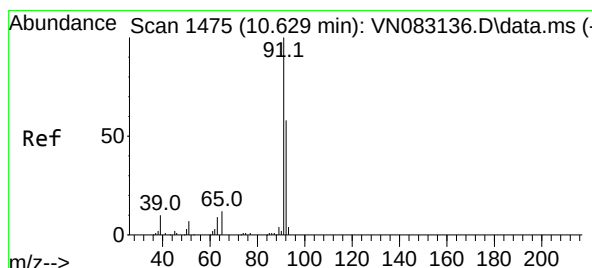
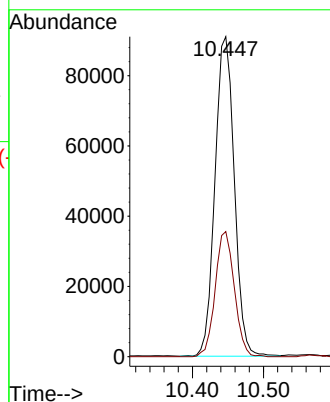
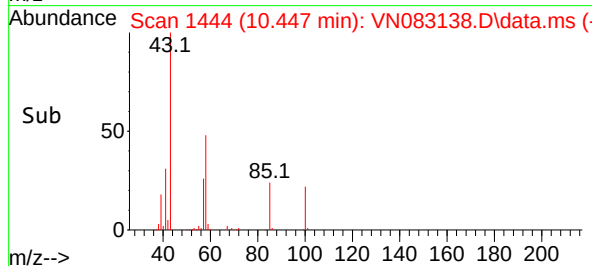
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion: 43 Resp: 17127
Ion Ratio Lower Upper
43 100
58 38.8 28.2 42.4

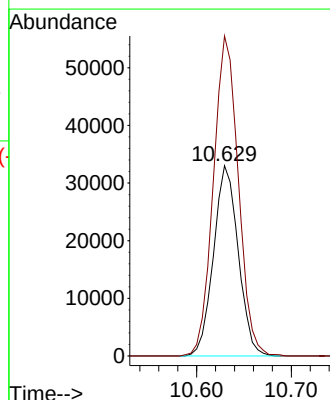
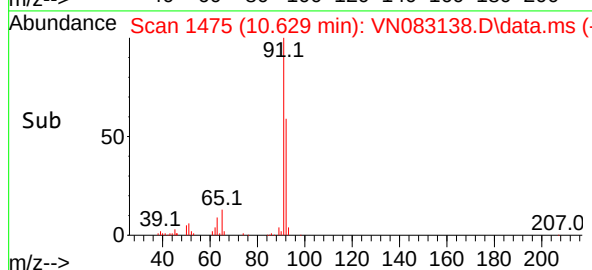
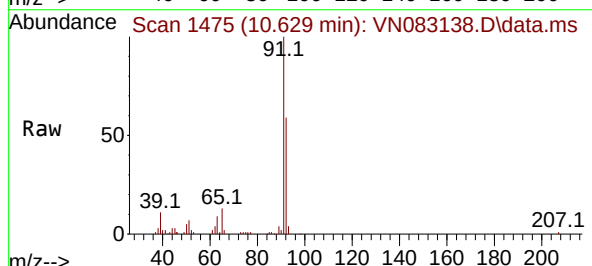
Manual Integrations
APPROVED

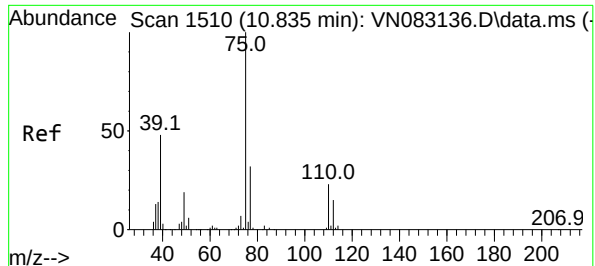
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#52
Toluene
Concen: 10.129 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

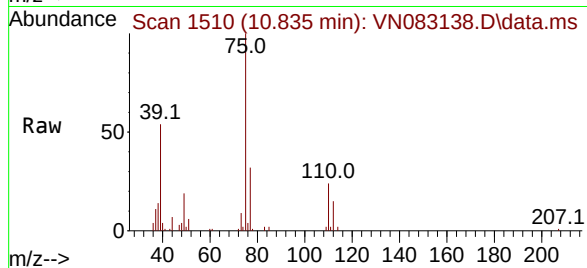
Tgt Ion: 92 Resp: 59784
Ion Ratio Lower Upper
92 100
91 170.0 139.4 209.0





#53
t-1,3-Dichloropropene
Concen: 10.017 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

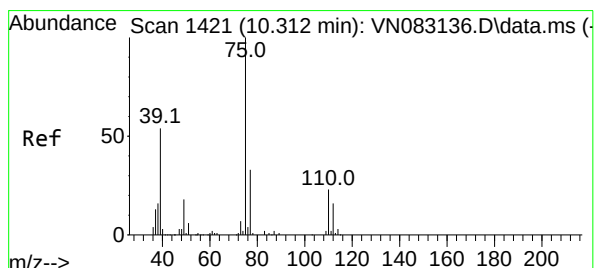
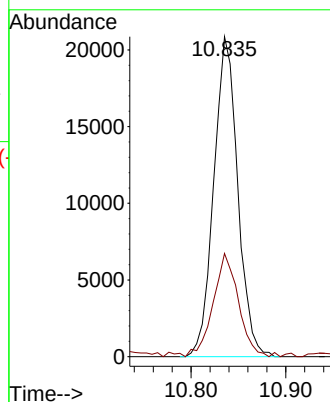
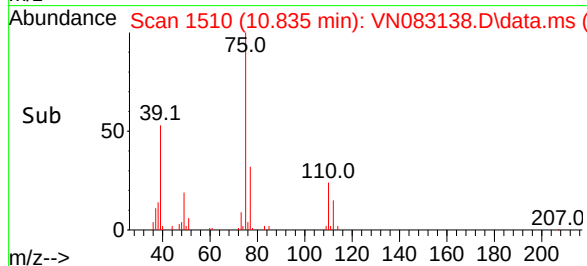
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010



Tgt Ion: 75 Resp: 36670
Ion Ratio Lower Upper
75 100
77 32.2 25.7 38.5

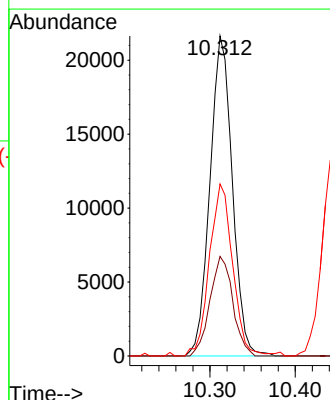
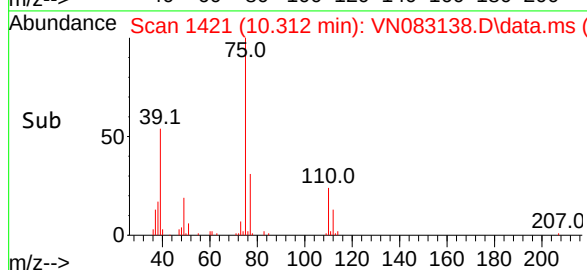
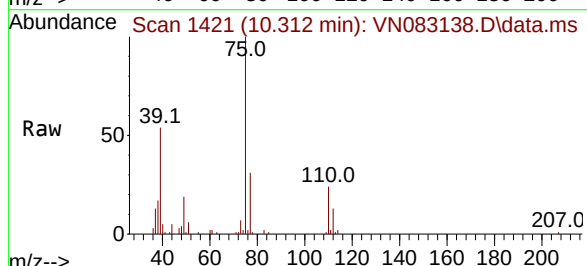
Manual Integrations
APPROVED

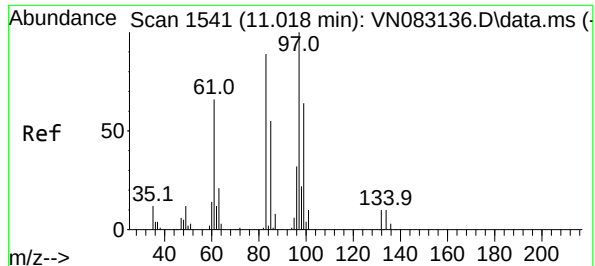
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#54
cis-1,3-Dichloropropene
Concen: 10.145 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 75 Resp: 39503
Ion Ratio Lower Upper
75 100
77 31.1 24.3 36.5
39 53.8 50.5 75.7





#55

1,1,2-Trichloroethane

Concen: 10.274 ug/l

RT: 11.018 min Scan# 1541

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 97 Resp: 2173

Ion Ratio Lower Upper

97 100

83 84.0 71.4 107.0

85 54.3 45.8 68.6

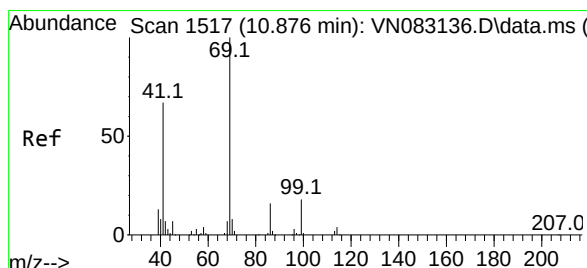
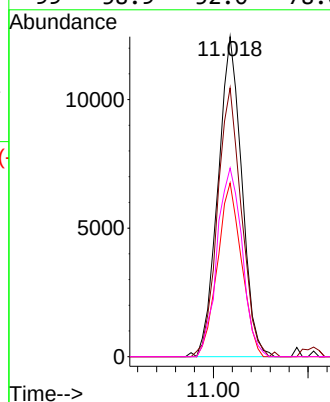
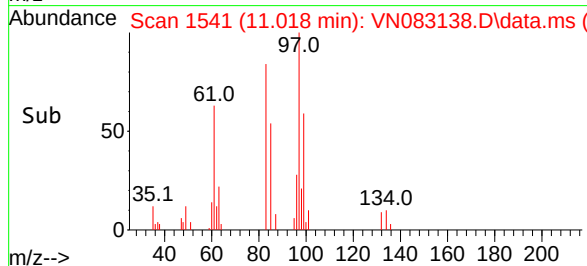
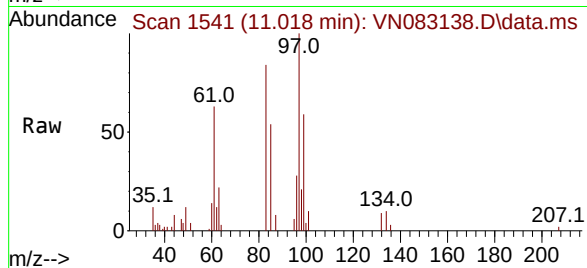
99 58.9 52.0 78.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#56

Ethyl methacrylate

Concen: 10.201 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.006 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

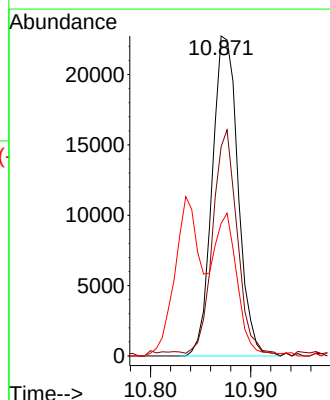
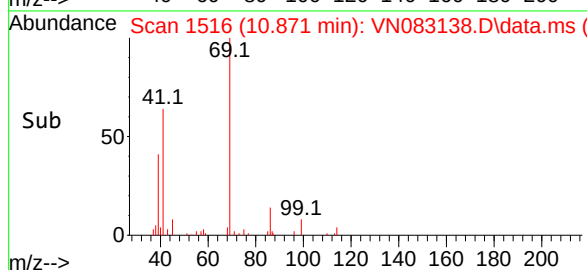
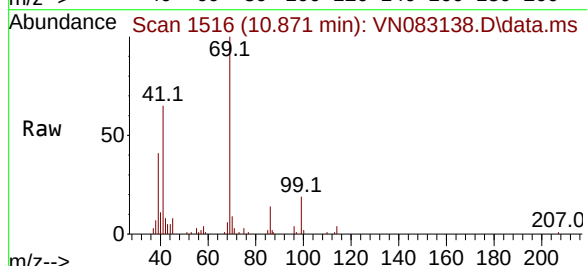
Tgt Ion: 69 Resp: 40676

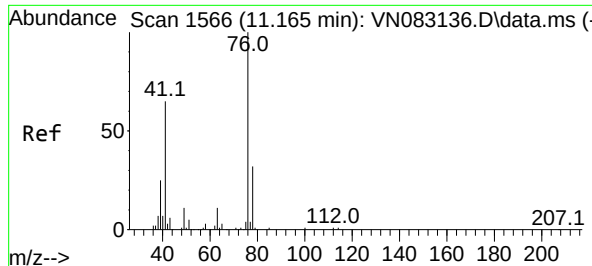
Ion Ratio Lower Upper

69 100

41 67.9 63.4 95.2

39 36.8 37.4 56.0#





#57

1,3-Dichloropropane

Concen: 10.132 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 76 Resp: 38200

Ion Ratio Lower Upper

76 100

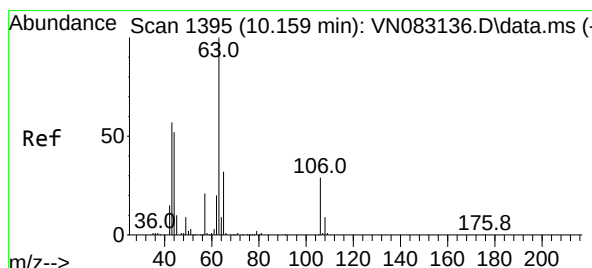
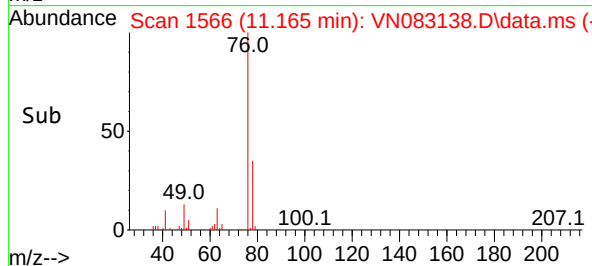
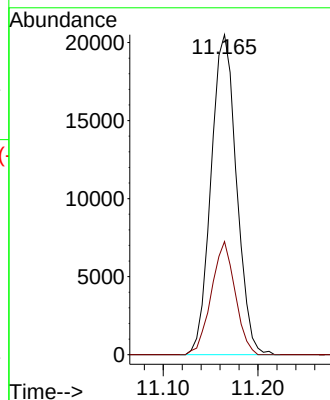
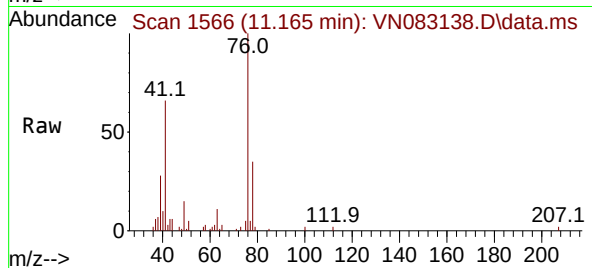
78 33.1 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#58

2-Chloroethyl Vinyl ether

Concen: 51.698 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN083138.D

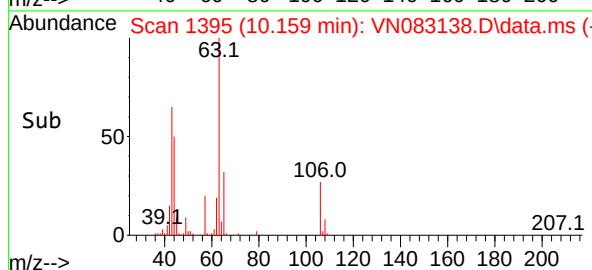
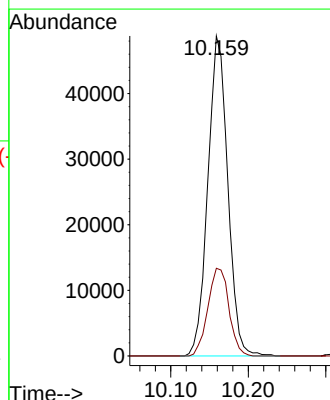
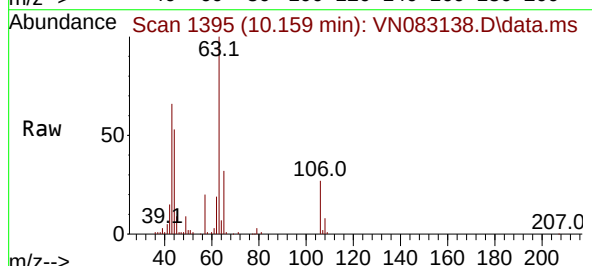
Acq: 07 Aug 2024 11:46

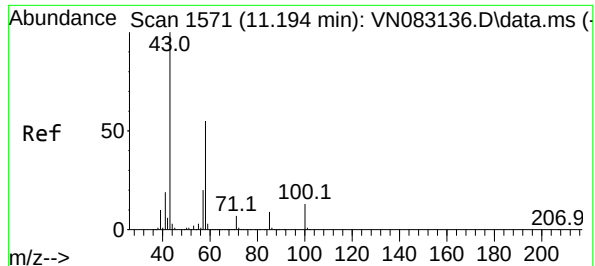
Tgt Ion: 63 Resp: 87140

Ion Ratio Lower Upper

63 100

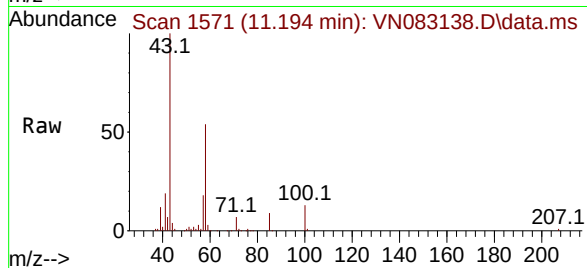
106 28.9 21.4 32.0





#59
2-Hexanone
Concen: 50.312 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

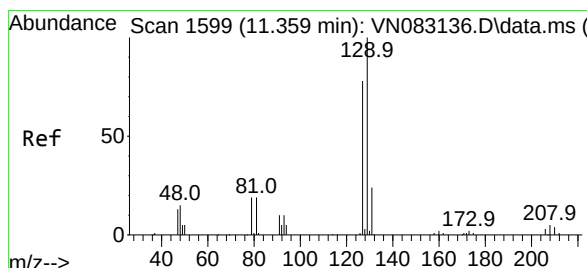
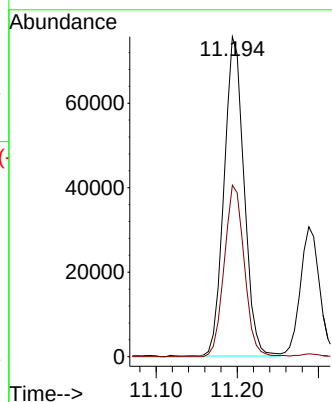
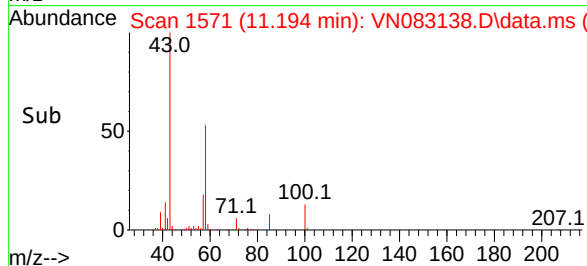
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion: 43 Resp: 12923
Ion Ratio Lower Upper
43 100
58 54.0 24.6 73.8

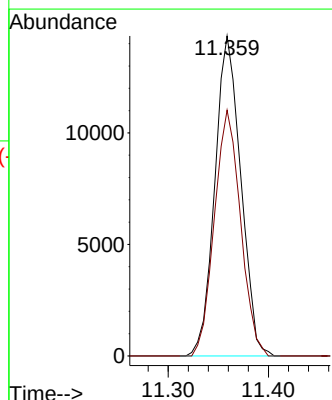
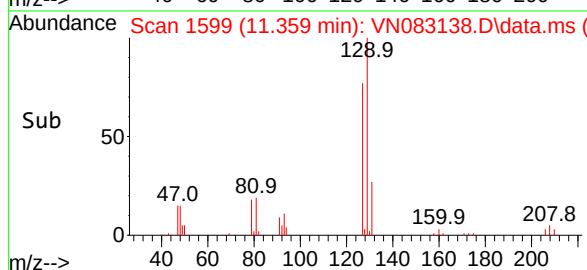
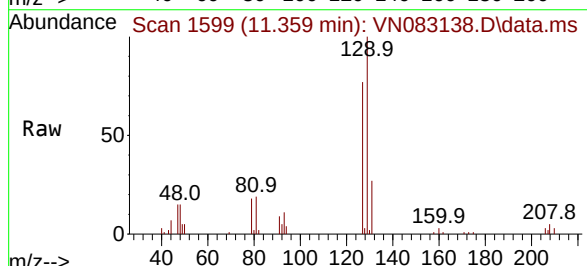
Manual Integrations
APPROVED

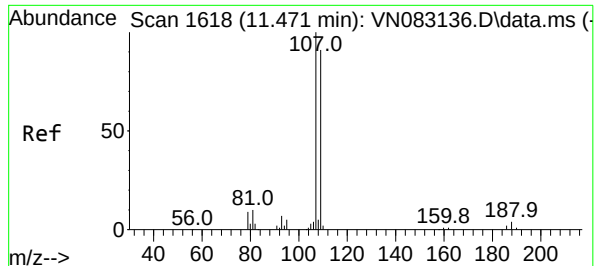
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#60
Dibromochloromethane
Concen: 10.088 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:129 Resp: 25798
Ion Ratio Lower Upper
129 100
127 77.5 39.2 117.6





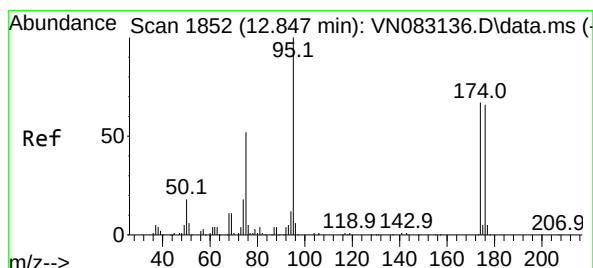
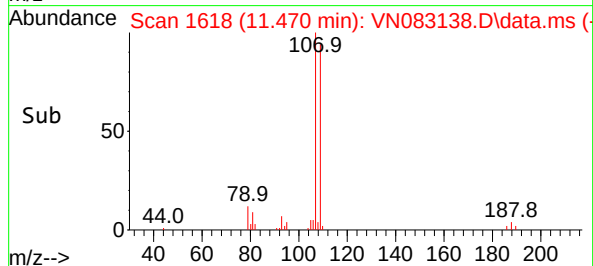
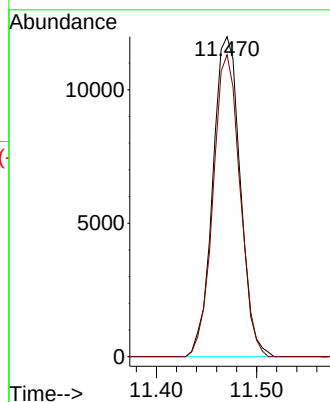
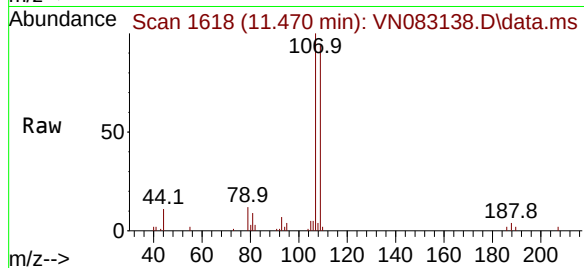
#61
1,2-Dibromoethane
Concen: 10.219 ug/l
RT: 11.470 min Scan# 1618
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

Tgt Ion:107 Resp: 2270
Ion Ratio Lower Upper
107 100
109 92.7 73.7 110.5

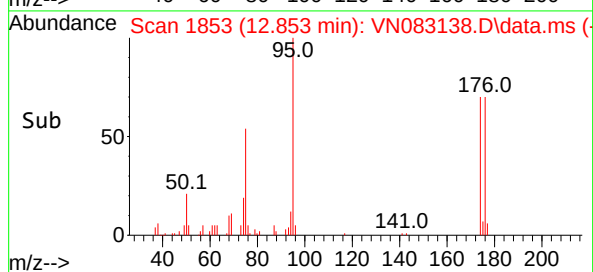
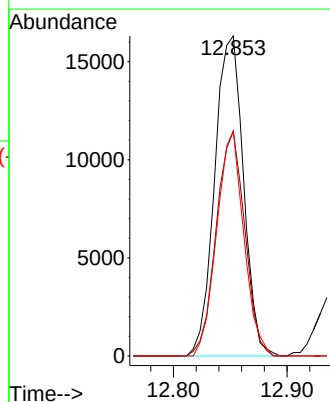
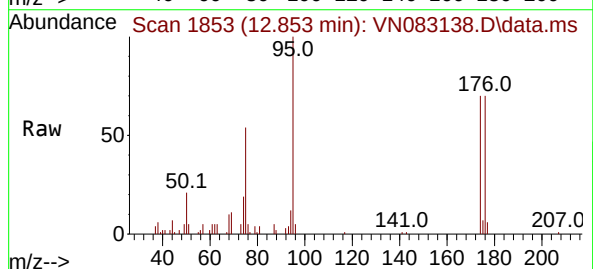
Manual Integrations
APPROVED

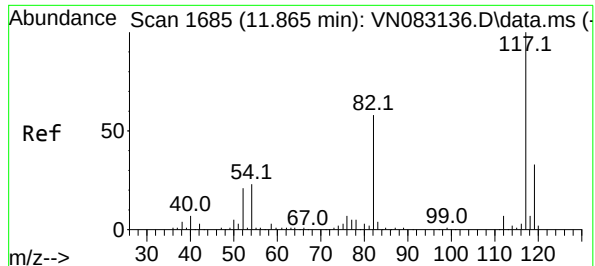
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#62
4-Bromofluorobenzene
Concen: 9.517 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 95 Resp: 28691
Ion Ratio Lower Upper
95 100
174 69.5 0.0 159.2
176 66.2 0.0 147.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion:117 Resp: 279409

Ion Ratio Lower Upper

117 100

82 60.2 47.5 71.3

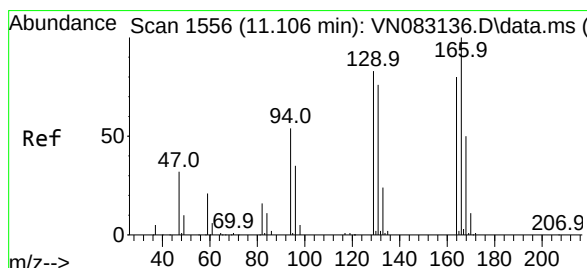
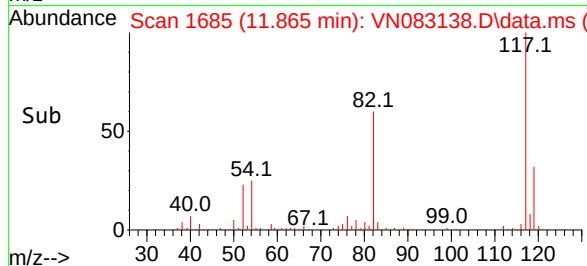
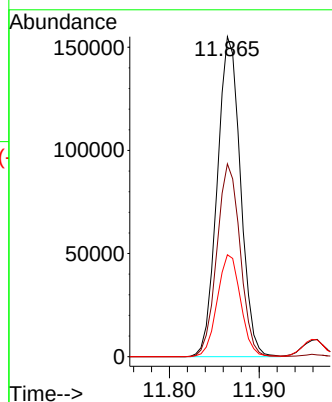
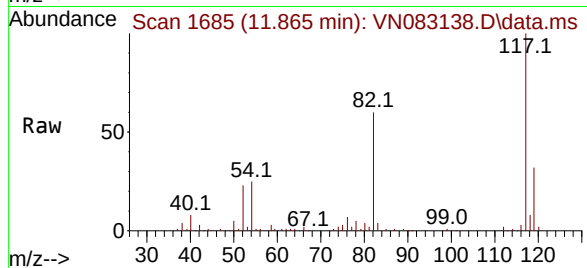
119 31.9 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#64

Tetrachloroethene

Concen: 10.362 ug/l

RT: 11.106 min Scan# 1556

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Tgt Ion:164 Resp: 19174

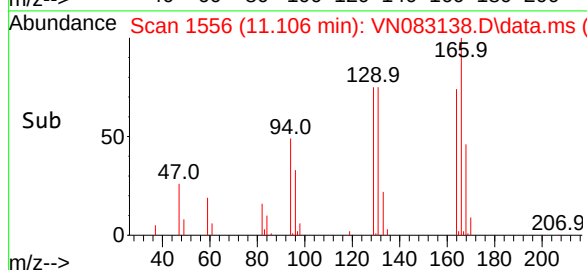
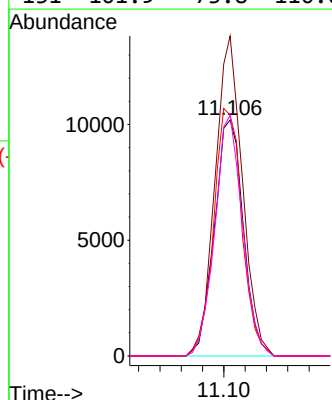
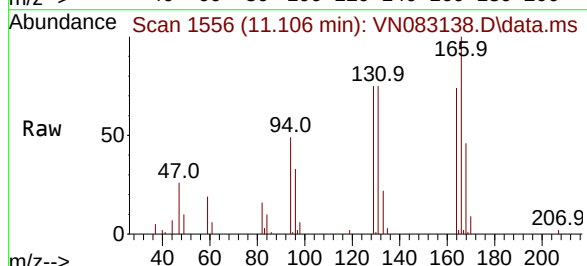
Ion Ratio Lower Upper

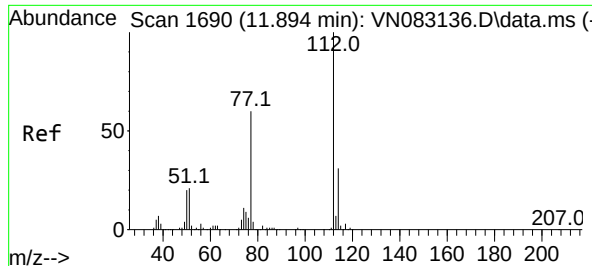
164 100

166 135.5 101.4 152.0

129 102.0 75.7 113.5

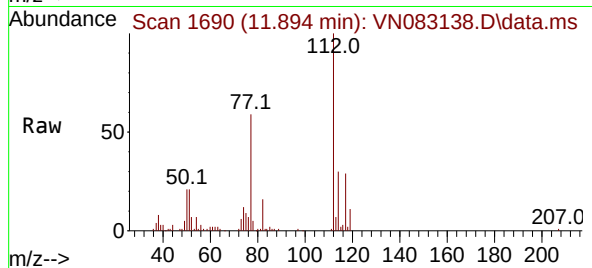
131 101.9 73.8 110.6





#65
Chlorobenzene
Concen: 10.437 ug/l
RT: 11.894 min Scan# 1690
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

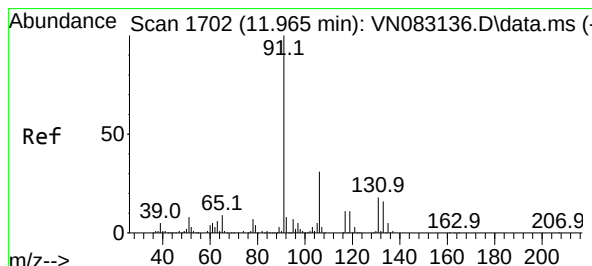
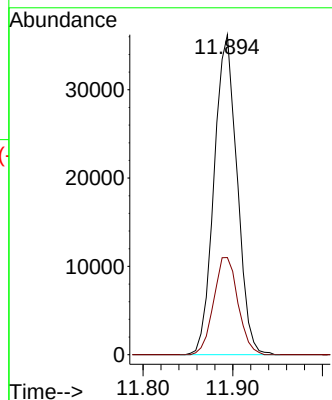
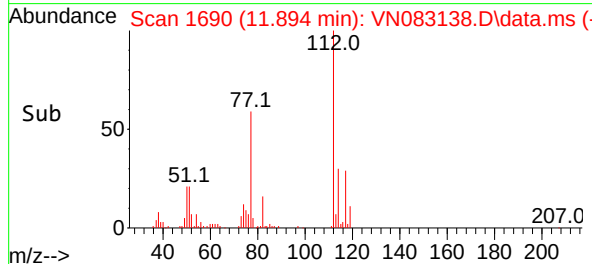
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010



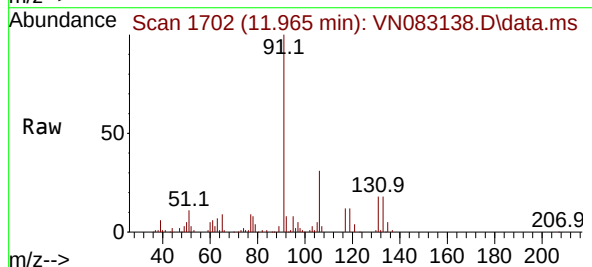
Tgt Ion:112 Resp: 64445
Ion Ratio Lower Upper
112 100
114 30.4 26.2 39.2

Manual Integrations
APPROVED

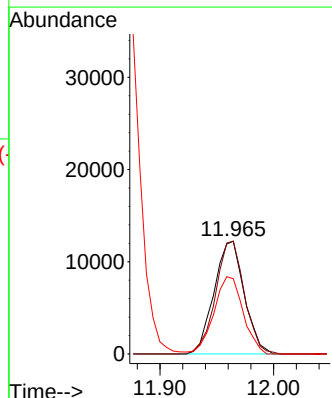
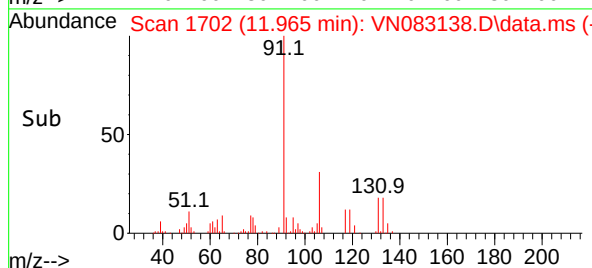
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

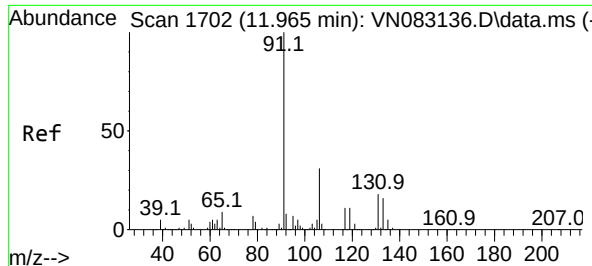


#66
1,1,1,2-Tetrachloroethane
Concen: 10.331 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46



Tgt Ion:131 Resp: 22498
Ion Ratio Lower Upper
131 100
133 95.7 47.3 142.0
119 66.5 32.5 97.4





#67

Ethyl Benzene

Concen: 10.211 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 91 Resp: 115664

Ion Ratio Lower Upper

91 100

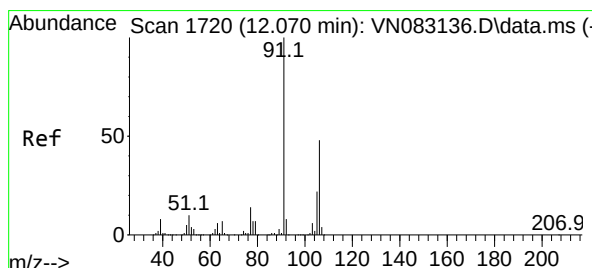
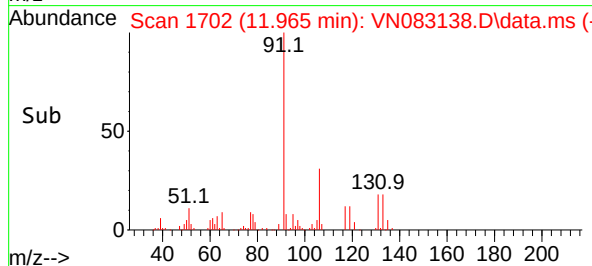
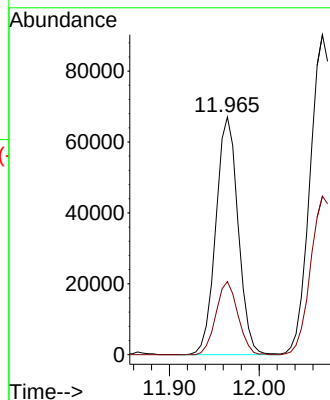
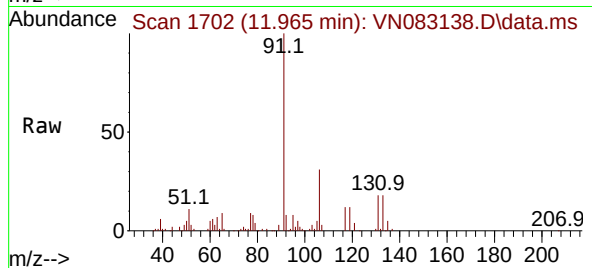
106 30.7 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#68

m/p-Xylenes

Concen: 20.687 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN083138.D

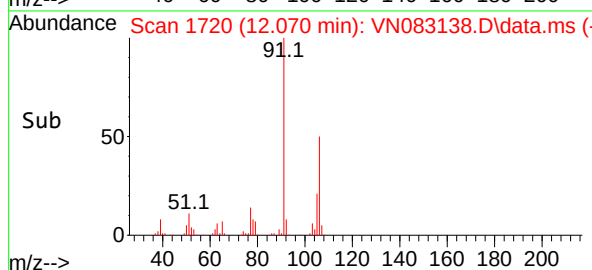
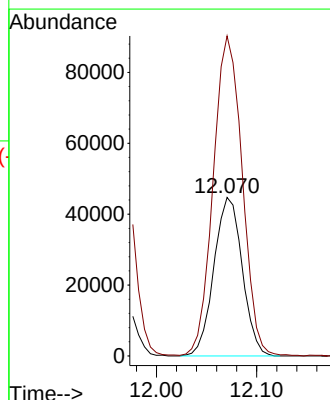
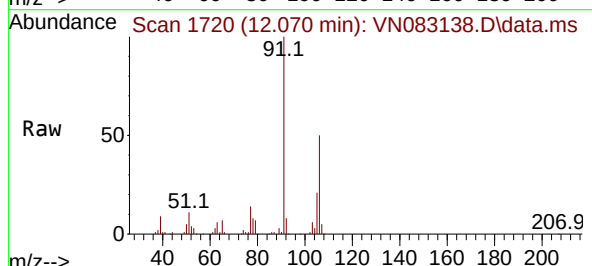
Acq: 07 Aug 2024 11:46

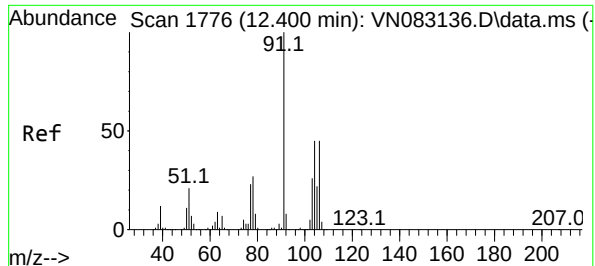
Tgt Ion:106 Resp: 87775

Ion Ratio Lower Upper

106 100

91 206.9 166.1 249.1





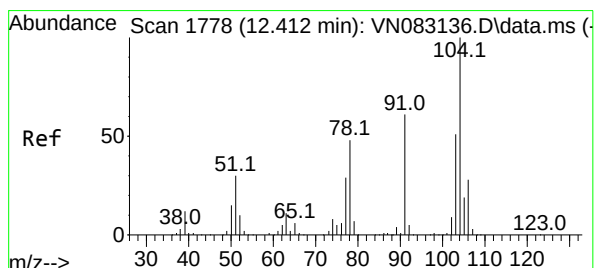
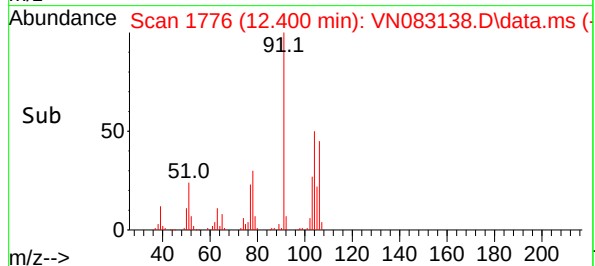
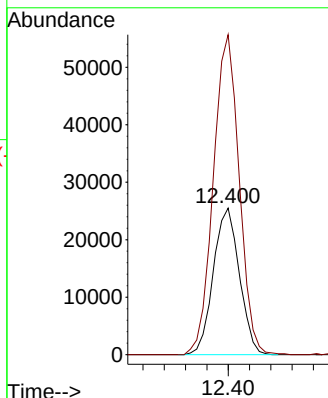
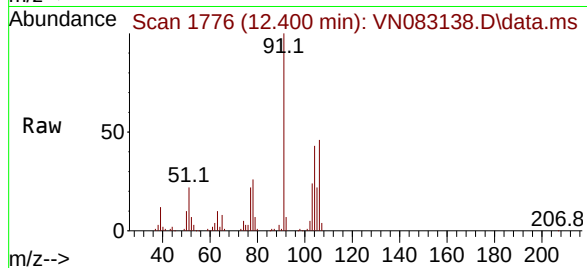
#69
o-Xylene
Concen: 10.327 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

Tgt Ion:106 Resp: 43210
Ion Ratio Lower Upper
106 100
91 217.0 111.3 333.9

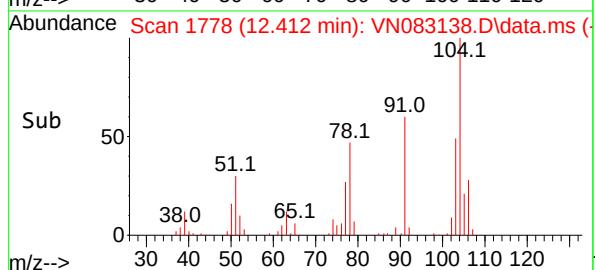
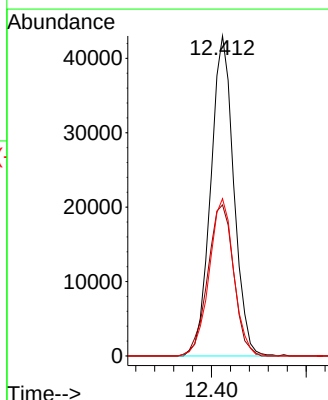
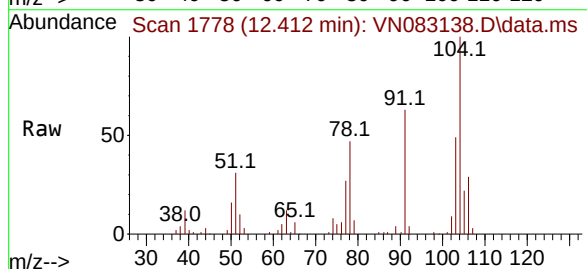
Manual Integrations
APPROVED

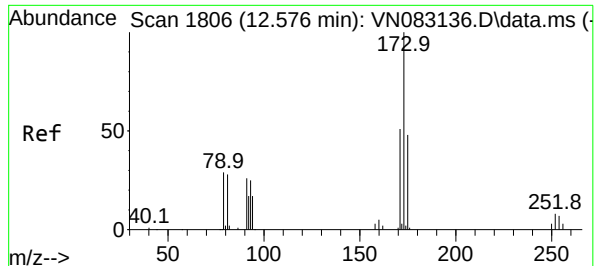
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#70
Styrene
Concen: 10.335 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

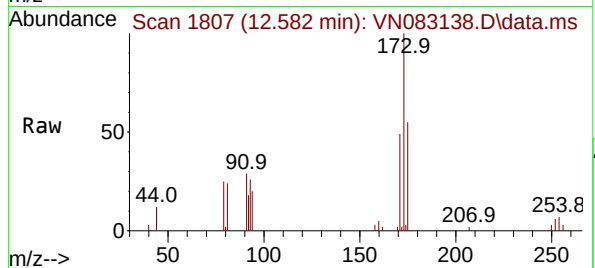
Tgt Ion:104 Resp: 72641
Ion Ratio Lower Upper
104 100
78 53.1 41.6 62.4
103 52.2 44.0 66.0





#71
Bromoform
Concen: 9.893 ug/l
RT: 12.582 min Scan# 1806
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

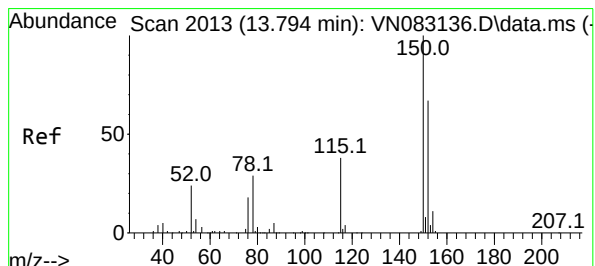
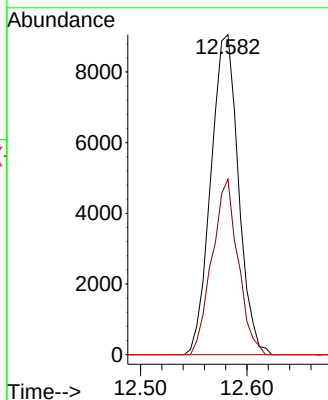
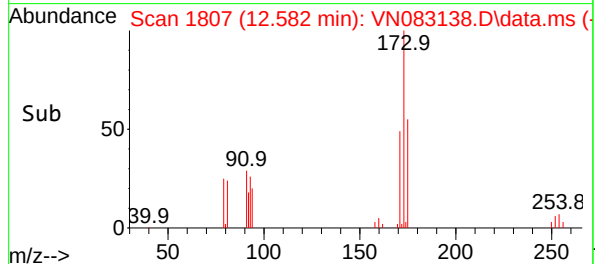
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010



Tgt Ion:173 Resp: 16320
Ion Ratio Lower Upper
173 100
175 51.7 24.0 72.0
254 0.0 0.0 0.0

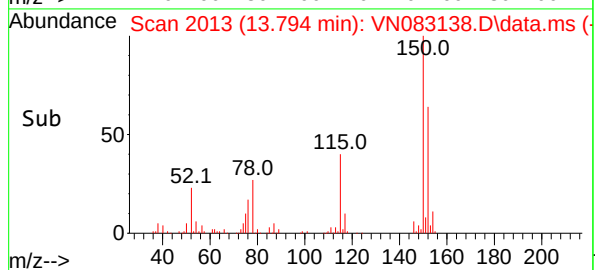
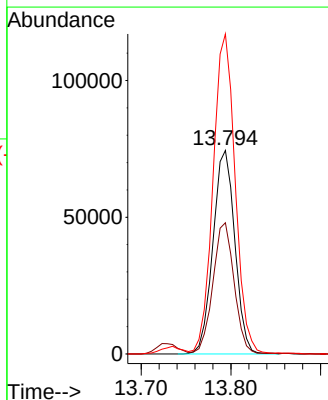
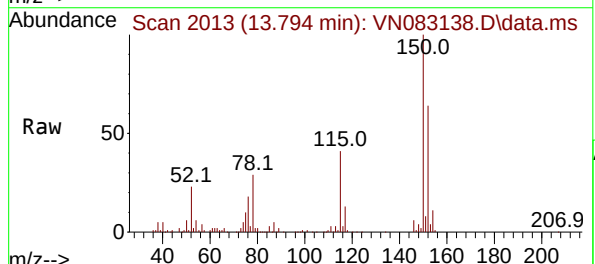
Manual Integrations
APPROVED

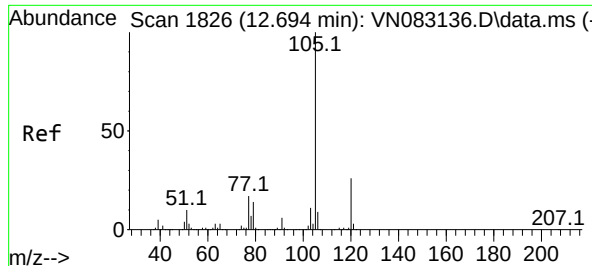
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

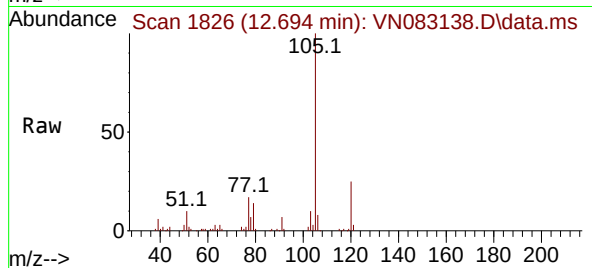
Tgt Ion:152 Resp: 125725
Ion Ratio Lower Upper
152 100
115 62.4 30.6 91.6
150 158.1 0.0 348.6





#73
Isopropylbenzene
Concen: 10.487 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

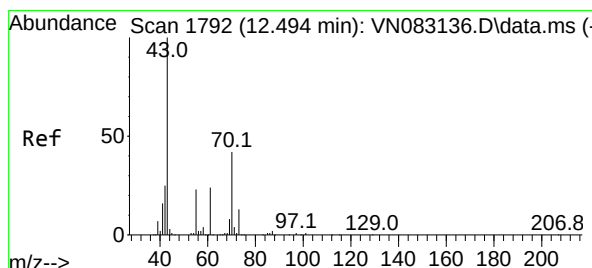
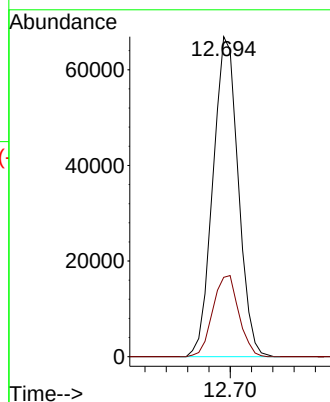
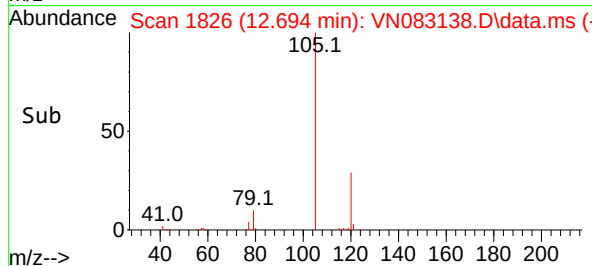
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010



Tgt Ion: 105 Resp: 11027
Ion Ratio Lower Upper
105 100
120 26.0 12.9 38.6

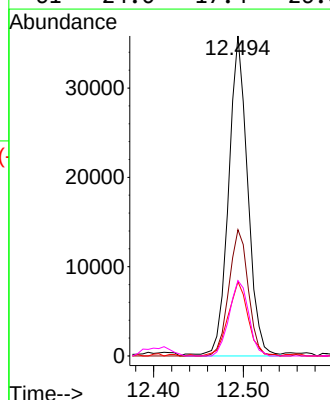
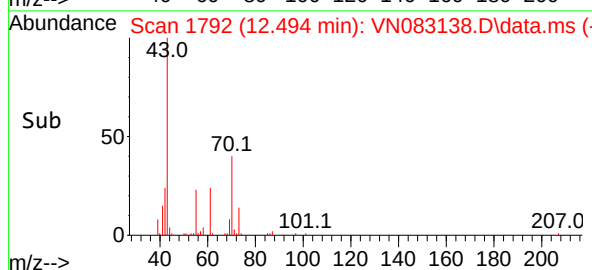
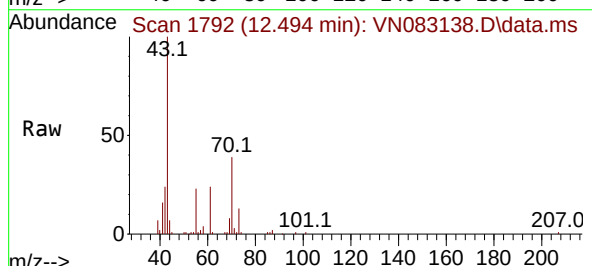
Manual Integrations
APPROVED

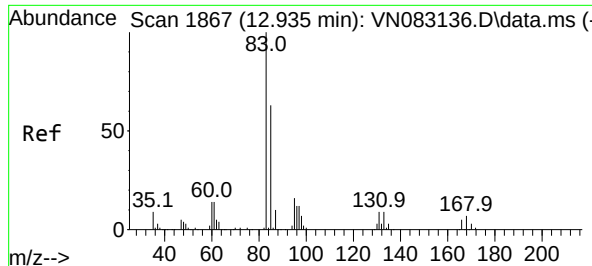
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#74
N-ethyl acetate
Concen: 10.303 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

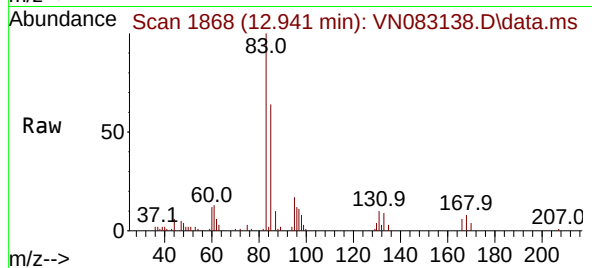
Tgt Ion: 43 Resp: 52998
Ion Ratio Lower Upper
43 100
70 39.8 29.8 44.6
55 24.3 18.7 28.1
61 24.0 17.4 26.0





#75
1,1,2,2-Tetrachloroethane
Concen: 10.234 ug/l
RT: 12.941 min Scan# 1868
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

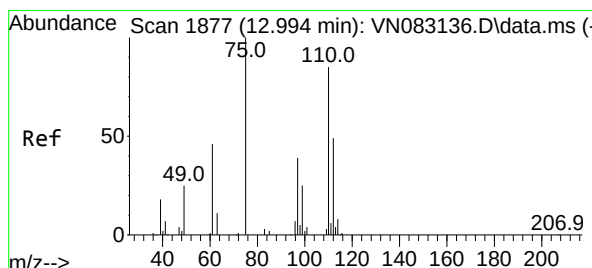
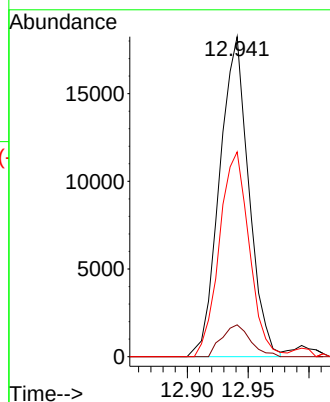
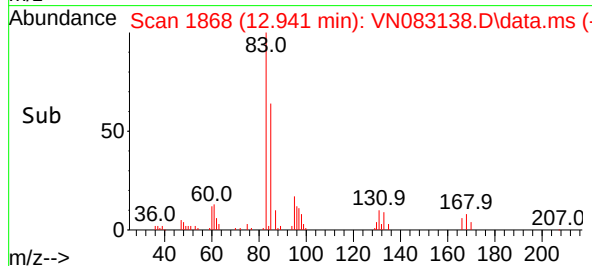
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion: 83 Resp: 30438
Ion Ratio Lower Upper
83 100
131 9.8 5.0 14.9
85 65.6 31.9 95.7

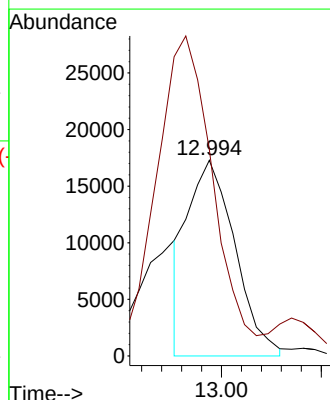
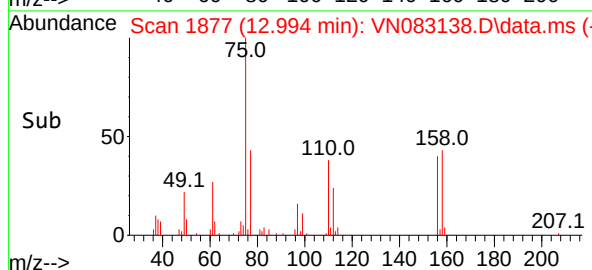
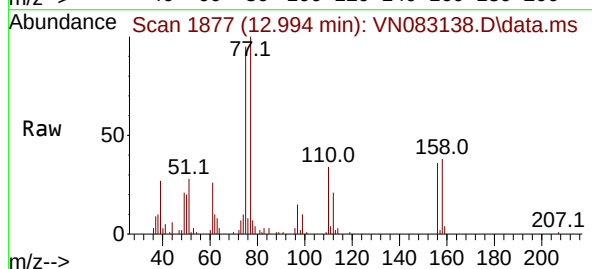
Manual Integrations
APPROVED

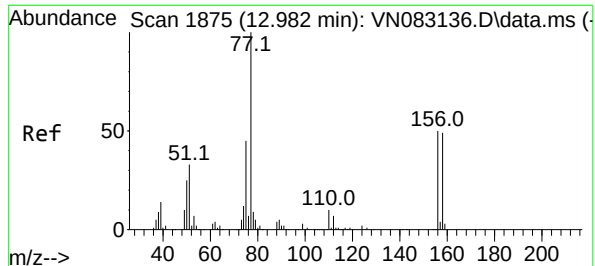
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#76
1,2,3-Trichloropropane
Concen: 10.261 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 75 Resp: 28359
Ion Ratio Lower Upper
75 100
77 197.9 110.9 332.6





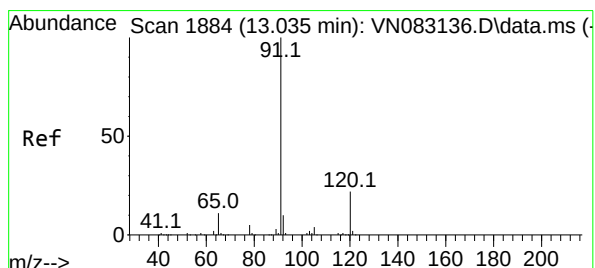
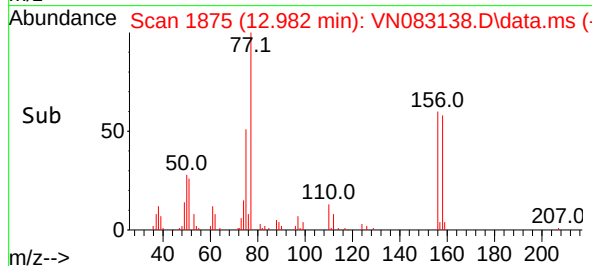
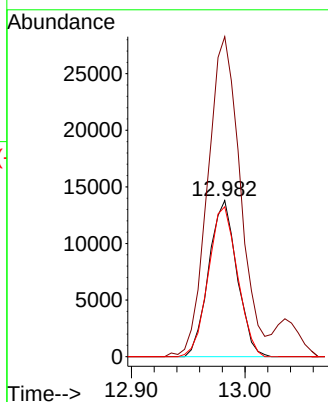
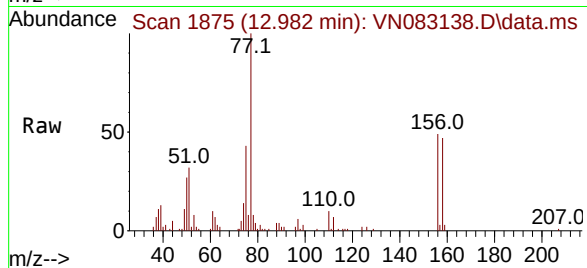
#77
Bromobenzene
Concen: 10.180 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

Tgt Ion:156 Resp: 2378
Ion Ratio Lower Upper
156 100
77 236.0 111.3 333.8
158 98.9 48.3 144.9

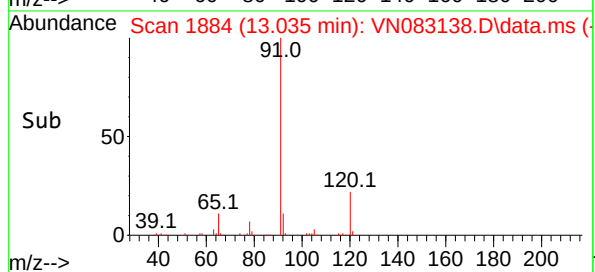
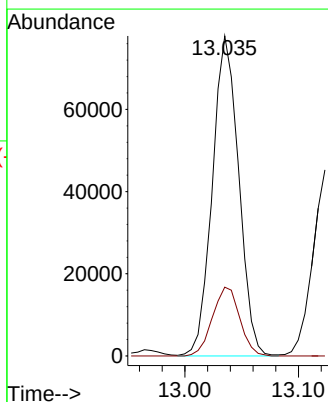
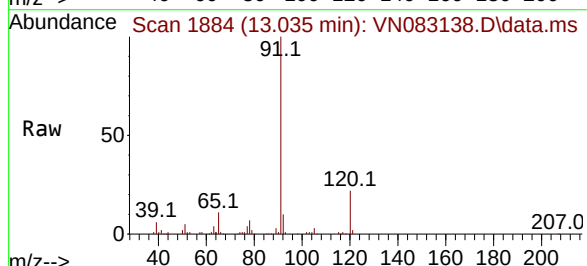
Manual Integrations
APPROVED

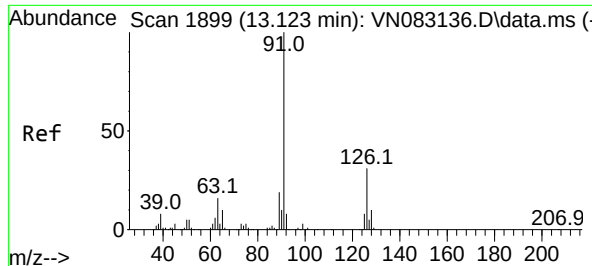
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#78
n-propylbenzene
Concen: 10.379 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 91 Resp: 125678
Ion Ratio Lower Upper
91 100
120 22.2 10.9 32.9





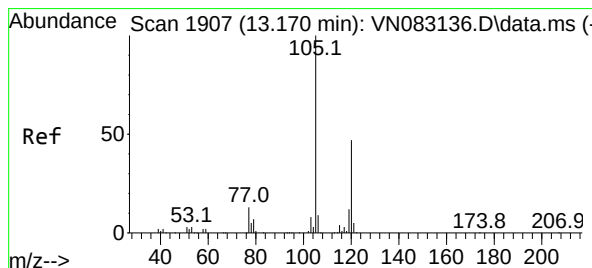
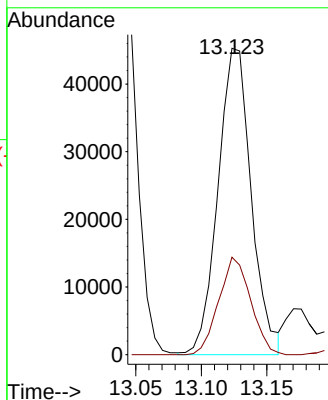
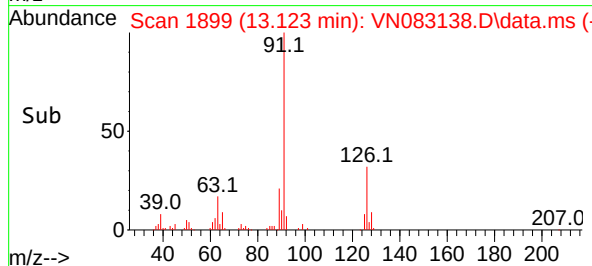
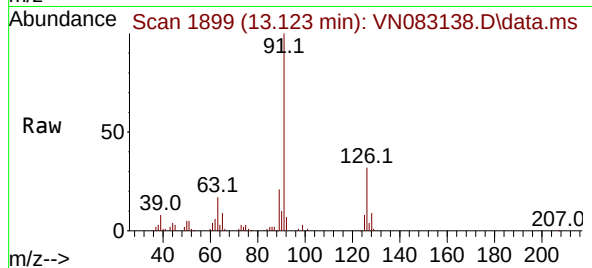
#79
2-Chlorotoluene
Concen: 10.429 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 91 Resp: 8006
Ion Ratio Lower Upper
91 100
126 30.4 16.2 48.6

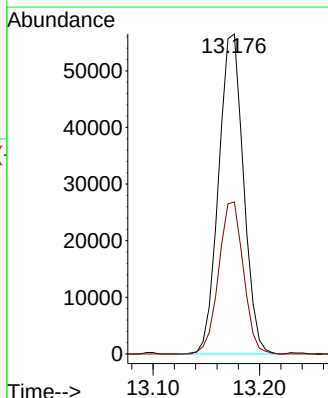
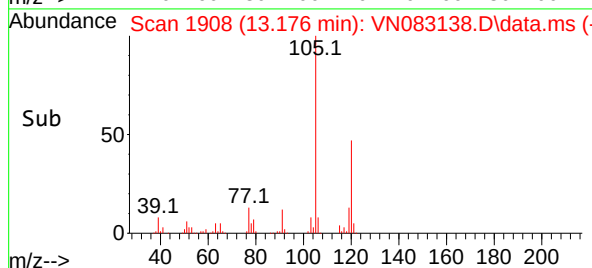
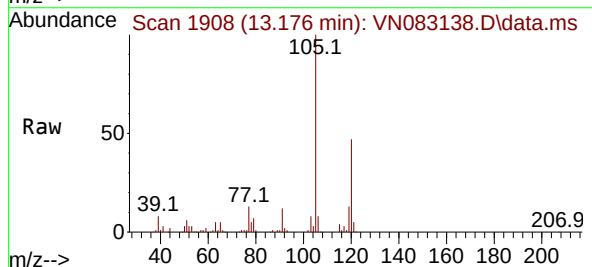
Manual Integrations
APPROVED

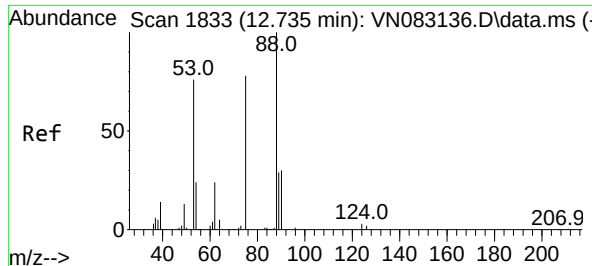
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#80
1,3,5-Trimethylbenzene
Concen: 10.400 ug/l
RT: 13.176 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

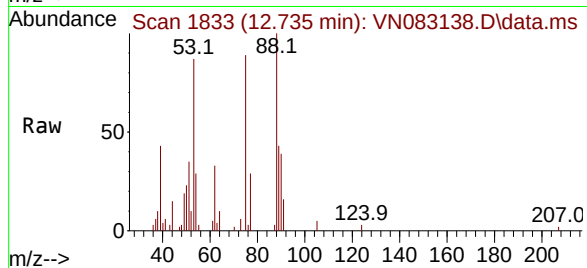
Tgt Ion:105 Resp: 91559
Ion Ratio Lower Upper
105 100
120 47.3 24.3 72.8





#81
trans-1,4-Dichloro-2-butene
Concen: 9.271 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

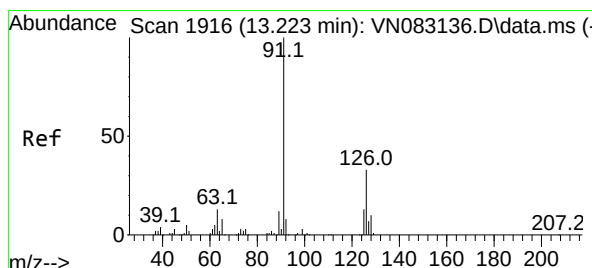
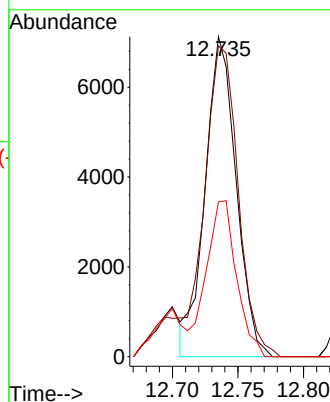
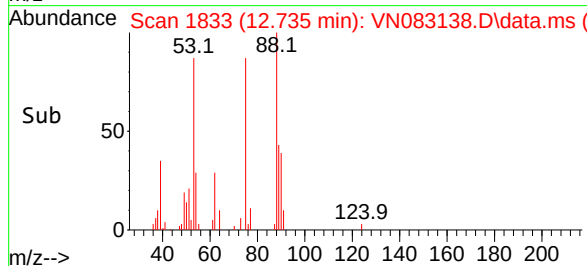
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion: 75 Resp: 11760
Ion Ratio Lower Upper
75 100
53 116.7 88.4 132.6
89 47.3 36.3 54.5

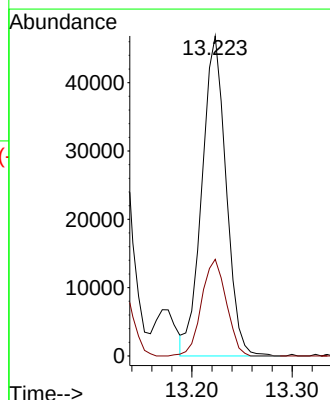
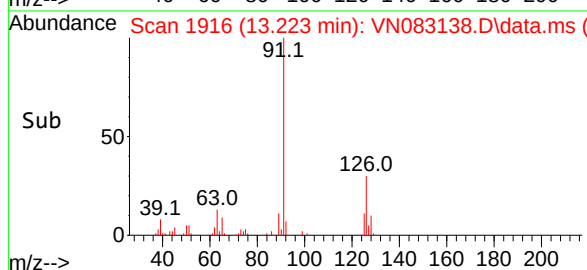
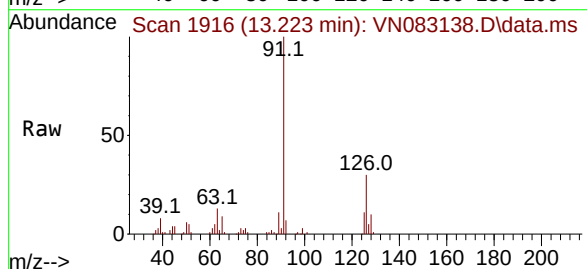
Manual Integrations
APPROVED

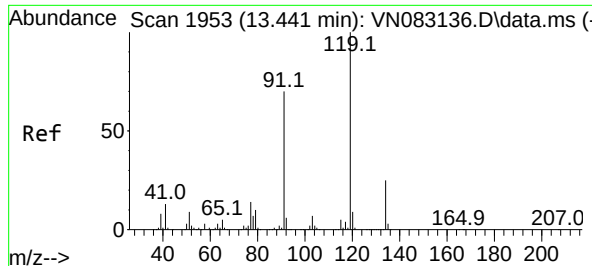
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#82
4-Chlorotoluene
Concen: 10.174 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

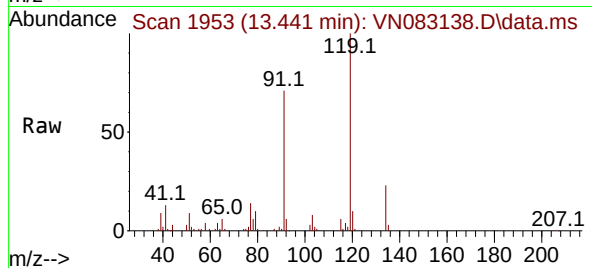
Tgt Ion: 91 Resp: 78348
Ion Ratio Lower Upper
91 100
126 31.0 16.2 48.6





#83
tert-Butylbenzene
Concen: 10.294 ug/l
RT: 13.441 min Scan# 1953
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

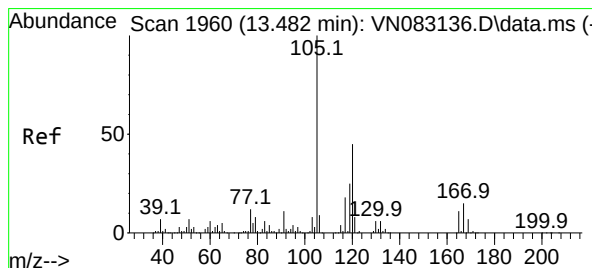
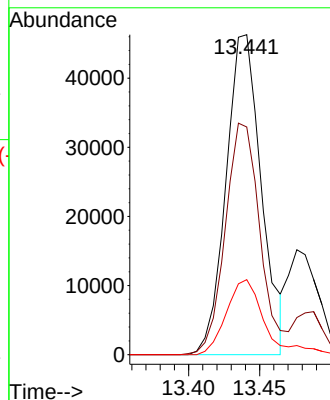
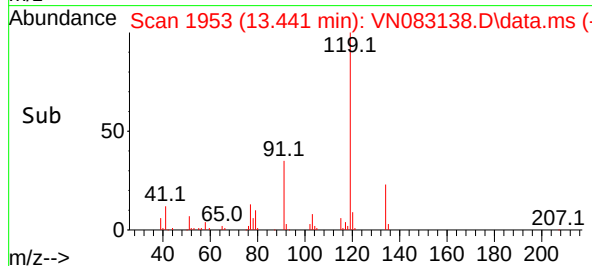
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010



Tgt Ion:119 Resp: 8026
Ion Ratio Lower Upper
119 100
91 71.7 35.0 105.1
134 25.3 13.3 39.8

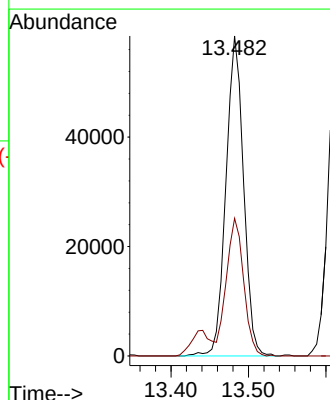
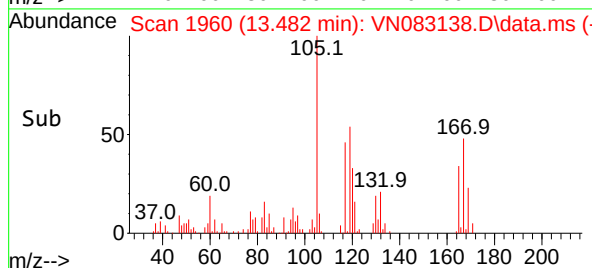
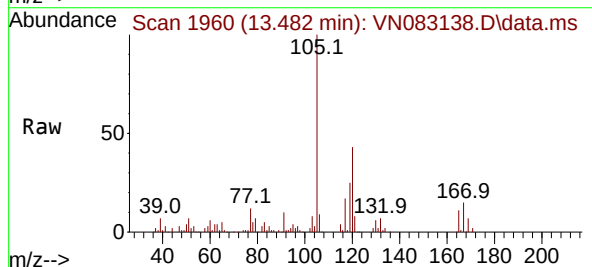
Manual Integrations
APPROVED

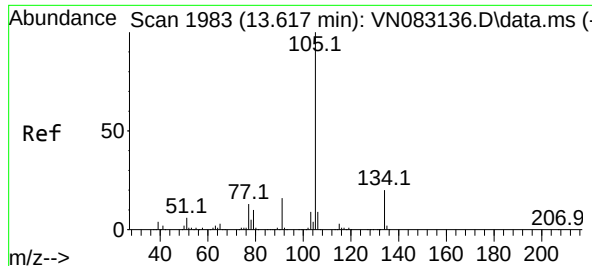
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#84
1,2,4-Trimethylbenzene
Concen: 10.426 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

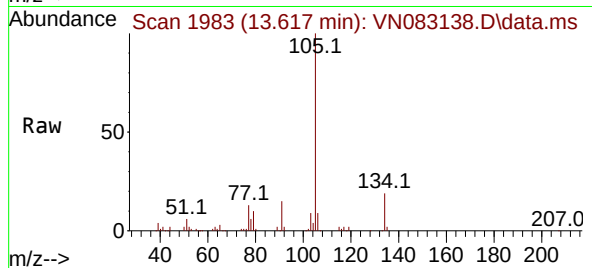
Tgt Ion:105 Resp: 92502
Ion Ratio Lower Upper
105 100
120 42.1 21.9 65.8





#85
sec-Butylbenzene
Concen: 10.221 ug/l
RT: 13.617 min Scan# 1983
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

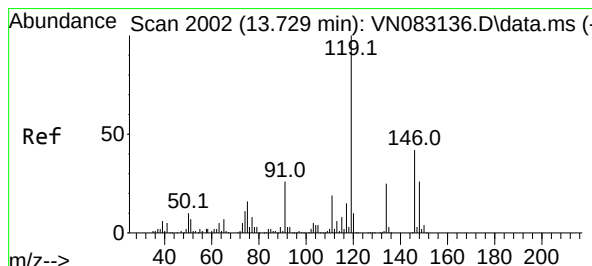
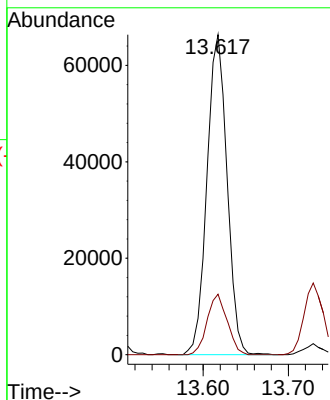
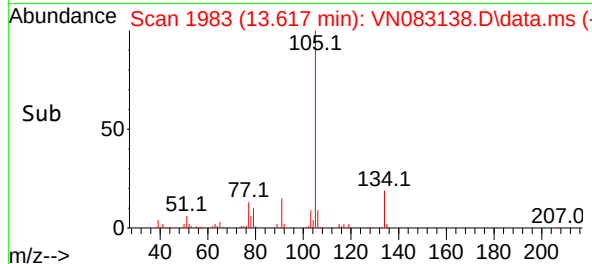
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion:105 Resp: 108740
Ion Ratio Lower Upper
105 100
134 18.8 9.8 29.3

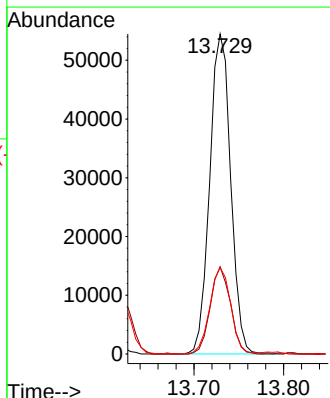
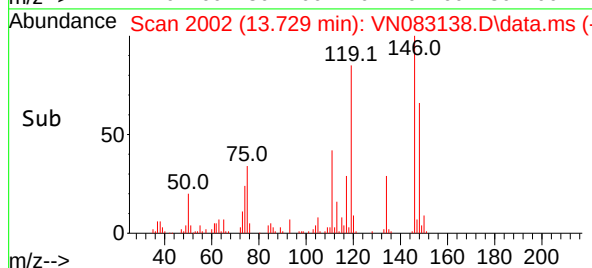
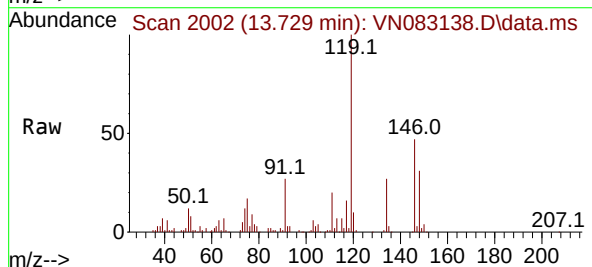
Manual Integrations
APPROVED

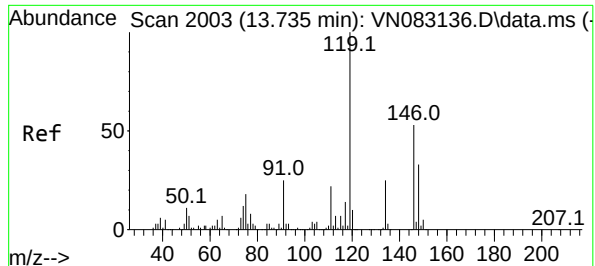
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#86
p-Isopropyltoluene
Concen: 10.047 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:119 Resp: 88256
Ion Ratio Lower Upper
119 100
134 26.2 13.0 39.0
91 27.0 12.3 36.9





#87

1,3-Dichlorobenzene

Concen: 10.048 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion:146 Resp: 4416

Ion Ratio Lower Upper

146 100

111 44.1 20.6 61.9

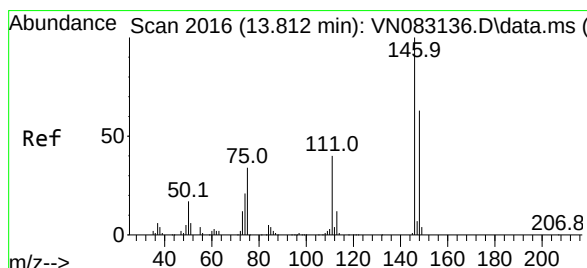
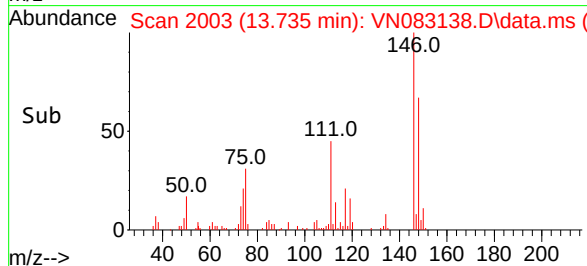
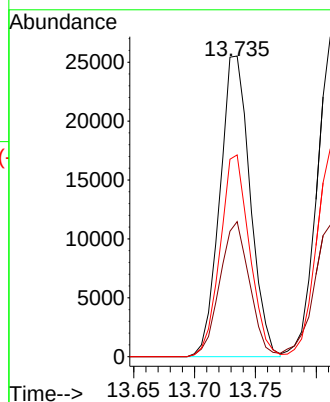
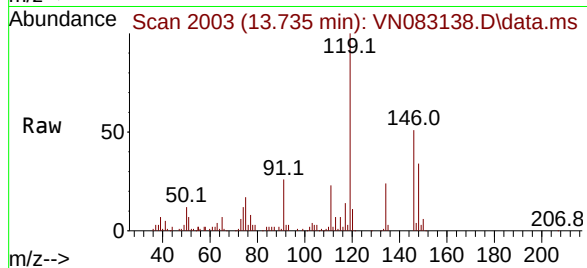
148 65.1 31.8 95.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#88

1,4-Dichlorobenzene

Concen: 9.937 ug/l

RT: 13.811 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

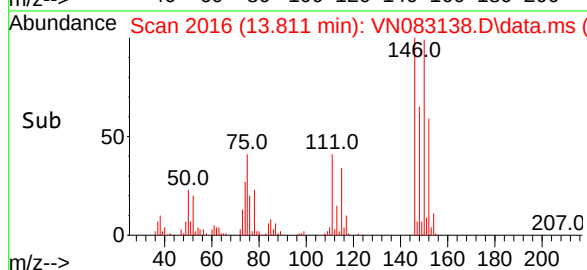
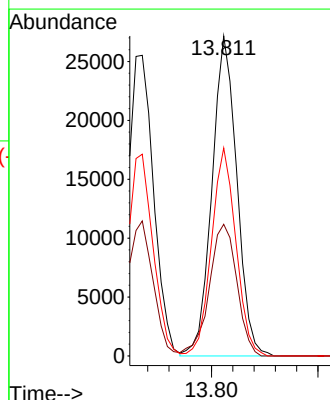
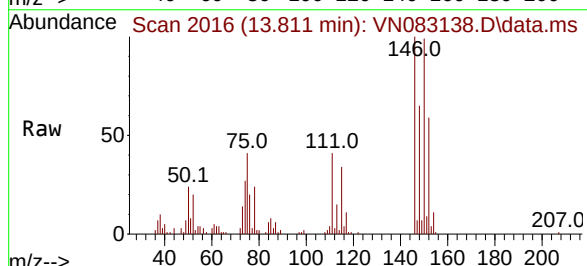
Tgt Ion:146 Resp: 44036

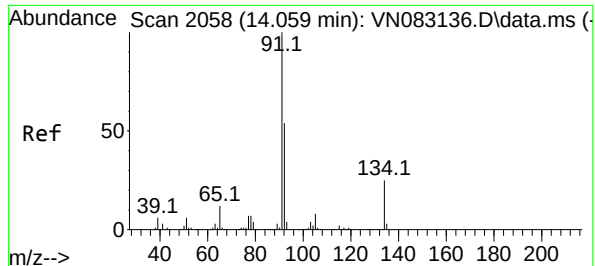
Ion Ratio Lower Upper

146 100

111 45.6 20.1 60.3

148 64.0 32.2 96.6





#89

n-Butylbenzene

Concen: 10.060 ug/l

RT: 14.059 min Scan# 2058

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

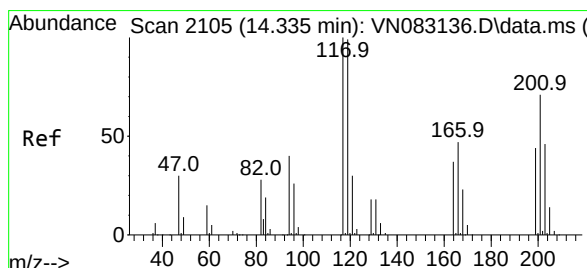
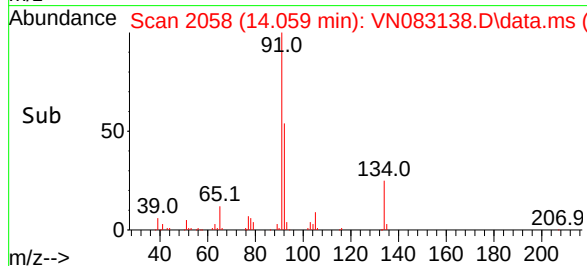
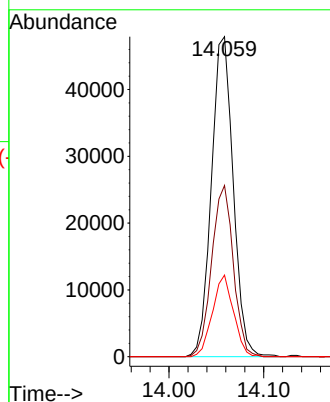
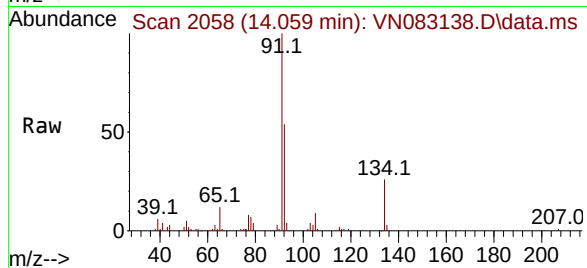
Tgt Ion:	91	Resp:	7656
Ion Ratio	Lower	Upper	
91	100		
92	53.1	26.1	78.3
134	24.7	12.1	36.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#90

Hexachloroethane

Concen: 10.487 ug/l

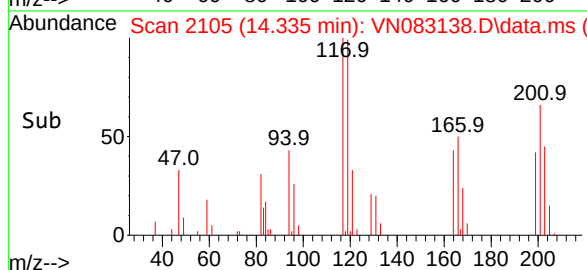
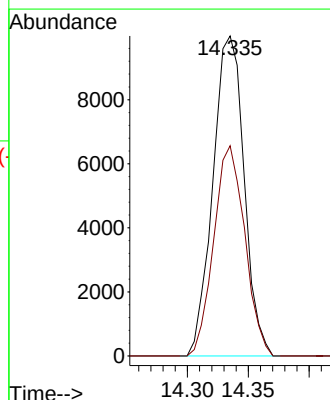
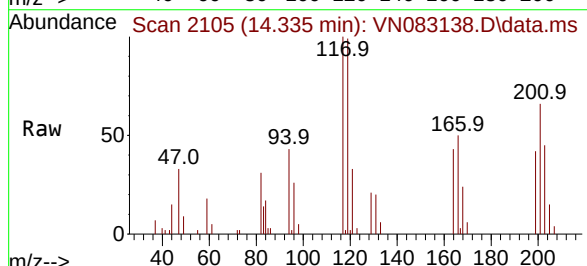
RT: 14.335 min Scan# 2105

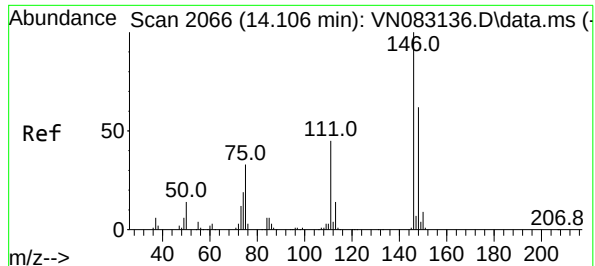
Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Tgt Ion:	117	Resp:	17798
Ion Ratio	Lower	Upper	
117	100		
201	65.3	35.8	107.3





#91

1,2-Dichlorobenzene

Concen: 10.282 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

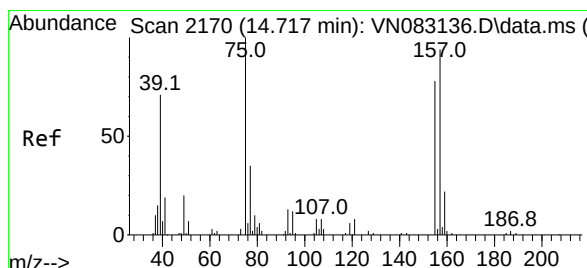
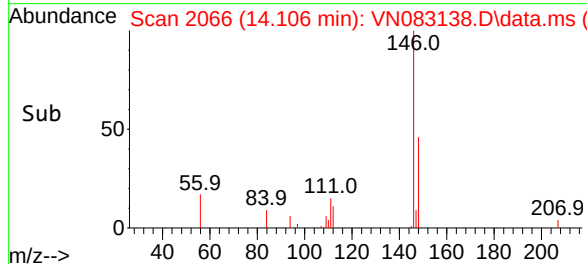
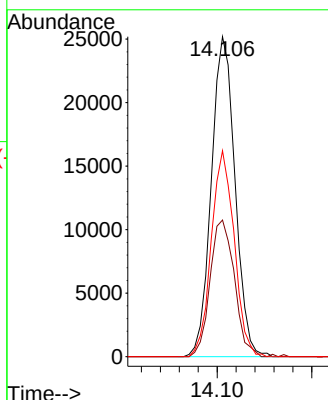
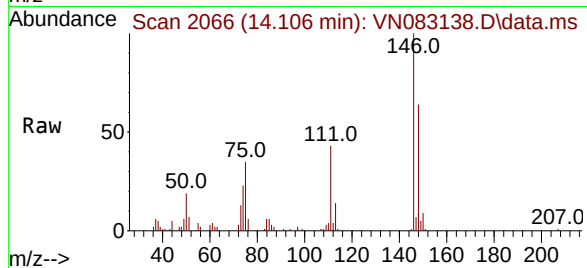
Tgt Ion:	146	Resp:	43734
Ion	Ratio	Lower	Upper
146	100		
111	43.8	21.4	64.2
148	62.3	32.1	96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 10.056 ug/l

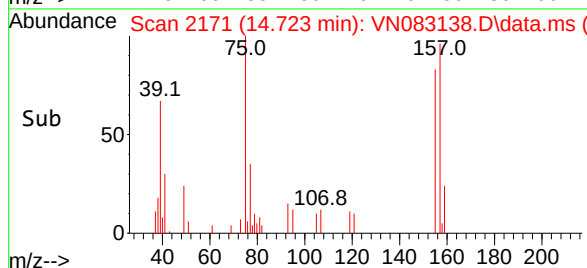
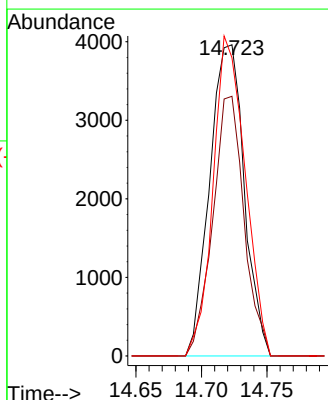
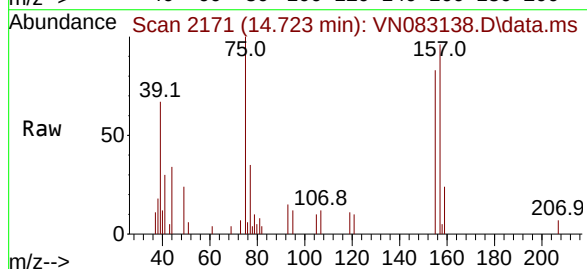
RT: 14.723 min Scan# 2171

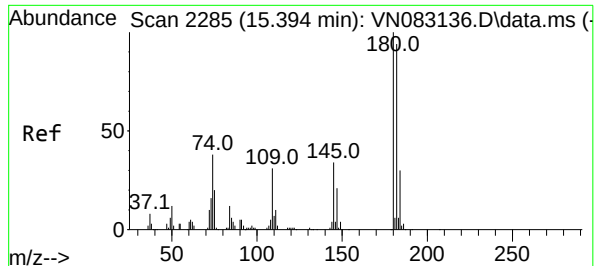
Delta R.T. 0.006 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Tgt Ion:	75	Resp:	7258
Ion	Ratio	Lower	Upper
75	100		
155	75.6	36.6	109.8
157	95.2	46.9	140.6





#93

1,2,4-Trichlorobenzene

Concen: 9.895 ug/l

RT: 15.394 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion:180 Resp: 23580

Ion Ratio Lower Upper

180 100

182 96.2 47.3 141.8

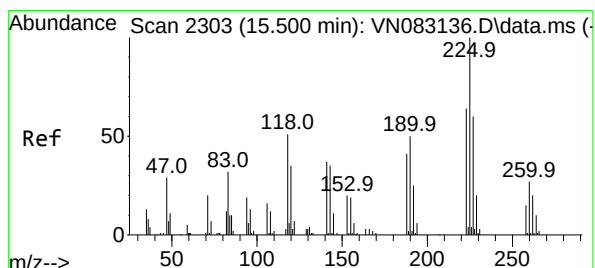
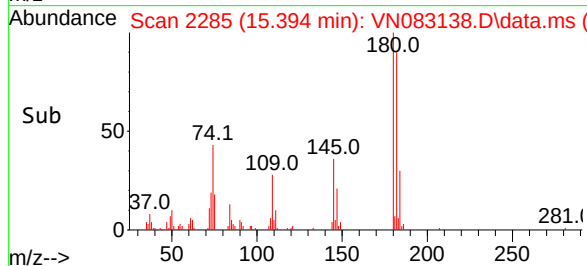
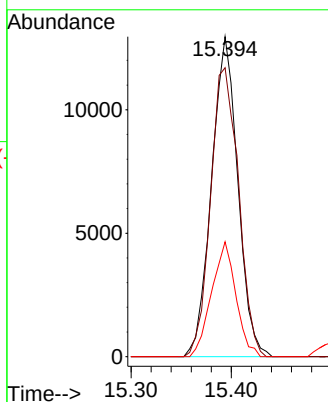
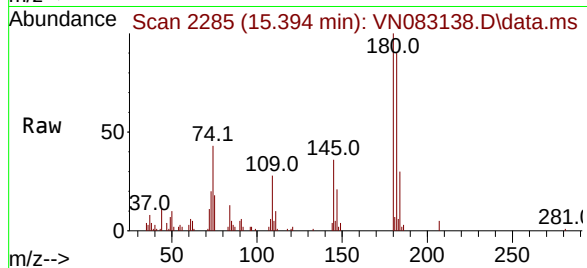
145 33.2 15.7 47.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#94

Hexachlorobutadiene

Concen: 10.179 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

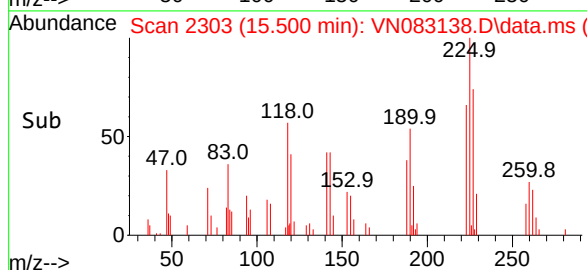
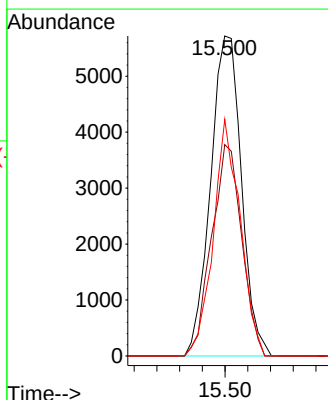
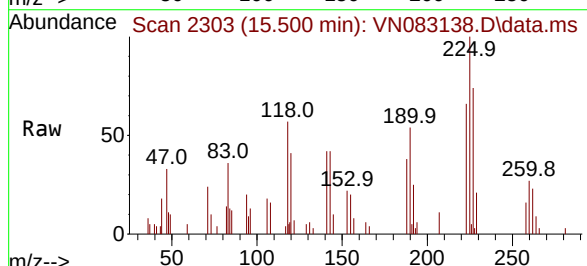
Tgt Ion:225 Resp: 10788

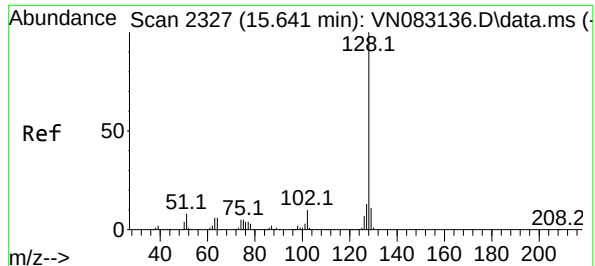
Ion Ratio Lower Upper

225 100

223 64.4 31.9 95.7

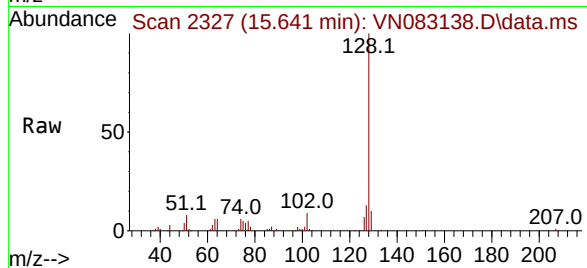
227 64.4 32.5 97.5





#95
Naphthalene
Concen: 10.232 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

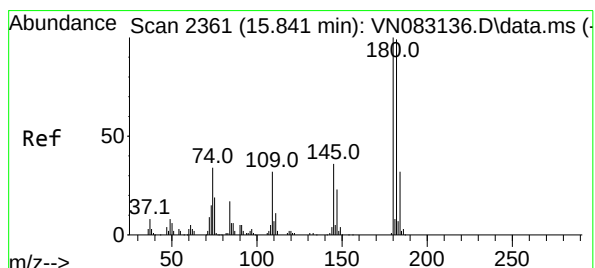
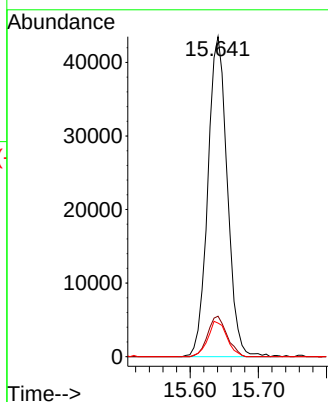
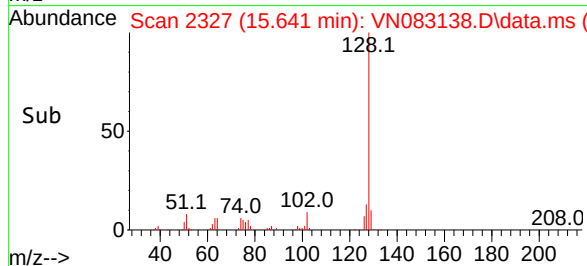
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010



Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.6	16.0
129	10.8	8.6	12.8

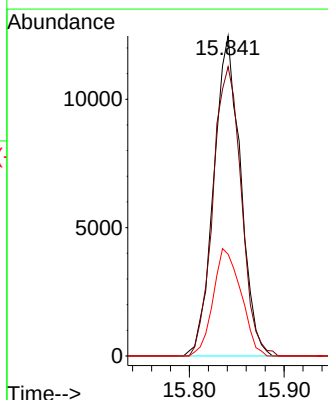
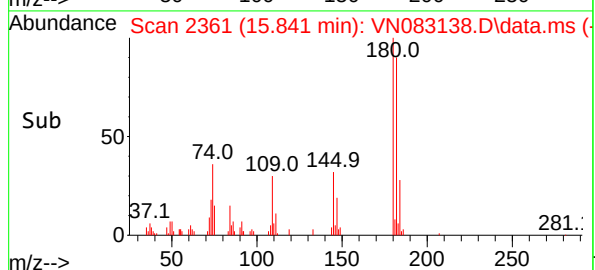
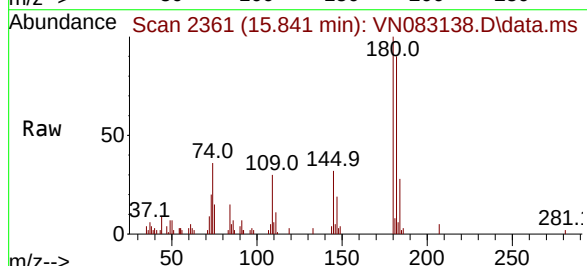
Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#96
1,2,3-Trichlorobenzene
Concen: 10.387 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.3	48.9	146.8
145	34.8	16.8	50.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
 Data File : VN083139.D
 Acq On : 07 Aug 2024 12:10
 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 08/08/2024
 Supervised By :Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 06:18:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 05:50:26 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	201859	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	347562	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	293513	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	133537	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	15867	5.522	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	11.040%#		
35) Dibromofluoromethane	8.159	113	12039	5.549	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	11.100%#		
50) Toluene-d8	10.565	98	43104	5.326	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	10.660%#		
62) 4-Bromofluorobenzene	12.847	95	16776	5.317	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery =	10.640%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	12045	5.262	ug/l	97
3) Chloromethane	2.359	50	12017	5.128	ug/l	97
4) Vinyl Chloride	2.512	62	11837	4.950	ug/l	96
5) Bromomethane	2.942	94	8328	5.612	ug/l	88
6) Chloroethane	3.106	64	7688	5.139	ug/l	90
7) Trichlorofluoromethane	3.489	101	20242	5.124	ug/l	93
8) Diethyl Ether	3.959	74	7674	5.220	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.377	101	11261	5.170	ug/l	99
10) Methyl Iodide	4.595	142	13878	4.844	ug/l #	95
11) Tert butyl alcohol	5.524	59	15685	26.268	ug/l	99
12) 1,1-Dichloroethene	4.342	96	11718	5.237	ug/l	90
13) Acrolein	4.177	56	9615	24.707	ug/l	89
14) Allyl chloride	5.018	41	22183	5.246	ug/l	87
15) Acrylonitrile	5.724	53	31357	25.534	ug/l	96
16) Acetone	4.436	43	27636	24.581	ug/l	97
17) Carbon Disulfide	4.712	76	32908	5.026	ug/l	96
18) Methyl Acetate	5.030	43	17029	5.084	ug/l	98
19) Methyl tert-butyl Ether	5.789	73	41439	5.131	ug/l	93
20) Methylene Chloride	5.271	84	12913	4.991	ug/l #	84
21) trans-1,2-Dichloroethene	5.783	96	11465	4.957	ug/l	88
22) Diisopropyl ether	6.677	45	39688	4.993	ug/l #	97
23) Vinyl Acetate	6.600	43	202471m	24.856	ug/l	
24) 1,1-Dichloroethane	6.565	63	22058	5.091	ug/l	98
25) 2-Butanone	7.488	43	41750	24.185	ug/l	91
26) 2,2-Dichloropropane	7.494	77	19864	4.937	ug/l	95
27) cis-1,2-Dichloroethene	7.483	96	13862	4.967	ug/l	94
28) Bromochloromethane	7.812	49	9874	5.577	ug/l #	85
29) Tetrahydrofuran	7.841	42	28260	25.324	ug/l	89
30) Chloroform	7.965	83	22650	5.032	ug/l	99
31) Cyclohexane	8.265	56	24999	5.871	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	21825	5.123	ug/l #	49
36) 1,1-Dichloropropene	8.377	75	16102	4.907	ug/l	99
37) Ethyl Acetate	7.559	43	17909	4.874	ug/l #	96
38) Carbon Tetrachloride	8.365	117	18728	5.067	ug/l	98
39) Methylcyclohexane	9.600	83	19981	4.957	ug/l	91
40) Benzene	8.606	78	48765	4.988	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
 Data File : VN083139.D
 Acq On : 07 Aug 2024 12:10
 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 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 06:18:41 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M

Quant Title : SW846 8260

QLast Update : Thu Aug 08 05:50:26 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	10086	4.828	ug/l	95
42) 1,2-Dichloroethane	8.671	62	18219	5.116	ug/l	97
43) Isopropyl Acetate	8.694	43	44817	5.438	ug/l #	92
44) Trichloroethene	9.353	130	11830	5.084	ug/l	94
45) 1,2-Dichloropropane	9.624	63	11320	4.878	ug/l	90
46) Dibromomethane	9.712	93	8436	5.079	ug/l	98
47) Bromodichloromethane	9.888	83	18799	5.040	ug/l	98
48) Methyl methacrylate	9.682	41	14704	4.840	ug/l	94
49) 1,4-Dioxane	9.694	88	5239	95.593	ug/l #	77
51) 4-Methyl-2-Pentanone	10.447	43	86679	24.946	ug/l	93
52) Toluene	10.629	92	30769	4.981	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	18964	4.950	ug/l	100
54) cis-1,3-Dichloropropene	10.312	75	20431	5.014	ug/l	93
55) 1,1,2-Trichloroethane	11.018	97	10913	4.930	ug/l	98
56) Ethyl methacrylate	10.876	69	20661	4.951	ug/l	93
57) 1,3-Dichloropropane	11.165	76	18934	4.799	ug/l	94
58) 2-Chloroethyl Vinyl ether	10.159	63	43528	24.676	ug/l	96
59) 2-Hexanone	11.194	43	66854	24.870	ug/l	95
60) Dibromochloromethane	11.359	129	13307	4.972	ug/l	97
61) 1,2-Dibromoethane	11.471	107	11523	4.955	ug/l	96
64) Tetrachloroethene	11.106	164	9517	4.896	ug/l	96
65) Chlorobenzene	11.894	112	32114	4.951	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.959	131	11758	5.140	ug/l	94
67) Ethyl Benzene	11.965	91	59648	5.013	ug/l	97
68) m/p-Xylenes	12.070	106	44572	10.000	ug/l	96
69) o-Xylene	12.400	106	22003	5.005	ug/l	99
70) Styrene	12.412	104	37023	5.014	ug/l	98
71) Bromoform	12.582	173	8085	4.665	ug/l #	89
73) Isopropylbenzene	12.694	105	56741	5.080	ug/l	100
74) N-amyl acetate	12.494	43	27393	5.014	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.935	83	16514	5.227	ug/l	97
76) 1,2,3-Trichloropropane	12.994	75	14463m	4.927	ug/l	
77) Bromobenzene	12.982	156	13024	5.249	ug/l	94
78) n-propylbenzene	13.035	91	64751	5.035	ug/l	99
79) 2-Chlorotoluene	13.123	91	41176	5.050	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	47581	5.088	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.735	75	7079	5.254	ug/l	92
82) 4-Chlorotoluene	13.223	91	41137	5.030	ug/l	97
83) tert-Butylbenzene	13.435	119	42723	5.159	ug/l	100
84) 1,2,4-Trimethylbenzene	13.482	105	47965	5.090	ug/l	98
85) sec-Butylbenzene	13.617	105	56947	5.040	ug/l	98
86) p-Isopropyltoluene	13.729	119	47654	5.108	ug/l	98
87) 1,3-Dichlorobenzene	13.735	146	22814	4.887	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	23971	5.093	ug/l	94
89) n-Butylbenzene	14.053	91	40282	4.983	ug/l	99
90) Hexachloroethane	14.335	117	9298	5.158	ug/l	93
91) 1,2-Dichlorobenzene	14.106	146	23116	5.117	ug/l	96
92) 1,2-Dibromo-3-Chloropr...	14.717	75	4097	5.345	ug/l	94
93) 1,2,4-Trichlorobenzene	15.394	180	11922	4.710	ug/l	94
94) Hexachlorobutadiene	15.500	225	5946	5.282	ug/l	93
95) Naphthalene	15.641	128	43131	4.811	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	12285	4.905	ug/l	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083139.D
Acq On : 07 Aug 2024 12:10
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 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 06:18:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
Response via : Initial Calibration

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

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

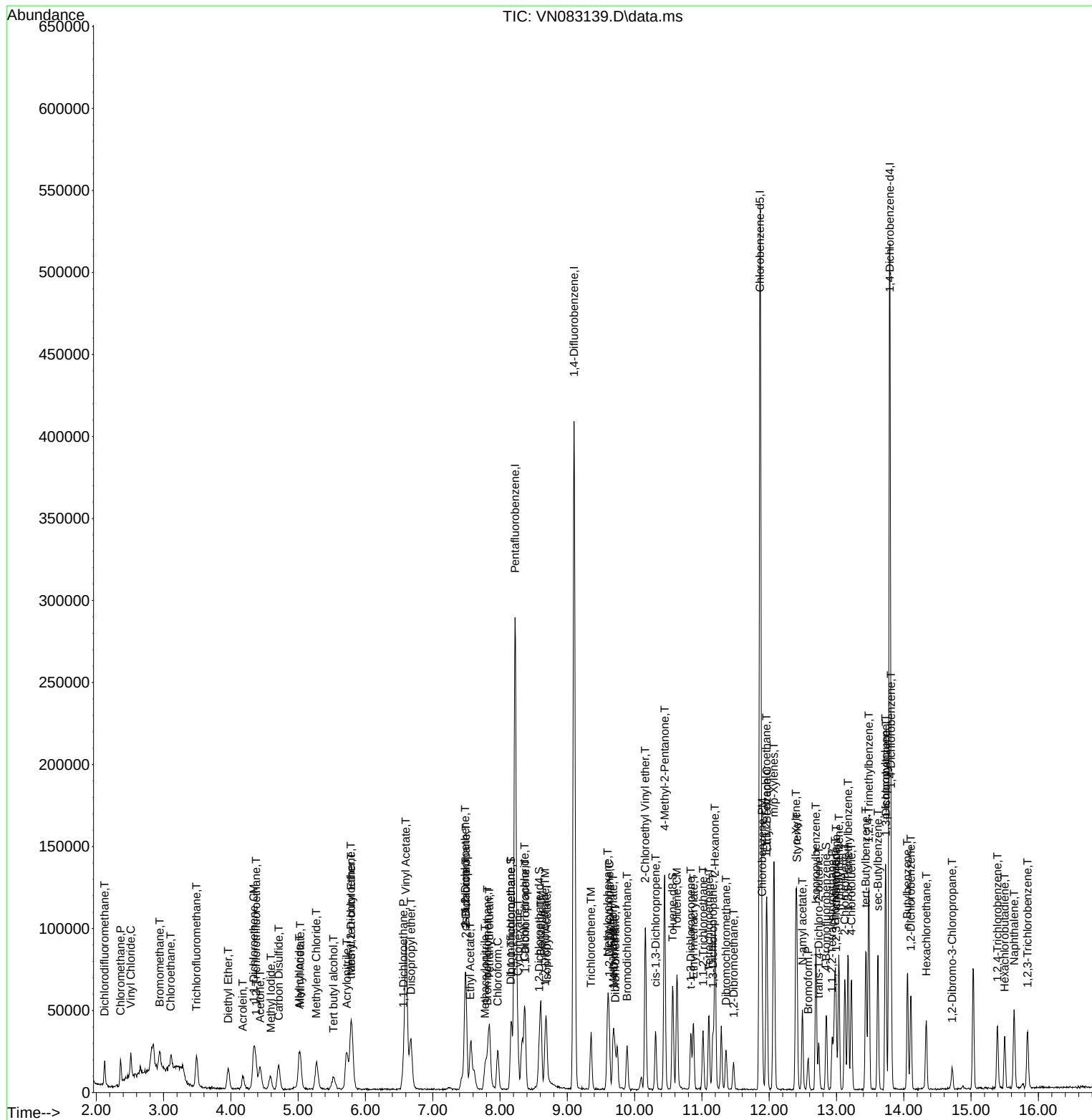
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083139.D
Acq On : 07 Aug 2024 12:10
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

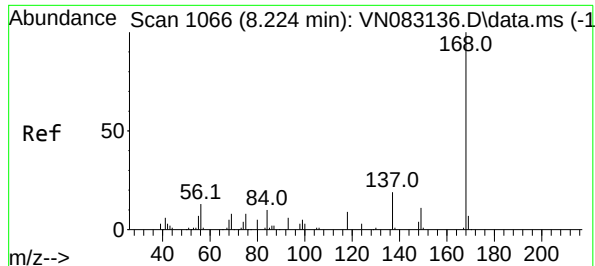
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 06:18:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:168 Resp: 20185

Ion Ratio Lower Upper

168 100

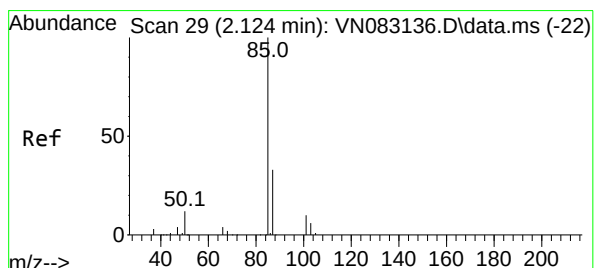
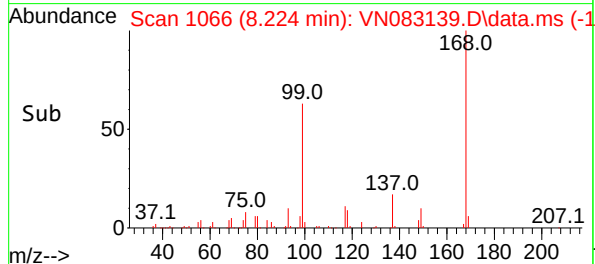
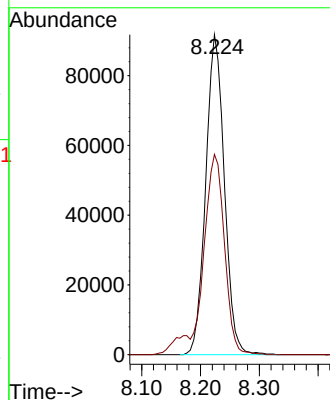
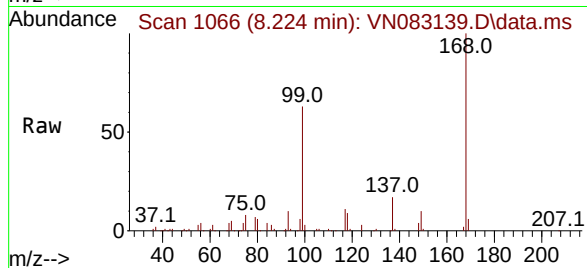
99 62.6 48.2 72.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#2

Dichlorodifluoromethane

Concen: 5.262 ug/l

RT: 2.124 min Scan# 29

Delta R.T. 0.000 min

Lab File: VN083139.D

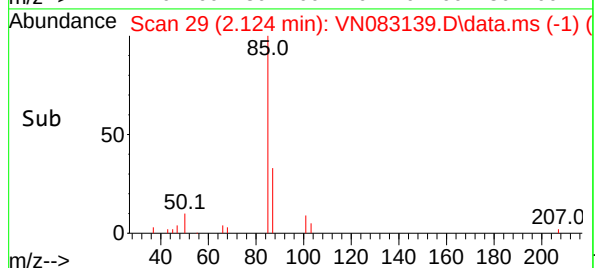
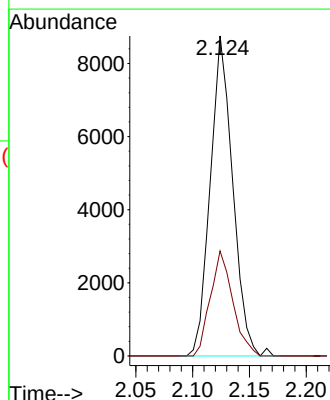
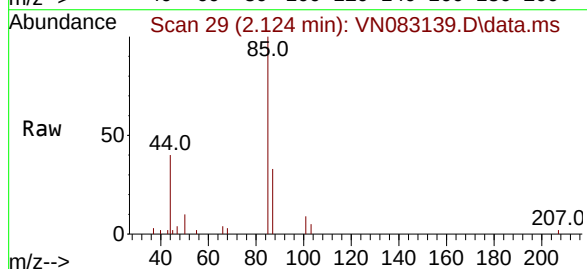
Acq: 07 Aug 2024 12:10

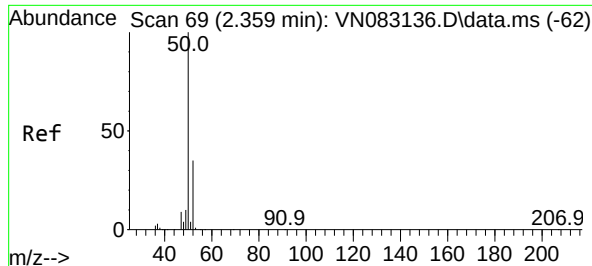
Tgt Ion: 85 Resp: 12045

Ion Ratio Lower Upper

85 100

87 32.8 15.7 47.0





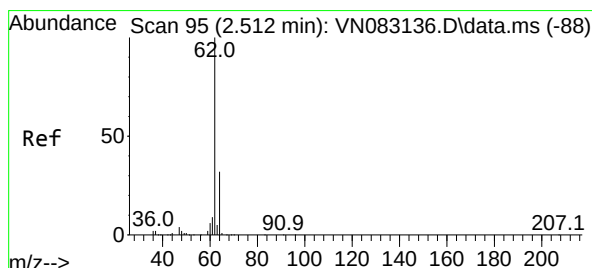
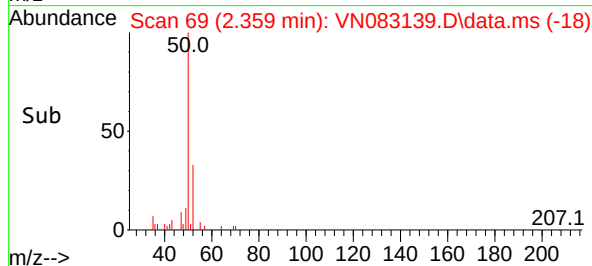
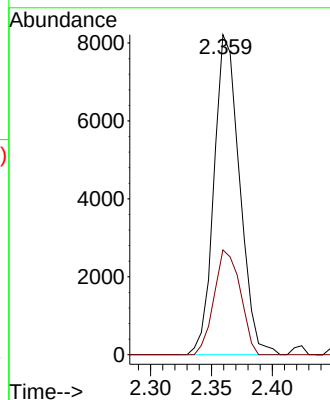
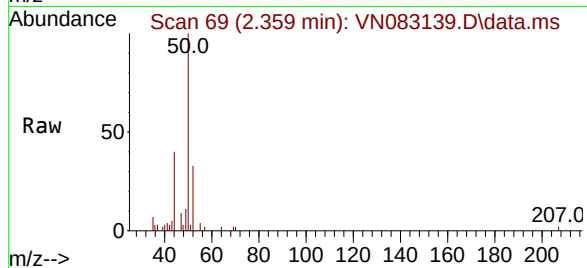
#3
Chloromethane
Concen: 5.128 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 1201
Ion Ratio Lower Upper
50 100
52 32.7 25.0 37.4

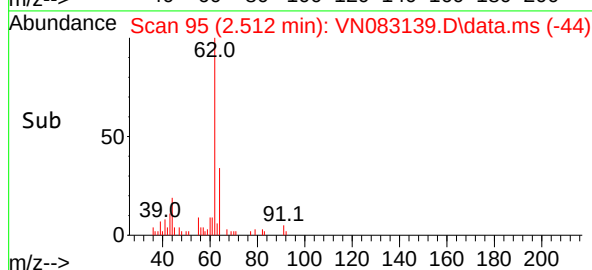
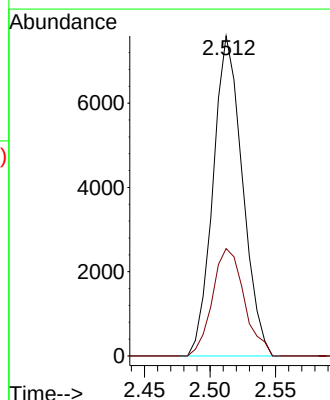
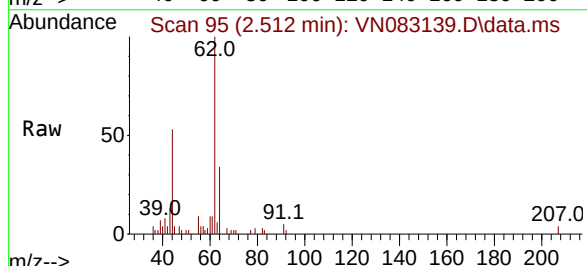
Manual Integrations
APPROVED

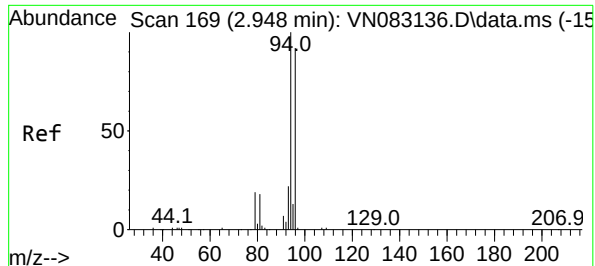
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#4
Vinyl Chloride
Concen: 4.950 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

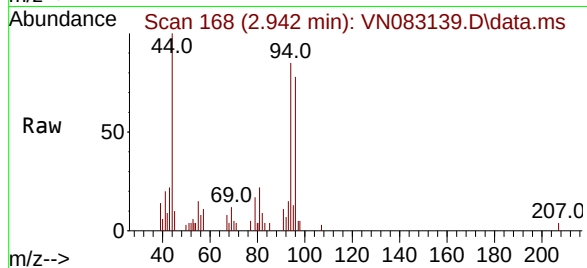
Tgt Ion: 62 Resp: 11837
Ion Ratio Lower Upper
62 100
64 33.6 25.0 37.6





#5
Bromomethane
Concen: 5.612 ug/l
RT: 2.942 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

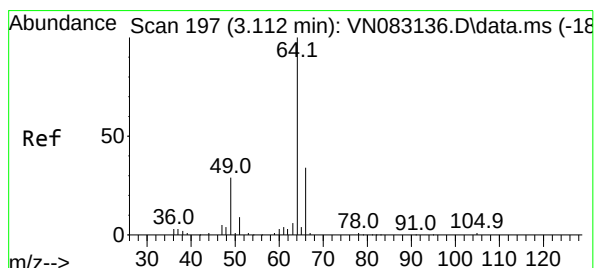
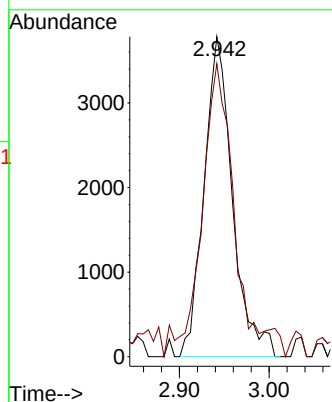
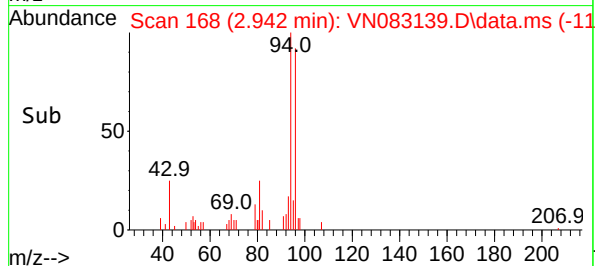
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion: 94 Resp: 8328
Ion Ratio Lower Upper
94 100
96 85.3 78.0 117.0

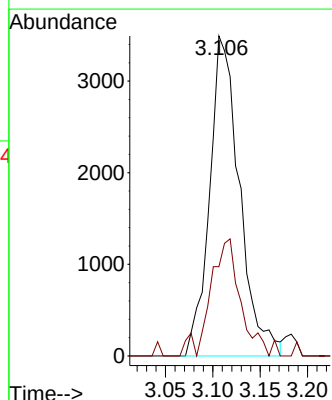
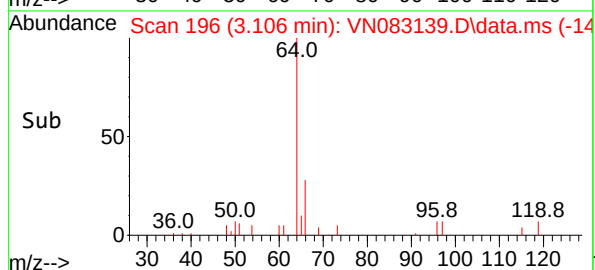
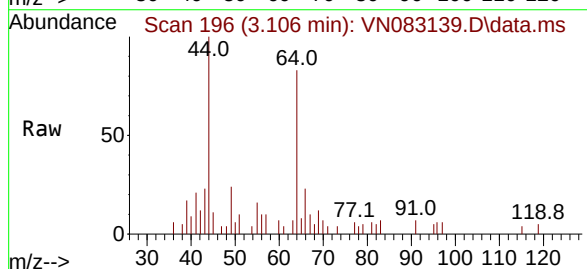
Manual Integrations
APPROVED

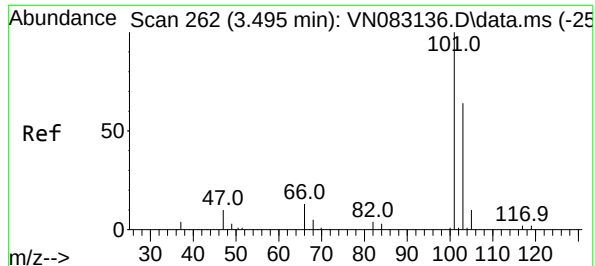
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#6
Chloroethane
Concen: 5.139 ug/l
RT: 3.106 min Scan# 196
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

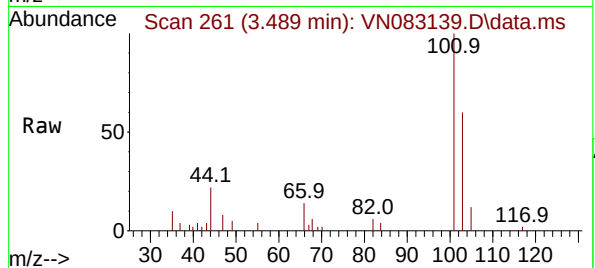
Tgt Ion: 64 Resp: 7688
Ion Ratio Lower Upper
64 100
66 27.9 26.6 40.0





#7
Trichlorofluoromethane
Concen: 5.124 ug/l
RT: 3.489 min Scan# 261
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

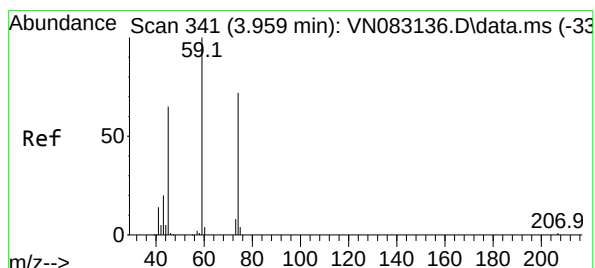
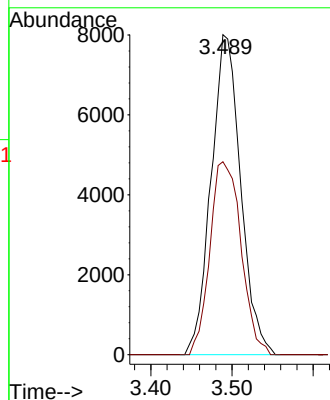
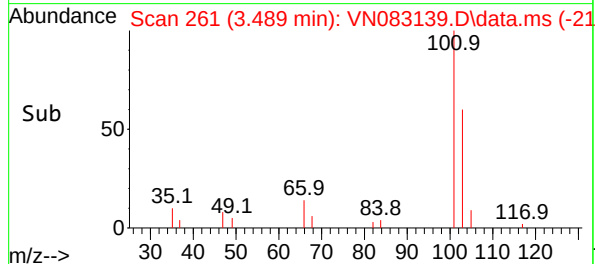
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion:101 Resp: 2024
Ion Ratio Lower Upper
101 100
103 60.3 52.7 79.1

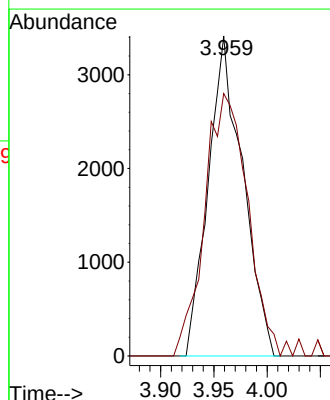
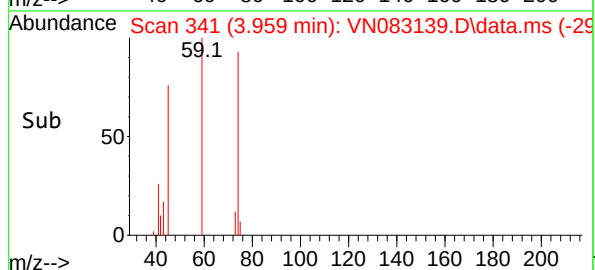
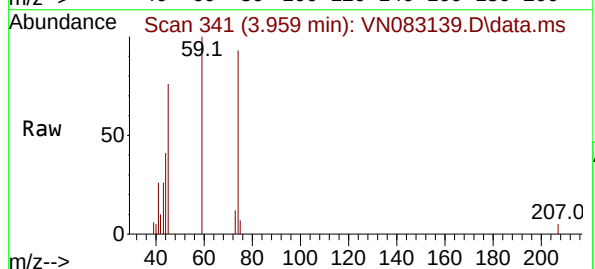
Manual Integrations
APPROVED

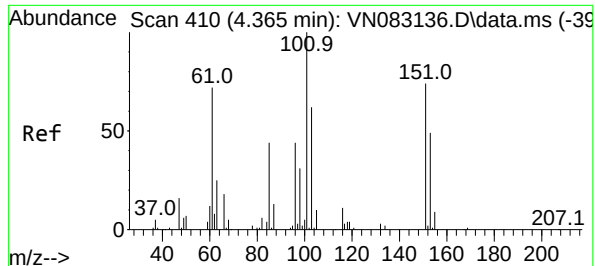
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#8
Diethyl Ether
Concen: 5.220 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 74 Resp: 7674
Ion Ratio Lower Upper
74 100
45 101.8 55.5 166.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.170 ug/l

RT: 4.377 min Scan# 410

Delta R.T. 0.012 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

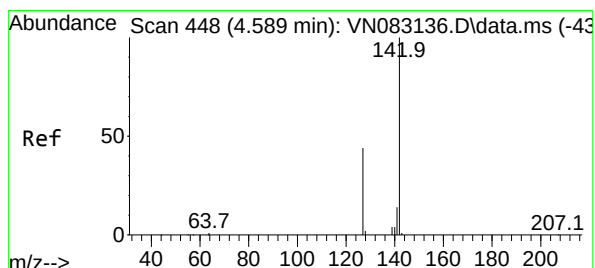
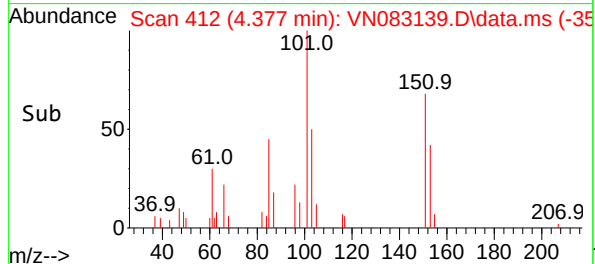
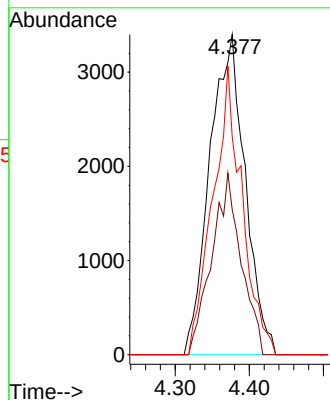
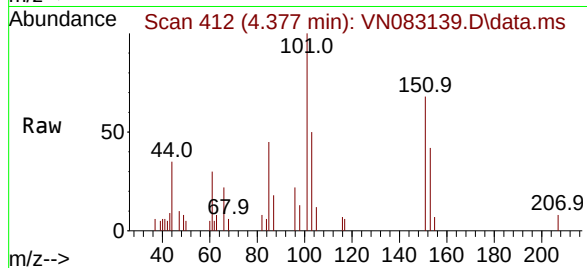
Tgt Ion:	101	Resp:	1126
Ion	Ratio	Lower	Upper
101	100		
85	47.2	38.3	57.5
151	74.4	59.3	88.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#10

Methyl Iodide

Concen: 4.844 ug/l

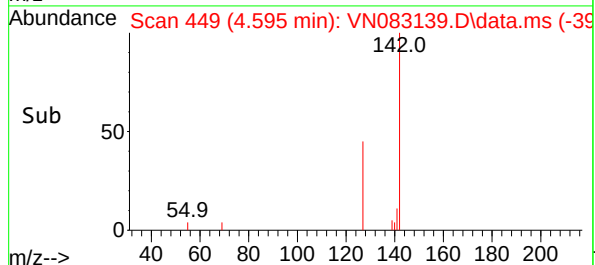
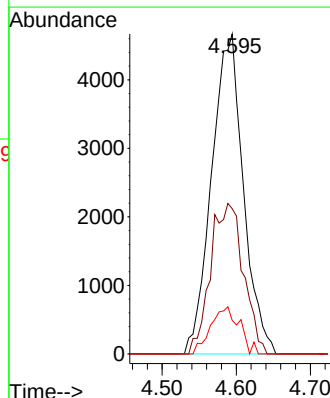
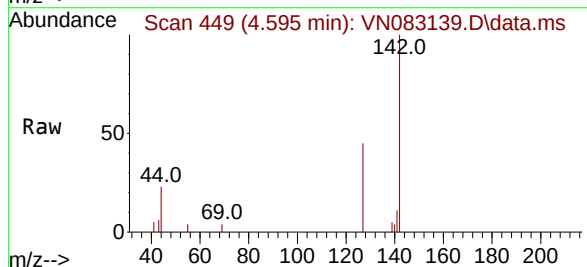
RT: 4.595 min Scan# 449

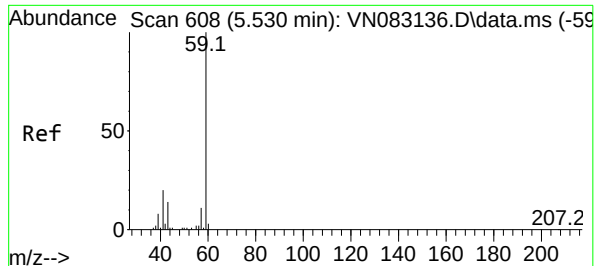
Delta R.T. 0.006 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Tgt Ion:	142	Resp:	13878
Ion	Ratio	Lower	Upper
142	100		
127	45.4	37.5	56.3
141	10.5	13.1	19.7





#11

Tert butyl alcohol

Concen: 26.268 ug/l

RT: 5.524 min Scan# 608

Delta R.T. -0.006 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 59 Resp: 1568

Ion Ratio Lower Upper

59 100

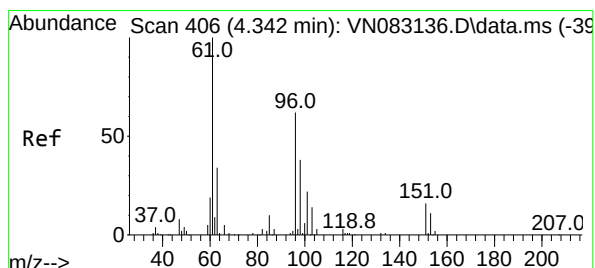
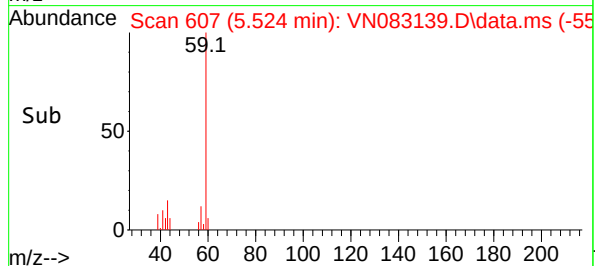
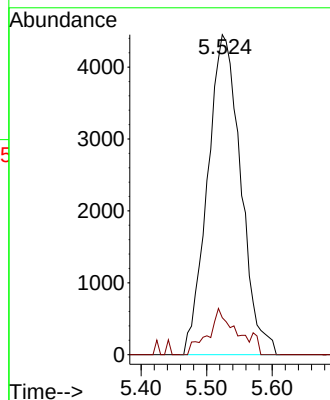
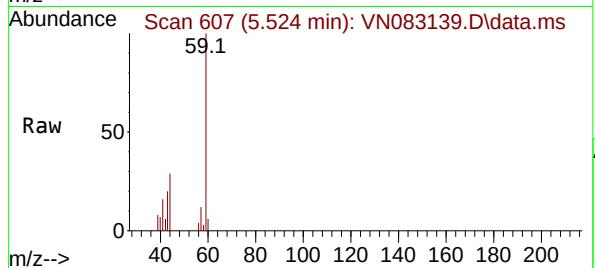
57 11.4 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#12

1,1-Dichloroethene

Concen: 5.237 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

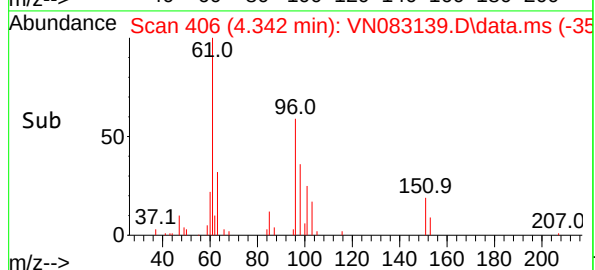
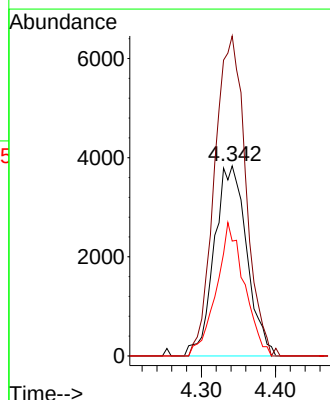
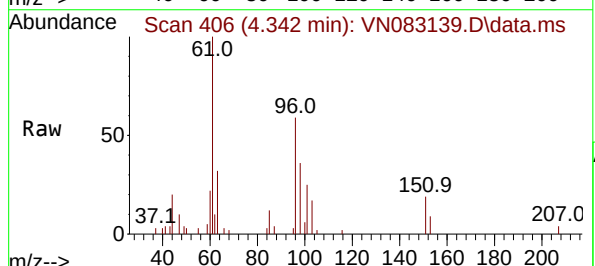
Tgt Ion: 96 Resp: 11718

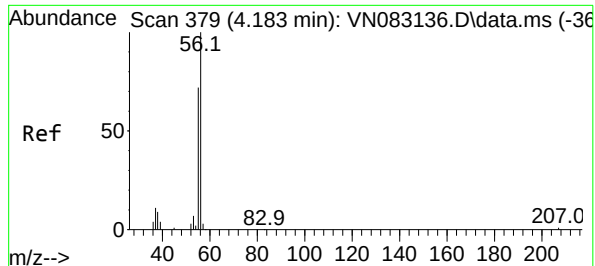
Ion Ratio Lower Upper

96 100

61 168.3 149.7 224.5

98 60.4 50.1 75.1





#13

Acrolein

Concen: 24.707 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.006 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 56 Resp: 961

Ion Ratio Lower Upper

56 100

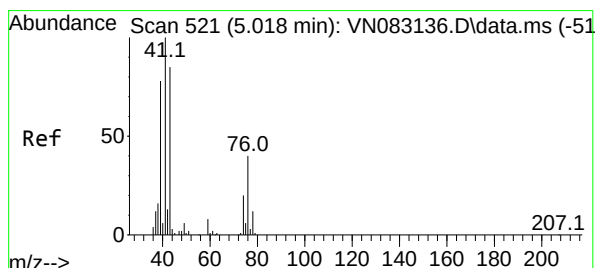
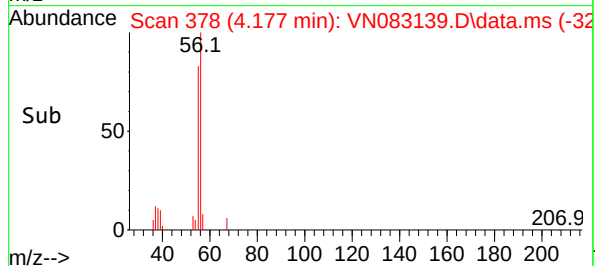
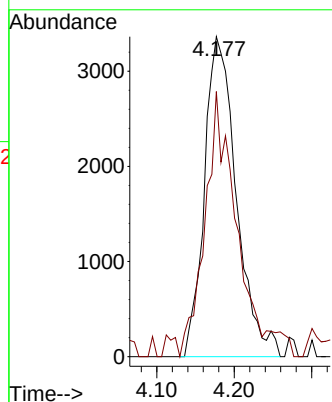
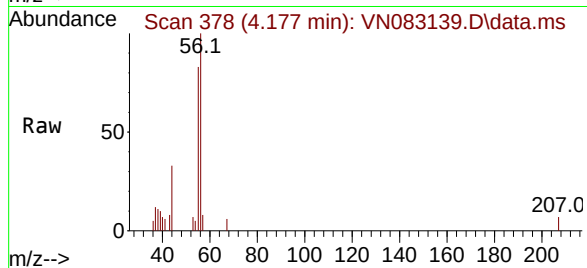
55 80.0 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#14

Allyl chloride

Concen: 5.246 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

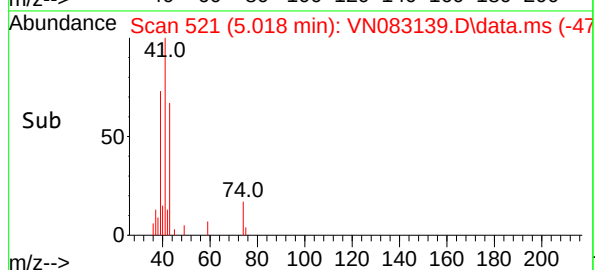
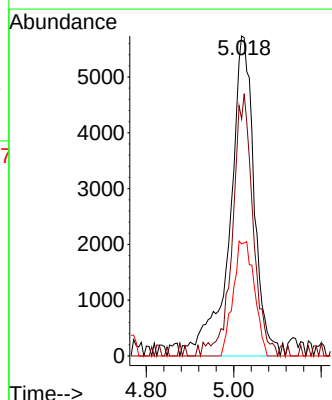
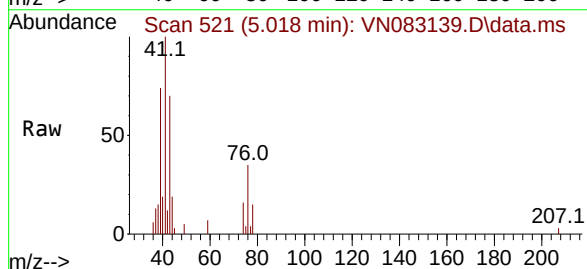
Tgt Ion: 41 Resp: 22183

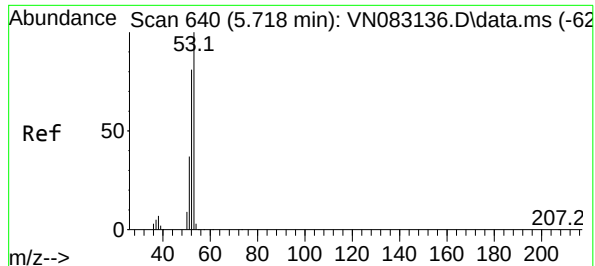
Ion Ratio Lower Upper

41 100

39 69.3 67.8 101.6

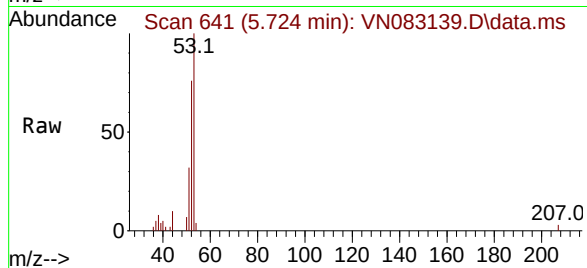
76 31.2 25.8 38.8





#15
Acrylonitrile
Concen: 25.534 ug/l
RT: 5.724 min Scan# 641
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

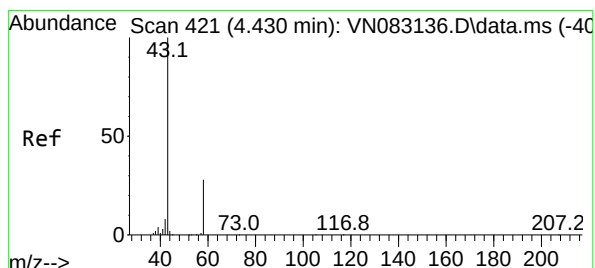
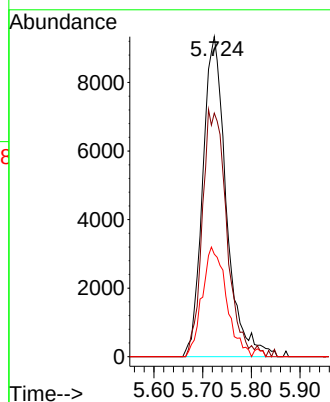
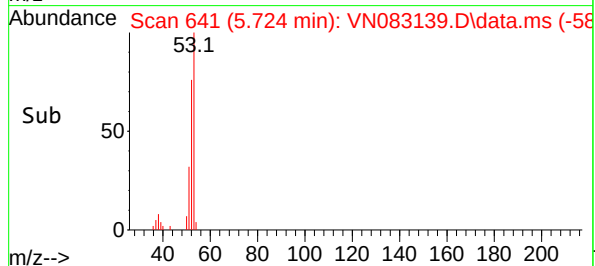
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 53 Resp: 3135
Ion Ratio Lower Upper
53 100
52 79.9 66.6 100.0
51 35.3 30.1 45.1

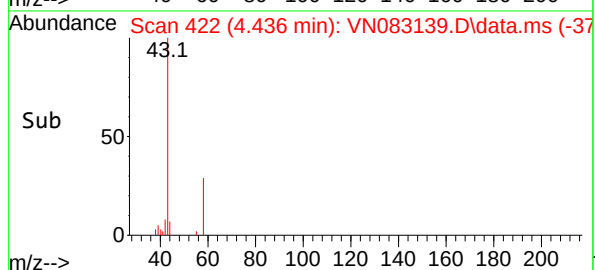
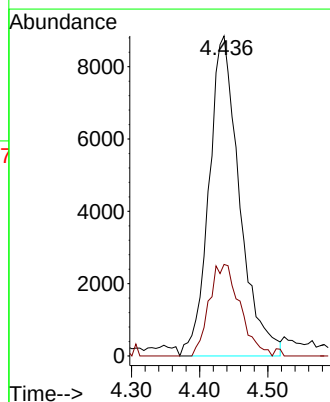
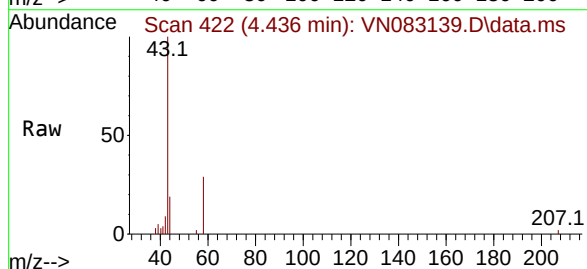
Manual Integrations
APPROVED

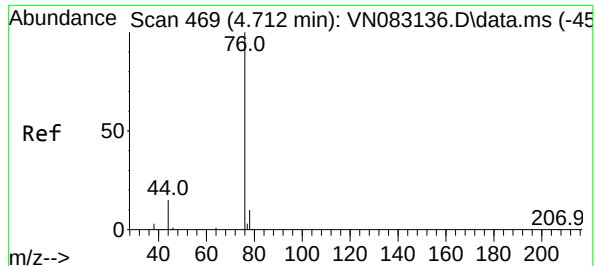
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#16
Acetone
Concen: 24.581 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 43 Resp: 27636
Ion Ratio Lower Upper
43 100
58 28.6 21.8 32.6





#17

Carbon Disulfide

Concen: 5.026 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 76 Resp: 32908

Ion Ratio Lower Upper

76 100

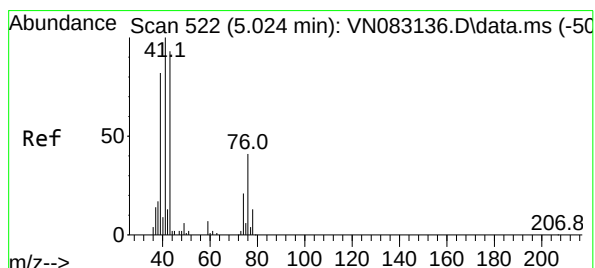
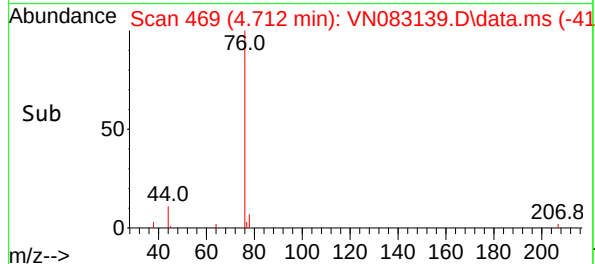
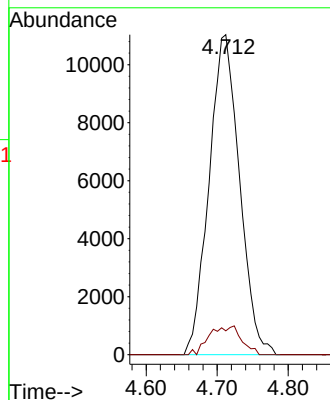
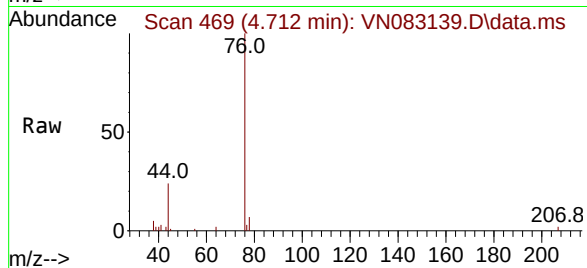
78 7.4 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#18

Methyl Acetate

Concen: 5.084 ug/l

RT: 5.030 min Scan# 523

Delta R.T. 0.006 min

Lab File: VN083139.D

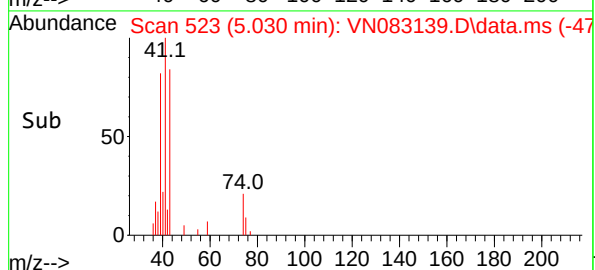
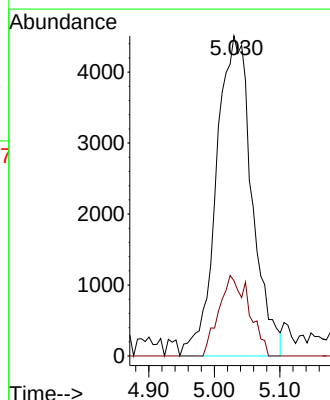
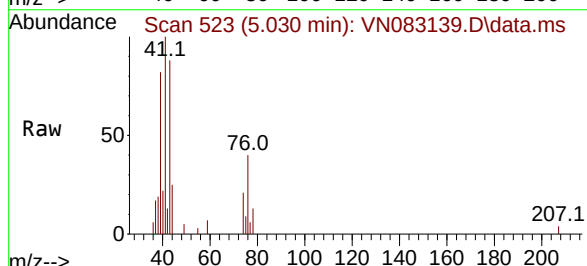
Acq: 07 Aug 2024 12:10

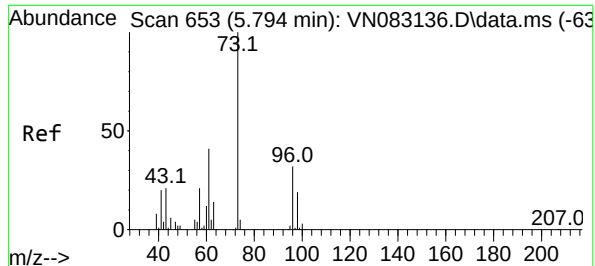
Tgt Ion: 43 Resp: 17029

Ion Ratio Lower Upper

43 100

74 21.4 16.3 24.5





#19

Methyl tert-butyl Ether

Concen: 5.131 ug/l

RT: 5.789 min Scan# 61

Delta R.T. -0.006 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 73 Resp: 41439

Ion Ratio Lower Upper

73 100

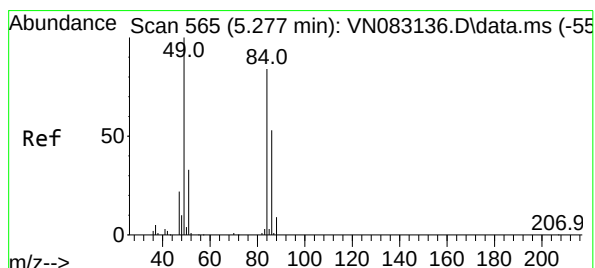
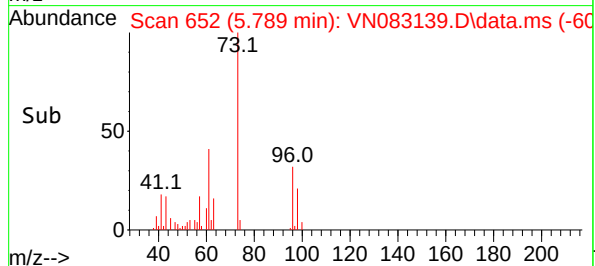
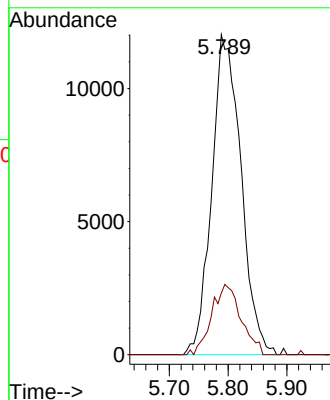
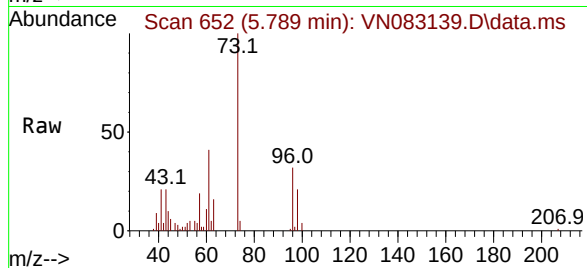
57 19.2 17.9 26.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#20

Methylene Chloride

Concen: 4.991 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.006 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Tgt Ion: 84 Resp: 12913

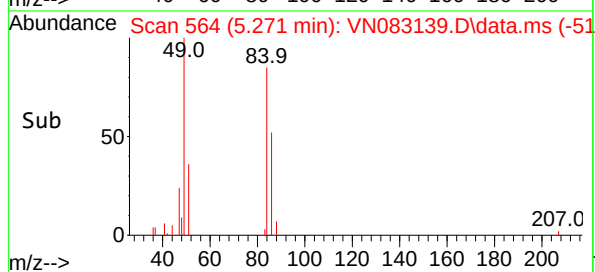
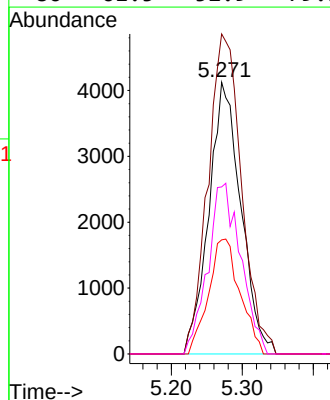
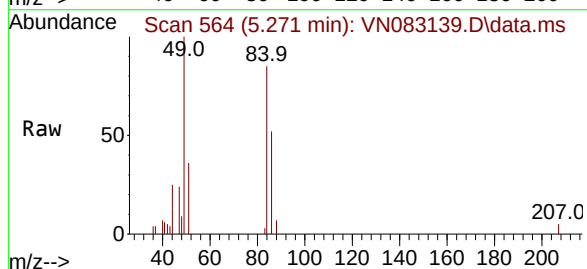
Ion Ratio Lower Upper

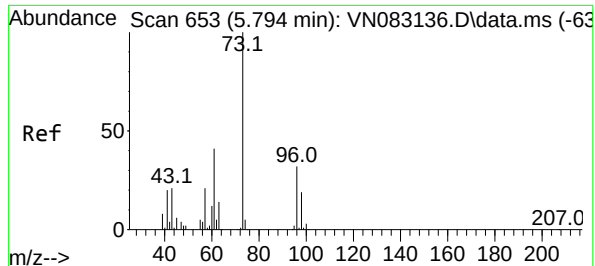
84 100

49 117.8 119.6 179.4#

51 42.0 34.8 52.2

86 61.5 52.9 79.3





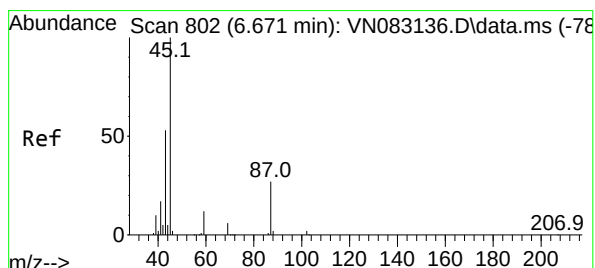
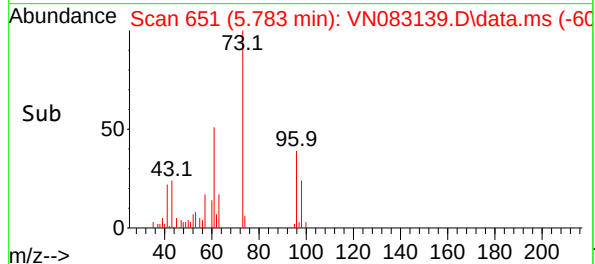
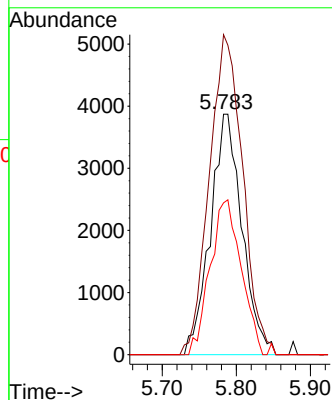
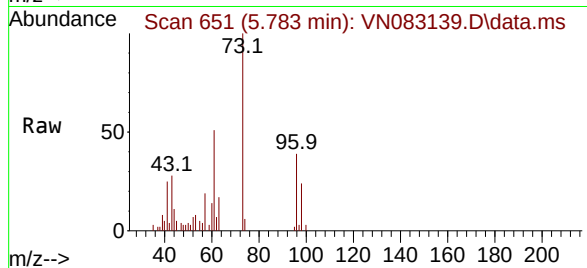
#21
trans-1,2-Dichloroethene
Concen: 4.957 ug/l
RT: 5.783 min Scan# 61
Delta R.T. -0.012 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 1146
Ion Ratio Lower Upper
96 100
61 133.0 123.4 185.2
98 63.1 49.3 73.9

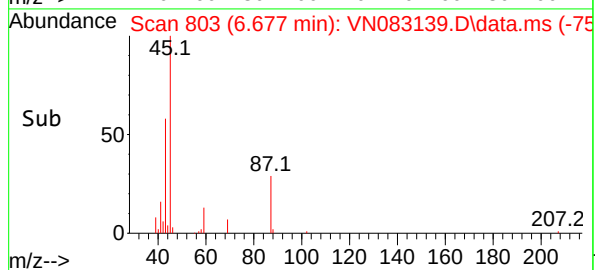
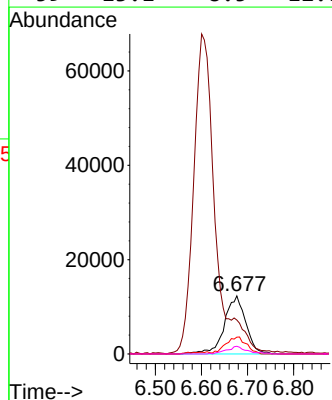
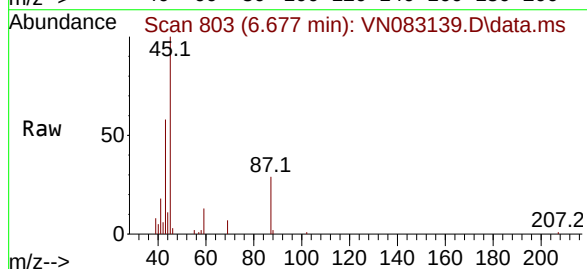
Manual Integrations
APPROVED

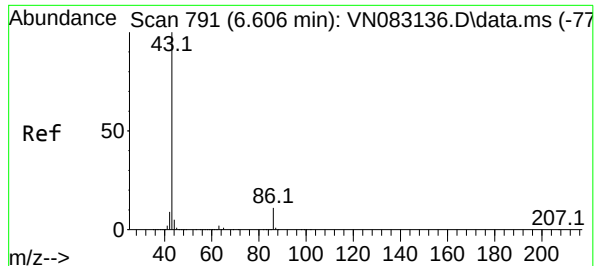
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#22
Diisopropyl ether
Concen: 4.993 ug/l
RT: 6.677 min Scan# 803
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

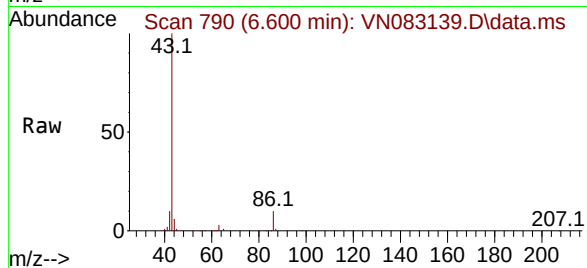
Tgt Ion: 45 Resp: 39688
Ion Ratio Lower Upper
45 100
43 54.9 44.0 66.0
87 29.0 19.7 29.5
59 13.1 8.5 12.7#





#23
Vinyl Acetate
Concen: 24.856 ug/l m
RT: 6.600 min Scan# 791
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

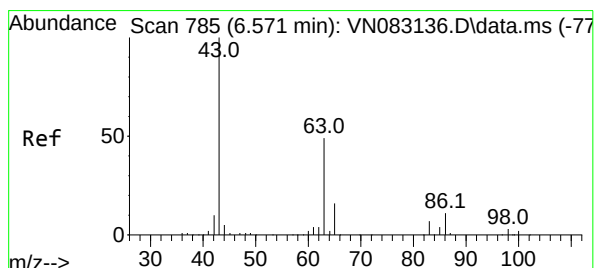
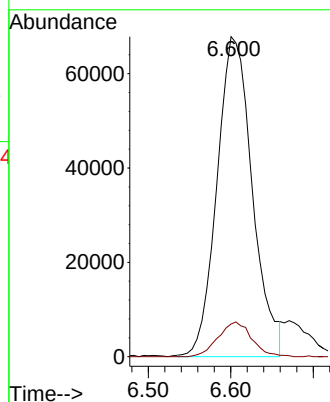
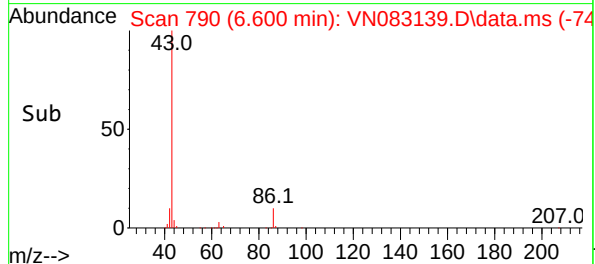
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion: 43 Resp: 20247
Ion Ratio Lower Upper
43 100
86 10.2 7.3 10.9

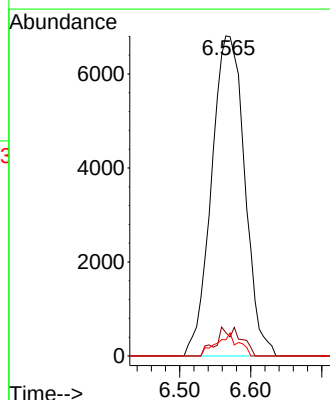
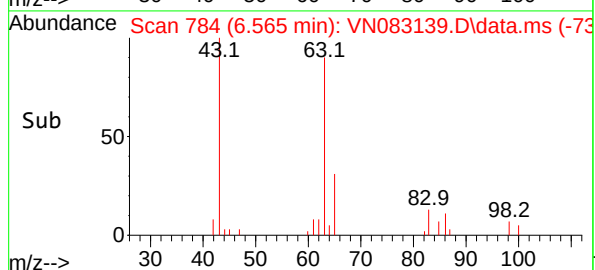
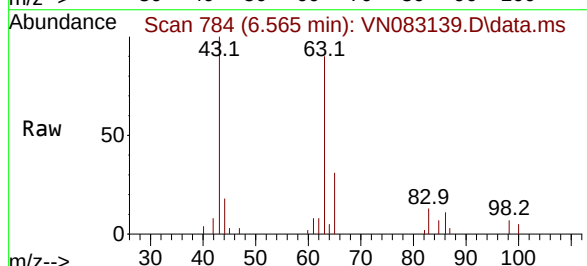
Manual Integrations
APPROVED

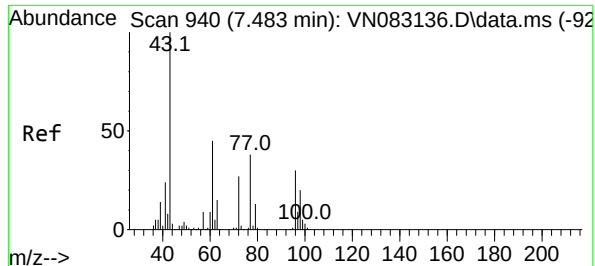
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#24
1,1-Dichloroethane
Concen: 5.091 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

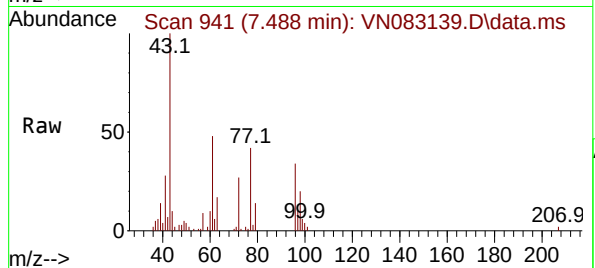
Tgt Ion: 63 Resp: 22058
Ion Ratio Lower Upper
63 100
98 7.3 3.3 9.9
100 5.0 2.0 6.0





#25
2-Butanone
Concen: 24.185 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

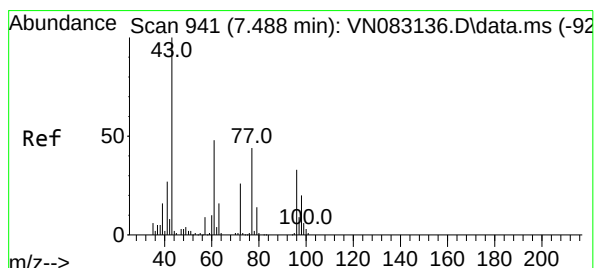
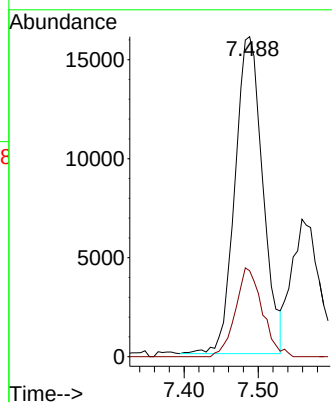
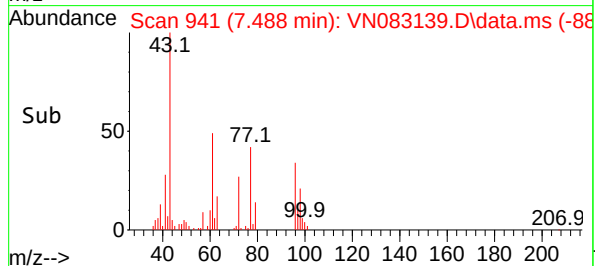
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 43 Resp: 41750
Ion Ratio Lower Upper
43 100
72 27.1 18.2 27.2

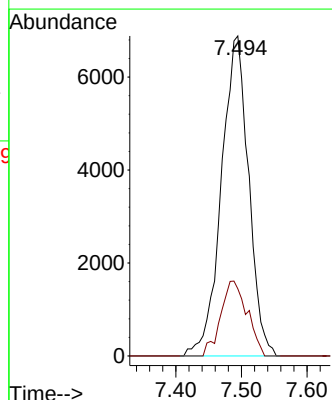
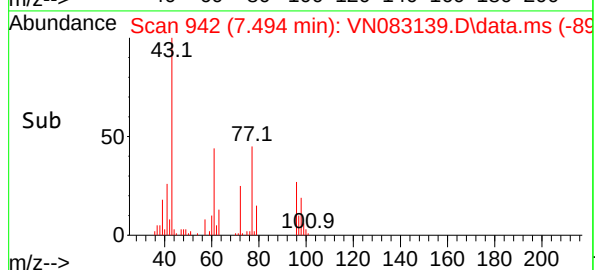
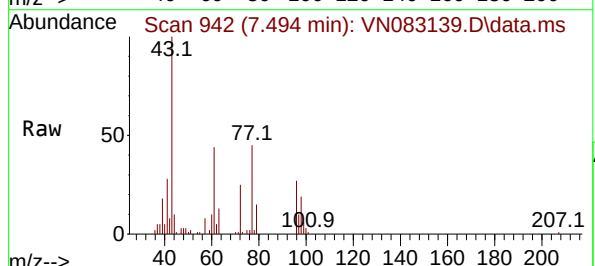
Manual Integrations
APPROVED

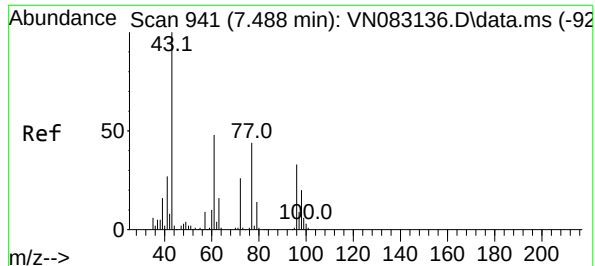
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#26
2,2-Dichloropropane
Concen: 4.937 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

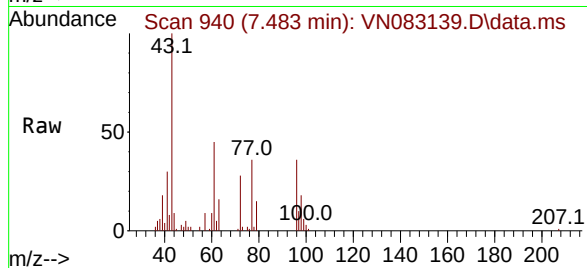
Tgt Ion: 77 Resp: 19864
Ion Ratio Lower Upper
77 100
97 22.7 10.3 30.9





#27
cis-1,2-Dichloroethene
Concen: 4.967 ug/l
RT: 7.483 min Scan# 941
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

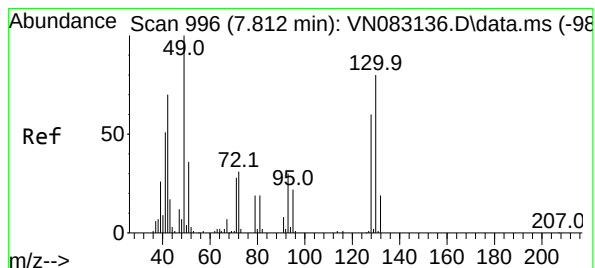
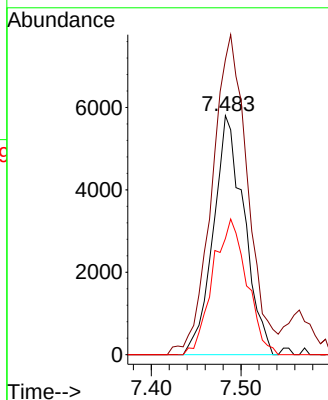
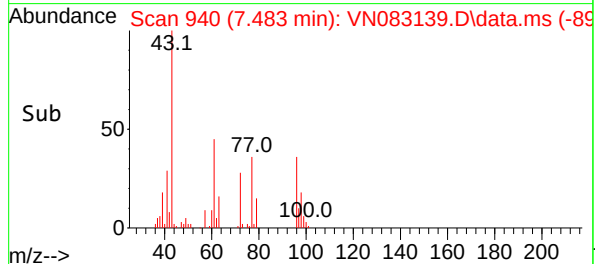
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 96 Resp: 1386
Ion Ratio Lower Upper
96 100
61 154.7 0.0 329.6
98 62.6 0.0 128.6

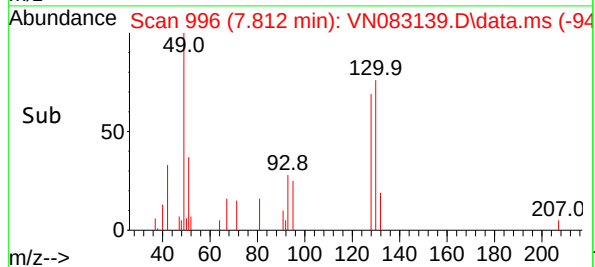
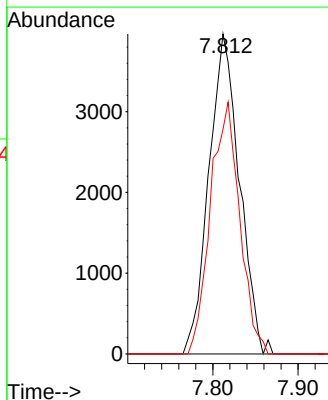
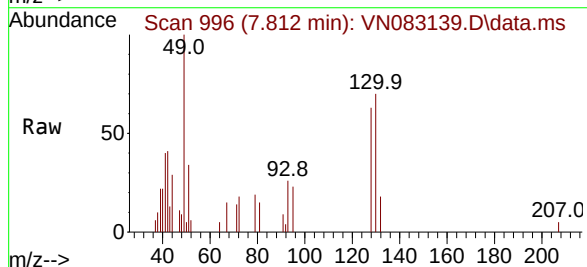
Manual Integrations
APPROVED

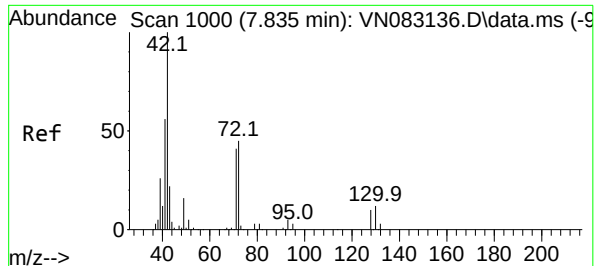
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#28
Bromochloromethane
Concen: 5.577 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 49 Resp: 9874
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.8
130 75.2 50.5 75.7





#29

Tetrahydrofuran

Concen: 25.324 ug/l

RT: 7.841 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

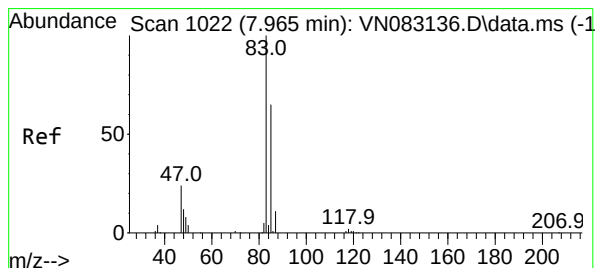
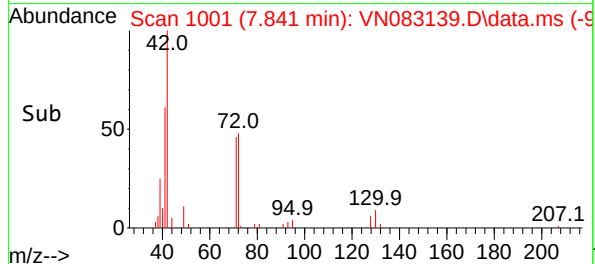
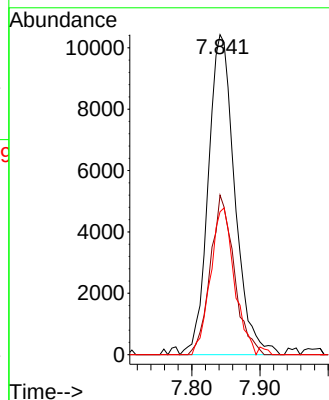
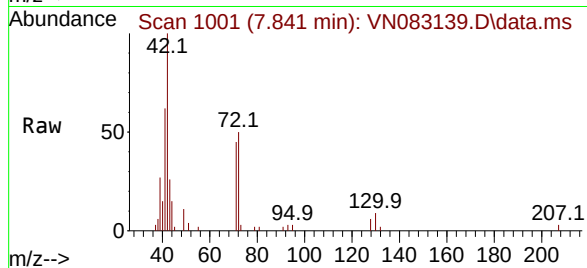
Tgt Ion:	42	Resp:	28260
Ion	Ratio	Lower	Upper
42	100		
72	44.9	30.0	45.0
71	41.3	28.3	42.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#30

Chloroform

Concen: 5.032 ug/l

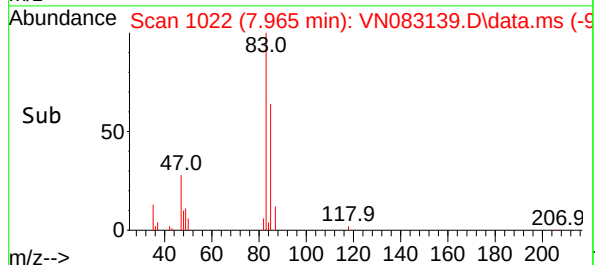
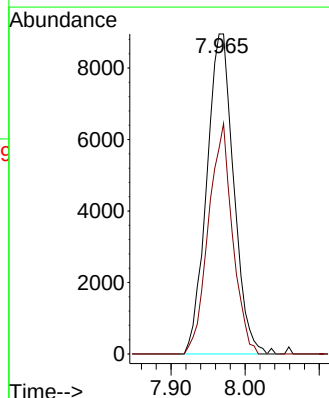
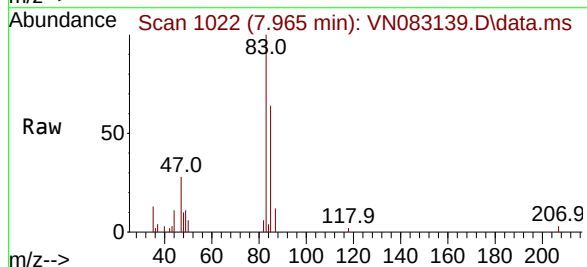
RT: 7.965 min Scan# 1022

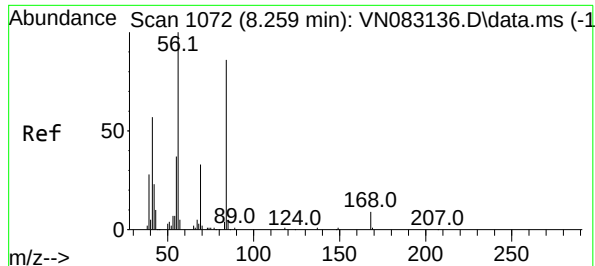
Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Tgt Ion:	83	Resp:	22650
Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.9	76.3





#31

Cyclohexane

Concen: 5.871 ug/l

RT: 8.265 min Scan# 1072

Delta R.T. 0.006 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

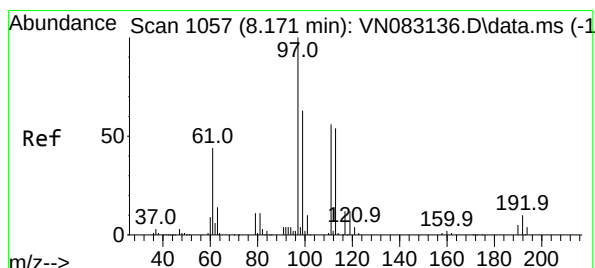
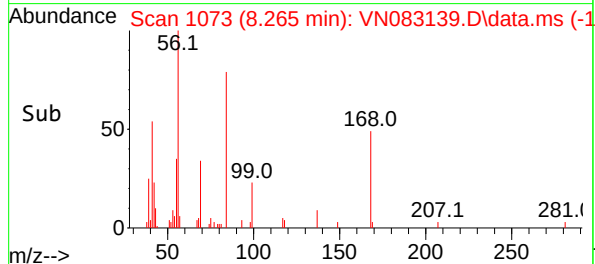
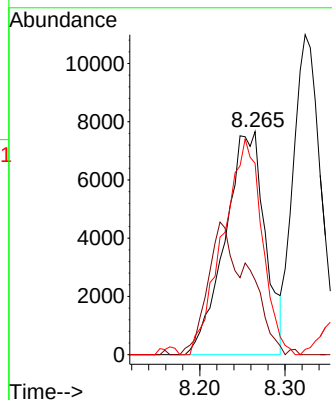
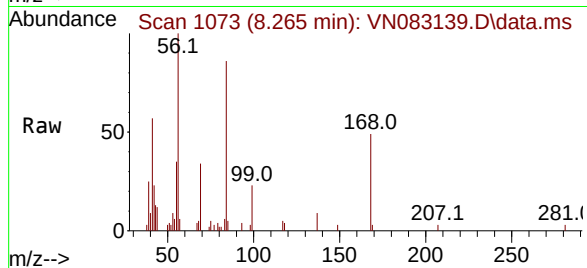
VSTDICC005

Tgt Ion:	56	Resp:	2499
Ion	Ratio	Lower	Upper
56	100		
69	33.5	24.5	36.7
84	85.8	66.0	99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#32

1,1,1-Trichloroethane

Concen: 5.123 ug/l

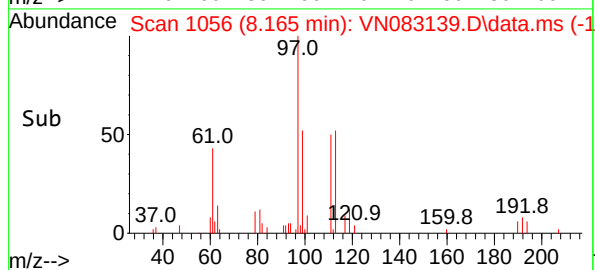
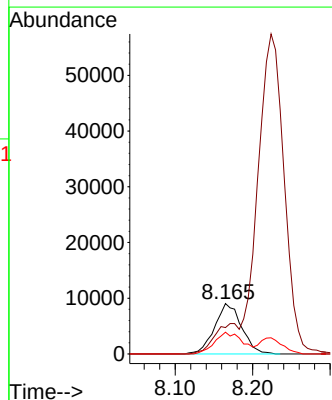
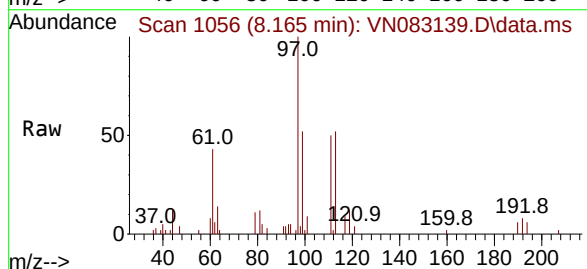
RT: 8.165 min Scan# 1056

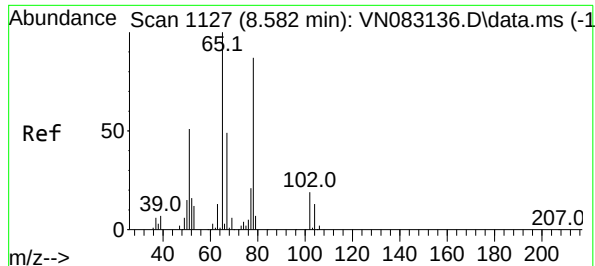
Delta R.T. -0.006 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Tgt Ion:	97	Resp:	21825
Ion	Ratio	Lower	Upper
97	100		
99	0.0	52.0	78.0
61	44.1	42.1	63.1





#33

1,2-Dichloroethane-d4

Concen: 5.522 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 65 Resp: 1586

Ion Ratio Lower Upper

65 100

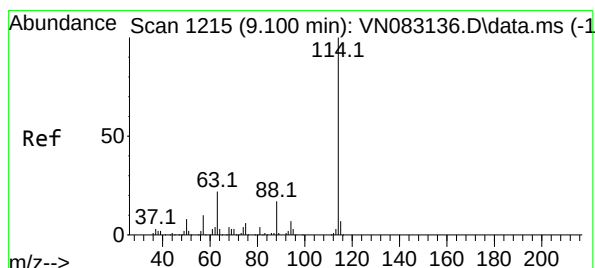
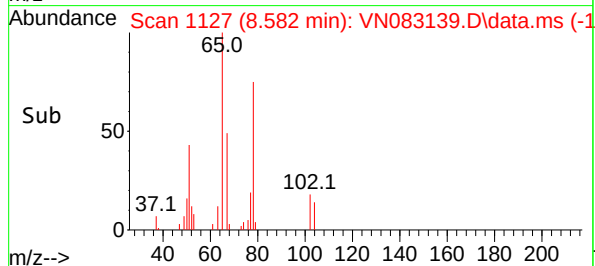
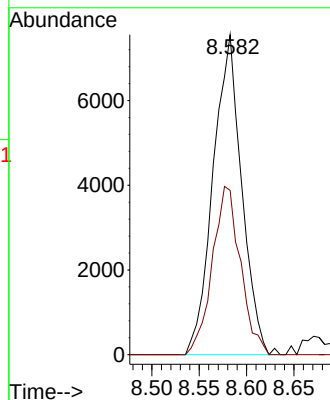
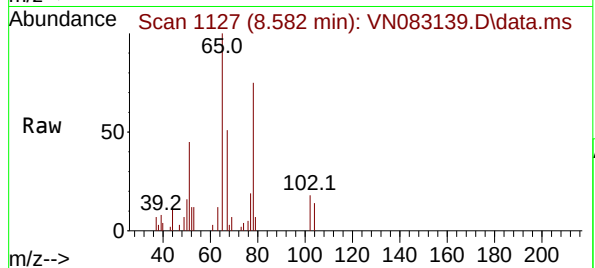
67 51.8 0.0 104.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

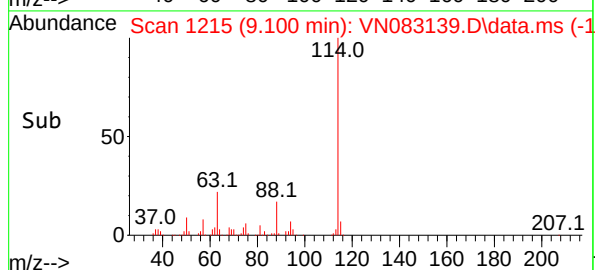
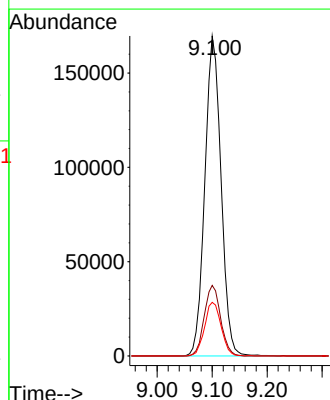
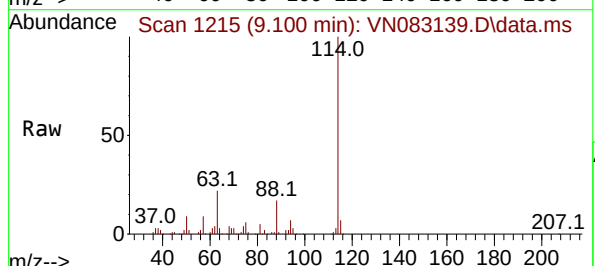
Tgt Ion:114 Resp: 347562

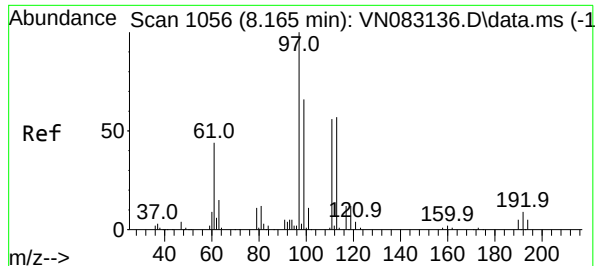
Ion Ratio Lower Upper

114 100

63 22.1 0.0 44.6

88 16.8 0.0 31.4





#35

Dibromofluoromethane

Concen: 5.549 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.006 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:113 Resp: 12039

Ion Ratio Lower Upper

113 100

111 101.4 82.4 123.6

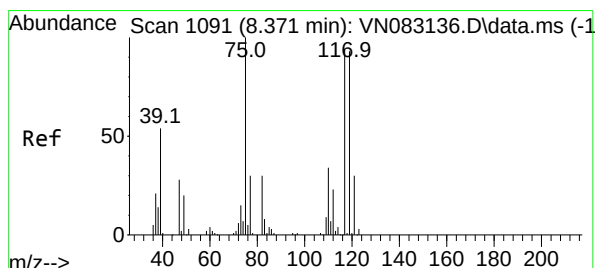
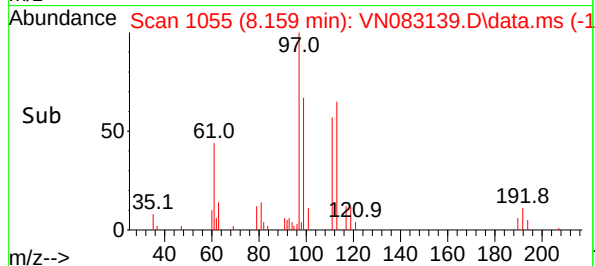
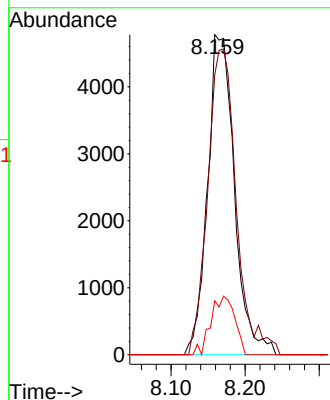
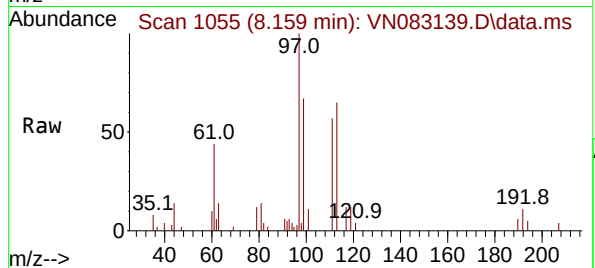
192 16.2 14.9 22.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#36

1,1-Dichloropropene

Concen: 4.907 ug/l

RT: 8.377 min Scan# 1092

Delta R.T. 0.006 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

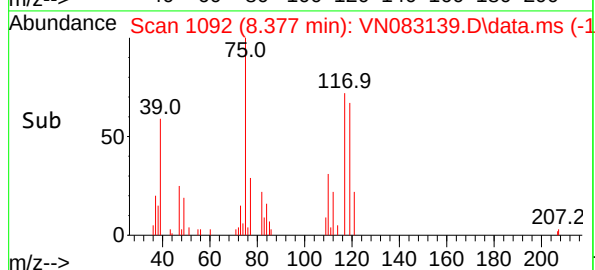
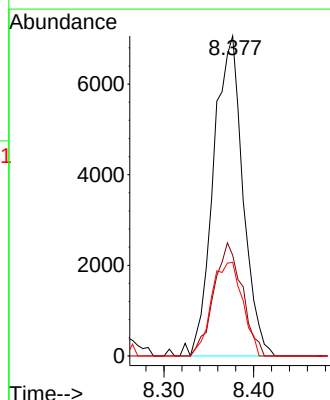
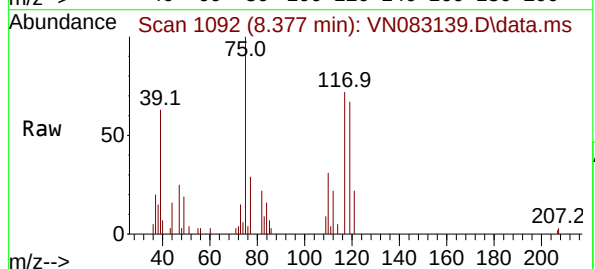
Tgt Ion: 75 Resp: 16102

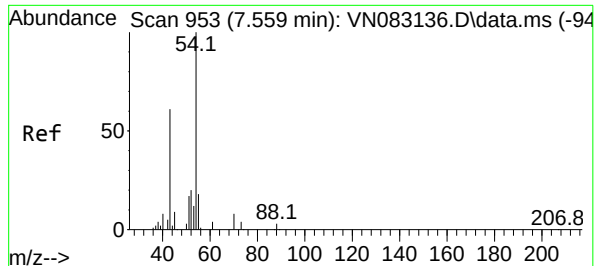
Ion Ratio Lower Upper

75 100

110 34.1 16.3 48.9

77 30.8 24.6 37.0





#37

Ethyl Acetate

Concen: 4.874 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

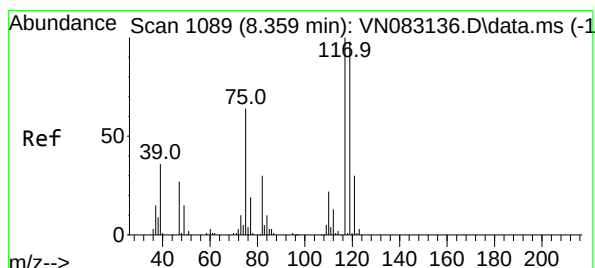
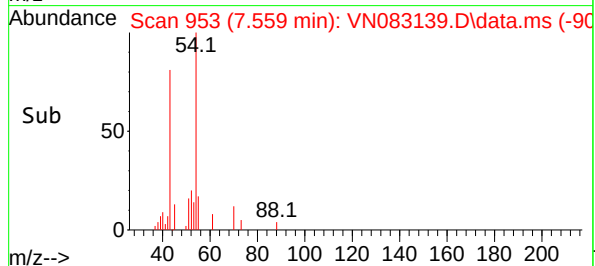
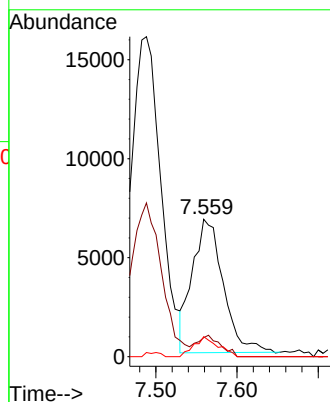
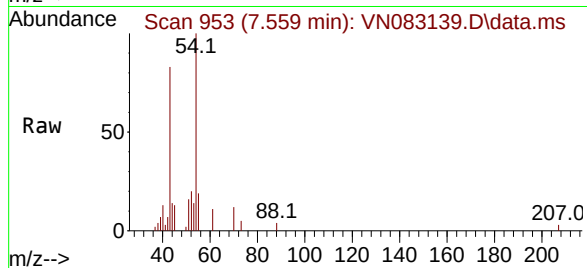
Tgt Ion:	43	Resp:	1790
Ion	Ratio	Lower	Upper
43	100		
61	12.1	9.3	13.9
70	11.6	7.0	10.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#38

Carbon Tetrachloride

Concen: 5.067 ug/l

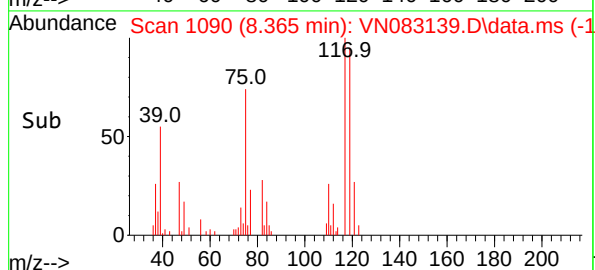
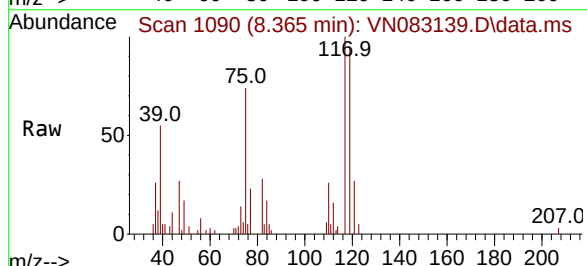
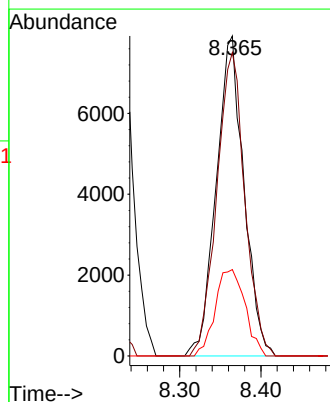
RT: 8.365 min Scan# 1090

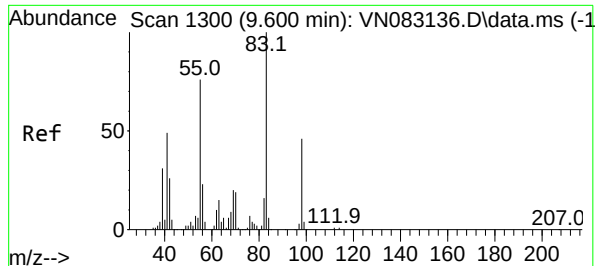
Delta R.T. 0.006 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Tgt Ion:	117	Resp:	18728
Ion	Ratio	Lower	Upper
117	100		
119	94.8	74.9	112.3
121	27.0	24.3	36.5





#39

Methylcyclohexane

Concen: 4.957 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

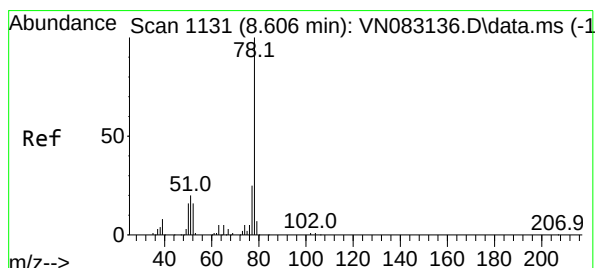
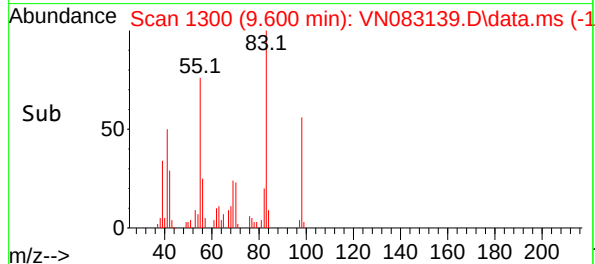
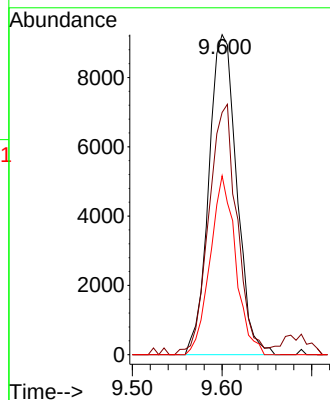
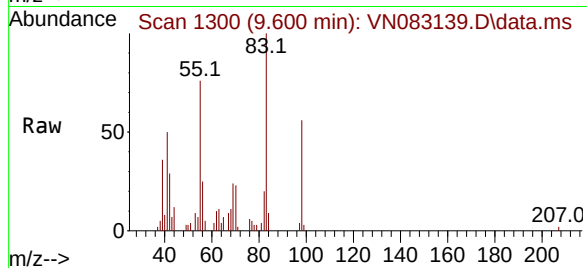
Tgt Ion:	83	Resp:	1998
Ion	Ratio	Lower	Upper
83	100		
55	74.1	66.4	99.6
98	55.9	40.7	61.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#40

Benzene

Concen: 4.988 ug/l

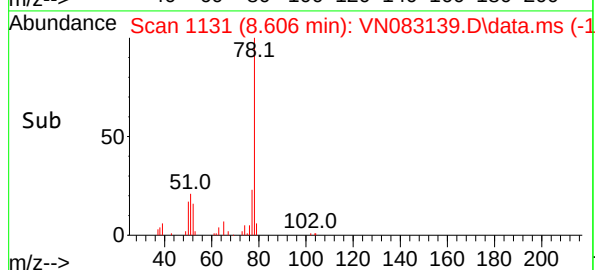
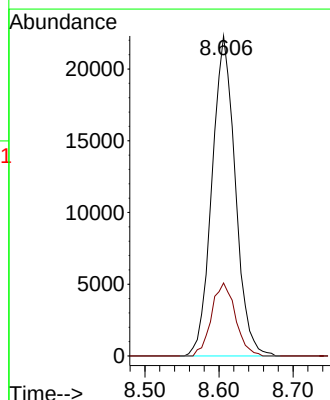
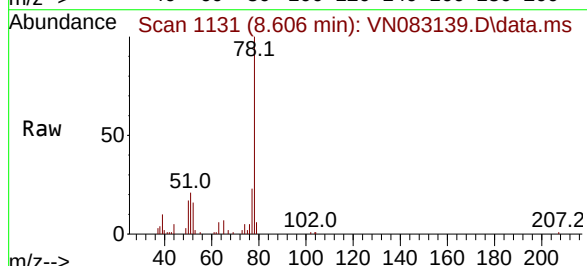
RT: 8.606 min Scan# 1131

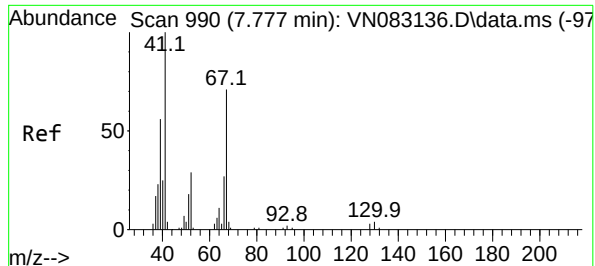
Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Tgt Ion:	78	Resp:	48765
Ion	Ratio	Lower	Upper
78	100		
77	22.8	19.0	28.4





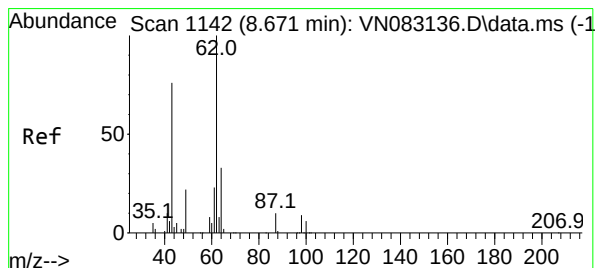
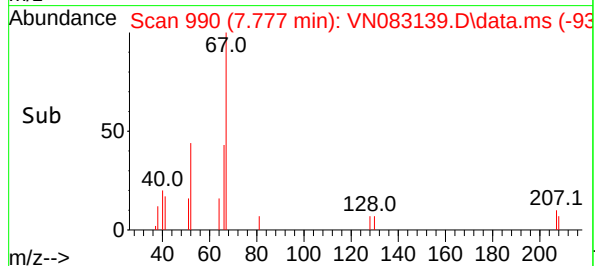
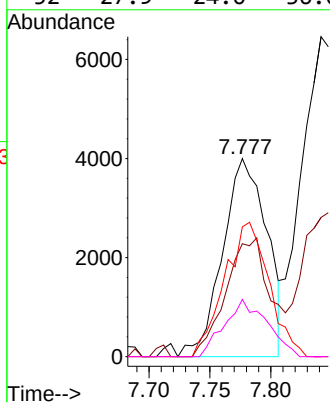
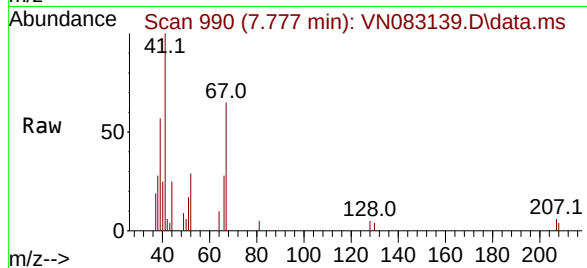
#41
Methacrylonitrile
Concen: 4.828 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 41 Resp: 1008
Ion Ratio Lower Upper
41 100
39 60.2 45.5 68.3
67 68.2 50.5 75.7
52 27.9 24.0 36.0

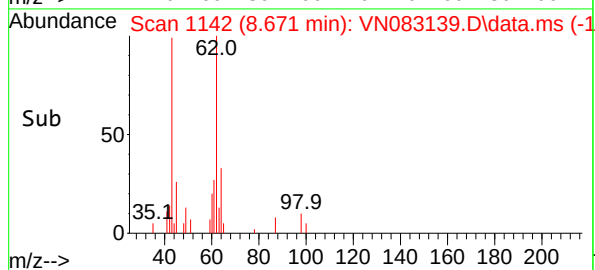
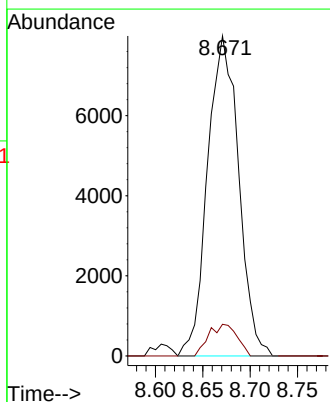
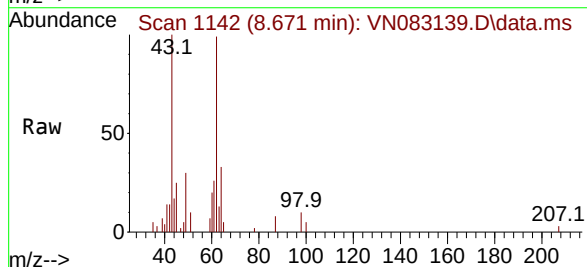
Manual Integrations
APPROVED

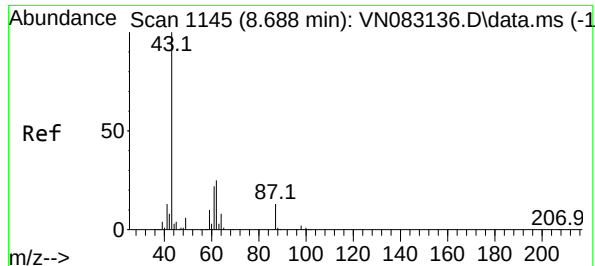
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#42
1,2-Dichloroethane
Concen: 5.116 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 62 Resp: 18219
Ion Ratio Lower Upper
62 100
98 9.0 0.0 15.8





#43

Isopropyl Acetate

Concen: 5.438 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.006 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

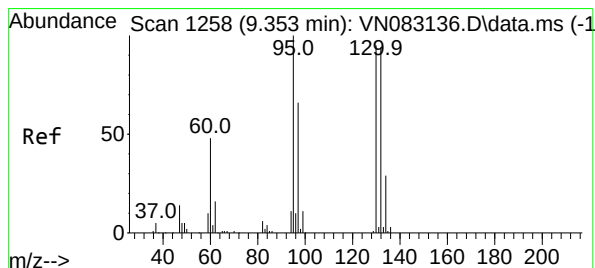
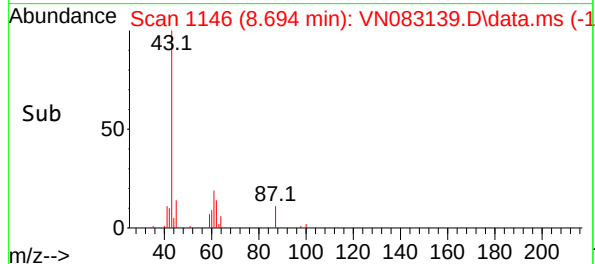
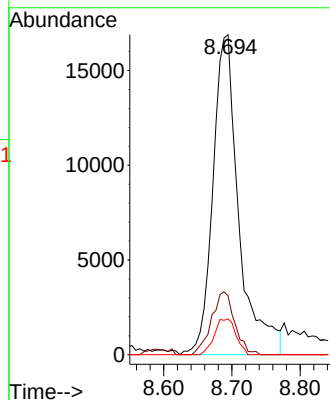
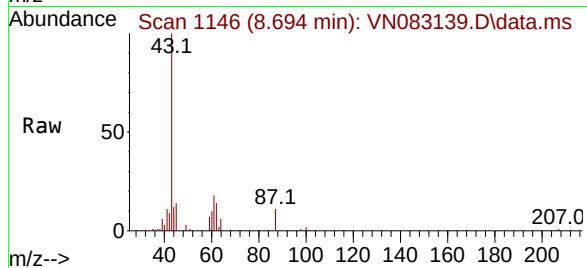
Tgt Ion:	43	Resp:	4481
Ion	Ratio	Lower	Upper
43	100		
61	17.5	17.8	26.6
87	9.2	8.2	12.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#44

Trichloroethene

Concen: 5.084 ug/l

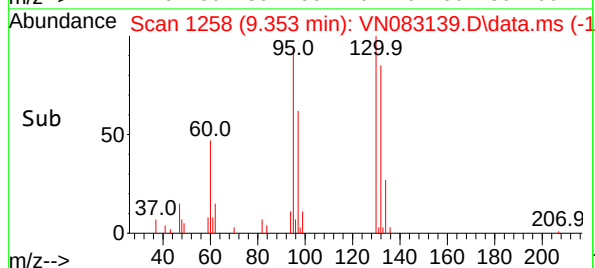
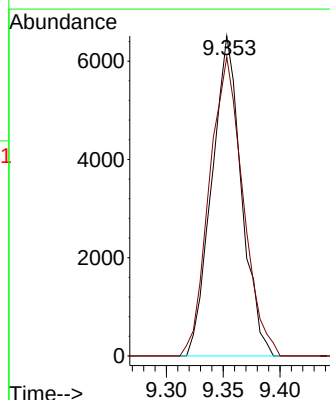
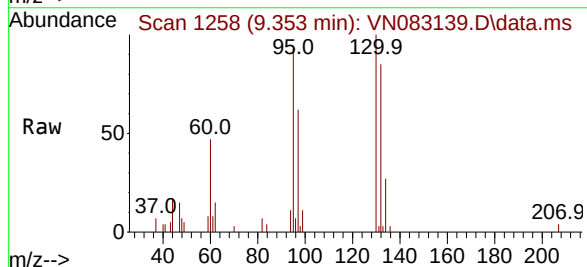
RT: 9.353 min Scan# 1258

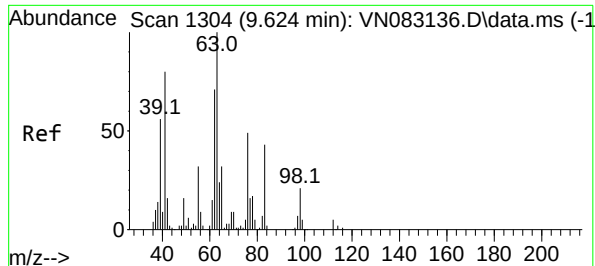
Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Tgt Ion:	130	Resp:	11830
Ion	Ratio	Lower	Upper
130	100		
95	93.4	0.0	197.8





#45

1,2-Dichloropropane

Concen: 4.878 ug/l

RT: 9.624 min Scan# 11320

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 63 Resp: 11320

Ion Ratio Lower Upper

63 100

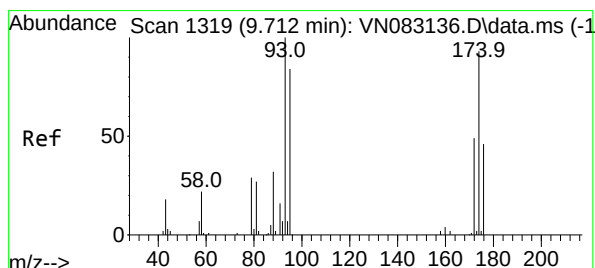
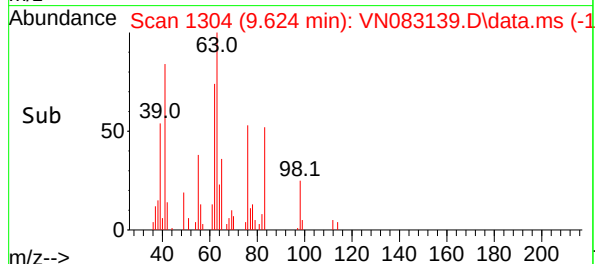
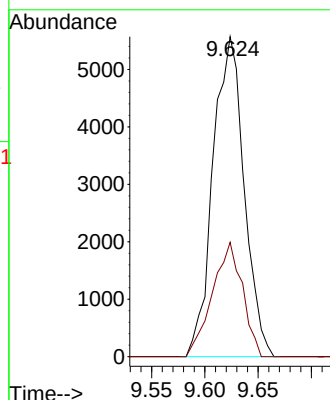
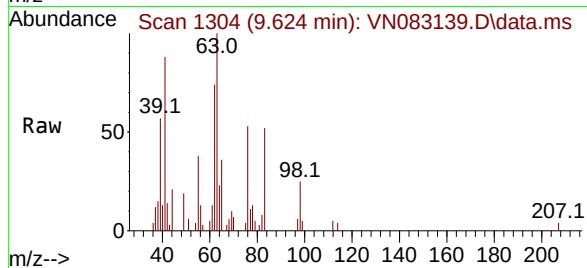
65 35.7 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#46

Dibromomethane

Concen: 5.079 ug/l

RT: 9.712 min Scan# 1319

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

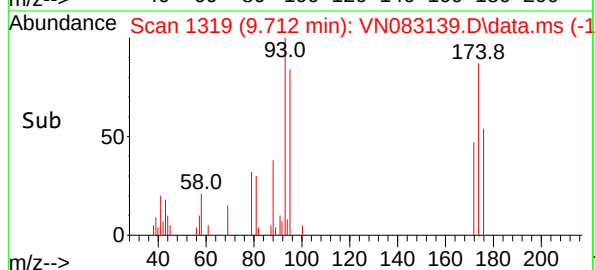
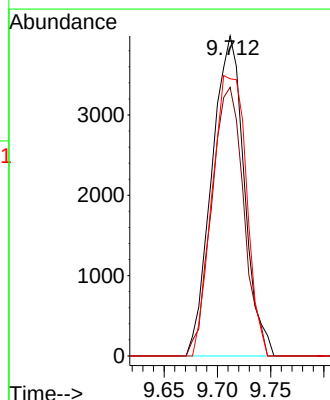
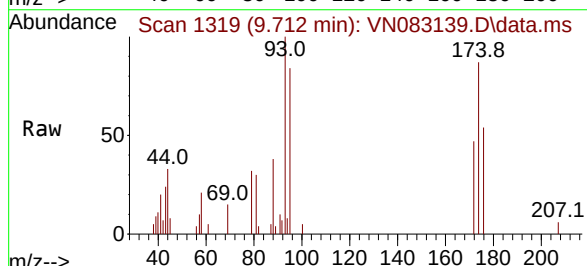
Tgt Ion: 93 Resp: 8436

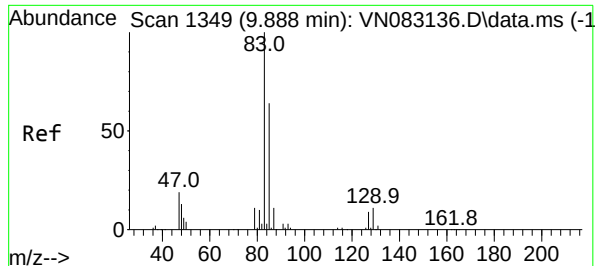
Ion Ratio Lower Upper

93 100

95 82.9 65.8 98.6

174 92.2 71.7 107.5





#47

Bromodichloromethane

Concen: 5.040 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

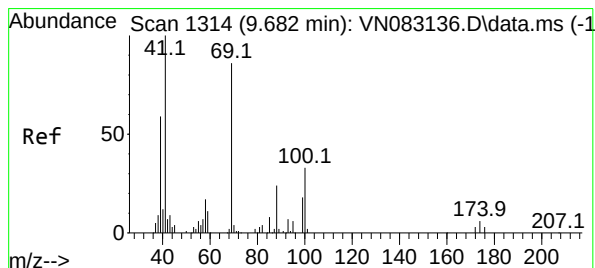
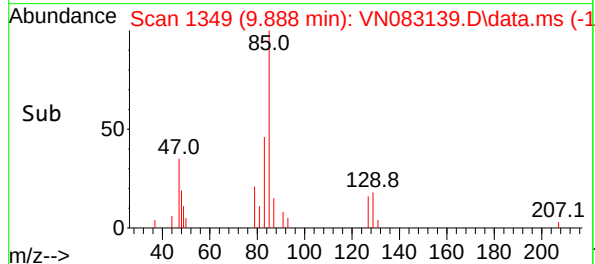
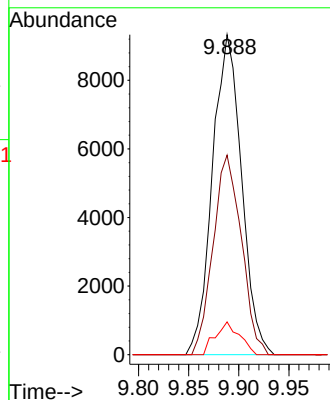
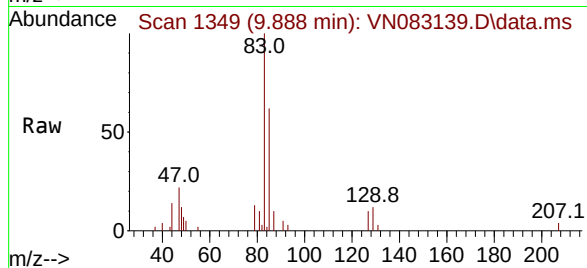
Tgt Ion:	83	Resp:	1879
Ion	Ratio	Lower	Upper
83	100		
85	62.3	51.1	76.7
127	10.3	7.2	10.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#48

Methyl methacrylate

Concen: 4.840 ug/l

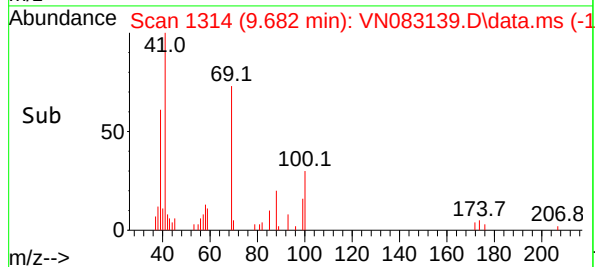
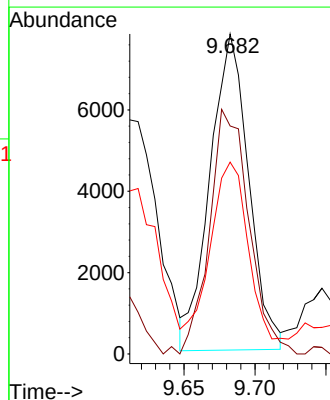
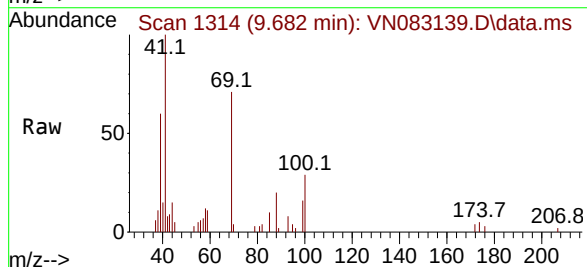
RT: 9.682 min Scan# 1314

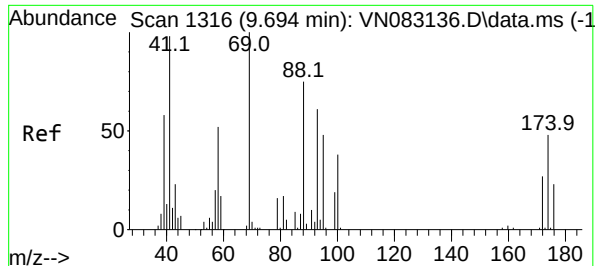
Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Tgt Ion:	41	Resp:	14704
Ion	Ratio	Lower	Upper
41	100		
69	79.2	56.3	84.5
39	63.9	50.3	75.5





#49

1,4-Dioxane

Concen: 95.593 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 88 Resp: 5239

Ion Ratio Lower Upper

88 100

43 0.0 27.8 41.8

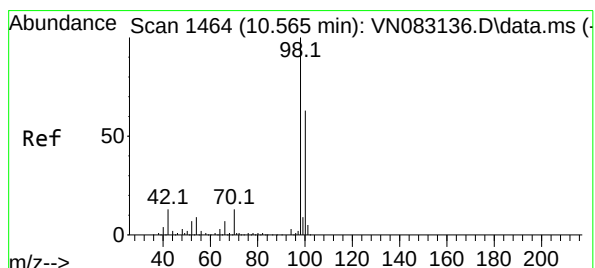
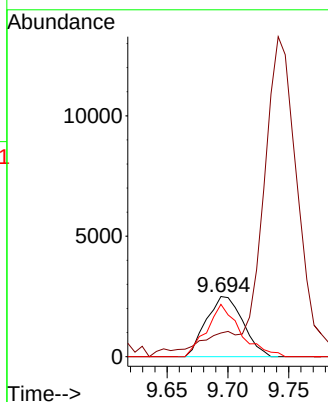
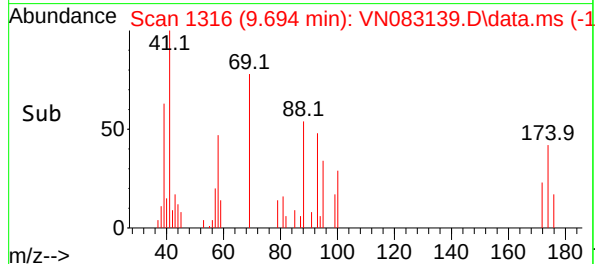
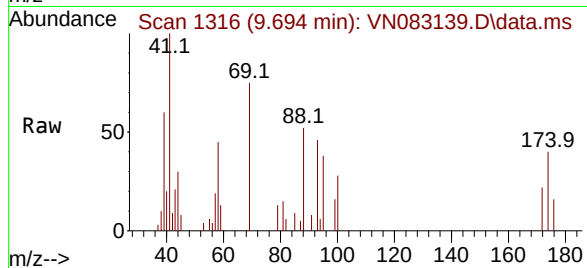
58 79.3 59.4 89.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#50

Toluene-d8

Concen: 5.326 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN083139.D

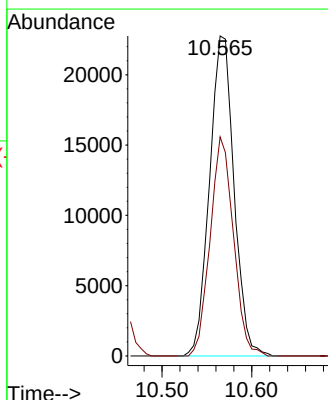
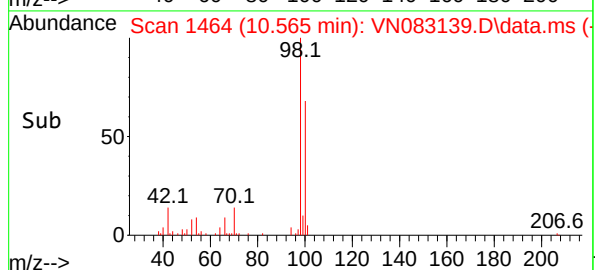
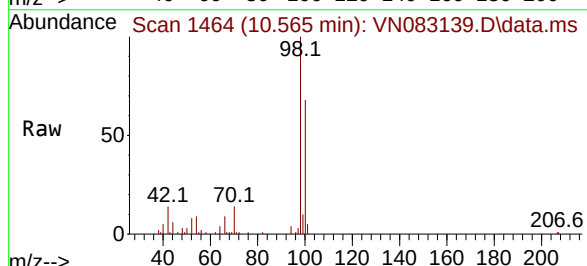
Acq: 07 Aug 2024 12:10

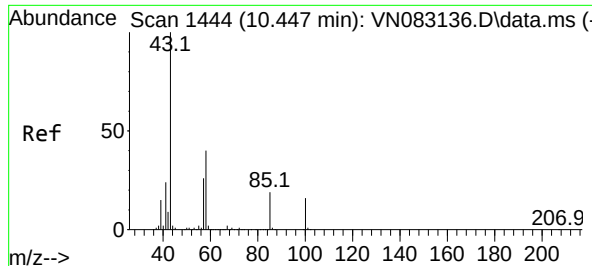
Tgt Ion: 98 Resp: 43104

Ion Ratio Lower Upper

98 100

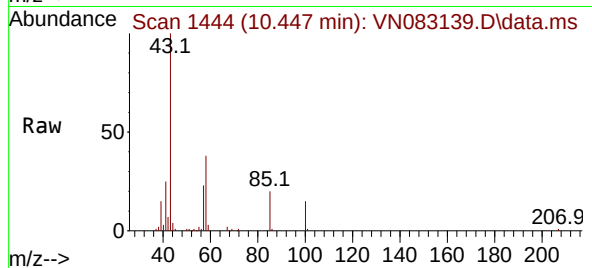
100 65.2 51.5 77.3





#51
4-Methyl-2-Pentanone
Concen: 24.946 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

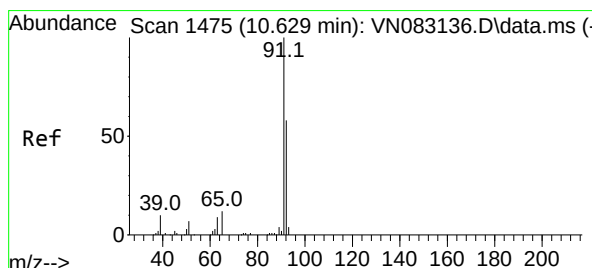
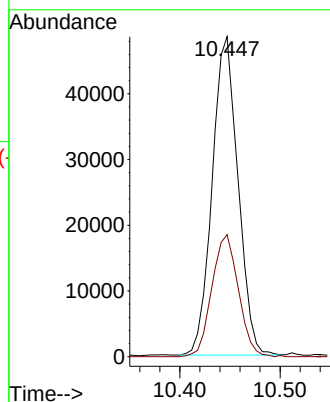
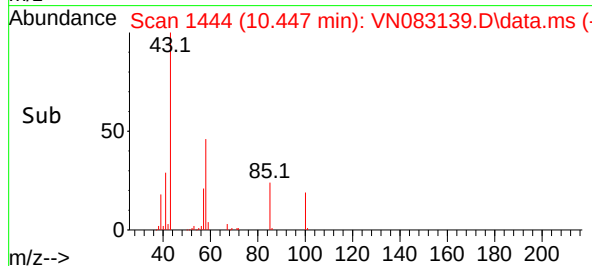
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 43 Resp: 86679
Ion Ratio Lower Upper
43 100
58 39.3 28.2 42.4

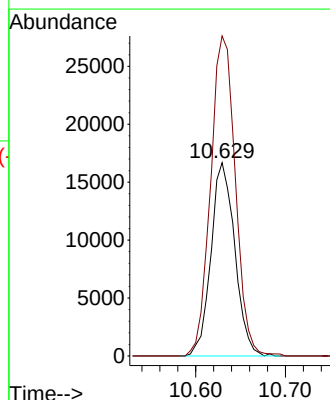
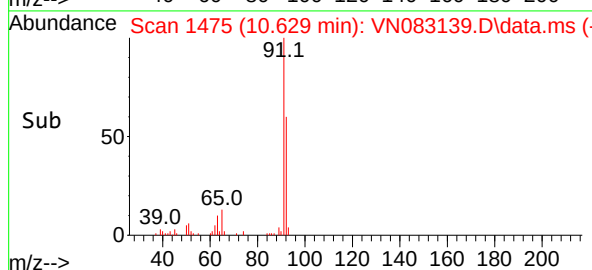
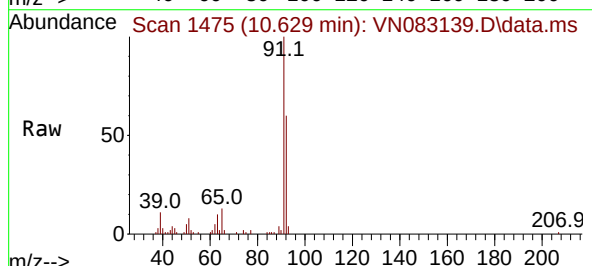
Manual Integrations
APPROVED

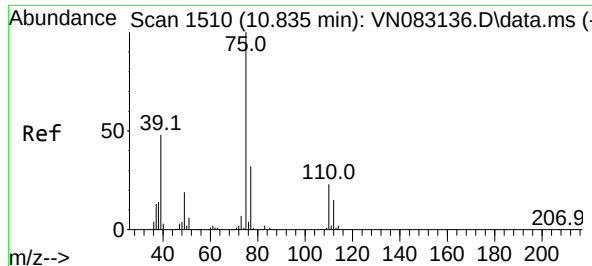
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#52
Toluene
Concen: 4.981 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

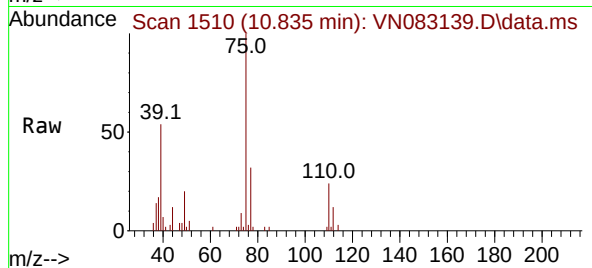
Tgt Ion: 92 Resp: 30769
Ion Ratio Lower Upper
92 100
91 172.3 139.4 209.0





#53
t-1,3-Dichloropropene
Concen: 4.950 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

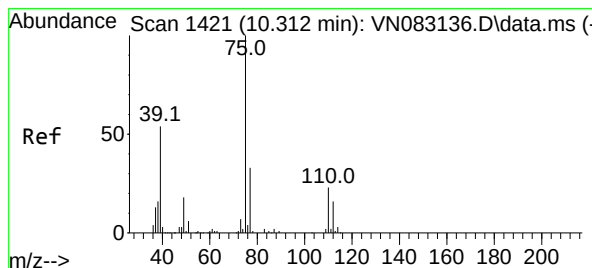
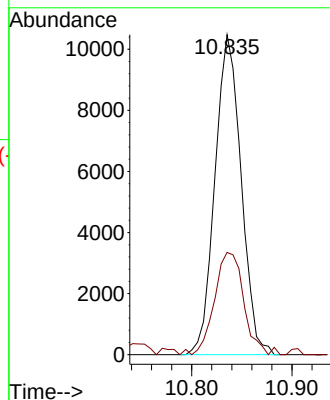
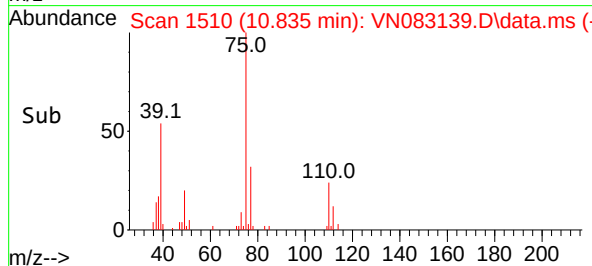
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion: 75 Resp: 18964
Ion Ratio Lower Upper
75 100
77 32.0 25.7 38.5

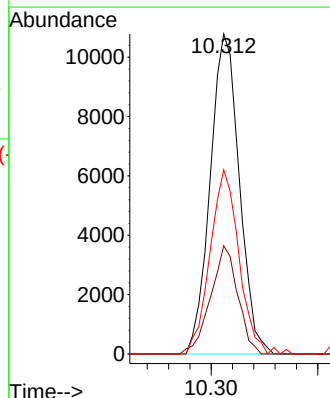
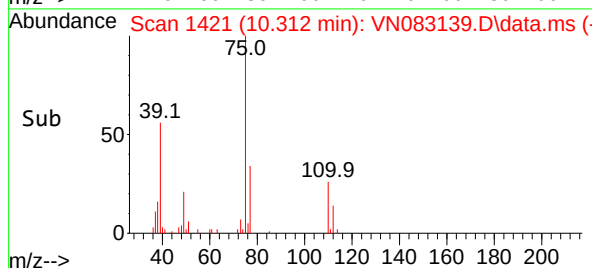
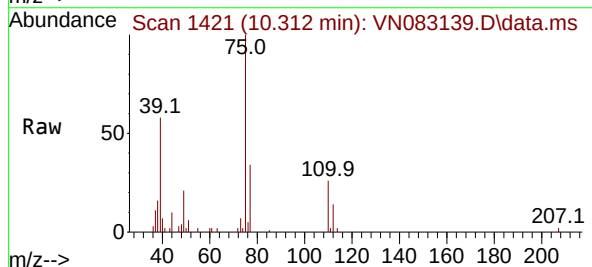
Manual Integrations
APPROVED

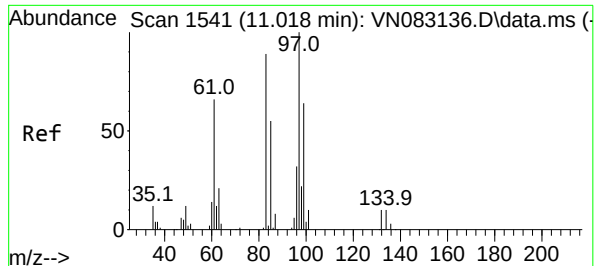
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#54
cis-1,3-Dichloropropene
Concen: 5.014 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

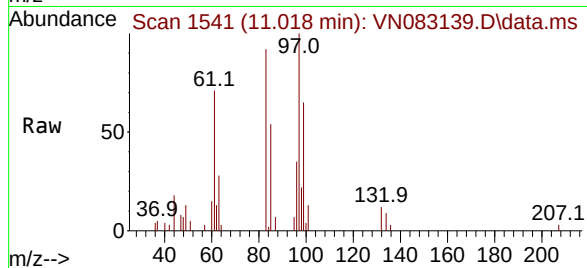
Tgt Ion: 75 Resp: 20431
Ion Ratio Lower Upper
75 100
77 33.8 24.3 36.5
39 57.5 50.5 75.7





#55
1,1,2-Trichloroethane
Concen: 4.930 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

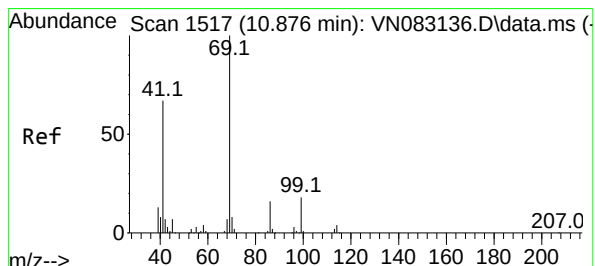
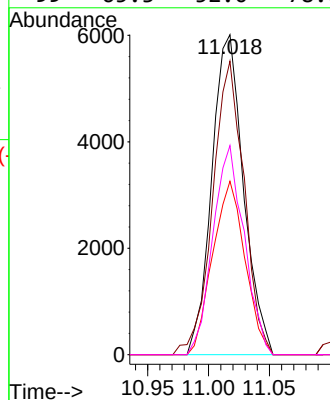
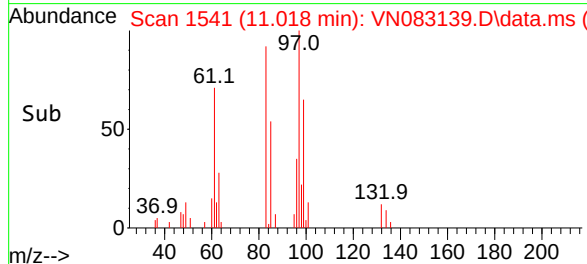
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion	Ratio	Lower	Upper
97	100		
83	91.7	71.4	107.0
85	54.2	45.8	68.6
99	65.3	52.0	78.0

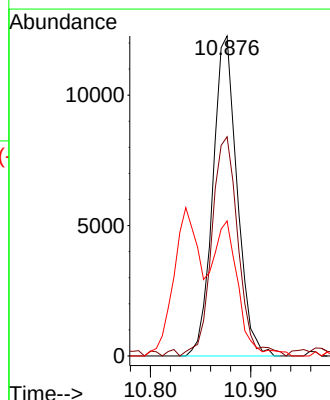
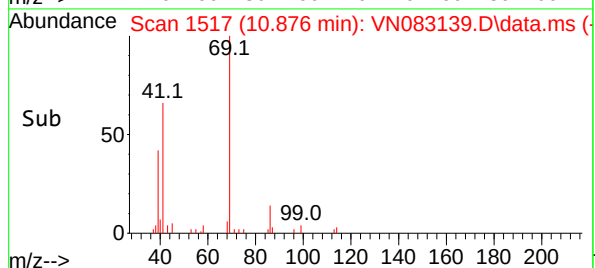
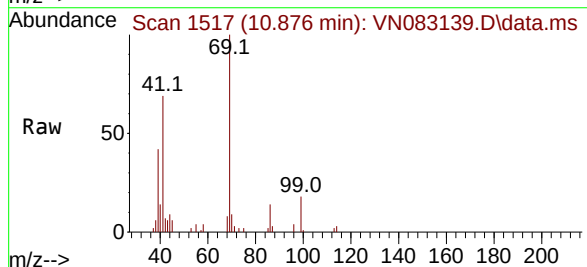
Manual Integrations
APPROVED

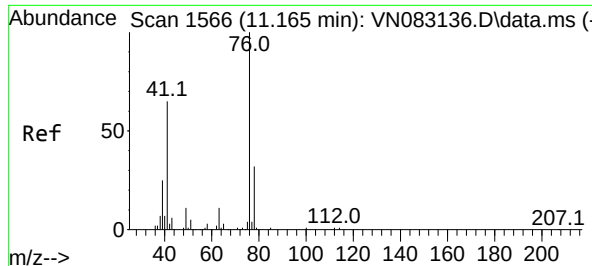
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#56
Ethyl methacrylate
Concen: 4.951 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion	Ratio	Lower	Upper
69	100		
41	74.3	63.4	95.2
39	39.8	37.4	56.0





#57

1,3-Dichloropropane

Concen: 4.799 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 76 Resp: 18934

Ion Ratio Lower Upper

76 100

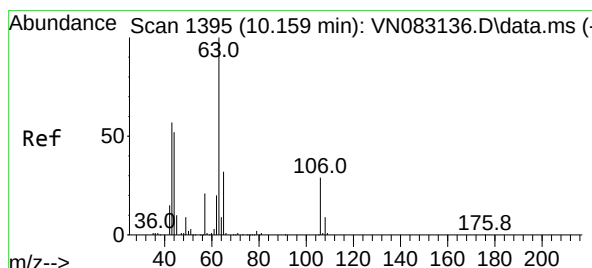
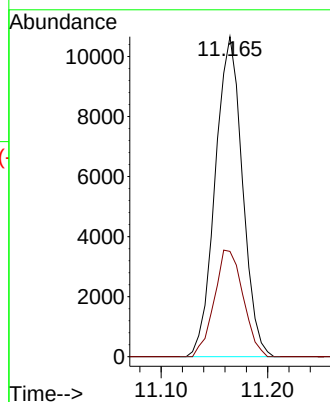
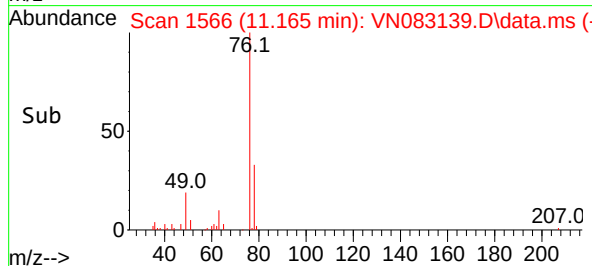
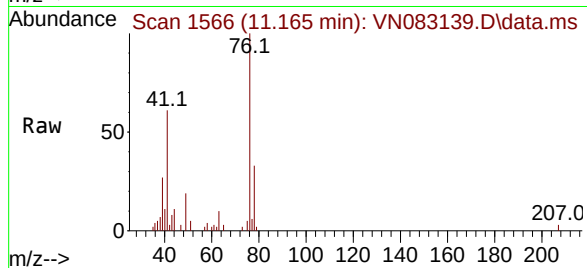
78 35.3 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#58

2-Chloroethyl Vinyl ether

Concen: 24.676 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN083139.D

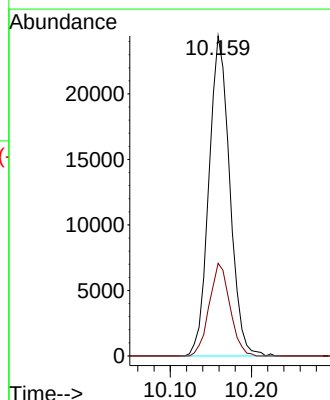
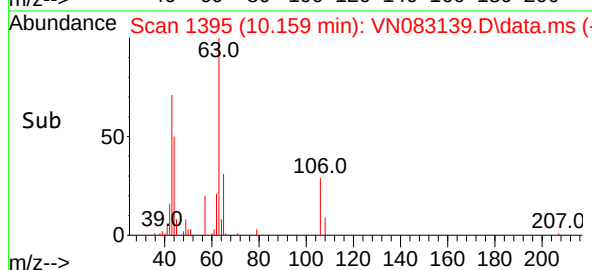
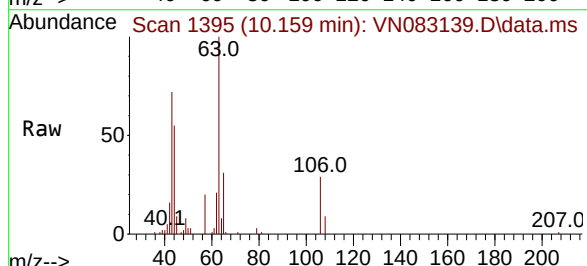
Acq: 07 Aug 2024 12:10

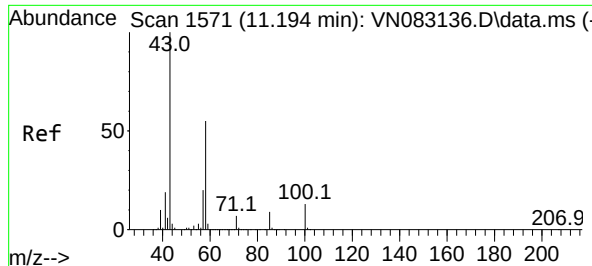
Tgt Ion: 63 Resp: 43528

Ion Ratio Lower Upper

63 100

106 28.8 21.4 32.0





#59

2-Hexanone

Concen: 24.870 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 66854

Ion Ratio Lower Upper

43 100

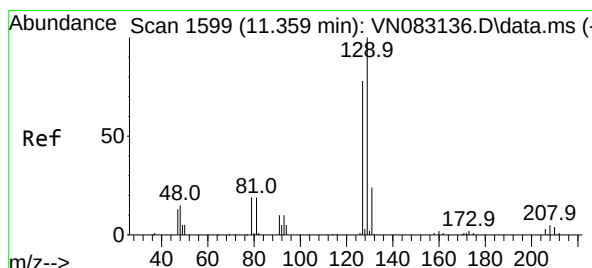
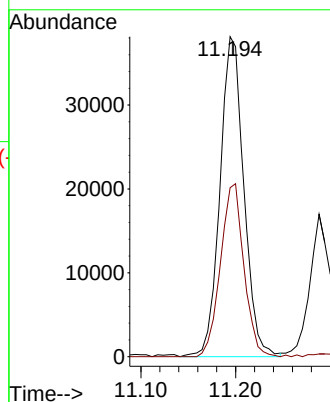
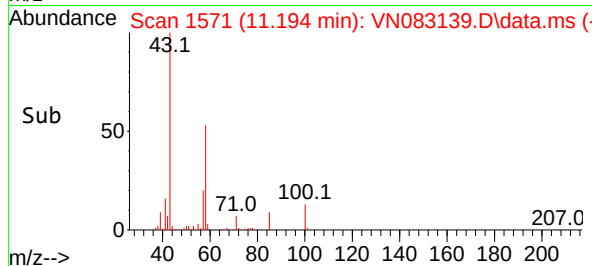
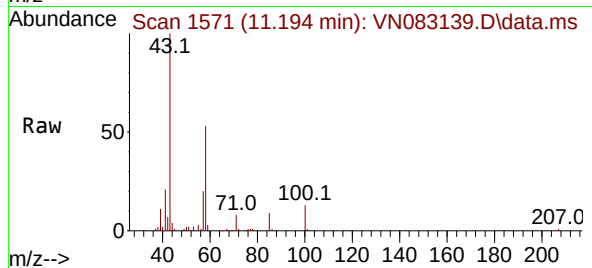
58 52.9 24.6 73.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#60

Dibromochloromethane

Concen: 4.972 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. 0.000 min

Lab File: VN083139.D

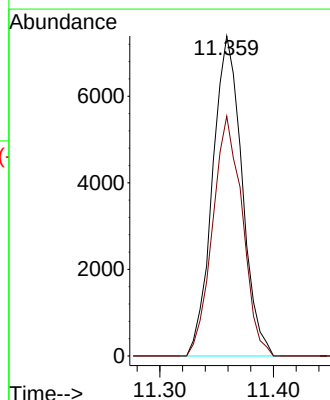
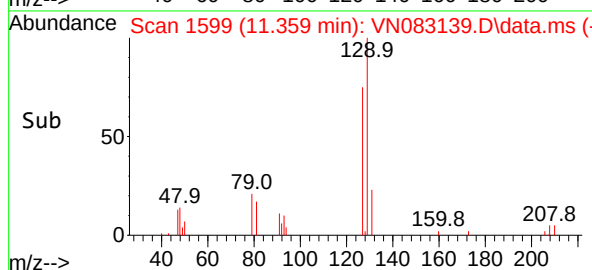
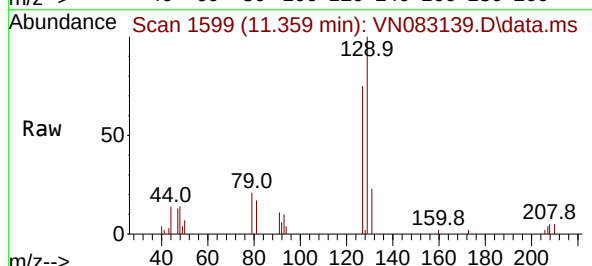
Acq: 07 Aug 2024 12:10

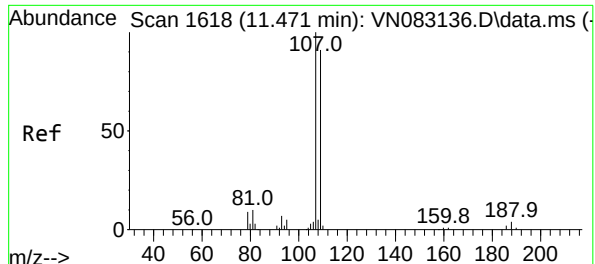
Tgt Ion:129 Resp: 13307

Ion Ratio Lower Upper

129 100

127 75.6 39.2 117.6





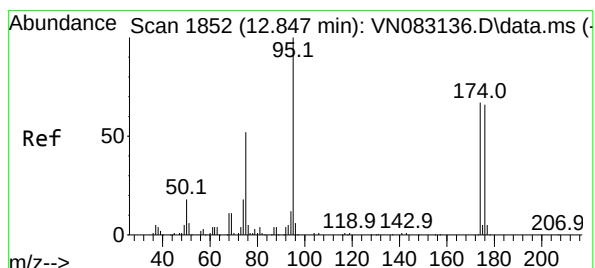
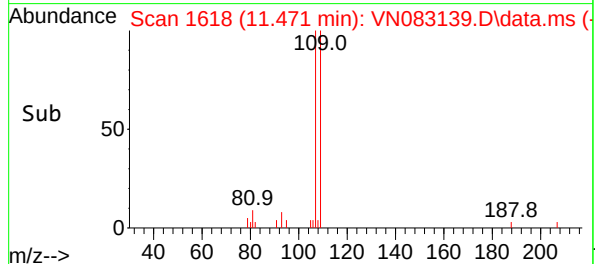
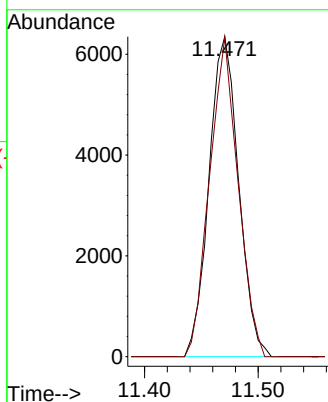
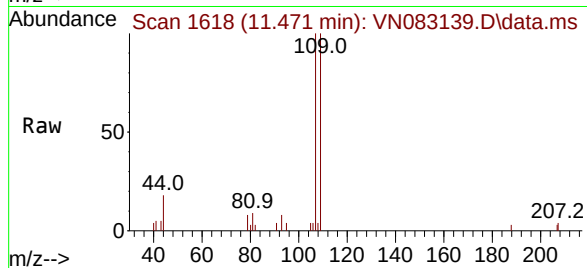
#61
1,2-Dibromoethane
Concen: 4.955 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:107 Resp: 1152
Ion Ratio Lower Upper
107 100
109 95.9 73.7 110.5

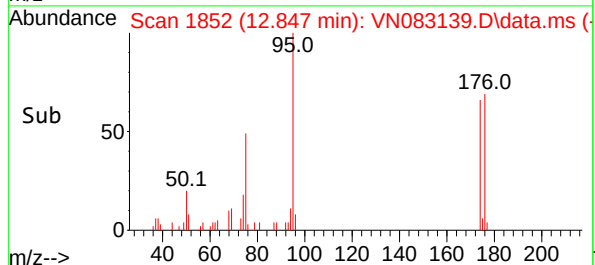
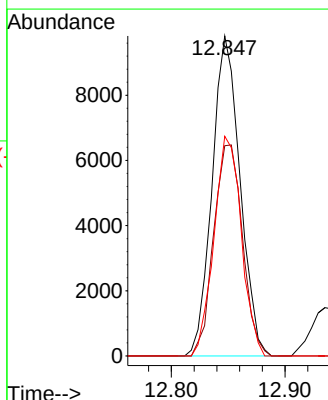
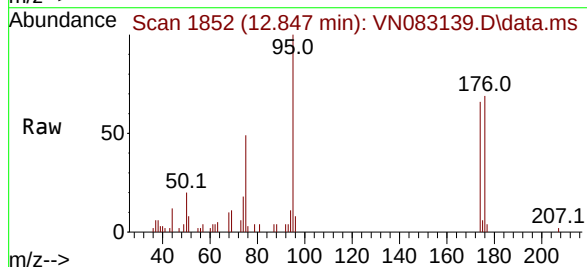
Manual Integrations
APPROVED

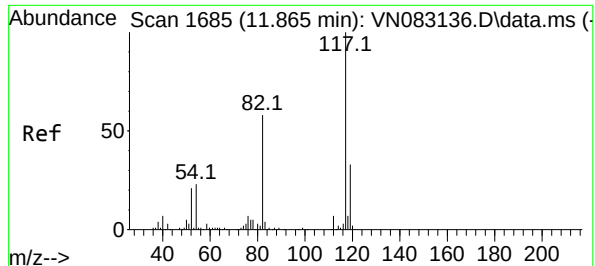
Reviewed By :John Carbone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#62
4-Bromofluorobenzene
Concen: 5.317 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

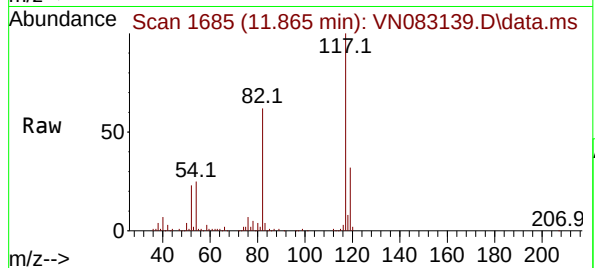
Tgt Ion: 95 Resp: 16776
Ion Ratio Lower Upper
95 100
174 68.1 0.0 159.2
176 67.0 0.0 147.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

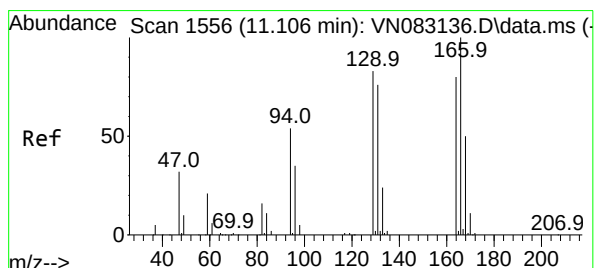
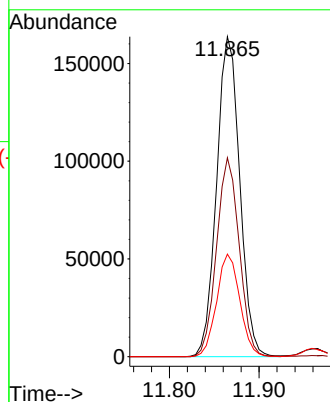
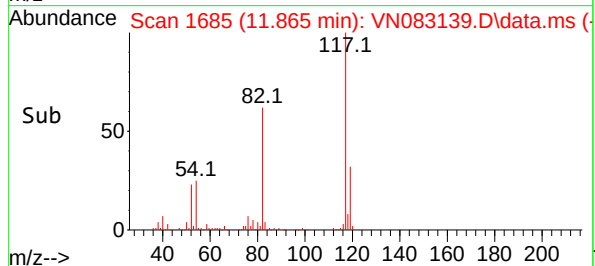
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion:117 Resp: 29351
Ion Ratio Lower Upper
117 100
82 62.1 47.5 71.3
119 32.0 25.6 38.4

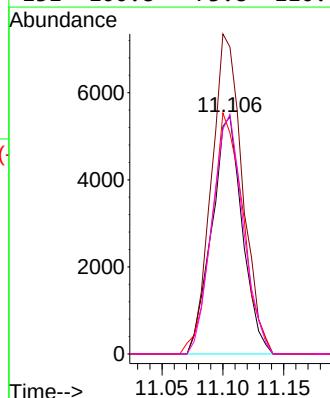
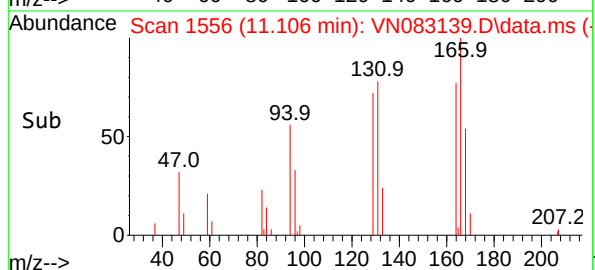
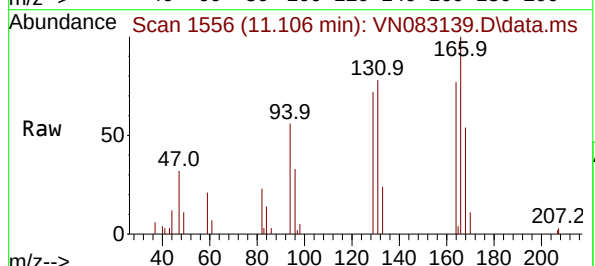
Manual Integrations
APPROVED

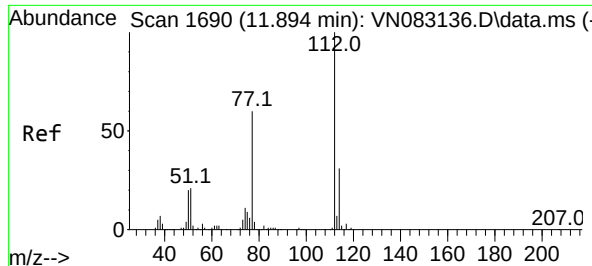
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#64
Tetrachloroethene
Concen: 4.896 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

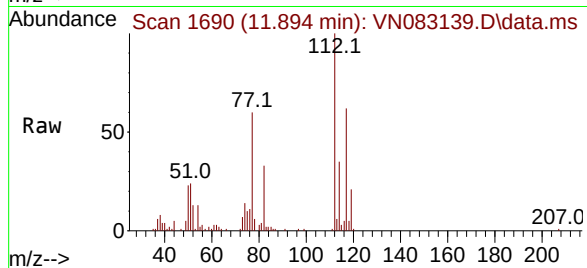
Tgt Ion:164 Resp: 9517
Ion Ratio Lower Upper
164 100
166 129.2 101.4 152.0
129 93.1 75.7 113.5
131 100.8 73.8 110.6





#65
Chlorobenzene
Concen: 4.951 ug/l
RT: 11.894 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

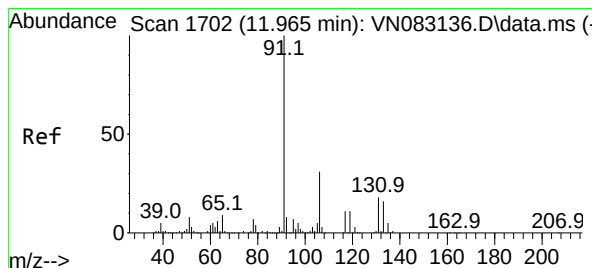
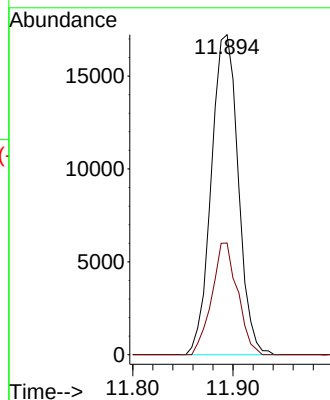
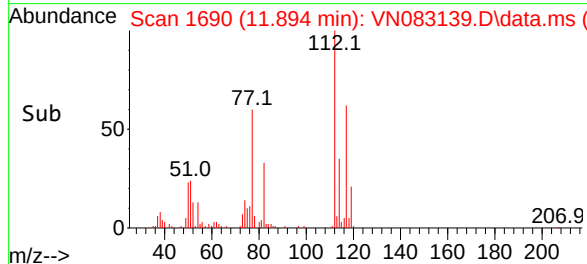
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



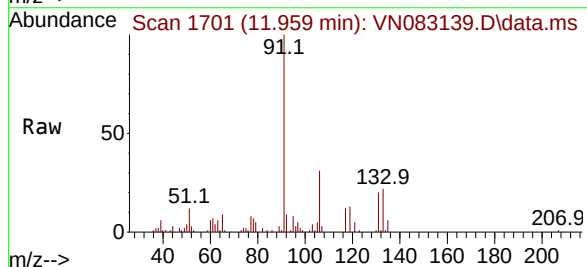
Tgt Ion:112 Resp: 32114
Ion Ratio Lower Upper
112 100
114 34.9 26.2 39.2

Manual Integrations
APPROVED

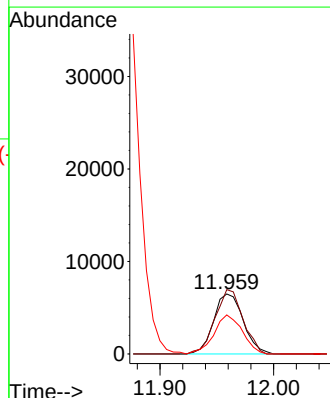
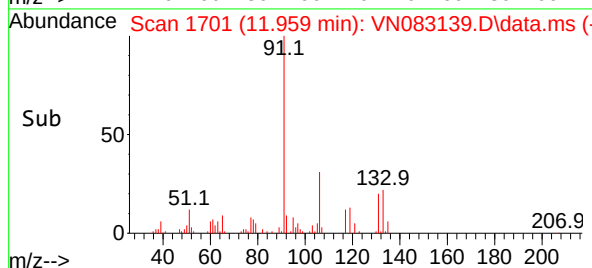
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

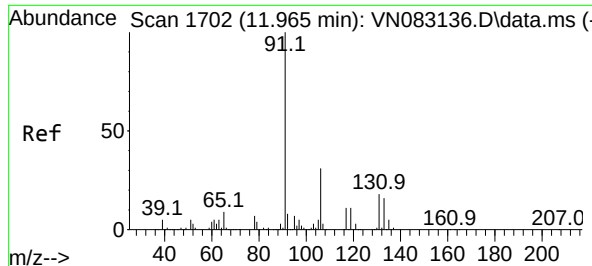


#66
1,1,1,2-Tetrachloroethane
Concen: 5.140 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10



Tgt Ion:131 Resp: 11758
Ion Ratio Lower Upper
131 100
133 101.6 47.3 142.0
119 62.2 32.5 97.4





#67

Ethyl Benzene

Concen: 5.013 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 59648

Ion Ratio Lower Upper

91 100

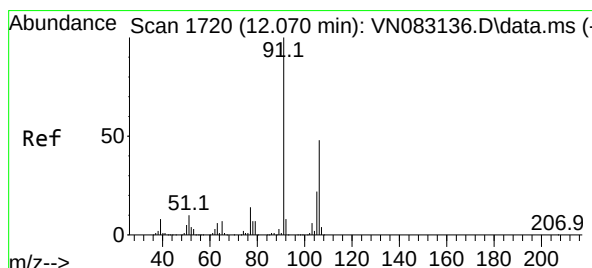
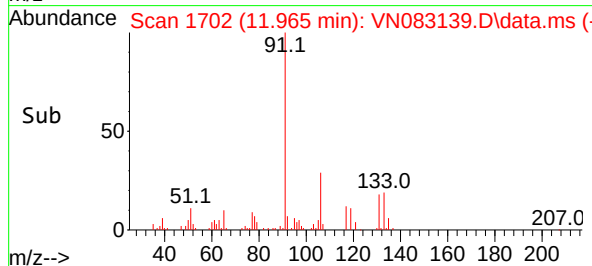
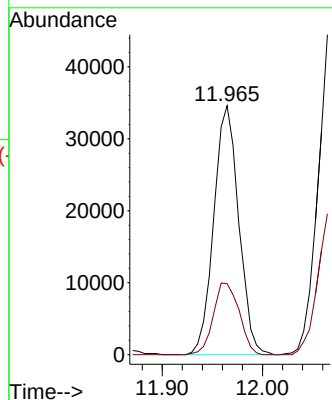
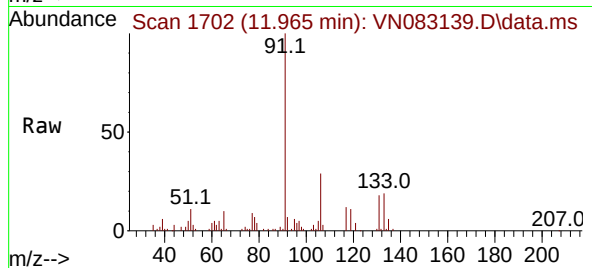
106 28.6 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#68

m/p-Xylenes

Concen: 10.000 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. 0.000 min

Lab File: VN083139.D

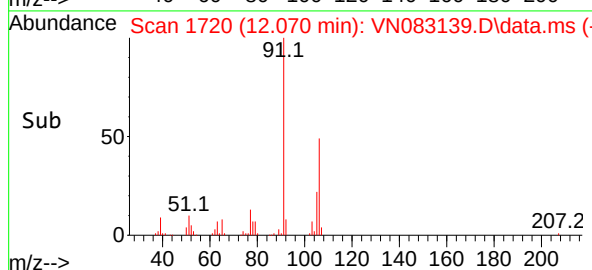
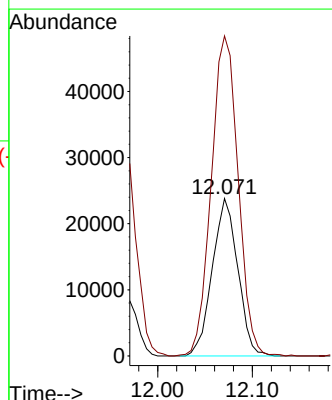
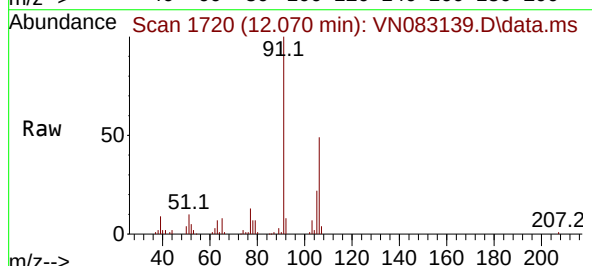
Acq: 07 Aug 2024 12:10

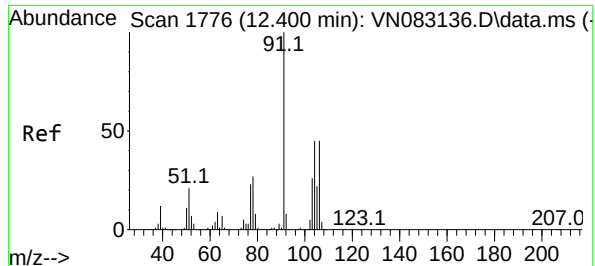
Tgt Ion:106 Resp: 44572

Ion Ratio Lower Upper

106 100

91 214.3 166.1 249.1





#69

o-Xylene

Concen: 5.005 ug/l

RT: 12.400 min Scan# 1776

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:106 Resp: 22000

Ion Ratio Lower Upper

106 100

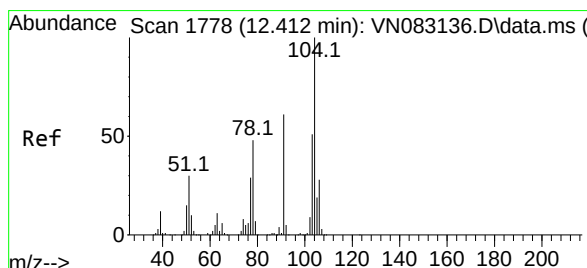
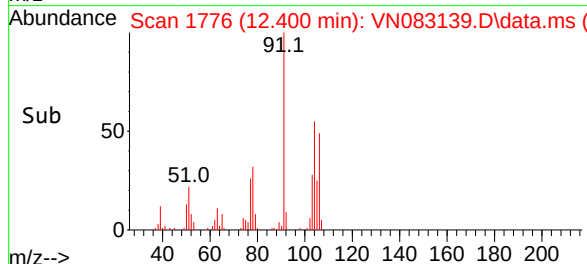
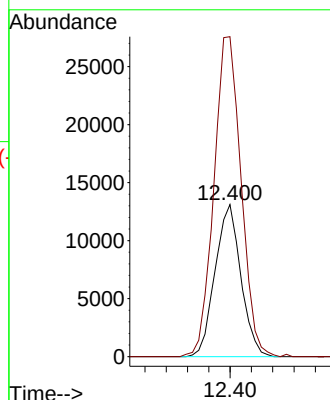
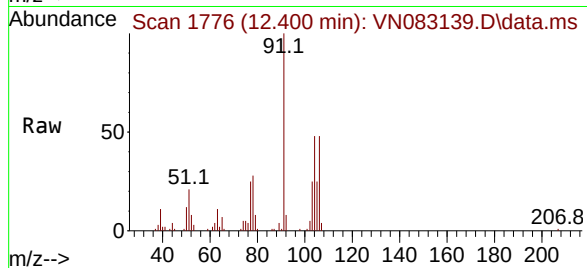
91 221.7 111.3 333.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#70

Styrene

Concen: 5.014 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

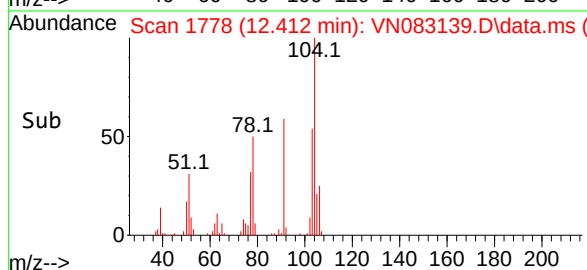
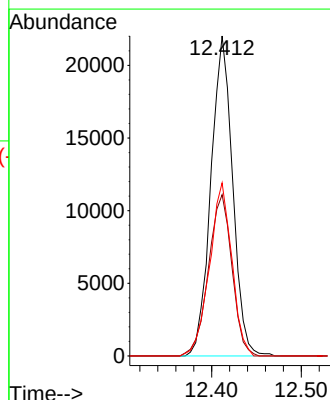
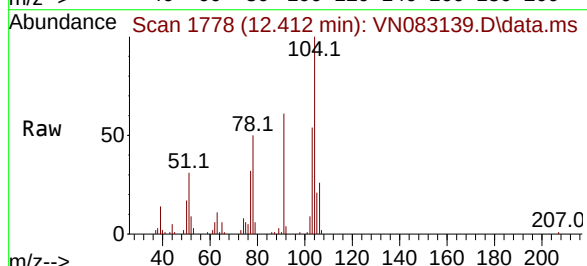
Tgt Ion:104 Resp: 37023

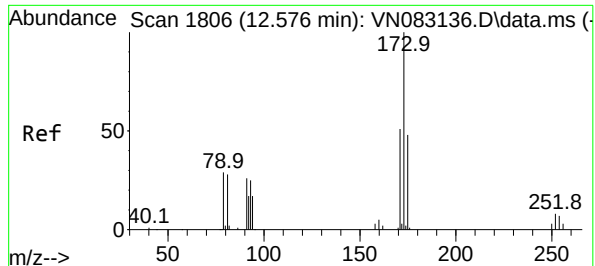
Ion Ratio Lower Upper

104 100

78 54.3 41.6 62.4

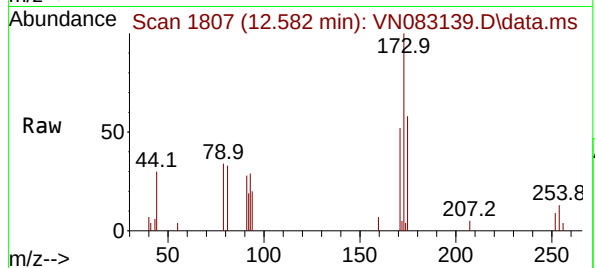
103 55.4 44.0 66.0





#71
Bromoform
Concen: 4.665 ug/l
RT: 12.582 min Scan# 1806
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

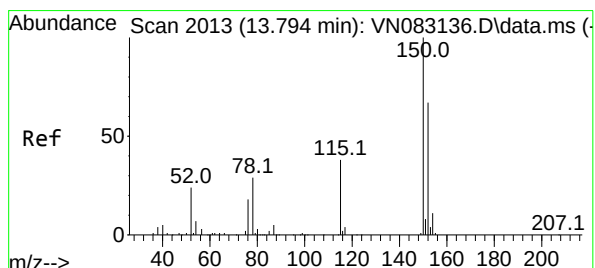
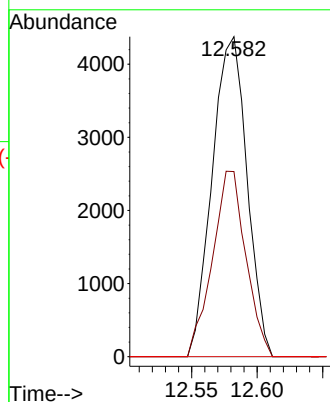
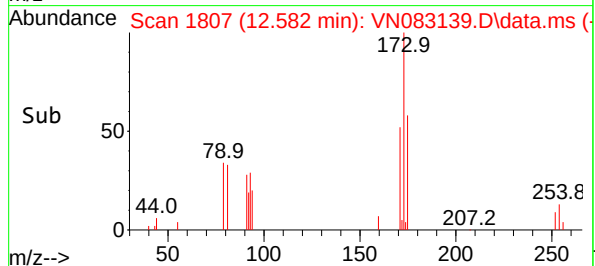
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion:173 Resp: 808
Ion Ratio Lower Upper
173 100
175 55.6 24.0 72.0
254 0.0 0.0 0.0

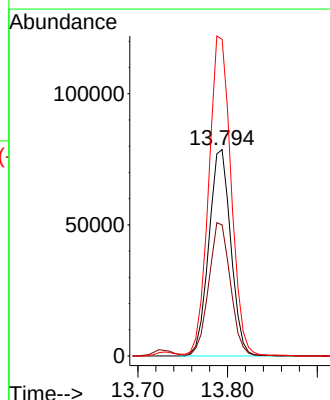
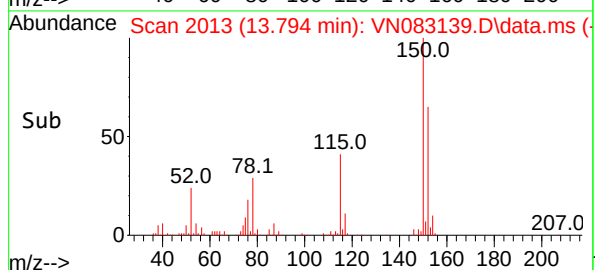
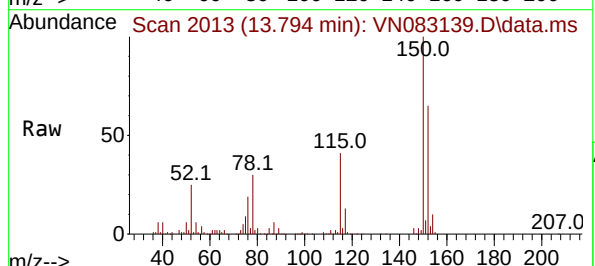
Manual Integrations
APPROVED

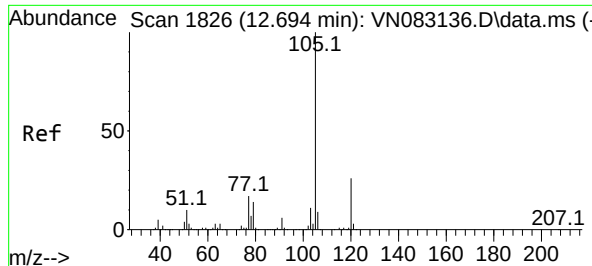
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

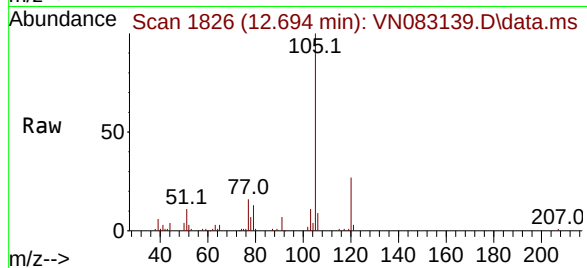
Tgt Ion:152 Resp: 133537
Ion Ratio Lower Upper
152 100
115 64.0 30.6 91.6
150 158.4 0.0 348.6





#73
Isopropylbenzene
Concen: 5.080 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

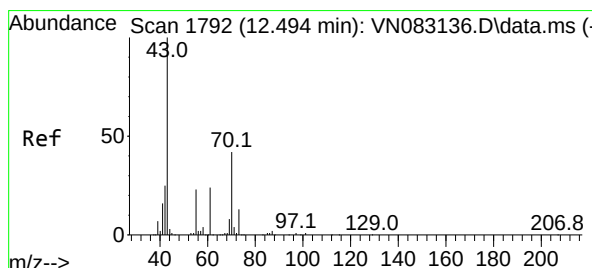
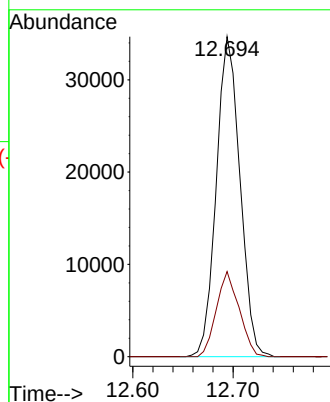
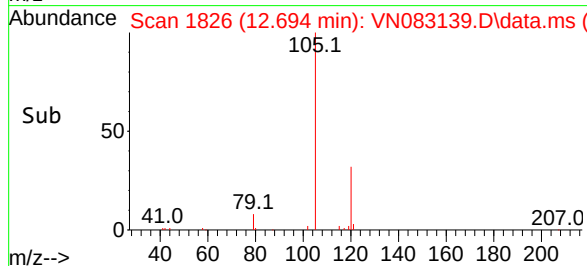
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 105 Resp: 5674
Ion Ratio Lower Upper
105 100
120 25.7 12.9 38.6

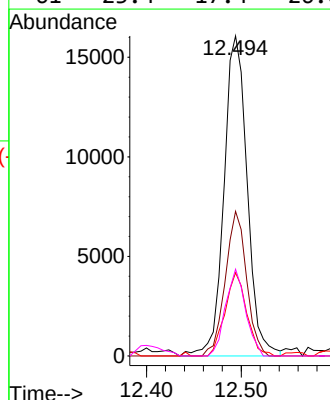
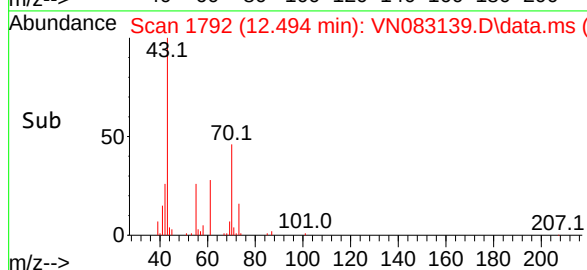
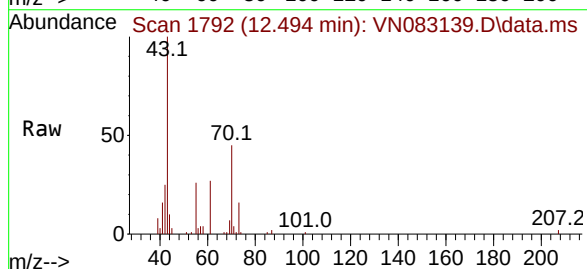
Manual Integrations
APPROVED

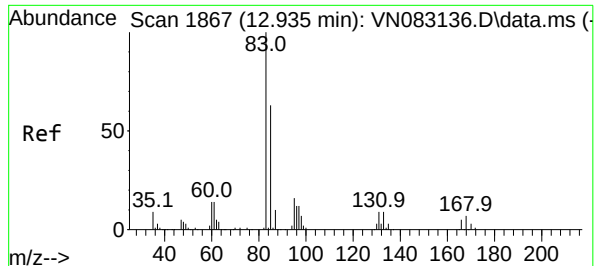
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#74
N-ethyl acetate
Concen: 5.014 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

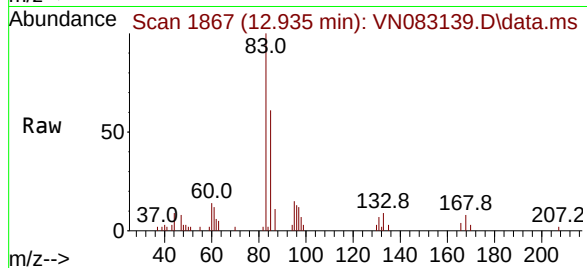
Tgt Ion: 43 Resp: 27393
Ion Ratio Lower Upper
43 100
70 41.4 29.8 44.6
55 24.3 18.7 28.1
61 23.4 17.4 26.0





#75
1,1,2,2-Tetrachloroethane
Concen: 5.227 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

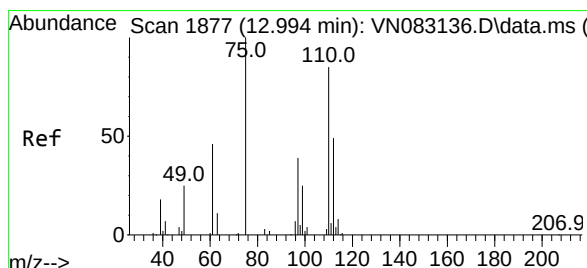
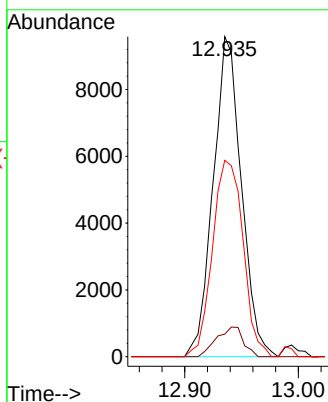
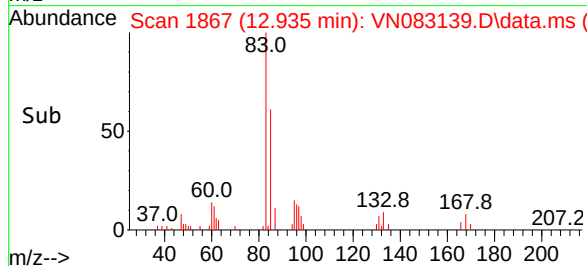
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion: 83 Resp: 16514
Ion Ratio Lower Upper
83 100
131 8.8 5.0 14.9
85 66.4 31.9 95.7

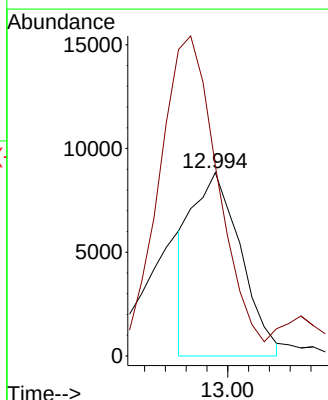
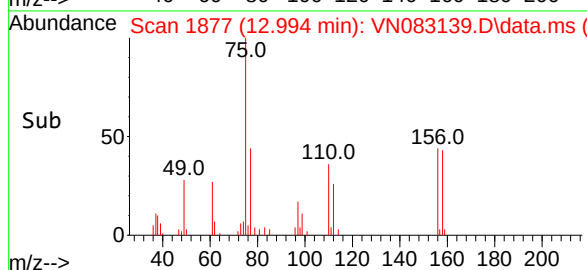
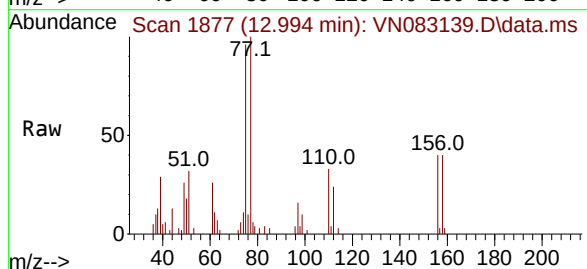
Manual Integrations
APPROVED

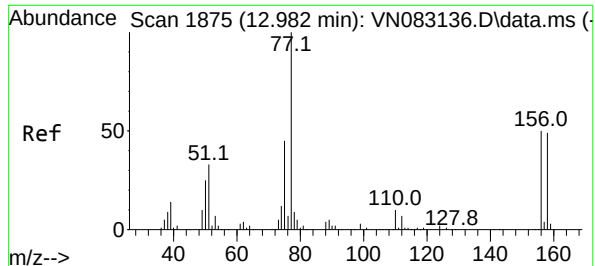
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#76
1,2,3-Trichloropropane
Concen: 4.927 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

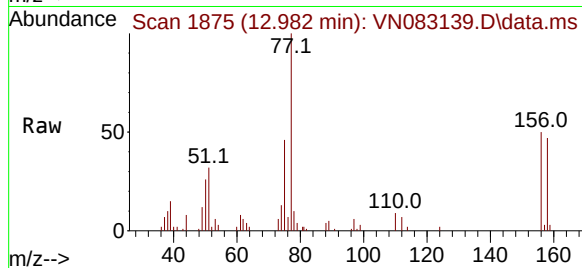
Tgt Ion: 75 Resp: 14463
Ion Ratio Lower Upper
75 100
77 212.4 110.9 332.6





#77
Bromobenzene
Concen: 5.249 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

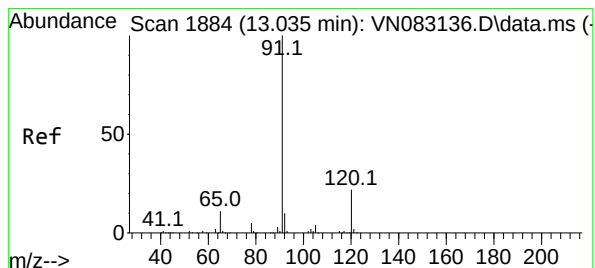
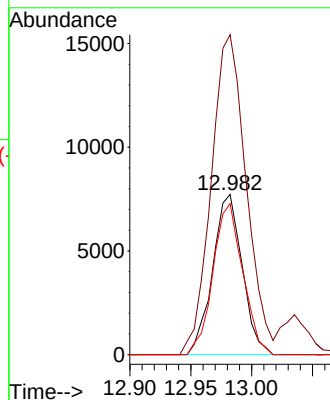
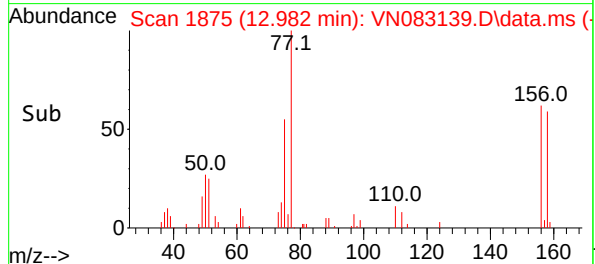
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion:156 Resp: 13024
Ion Ratio Lower Upper
156 100
77 235.8 111.3 333.8
158 95.0 48.3 144.9

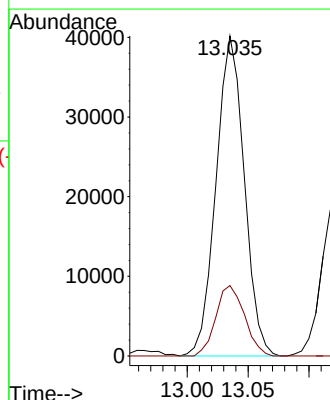
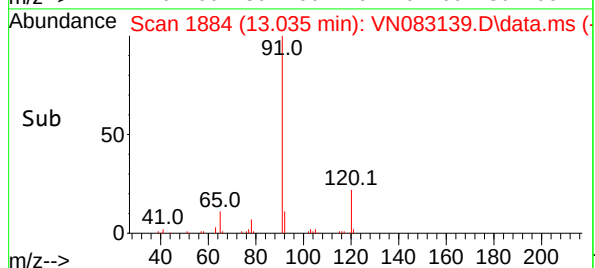
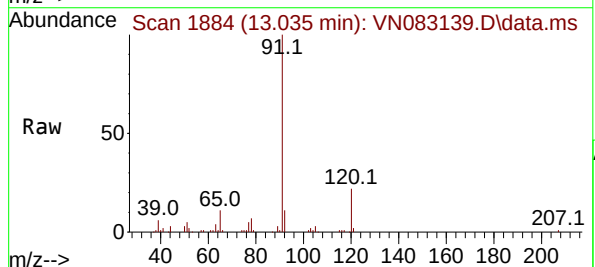
Manual Integrations
APPROVED

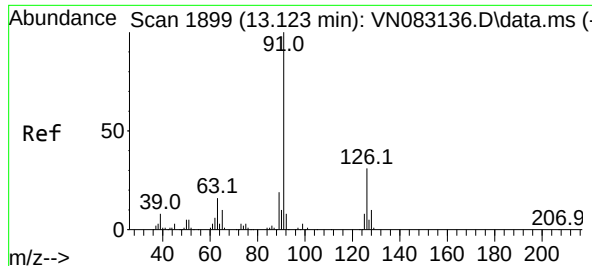
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#78
n-propylbenzene
Concen: 5.035 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 91 Resp: 64751
Ion Ratio Lower Upper
91 100
120 22.4 10.9 32.9





#79

2-Chlorotoluene

Concen: 5.050 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 91 Resp: 41170

Ion Ratio Lower Upper

91 100

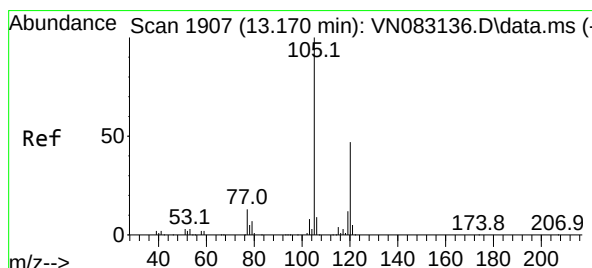
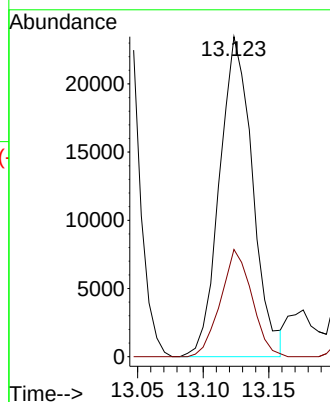
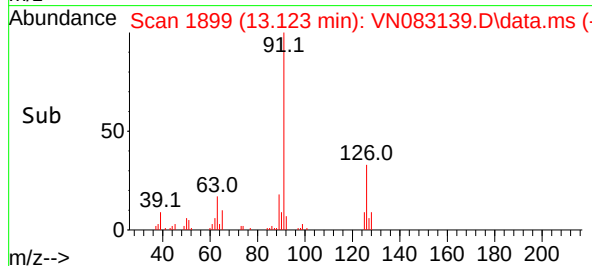
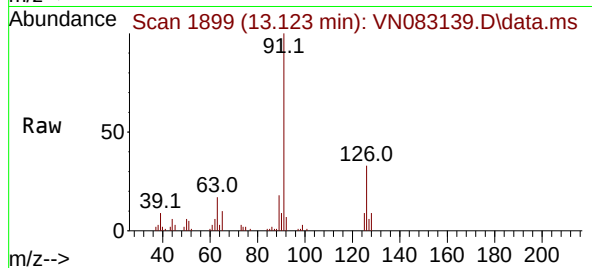
126 31.6 16.2 48.6

Manual Integrations

APPROVED

Reviewed By :John Carbone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#80

1,3,5-Trimethylbenzene

Concen: 5.088 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN083139.D

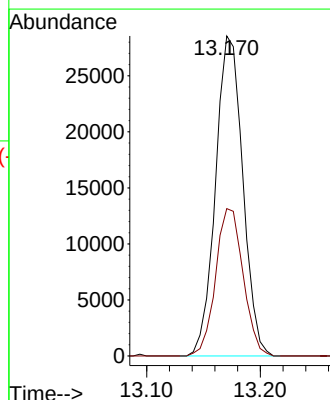
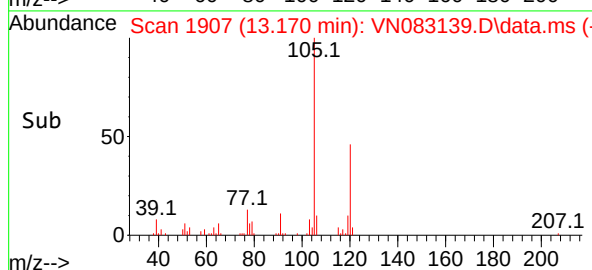
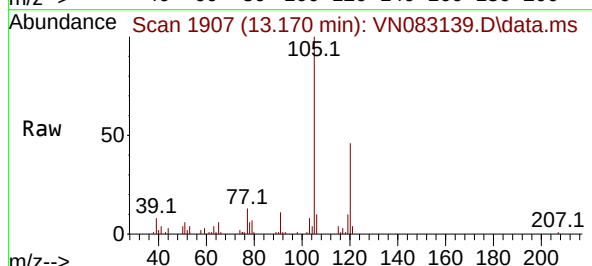
Acq: 07 Aug 2024 12:10

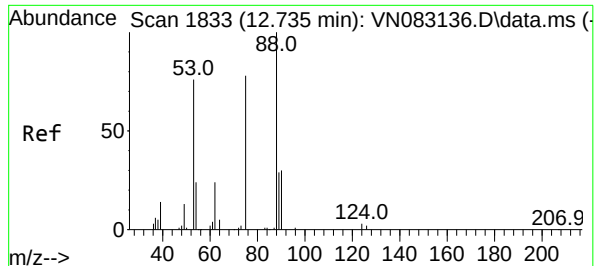
Tgt Ion:105 Resp: 47581

Ion Ratio Lower Upper

105 100

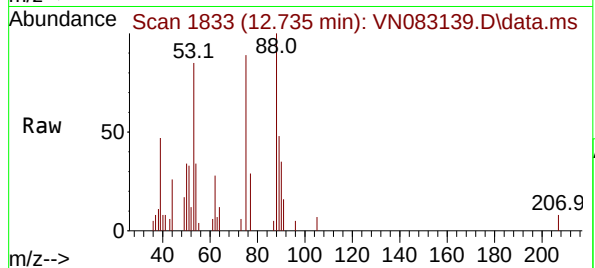
120 46.5 24.3 72.8





#81
trans-1,4-Dichloro-2-butene
Concen: 5.254 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

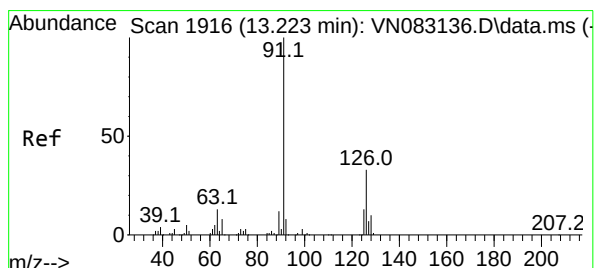
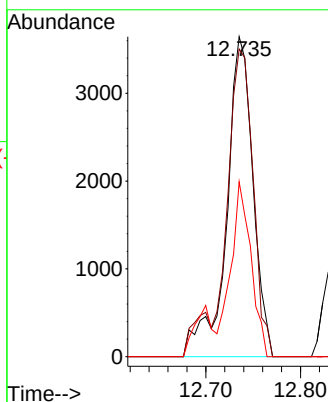
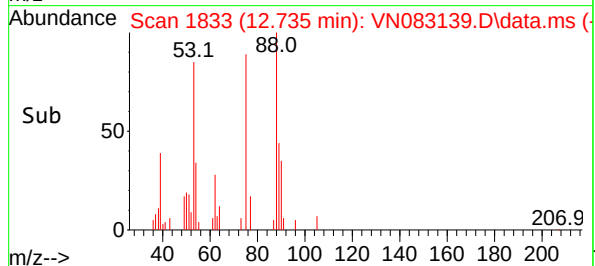
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 75 Resp: 7079
Ion Ratio Lower Upper
75 100
53 100.6 88.4 132.6
89 41.6 36.3 54.5

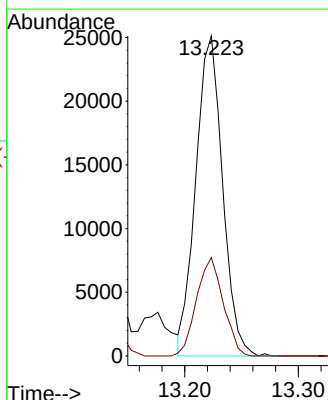
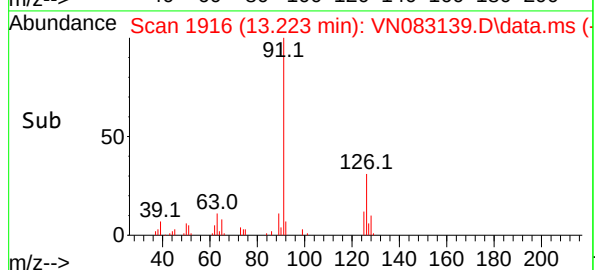
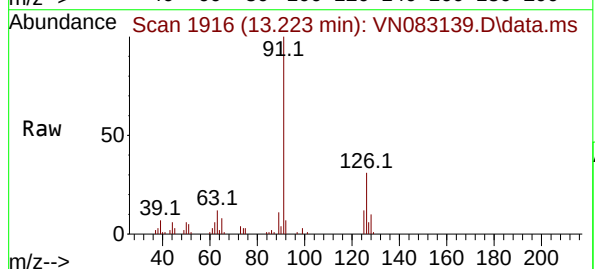
Manual Integrations
APPROVED

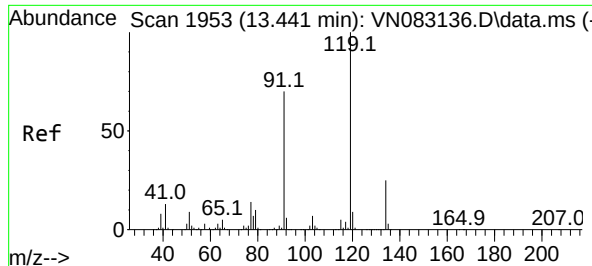
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#82
4-Chlorotoluene
Concen: 5.030 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

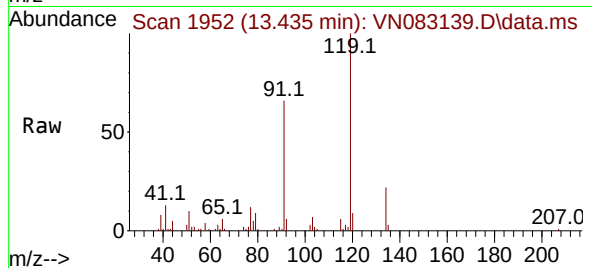
Tgt Ion: 91 Resp: 41137
Ion Ratio Lower Upper
91 100
126 30.6 16.2 48.6





#83
tert-Butylbenzene
Concen: 5.159 ug/l
RT: 13.435 min Scan# 1953
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

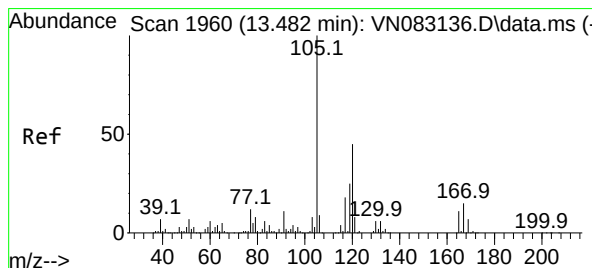
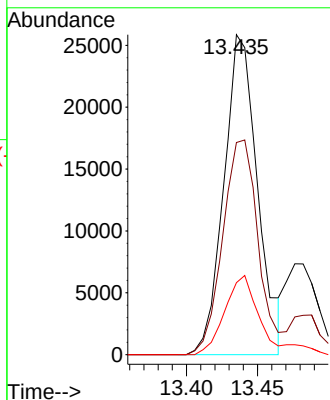
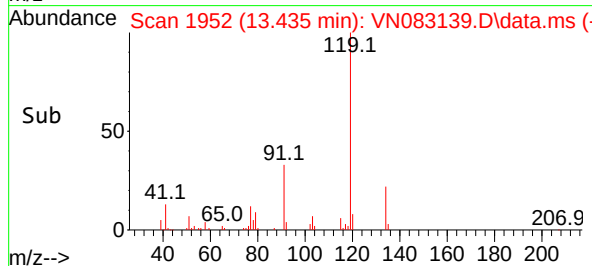
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion:119 Resp: 42720
Ion Ratio Lower Upper
119 100
91 70.0 35.0 105.1
134 26.6 13.3 39.8

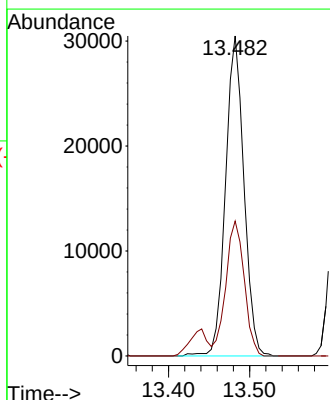
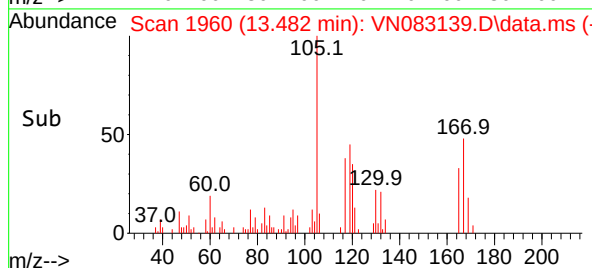
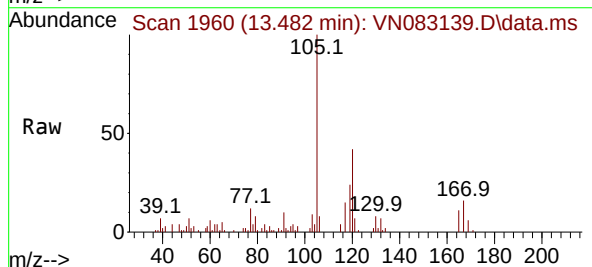
Manual Integrations
APPROVED

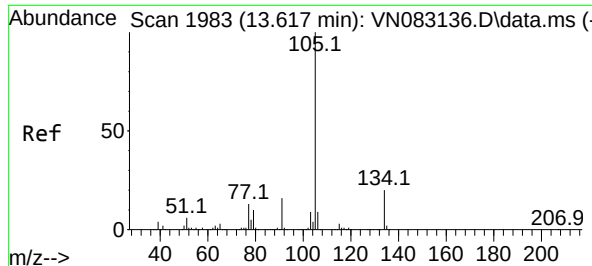
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#84
1,2,4-Trimethylbenzene
Concen: 5.090 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:105 Resp: 47965
Ion Ratio Lower Upper
105 100
120 42.3 21.9 65.8





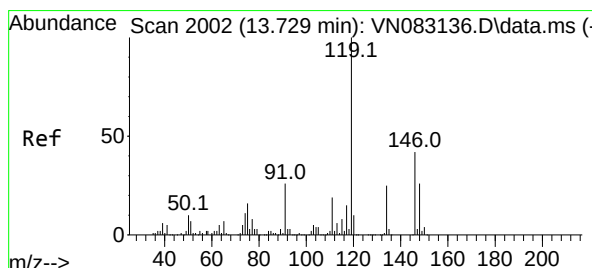
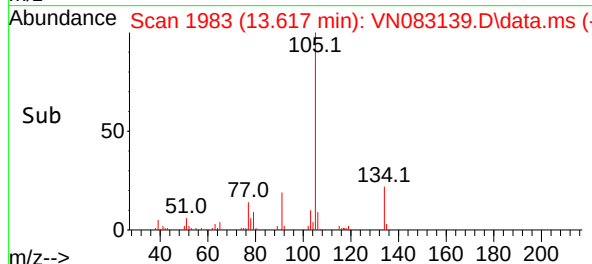
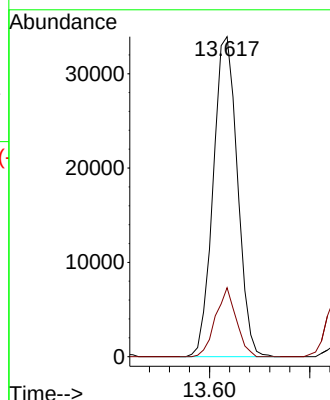
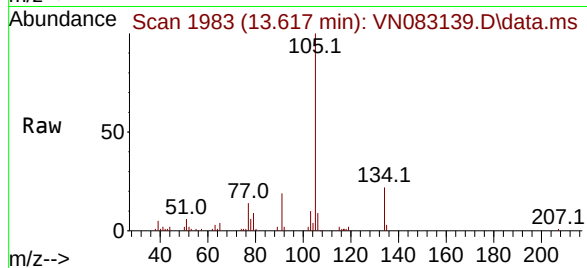
#85
 sec-Butylbenzene
 Concen: 5.040 ug/l
 RT: 13.617 min Scan# 1983
 Delta R.T. 0.000 min
 Lab File: VN083139.D
 Acq: 07 Aug 2024 12:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tgt Ion:105 Resp: 5694
 Ion Ratio Lower Upper
 105 100
 134 18.5 9.8 29.3

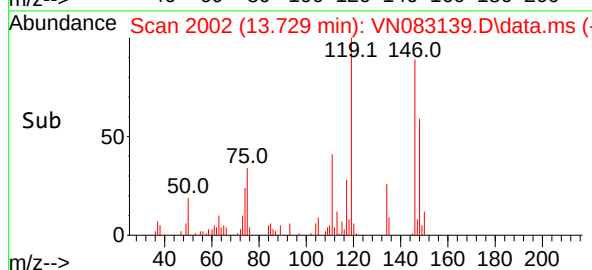
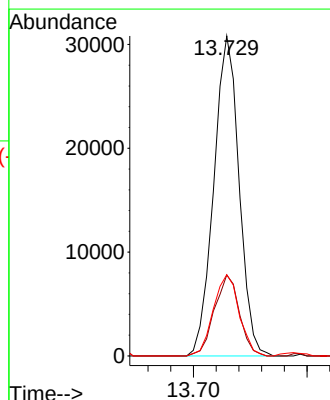
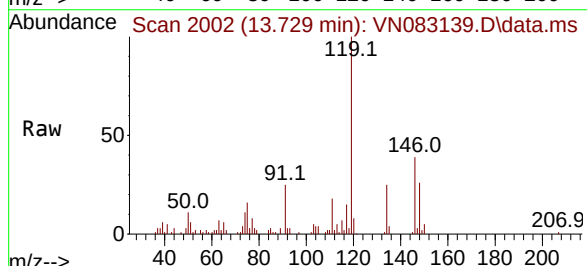
Manual Integrations
 APPROVED

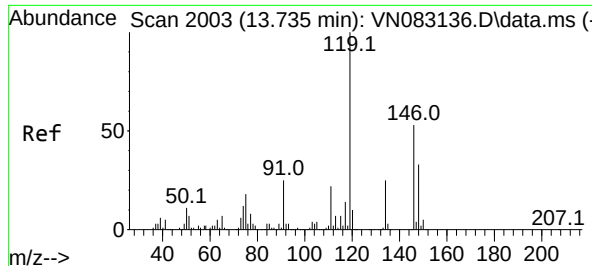
Reviewed By :John Carlone 08/08/2024
 Supervised By :Mahesh Dadoda 08/09/2024



#86
 p-Isopropyltoluene
 Concen: 5.108 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.000 min
 Lab File: VN083139.D
 Acq: 07 Aug 2024 12:10

Tgt Ion:119 Resp: 47654
 Ion Ratio Lower Upper
 119 100
 134 24.9 13.0 39.0
 91 26.0 12.3 36.9





#87

1,3-Dichlorobenzene

Concen: 4.887 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

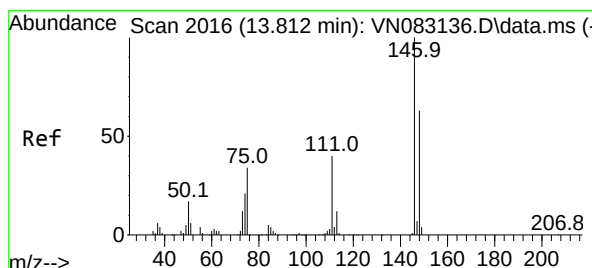
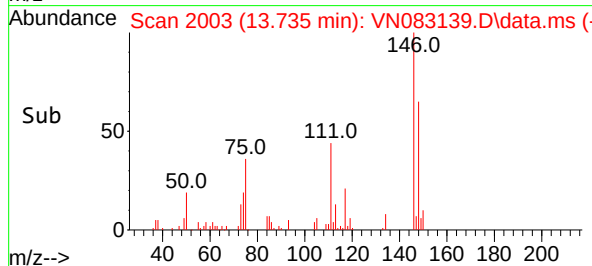
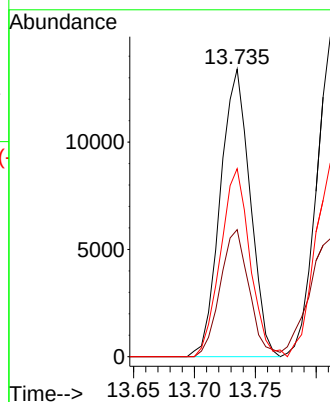
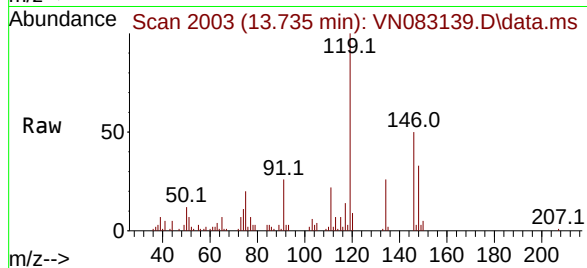
Tgt Ion:	146	Resp:	22814
Ion Ratio	Lower	Upper	
146	100		
111	43.0	20.6	61.9
148	64.7	31.8	95.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#88

1,4-Dichlorobenzene

Concen: 5.093 ug/l

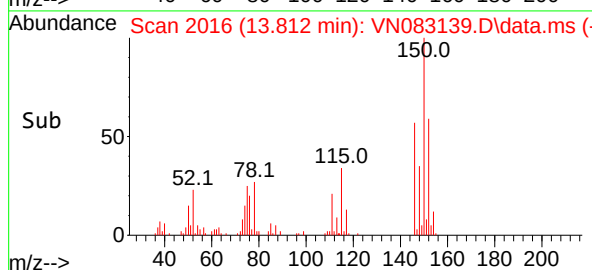
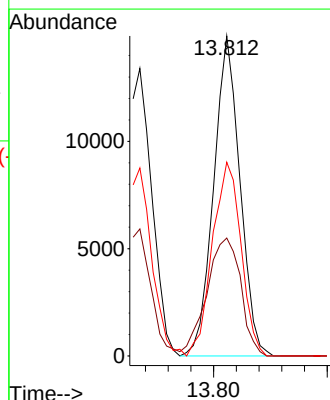
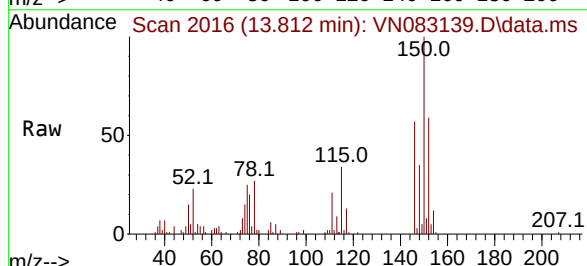
RT: 13.812 min Scan# 2016

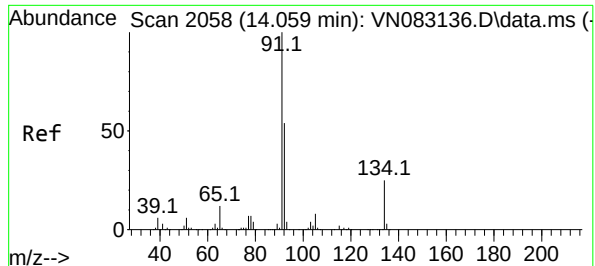
Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Tgt Ion:	146	Resp:	23971
Ion Ratio	Lower	Upper	
146	100		
111	47.6	20.1	60.3
148	65.9	32.2	96.6





#89

n-Butylbenzene

Concen: 4.983 ug/l

RT: 14.053 min Scan# 2058

Delta R.T. -0.006 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

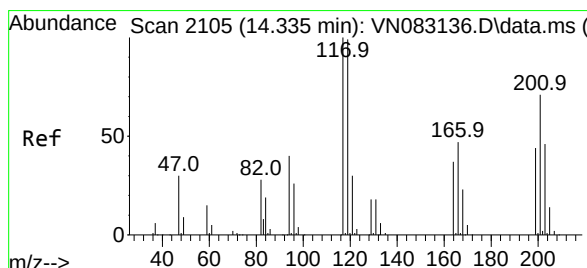
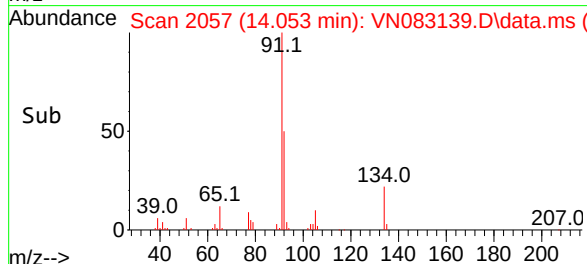
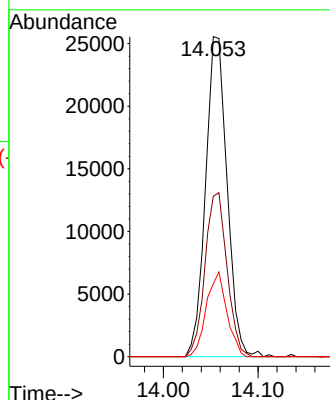
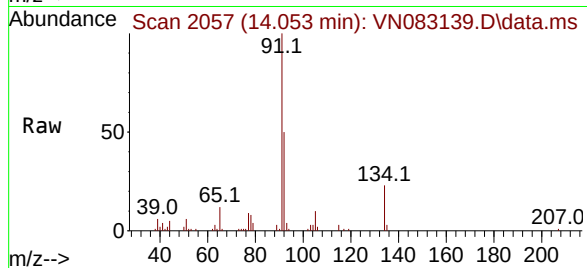
Tgt Ion:	91	Resp:	4028
Ion	Ratio	Lower	Upper
91	100		
92	52.3	26.1	78.3
134	25.3	12.1	36.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#90

Hexachloroethane

Concen: 5.158 ug/l

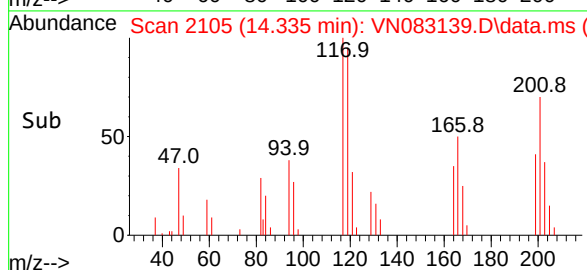
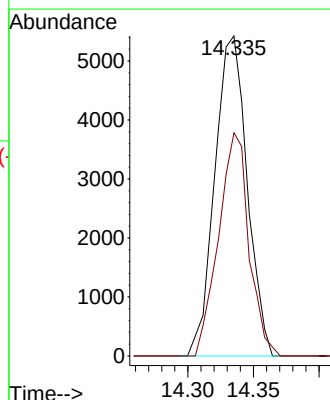
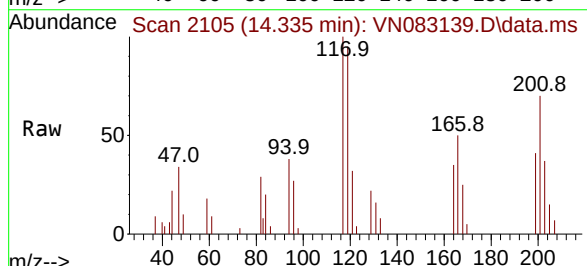
RT: 14.335 min Scan# 2105

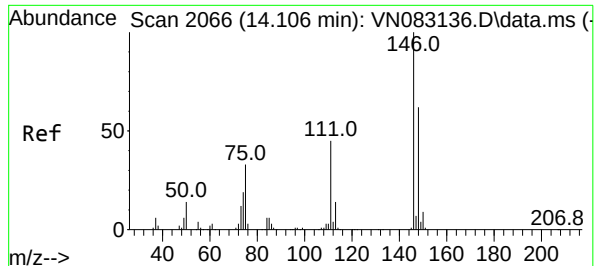
Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

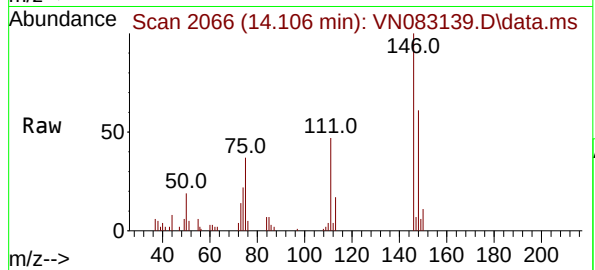
Tgt Ion:	117	Resp:	9298
Ion	Ratio	Lower	Upper
117	100		
201	65.4	35.8	107.3





#91
1,2-Dichlorobenzene
Concen: 5.117 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

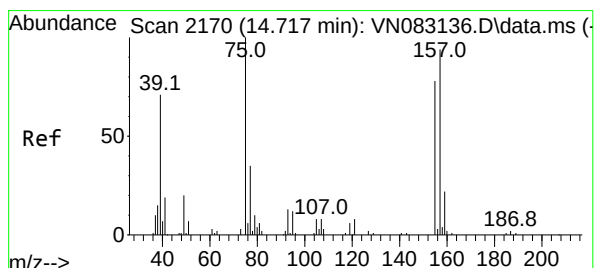
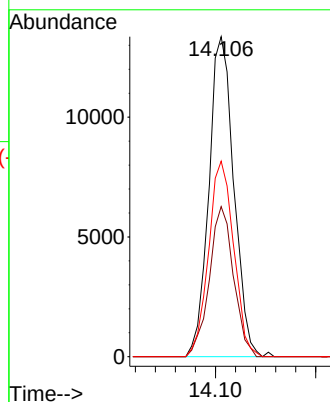
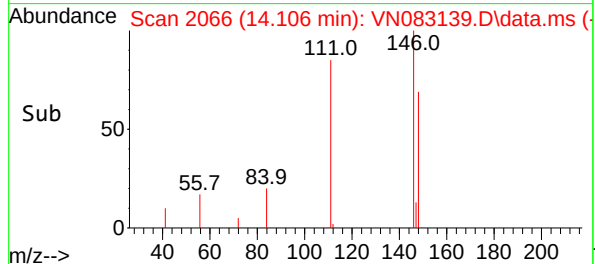
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion:146 Resp: 23110
Ion Ratio Lower Upper
146 100
111 45.5 21.4 64.2
148 61.5 32.1 96.5

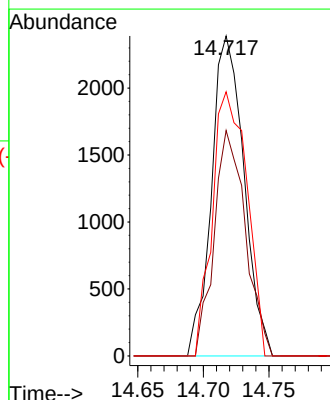
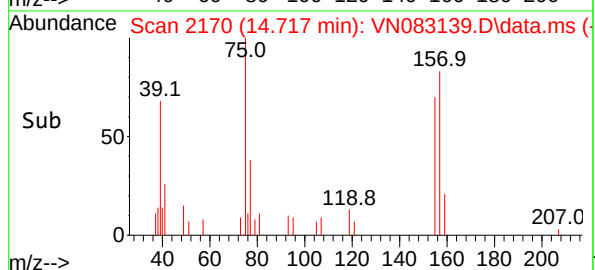
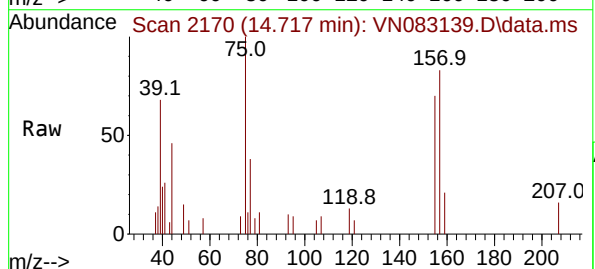
Manual Integrations
APPROVED

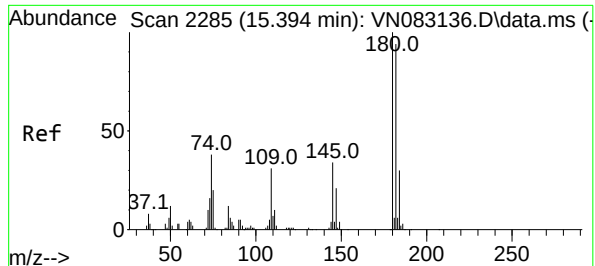
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#92
1,2-Dibromo-3-Chloropropane
Concen: 5.345 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 75 Resp: 4097
Ion Ratio Lower Upper
75 100
155 68.1 36.6 109.8
157 88.3 46.9 140.6





#93

1,2,4-Trichlorobenzene

Concen: 4.710 ug/l

RT: 15.394 min Scan# 2285

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

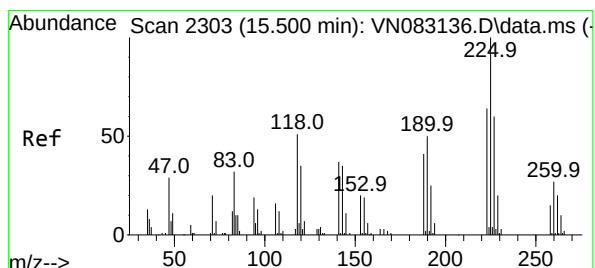
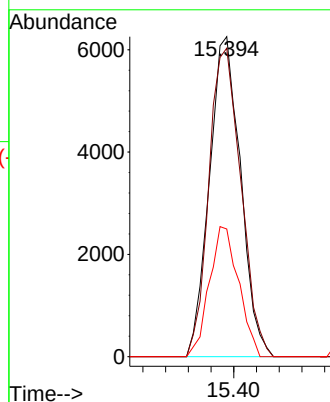
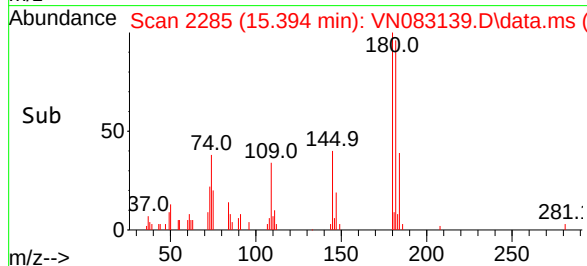
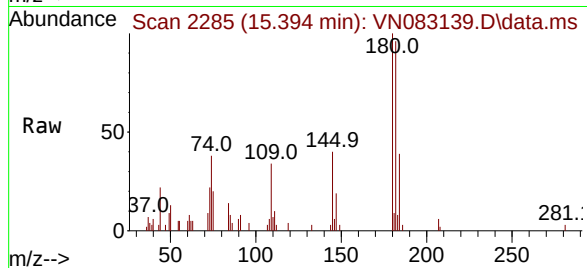
Tgt Ion:	180	Resp:	1192
Ion Ratio	Lower	Upper	
180	100		
182	98.9	47.3	141.8
145	38.1	15.7	47.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#94

Hexachlorobutadiene

Concen: 5.282 ug/l

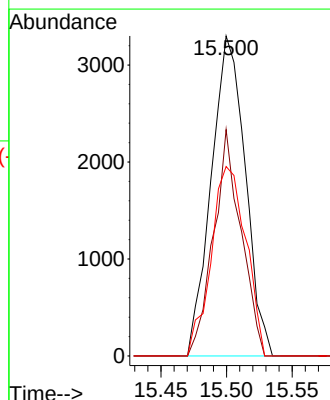
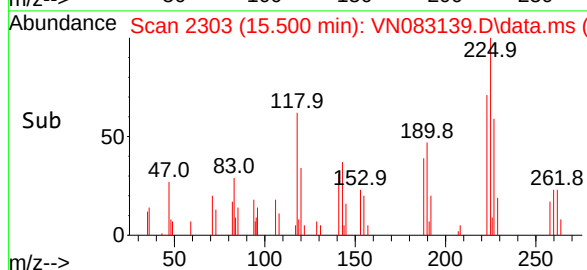
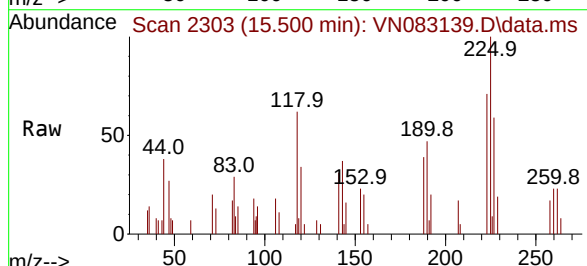
RT: 15.500 min Scan# 2303

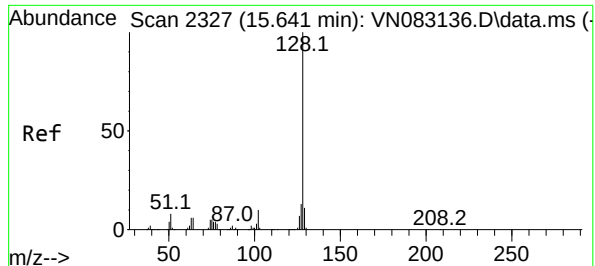
Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

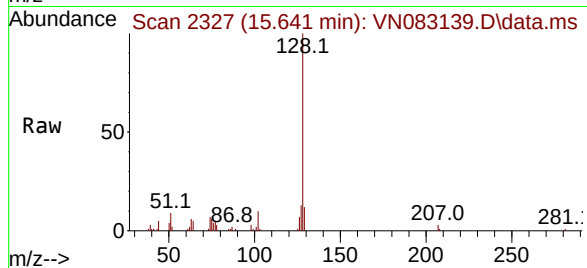
Tgt Ion:	225	Resp:	5946
Ion Ratio	Lower	Upper	
225	100		
223	57.3	31.9	95.7
227	60.5	32.5	97.5





#95
Naphthalene
Concen: 4.811 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

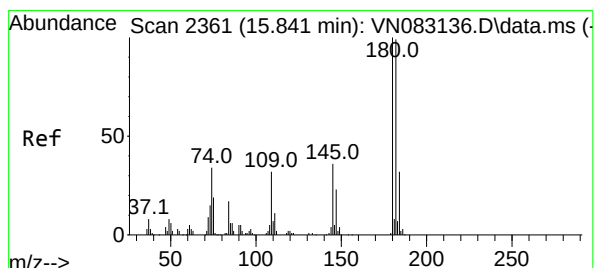
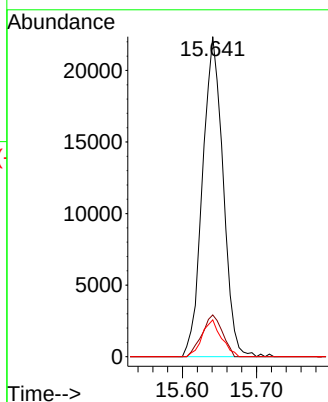
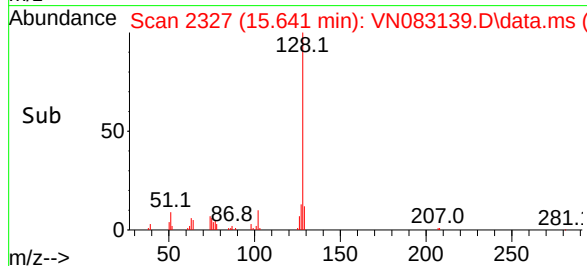
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion:128 Resp: 4313
Ion Ratio Lower Upper
128 100
127 13.0 10.6 16.0
129 10.8 8.6 12.8

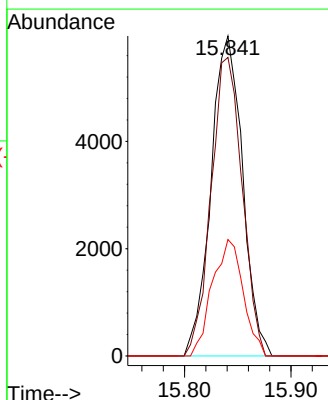
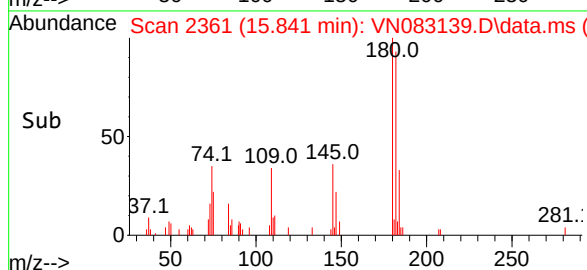
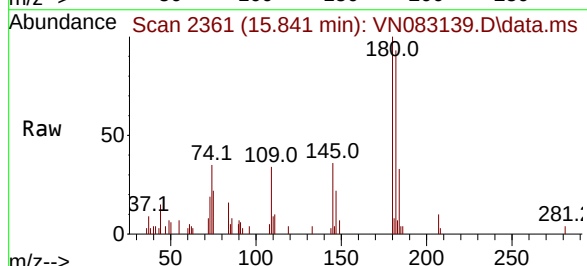
Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#96
1,2,3-Trichlorobenzene
Concen: 4.905 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:180 Resp: 12285
Ion Ratio Lower Upper
180 100
182 91.5 48.9 146.8
145 35.5 16.8 50.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
 Data File : VN083140.D
 Acq On : 07 Aug 2024 12:34
 Operator : JC\MD
 Sample : VSTDIC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/08/2024
 Supervised By : Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 06:19:42 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 05:50:26 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	202290	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	347394	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	292647	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	122922	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	64 - 133	Recovery	=	0.000%#
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	2193	0.956	ug/l	84
3) Chloromethane	2.365	50	2331	0.993	ug/l	96
4) Vinyl Chloride	2.512	62	2457	1.025	ug/l	94
6) Chloroethane	3.124	64	1763	1.176	ug/l #	54
7) Trichlorofluoromethane	3.495	101	3645	0.921	ug/l	88
8) Diethyl Ether	3.965	74	1368	0.929	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.371	101	2064	0.946	ug/l #	88
12) 1,1-Dichloroethene	4.342	96	2328	1.038	ug/l #	72
14) Allyl chloride	5.018	41	4894	1.155	ug/l #	75
15) Acrylonitrile	5.724	53	6198	5.036	ug/l	94
16) Acetone	4.442	43	5369	4.765	ug/l	95
17) Carbon Disulfide	4.718	76	7603	1.159	ug/l	99
18) Methyl Acetate	5.036	43	3987	1.188	ug/l #	89
19) Methyl tert-butyl Ether	5.795	73	7900	0.976	ug/l	96
20) Methylene Chloride	5.283	84	3255	1.255	ug/l #	63
21) trans-1,2-Dichloroethene	5.783	96	2425	1.046	ug/l #	75
22) Diisopropyl ether	6.677	45	7871	0.988	ug/l	94
23) Vinyl Acetate	6.606	43	39044	4.783	ug/l #	94
24) 1,1-Dichloroethane	6.571	63	4189	0.965	ug/l #	83
25) 2-Butanone	7.495	43	9164	5.297	ug/l	93
26) 2,2-Dichloropropane	7.489	77	3741	0.928	ug/l	95
27) cis-1,2-Dichloroethene	7.495	96	2919	1.044	ug/l	90
28) Bromochloromethane	7.812	49	1883	1.061	ug/l #	92
29) Tetrahydrofuran	7.842	42	5490	4.909	ug/l #	87
30) Chloroform	7.971	83	4457	0.988	ug/l	95
32) 1,1,1-Trichloroethane	8.171	97	4076	0.955	ug/l #	49
36) 1,1-Dichloropropene	8.377	75	3393	1.034	ug/l	97
37) Ethyl Acetate	7.565	43	4617	1.257	ug/l #	90
38) Carbon Tetrachloride	8.359	117	3422	0.926	ug/l #	84
39) Methylcyclohexane	9.600	83	3974	0.986	ug/l	87
40) Benzene	8.606	78	9334	0.955	ug/l	99
41) Methacrylonitrile	7.783	41	2618	1.254	ug/l #	85
42) 1,2-Dichloroethane	8.677	62	3457	0.971	ug/l	82
43) Isopropyl Acetate	8.689	43	14981	0.753	ug/l #	80
44) Trichloroethene	9.359	130	2151	0.925	ug/l	98
45) 1,2-Dichloropropane	9.618	63	2194	0.946	ug/l	93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
 Data File : VN083140.D
 Acq On : 07 Aug 2024 12:34
 Operator : JC\MD
 Sample : VSTDIC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/08/2024
 Supervised By : Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 06:19:42 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 05:50:26 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	9.700	93	1513	0.911	ug/l	95
47) Bromodichloromethane	9.894	83	3783	1.015	ug/l #	83
48) Methyl methacrylate	9.683	41	3518	1.159	ug/l	96
49) 1,4-Dioxane	9.700	88	1089	19.880	ug/l #	77
51) 4-Methyl-2-Pentanone	10.447	43	15872	4.570	ug/l	90
52) Toluene	10.630	92	5723	0.927	ug/l	97
53) t-1,3-Dichloropropene	10.835	75	3260	0.851	ug/l	100
54) cis-1,3-Dichloropropene	10.312	75	3797	0.932	ug/l #	87
55) 1,1,2-Trichloroethane	11.018	97	1963	0.887	ug/l	96
56) Ethyl methacrylate	10.871	69	3843	0.921	ug/l #	90
57) 1,3-Dichloropropane	11.165	76	3837	0.973	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	8453	4.794	ug/l	93
59) 2-Hexanone	11.200	43	12761	4.749	ug/l	100
60) Dibromochloromethane	11.353	129	2283	0.853	ug/l	99
61) 1,2-Dibromoethane	11.465	107	2200	0.947	ug/l	98
64) Tetrachloroethene	11.106	164	1872	0.966	ug/l	93
65) Chlorobenzene	11.888	112	6259	0.968	ug/l	93
66) 1,1,1,2-Tetrachloroethane	11.965	131	2168	0.951	ug/l #	63
67) Ethyl Benzene	11.965	91	11455	0.966	ug/l	98
68) m/p-Xylenes	12.065	106	8266	1.860	ug/l	94
69) o-Xylene	12.400	106	4113	0.938	ug/l	98
70) Styrene	12.412	104	6441	0.875	ug/l	90
71) Bromoform	12.577	173	1561	0.903	ug/l #	88
73) Isopropylbenzene	12.694	105	10459	1.017	ug/l	99
74) N-amyl acetate	12.494	43	5755	1.144	ug/l #	92
75) 1,1,2,2-Tetrachloroethane	12.941	83	3034	1.043	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	3031m	1.122	ug/l	
77) Bromobenzene	12.977	156	2212	0.969	ug/l	86
78) n-propylbenzene	13.029	91	11800	0.997	ug/l	99
79) 2-Chlorotoluene	13.124	91	7735	1.031	ug/l	90
80) 1,3,5-Trimethylbenzene	13.176	105	8552	0.994	ug/l	95
82) 4-Chlorotoluene	13.224	91	8018	1.065	ug/l	93
83) tert-Butylbenzene	13.435	119	7628	1.001	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	8397	0.968	ug/l	100
85) sec-Butylbenzene	13.618	105	10411	1.001	ug/l	96
86) p-Isopropyltoluene	13.735	119	8247	0.960	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	4598	1.070	ug/l	97
88) 1,4-Dichlorobenzene	13.812	146	4578m	1.057	ug/l	
89) n-Butylbenzene	14.053	91	7008	0.942	ug/l	100
90) Hexachloroethane	14.335	117	1524	0.918	ug/l	93
91) 1,2-Dichlorobenzene	14.106	146	4279	1.029	ug/l	95
92) 1,2-Dibromo-3-Chloropr...	14.718	75	763	1.081	ug/l	78
93) 1,2,4-Trichlorobenzene	15.394	180	2493	1.070	ug/l	97
94) Hexachlorobutadiene	15.512	225	1181	1.140	ug/l	92
95) Naphthalene	15.641	128	8430	1.021	ug/l #	96
96) 1,2,3-Trichlorobenzene	15.835	180	2389	1.036	ug/l	96

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

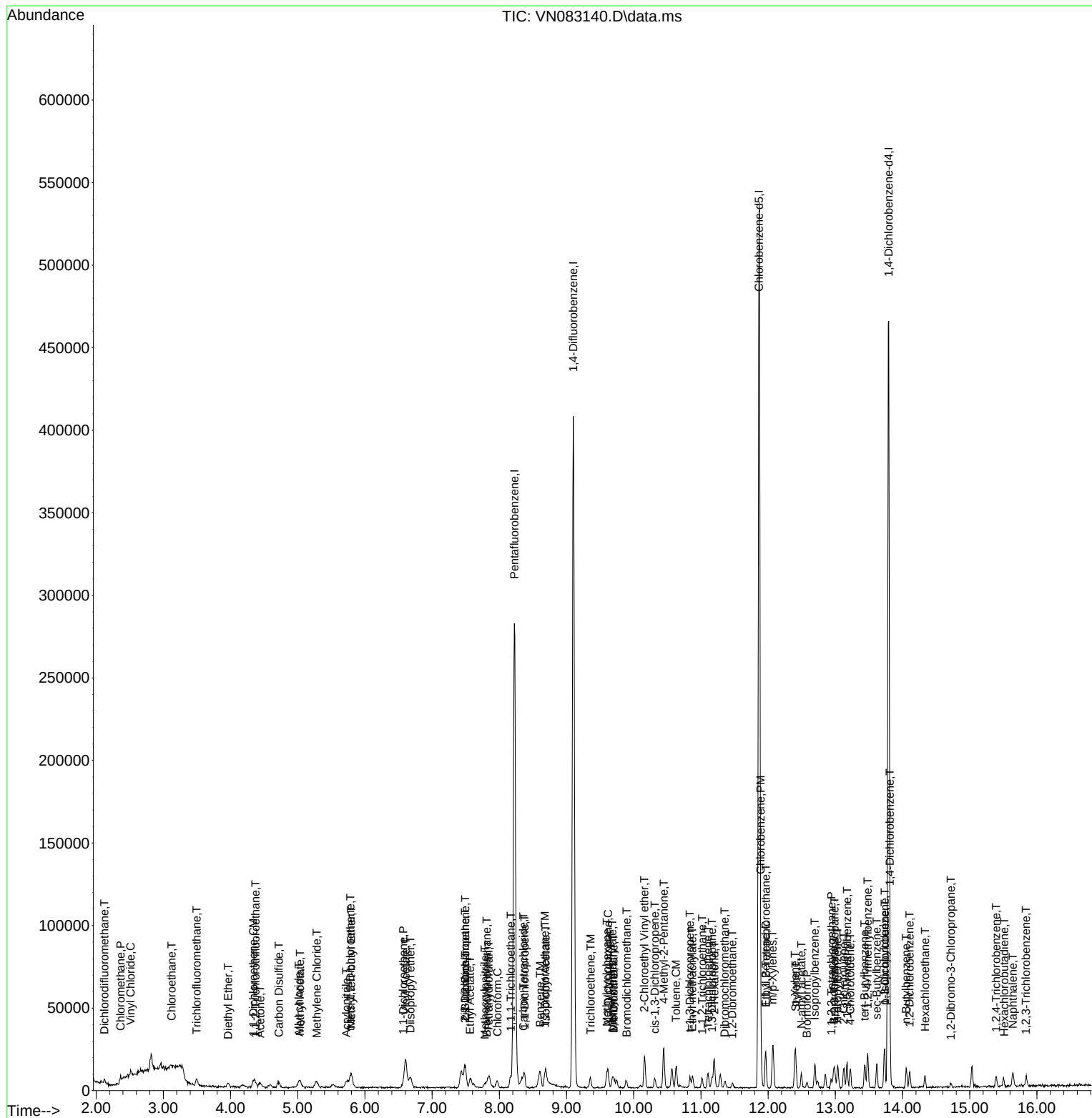
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083140.D
Acq On : 07 Aug 2024 12:34
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

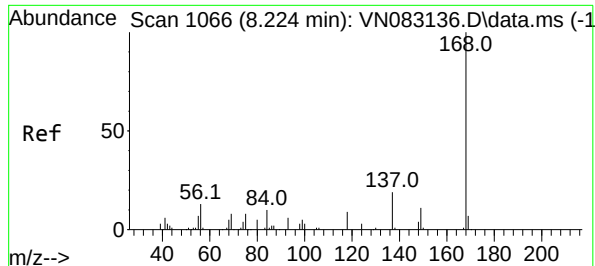
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

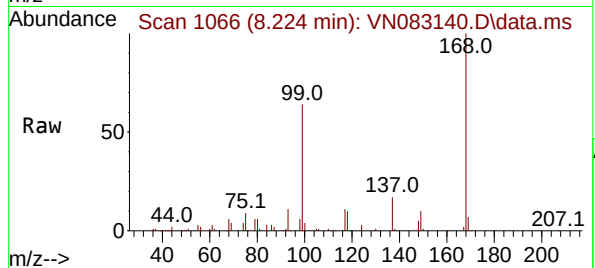
Quant Time: Aug 08 06:19:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

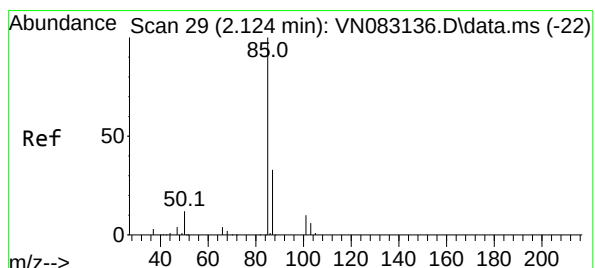
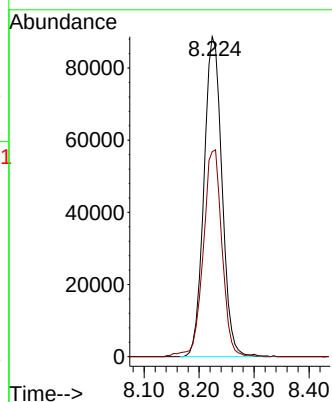
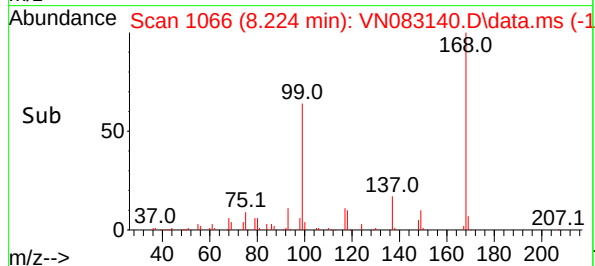
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion:168 Resp: 202290
Ion Ratio Lower Upper
168 100
99 64.1 48.2 72.4

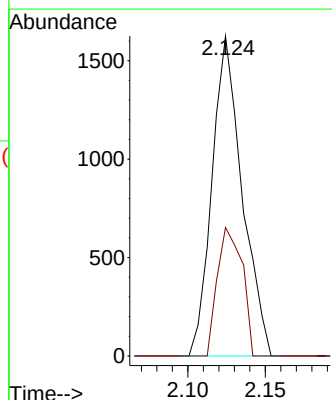
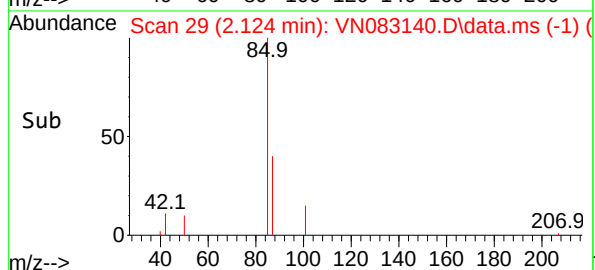
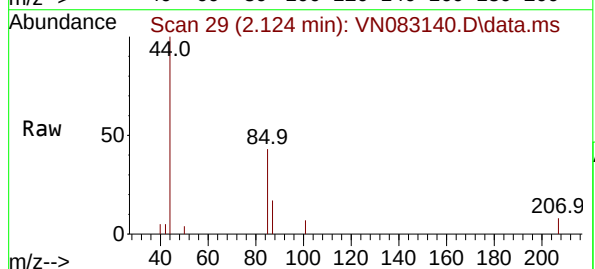
Manual Integrations
APPROVED

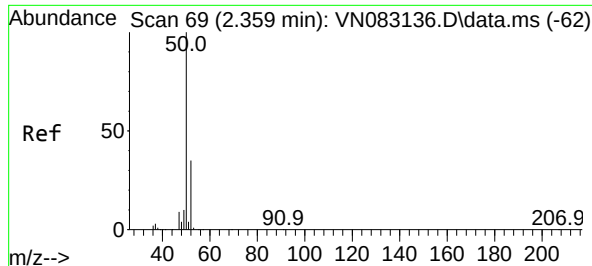
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#2
Dichlorodifluoromethane
Concen: 0.956 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

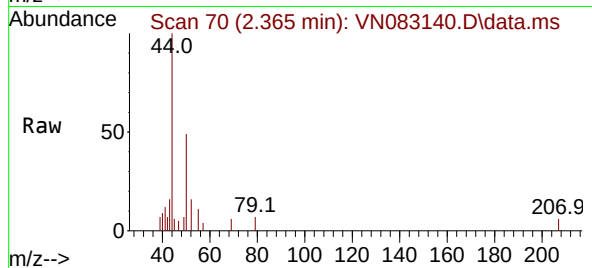
Tgt Ion: 85 Resp: 2193
Ion Ratio Lower Upper
85 100
87 40.2 15.7 47.0





#3
Chloromethane
Concen: 0.993 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

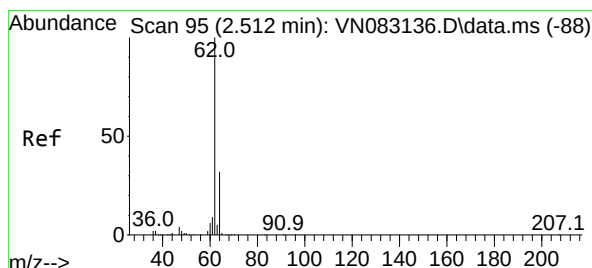
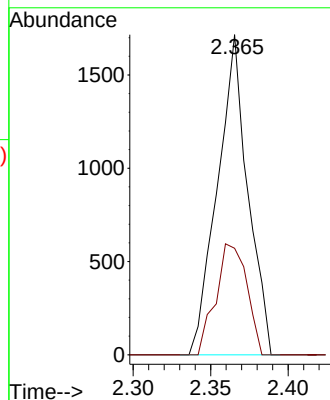
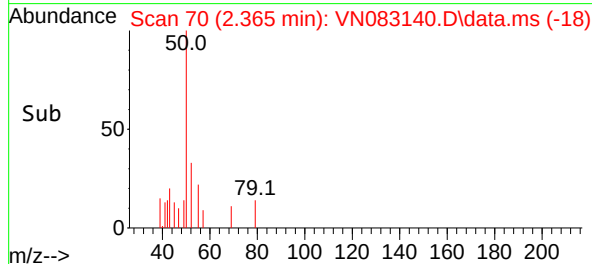
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion: 50 Resp: 233
Ion Ratio Lower Upper
50 100
52 33.3 25.0 37.4

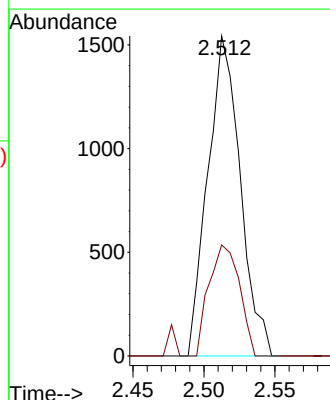
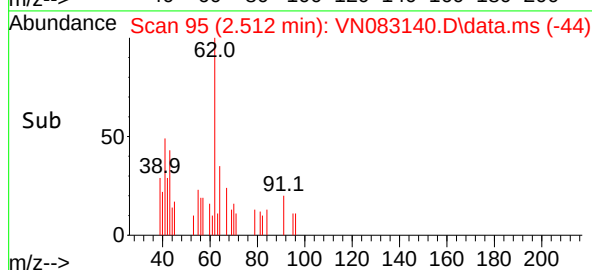
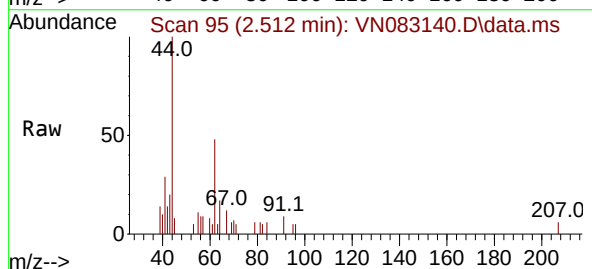
Manual Integrations
APPROVED

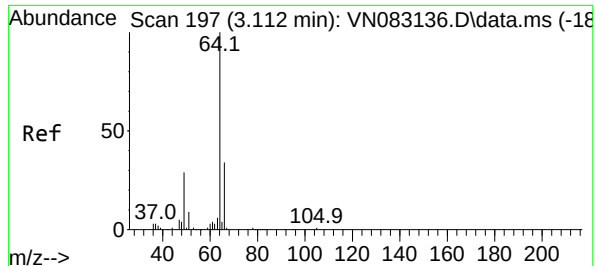
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#4
Vinyl Chloride
Concen: 1.025 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 62 Resp: 2457
Ion Ratio Lower Upper
62 100
64 34.7 25.0 37.6





#6

Chloroethane

Concen: 1.176 ug/l

RT: 3.124 min Scan# 199

Delta R.T. 0.012 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 64 Resp: 176

Ion Ratio Lower Upper

64 100

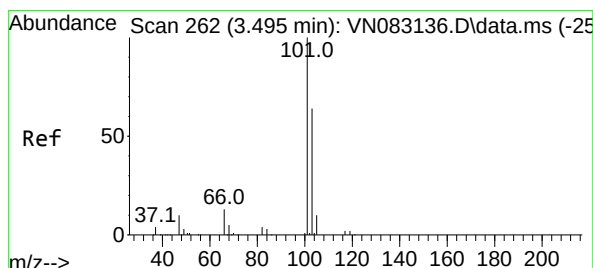
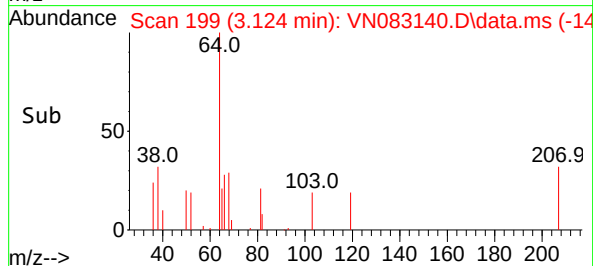
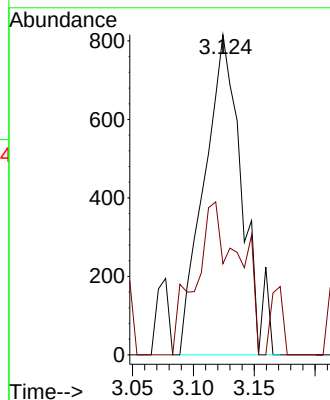
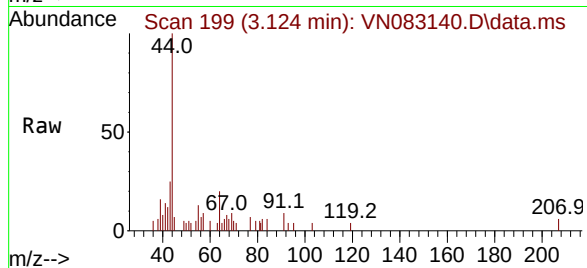
66 7.1 26.6 40.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#7

Trichlorofluoromethane

Concen: 0.921 ug/l

RT: 3.495 min Scan# 262

Delta R.T. -0.000 min

Lab File: VN083140.D

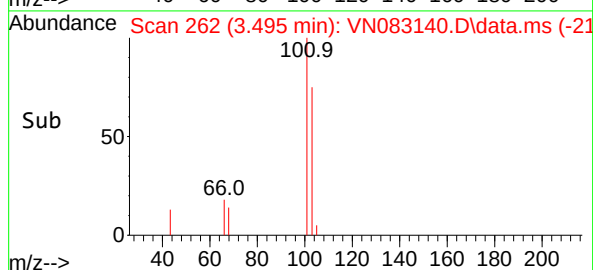
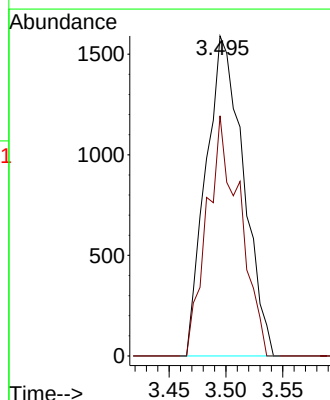
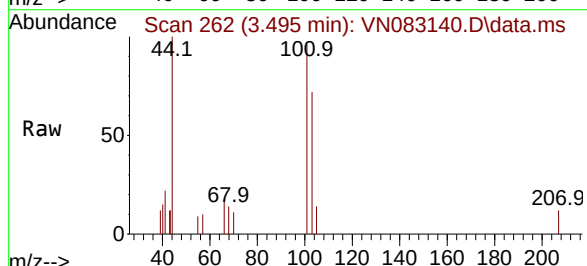
Acq: 07 Aug 2024 12:34

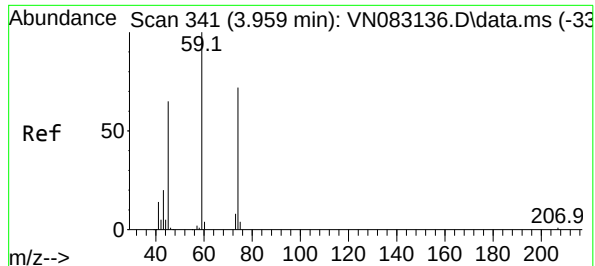
Tgt Ion:101 Resp: 3645

Ion Ratio Lower Upper

101 100

103 75.0 52.7 79.1





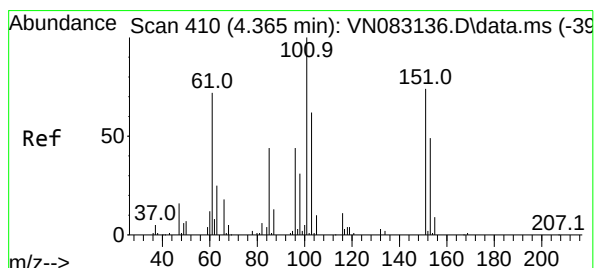
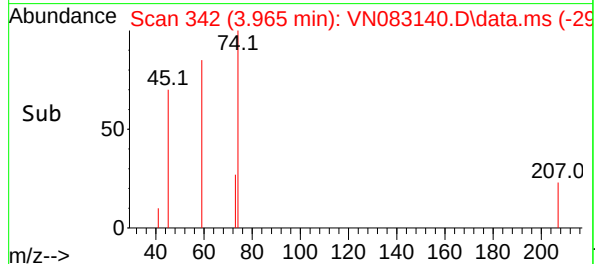
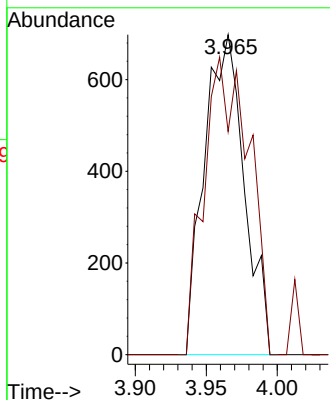
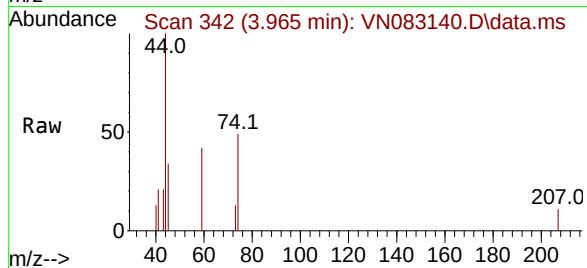
#8
Diethyl Ether
Concen: 0.929 ug/l
RT: 3.965 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 74 Resp: 1368
Ion Ratio Lower Upper
74 100
45 105.1 55.5 166.3

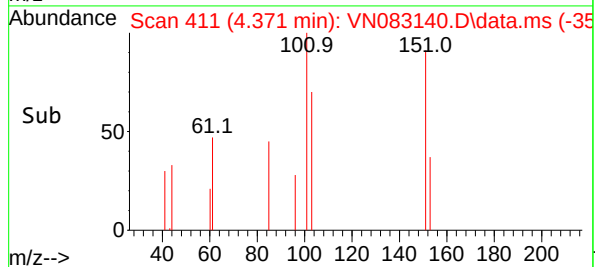
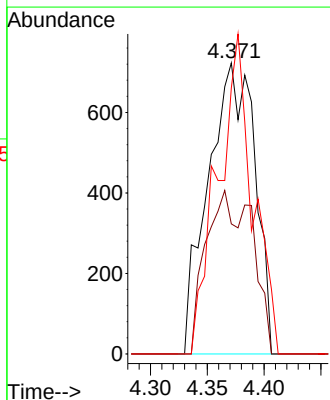
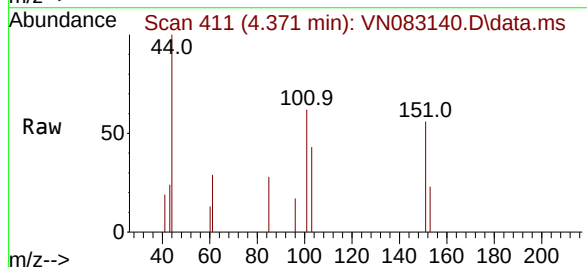
Manual Integrations
APPROVED

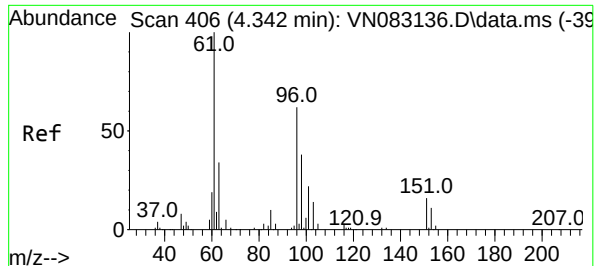
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.946 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:101 Resp: 2064
Ion Ratio Lower Upper
101 100
85 37.3 38.3 57.5#
151 82.8 59.3 88.9





#12

1,1-Dichloroethene

Concen: 1.038 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.000 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

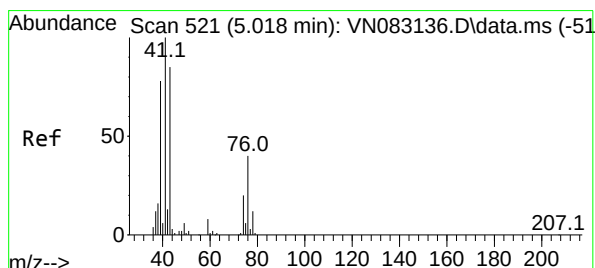
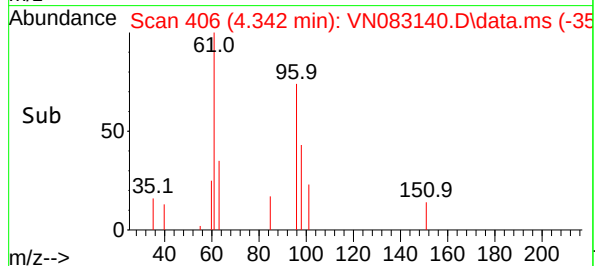
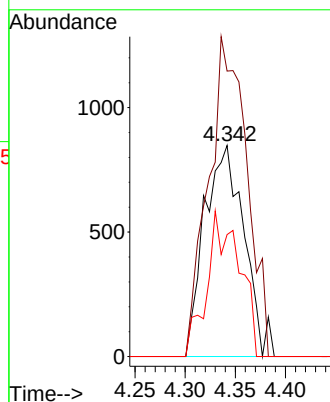
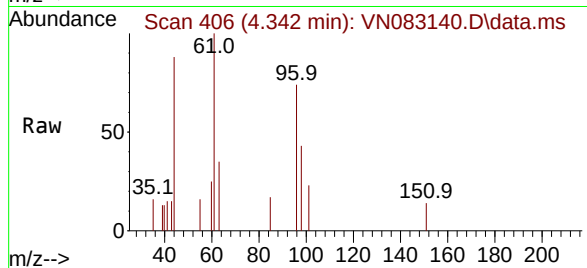
Tgt Ion:	96	Resp:	2328
Ion	Ratio	Lower	Upper
96	100		
61	135.3	149.7	224.5
98	57.8	50.1	75.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#14

Allyl chloride

Concen: 1.155 ug/l

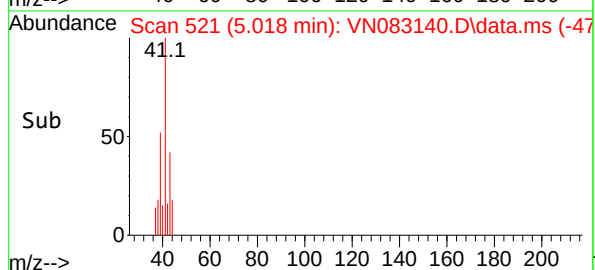
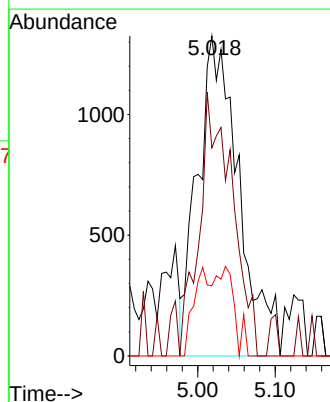
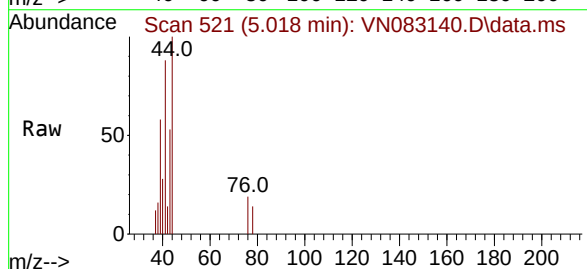
RT: 5.018 min Scan# 521

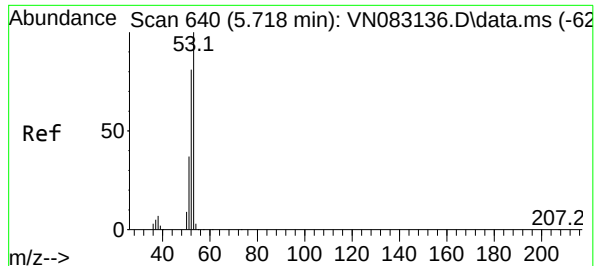
Delta R.T. 0.000 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

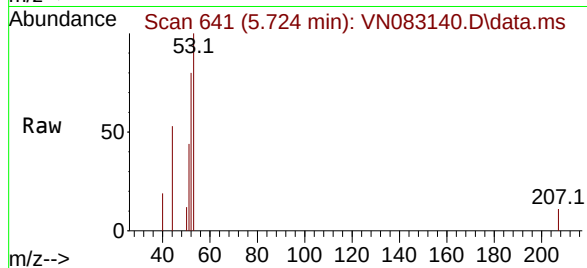
Tgt Ion:	41	Resp:	4894
Ion	Ratio	Lower	Upper
41	100		
39	65.9	67.8	101.6
76	11.9	25.8	38.8





#15
Acrylonitrile
Concen: 5.036 ug/l
RT: 5.724 min Scan# 640
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

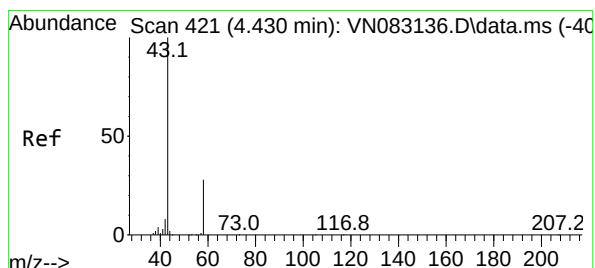
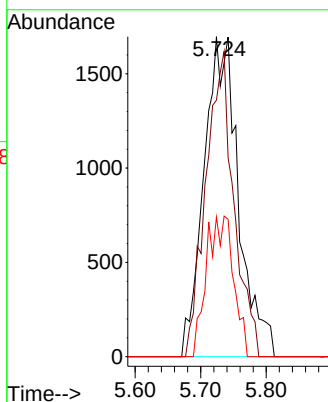
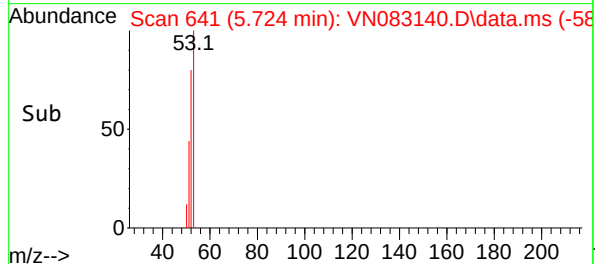
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion: 53 Resp: 6198
Ion Ratio Lower Upper
53 100
52 77.5 66.6 100.0
51 34.3 30.1 45.1

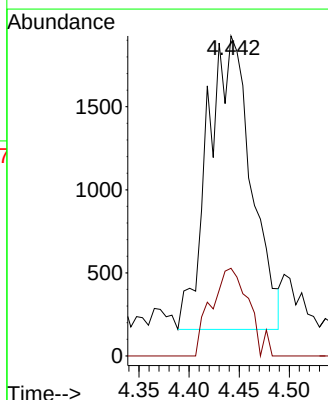
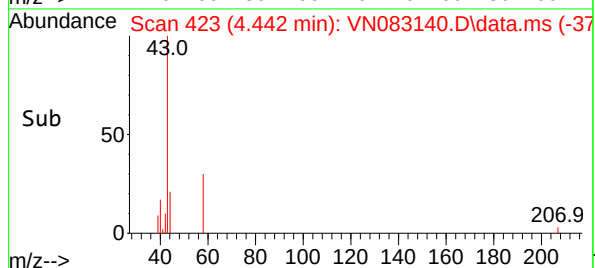
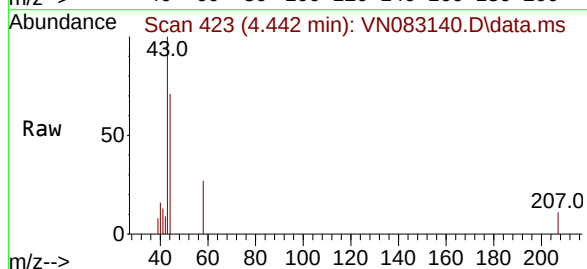
Manual Integrations
APPROVED

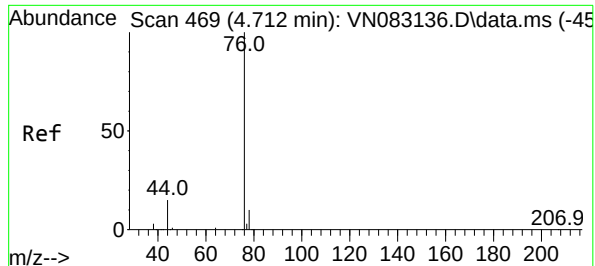
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#16
Acetone
Concen: 4.765 ug/l
RT: 4.442 min Scan# 423
Delta R.T. 0.012 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 43 Resp: 5369
Ion Ratio Lower Upper
43 100
58 29.9 21.8 32.6





#17

Carbon Disulfide

Concen: 1.159 ug/l

RT: 4.718 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 76 Resp: 760

Ion Ratio Lower Upper

76 100

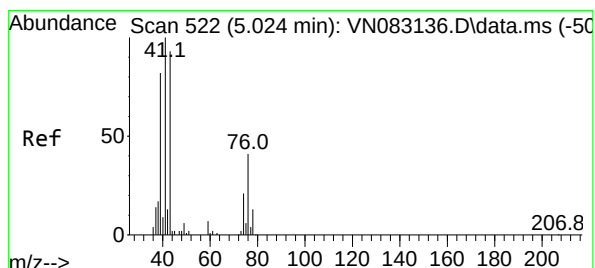
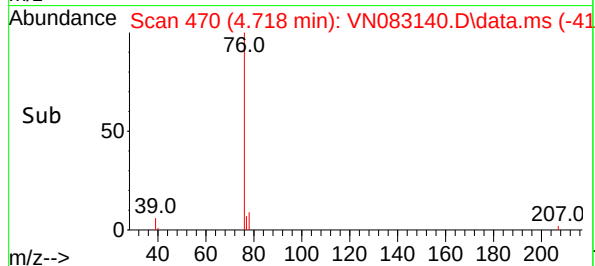
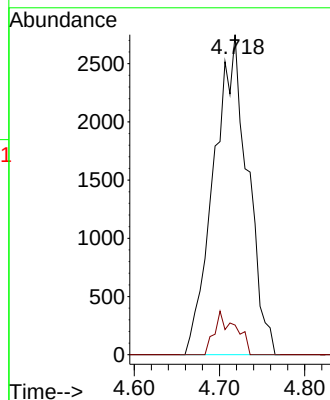
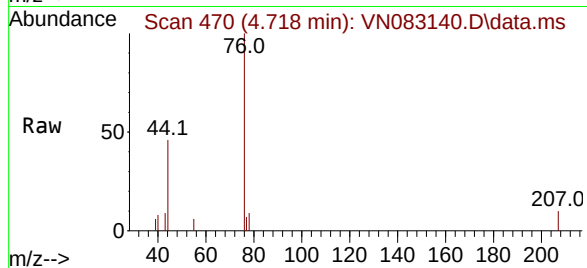
78 9.3 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#18

Methyl Acetate

Concen: 1.188 ug/l

RT: 5.036 min Scan# 524

Delta R.T. 0.012 min

Lab File: VN083140.D

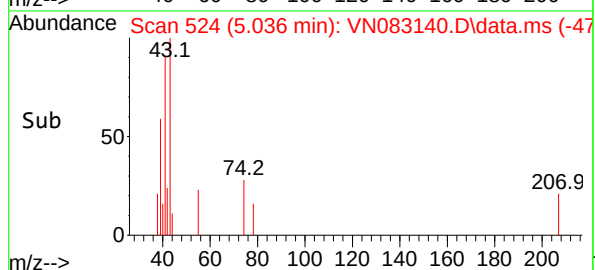
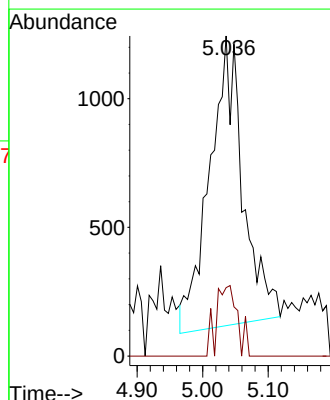
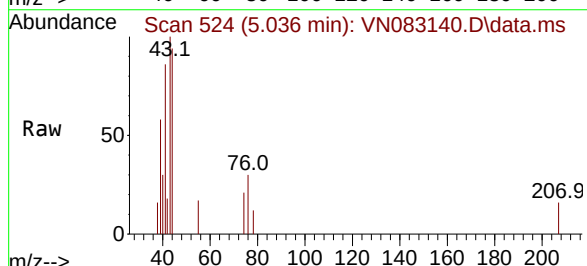
Acq: 07 Aug 2024 12:34

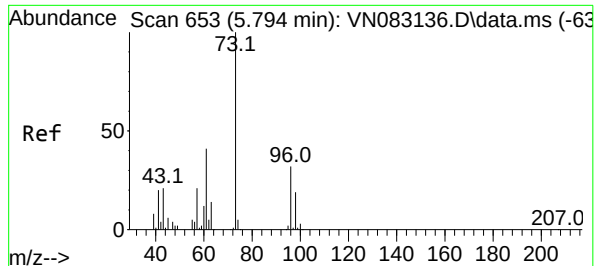
Tgt Ion: 43 Resp: 3987

Ion Ratio Lower Upper

43 100

74 15.5 16.3 24.5#





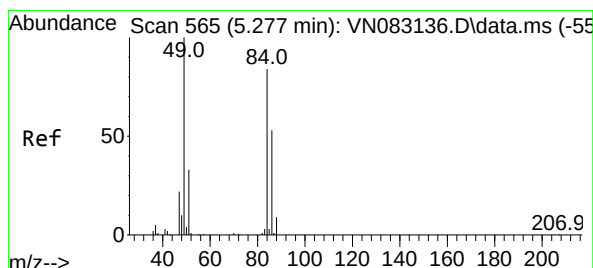
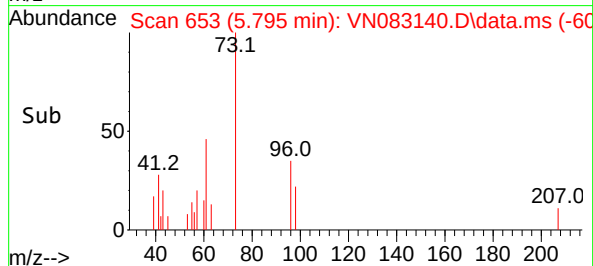
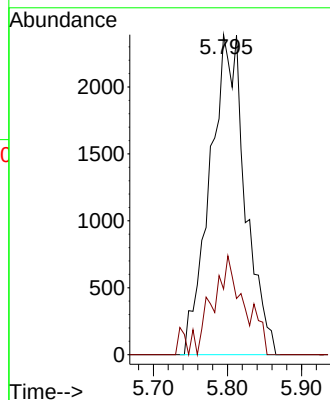
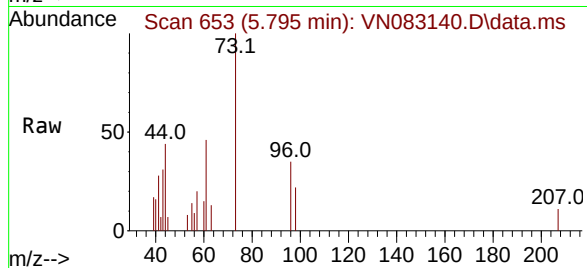
#19
Methyl tert-butyl Ether
Concen: 0.976 ug/l
RT: 5.795 min Scan# 61
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tgt Ion: 73 Resp: 7900
Ion Ratio Lower Upper
73 100
57 20.5 17.9 26.9

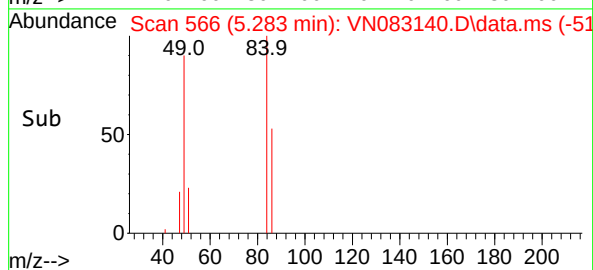
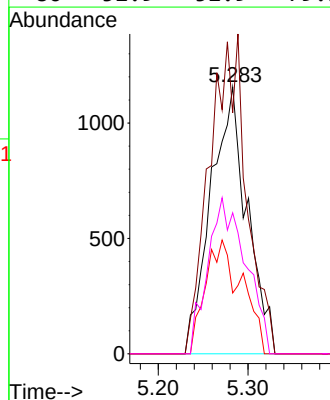
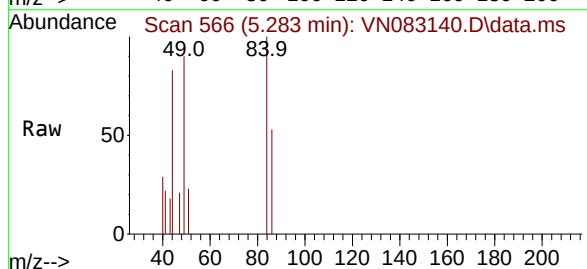
Manual Integrations
APPROVED

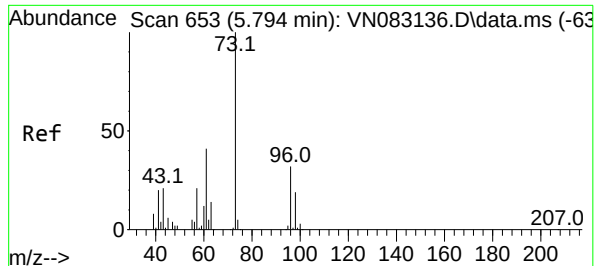
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#20
Methylene Chloride
Concen: 1.255 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

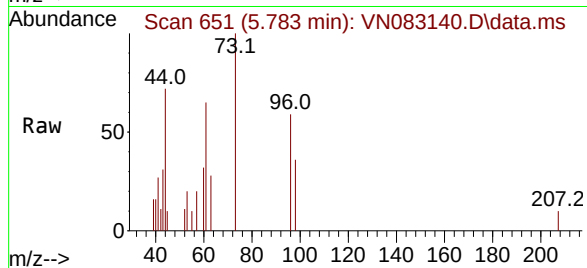
Tgt Ion: 84 Resp: 3255
Ion Ratio Lower Upper
84 100
49 90.3 119.6 179.4#
51 22.8 34.8 52.2#
86 52.9 52.9 79.3#





#21
trans-1,2-Dichloroethene
Concen: 1.046 ug/l
RT: 5.783 min Scan# 61
Delta R.T. -0.012 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

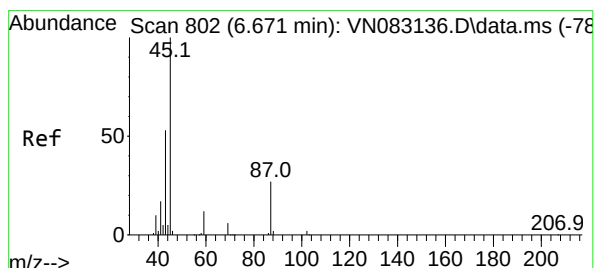
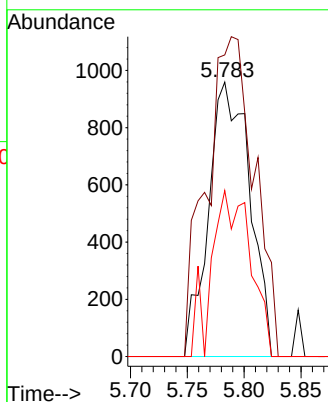
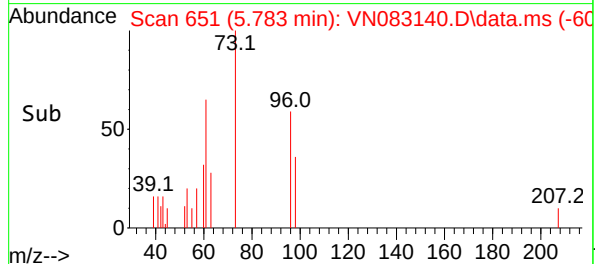
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion: 96 Resp: 242
Ion Ratio Lower Upper
96 100
61 109.9 123.4 185.2
98 60.5 49.3 73.9

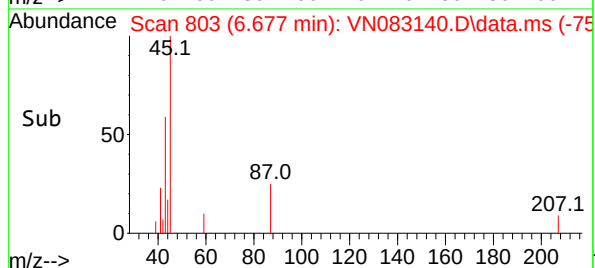
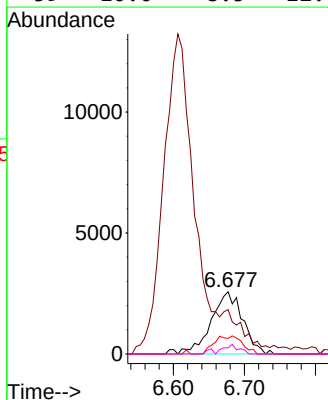
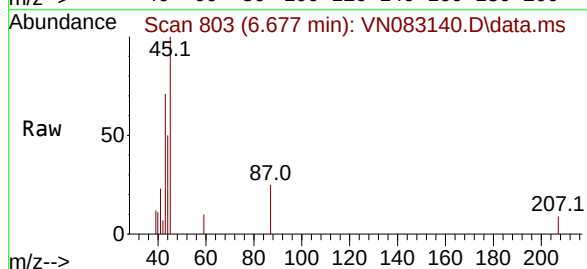
Manual Integrations
APPROVED

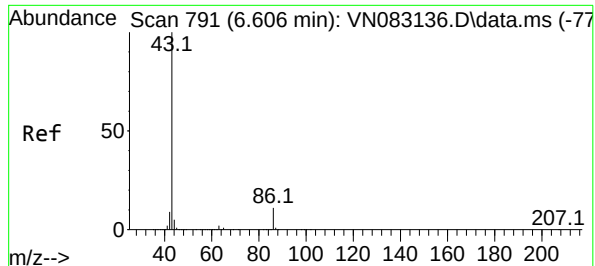
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#22
Diisopropyl ether
Concen: 0.988 ug/l
RT: 6.677 min Scan# 803
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 45 Resp: 7871
Ion Ratio Lower Upper
45 100
43 61.5 44.0 66.0
87 24.9 19.7 29.5
59 10.0 8.5 12.7





#23

Vinyl Acetate

Concen: 4.783 ug/l

RT: 6.606 min Scan# 791

Delta R.T. 0.000 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 43 Resp: 3904

Ion Ratio Lower Upper

43 100

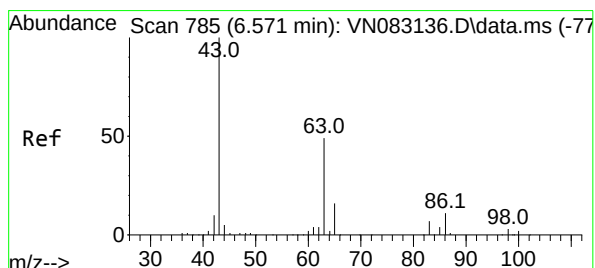
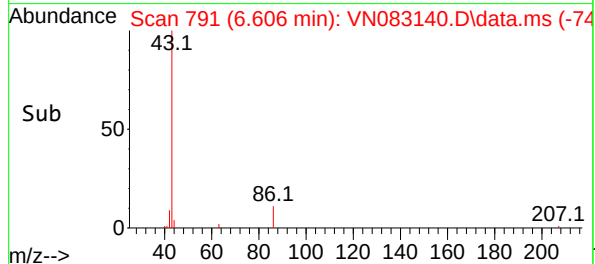
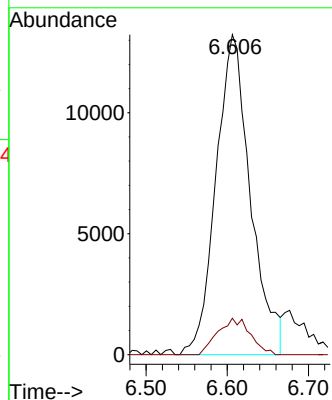
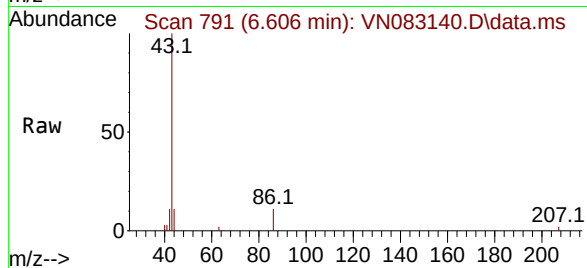
86 11.4 7.3 10.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#24

1,1-Dichloroethane

Concen: 0.965 ug/l

RT: 6.571 min Scan# 785

Delta R.T. 0.000 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

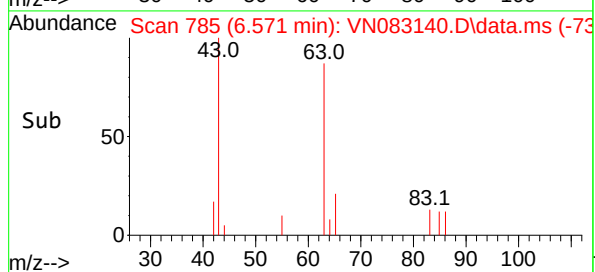
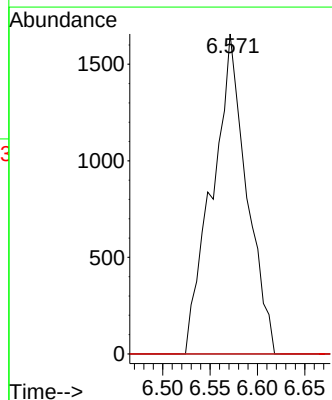
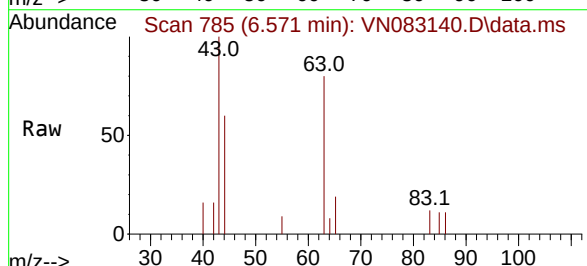
Tgt Ion: 63 Resp: 4189

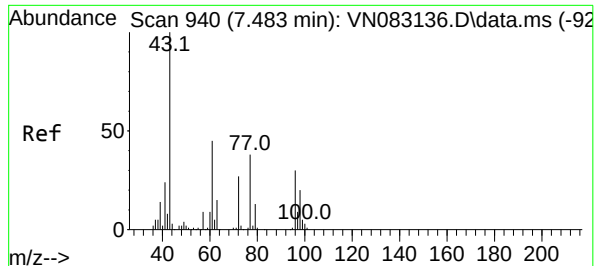
Ion Ratio Lower Upper

63 100

98 0.0 3.3 9.9#

100 0.0 2.0 6.0#





#25

2-Butanone

Concen: 5.297 ug/l

RT: 7.495 min Scan# 942

Delta R.T. 0.012 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 43 Resp: 9164

Ion Ratio Lower Upper

43 100

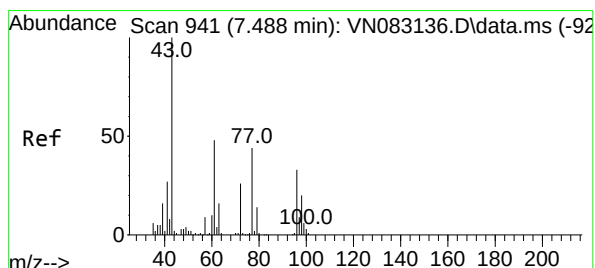
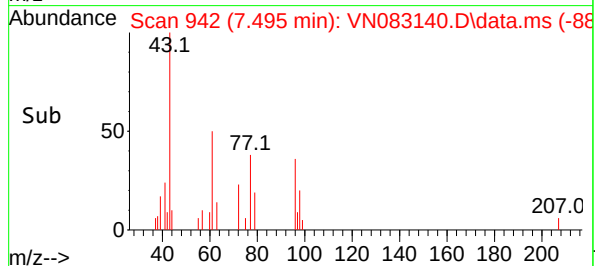
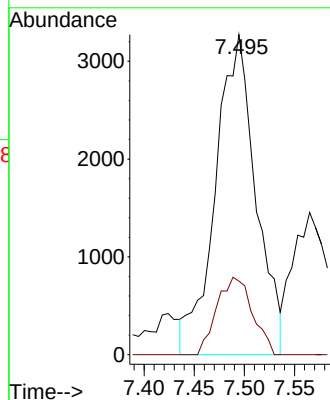
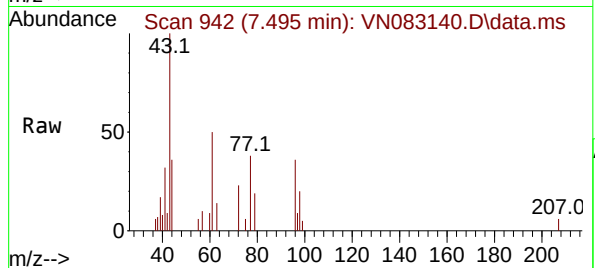
72 25.9 18.2 27.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#26

2,2-Dichloropropane

Concen: 0.928 ug/l

RT: 7.489 min Scan# 941

Delta R.T. 0.000 min

Lab File: VN083140.D

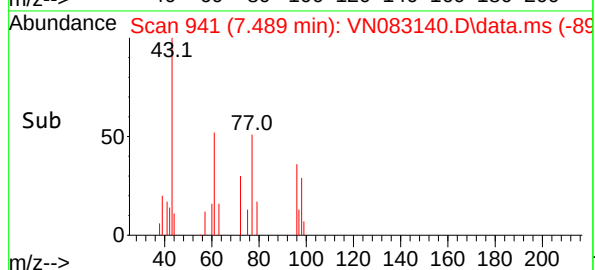
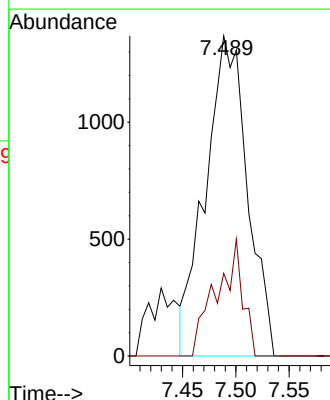
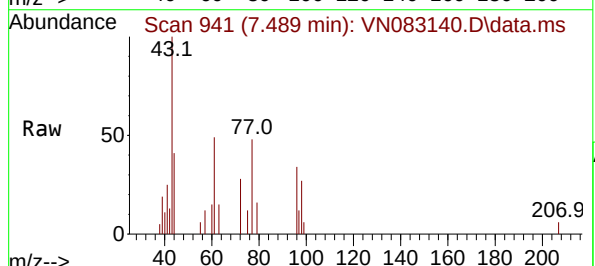
Acq: 07 Aug 2024 12:34

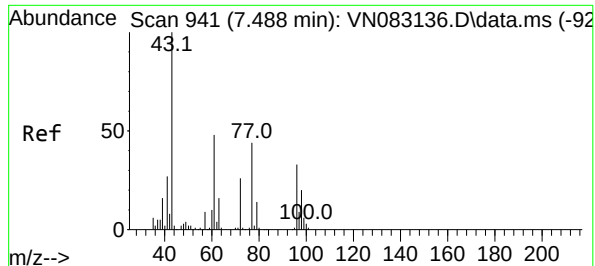
Tgt Ion: 77 Resp: 3741

Ion Ratio Lower Upper

77 100

97 22.9 10.3 30.9





#27

cis-1,2-Dichloroethene

Concen: 1.044 ug/l

RT: 7.495 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

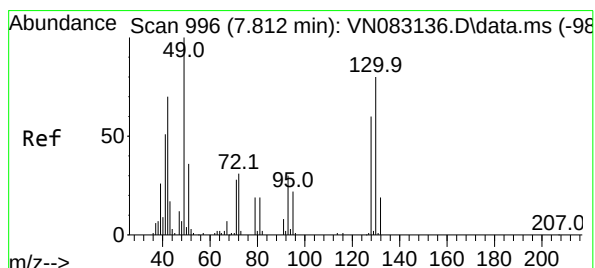
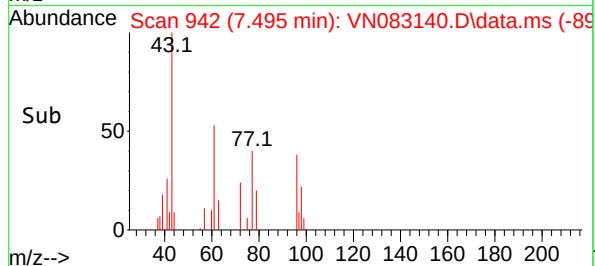
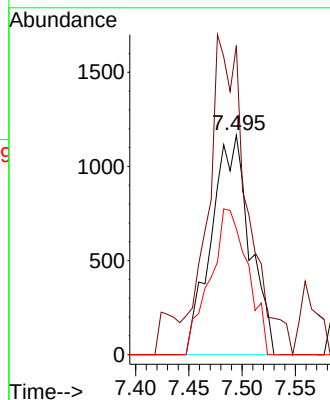
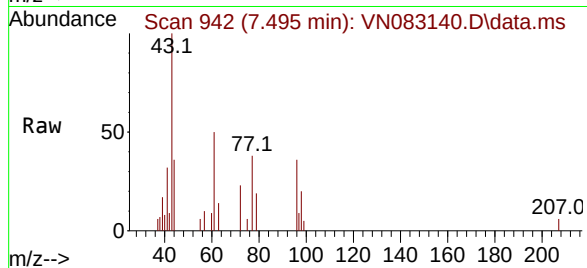
Tgt Ion:	96	Resp:	2919
Ion	Ratio	Lower	Upper
96	100		
61	146.7	0.0	329.6
98	65.4	0.0	128.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#28

Bromochloromethane

Concen: 1.061 ug/l

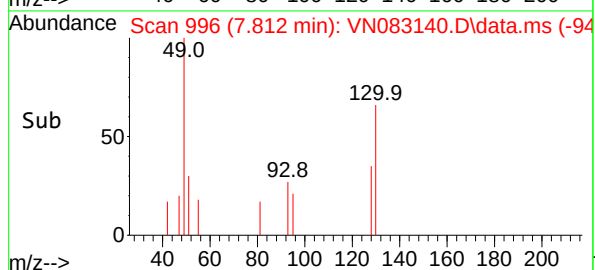
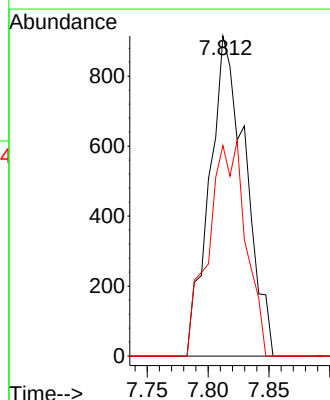
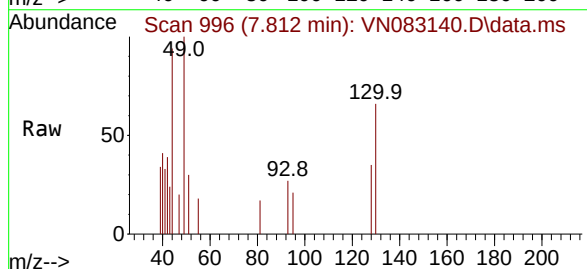
RT: 7.812 min Scan# 996

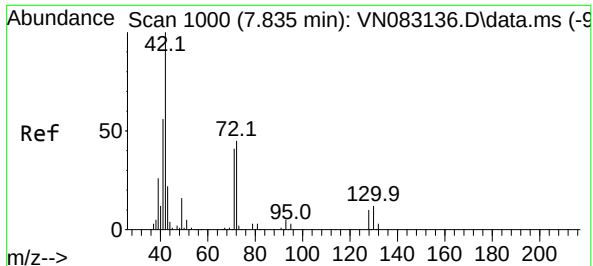
Delta R.T. 0.000 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Tgt Ion:	49	Resp:	1883
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	69.5	50.5	75.7





#29

Tetrahydrofuran

Concen: 4.909 ug/l

RT: 7.842 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

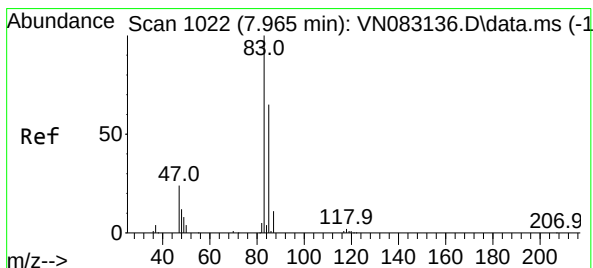
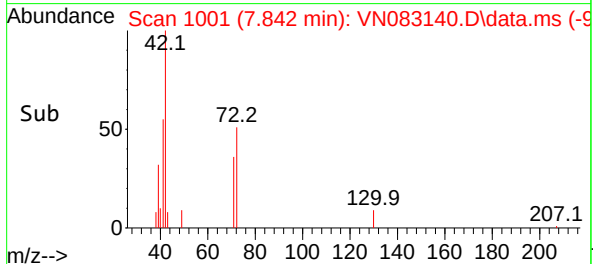
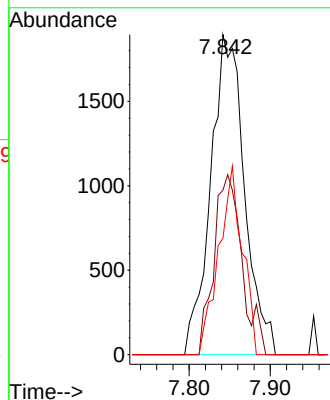
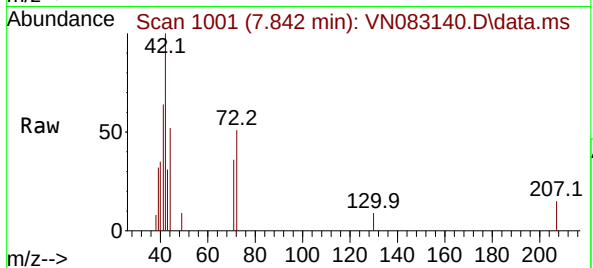
Tgt Ion:	42	Resp:	5490
Ion Ratio	Lower	Upper	
42	100		
72	46.5	30.0	45.0
71	41.2	28.3	42.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#30

Chloroform

Concen: 0.988 ug/l

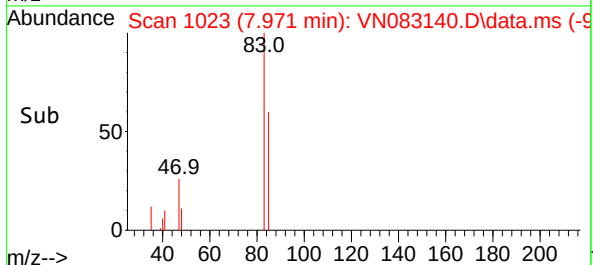
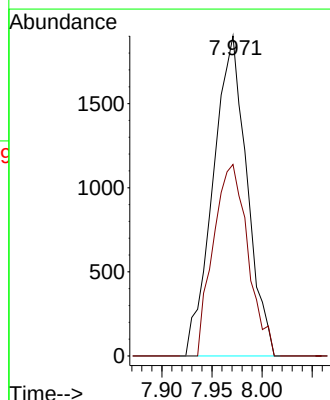
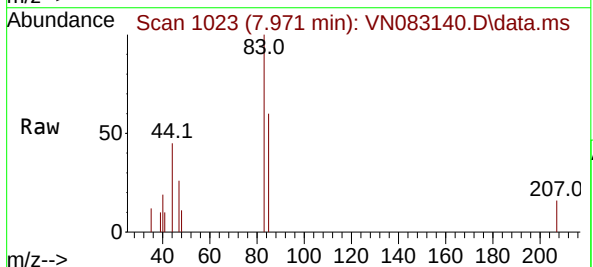
RT: 7.971 min Scan# 1023

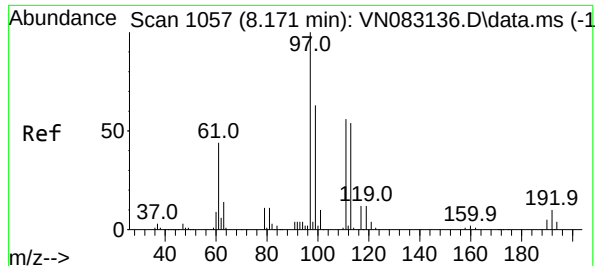
Delta R.T. 0.006 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Tgt Ion:	83	Resp:	4457
Ion Ratio	Lower	Upper	
83	100		
85	59.8	50.9	76.3





#32

1,1,1-Trichloroethane

Concen: 0.955 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.000 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 97 Resp: 4070

Ion Ratio Lower Upper

97 100

99 0.0 52.0 78.0

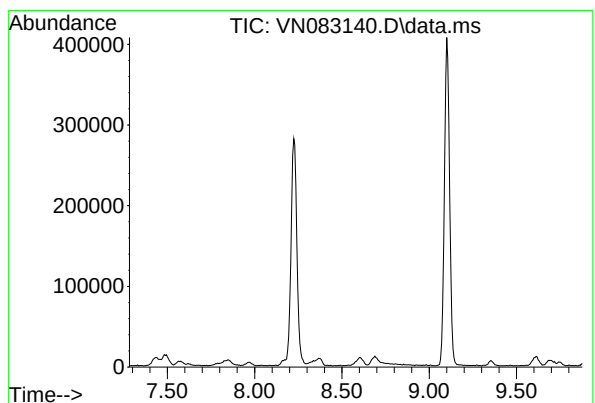
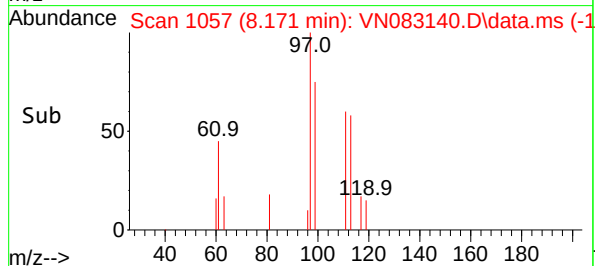
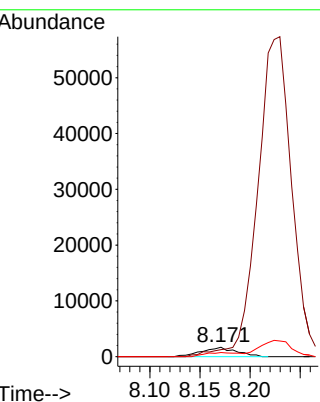
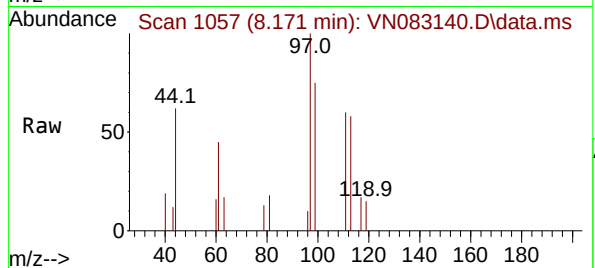
61 44.6 42.1 63.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 8.58 min

Lab File: VN083140.D

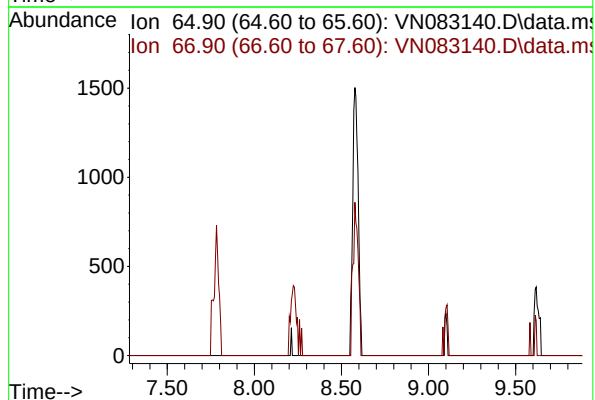
Acq: 07 Aug 2024 12:34

Tgt Ion: 65

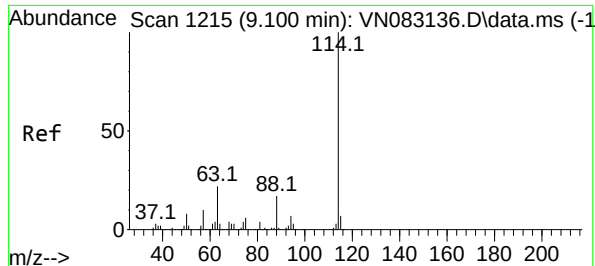
Sig Exp Ratio

65 100

67 52.2



Ion 66.90 (66.60 to 67.60): VN083140.D\data.ms



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:114 Resp: 347394

Ion Ratio Lower Upper

114 100

63 22.6 0.0 44.6

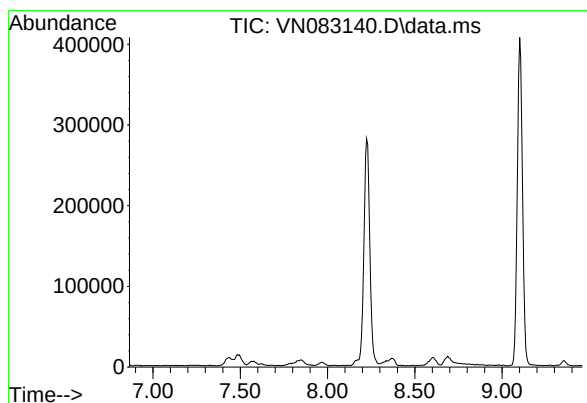
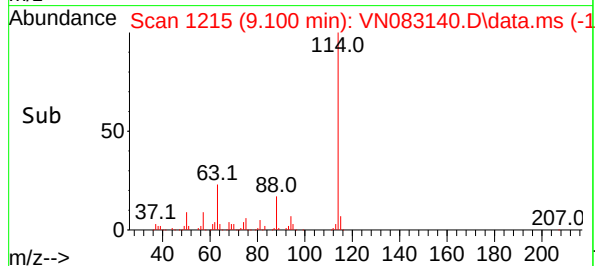
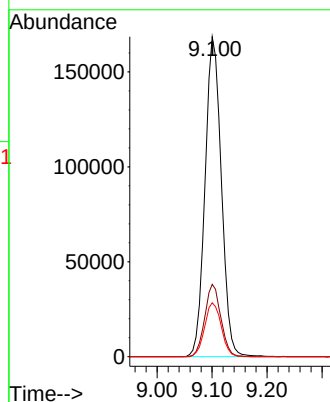
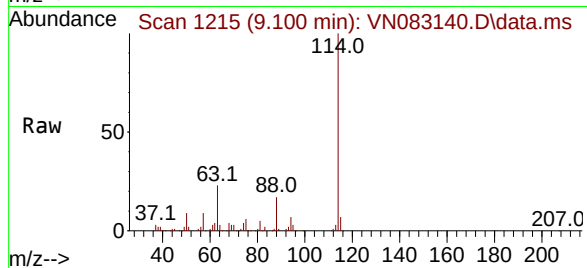
88 16.9 0.0 31.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 8.16 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

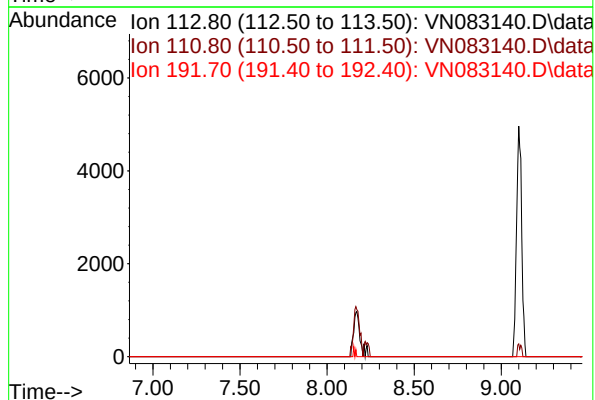
Tgt Ion: 113

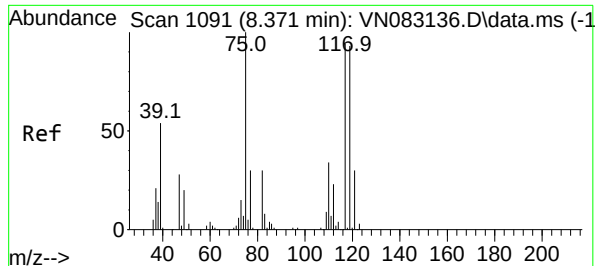
Sig Exp Ratio

113 100

111 103.0

192 18.6





#36

1,1-Dichloropropene

Concen: 1.034 ug/l

RT: 8.377 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

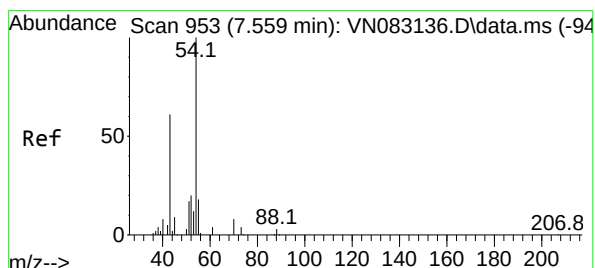
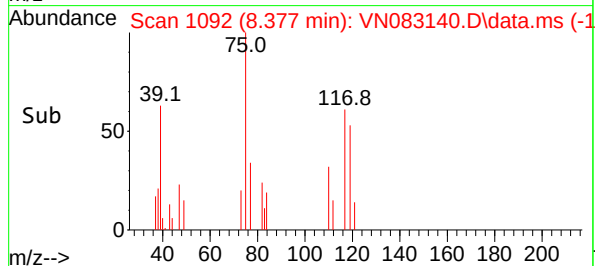
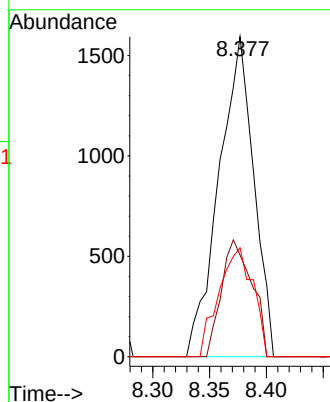
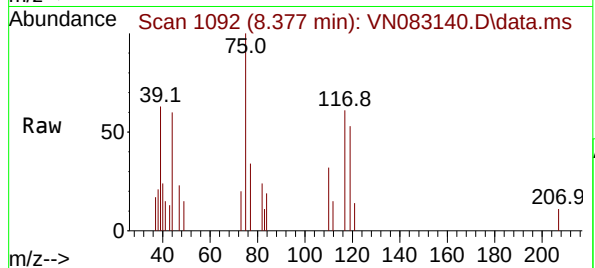
Tgt Ion:	75	Resp:	339
Ion	Ratio	Lower	Upper
75	100		
110	32.0	16.3	48.9
77	33.3	24.6	37.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#37

Ethyl Acetate

Concen: 1.257 ug/l

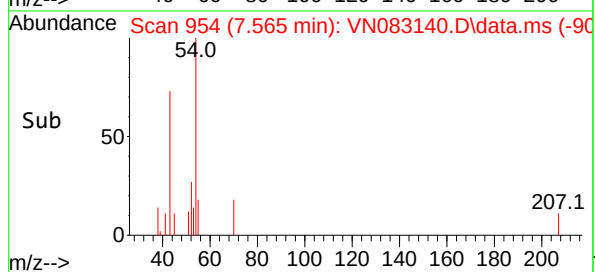
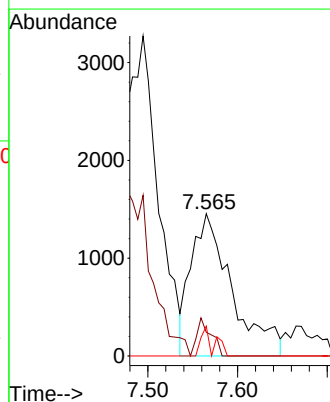
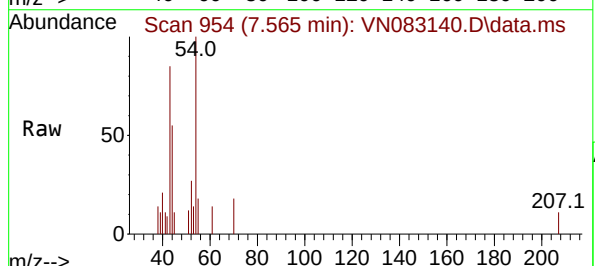
RT: 7.565 min Scan# 954

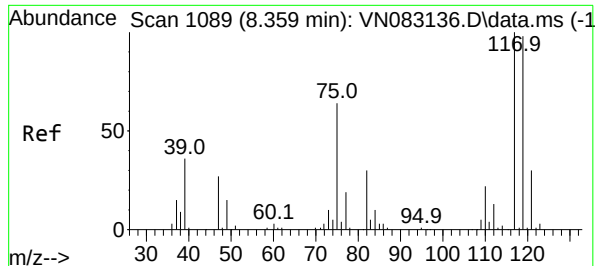
Delta R.T. 0.006 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Tgt Ion:	43	Resp:	4617
Ion	Ratio	Lower	Upper
43	100		
61	9.2	9.3	13.9#
70	3.8	7.0	10.6#





#38

Carbon Tetrachloride

Concen: 0.926 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:117 Resp: 342

Ion Ratio Lower Upper

117 100

119 79.9 74.9 112.3

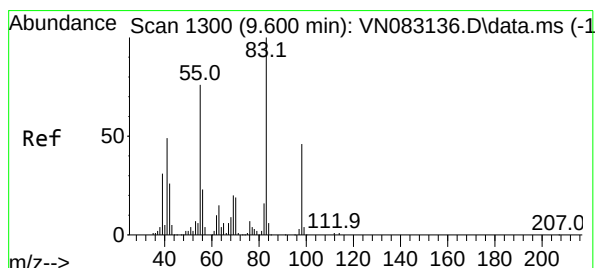
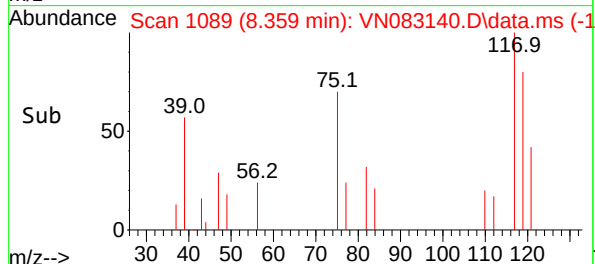
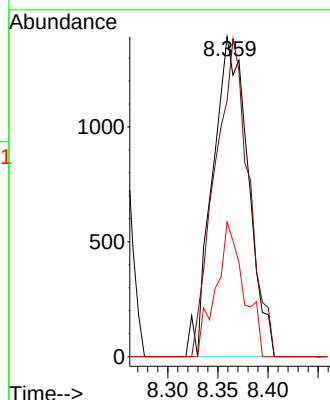
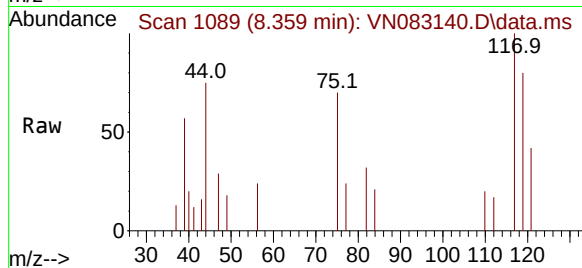
121 42.0 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#39

Methylcyclohexane

Concen: 0.986 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. 0.000 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

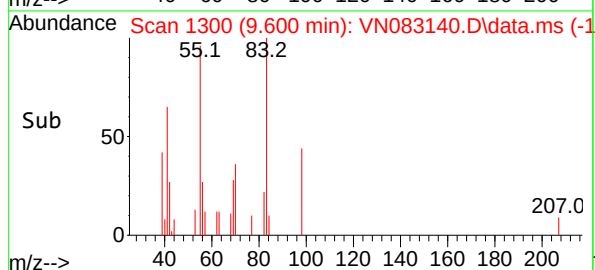
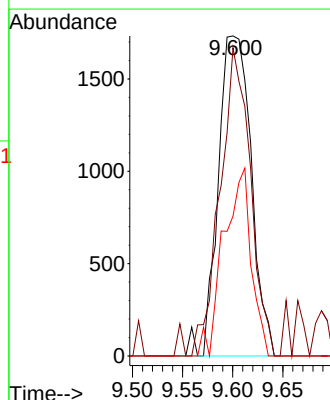
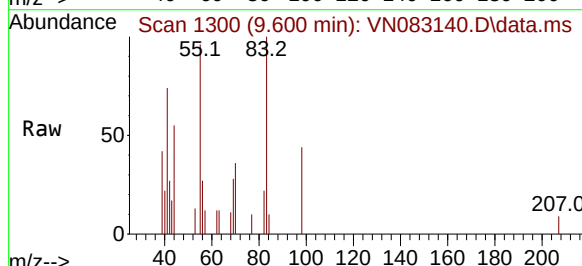
Tgt Ion: 83 Resp: 3974

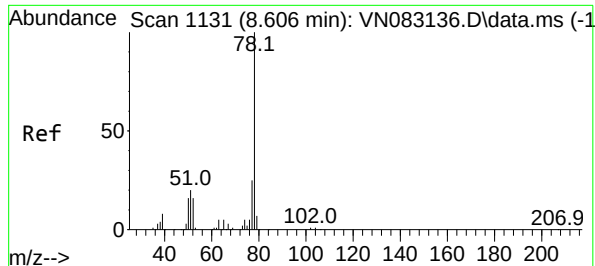
Ion Ratio Lower Upper

83 100

55 96.3 66.4 99.6

98 43.7 40.7 61.1





#40

Benzene

Concen: 0.955 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 78 Resp: 9334

Ion Ratio Lower Upper

78 100

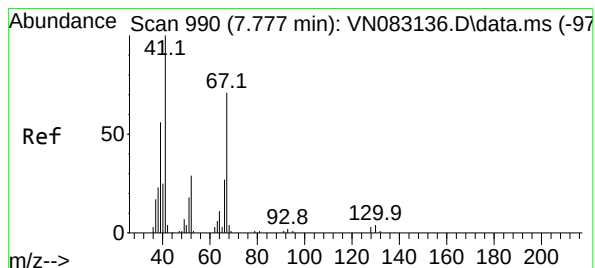
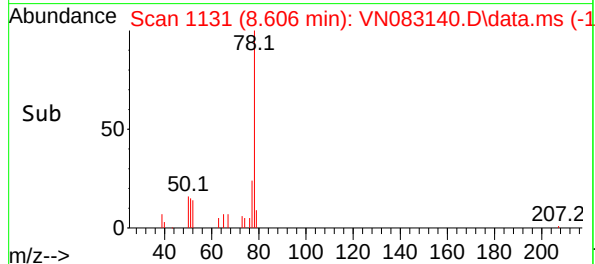
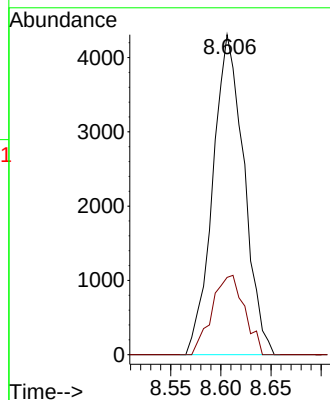
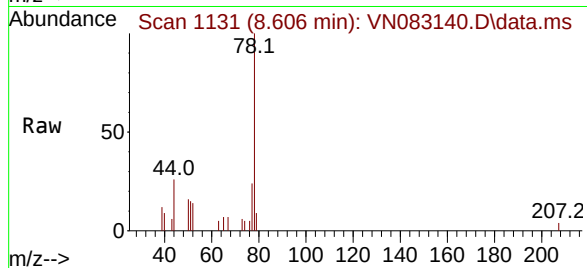
77 24.2 19.0 28.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#41

Methacrylonitrile

Concen: 1.254 ug/l

RT: 7.783 min Scan# 991

Delta R.T. 0.006 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Tgt Ion: 41 Resp: 2618

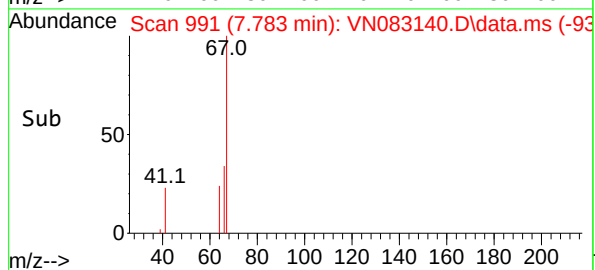
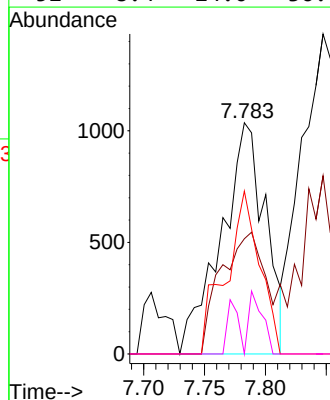
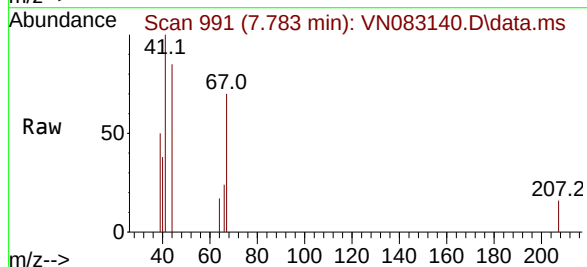
Ion Ratio Lower Upper

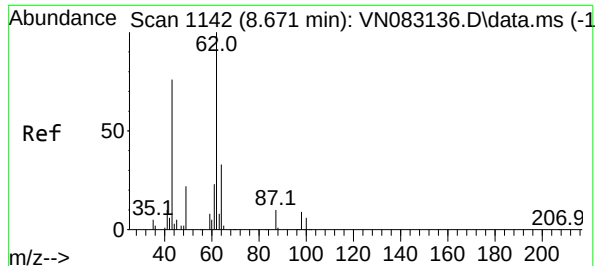
41 100

39 52.4 45.5 68.3

67 54.2 50.5 75.7

52 8.4 24.0 36.0#





#42

1,2-Dichloroethane

Concen: 0.971 ug/l

RT: 8.677 min Scan# 1142

Delta R.T. 0.006 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

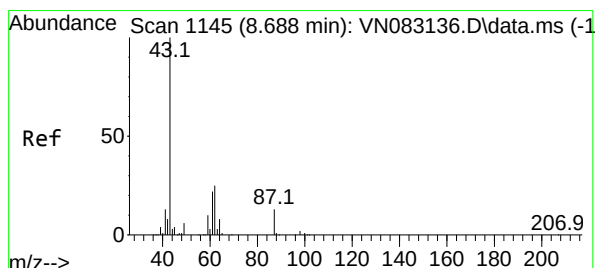
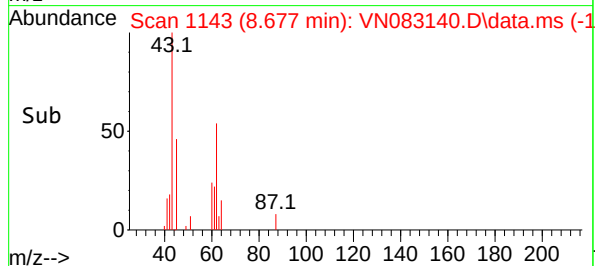
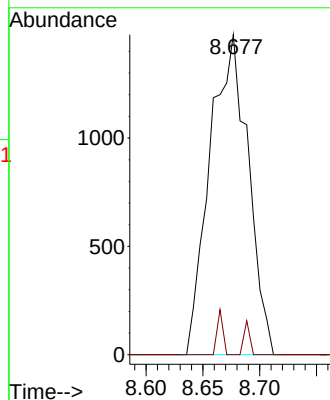
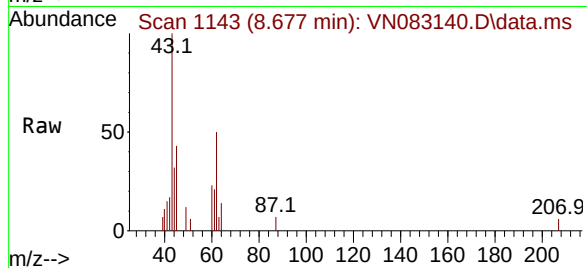
Tgt Ion	62	98
Ratio	100	1.6
Lower		0.0
Upper		15.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#43

Isopropyl Acetate

Concen: 0.753 ug/l

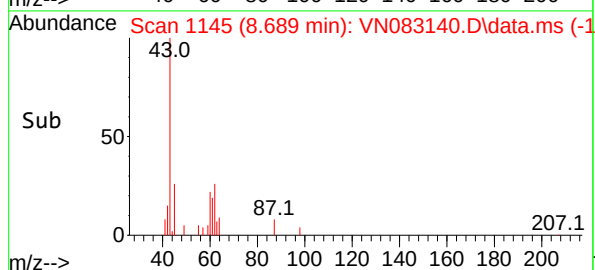
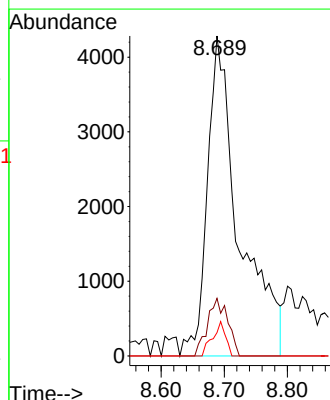
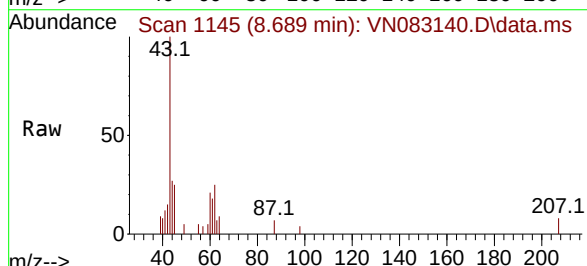
RT: 8.689 min Scan# 1145

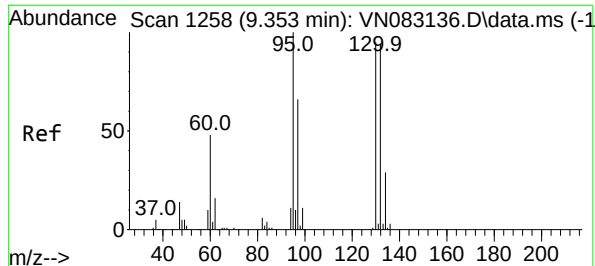
Delta R.T. 0.001 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Tgt Ion	43	61	87
Ratio	100	11.5	4.4
Lower		17.8	8.2
Upper		26.6#	12.2#





#44

Trichloroethene

Concen: 0.925 ug/l

RT: 9.359 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:130 Resp: 215

Ion Ratio Lower Upper

130 100

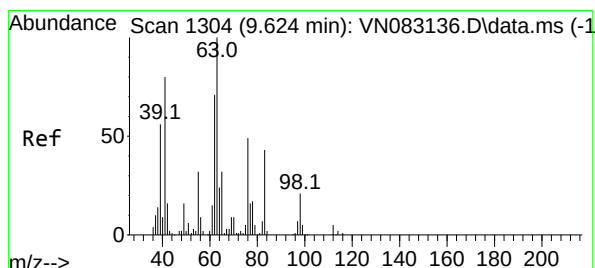
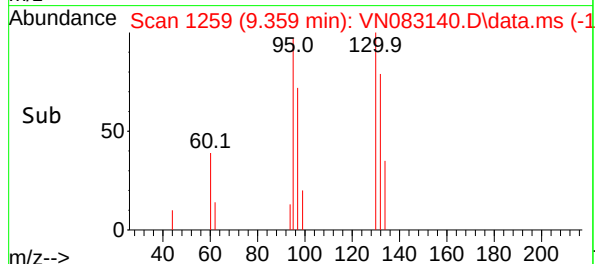
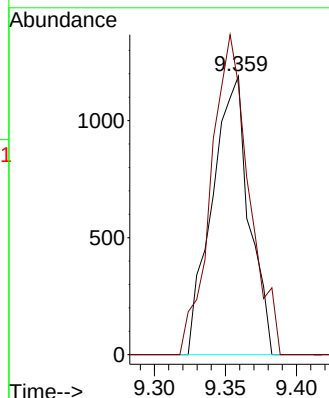
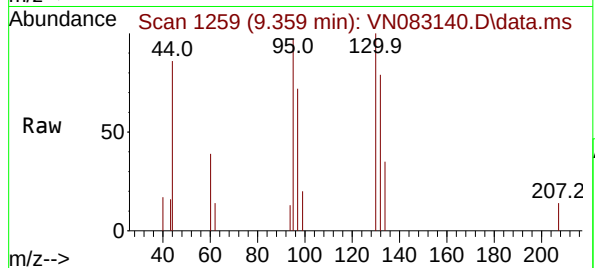
95 96.7 0.0 197.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#45

1,2-Dichloropropane

Concen: 0.946 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.006 min

Lab File: VN083140.D

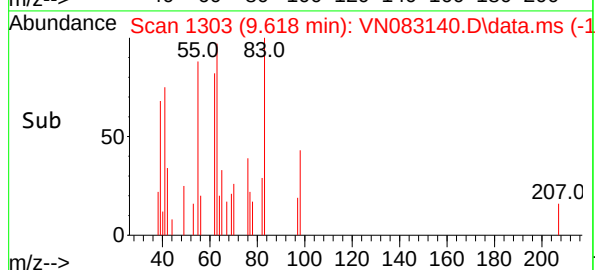
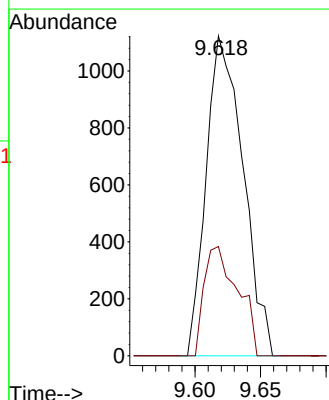
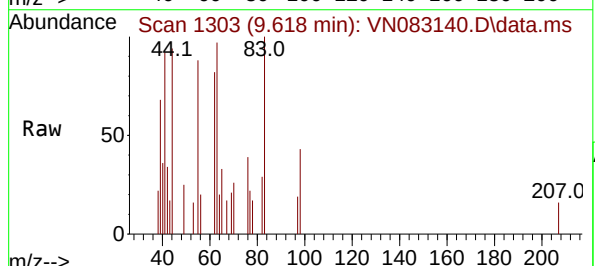
Acq: 07 Aug 2024 12:34

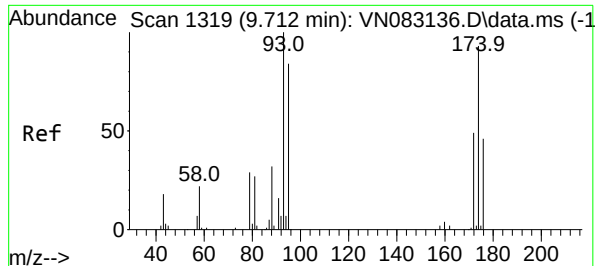
Tgt Ion: 63 Resp: 2194

Ion Ratio Lower Upper

63 100

65 34.2 24.4 36.6





#46

Dibromomethane

Concen: 0.911 ug/l

RT: 9.700 min Scan# 1319

Delta R.T. -0.012 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

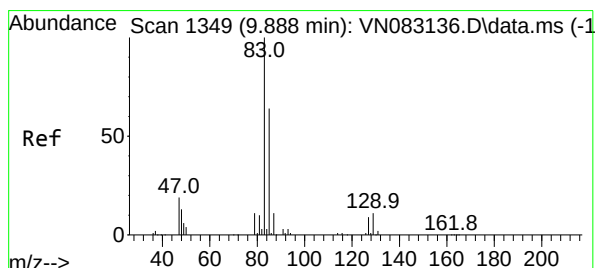
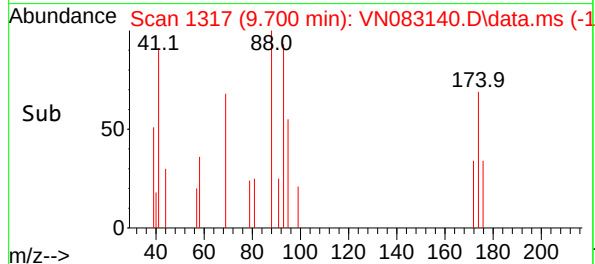
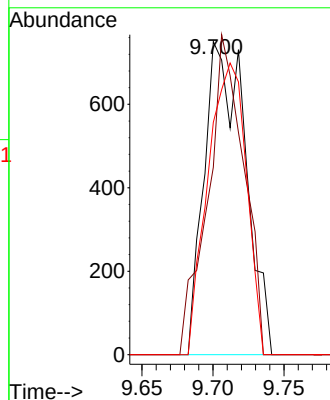
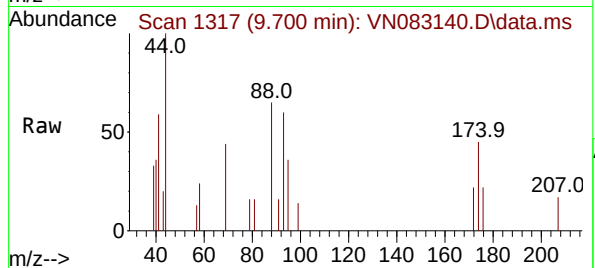
Tgt Ion:	93	Resp:	151
Ion	Ratio	Lower	Upper
93	100		
95	89.4	65.8	98.6
174	87.3	71.7	107.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#47

Bromodichloromethane

Concen: 1.015 ug/l

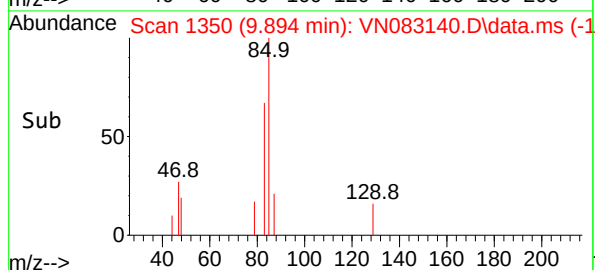
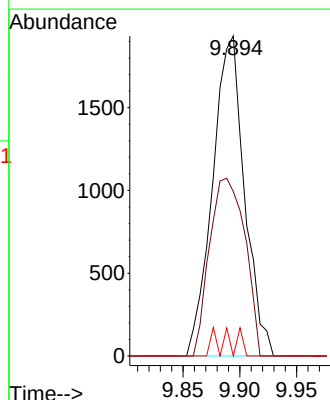
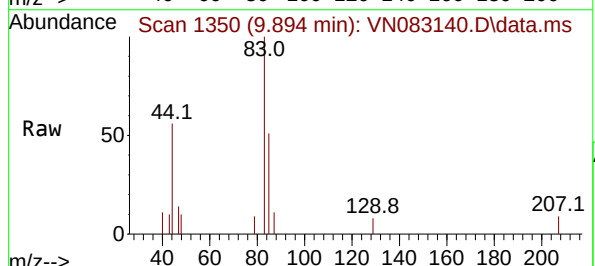
RT: 9.894 min Scan# 1350

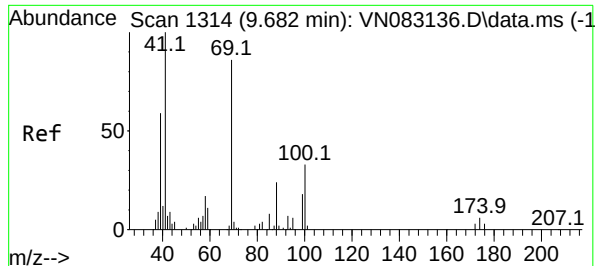
Delta R.T. 0.006 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Tgt Ion:	83	Resp:	3783
Ion	Ratio	Lower	Upper
83	100		
85	51.4	51.1	76.7
127	0.0	7.2	10.8





#48

Methyl methacrylate

Concen: 1.159 ug/l

RT: 9.683 min Scan# 1314

Delta R.T. 0.000 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

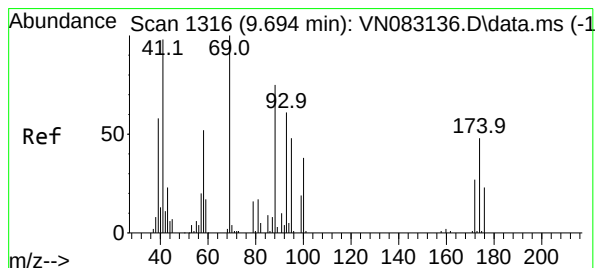
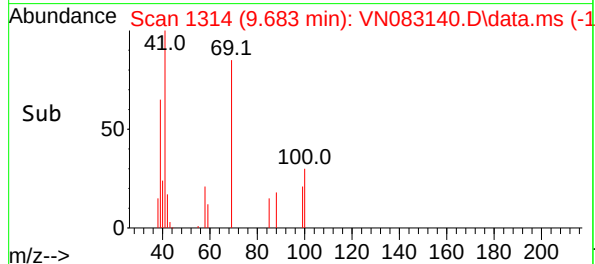
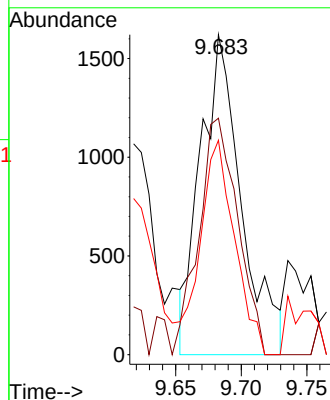
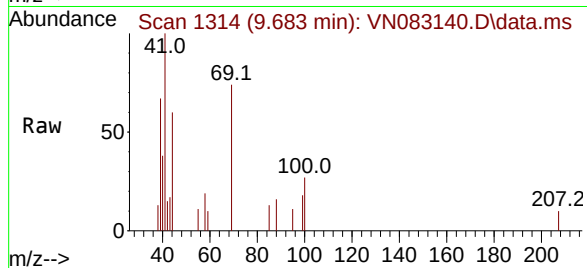
Tgt Ion:	41	Resp:	3518
Ion	Ratio	Lower	Upper
41	100		
69	70.6	56.3	84.5
39	57.3	50.3	75.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#49

1,4-Dioxane

Concen: 19.880 ug/l

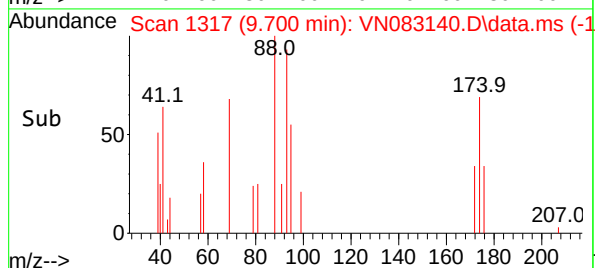
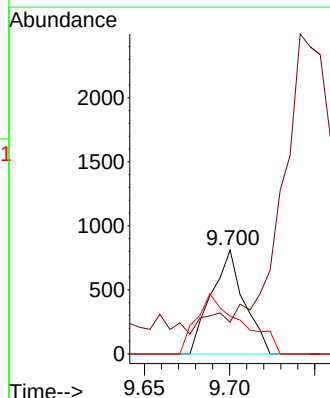
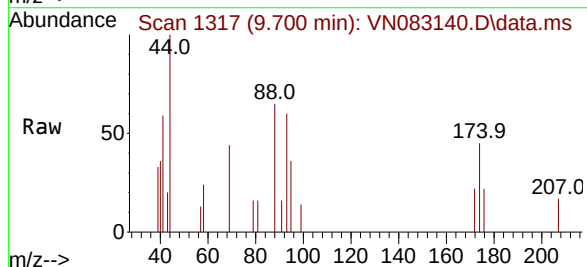
RT: 9.700 min Scan# 1317

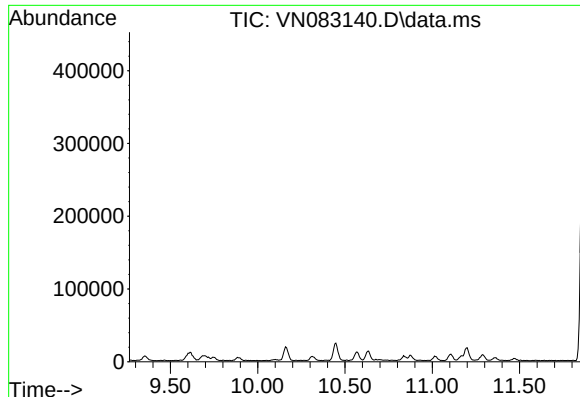
Delta R.T. 0.006 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Tgt Ion:	88	Resp:	1089
Ion	Ratio	Lower	Upper
88	100		
43	0.0	27.8	41.8#
58	79.4	59.4	89.0





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

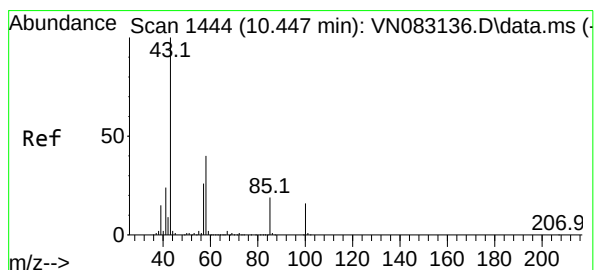
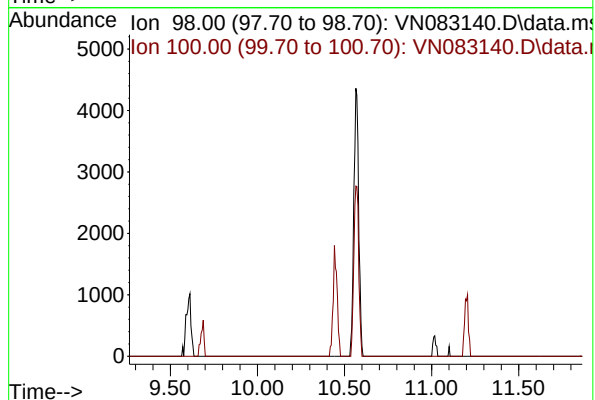
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 98
Sig Exp Ratio
98 100
100 64.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

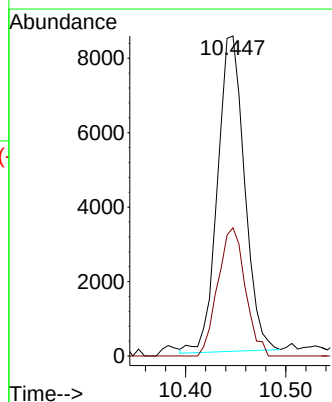
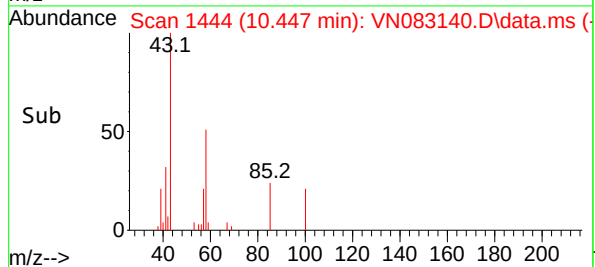
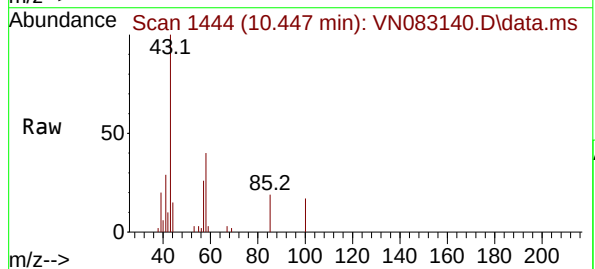
Manual Integrations
APPROVED

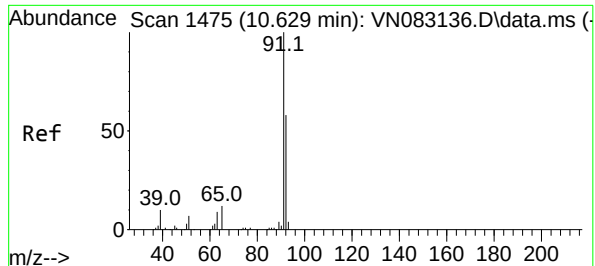
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#51
4-Methyl-2-Pentanone
Concen: 4.570 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

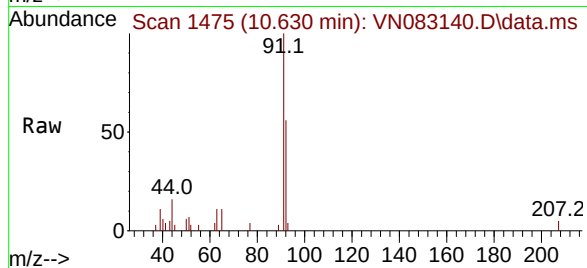
Tgt Ion: 43 Resp: 15872
Ion Ratio Lower Upper
43 100
58 41.1 28.2 42.4





#52
Toluene
Concen: 0.927 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

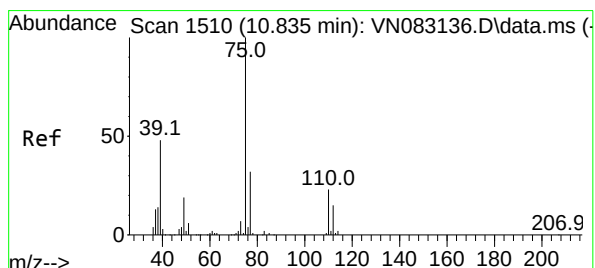
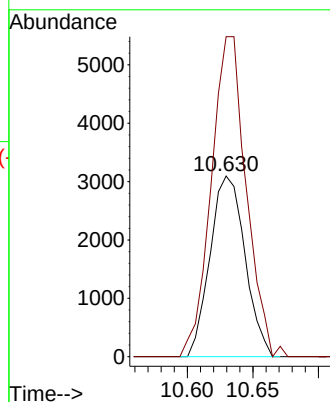
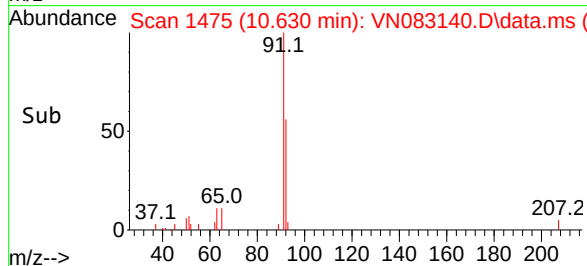
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion: 92 Resp: 572
Ion Ratio Lower Upper
92 100
91 178.1 139.4 209.0

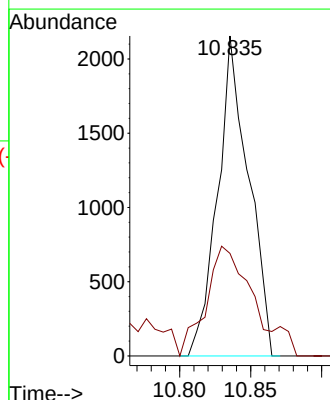
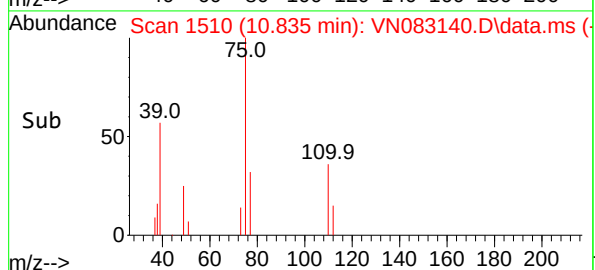
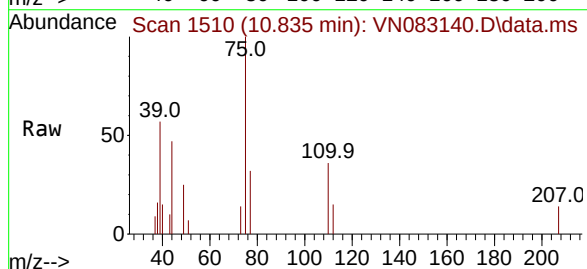
Manual Integrations
APPROVED

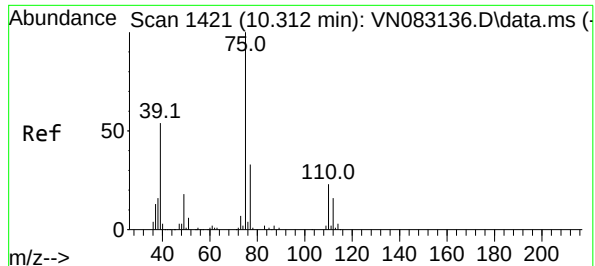
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#53
t-1,3-Dichloropropene
Concen: 0.851 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

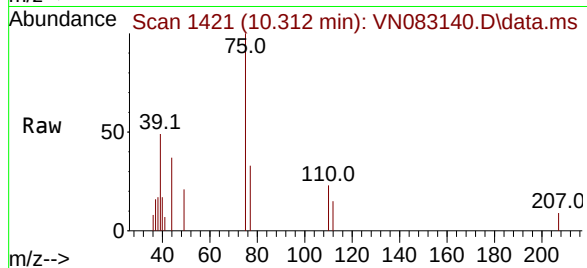
Tgt Ion: 75 Resp: 3260
Ion Ratio Lower Upper
75 100
77 32.0 25.7 38.5





#54
cis-1,3-Dichloropropene
Concen: 0.932 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

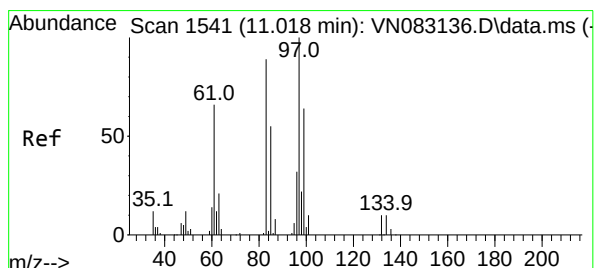
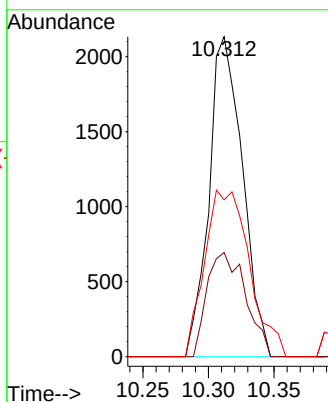
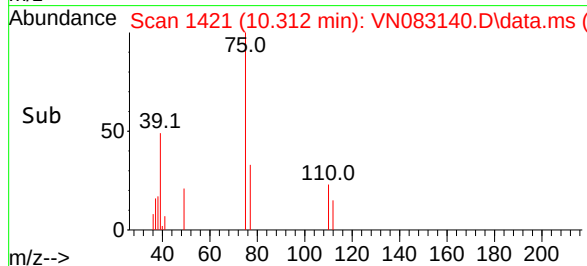
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion: 75 Resp: 379
Ion Ratio Lower Upper
75 100
77 32.5 24.3 36.5
39 49.0 50.5 75.7

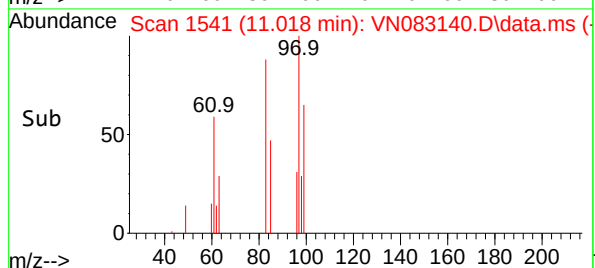
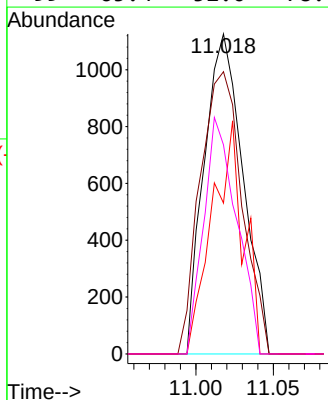
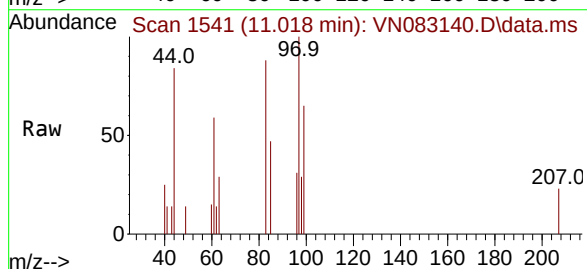
Manual Integrations
APPROVED

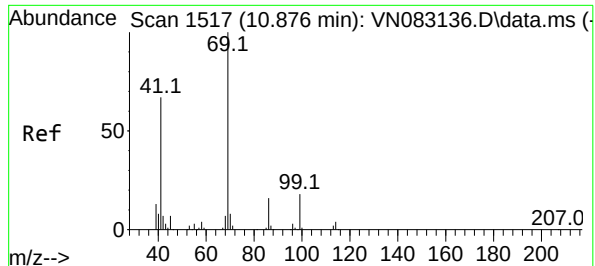
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#55
1,1,2-Trichloroethane
Concen: 0.887 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

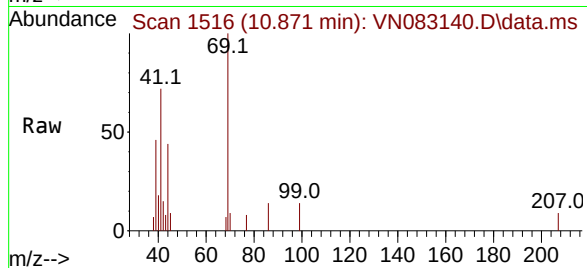
Tgt Ion: 97 Resp: 1963
Ion Ratio Lower Upper
97 100
83 88.2 71.4 107.0
85 47.2 45.8 68.6
99 65.4 52.0 78.0





#56
Ethyl methacrylate
Concen: 0.921 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

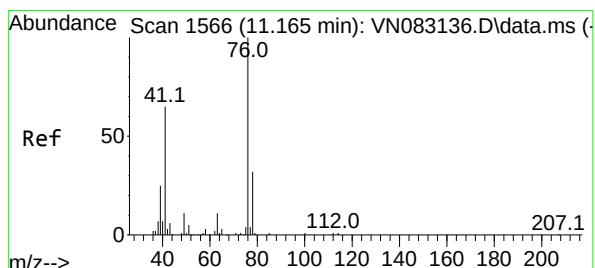
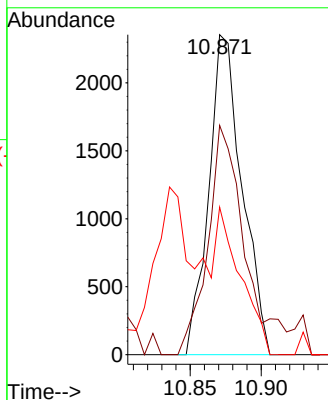
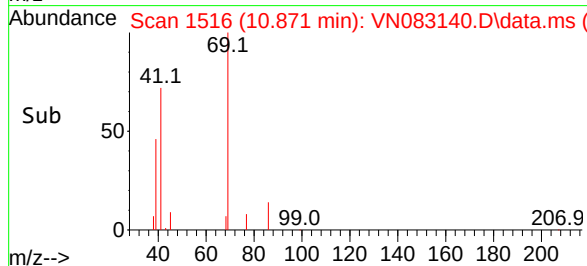
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001



Tgt Ion: 69 Resp: 384
Ion Ratio Lower Upper
69 100
41 83.6 63.4 95.2
39 33.7 37.4 56.0

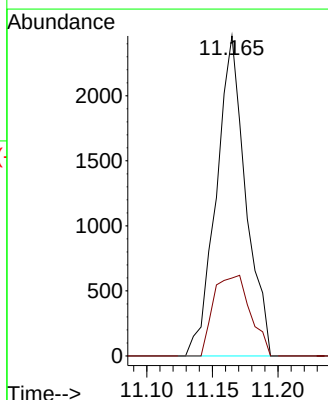
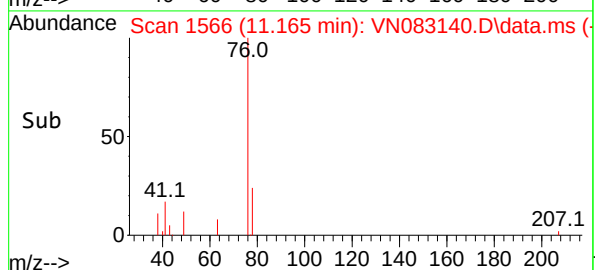
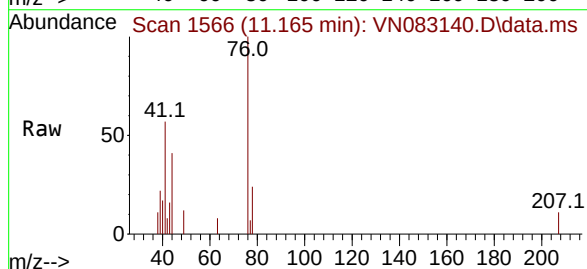
Manual Integrations
APPROVED

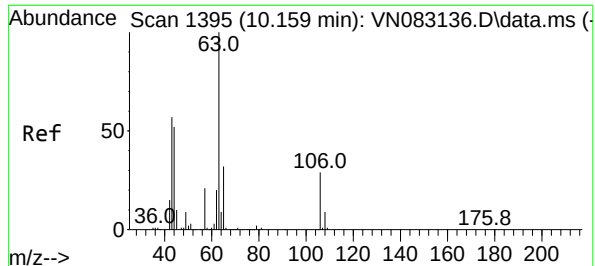
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#57
1,3-Dichloropropane
Concen: 0.973 ug/l
RT: 11.165 min Scan# 1566
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 76 Resp: 3837
Ion Ratio Lower Upper
76 100
78 31.3 25.6 38.4





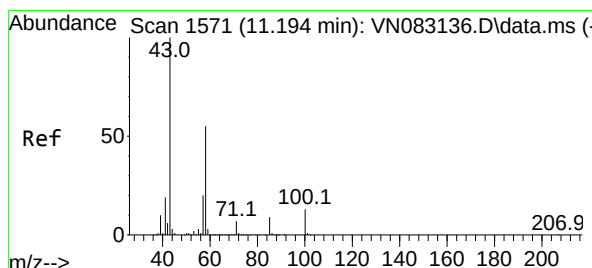
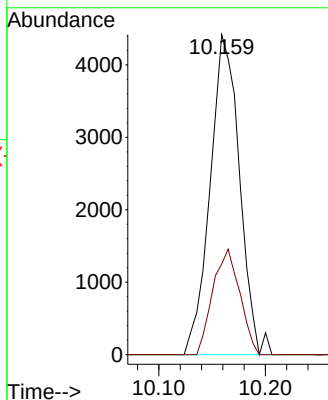
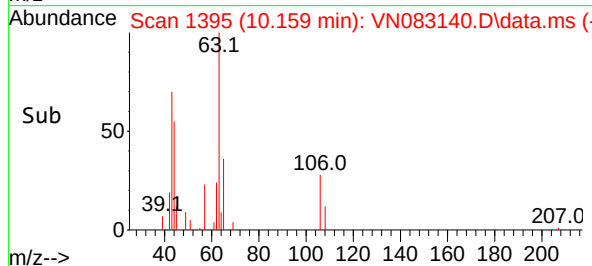
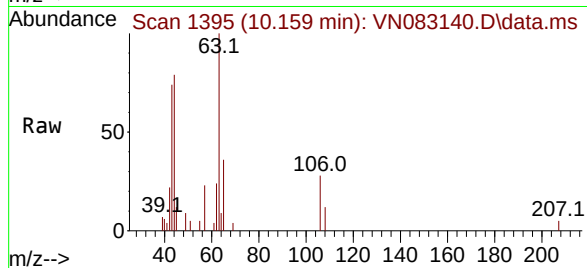
#58
2-Chloroethyl Vinyl ether
Concen: 4.794 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 63 Resp: 845
Ion Ratio Lower Upper
63 100
106 30.3 21.4 32.0

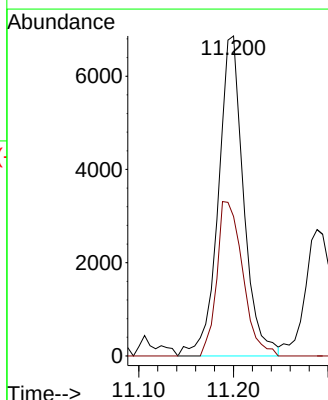
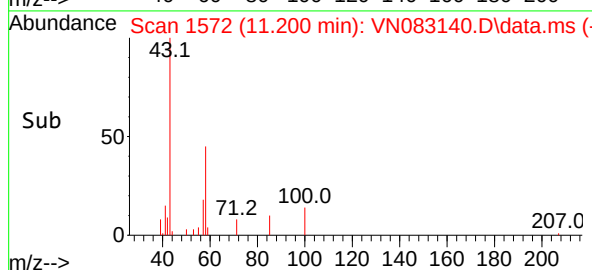
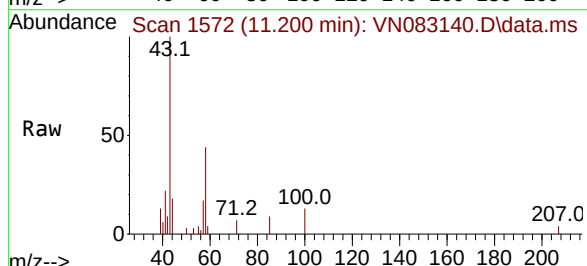
Manual Integrations
APPROVED

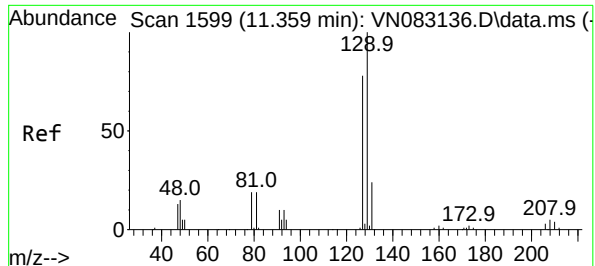
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#59
2-Hexanone
Concen: 4.749 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

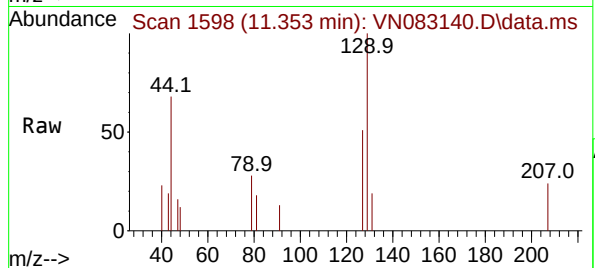
Tgt Ion: 43 Resp: 12761
Ion Ratio Lower Upper
43 100
58 49.3 24.6 73.8





#60
Dibromochloromethane
Concen: 0.853 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

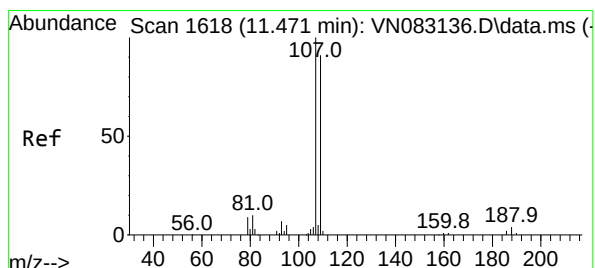
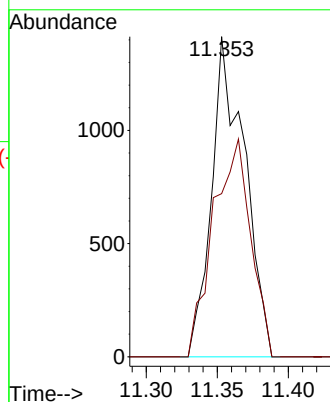
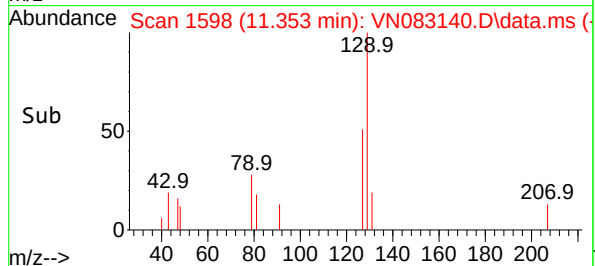
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001



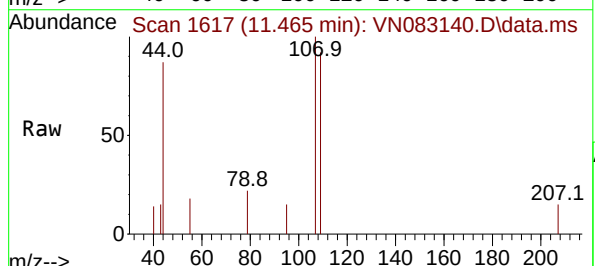
Tgt Ion:129 Resp: 2283
Ion Ratio Lower Upper
129 100
127 77.5 39.2 117.6

Manual Integrations
APPROVED

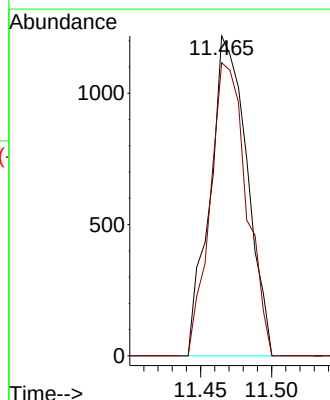
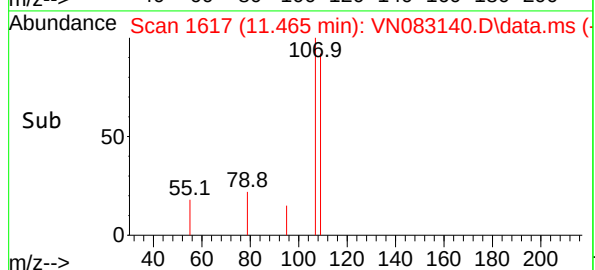
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

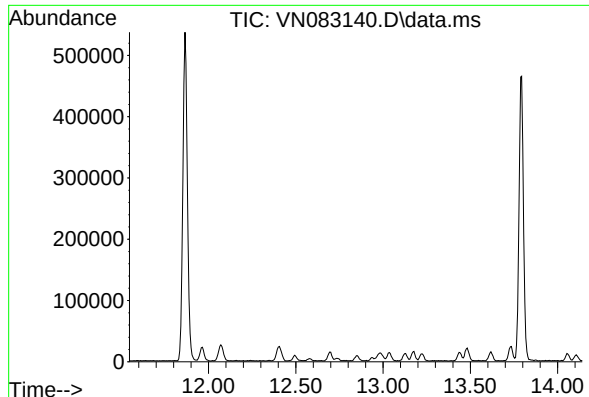


#61
1,2-Dibromoethane
Concen: 0.947 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34



Tgt Ion:107 Resp: 2200
Ion Ratio Lower Upper
107 100
109 90.4 73.7 110.5





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

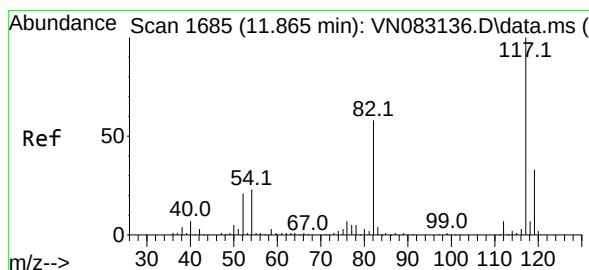
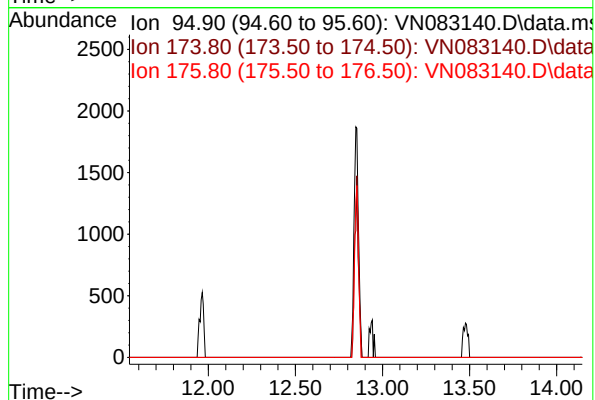
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 95
Sig Exp Ratio
95 100
174 79.6
176 73.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

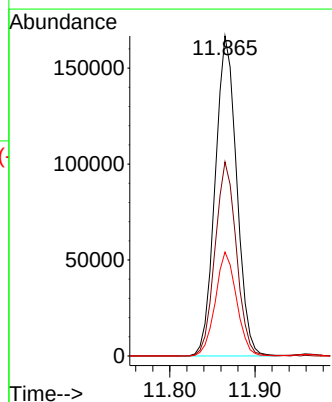
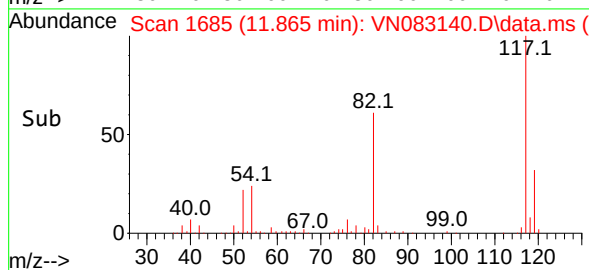
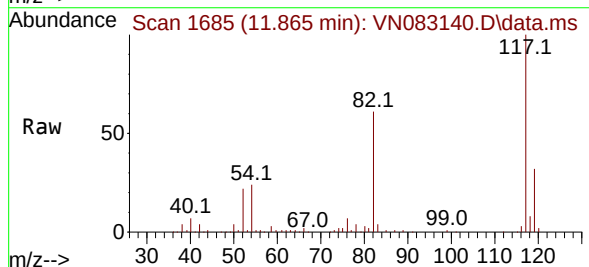
Manual Integrations
APPROVED

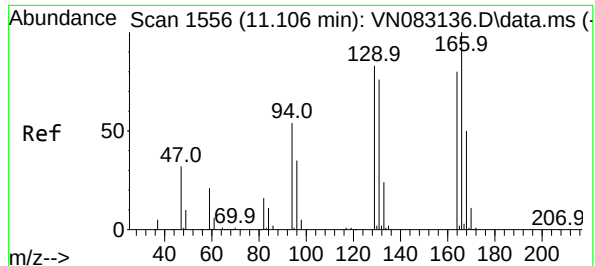
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

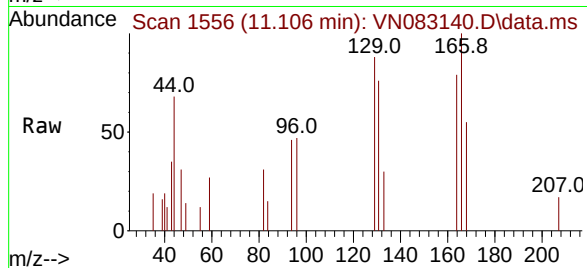
Tgt Ion:117 Resp: 292647
Ion Ratio Lower Upper
117 100
82 60.6 47.5 71.3
119 32.4 25.6 38.4





#64
Tetrachloroethene
Concen: 0.966 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

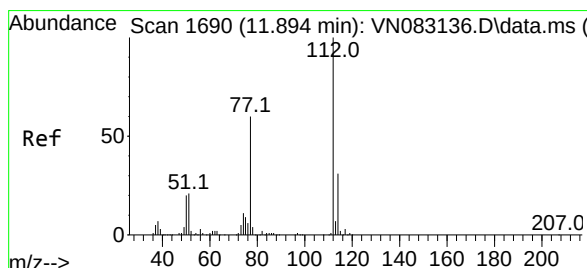
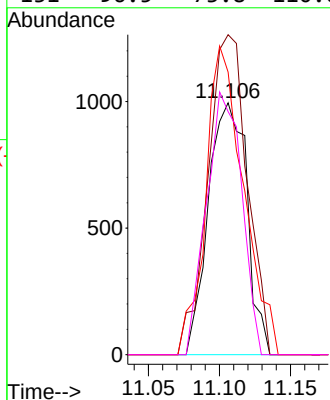
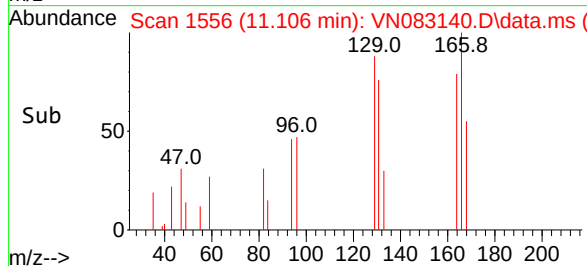
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001



Tgt Ion:164 Resp: 1872
Ion Ratio Lower Upper
164 100
166 127.0 101.4 152.0
129 112.2 75.7 113.5
131 96.5 73.8 110.6

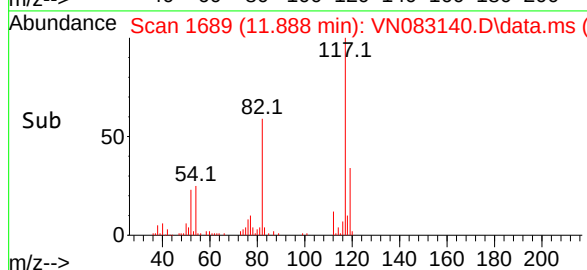
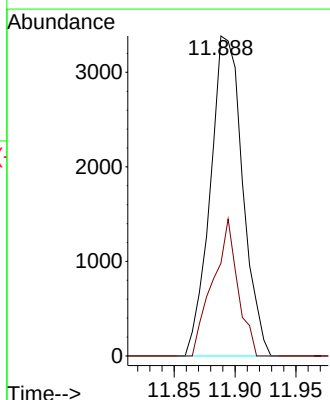
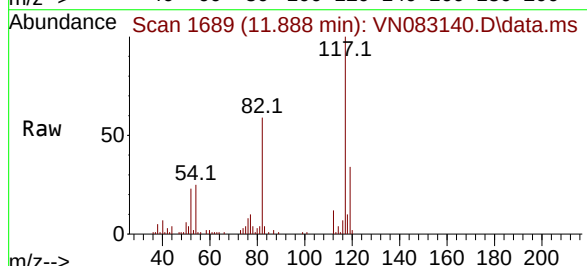
Manual Integrations
APPROVED

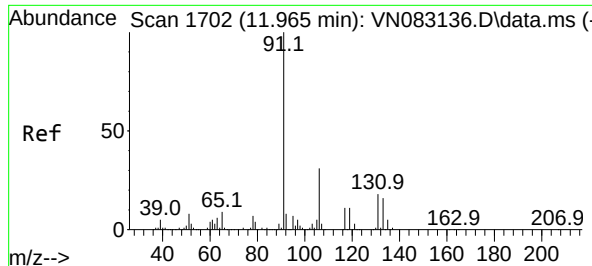
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#65
Chlorobenzene
Concen: 0.968 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

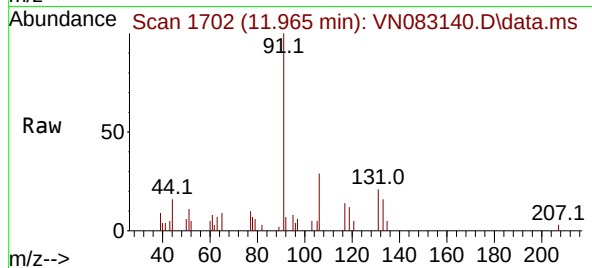
Tgt Ion:112 Resp: 6259
Ion Ratio Lower Upper
112 100
114 29.0 26.2 39.2





#66
1,1,1,2-Tetrachloroethane
Concen: 0.951 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

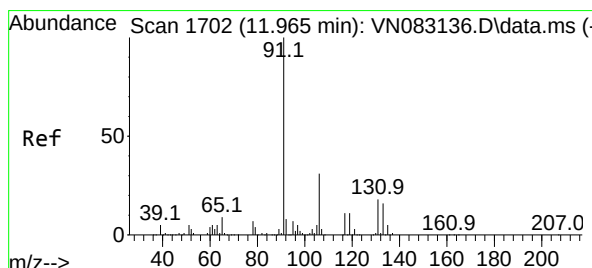
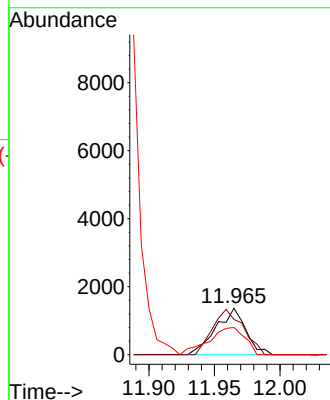
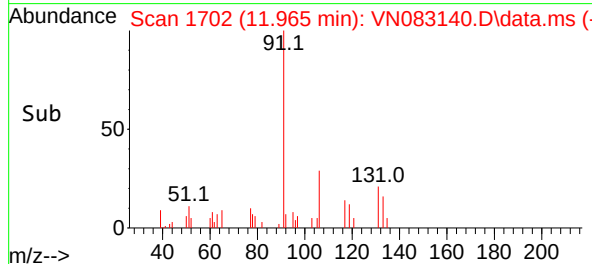
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion: 131 Resp: 2168
Ion Ratio Lower Upper
131 100
133 100.6 47.3 142.0
119 0.0 32.5 97.4

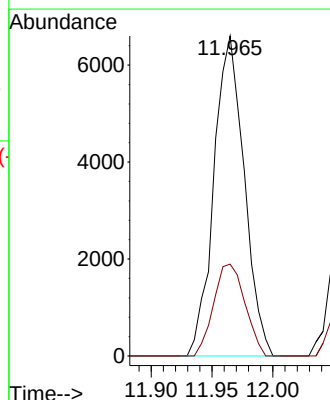
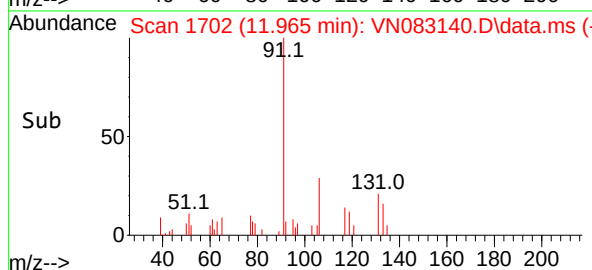
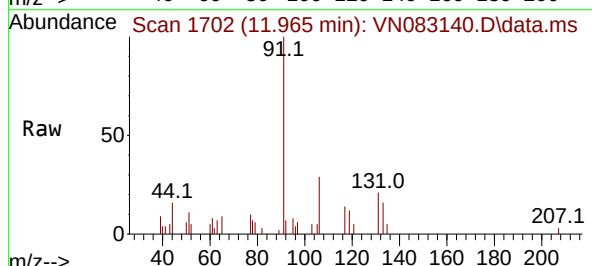
Manual Integrations
APPROVED

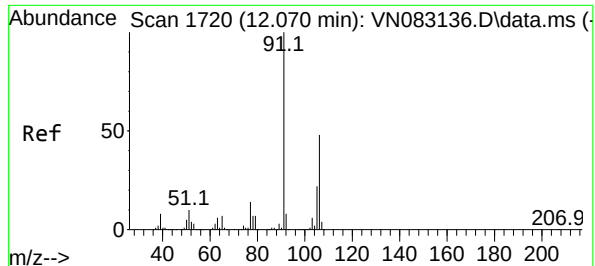
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#67
Ethyl Benzene
Concen: 0.966 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

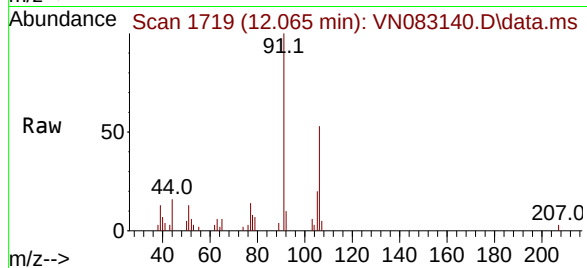
Tgt Ion: 91 Resp: 11455
Ion Ratio Lower Upper
91 100
106 28.7 24.0 36.0





#68
m/p-Xylenes
Concen: 1.860 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

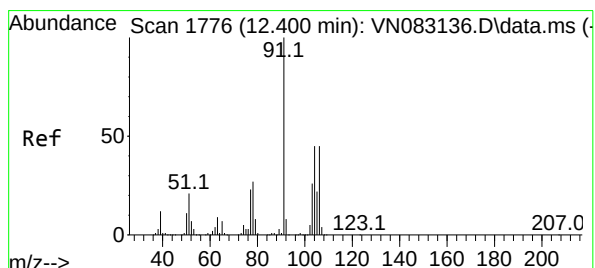
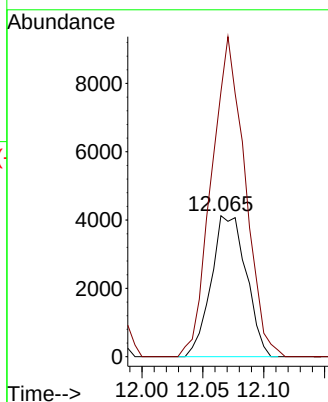
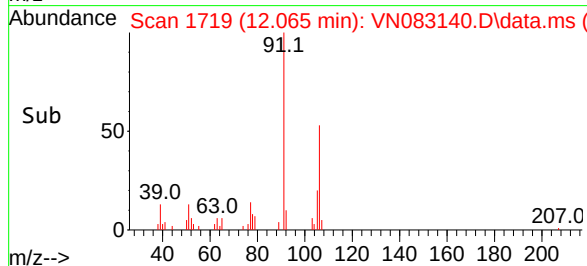
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion:106 Resp: 826
Ion Ratio Lower Upper
106 100
91 217.0 166.1 249.1

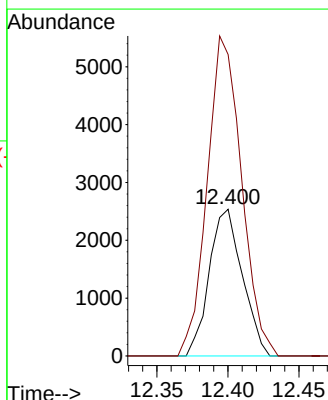
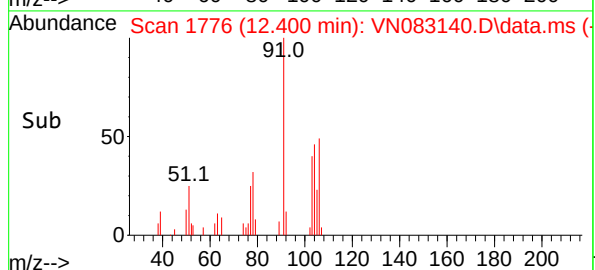
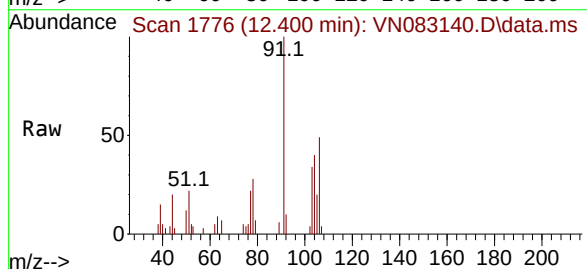
Manual Integrations
APPROVED

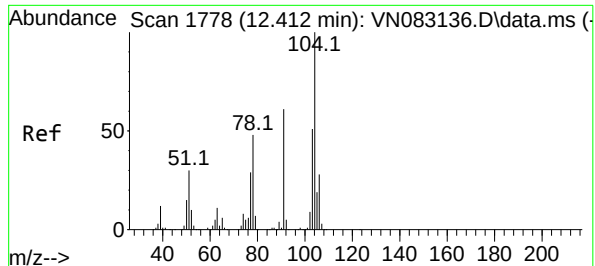
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#69
o-Xylene
Concen: 0.938 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

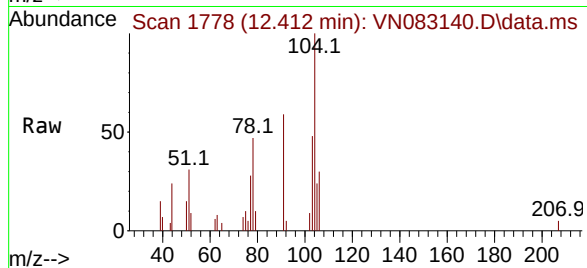
Tgt Ion:106 Resp: 4113
Ion Ratio Lower Upper
106 100
91 226.2 111.3 333.9





#70
Styrene
Concen: 0.875 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

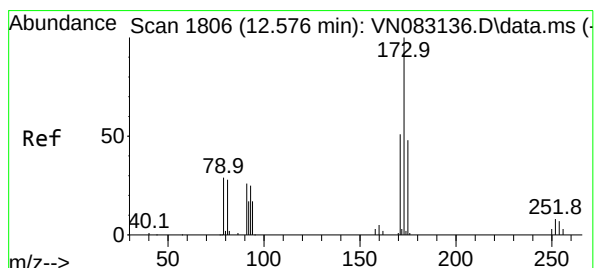
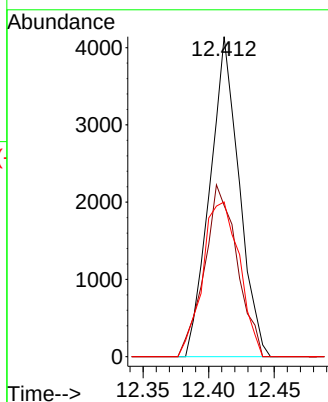
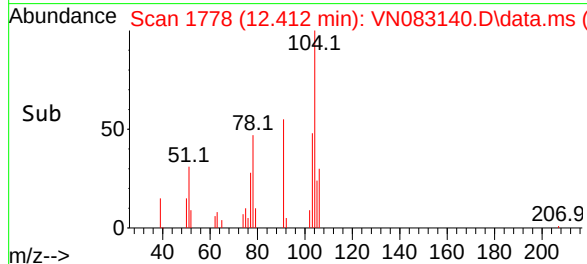
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001



Tgt Ion:104 Resp: 644
Ion Ratio Lower Upper
104 100
78 60.2 41.6 62.4
103 60.7 44.0 66.0

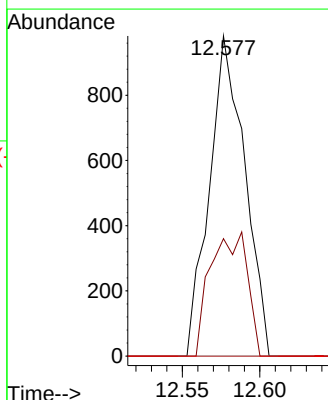
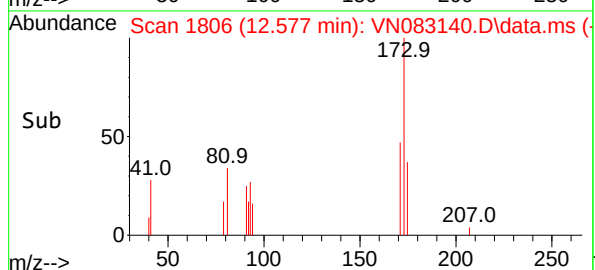
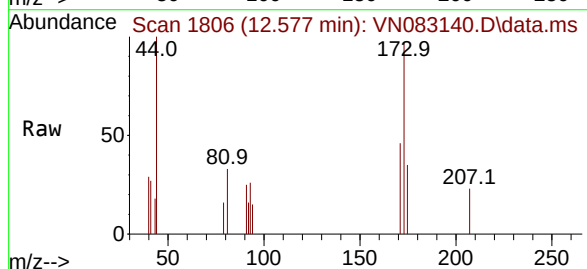
Manual Integrations
APPROVED

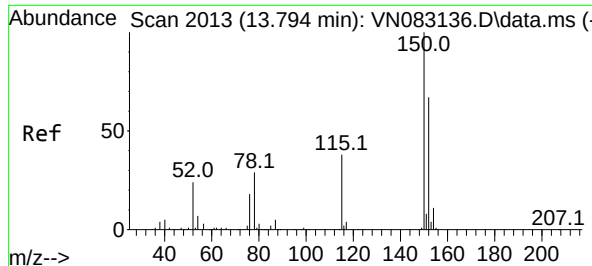
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#71
Bromoform
Concen: 0.903 ug/l
RT: 12.577 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

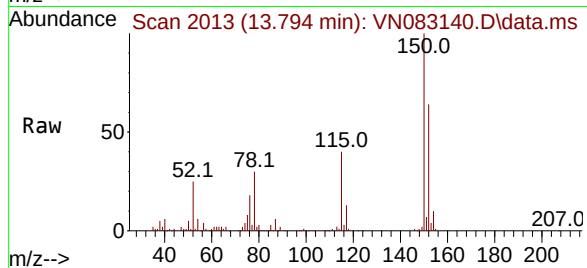
Tgt Ion:173 Resp: 1561
Ion Ratio Lower Upper
173 100
175 40.2 24.0 72.0
254 0.0 0.0 0.0





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

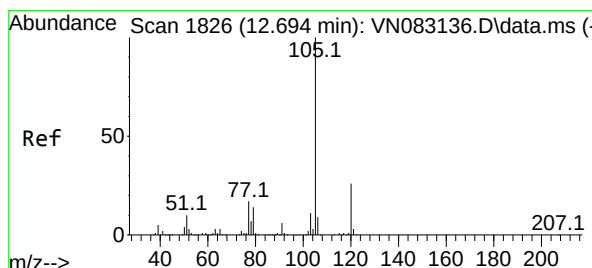
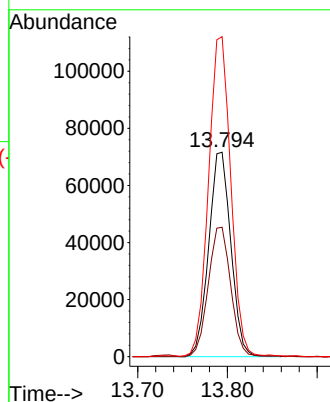
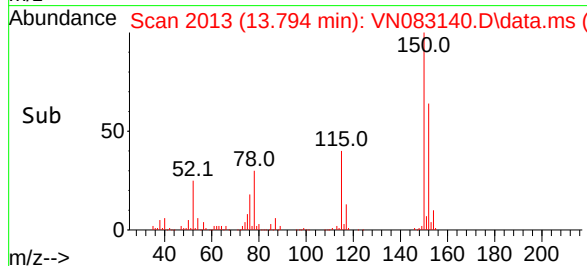
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion:152 Resp: 12292
Ion Ratio Lower Upper
152 100
115 64.2 30.6 91.6
150 157.5 0.0 348.6

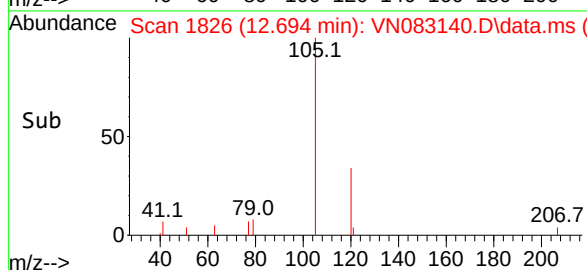
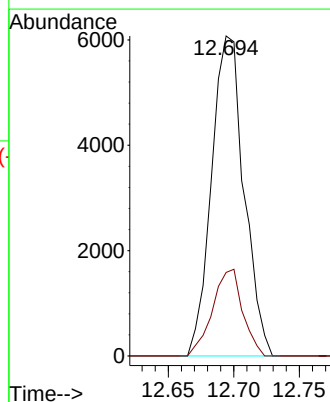
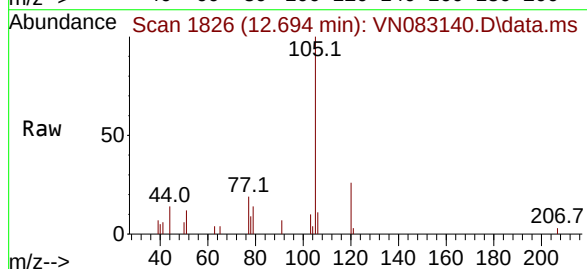
Manual Integrations
APPROVED

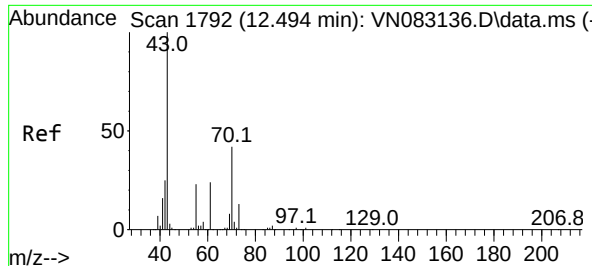
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#73
Isopropylbenzene
Concen: 1.017 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

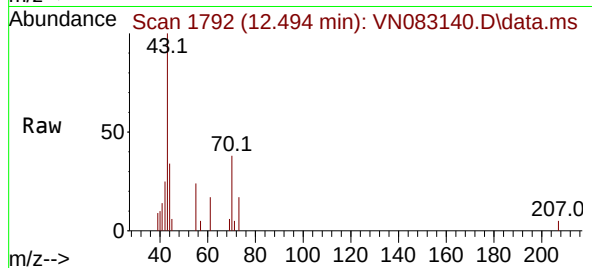
Tgt Ion:105 Resp: 10459
Ion Ratio Lower Upper
105 100
120 25.1 12.9 38.6





#74
N-amy1 acetate
Concen: 1.144 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

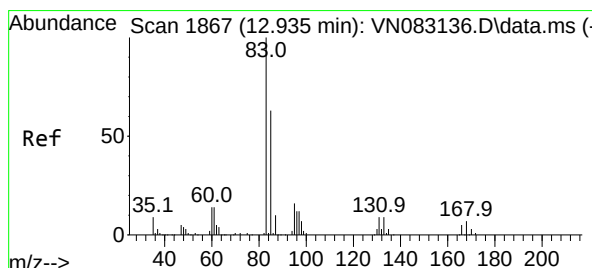
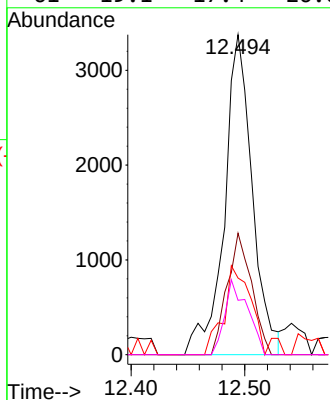
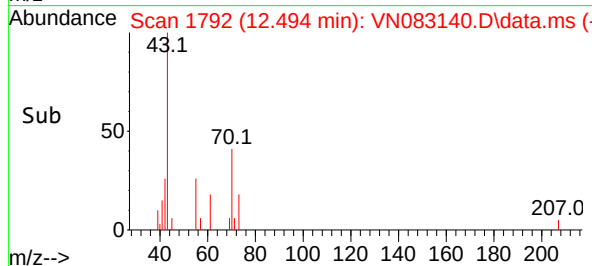
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion: 43 Resp: 575
Ion Ratio Lower Upper
43 100
70 33.3 29.8 44.6
55 28.9 18.7 28.1
61 19.1 17.4 26.0

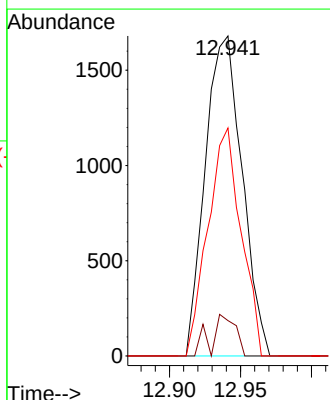
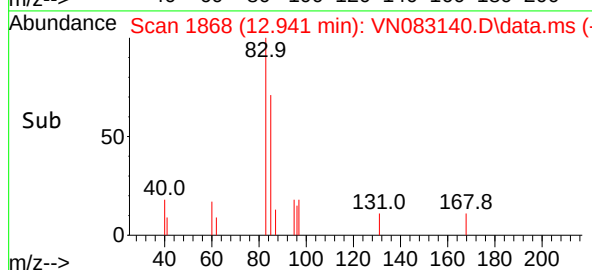
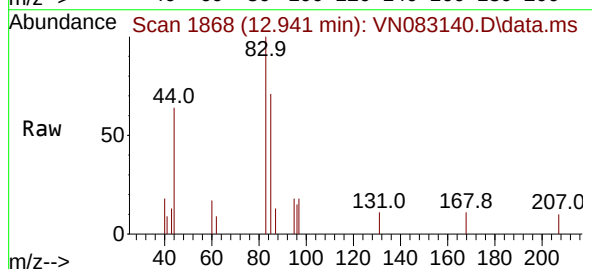
Manual Integrations
APPROVED

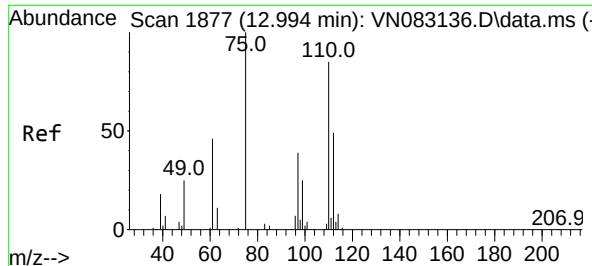
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#75
1,1,2,2-Tetrachloroethane
Concen: 1.043 ug/l
RT: 12.941 min Scan# 1868
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 83 Resp: 3034
Ion Ratio Lower Upper
83 100
131 8.5 5.0 14.9
85 64.0 31.9 95.7





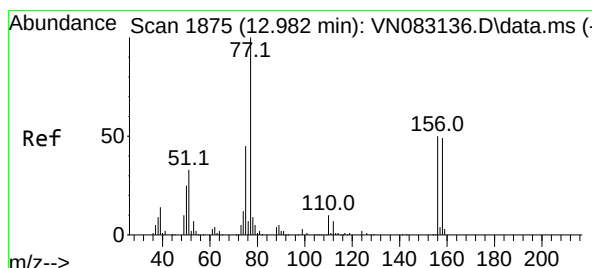
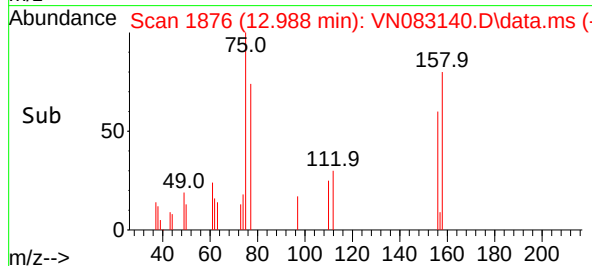
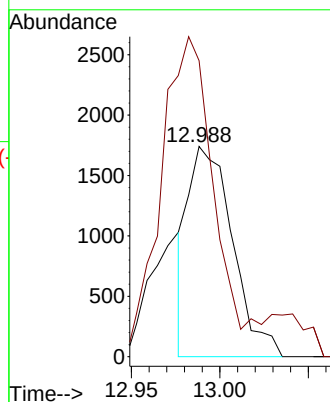
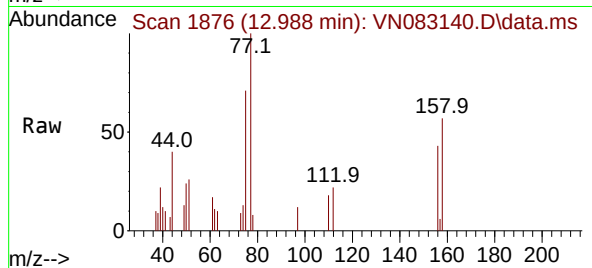
#76
1,2,3-Trichloropropane
Concen: 1.122 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tgt Ion: 75 Resp: 303
Ion Ratio Lower Upper
75 100
77 184.1 110.9 332.6

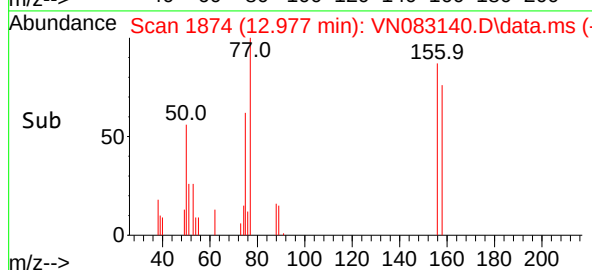
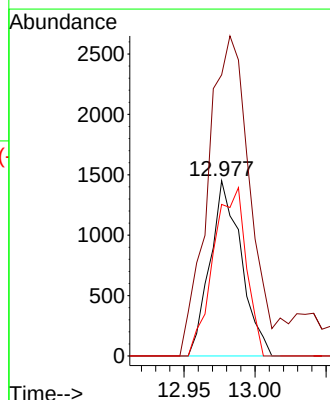
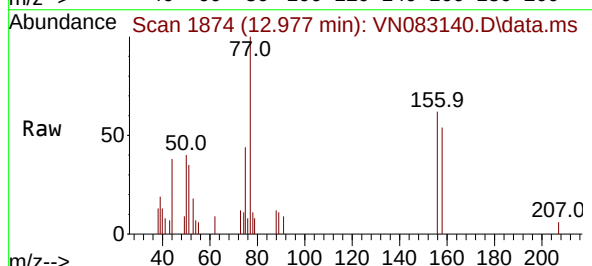
Manual Integrations
APPROVED

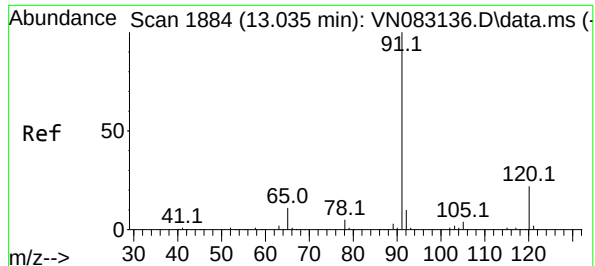
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#77
Bromobenzene
Concen: 0.969 ug/l
RT: 12.977 min Scan# 1874
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:156 Resp: 2212
Ion Ratio Lower Upper
156 100
77 252.2 111.3 333.8
158 101.5 48.3 144.9





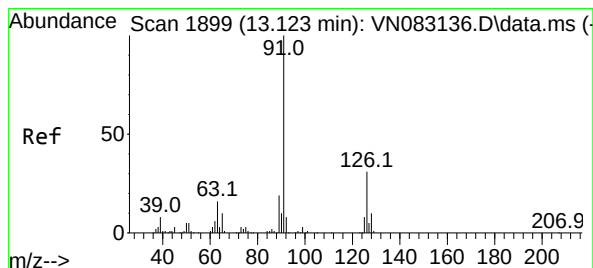
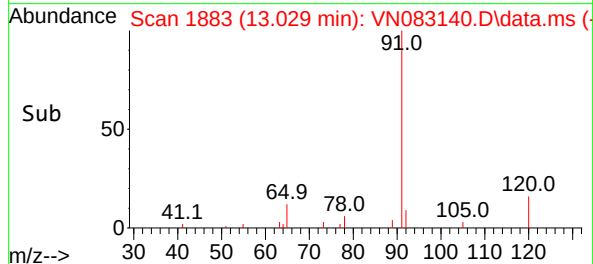
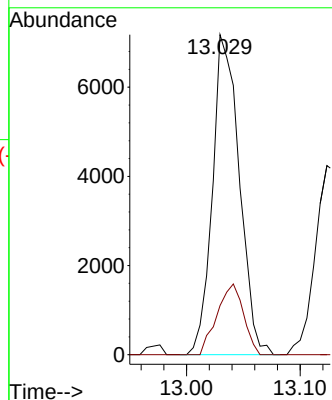
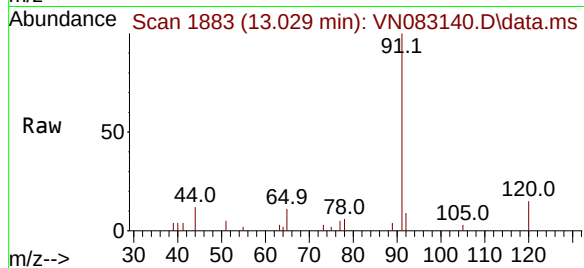
#78
n-propylbenzene
Concen: 0.997 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 11800
Ion Ratio Lower Upper
91 100
120 21.7 10.9 32.9

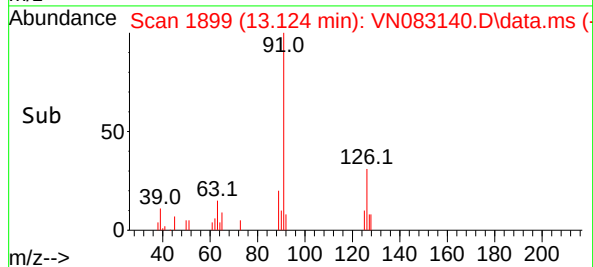
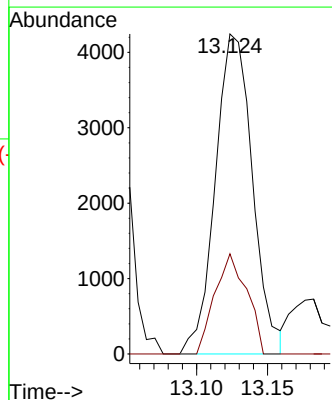
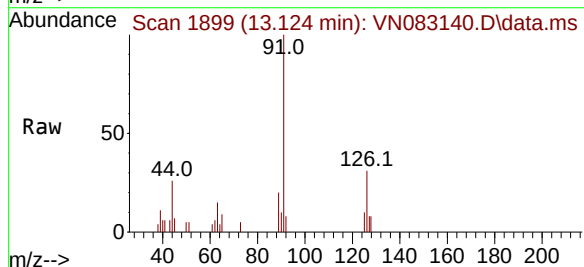
Manual Integrations
APPROVED

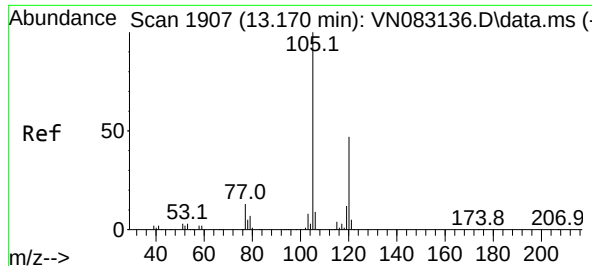
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#79
2-Chlorotoluene
Concen: 1.031 ug/l
RT: 13.124 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

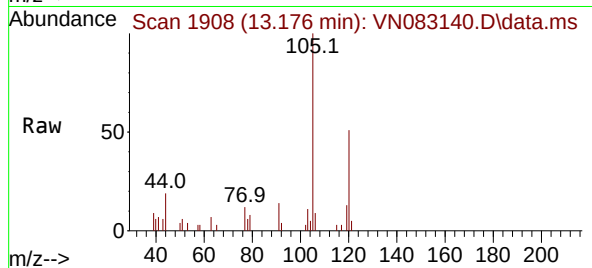
Tgt Ion: 91 Resp: 7735
Ion Ratio Lower Upper
91 100
126 26.9 16.2 48.6





#80
1,3,5-Trimethylbenzene
Concen: 0.994 ug/l
RT: 13.176 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

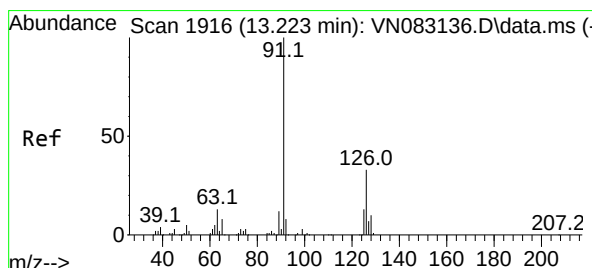
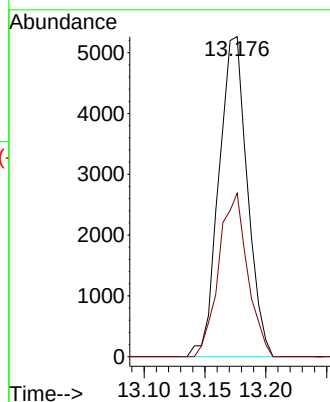
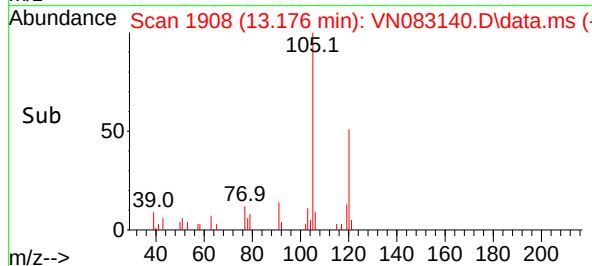
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion:105 Resp: 8552
Ion Ratio Lower Upper
105 100
120 51.7 24.3 72.8

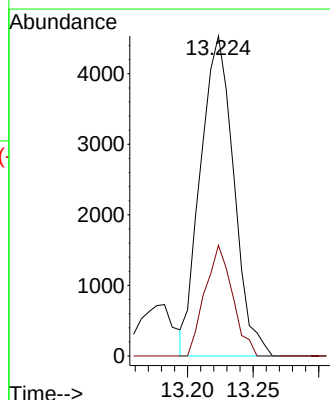
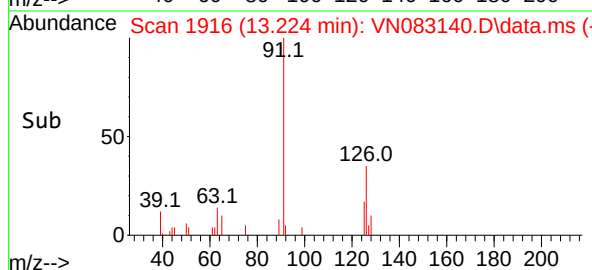
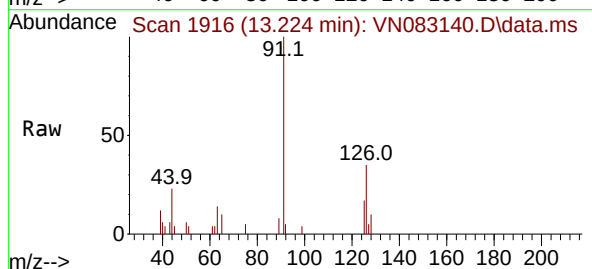
Manual Integrations
APPROVED

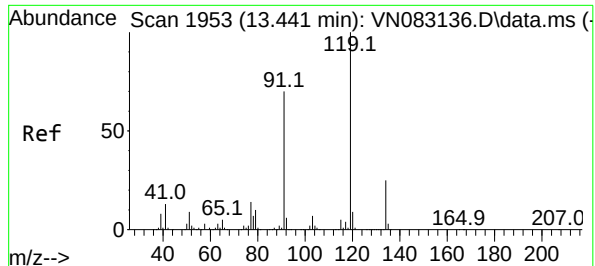
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#82
4-Chlorotoluene
Concen: 1.065 ug/l
RT: 13.224 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 91 Resp: 8018
Ion Ratio Lower Upper
91 100
126 28.6 16.2 48.6





#83

tert-Butylbenzene

Concen: 1.001 ug/l

RT: 13.435 min Scan# 1953

Delta R.T. -0.006 min

Lab File: VN083140.D

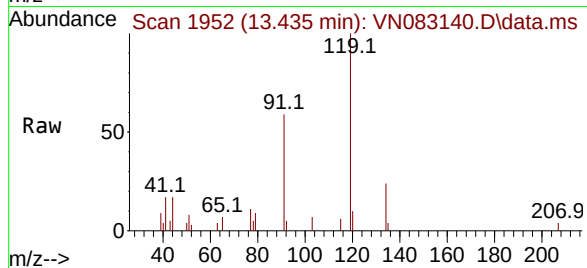
Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001



Tgt Ion:119 Resp: 7628

Ion Ratio Lower Upper

119 100

91 69.2 35.0 105.1

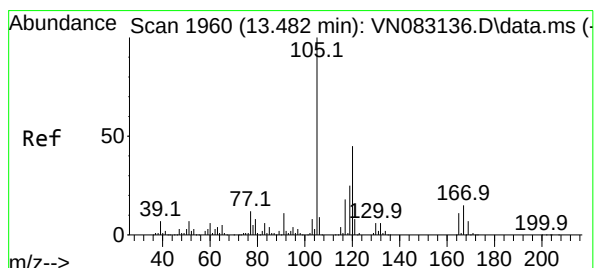
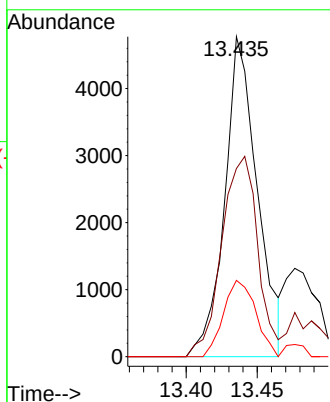
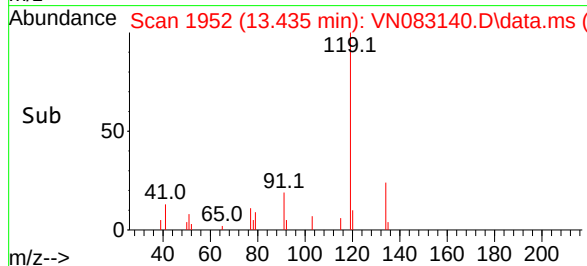
134 23.5 13.3 39.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#84

1,2,4-Trimethylbenzene

Concen: 0.968 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.000 min

Lab File: VN083140.D

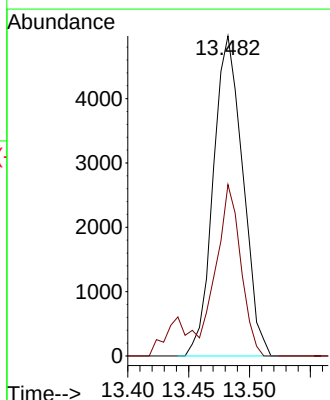
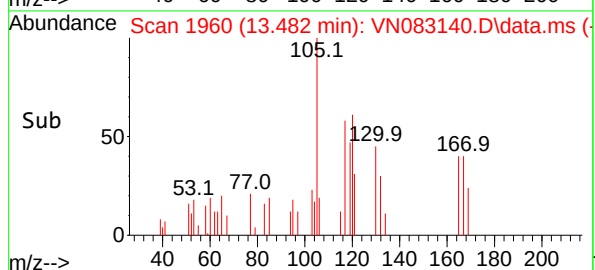
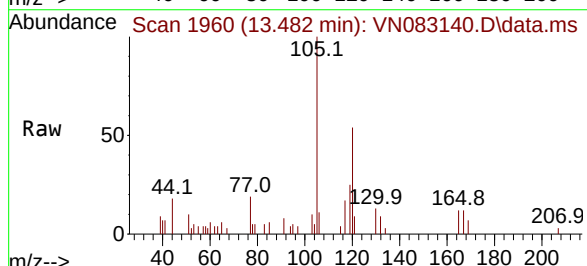
Acq: 07 Aug 2024 12:34

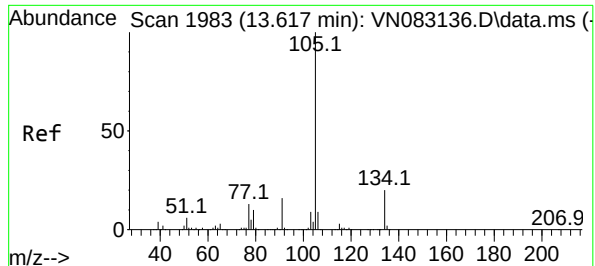
Tgt Ion:105 Resp: 8397

Ion Ratio Lower Upper

105 100

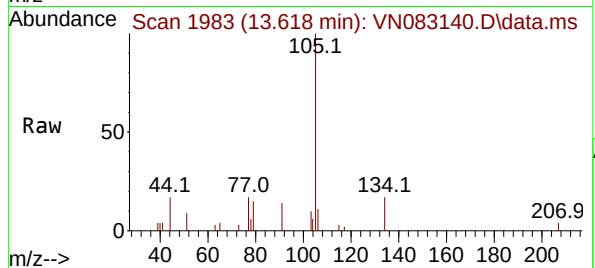
120 44.1 21.9 65.8





#85
sec-Butylbenzene
Concen: 1.001 ug/l
RT: 13.618 min Scan# 1983
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

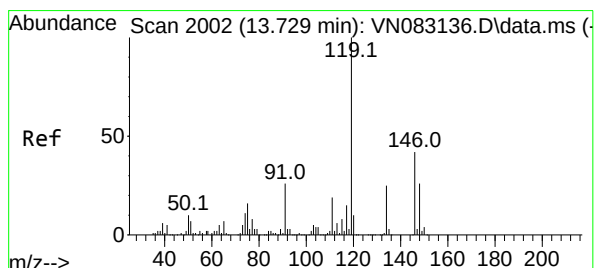
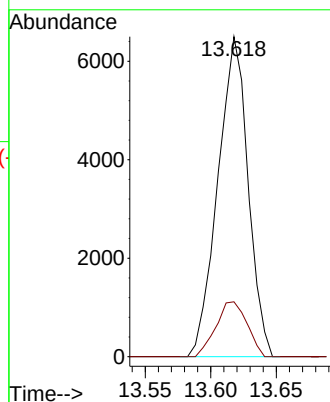
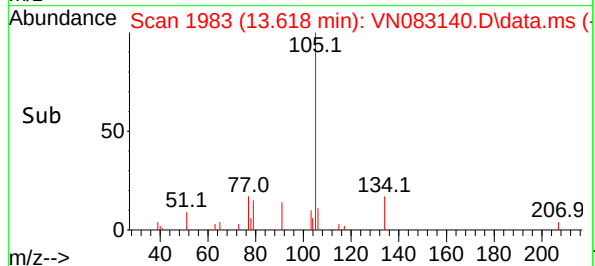
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001



Tgt Ion:105 Resp: 1041
Ion Ratio Lower Upper
105 100
134 17.7 9.8 29.3

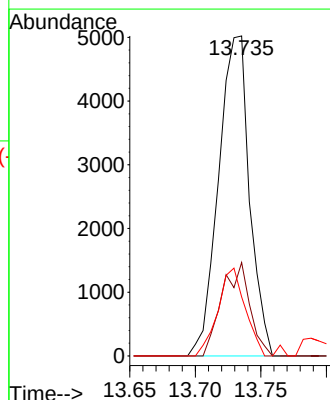
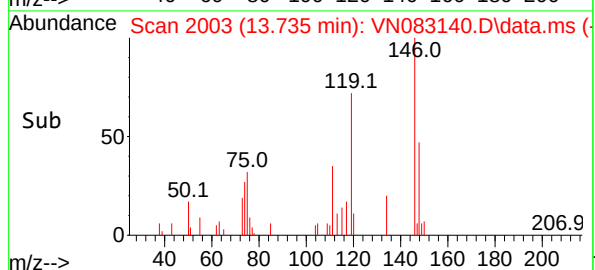
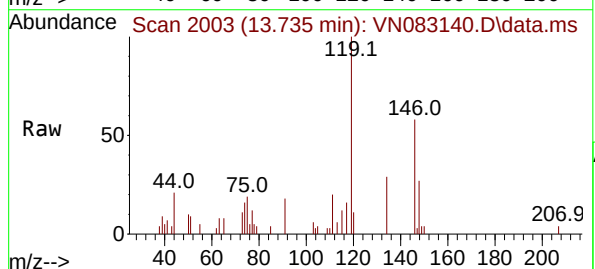
Manual Integrations
APPROVED

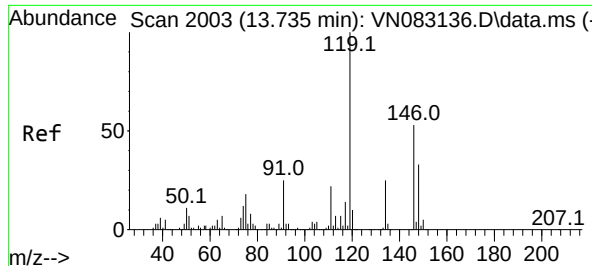
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#86
p-Isopropyltoluene
Concen: 0.960 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:119 Resp: 8247
Ion Ratio Lower Upper
119 100
134 26.4 13.0 39.0
91 24.2 12.3 36.9





#87

1,3-Dichlorobenzene

Concen: 1.070 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.000 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

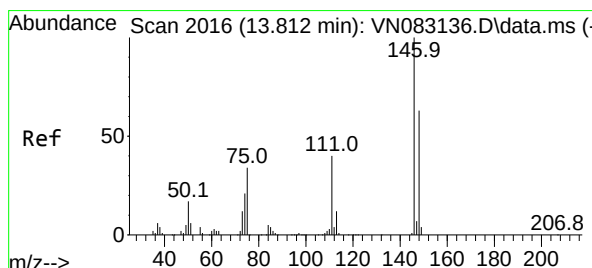
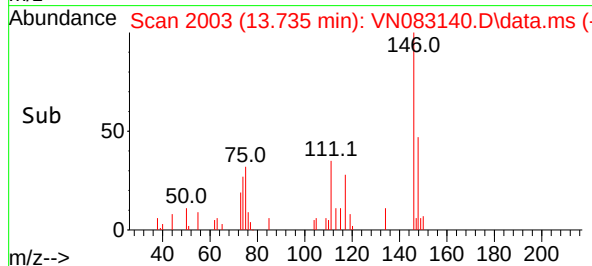
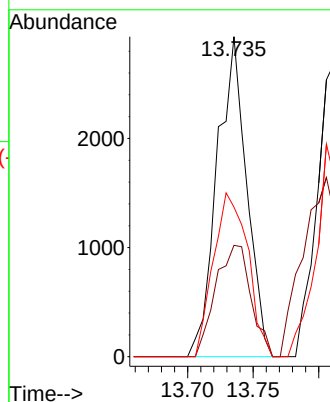
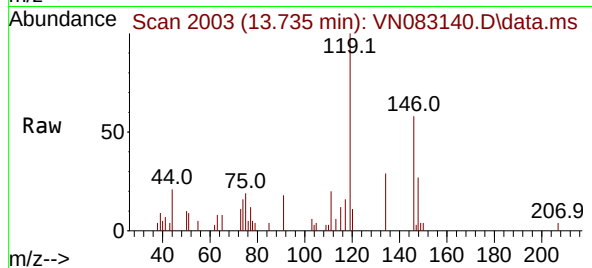
Tgt Ion:146	Resp:	4598
Ion Ratio	Lower	Upper
146	100	
111	41.5	20.6 61.9
148	59.5	31.8 95.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#88

1,4-Dichlorobenzene

Concen: 1.057 ug/l m

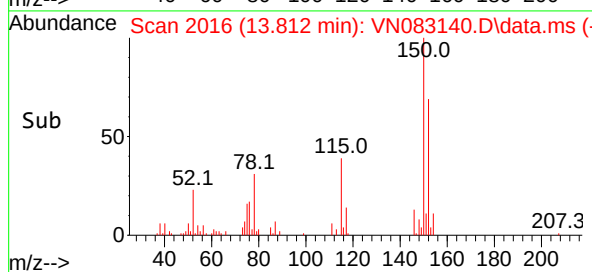
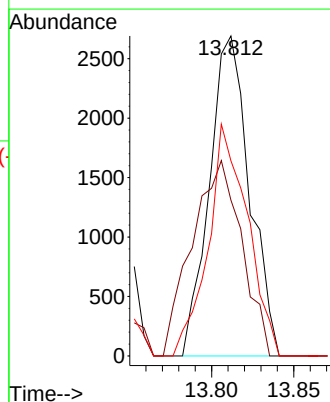
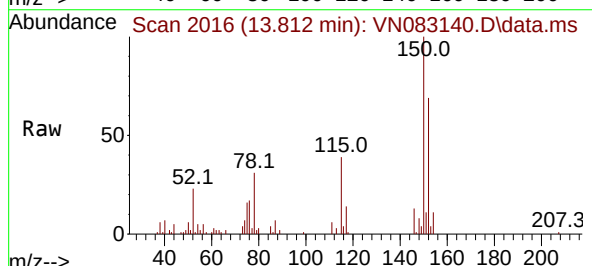
RT: 13.812 min Scan# 2016

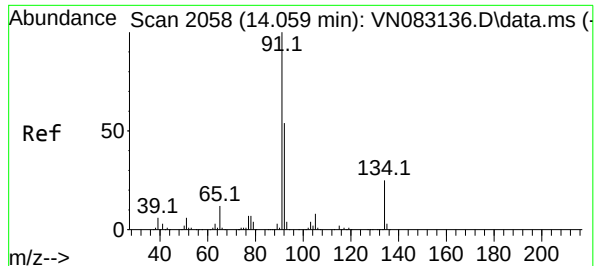
Delta R.T. 0.000 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Tgt Ion:146	Resp:	4578
Ion Ratio	Lower	Upper
146	100	
111	41.7	20.1 60.3
148	59.7	32.2 96.6





#89

n-Butylbenzene

Concen: 0.942 ug/l

RT: 14.053 min Scan# 2058

Delta R.T. -0.006 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

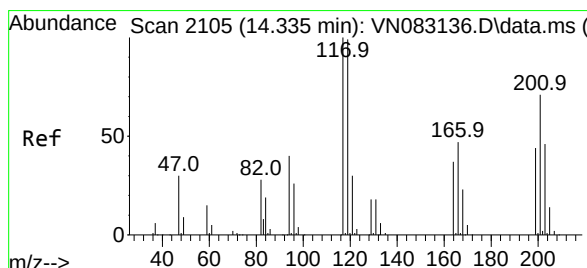
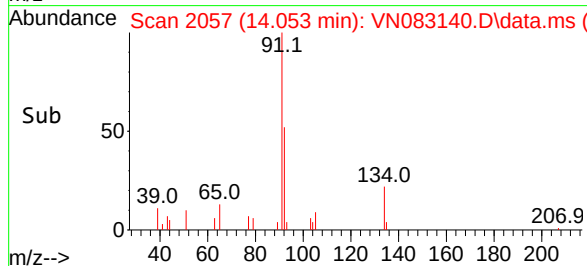
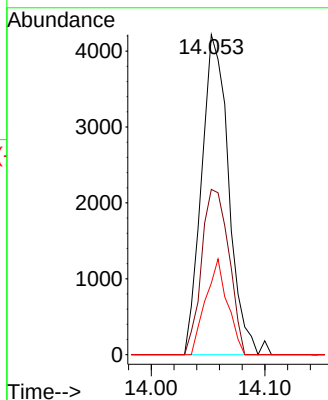
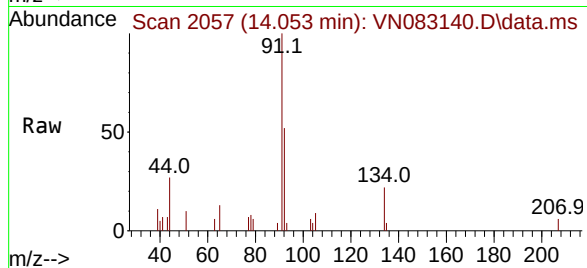
Tgt Ion:	91	Resp:	7008
Ion	Ratio	Lower	Upper
91	100		
92	52.0	26.1	78.3
134	24.1	12.1	36.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#90

Hexachloroethane

Concen: 0.918 ug/l

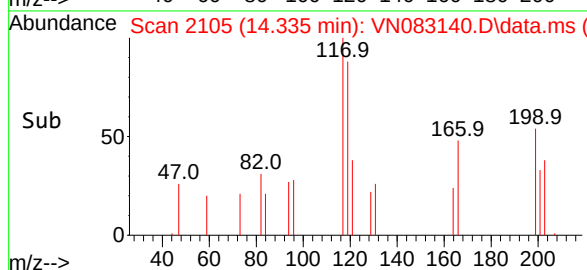
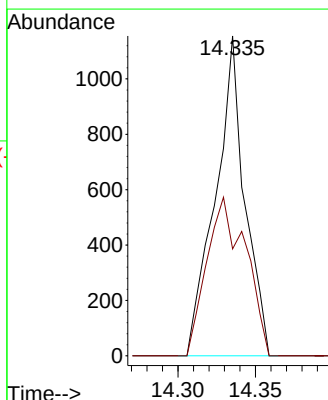
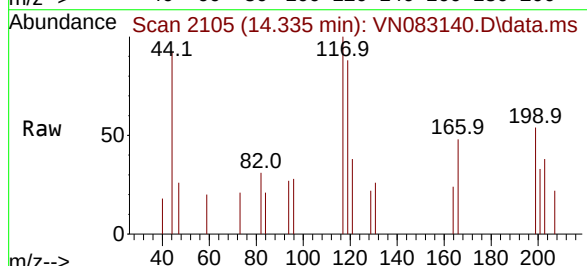
RT: 14.335 min Scan# 2105

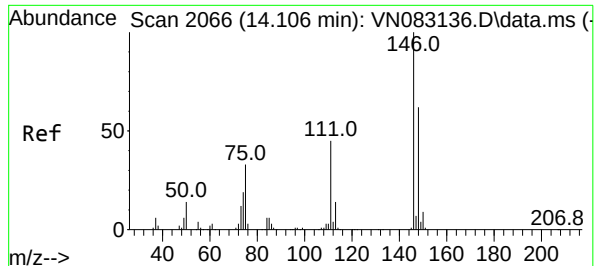
Delta R.T. 0.000 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Tgt Ion:	117	Resp:	1524
Ion	Ratio	Lower	Upper
117	100		
201	65.7	35.8	107.3





#91

1,2-Dichlorobenzene

Concen: 1.029 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.000 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

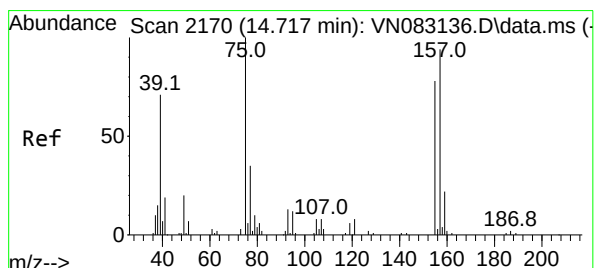
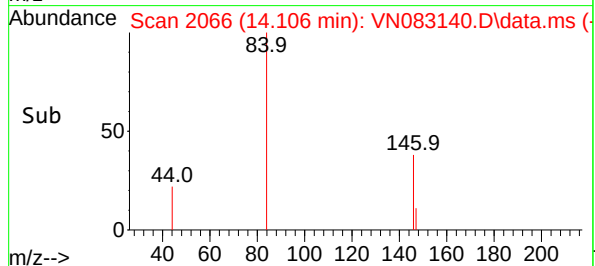
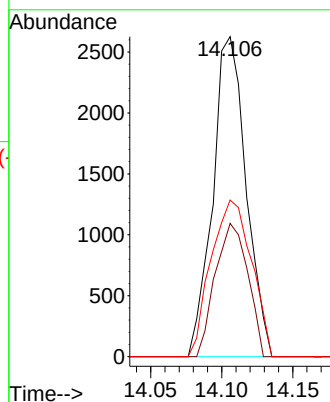
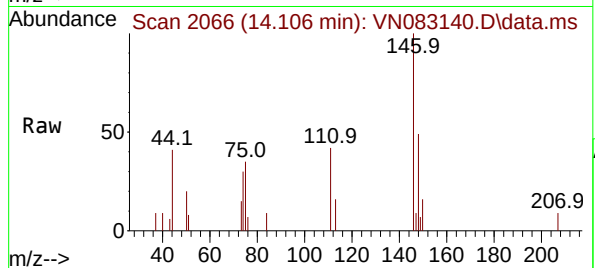
Tgt Ion:	146	Resp:	4279
Ion Ratio	Lower	Upper	
146	100		
111	40.7	21.4	64.2
148	59.6	32.1	96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.081 ug/l

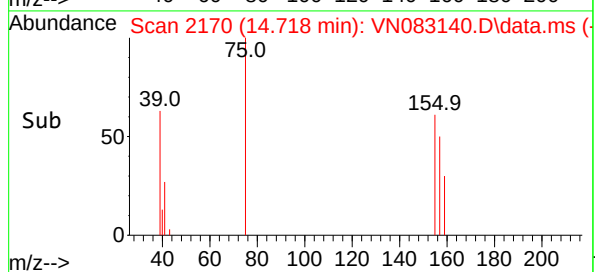
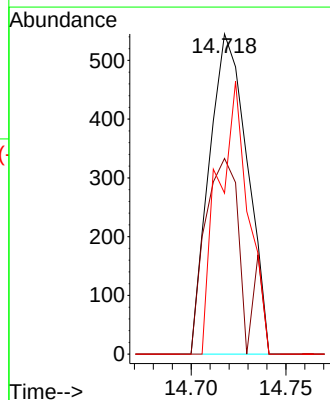
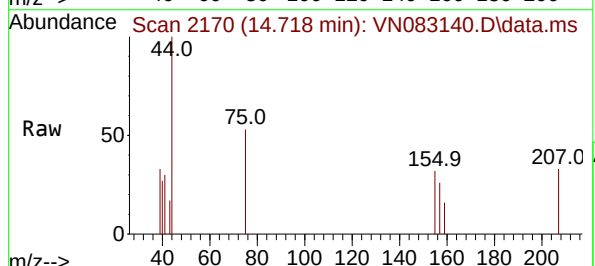
RT: 14.718 min Scan# 2170

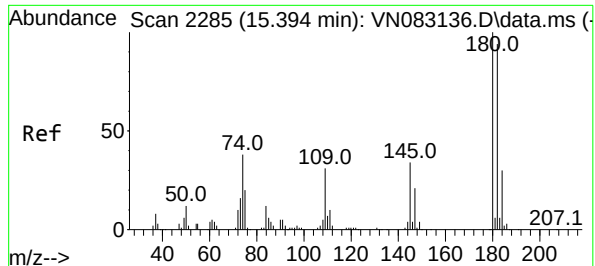
Delta R.T. 0.000 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Tgt Ion:	75	Resp:	763
Ion Ratio	Lower	Upper	
75	100		
155	59.5	36.6	109.8
157	67.9	46.9	140.6





#93

1,2,4-Trichlorobenzene

Concen: 1.070 ug/l

RT: 15.394 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

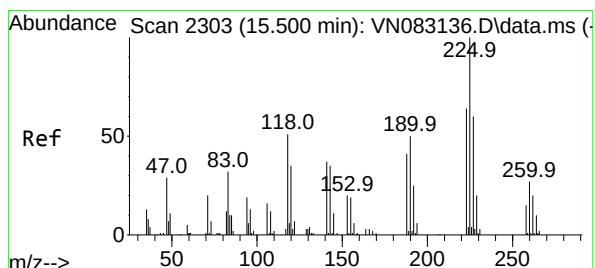
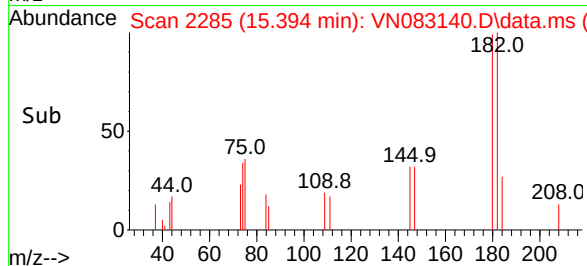
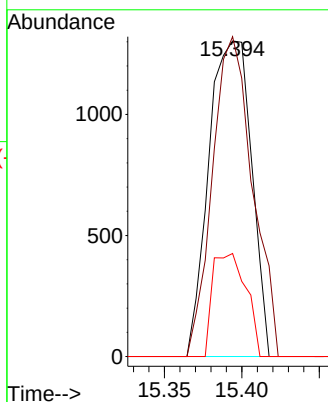
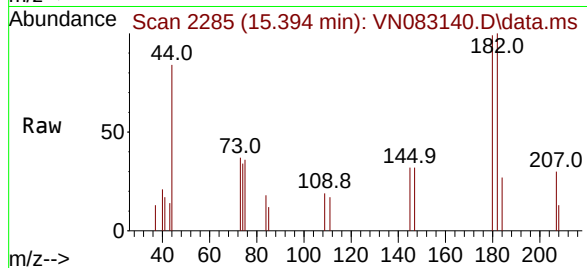
Tgt Ion:	180	Resp:	249
Ion Ratio	Lower	Upper	
180	100		
182	95.5	47.3	141.8
145	25.6	15.7	47.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#94

Hexachlorobutadiene

Concen: 1.140 ug/l

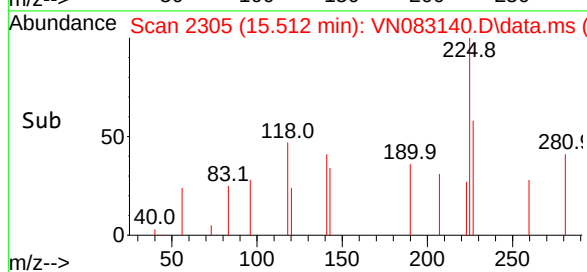
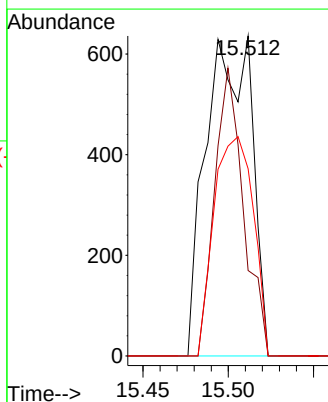
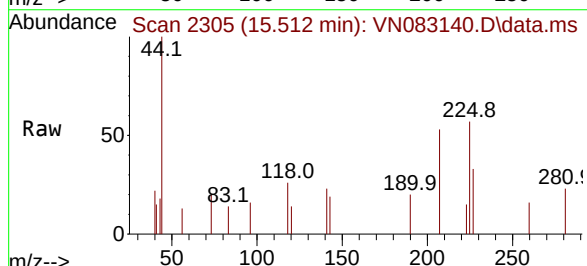
RT: 15.512 min Scan# 2305

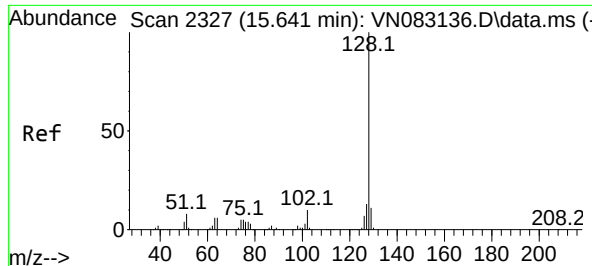
Delta R.T. 0.012 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

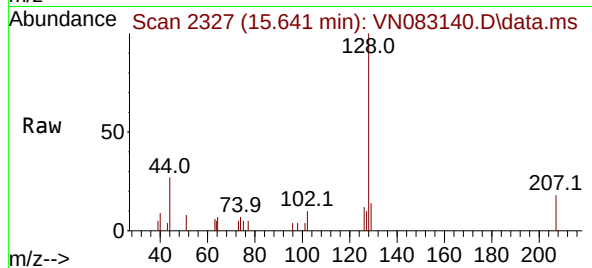
Tgt Ion:	225	Resp:	1181
Ion Ratio	Lower	Upper	
225	100		
223	57.0	31.9	95.7
227	59.4	32.5	97.5





#95
Naphthalene
Concen: 1.021 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

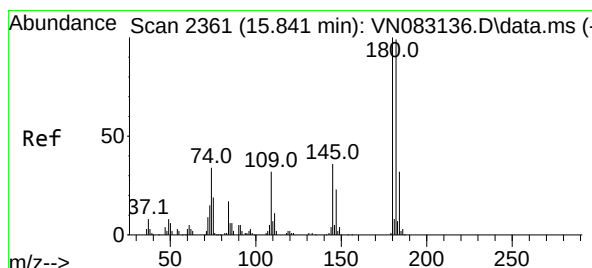
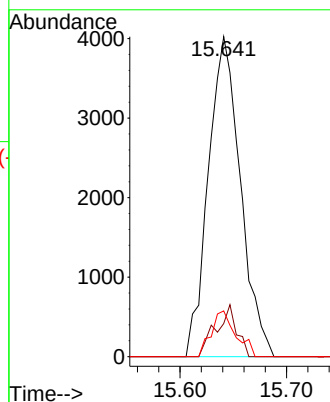
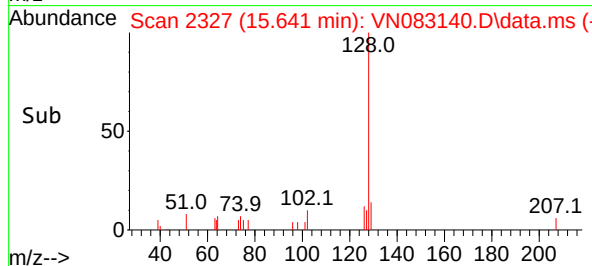
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001



Tgt Ion:128 Resp: 8430
Ion Ratio Lower Upper
128 100
127 10.4 10.6 16.0
129 10.9 8.6 12.8

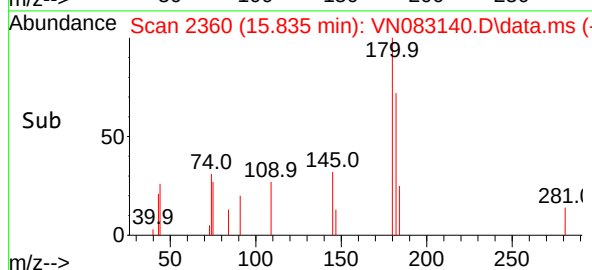
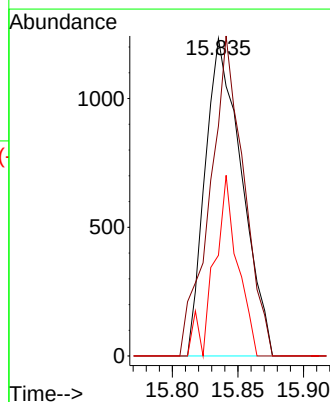
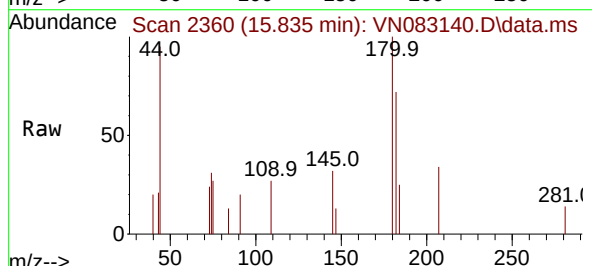
Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#96
1,2,3-Trichlorobenzene
Concen: 1.036 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:180 Resp: 2389
Ion Ratio Lower Upper
180 100
182 93.8 48.9 146.8
145 36.6 16.8 50.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
 Data File : VN083142.D
 Acq On : 07 Aug 2024 14:49
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN080724

Quant Time: Aug 08 06:35:30 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 06:30:41 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 08/08/2024
 Supervised By : Mahesh Dadoda 08/09/2024

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	223686	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	380000	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	330951	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	157193	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	161051	50.583	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.160%			
35) Dibromofluoromethane	8.165	113	122268	51.549	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.100%			
50) Toluene-d8	10.565	98	461627	52.175	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.340%			
62) 4-Bromofluorobenzene	12.847	95	181344	52.574	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 105.140%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	119481	47.102	ug/l	99
3) Chloromethane	2.360	50	120081	46.238	ug/l	97
4) Vinyl Chloride	2.512	62	121730	45.937	ug/l	99
5) Bromomethane	2.948	94	70678	42.984	ug/l	99
6) Chloroethane	3.112	64	72491	43.725	ug/l	96
7) Trichlorofluoromethane	3.495	101	206291	47.124	ug/l	98
8) Diethyl Ether	3.959	74	75355	46.259	ug/l	85
9) 1,1,2-Trichlorotrifluo...	4.365	101	113860	47.176	ug/l	99
10) Methyl Iodide	4.589	142	150327	47.349	ug/l	97
11) Tert butyl alcohol	5.524	59	137718	208.135	ug/l	99
12) 1,1-Dichloroethene	4.336	96	112976	45.562	ug/l	93
13) Acrolein	4.177	56	93826	217.571	ug/l	97
14) Allyl chloride	5.018	41	192929	41.173	ug/l	94
15) Acrylonitrile	5.712	53	296594	217.950	ug/l	99
16) Acetone	4.424	43	262677	210.840	ug/l	97
17) Carbon Disulfide	4.712	76	316980	43.689	ug/l	100
18) Methyl Acetate	5.024	43	157374	42.397	ug/l #	91
19) Methyl tert-butyl Ether	5.795	73	418691	46.781	ug/l	97
20) Methylene Chloride	5.277	84	125142	43.645	ug/l #	82
21) trans-1,2-Dichloroethene	5.783	96	117045	45.671	ug/l	92
22) Diisopropyl ether	6.671	45	412931	46.881	ug/l	97
23) Vinyl Acetate	6.600	43	2125343	235.414	ug/l	95
24) 1,1-Dichloroethane	6.565	63	224136	46.685	ug/l	99
25) 2-Butanone	7.483	43	405134	211.782	ug/l	91
26) 2,2-Dichloropropane	7.489	77	213355	47.853	ug/l	97
27) cis-1,2-Dichloroethene	7.483	96	142606	46.113	ug/l	93
28) Bromochloromethane	7.812	49	90226	45.986	ug/l	86
29) Tetrahydrofuran	7.836	42	274710	222.147	ug/l	89
30) Chloroform	7.965	83	236359	47.387	ug/l	97
31) Cyclohexane	8.253	56	205124	43.474	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	222538	47.135	ug/l	96
36) 1,1-Dichloropropene	8.371	75	171262	47.732	ug/l	99
37) Ethyl Acetate	7.559	43	173246	43.124	ug/l #	96
38) Carbon Tetrachloride	8.365	117	193592	47.904	ug/l	100
39) Methylcyclohexane	9.600	83	210745	47.821	ug/l	98
40) Benzene	8.606	78	509159	47.635	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
 Data File : VN083142.D
 Acq On : 07 Aug 2024 14:49
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN080724

Quant Time: Aug 08 06:35:30 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 06:30:41 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 08/08/2024
 Supervised By : Mahesh Dadoda 08/09/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	98251	43.013	ug/l	95
42) 1,2-Dichloroethane	8.671	62	184210	47.310	ug/l	98
43) Isopropyl Acetate	8.689	43	319540	45.577	ug/l #	95
44) Trichloroethene	9.353	130	122105	47.994	ug/l	99
45) 1,2-Dichloropropane	9.624	63	122313	48.208	ug/l	99
46) Dibromomethane	9.712	93	85581	47.124	ug/l	99
47) Bromodichloromethane	9.888	83	191842	47.047	ug/l	98
48) Methyl methacrylate	9.683	41	148161	44.609	ug/l	92
49) 1,4-Dioxane	9.694	88	53042	885.211	ug/l	96
51) 4-Methyl-2-Pentanone	10.441	43	877246	230.917	ug/l	94
52) Toluene	10.630	92	327682	48.520	ug/l	98
53) t-1,3-Dichloropropene	10.835	75	208495	49.776	ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	216020	48.487	ug/l	93
55) 1,1,2-Trichloroethane	11.018	97	117023	48.351	ug/l	99
56) Ethyl methacrylate	10.871	69	216248	47.395	ug/l	88
57) 1,3-Dichloropropane	11.165	76	204441	47.391	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	472357	244.918	ug/l	96
59) 2-Hexanone	11.194	43	661033	224.916	ug/l	92
60) Dibromochloromethane	11.359	129	144886	49.513	ug/l	99
61) 1,2-Dibromoethane	11.471	107	119834	47.133	ug/l	98
64) Tetrachloroethene	11.106	164	105591	48.175	ug/l	97
65) Chlorobenzene	11.888	112	347560	47.522	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.959	131	120826	46.843	ug/l	98
67) Ethyl Benzene	11.965	91	640827	47.764	ug/l	99
68) m/p-Xylenes	12.071	106	484653	96.434	ug/l	98
69) o-Xylene	12.400	106	231292	46.662	ug/l	97
70) Styrene	12.412	104	403657	48.487	ug/l	98
71) Bromoform	12.577	173	93397	47.797	ug/l #	99
73) Isopropylbenzene	12.694	105	616544	46.893	ug/l	99
74) N-amyl acetate	12.494	43	281352	43.748	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.941	83	159962	43.016	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	145309m	42.119	ug/l	
77) Bromobenzene	12.982	156	136249	46.649	ug/l	97
78) n-propylbenzene	13.035	91	721825	47.678	ug/l	99
79) 2-Chlorotoluene	13.124	91	445353	46.398	ug/l	98
80) 1,3,5-Trimethylbenzene	13.171	105	524769	47.673	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.735	75	74654	47.070	ug/l	84
82) 4-Chlorotoluene	13.224	91	447810	46.512	ug/l	98
83) tert-Butylbenzene	13.435	119	450104	46.173	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	515759	46.493	ug/l	99
85) sec-Butylbenzene	13.618	105	625404	47.018	ug/l	100
86) p-Isopropyltoluene	13.729	119	522411	47.566	ug/l	98
87) 1,3-Dichlorobenzene	13.735	146	252579	45.959	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	252088	45.499	ug/l	98
89) n-Butylbenzene	14.059	91	461440	48.489	ug/l	98
90) Hexachloroethane	14.335	117	99176	46.741	ug/l	95
91) 1,2-Dichlorobenzene	14.106	146	240673	45.255	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.723	75	37677	41.753	ug/l	99
93) 1,2,4-Trichlorobenzene	15.394	180	137214	46.054	ug/l	96
94) Hexachlorobutadiene	15.500	225	57394	43.315	ug/l	98
95) Naphthalene	15.641	128	471674	44.692	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	133315	45.221	ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083142.D
Acq On : 07 Aug 2024 14:49
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 06:35:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

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

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

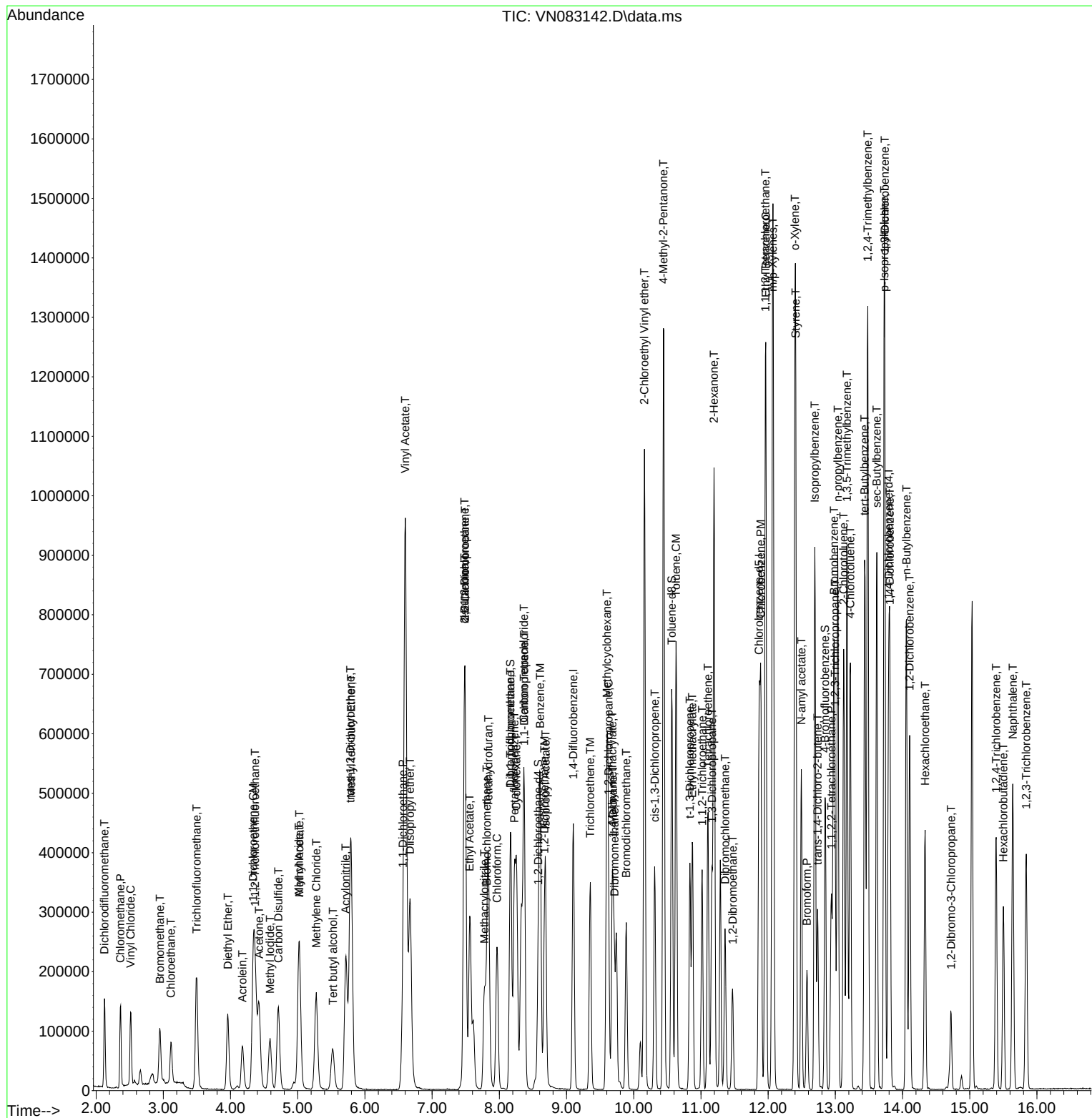
```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\  
Data File : VN083142.D  
Acq On    : 07 Aug 2024   14:49  
Operator  : JC\MD  
Sample    : VSTDICV050  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 11   Sample Multiplier: 1
```

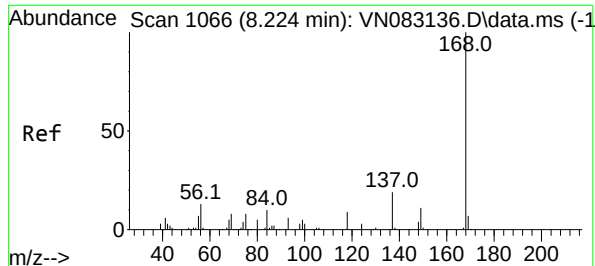
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

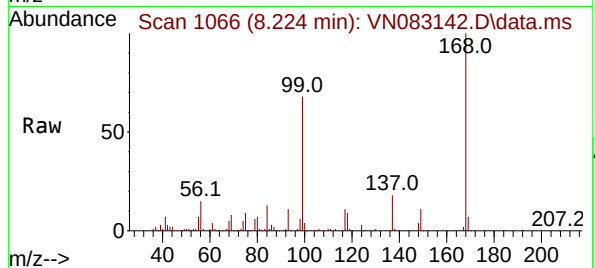
Quant Time: Aug 08 06:35:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

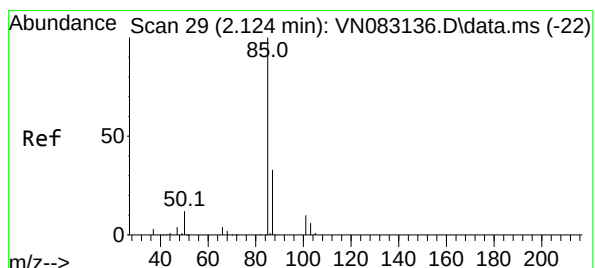
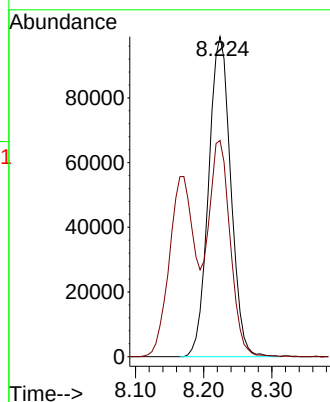
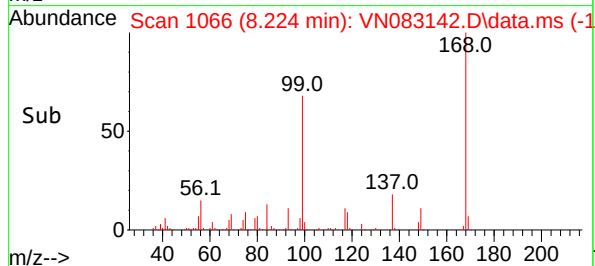
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion:168 Resp: 223680
Ion Ratio Lower Upper
168 100
99 67.4 48.2 72.4

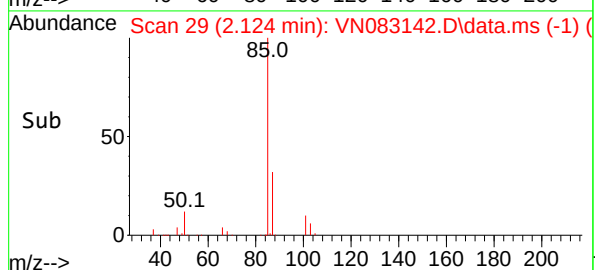
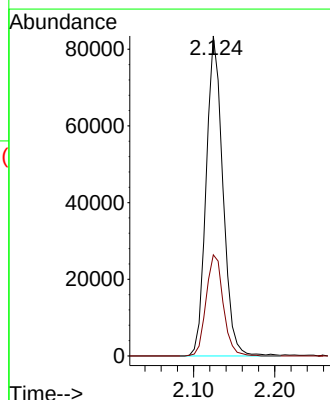
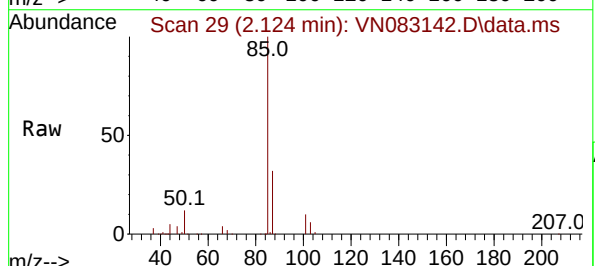
Manual Integrations
APPROVED

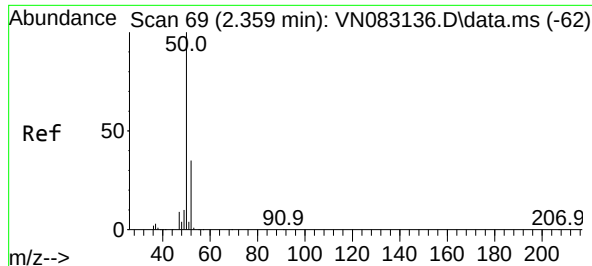
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#2
Dichlorodifluoromethane
Concen: 47.102 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

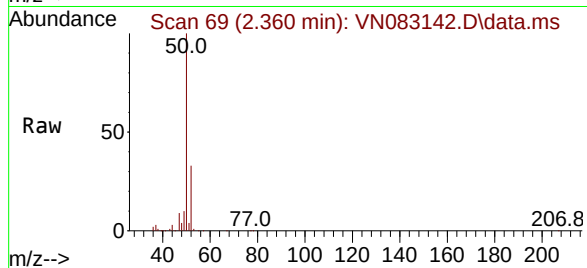
Tgt Ion: 85 Resp: 119481
Ion Ratio Lower Upper
85 100
87 31.6 15.7 47.0





#3
Chloromethane
Concen: 46.238 ug/l
RT: 2.360 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

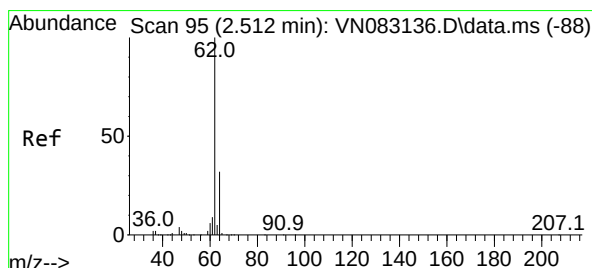
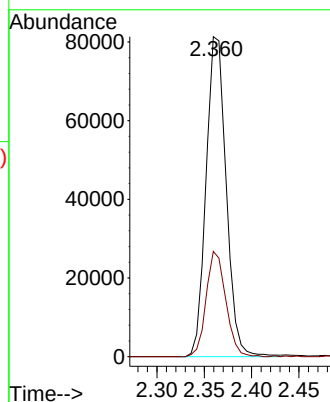
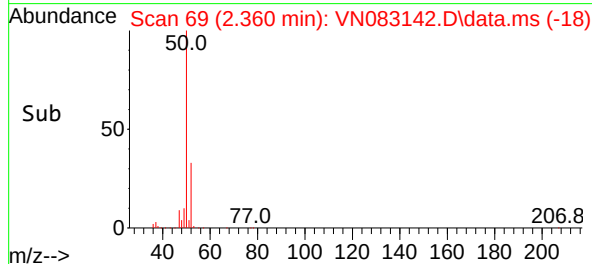
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion: 50 Resp: 12008
Ion Ratio Lower Upper
50 100
52 32.9 25.0 37.4

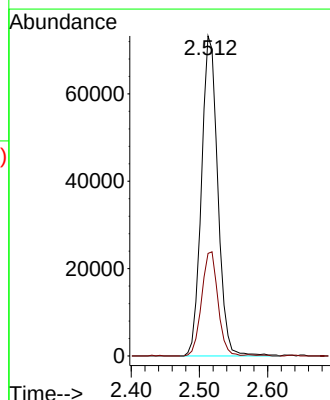
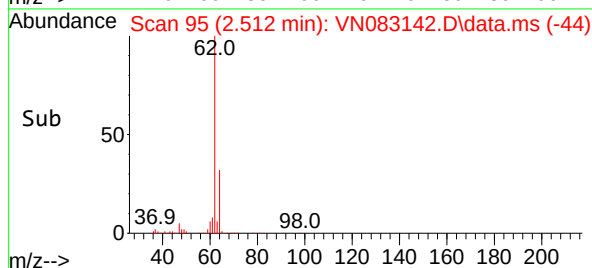
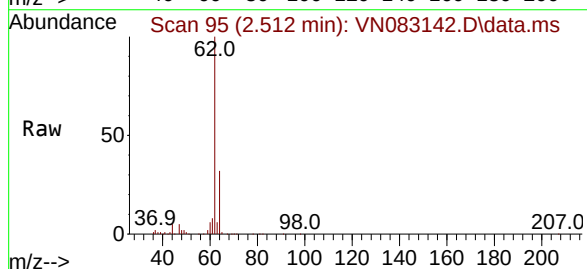
Manual Integrations
APPROVED

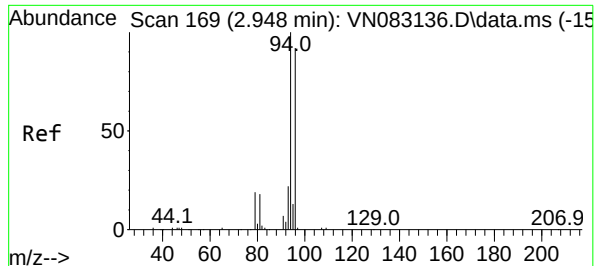
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#4
Vinyl Chloride
Concen: 45.937 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

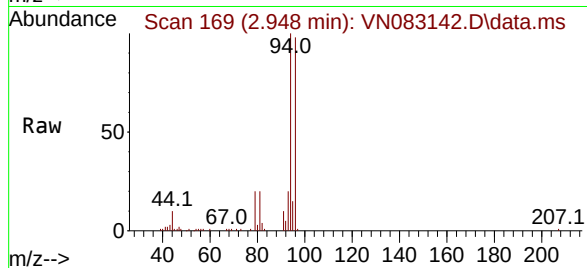
Tgt Ion: 62 Resp: 121730
Ion Ratio Lower Upper
62 100
64 32.0 25.0 37.6





#5
Bromomethane
Concen: 42.984 ug/l
RT: 2.948 min Scan# 169
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

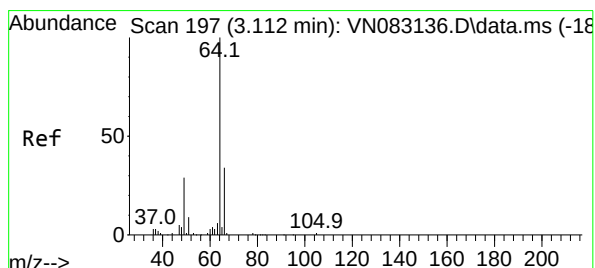
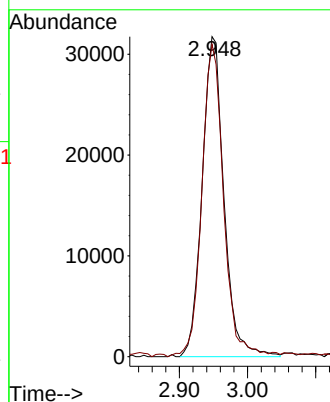
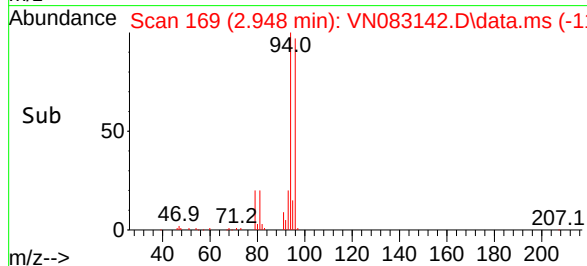
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion: 94 Resp: 70678
Ion Ratio Lower Upper
94 100
96 96.9 78.0 117.0

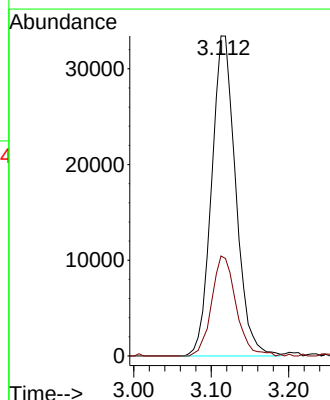
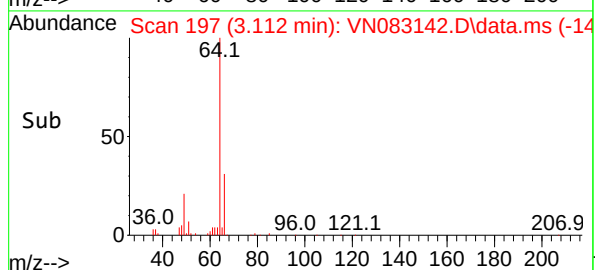
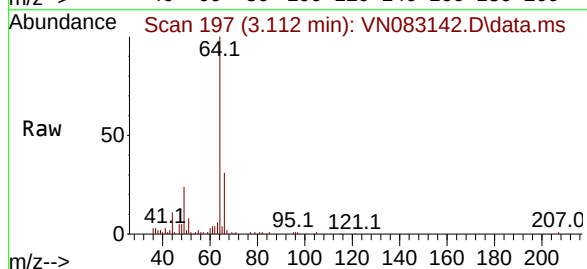
Manual Integrations
APPROVED

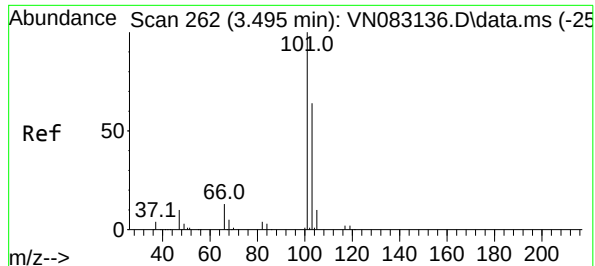
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#6
Chloroethane
Concen: 43.725 ug/l
RT: 3.112 min Scan# 197
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

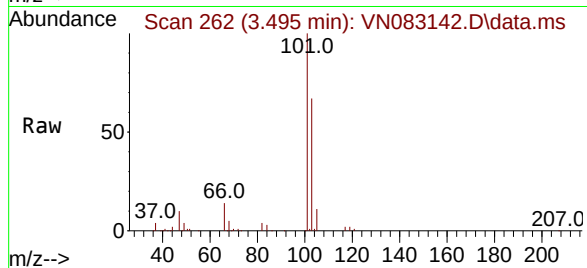
Tgt Ion: 64 Resp: 72491
Ion Ratio Lower Upper
64 100
66 31.3 26.6 40.0





#7
Trichlorofluoromethane
Concen: 47.124 ug/l
RT: 3.495 min Scan# 262
Delta R.T. -0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

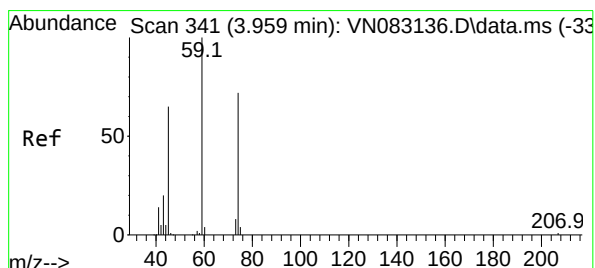
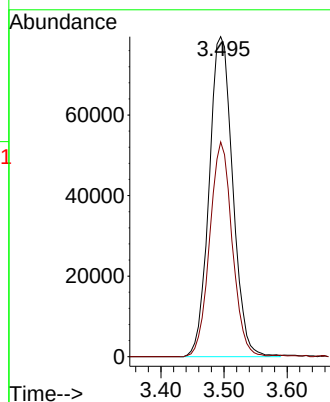
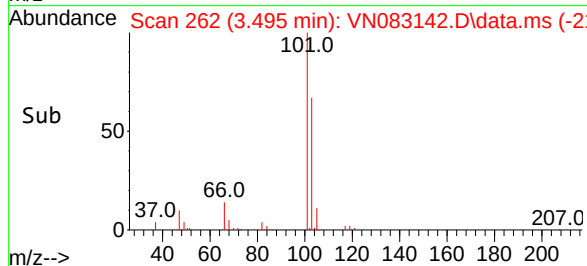
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion:101 Resp: 20629
Ion Ratio Lower Upper
101 100
103 67.1 52.7 79.1

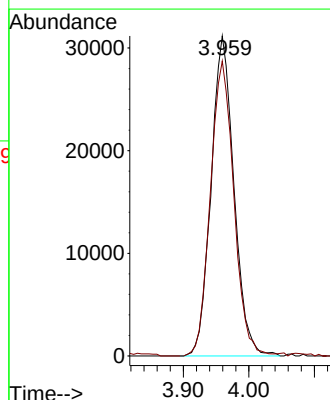
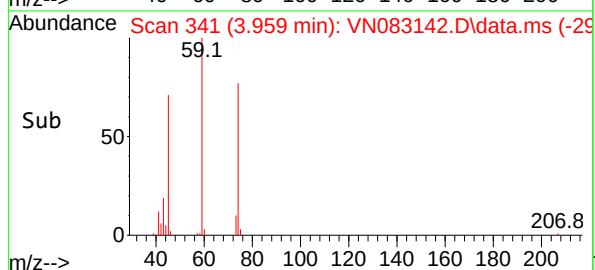
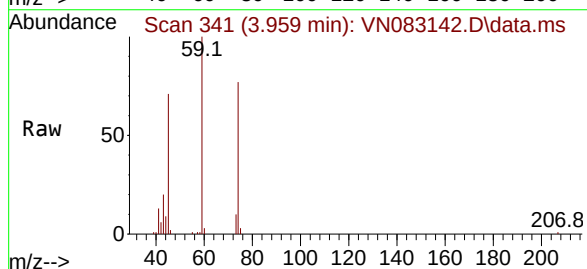
Manual Integrations
APPROVED

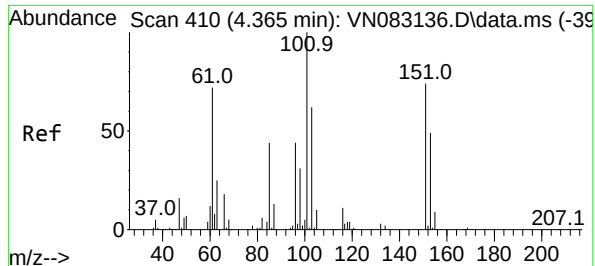
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#8
Diethyl Ether
Concen: 46.259 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 74 Resp: 75355
Ion Ratio Lower Upper
74 100
45 94.7 55.5 166.3





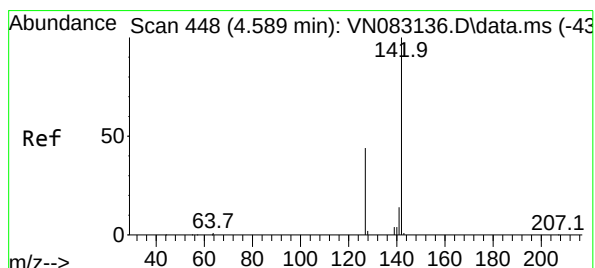
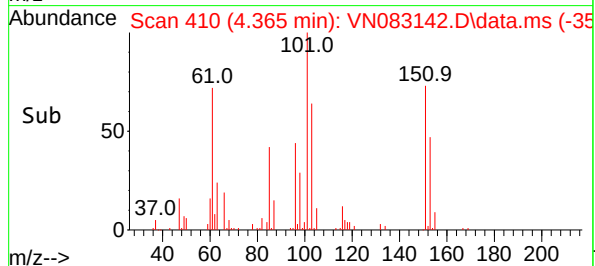
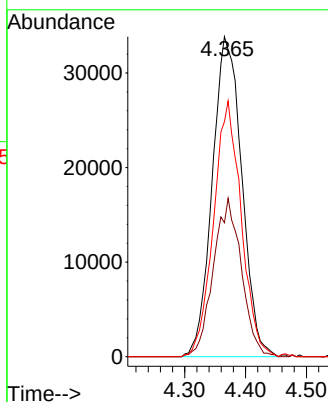
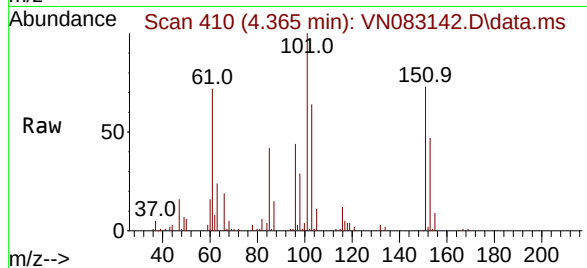
#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.176 ug/l
RT: 4.365 min Scan# 410
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Tgt Ion:101 Resp: 113860
Ion Ratio Lower Upper
101 100
85 47.0 38.3 57.5
151 75.1 59.3 88.9

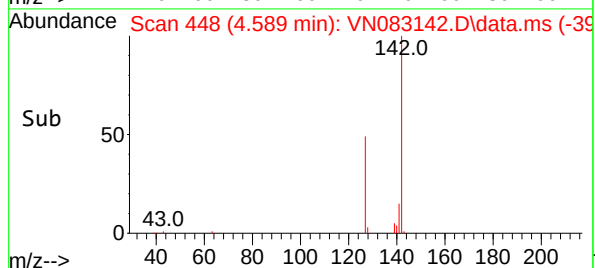
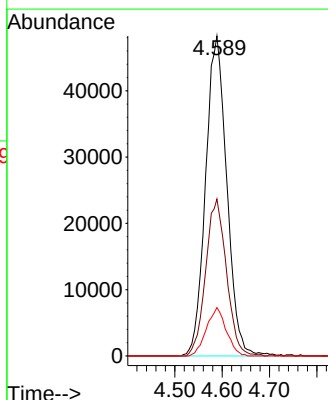
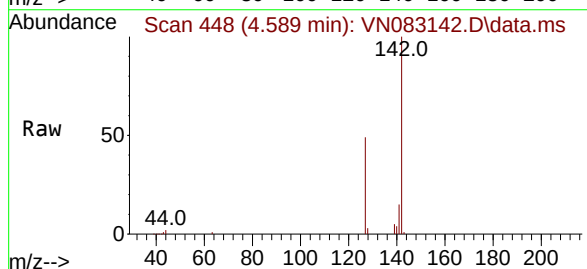
Manual Integrations
APPROVED

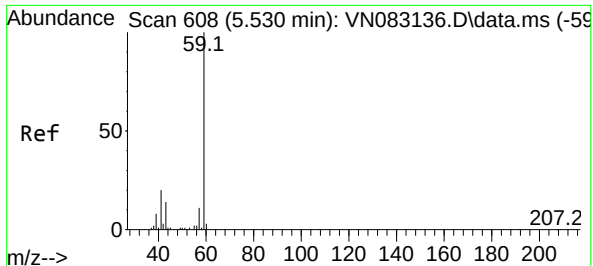
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#10
Methyl Iodide
Concen: 47.349 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:142 Resp: 150327
Ion Ratio Lower Upper
142 100
127 49.1 37.5 56.3
141 15.1 13.1 19.7





#11

Tert butyl alcohol

Concen: 208.135 ug/l

RT: 5.524 min Scan# 607

Delta R.T. -0.006 min

Lab File: VN083142.D

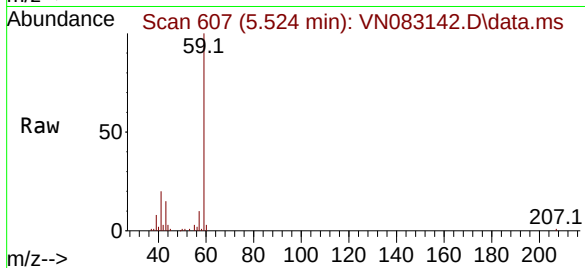
Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724



Tgt Ion: 59 Resp: 137718

Ion Ratio Lower Upper

59 100

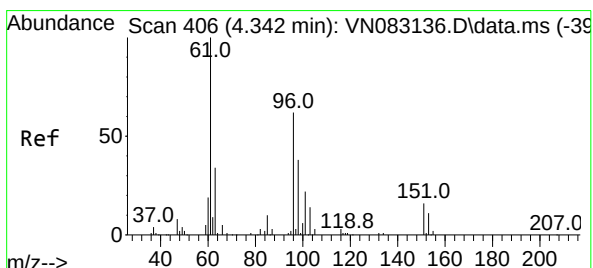
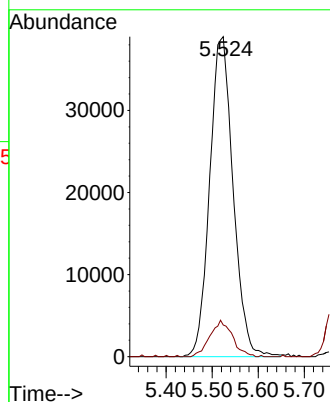
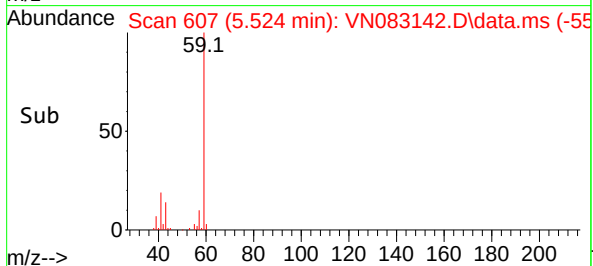
57 10.9 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#12

1,1-Dichloroethene

Concen: 45.562 ug/l

RT: 4.336 min Scan# 405

Delta R.T. -0.006 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

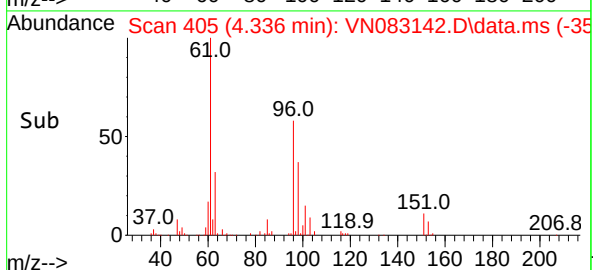
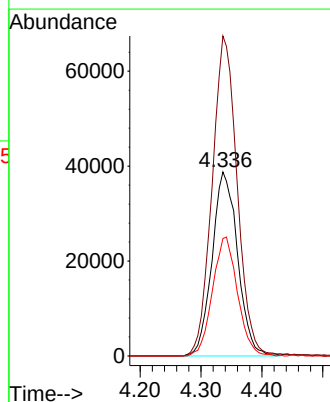
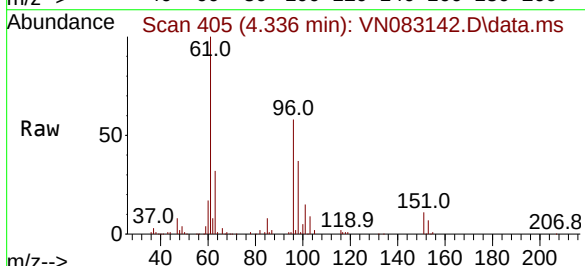
Tgt Ion: 96 Resp: 112976

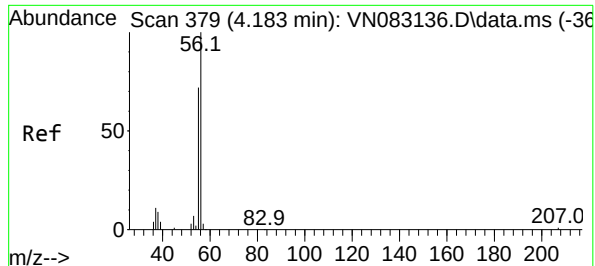
Ion Ratio Lower Upper

96 100

61 173.9 149.7 224.5

98 63.8 50.1 75.1





#13

Acrolein

Concen: 217.571 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.006 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724

Tgt Ion: 56 Resp: 93820

Ion Ratio Lower Upper

56 100

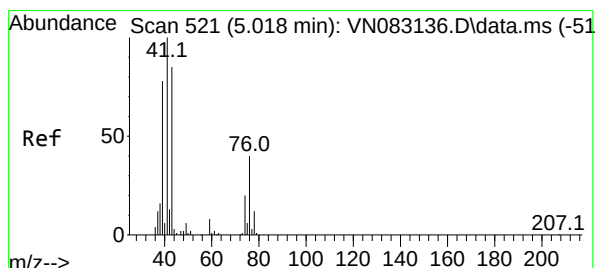
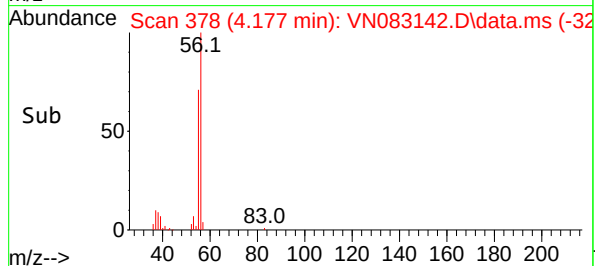
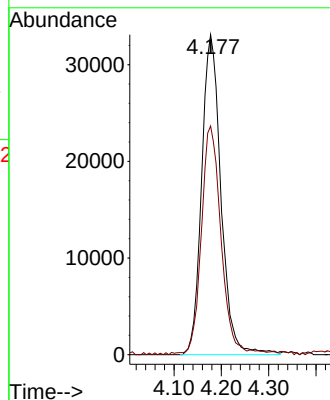
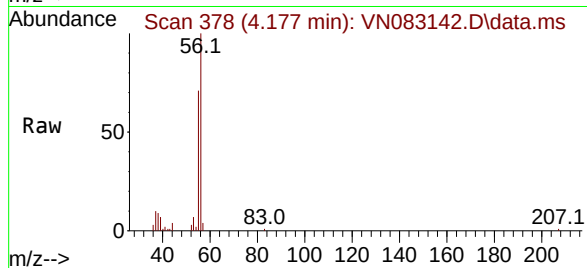
55 73.1 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#14

Allyl chloride

Concen: 41.173 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

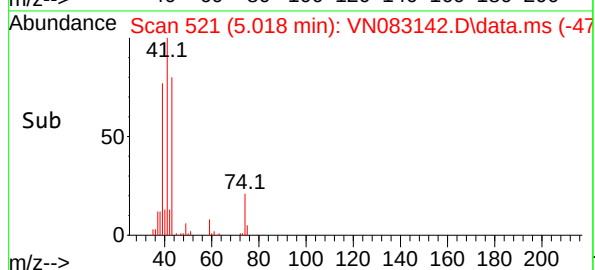
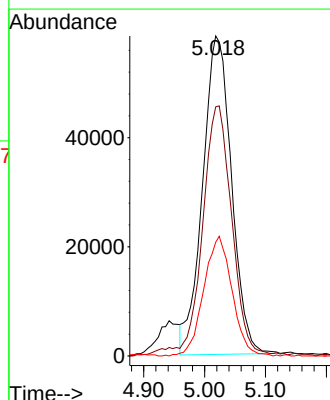
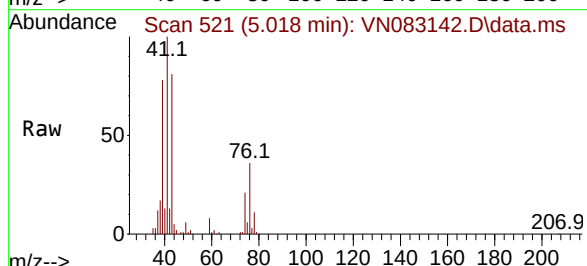
Tgt Ion: 41 Resp: 192929

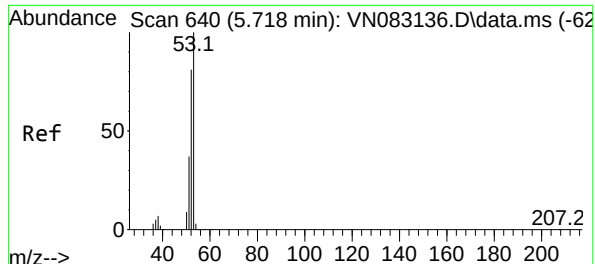
Ion Ratio Lower Upper

41 100

39 79.9 67.8 101.6

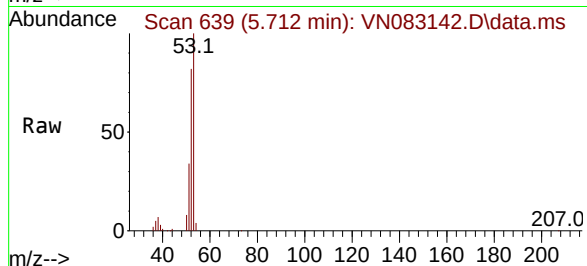
76 36.7 25.8 38.8





#15
Acrylonitrile
Concen: 217.950 ug/l
RT: 5.712 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

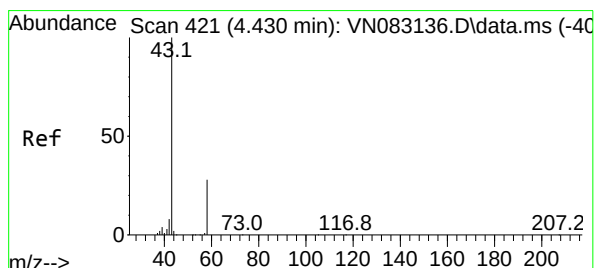
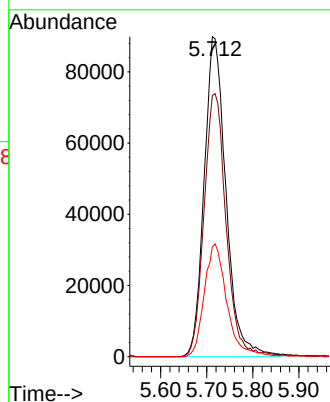
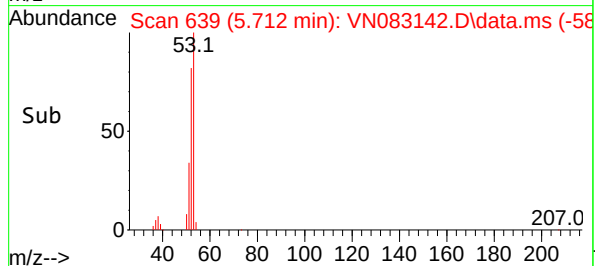
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion: 53 Resp: 296594
Ion Ratio Lower Upper
53 100
52 82.9 66.6 100.0
51 36.5 30.1 45.1

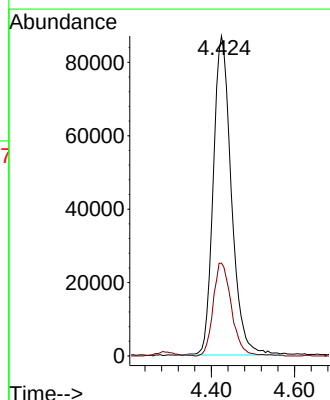
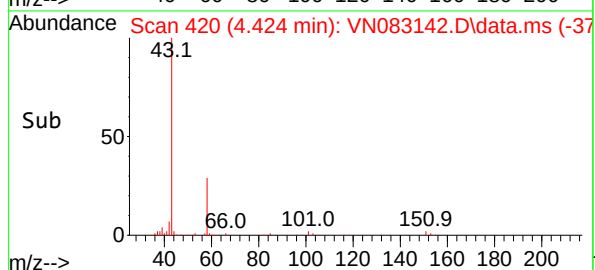
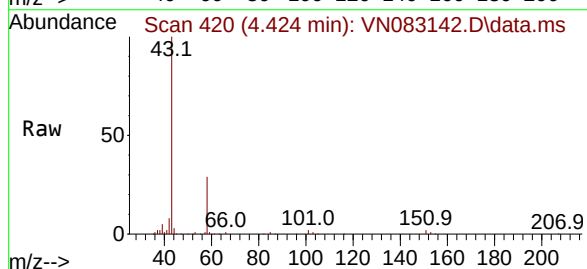
Manual Integrations
APPROVED

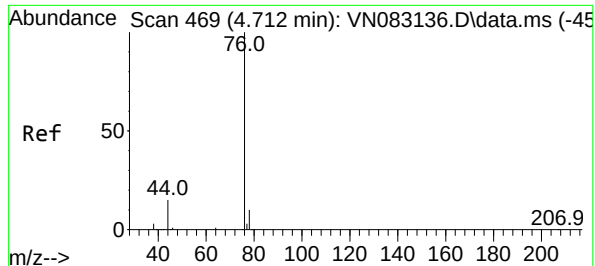
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#16
Acetone
Concen: 210.840 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

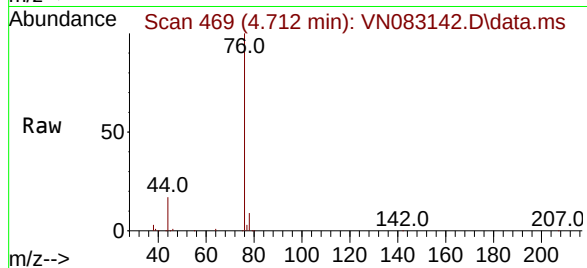
Tgt Ion: 43 Resp: 262677
Ion Ratio Lower Upper
43 100
58 28.9 21.8 32.6





#17
Carbon Disulfide
Concen: 43.689 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

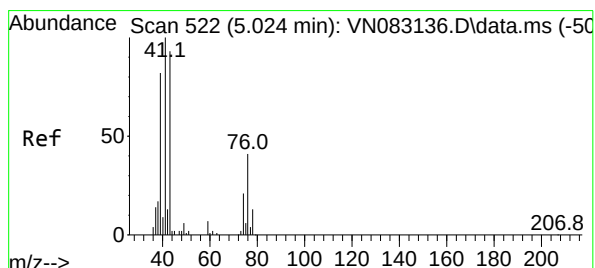
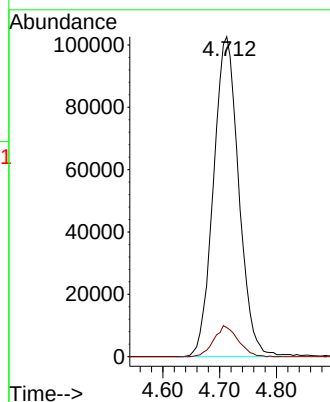
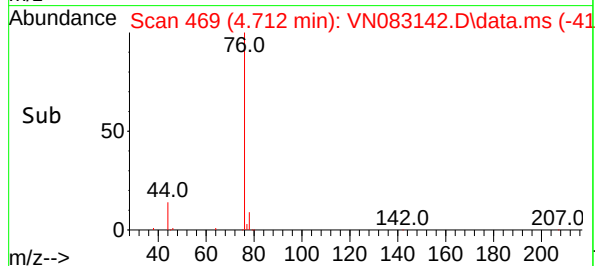
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion: 76 Resp: 316980
Ion Ratio Lower Upper
76 100
78 9.1 7.2 10.8

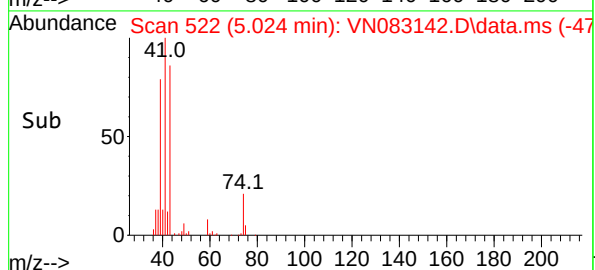
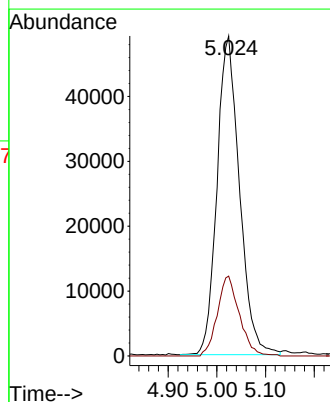
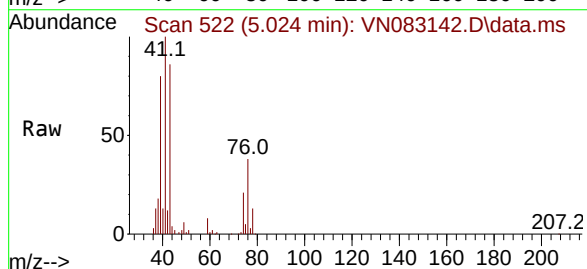
Manual Integrations
APPROVED

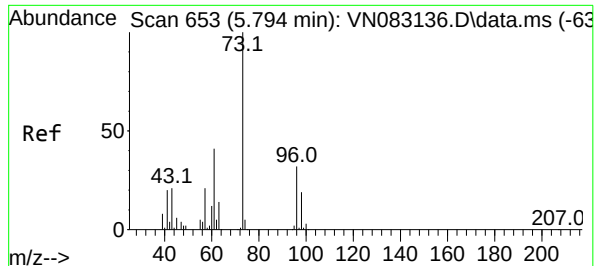
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#18
Methyl Acetate
Concen: 42.397 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

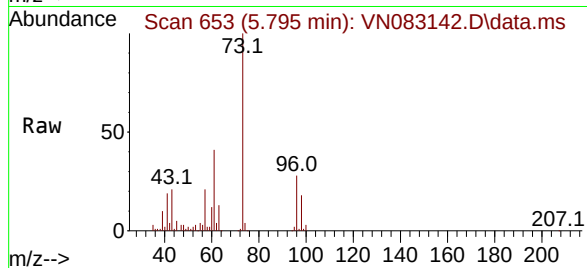
Tgt Ion: 43 Resp: 157374
Ion Ratio Lower Upper
43 100
74 24.6 16.3 24.5#





#19
Methyl tert-butyl Ether
Concen: 46.781 ug/l
RT: 5.795 min Scan# 61
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

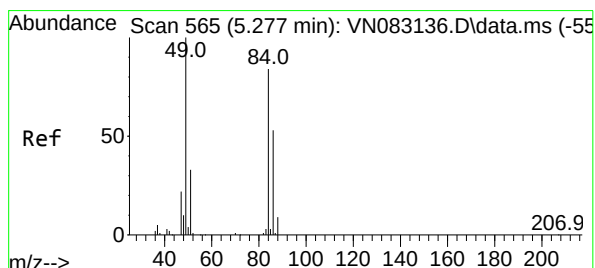
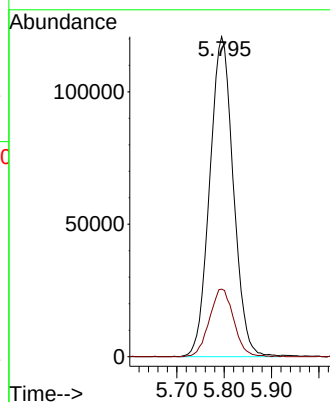
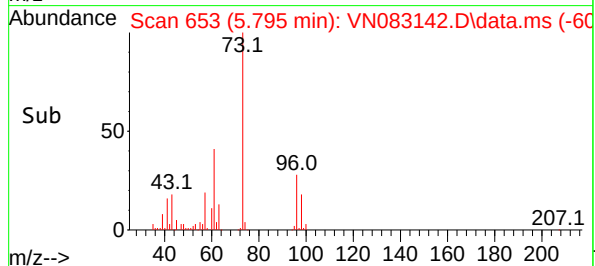
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion: 73 Resp: 41869
Ion Ratio Lower Upper
73 100
57 21.1 17.9 26.9

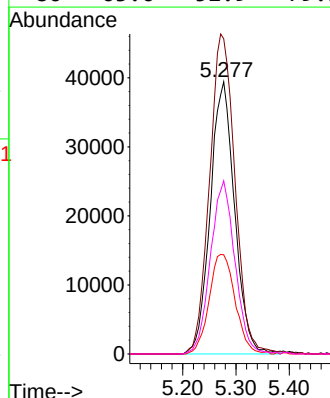
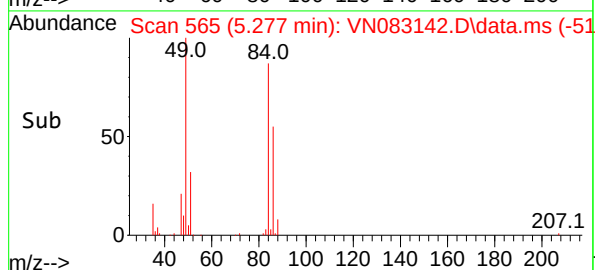
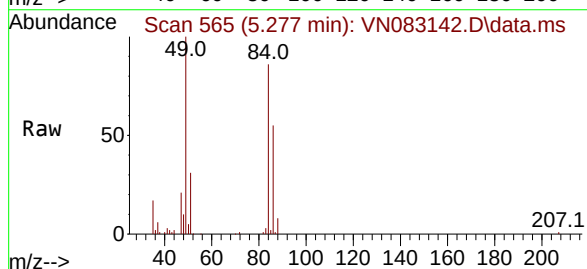
Manual Integrations
APPROVED

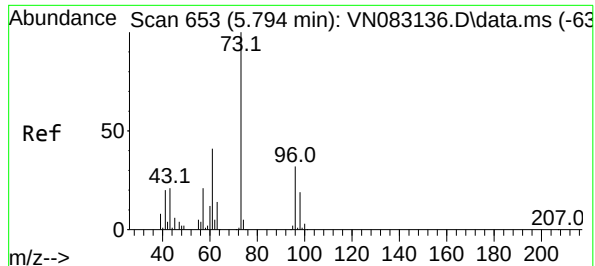
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#20
Methylene Chloride
Concen: 43.645 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

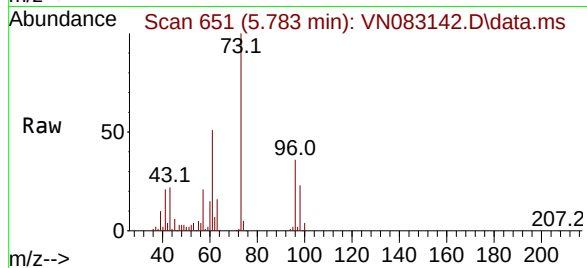
Tgt Ion: 84 Resp: 125142
Ion Ratio Lower Upper
84 100
49 115.8 119.6 179.4#
51 36.5 34.8 52.2
86 63.6 52.9 79.3





#21
trans-1,2-Dichloroethene
Concen: 45.671 ug/l
RT: 5.783 min Scan# 61
Delta R.T. -0.012 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

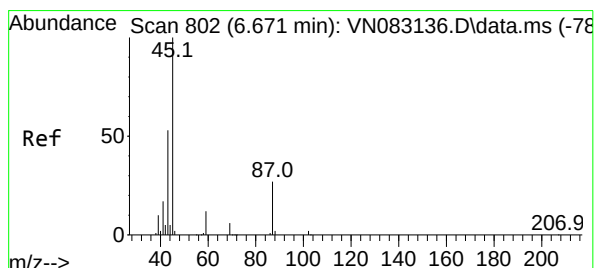
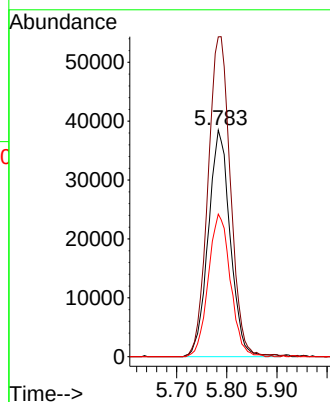
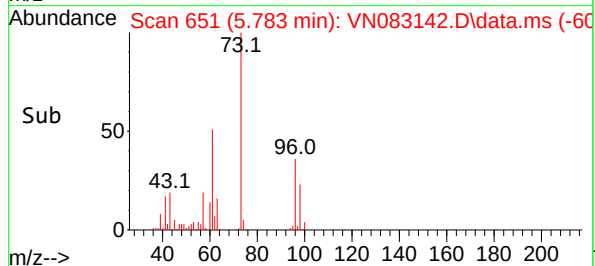
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion: 96 Resp: 117049
Ion Ratio Lower Upper
96 100
61 141.1 123.4 185.2
98 62.9 49.3 73.9

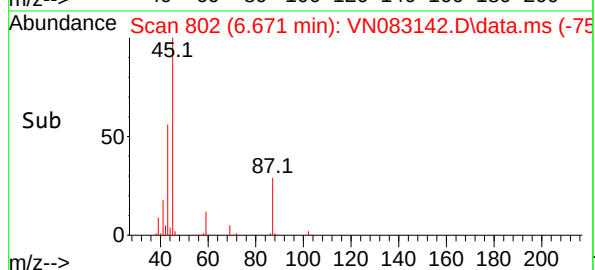
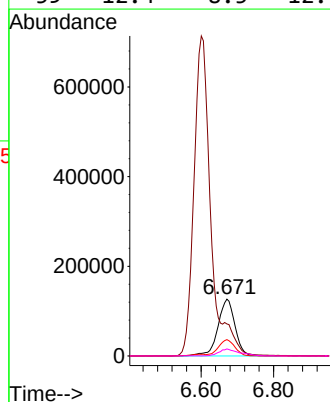
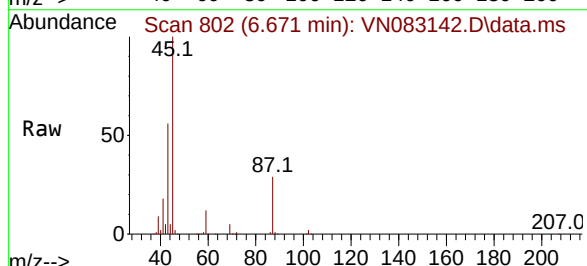
Manual Integrations
APPROVED

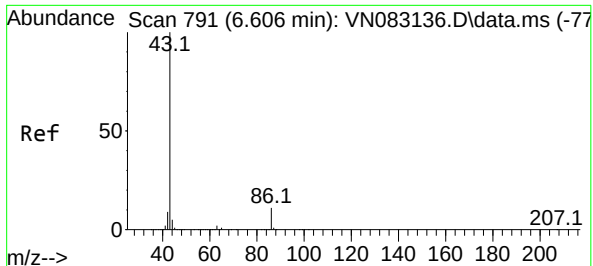
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#22
Diisopropyl ether
Concen: 46.881 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

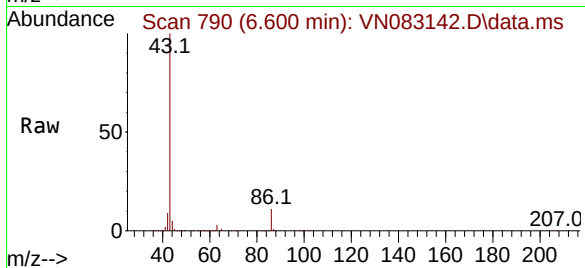
Tgt Ion: 45 Resp: 412931
Ion Ratio Lower Upper
45 100
43 55.6 44.0 66.0
87 28.6 19.7 29.5
59 12.4 8.5 12.7





#23
Vinyl Acetate
Concen: 235.414 ug/l
RT: 6.600 min Scan# 791
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

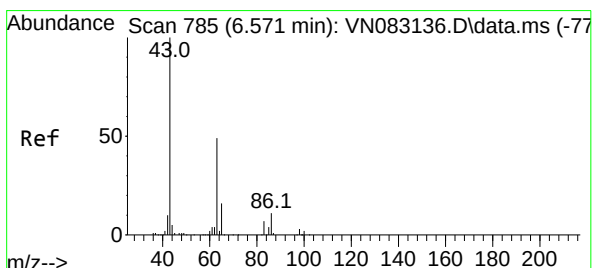
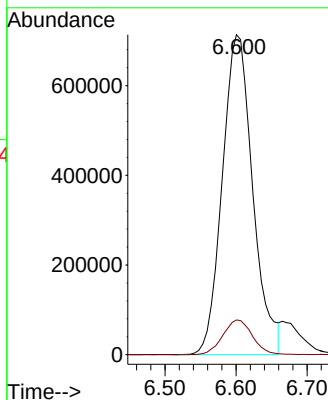
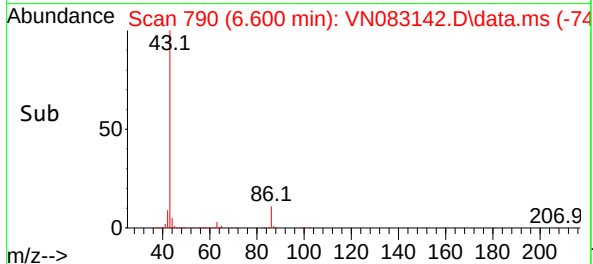
Instrument :
MSVOA_N
Client Sample Id :
ICVVN080724



Tgt Ion: 43 Resp: 212534
Ion Ratio Lower Upper
43 100
86 10.9 7.3 10.9

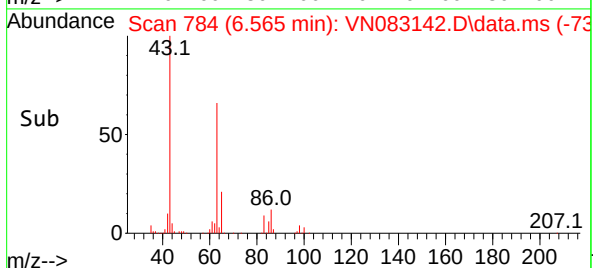
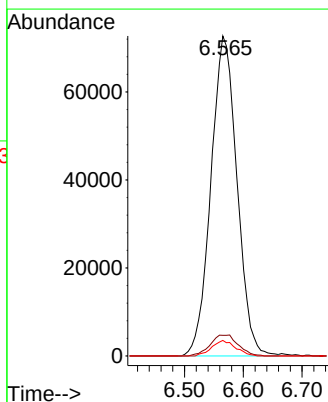
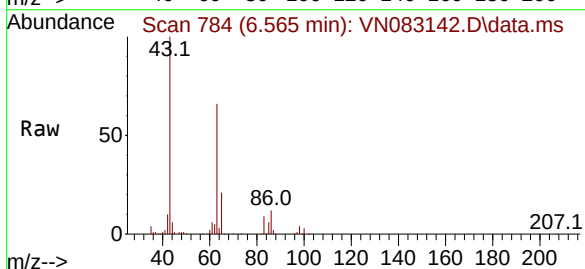
Manual Integrations
APPROVED

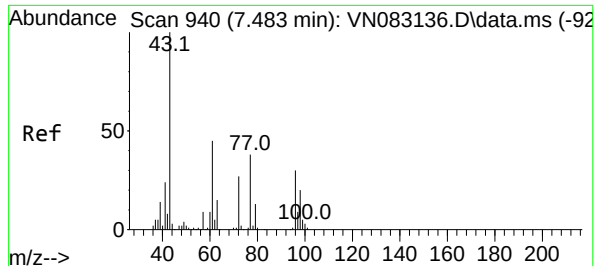
Reviewed By : John Carlone 08/08/2024
Supervised By : Mahesh Dadoda 08/09/2024



#24
1,1-Dichloroethane
Concen: 46.685 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

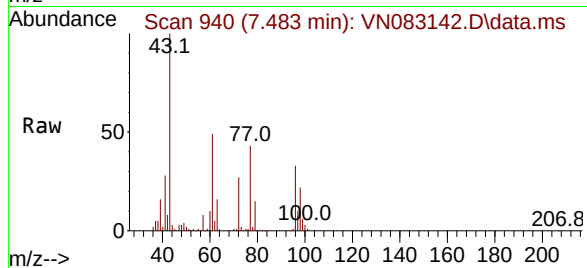
Tgt Ion: 63 Resp: 224136
Ion Ratio Lower Upper
63 100
98 6.5 3.3 9.9
100 4.9 2.0 6.0





#25
2-Butanone
Concen: 211.782 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

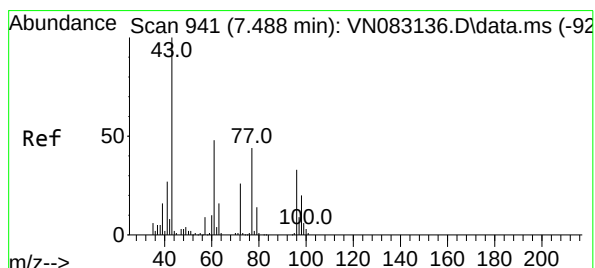
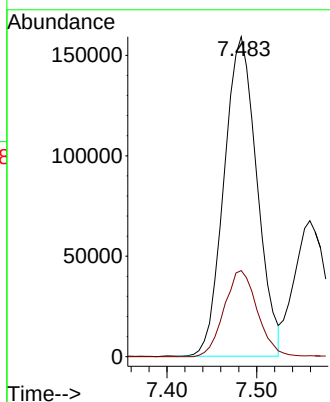
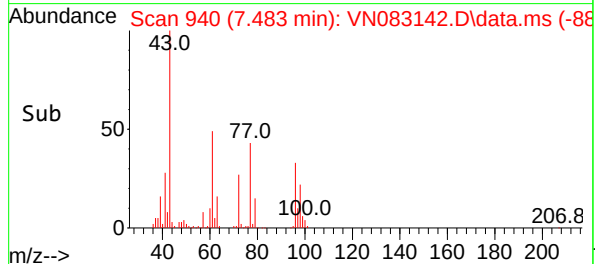
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion: 43 Resp: 405134
Ion Ratio Lower Upper
43 100
72 26.9 18.2 27.2

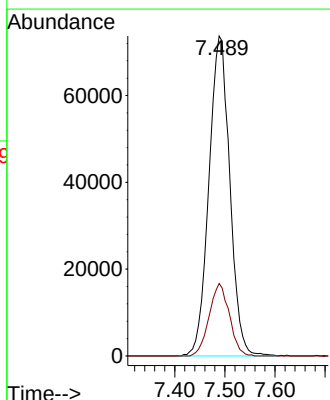
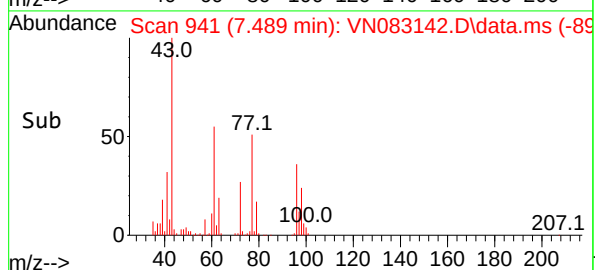
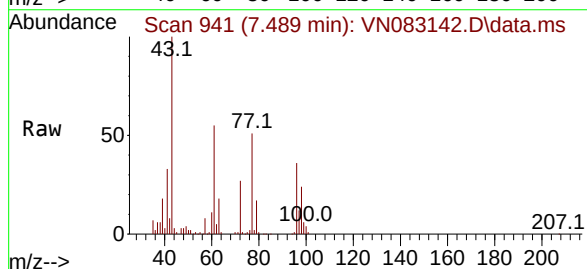
Manual Integrations
APPROVED

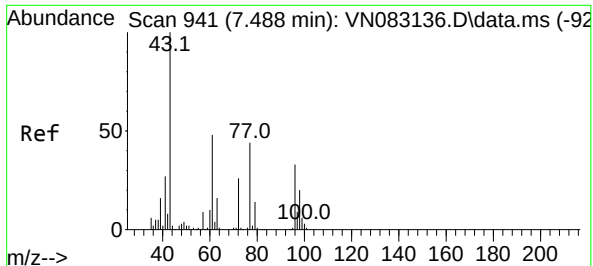
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#26
2,2-Dichloropropane
Concen: 47.853 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

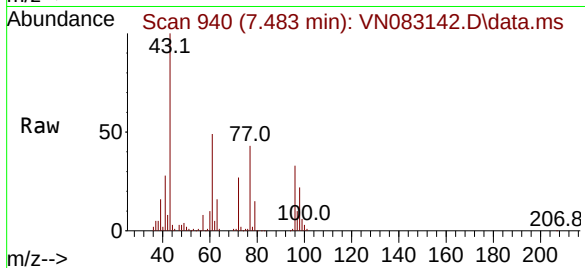
Tgt Ion: 77 Resp: 213355
Ion Ratio Lower Upper
77 100
97 21.9 10.3 30.9





#27
cis-1,2-Dichloroethene
Concen: 46.113 ug/l
RT: 7.483 min Scan# 941
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

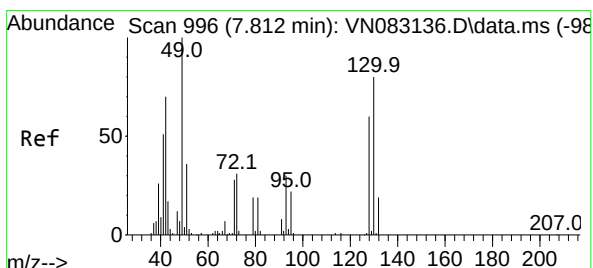
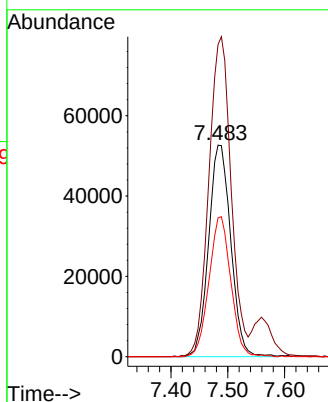
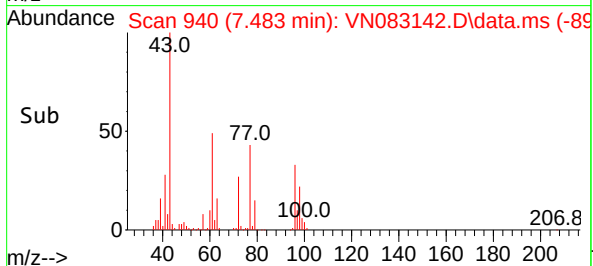
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion: 96 Resp: 142600
Ion Ratio Lower Upper
96 100
61 151.9 0.0 329.6
98 65.2 0.0 128.6

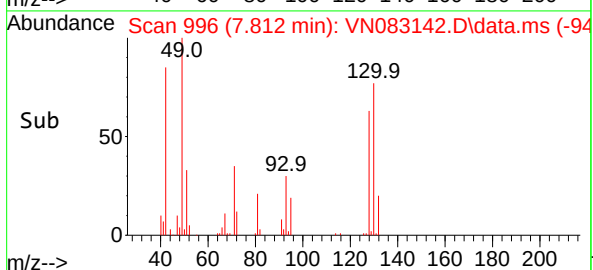
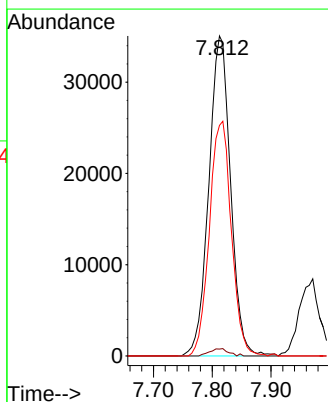
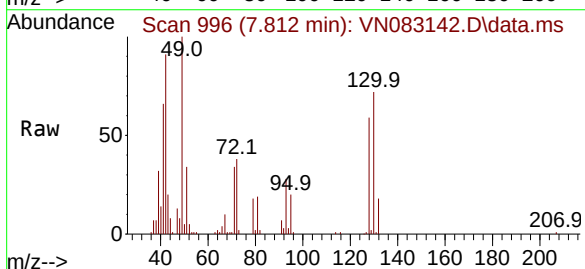
Manual Integrations
APPROVED

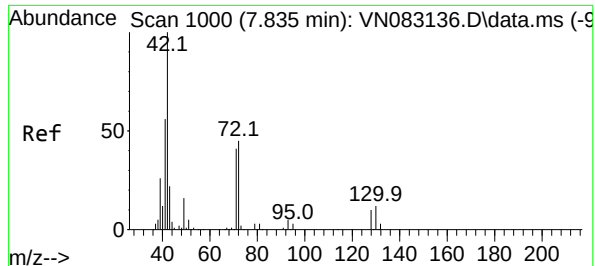
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#28
Bromochloromethane
Concen: 45.986 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 49 Resp: 90226
Ion Ratio Lower Upper
49 100
129 2.0 0.0 3.8
130 73.9 50.5 75.7





#29

Tetrahydrofuran

Concen: 222.147 ug/l

RT: 7.836 min Scan# 1000

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724

Tgt Ion: 42 Resp: 274710

Ion Ratio Lower Upper

42 100

72 44.2 30.0 45.0

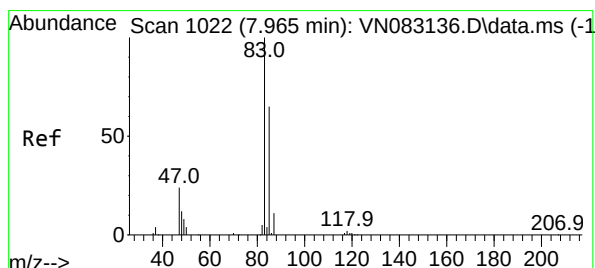
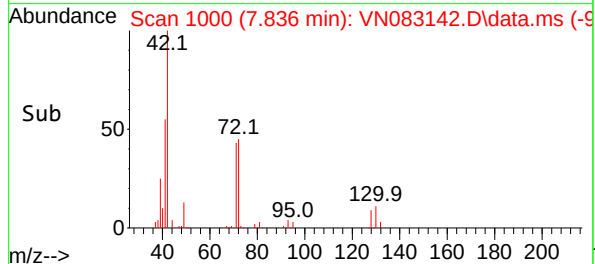
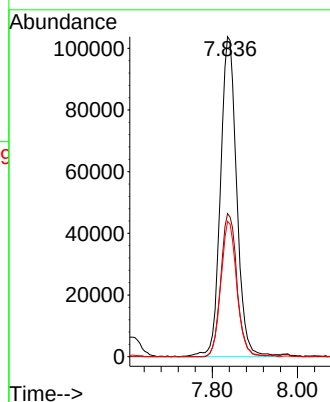
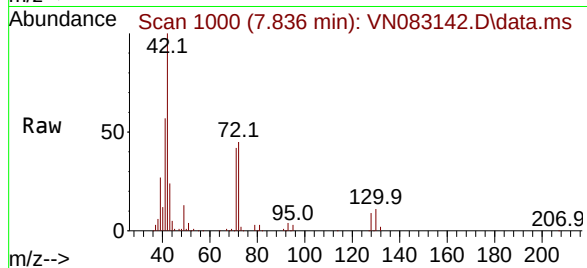
71 41.5 28.3 42.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#30

Chloroform

Concen: 47.387 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.000 min

Lab File: VN083142.D

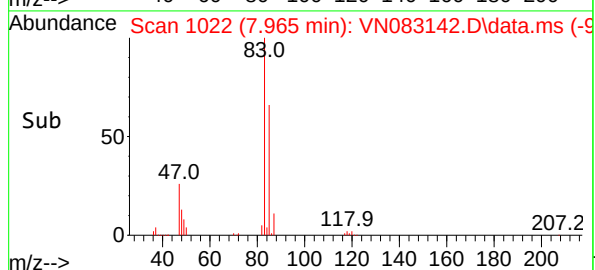
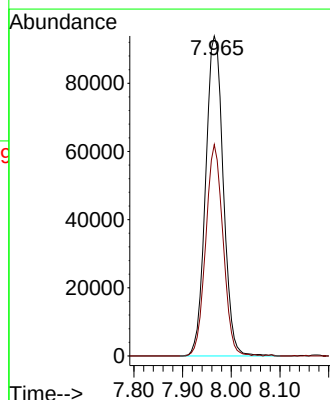
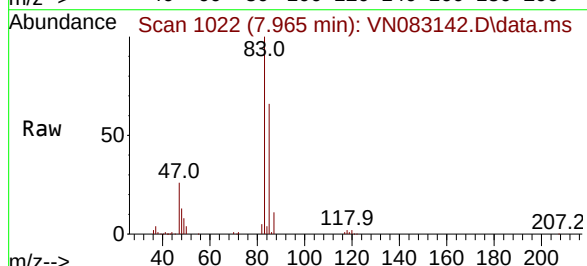
Acq: 07 Aug 2024 14:49

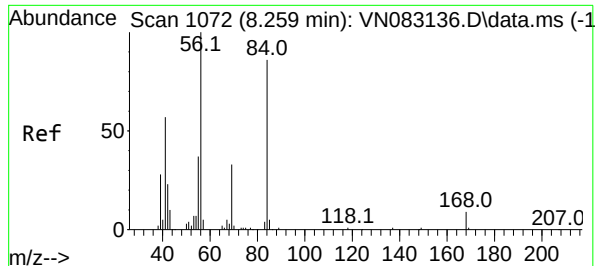
Tgt Ion: 83 Resp: 236359

Ion Ratio Lower Upper

83 100

85 66.1 50.9 76.3





#31

Cyclohexane

Concen: 43.474 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.006 min

Lab File: VN083142.D

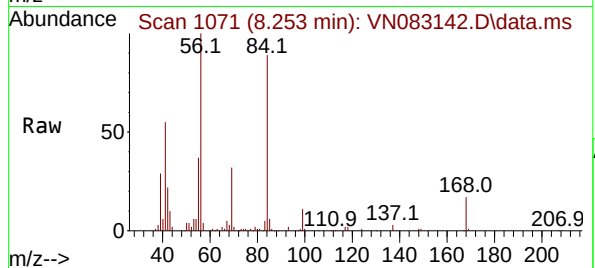
Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724



Tgt Ion: 56 Resp: 205124

Ion Ratio Lower Upper

56 100

69 32.3 24.5 36.7

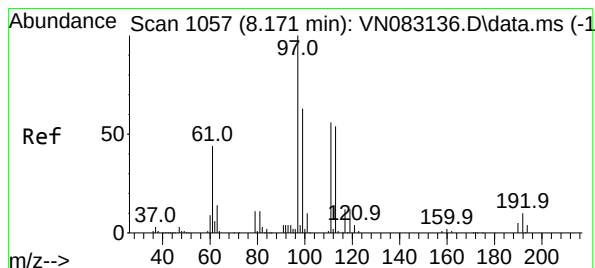
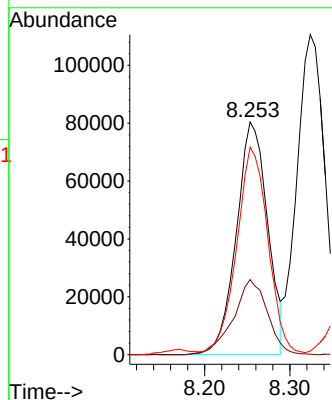
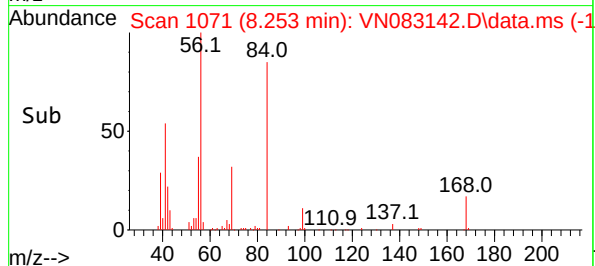
84 86.7 66.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#32

1,1,1-Trichloroethane

Concen: 47.135 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

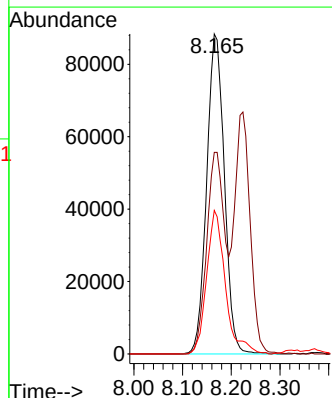
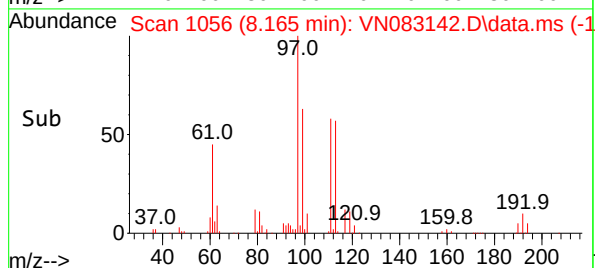
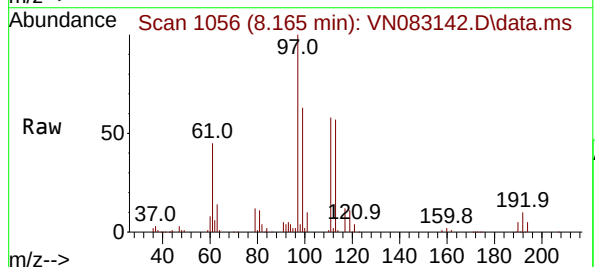
Tgt Ion: 97 Resp: 222538

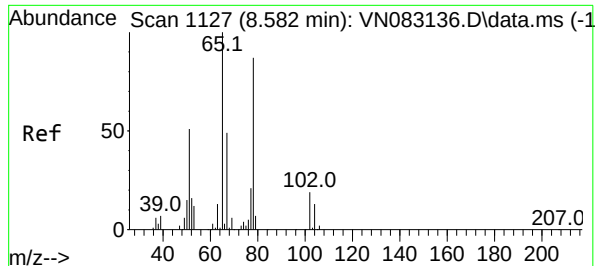
Ion Ratio Lower Upper

97 100

99 64.0 52.0 78.0

61 47.5 42.1 63.1





#33

1,2-Dichloroethane-d4

Concen: 50.583 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724

Tgt Ion: 65 Resp: 16105

Ion Ratio Lower Upper

65 100

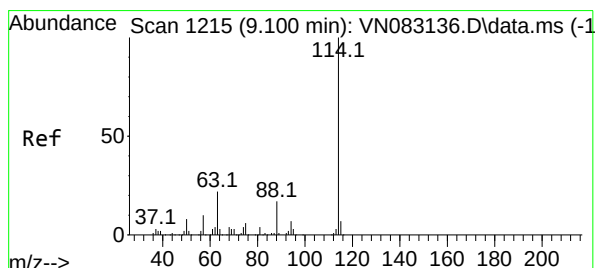
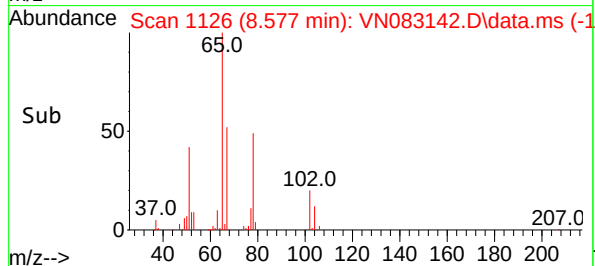
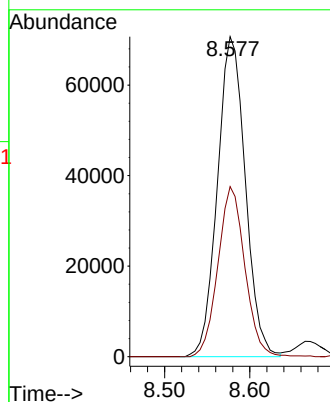
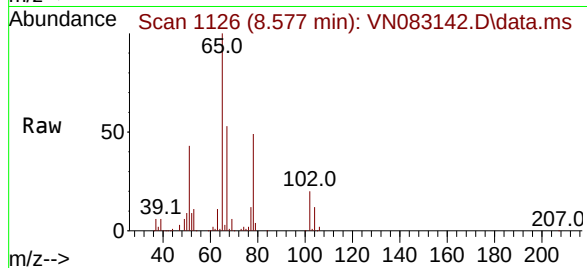
67 51.3 0.0 104.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

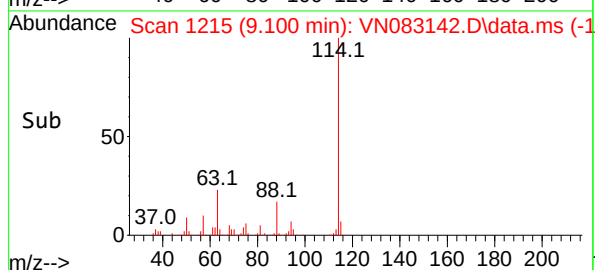
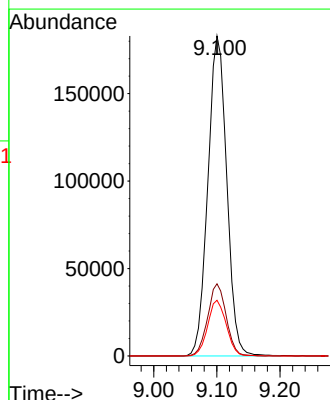
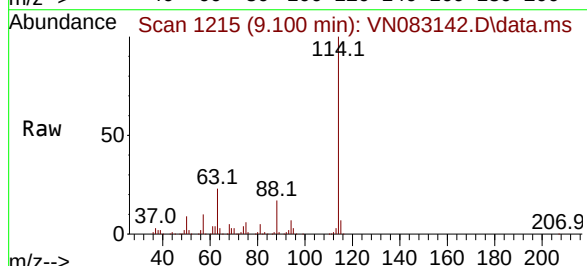
Tgt Ion:114 Resp: 380000

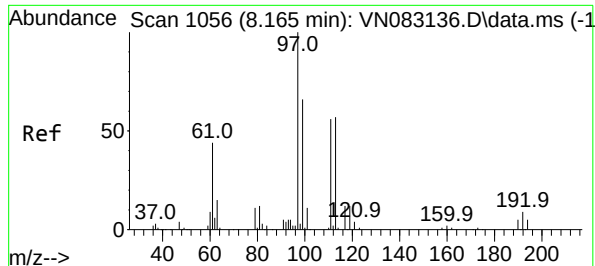
Ion Ratio Lower Upper

114 100

63 22.6 0.0 44.6

88 17.4 0.0 31.4





#35

Dibromofluoromethane

Concen: 51.549 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724

Tgt Ion:113 Resp: 12226

Ion Ratio Lower Upper

113 100

111 102.3 82.4 123.6

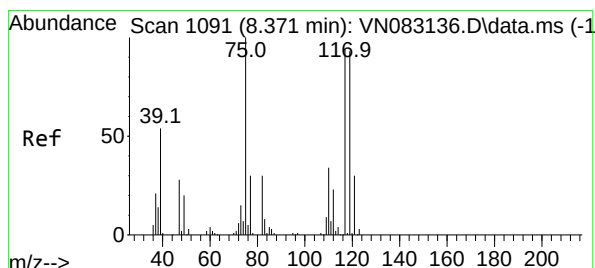
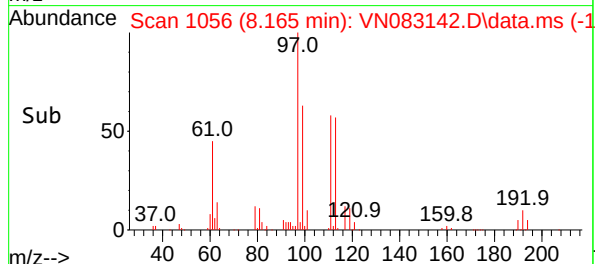
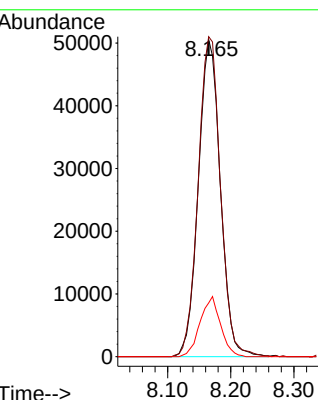
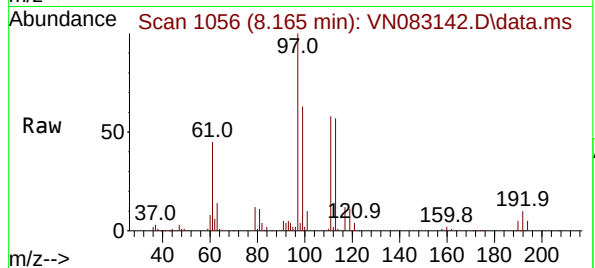
192 17.6 14.9 22.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#36

1,1-Dichloropropene

Concen: 47.732 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

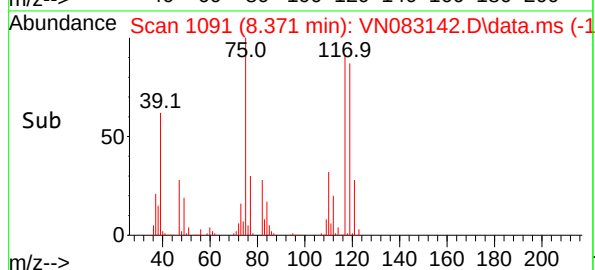
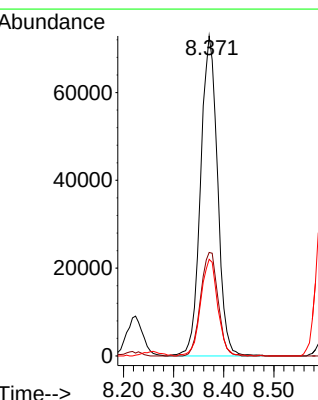
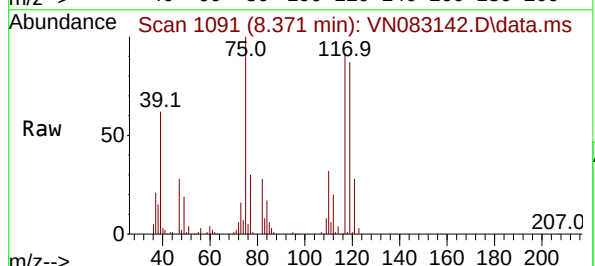
Tgt Ion: 75 Resp: 171262

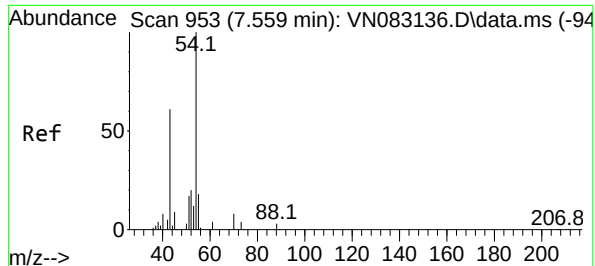
Ion Ratio Lower Upper

75 100

110 33.2 16.3 48.9

77 30.5 24.6 37.0





#37

Ethyl Acetate

Concen: 43.124 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN083142.D

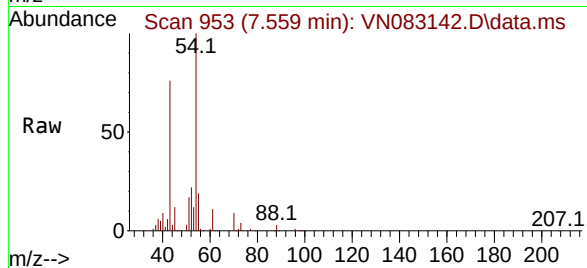
Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724



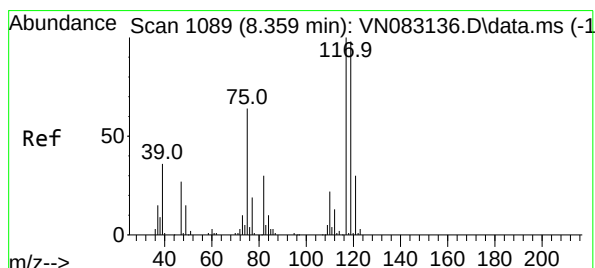
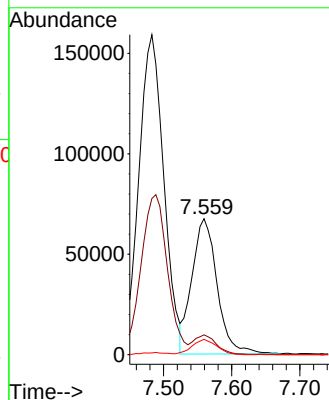
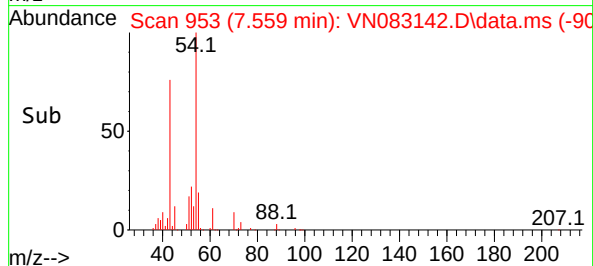
Tgt Ion:	43	Resp:	173240
Ion	Ratio	Lower	Upper
43	100		
61	12.9	9.3	13.9
70	11.0	7.0	10.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#38

Carbon Tetrachloride

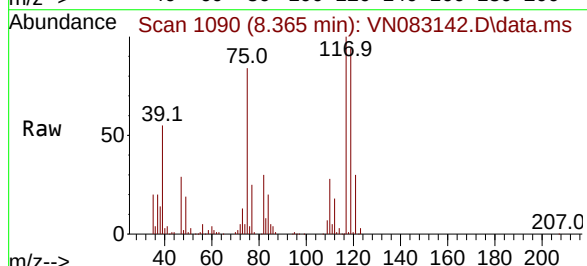
Concen: 47.904 ug/l

RT: 8.365 min Scan# 1090

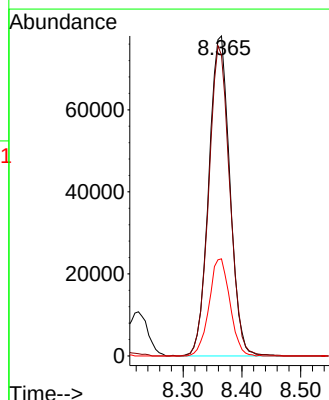
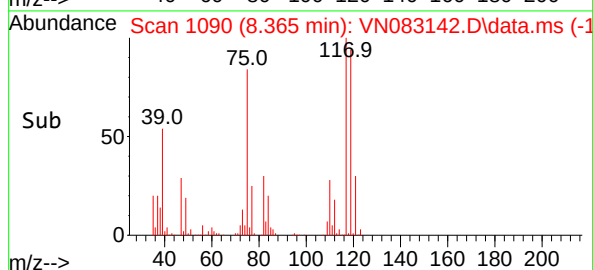
Delta R.T. 0.006 min

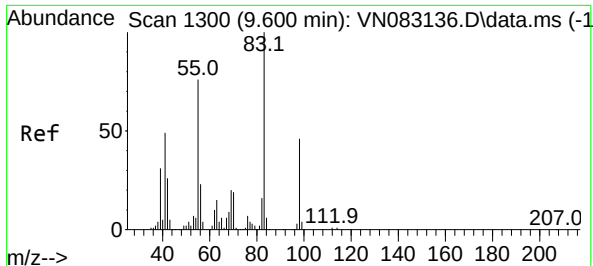
Lab File: VN083142.D

Acq: 07 Aug 2024 14:49



Tgt Ion:	117	Resp:	193592
Ion	Ratio	Lower	Upper
117	100		
119	94.0	74.9	112.3
121	30.3	24.3	36.5





#39

Methylcyclohexane

Concen: 47.821 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724

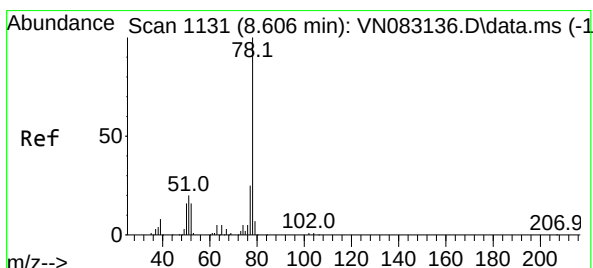
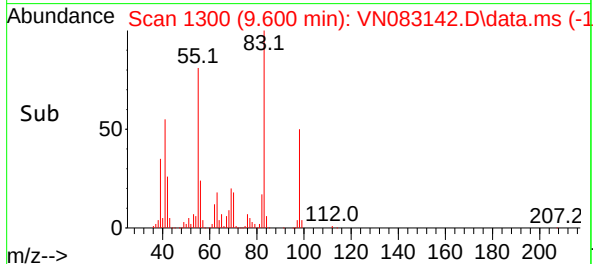
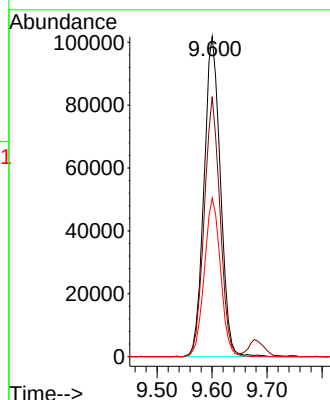
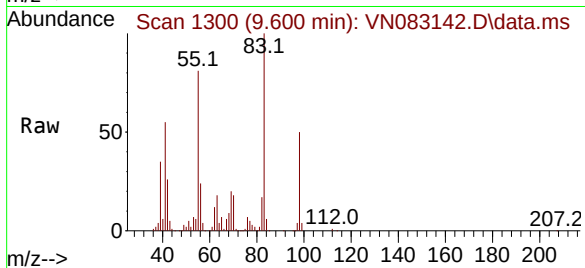
Tgt Ion:	83	Resp:	21074
Ion	Ratio	Lower	Upper
83	100		
55	81.3	66.4	99.6
98	49.5	40.7	61.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#40

Benzene

Concen: 47.635 ug/l

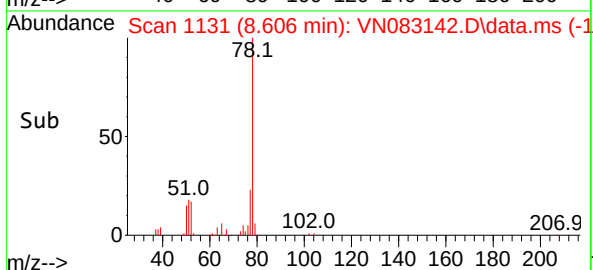
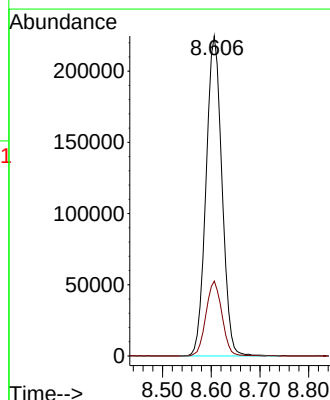
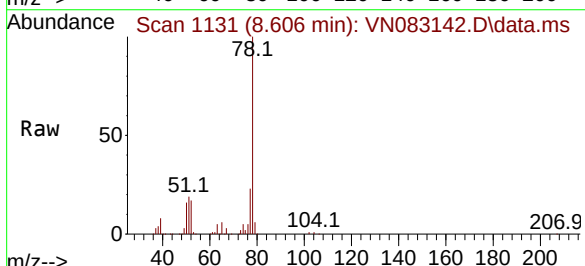
RT: 8.606 min Scan# 1131

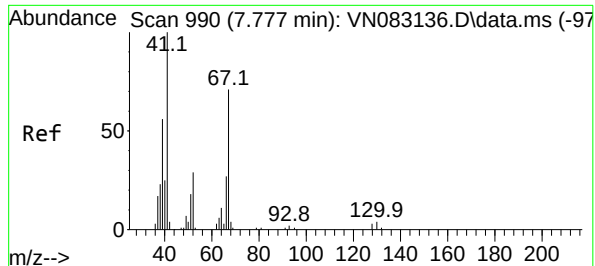
Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

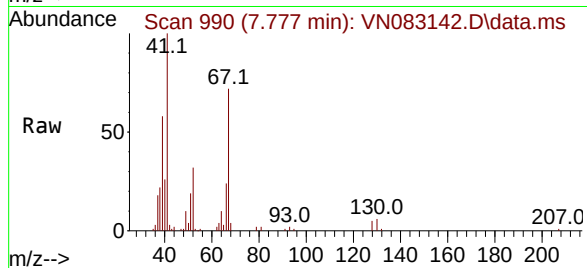
Tgt Ion:	78	Resp:	509159
Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.0	28.4





#41
Methacrylonitrile
Concen: 43.013 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

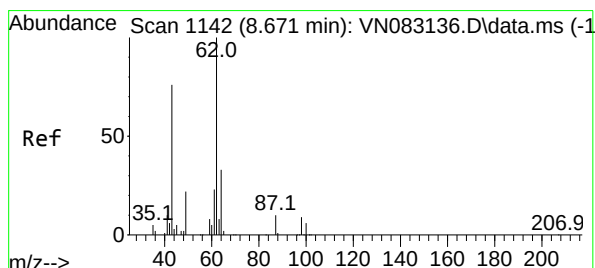
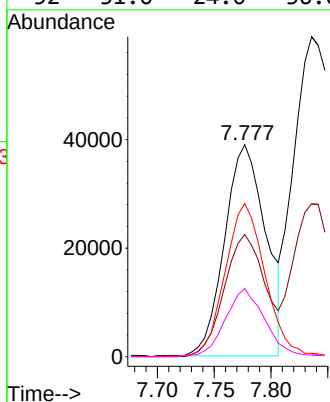
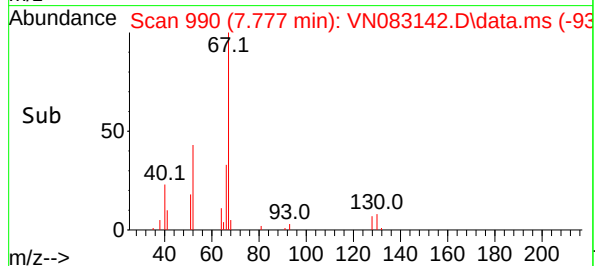
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



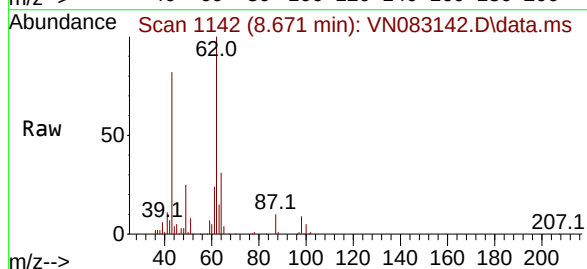
Tgt Ion: 41 Resp: 9825
Ion Ratio Lower Upper
41 100
39 57.7 45.5 68.3
67 70.8 50.5 75.7
52 31.0 24.0 36.0

Manual Integrations
APPROVED

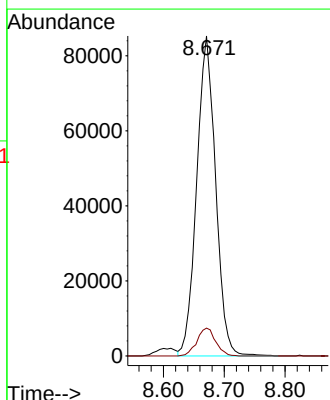
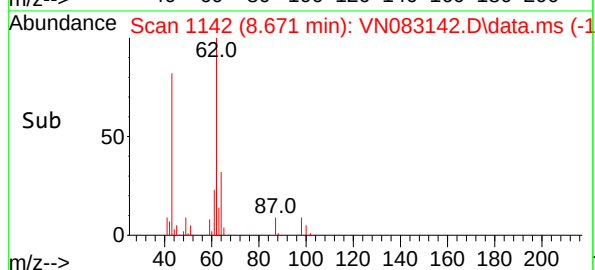
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

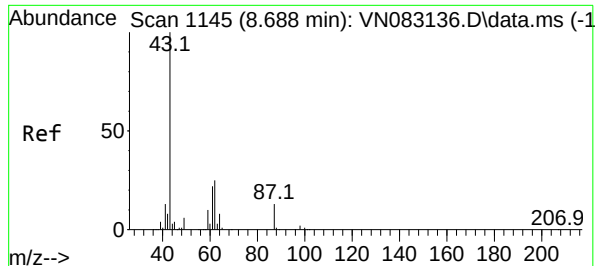


#42
1,2-Dichloroethane
Concen: 47.310 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49



Tgt Ion: 62 Resp: 184210
Ion Ratio Lower Upper
62 100
98 8.6 0.0 15.8





#43

Isopropyl Acetate

Concen: 45.577 ug/l

RT: 8.689 min Scan# 1145

Delta R.T. 0.001 min

Lab File: VN083142.D

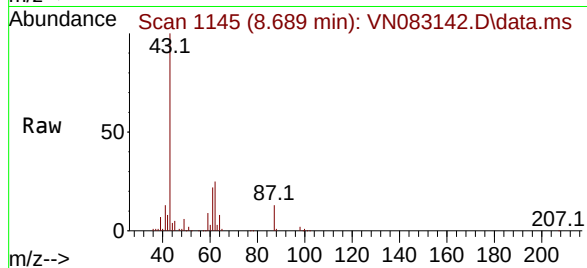
Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724



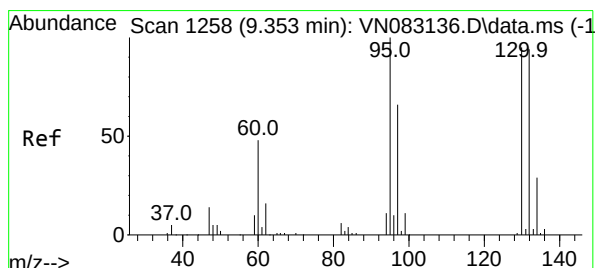
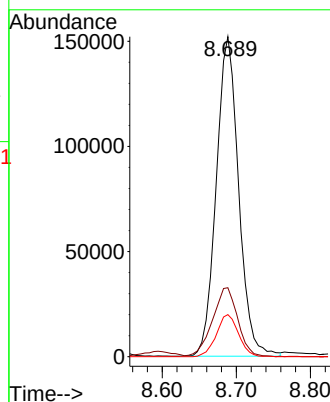
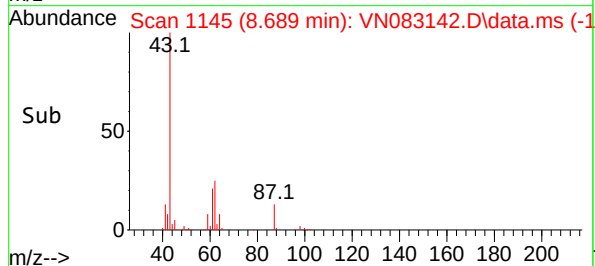
Tgt Ion:	43	Resp:	319540
Ion Ratio	100	Lower	17.8
Upper	26.6	Ratio	13.0
87	24.3	8.2	12.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#44

Trichloroethene

Concen: 47.994 ug/l

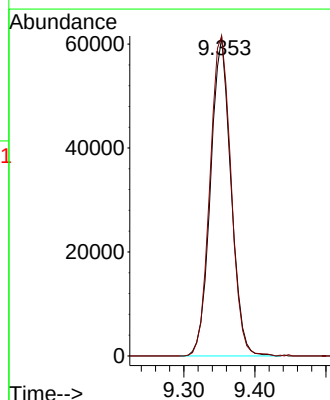
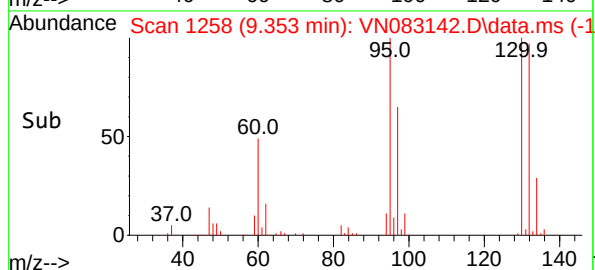
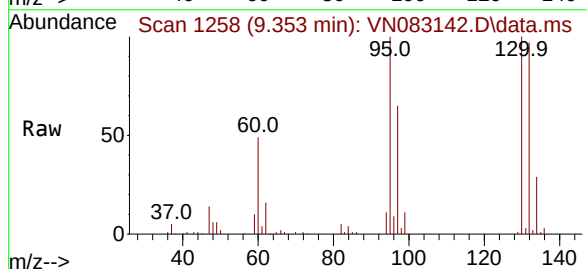
RT: 9.353 min Scan# 1258

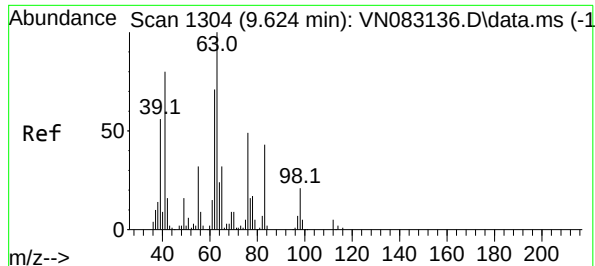
Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Tgt Ion:	130	Resp:	122105
Ion Ratio	Lower	Upper	
130	100		
95	100.4	0.0	197.8





#45

1,2-Dichloropropane

Concen: 48.208 ug/l

RT: 9.624 min Scan# 1304

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724

Tgt Ion: 63 Resp: 12231

Ion Ratio Lower Upper

63 100

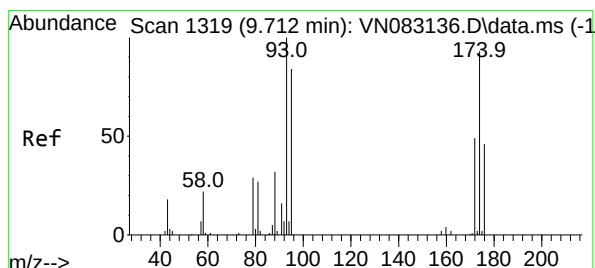
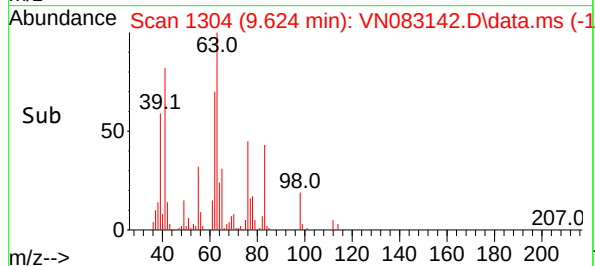
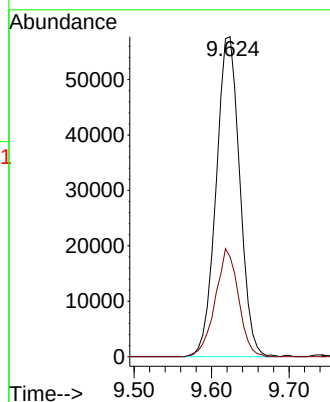
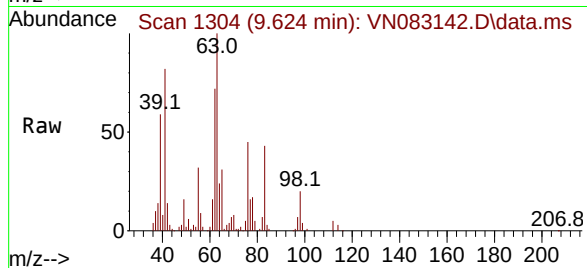
65 31.2 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#46

Dibromomethane

Concen: 47.124 ug/l

RT: 9.712 min Scan# 1319

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

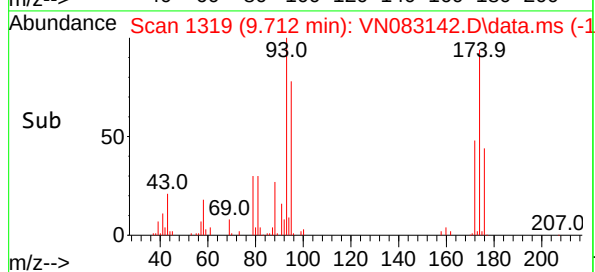
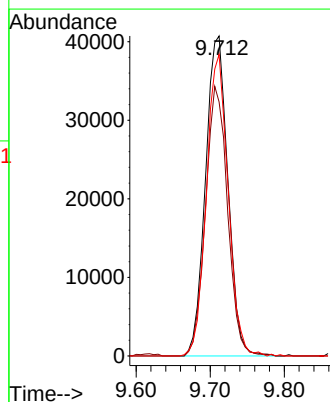
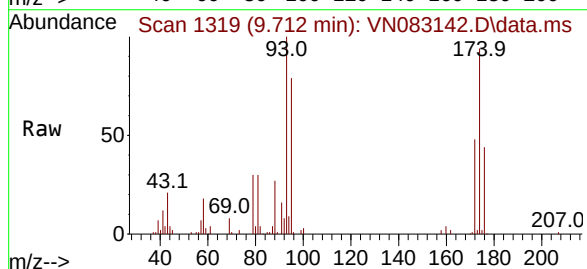
Tgt Ion: 93 Resp: 85581

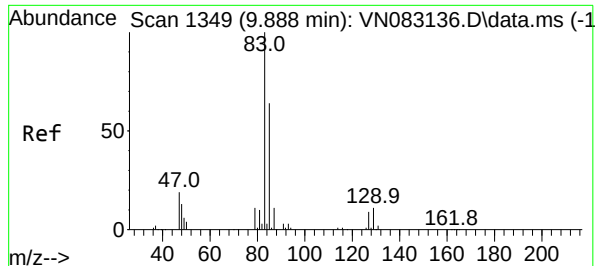
Ion Ratio Lower Upper

93 100

95 83.0 65.8 98.6

174 91.4 71.7 107.5





#47

Bromodichloromethane

Concen: 47.047 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724

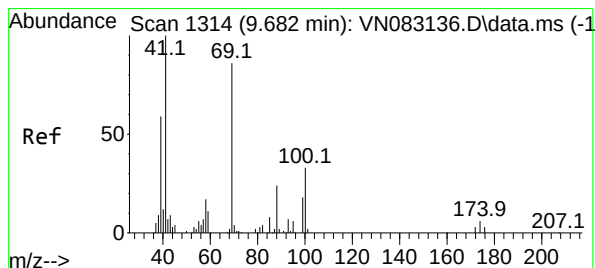
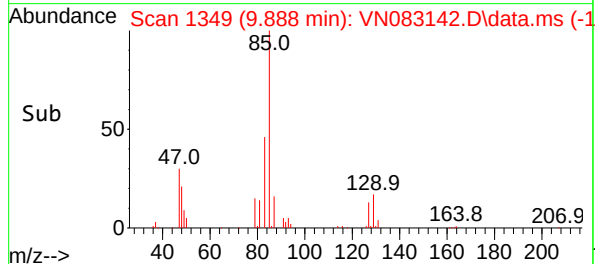
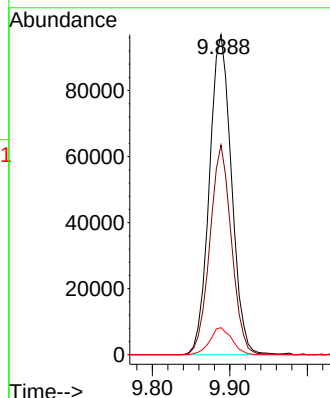
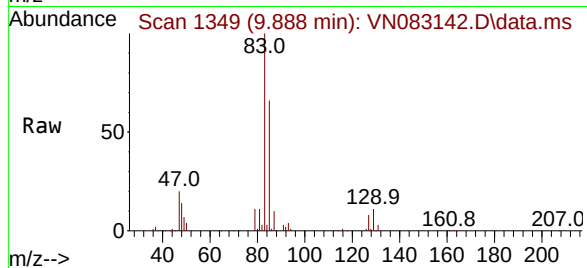
Tgt Ion:	83	Resp:	19184
Ion	Ratio	Lower	Upper
83	100		
85	65.5	51.1	76.7
127	8.5	7.2	10.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#48

Methyl methacrylate

Concen: 44.609 ug/l

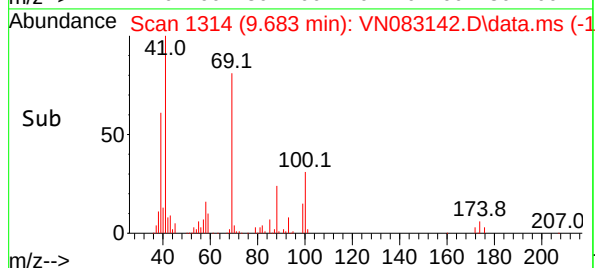
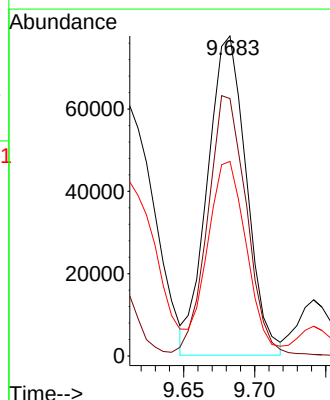
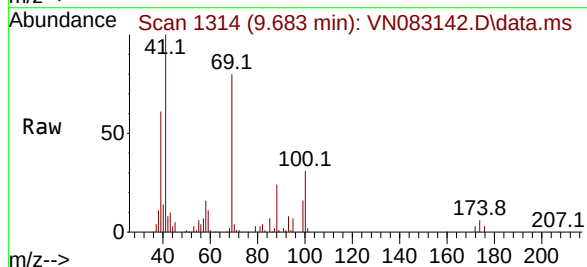
RT: 9.683 min Scan# 1314

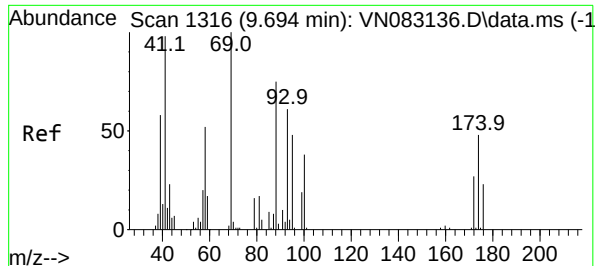
Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Tgt Ion:	41	Resp:	148161
Ion	Ratio	Lower	Upper
41	100		
69	81.0	56.3	84.5
39	60.7	50.3	75.5





#49

1,4-Dioxane

Concen: 885.211 ug/l

RT: 9.694 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724

Tgt Ion: 88 Resp: 5304

Ion Ratio Lower Upper

88 100

43 32.0 27.8 41.8

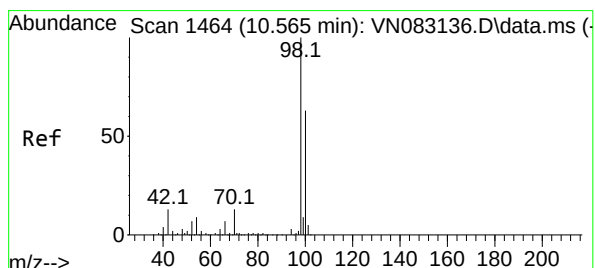
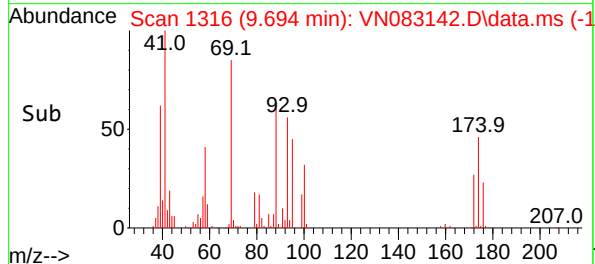
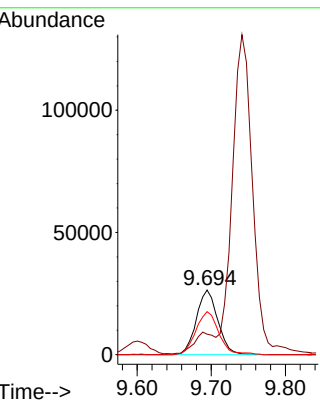
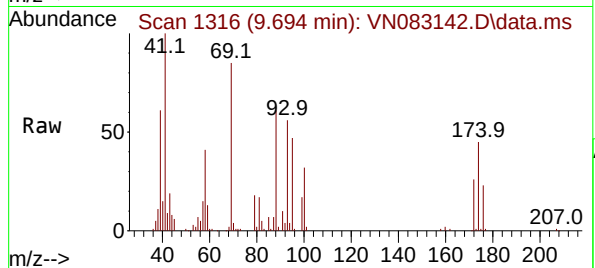
58 71.4 59.4 89.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#50

Toluene-d8

Concen: 52.175 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN083142.D

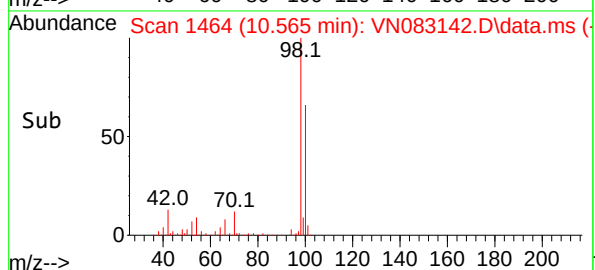
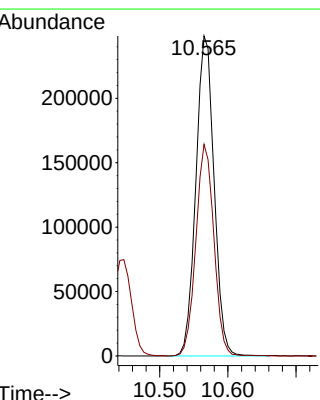
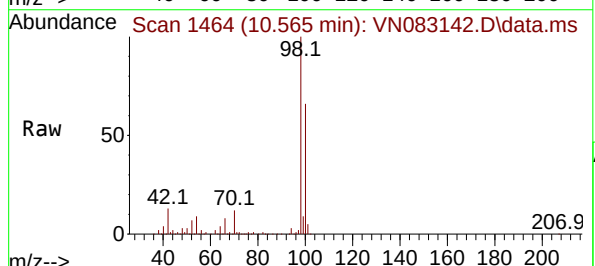
Acq: 07 Aug 2024 14:49

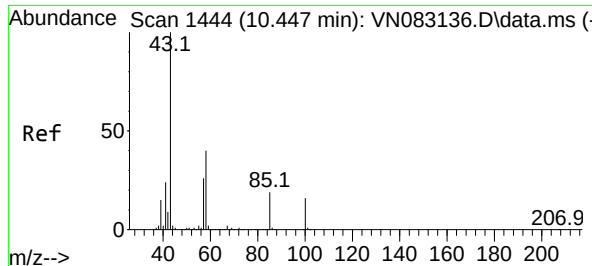
Tgt Ion: 98 Resp: 461627

Ion Ratio Lower Upper

98 100

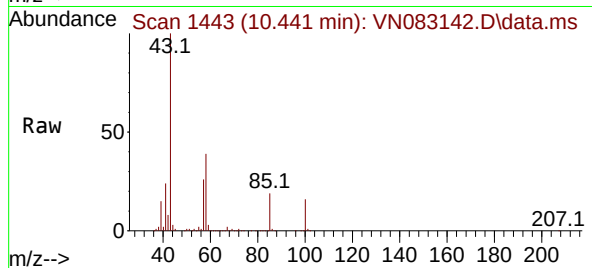
100 65.5 51.5 77.3





#51
4-Methyl-2-Pentanone
Concen: 230.917 ug/l
RT: 10.441 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

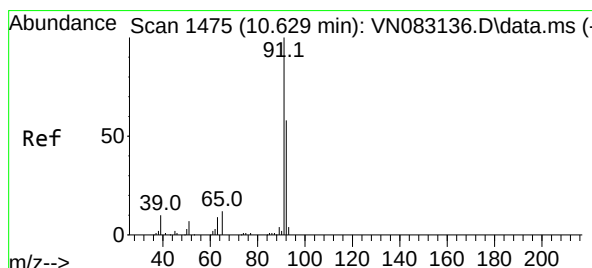
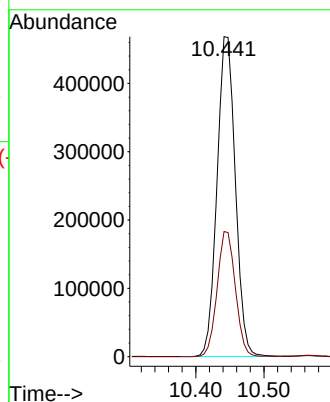
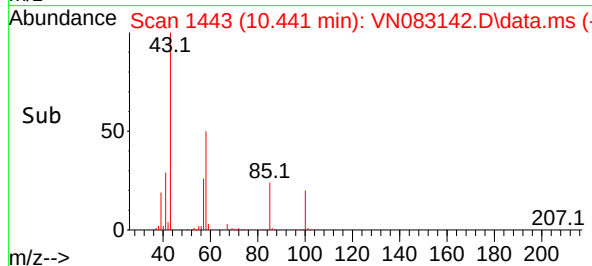
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion: 43 Resp: 877240
Ion Ratio Lower Upper
43 100
58 39.0 28.2 42.4

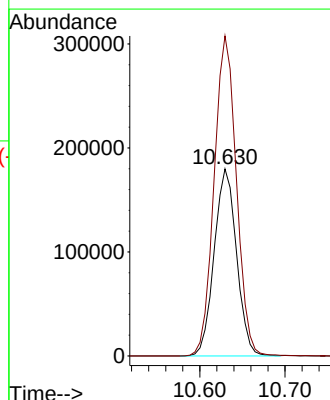
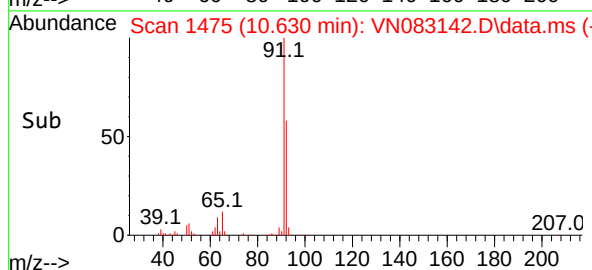
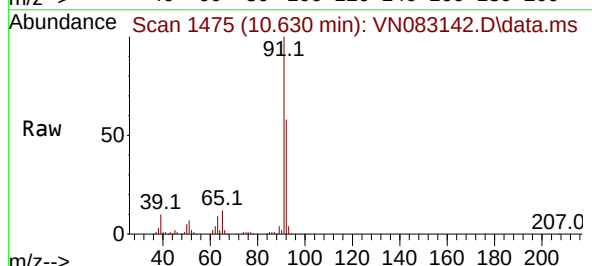
Manual Integrations
APPROVED

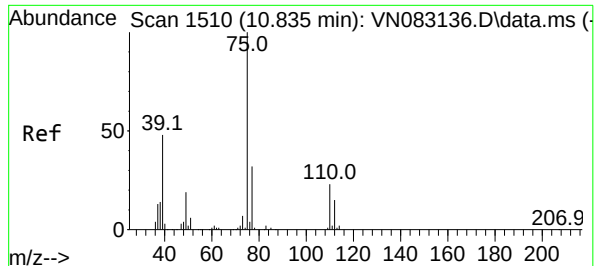
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#52
Toluene
Concen: 48.520 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

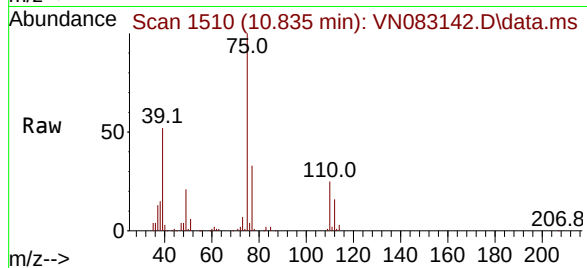
Tgt Ion: 92 Resp: 327682
Ion Ratio Lower Upper
92 100
91 170.9 139.4 209.0





#53
t-1,3-Dichloropropene
Concen: 49.776 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

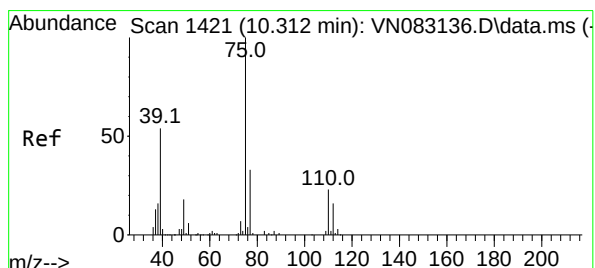
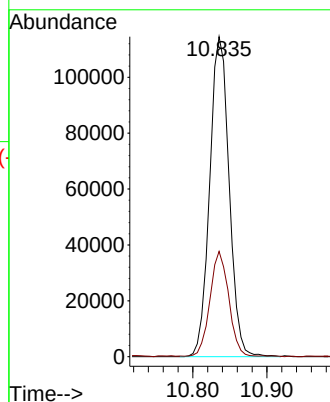
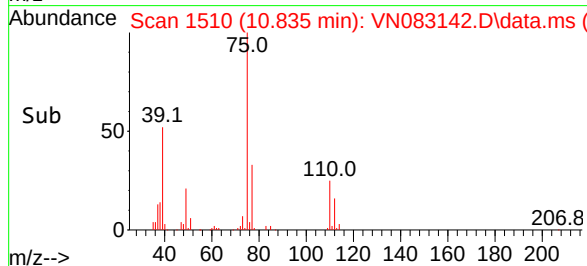
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion: 75 Resp: 20849
Ion Ratio Lower Upper
75 100
77 32.8 25.7 38.5

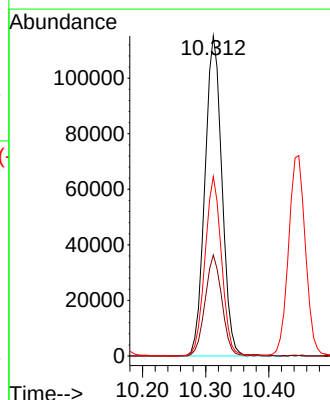
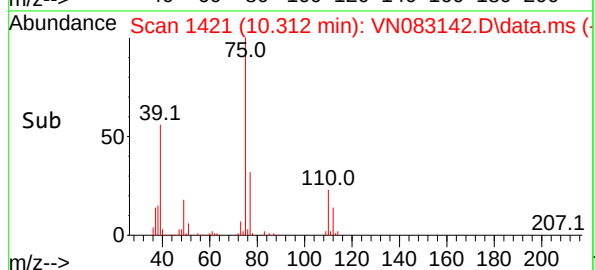
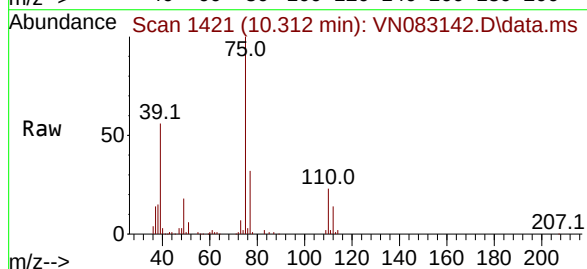
Manual Integrations
APPROVED

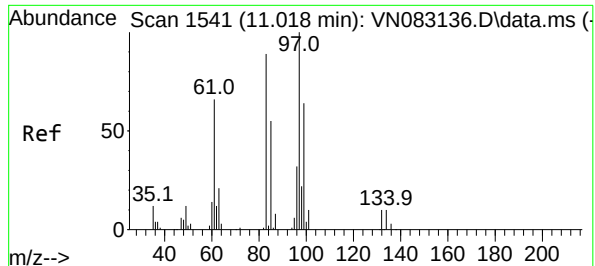
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#54
cis-1,3-Dichloropropene
Concen: 48.487 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

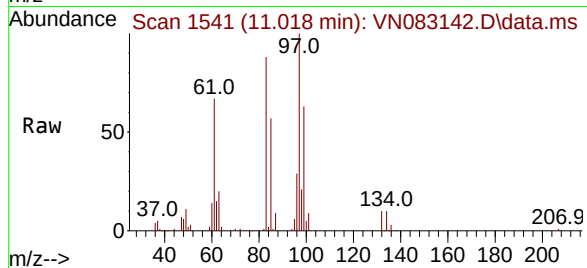
Tgt Ion: 75 Resp: 216020
Ion Ratio Lower Upper
75 100
77 31.6 24.3 36.5
39 56.0 50.5 75.7





#55
1,1,2-Trichloroethane
Concen: 48.351 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

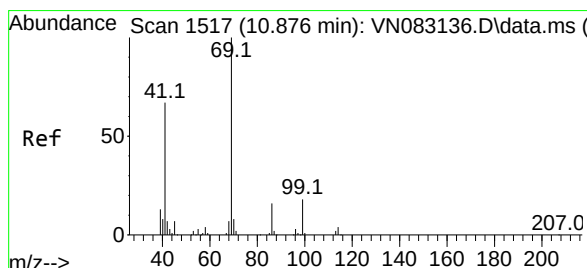
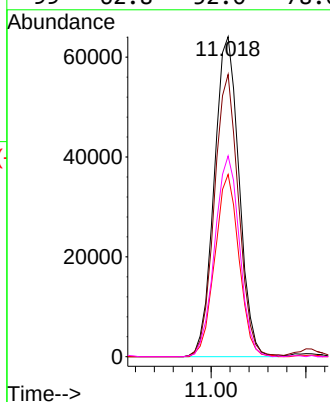
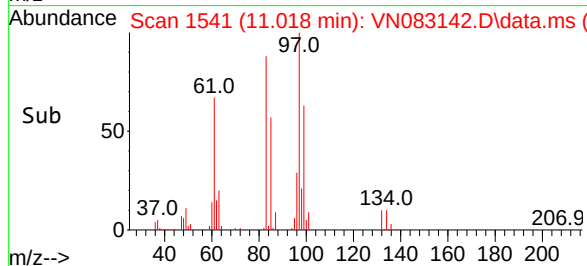
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion: 97 Resp: 117023
Ion Ratio Lower Upper
97 100
83 88.2 71.4 107.0
85 57.0 45.8 68.6
99 62.8 52.0 78.0

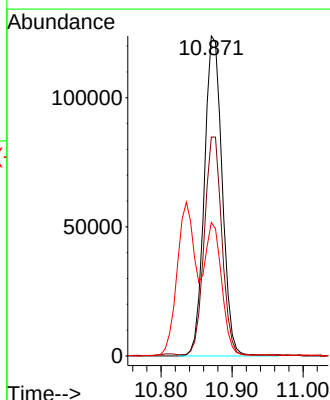
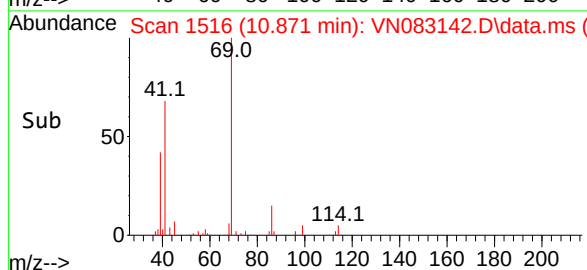
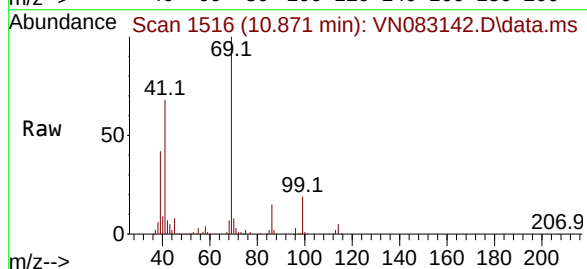
Manual Integrations
APPROVED

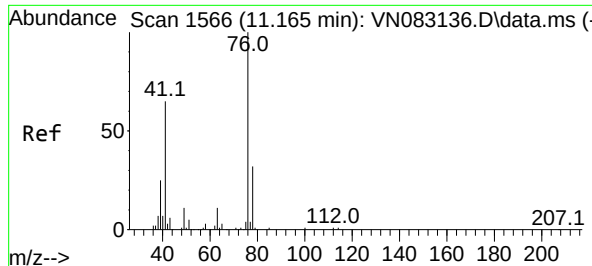
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#56
Ethyl methacrylate
Concen: 47.395 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 69 Resp: 216248
Ion Ratio Lower Upper
69 100
41 67.3 63.4 95.2
39 40.2 37.4 56.0





#57

1,3-Dichloropropane

Concen: 47.391 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724

Tgt Ion: 76 Resp: 20444

Ion Ratio Lower Upper

76 100

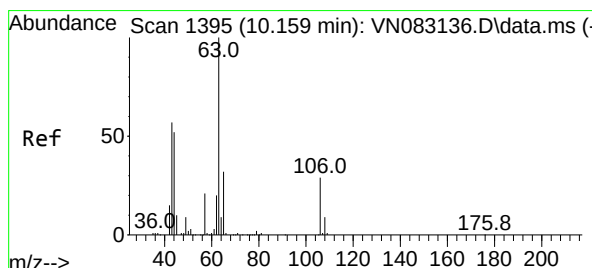
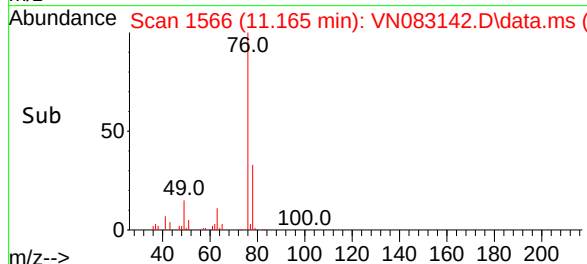
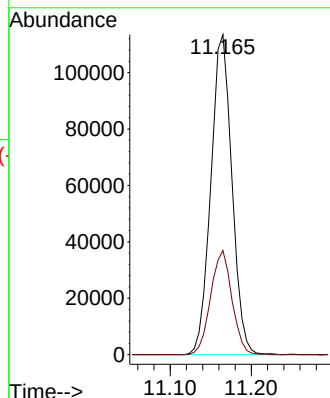
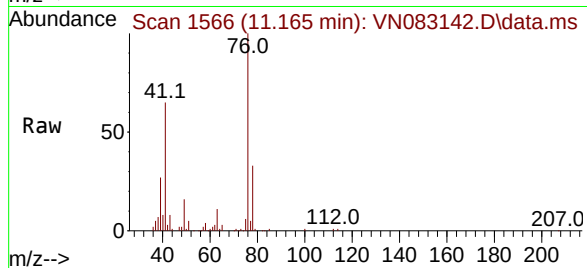
78 32.9 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#58

2-Chloroethyl Vinyl ether

Concen: 244.918 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN083142.D

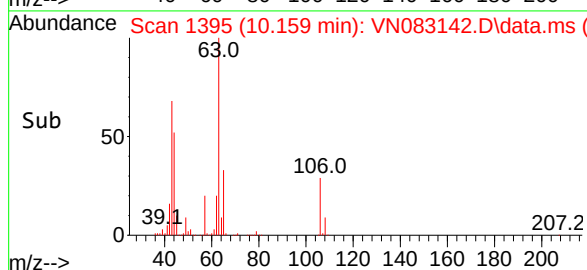
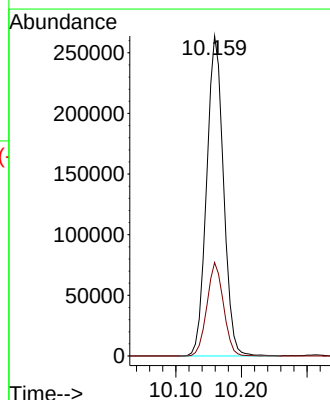
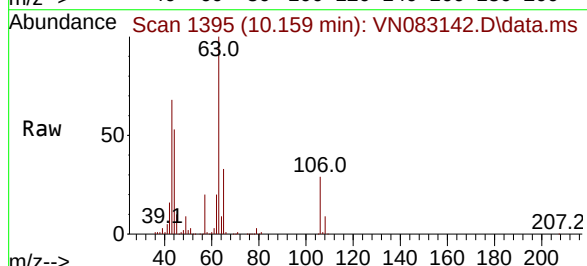
Acq: 07 Aug 2024 14:49

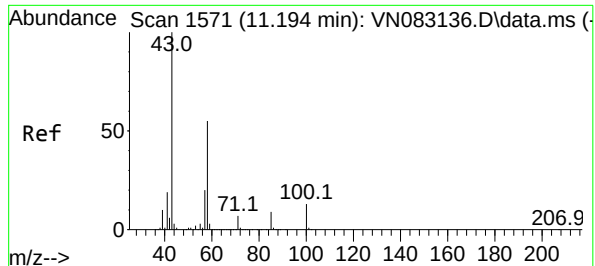
Tgt Ion: 63 Resp: 472357

Ion Ratio Lower Upper

63 100

106 28.6 21.4 32.0





#59

2-Hexanone

Concen: 224.916 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VN083142.D

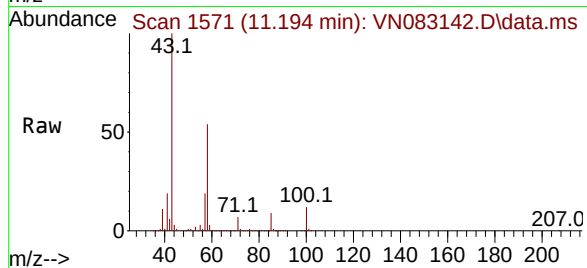
Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724



Tgt Ion: 43 Resp: 661033

Ion Ratio Lower Upper

43 100

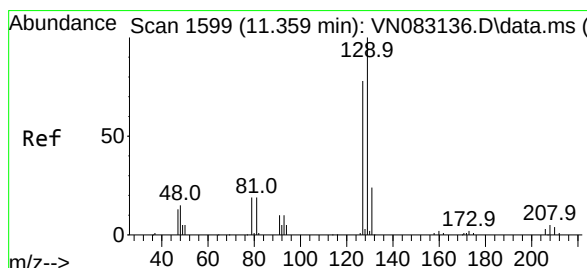
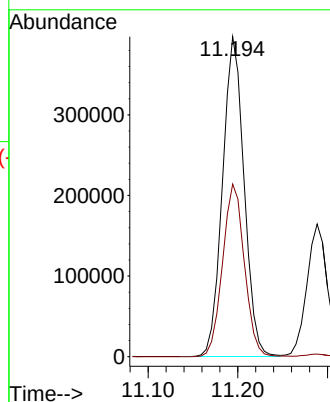
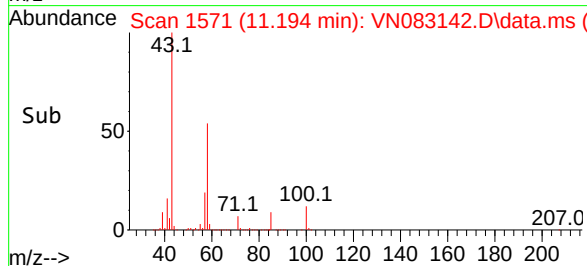
58 54.6 24.6 73.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#60

Dibromochloromethane

Concen: 49.513 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. 0.000 min

Lab File: VN083142.D

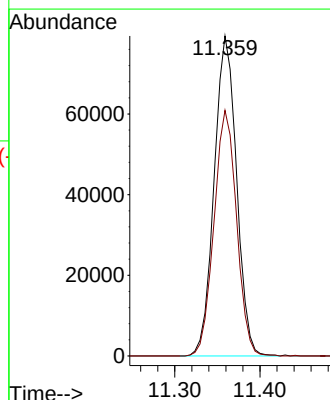
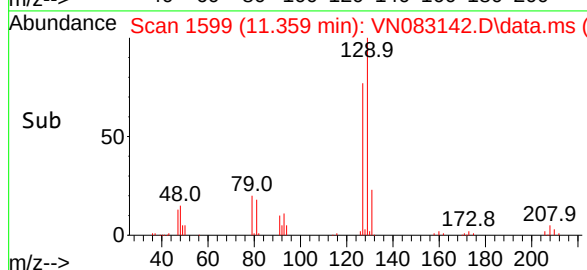
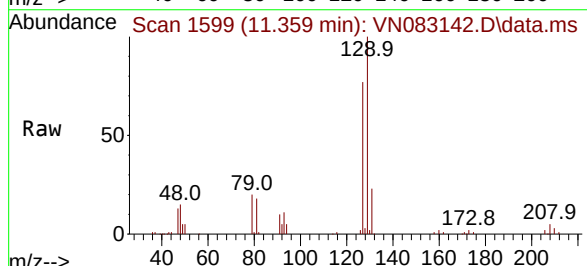
Acq: 07 Aug 2024 14:49

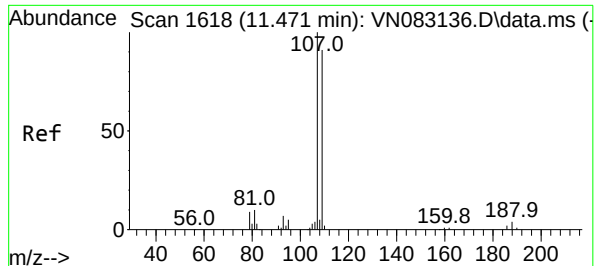
Tgt Ion:129 Resp: 144886

Ion Ratio Lower Upper

129 100

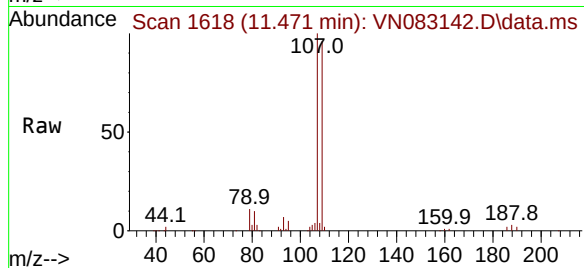
127 77.3 39.2 117.6





#61
1,2-Dibromoethane
Concen: 47.133 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

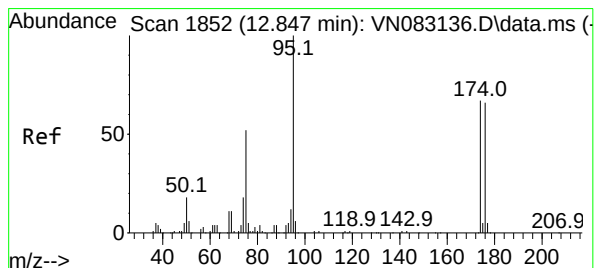
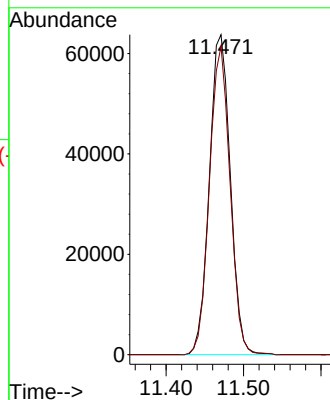
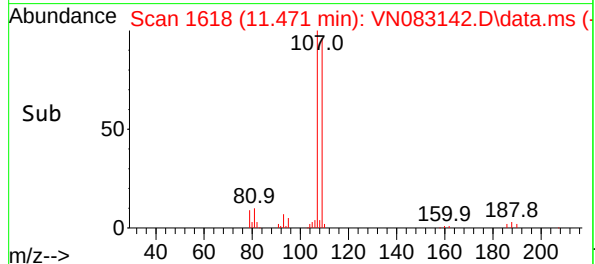
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion:107 Resp: 119834
Ion Ratio Lower Upper
107 100
109 94.5 73.7 110.5

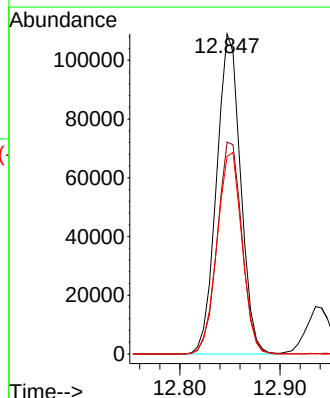
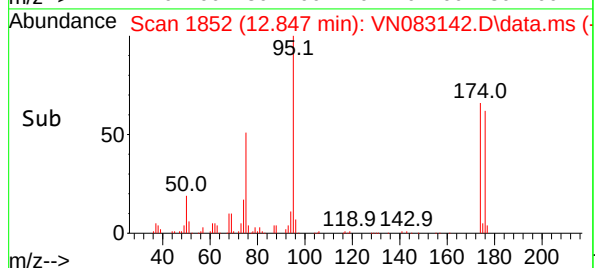
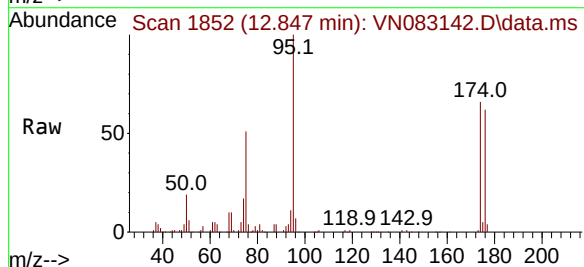
Manual Integrations
APPROVED

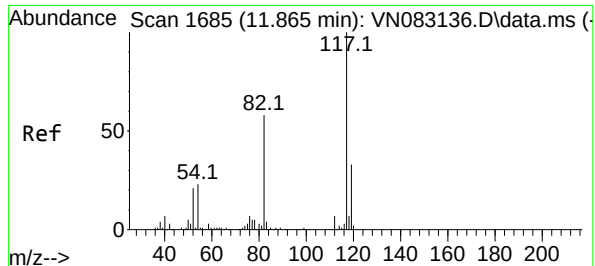
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#62
4-Bromofluorobenzene
Concen: 52.574 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

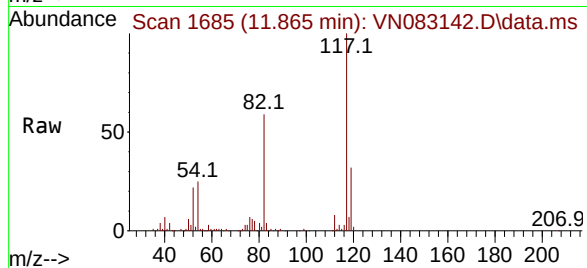
Tgt Ion: 95 Resp: 181344
Ion Ratio Lower Upper
95 100
174 68.0 0.0 159.2
176 65.5 0.0 147.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

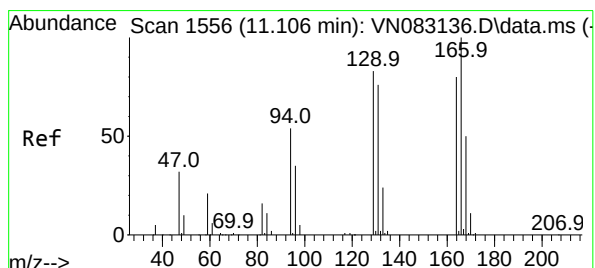
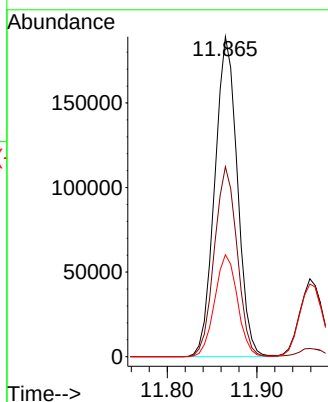
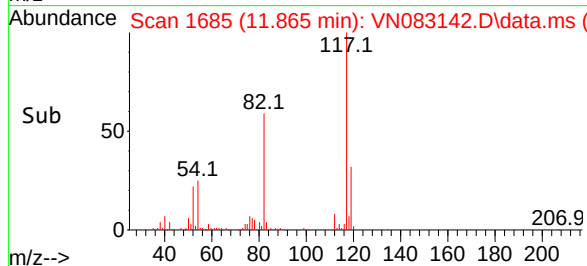
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



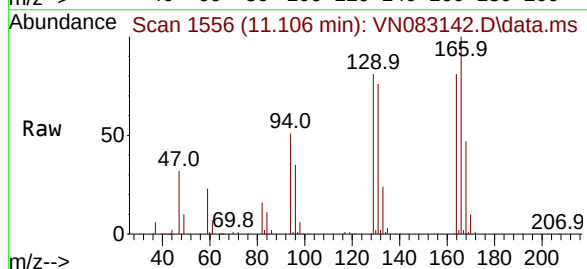
Tgt Ion:117 Resp: 33095
Ion Ratio Lower Upper
117 100
82 59.4 47.5 71.3
119 31.9 25.6 38.4

Manual Integrations
APPROVED

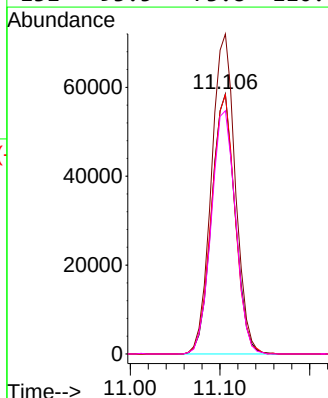
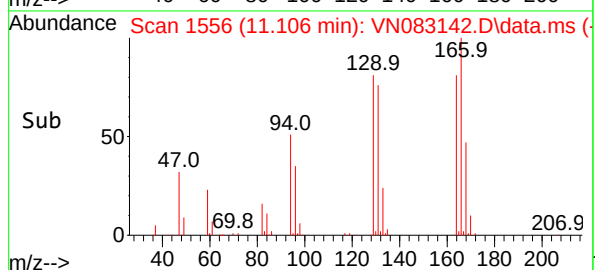
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

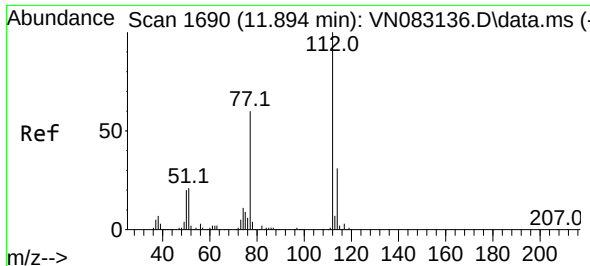


#64
Tetrachloroethene
Concen: 48.175 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49



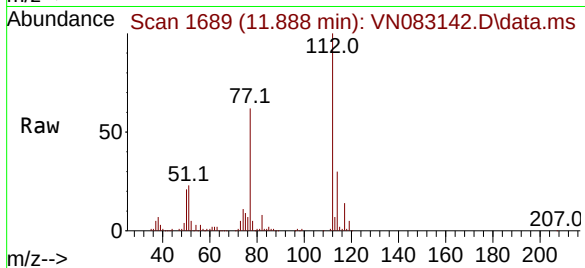
Tgt Ion:164 Resp: 105591
Ion Ratio Lower Upper
164 100
166 123.0 101.4 152.0
129 99.7 75.7 113.5
131 93.5 73.8 110.6





#65
Chlorobenzene
Concen: 47.522 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

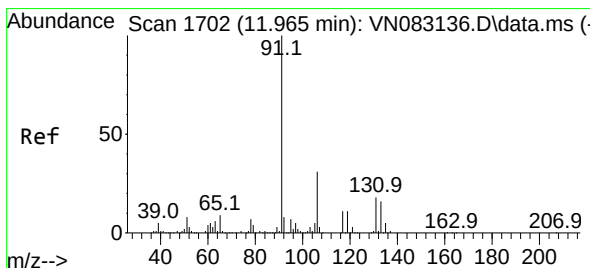
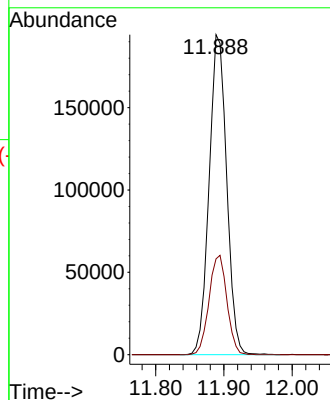
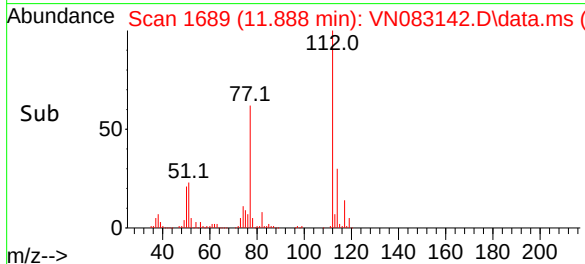
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion:112 Resp: 347560
Ion Ratio Lower Upper
112 100
114 29.9 26.2 39.2

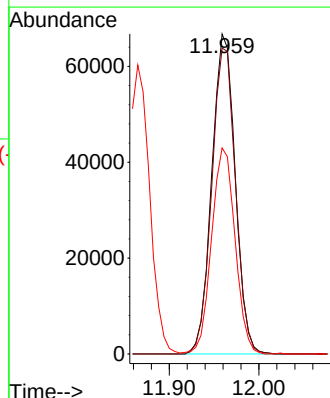
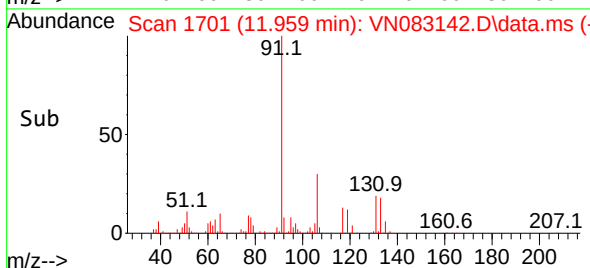
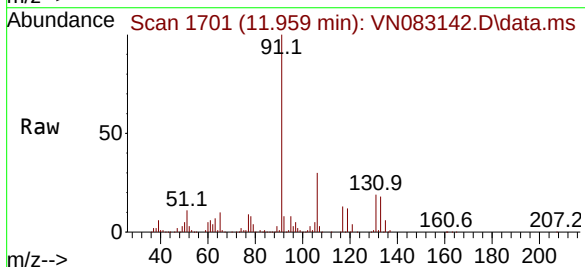
Manual Integrations
APPROVED

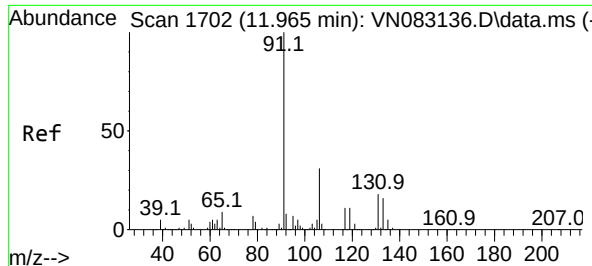
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#66
1,1,1,2-Tetrachloroethane
Concen: 46.843 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:131 Resp: 120826
Ion Ratio Lower Upper
131 100
133 97.1 47.3 142.0
119 64.8 32.5 97.4





#67

Ethyl Benzene

Concen: 47.764 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724

Tgt Ion: 91 Resp: 64082

Ion Ratio Lower Upper

91 100

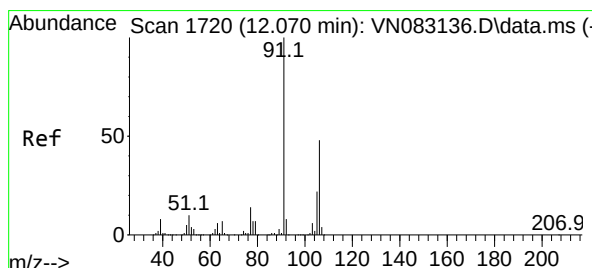
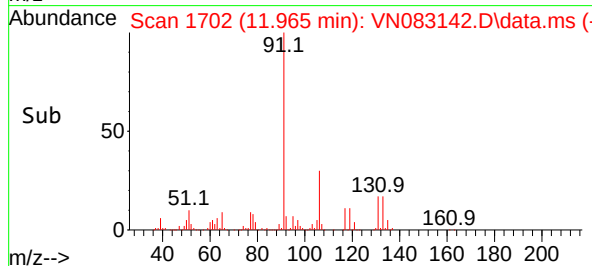
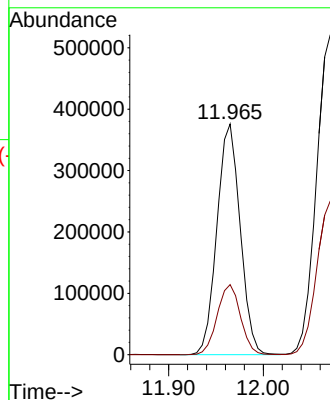
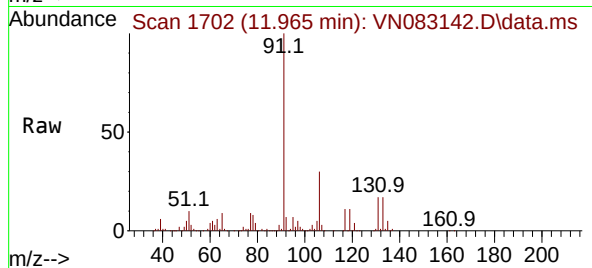
106 30.4 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#68

m/p-Xylenes

Concen: 96.434 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.000 min

Lab File: VN083142.D

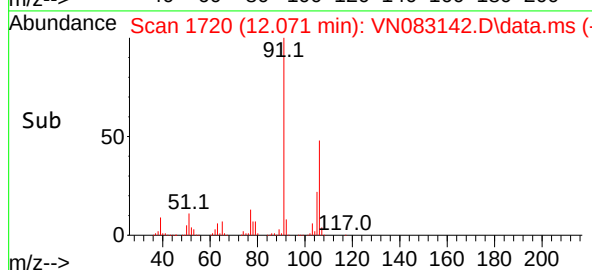
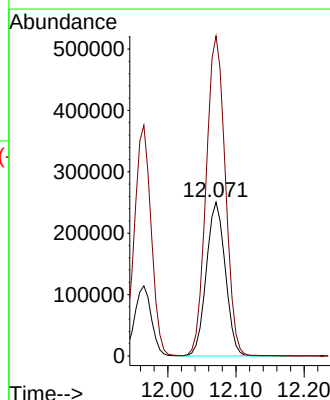
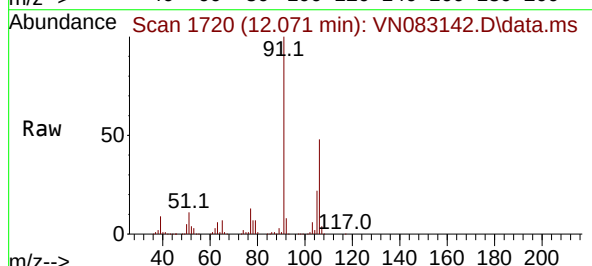
Acq: 07 Aug 2024 14:49

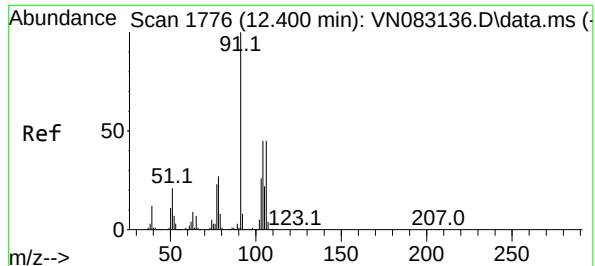
Tgt Ion:106 Resp: 484653

Ion Ratio Lower Upper

106 100

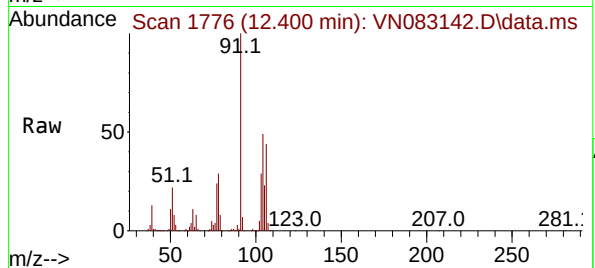
91 210.2 166.1 249.1





#69
o-Xylene
Concen: 46.662 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

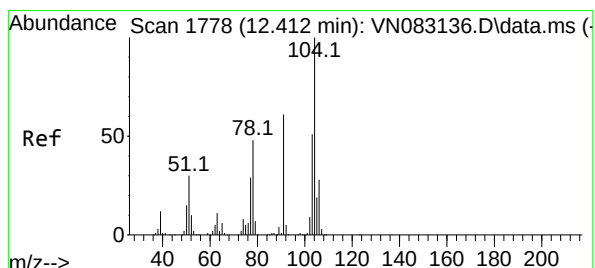
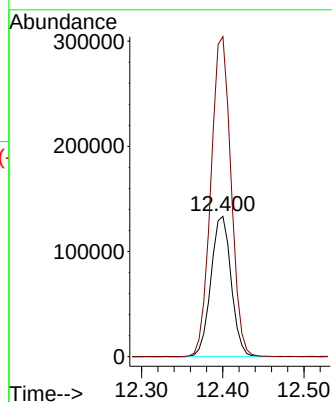
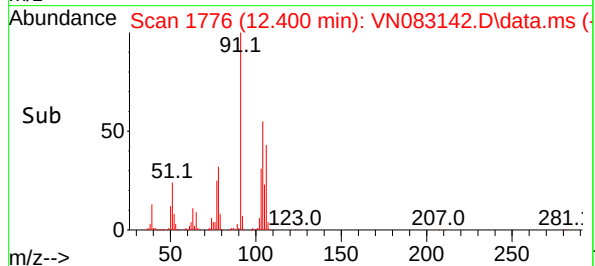
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion:106 Resp: 231292
Ion Ratio Lower Upper
106 100
91 227.0 111.3 333.9

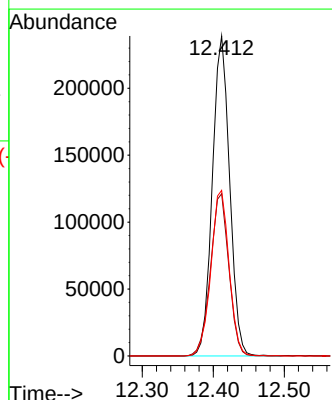
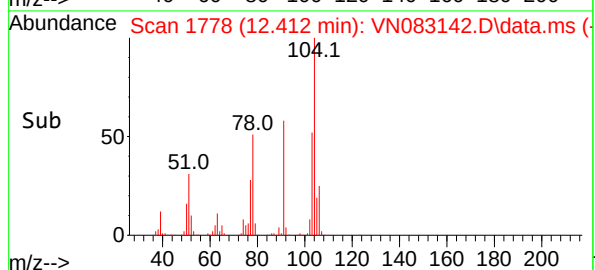
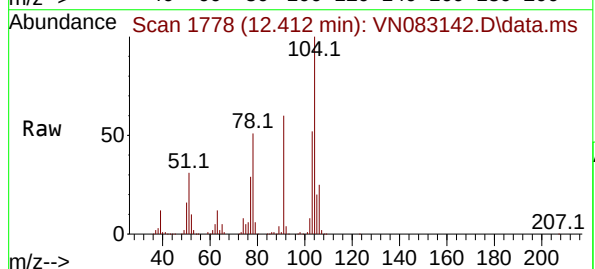
Manual Integrations
APPROVED

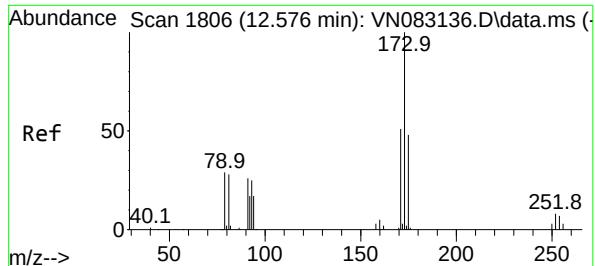
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#70
Styrene
Concen: 48.487 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

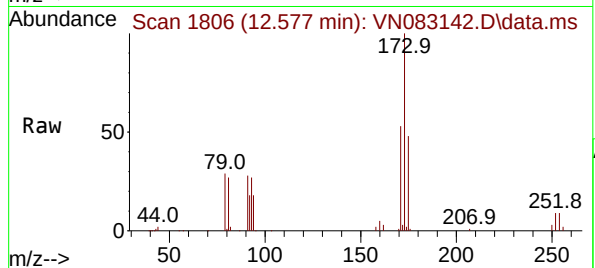
Tgt Ion:104 Resp: 403657
Ion Ratio Lower Upper
104 100
78 53.9 41.6 62.4
103 54.6 44.0 66.0





#71
Bromoform
Concen: 47.797 ug/l
RT: 12.577 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

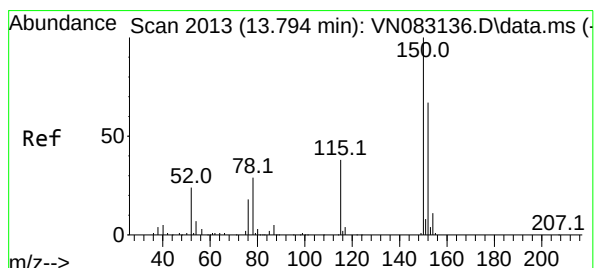
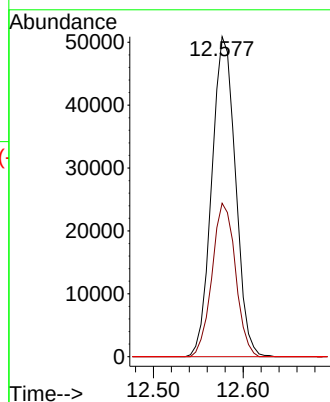
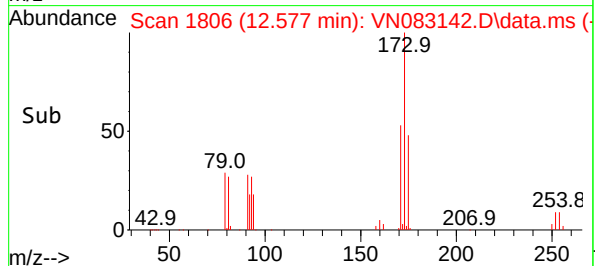
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion:173 Resp: 9339
Ion Ratio Lower Upper
173 100
175 47.4 24.0 72.0
254 0.0 0.0 0.0

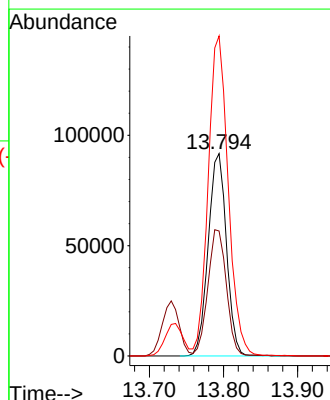
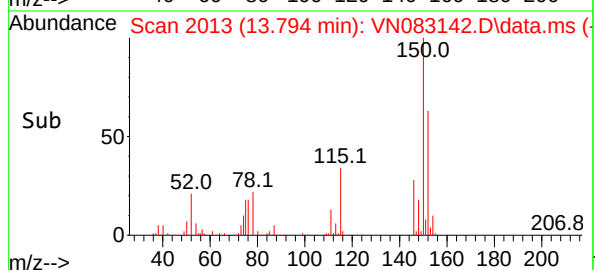
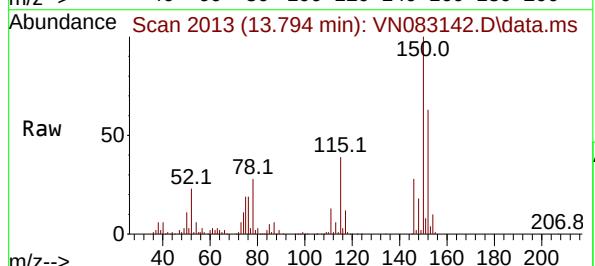
Manual Integrations
APPROVED

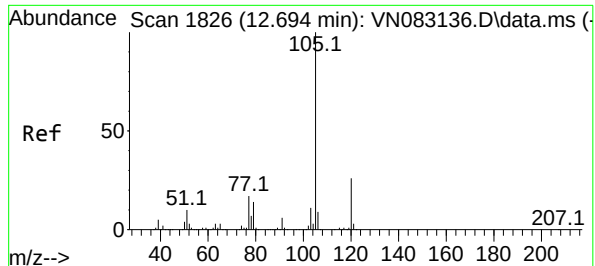
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

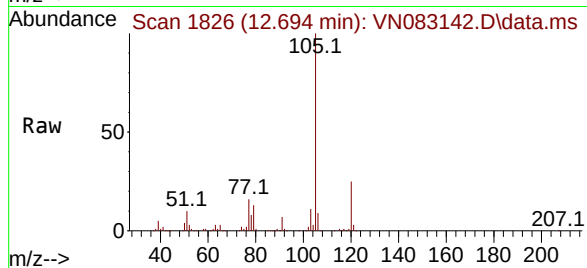
Tgt Ion:152 Resp: 157193
Ion Ratio Lower Upper
152 100
115 63.3 30.6 91.6
150 172.2 0.0 348.6





#73
Isopropylbenzene
Concen: 46.893 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

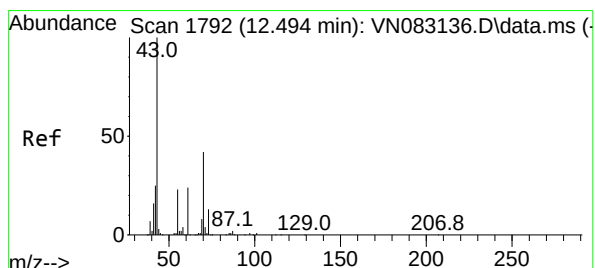
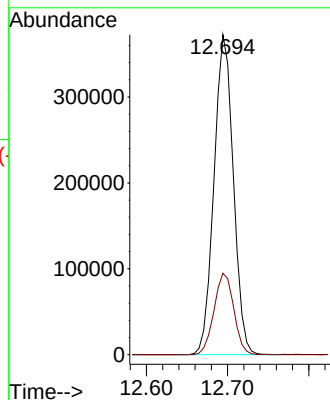
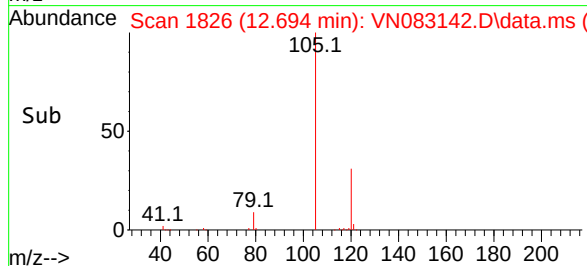
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion:105 Resp: 616544
Ion Ratio Lower Upper
105 100
120 26.0 12.9 38.6

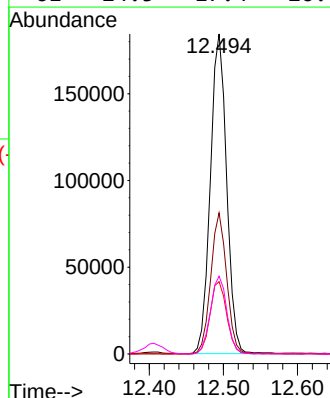
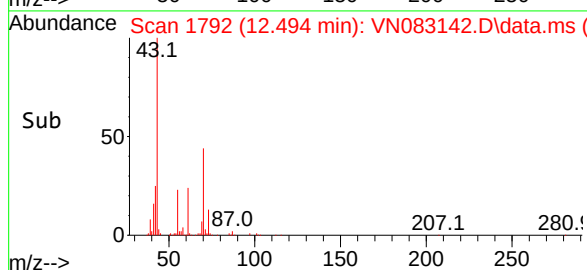
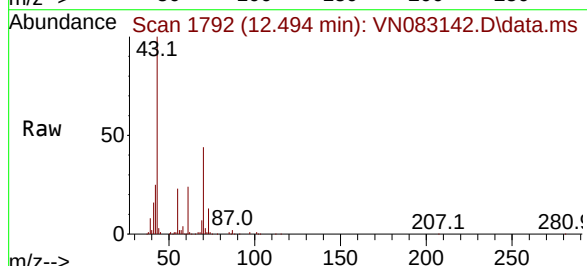
Manual Integrations
APPROVED

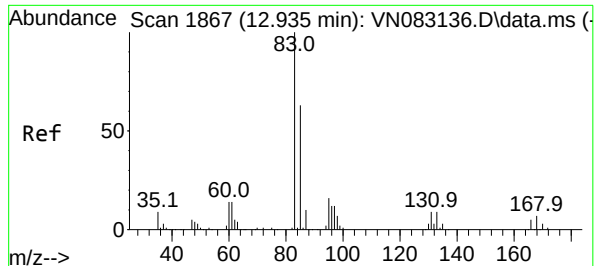
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#74
N-ethyl acetate
Concen: 43.748 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

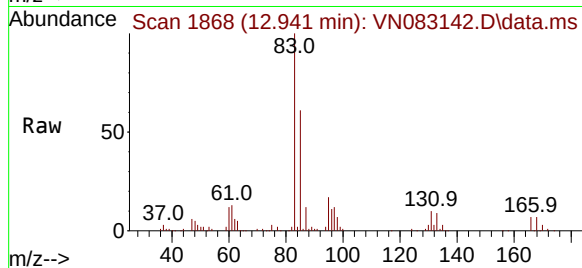
Tgt Ion: 43 Resp: 281352
Ion Ratio Lower Upper
43 100
70 43.1 29.8 44.6
55 23.3 18.7 28.1
61 24.5 17.4 26.0





#75
1,1,2,2-Tetrachloroethane
Concen: 43.016 ug/l
RT: 12.941 min Scan# 1868
Delta R.T. 0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

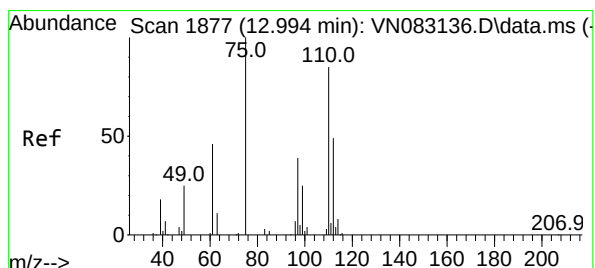
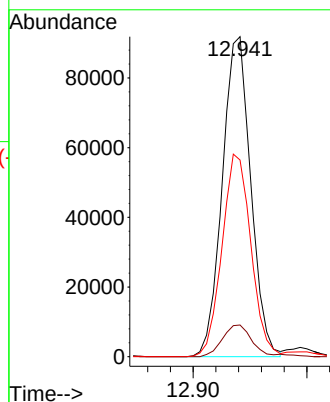
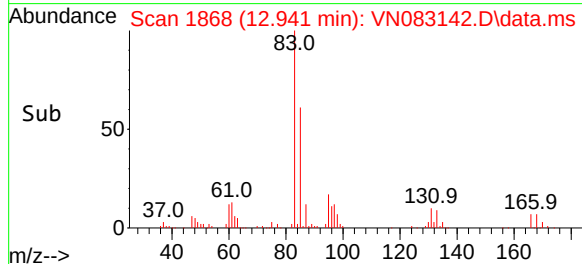
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion: 83 Resp: 159962
Ion Ratio Lower Upper
83 100
131 10.6 5.0 14.9
85 64.5 31.9 95.7

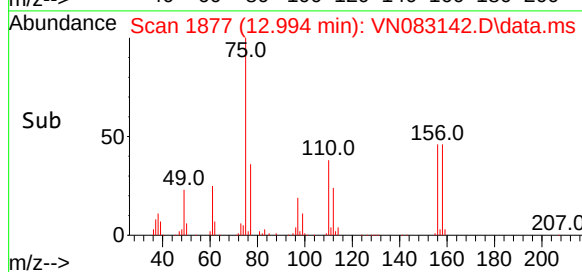
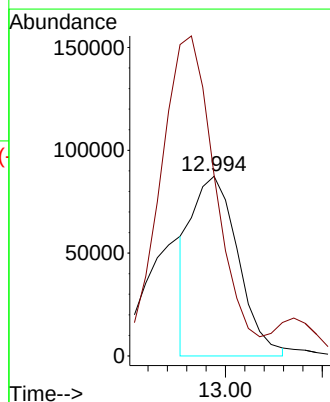
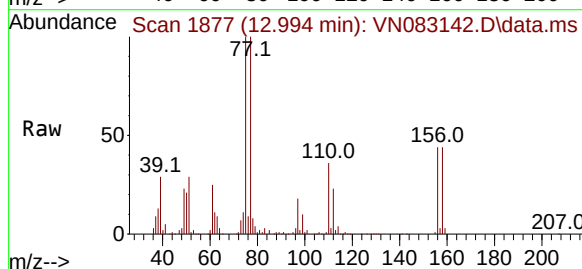
Manual Integrations
APPROVED

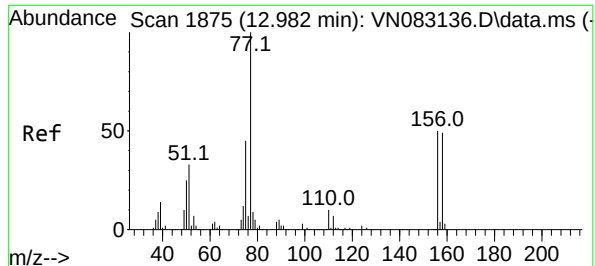
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#76
1,2,3-Trichloropropane
Concen: 42.119 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

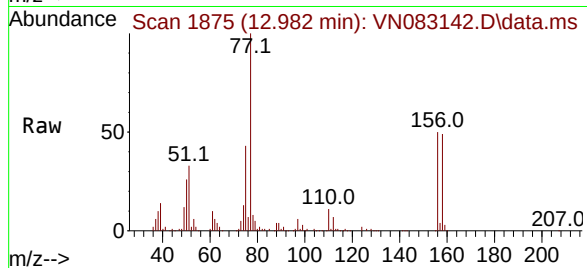
Tgt Ion: 75 Resp: 145309
Ion Ratio Lower Upper
75 100
77 214.8 110.9 332.6





#77
Bromobenzene
Concen: 46.649 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

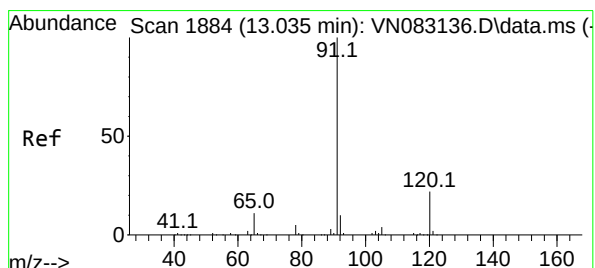
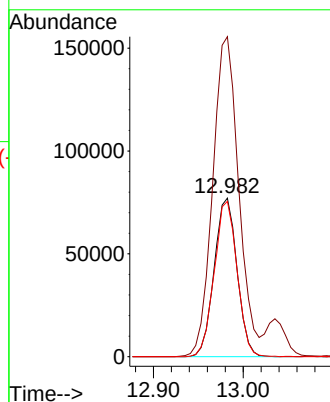
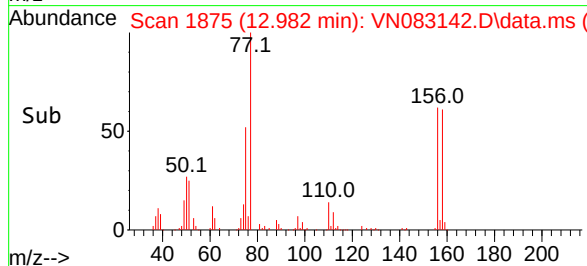
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion:156 Resp: 136249
Ion Ratio Lower Upper
156 100
77 229.1 111.3 333.8
158 98.0 48.3 144.9

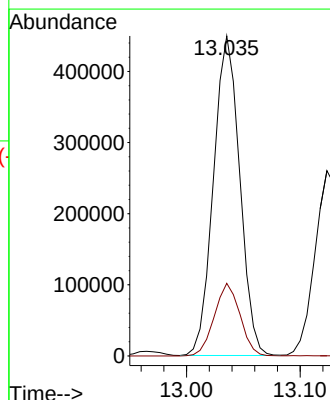
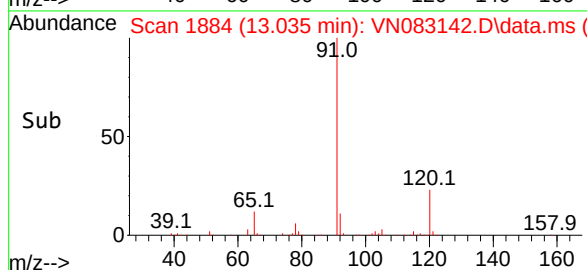
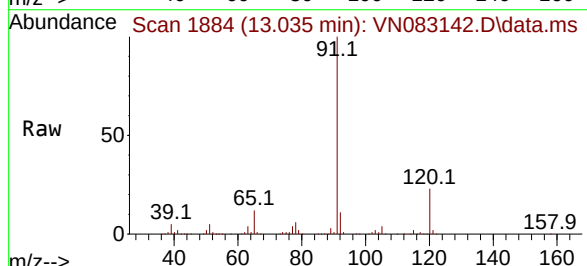
Manual Integrations
APPROVED

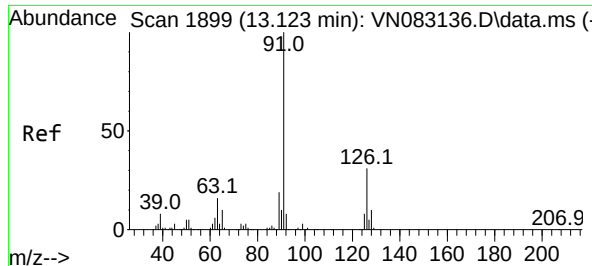
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#78
n-propylbenzene
Concen: 47.678 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

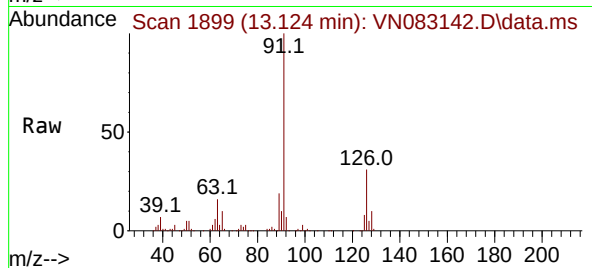
Tgt Ion: 91 Resp: 721825
Ion Ratio Lower Upper
91 100
120 22.2 10.9 32.9





#79
2-Chlorotoluene
Concen: 46.398 ug/l
RT: 13.124 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

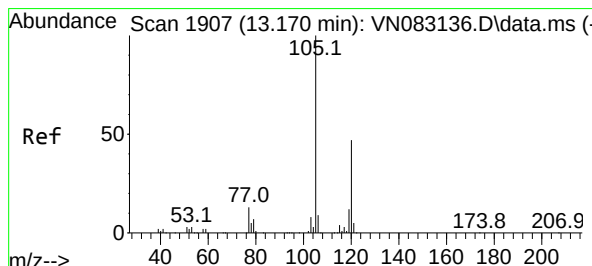
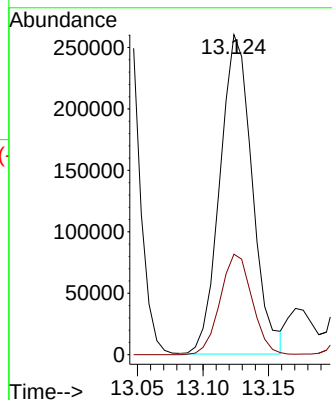
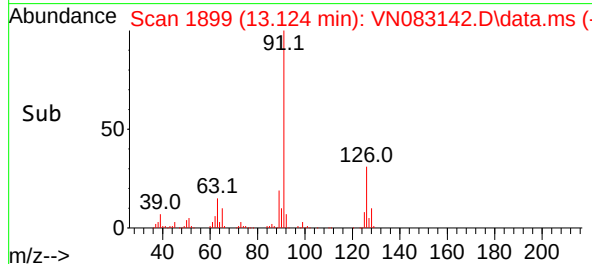
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion: 91 Resp: 44535
Ion Ratio Lower Upper
91 100
126 31.1 16.2 48.6

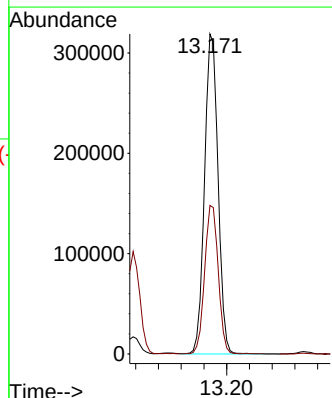
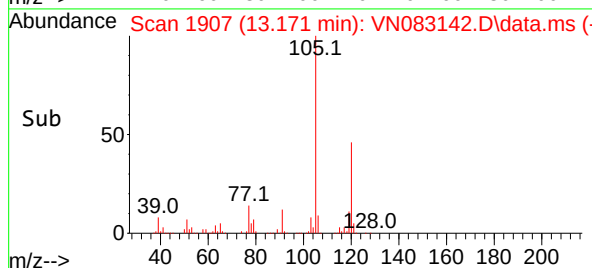
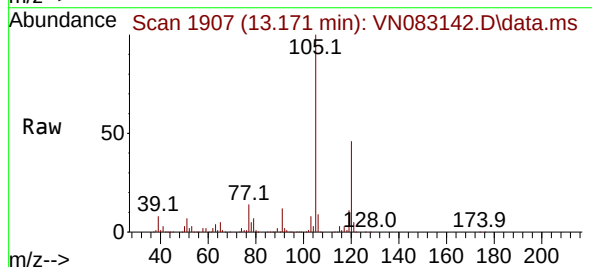
Manual Integrations
APPROVED

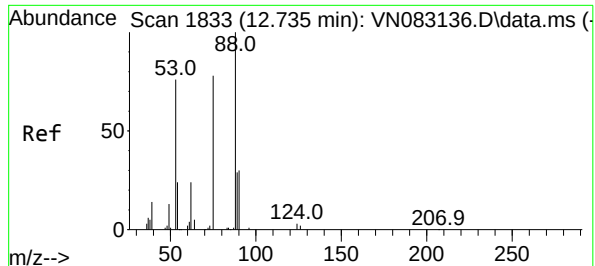
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#80
1,3,5-Trimethylbenzene
Concen: 47.673 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

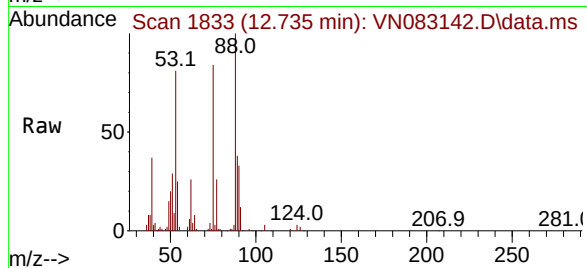
Tgt Ion:105 Resp: 524769
Ion Ratio Lower Upper
105 100
120 46.9 24.3 72.8





#81
trans-1,4-Dichloro-2-butene
Concen: 47.070 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

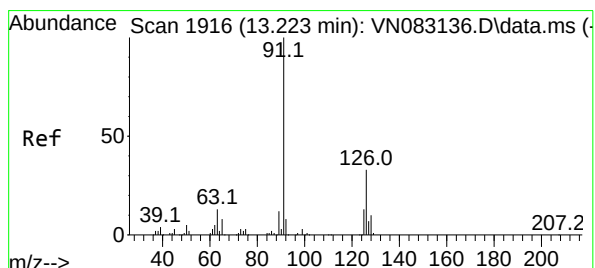
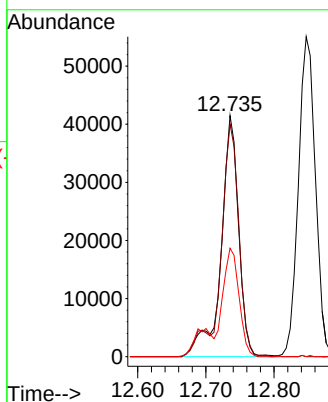
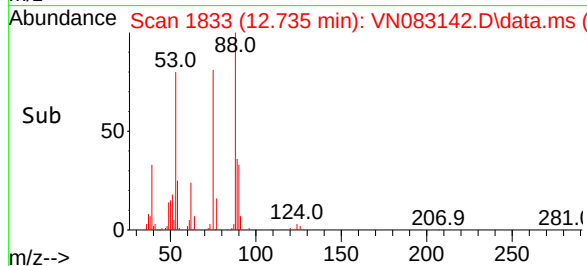
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion: 75 Resp: 74654
Ion Ratio Lower Upper
75 100
53 89.6 88.4 132.6
89 41.1 36.3 54.5

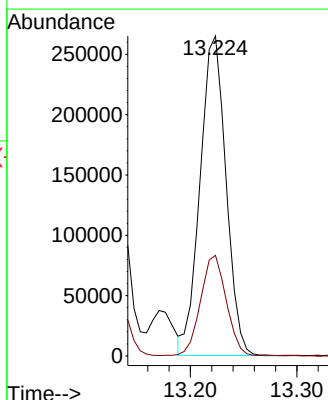
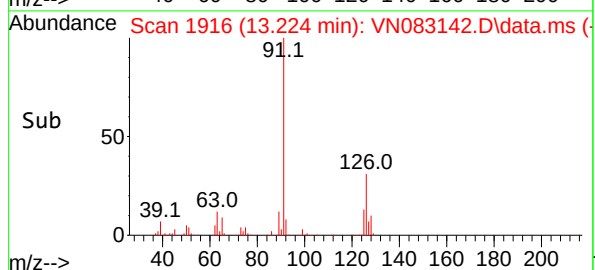
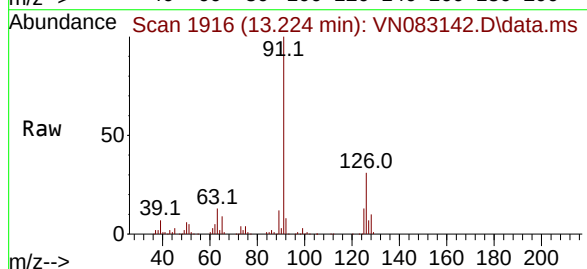
Manual Integrations
APPROVED

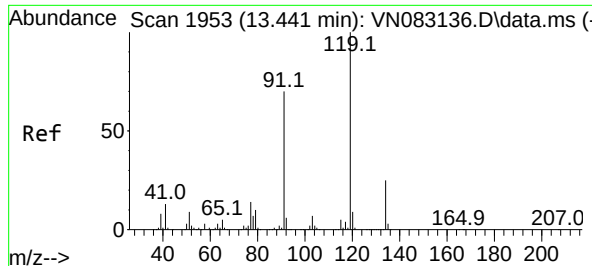
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#82
4-Chlorotoluene
Concen: 46.512 ug/l
RT: 13.224 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

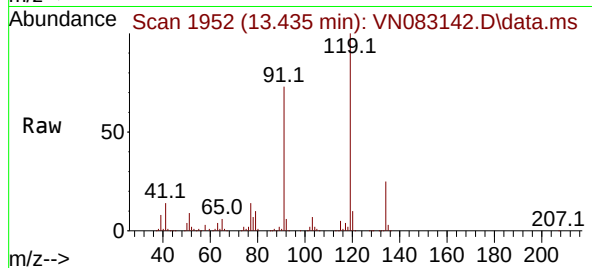
Tgt Ion: 91 Resp: 447810
Ion Ratio Lower Upper
91 100
126 31.2 16.2 48.6





#83
tert-Butylbenzene
Concen: 46.173 ug/l
RT: 13.435 min Scan# 1953
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

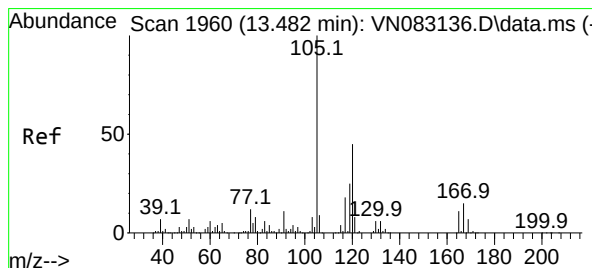
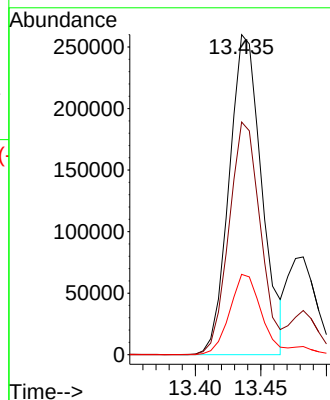
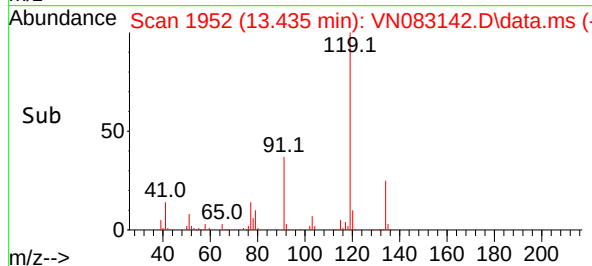
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion:119 Resp: 450104
Ion Ratio Lower Upper
119 100
91 70.4 35.0 105.1
134 24.4 13.3 39.8

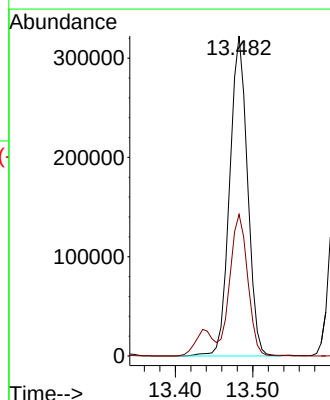
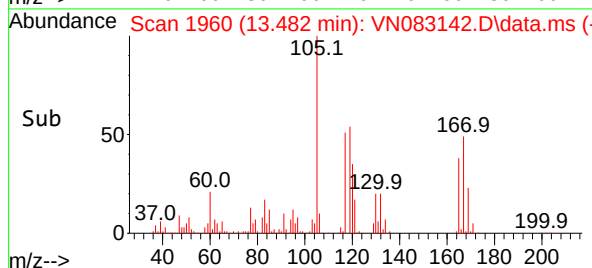
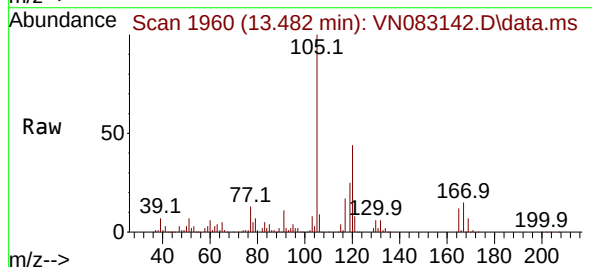
Manual Integrations
APPROVED

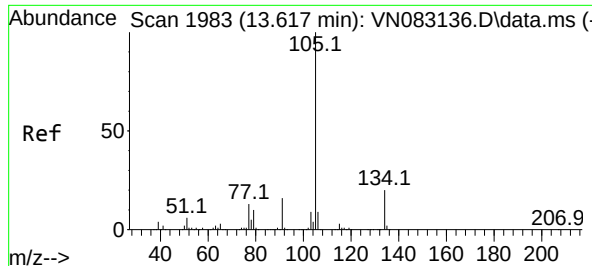
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#84
1,2,4-Trimethylbenzene
Concen: 46.493 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

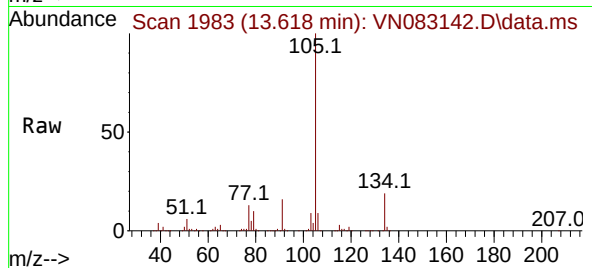
Tgt Ion:105 Resp: 515759
Ion Ratio Lower Upper
105 100
120 44.4 21.9 65.8





#85
sec-Butylbenzene
Concen: 47.018 ug/l
RT: 13.618 min Scan# 1983
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

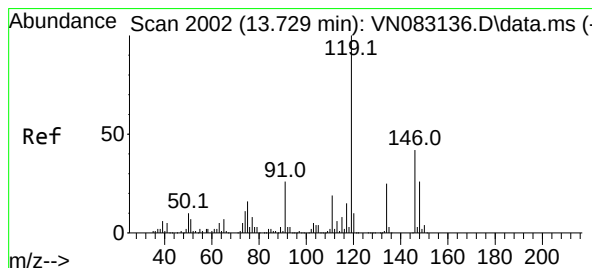
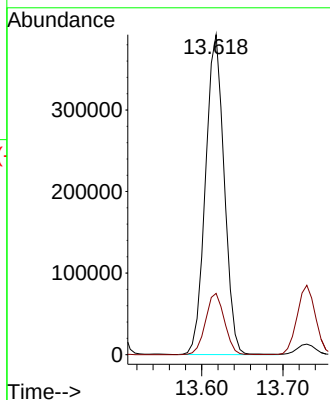
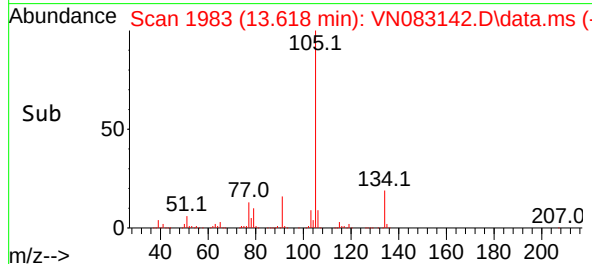
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion:105 Resp: 625404
Ion Ratio Lower Upper
105 100
134 19.5 9.8 29.3

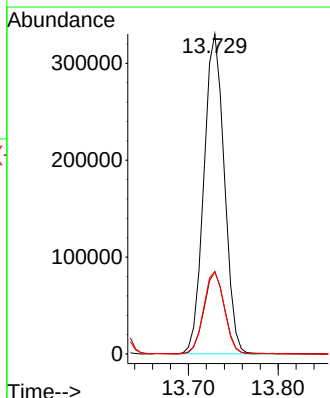
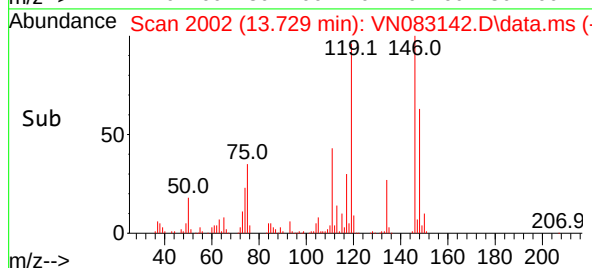
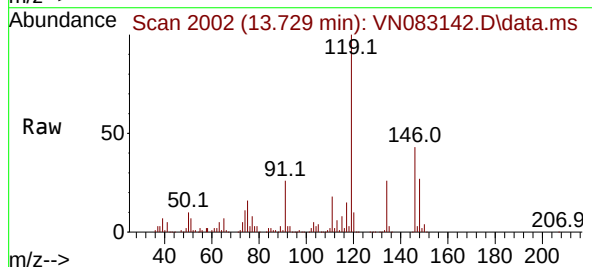
Manual Integrations
APPROVED

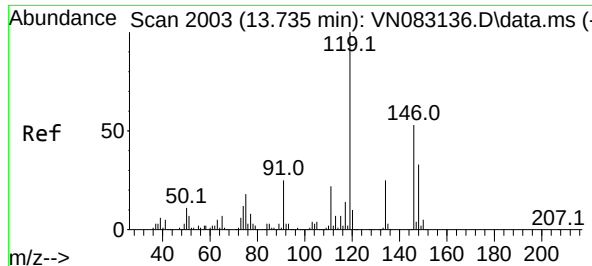
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#86
p-Isopropyltoluene
Concen: 47.566 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:119 Resp: 522411
Ion Ratio Lower Upper
119 100
134 25.6 13.0 39.0
91 25.9 12.3 36.9





#87

1,3-Dichlorobenzene

Concen: 45.959 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724

Tgt Ion:146 Resp: 252579

Ion Ratio Lower Upper

146 100

111 43.4 20.6 61.9

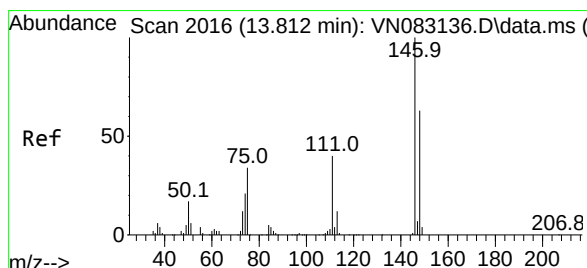
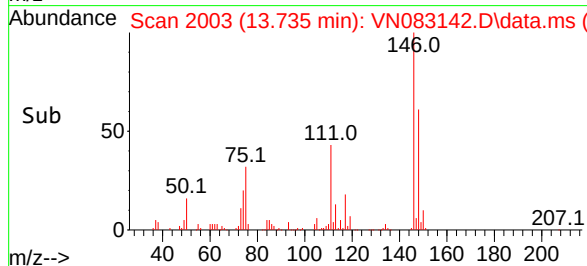
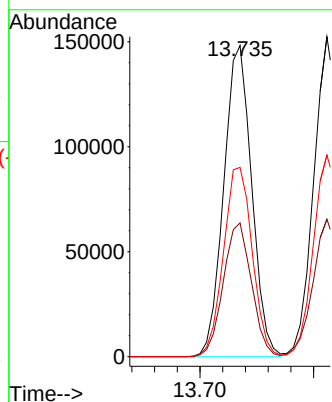
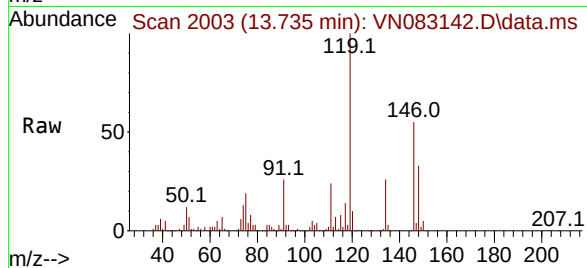
148 62.8 31.8 95.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#88

1,4-Dichlorobenzene

Concen: 45.499 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

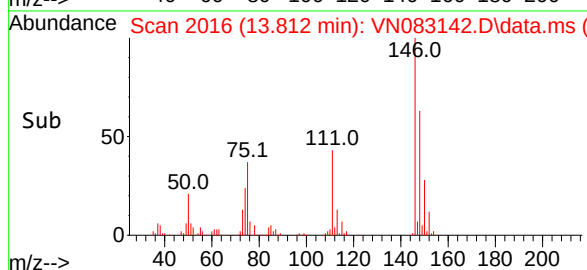
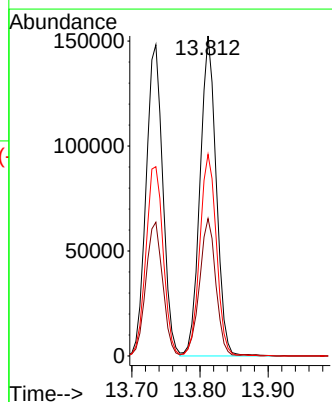
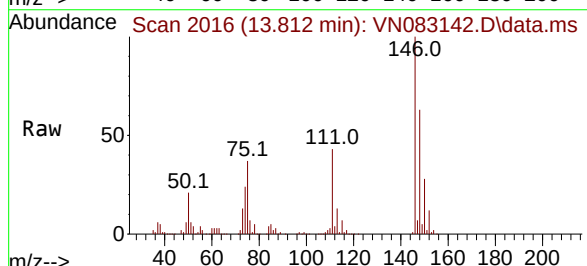
Tgt Ion:146 Resp: 252088

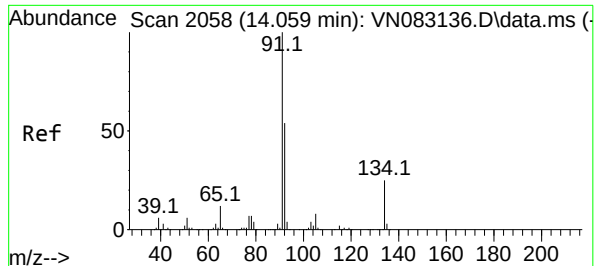
Ion Ratio Lower Upper

146 100

111 42.6 20.1 60.3

148 64.5 32.2 96.6





#89

n-Butylbenzene

Concen: 48.489 ug/l

RT: 14.059 min Scan# 2058

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724

Tgt Ion: 91 Resp: 461440

Ion Ratio Lower Upper

91 100

92 53.9 26.1 78.3

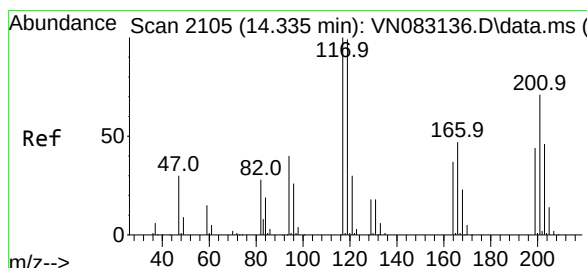
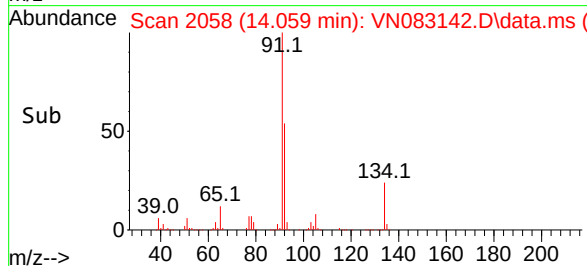
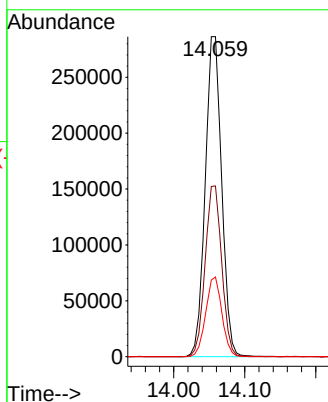
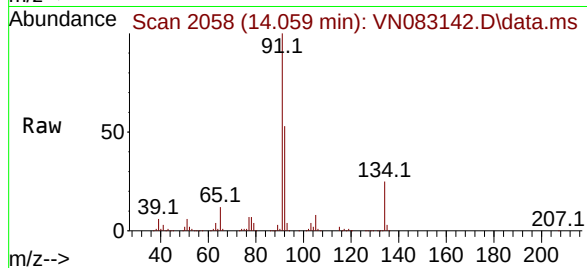
134 24.5 12.1 36.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#90

Hexachloroethane

Concen: 46.741 ug/l

RT: 14.335 min Scan# 2105

Delta R.T. 0.000 min

Lab File: VN083142.D

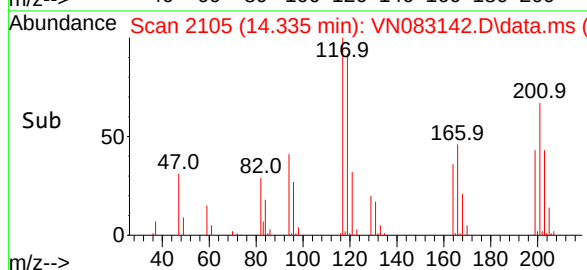
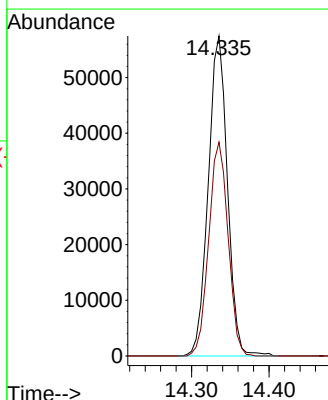
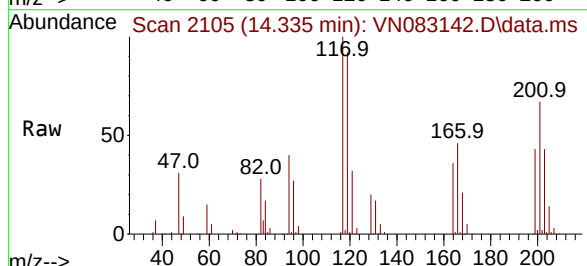
Acq: 07 Aug 2024 14:49

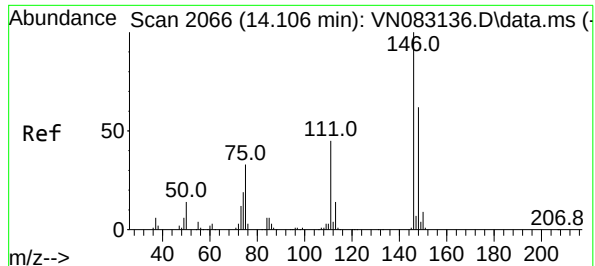
Tgt Ion:117 Resp: 99176

Ion Ratio Lower Upper

117 100

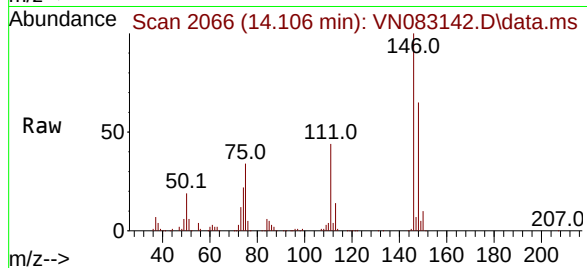
201 67.3 35.8 107.3





#91
1,2-Dichlorobenzene
Concen: 45.255 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

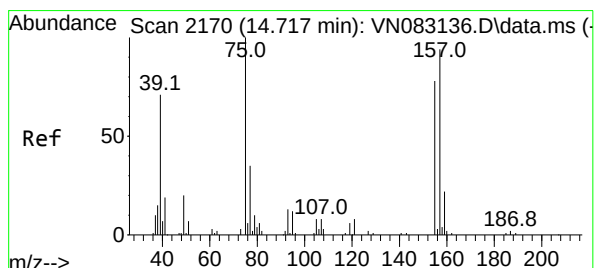
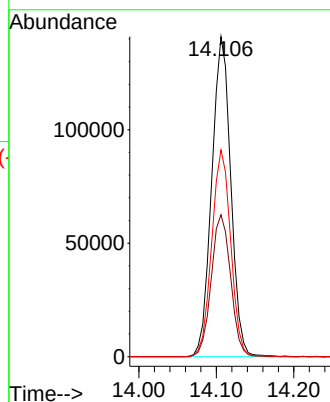
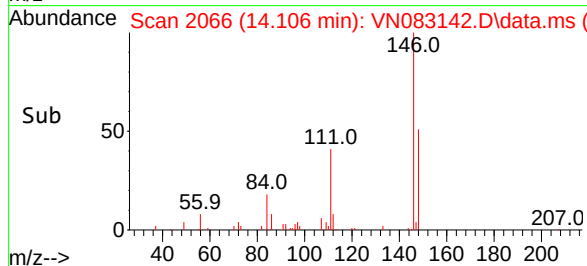
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion:146 Resp: 240677
Ion Ratio Lower Upper
146 100
111 45.2 21.4 64.2
148 64.4 32.1 96.5

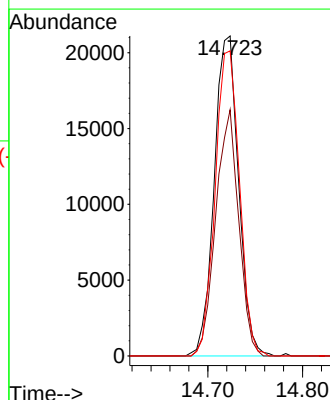
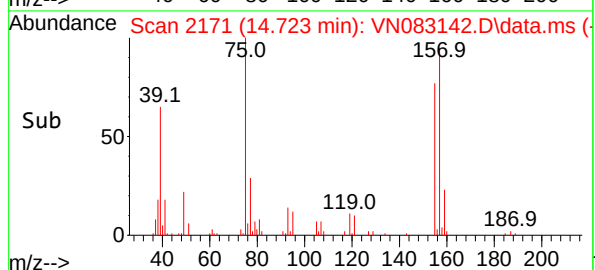
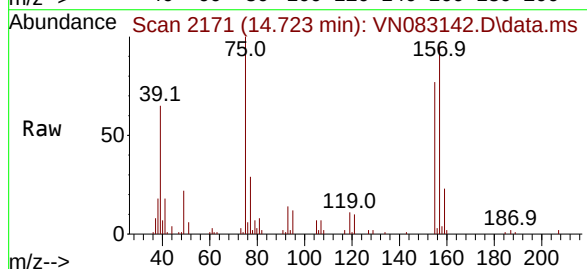
Manual Integrations
APPROVED

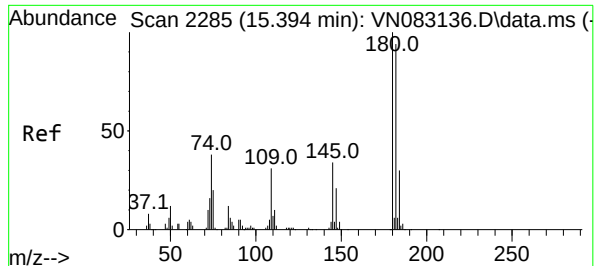
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#92
1,2-Dibromo-3-Chloropropane
Concen: 41.753 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 75 Resp: 37677
Ion Ratio Lower Upper
75 100
155 72.8 36.6 109.8
157 95.3 46.9 140.6





#93

1,2,4-Trichlorobenzene

Concen: 46.054 ug/l

RT: 15.394 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN083142.D

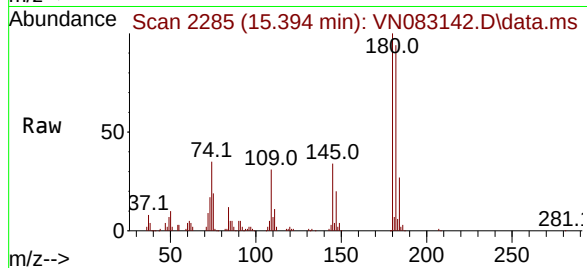
Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724



Tgt Ion:180 Resp: 137214

Ion Ratio Lower Upper

180 100

182 97.2 47.3 141.8

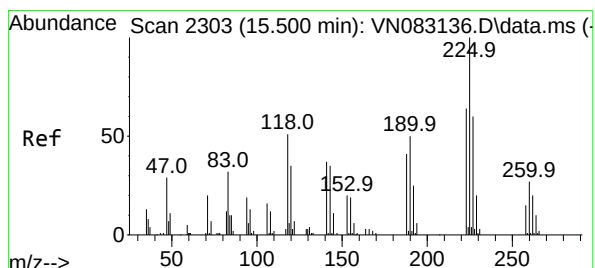
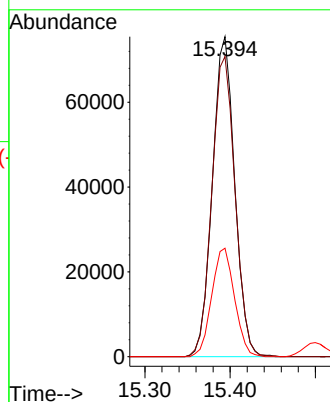
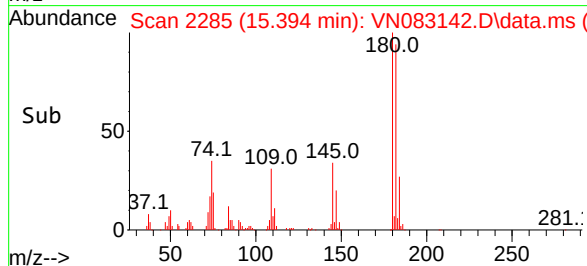
145 34.6 15.7 47.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#94

Hexachlorobutadiene

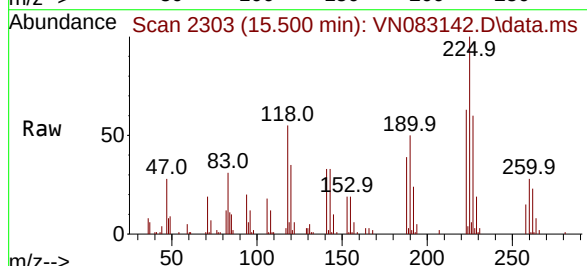
Concen: 43.315 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49



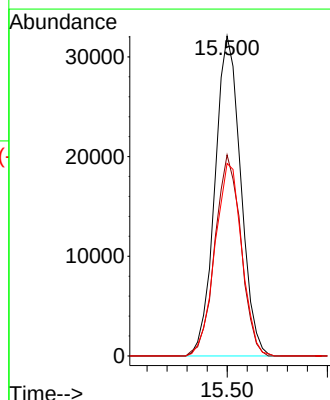
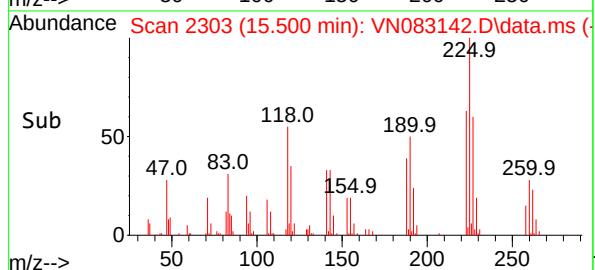
Tgt Ion:225 Resp: 57394

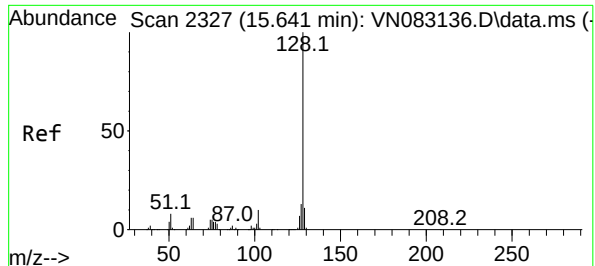
Ion Ratio Lower Upper

225 100

223 63.3 31.9 95.7

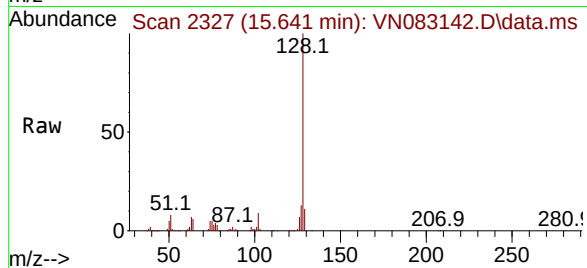
227 62.6 32.5 97.5





#95
Naphthalene
Concen: 44.692 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

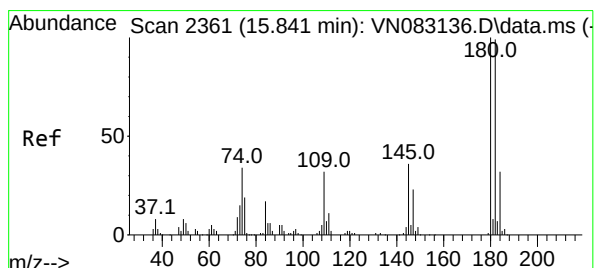
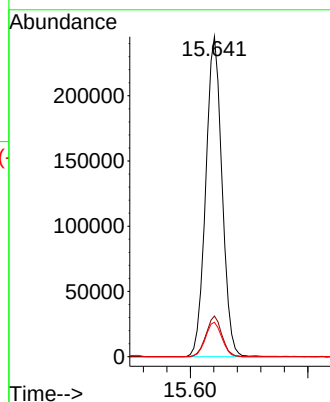
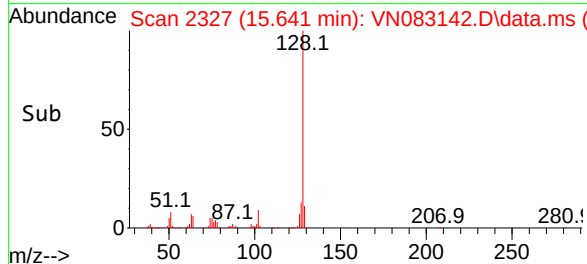
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion:128 Resp: 471674
Ion Ratio Lower Upper
128 100
127 12.4 10.6 16.0
129 10.8 8.6 12.8

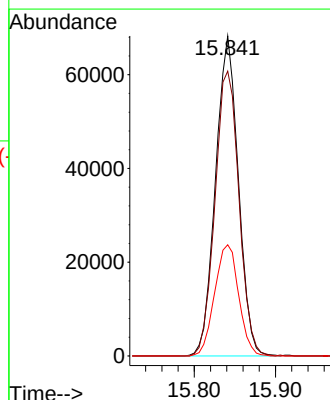
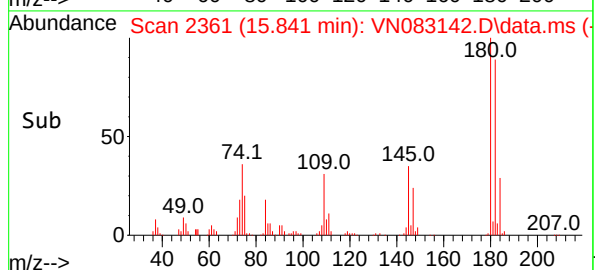
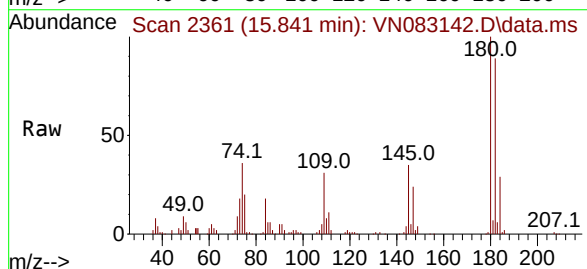
Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#96
1,2,3-Trichlorobenzene
Concen: 45.221 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:180 Resp: 133315
Ion Ratio Lower Upper
180 100
182 93.7 48.9 146.8
145 36.6 16.8 50.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
 Data File : VN083142.D
 Acq On : 07 Aug 2024 14:49
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN080724

Quant Time: Aug 08 06:35:30 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 06:30:41 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	0.567	0.534	5.8	102	0.00
3 P	Chloromethane	0.581	0.537	7.6	99	0.00
4 C	Vinyl Chloride	0.592	0.544	8.1#	99	0.00
5 T	Bromomethane	0.368	0.316	14.1	97	0.00
6 T	Chloroethane	0.371	0.324	12.7	99	0.00
7 T	Trichlorofluoromethane	0.979	0.922	5.8	101	0.00
8 T	Diethyl Ether	0.364	0.337	7.4	100	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.539	0.509	5.6	101	0.00
10 T	Methyl Iodide	0.710	0.672	5.4	99	0.00
11 T	Tert butyl alcohol	0.148	0.123	16.9	92	0.00
12 CM	1,1-Dichloroethene	0.554	0.505	8.8#	101	0.00
13 T	Acrolein	0.096	0.084	12.5	90	0.00
14 T	Allyl chloride	1.047	0.862	17.7	101	0.00
15 T	Acrylonitrile	0.304	0.265	12.8	95	0.00
16 T	Acetone	0.278	0.235	15.5	90	0.00
17 T	Carbon Disulfide	1.622	1.417	12.6	99	0.00
18 T	Methyl Acetate	0.830	0.704	15.2	99	0.00
19 T	Methyl tert-butyl Ether	2.001	1.872	6.4	101	0.00
20 T	Methylene Chloride	0.641	0.559	12.8	102	0.00
21 T	trans-1,2-Dichloroethene	0.573	0.523	8.7	99	-0.01
22 T	Diisopropyl ether	1.969	1.846	6.2	100	0.00
23 T	Vinyl Acetate	2.018	1.900	5.8	99	0.00
24 P	1,1-Dichloroethane	1.073	1.002	6.6	101	0.00
25 T	2-Butanone	0.428	0.362	15.4	93	0.00
26 T	2,2-Dichloropropane	0.997	0.954	4.3	102	0.00
27 T	cis-1,2-Dichloroethene	0.691	0.638	7.7	101	0.00
28 T	Bromochloromethane	0.439	0.403	8.2	100	0.00
29 T	Tetrahydrofuran	0.276	0.246	10.9	96	0.00
30 C	Chloroform	1.115	1.057	5.2#	101	0.00
31 T	Cyclohexane	1.055	0.917	13.1	102	0.00
32 T	1,1,1-Trichloroethane	1.055	0.995	5.7	101	0.00
33 S	1,2-Dichloroethane-d4	0.712	0.720	-1.1	105	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	109	0.00
35 S	Dibromofluoromethane	0.312	0.322	-3.2	106	0.00
36 T	1,1-Dichloropropene	0.472	0.451	4.4	103	0.00
37 T	Ethyl Acetate	0.529	0.456	13.8	100	0.00
38 T	Carbon Tetrachloride	0.532	0.509	4.3	102	0.00
39 T	Methylcyclohexane	0.580	0.555	4.3	101	0.00
40 TM	Benzene	1.406	1.340	4.7	101	0.00
41 T	Methacrylonitrile	0.301	0.259	14.0	99	0.00
42 TM	1,2-Dichloroethane	0.512	0.485	5.3	102	0.00
43 T	Isopropyl Acetate	1.211	0.841	30.6#	100	0.00
44 TM	Trichloroethene	0.335	0.321	4.2	102	0.00
45 C	1,2-Dichloropropane	0.334	0.322	3.6#	101	0.00
46 T	Dibromomethane	0.239	0.225	5.9	98	0.00
47 T	Bromodichloromethane	0.537	0.505	6.0	102	0.00
48 T	Methyl methacrylate	0.437	0.390	10.8	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
 Data File : VN083142.D
 Acq On : 07 Aug 2024 14:49
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN080724

Quant Time: Aug 08 06:35:30 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 06:30:41 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	0.008	0.007	12.5	93	0.00
50 S	Toluene-d8	1.164	1.215	-4.4	105	0.00
51 T	4-Methyl-2-Pentanone	0.500	0.462	7.6	97	0.00
52 CM	Toluene	0.889	0.862	3.0#	101	0.00
53 T	t-1,3-Dichloropropene	0.551	0.549	0.4	100	0.00
54 T	cis-1,3-Dichloropropene	0.586	0.568	3.1	102	0.00
55 T	1,1,2-Trichloroethane	0.318	0.308	3.1	101	0.00
56 T	Ethyl methacrylate	0.600	0.569	5.2	99	0.00
57 T	1,3-Dichloropropane	0.568	0.538	5.3	99	0.00
58 T	2-Chloroethyl Vinyl ether	0.254	0.249	2.0	104	0.00
59 T	2-Hexanone	0.387	0.348	10.1	96	0.00
60 T	Dibromochloromethane	0.385	0.381	1.0	100	0.00
61 T	1,2-Dibromoethane	0.335	0.315	6.0	99	0.00
62 S	4-Bromofluorobenzene	0.454	0.477	-5.1	106	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	109	0.00
64 T	Tetrachloroethene	0.331	0.319	3.6	102	0.00
65 PM	Chlorobenzene	1.105	1.050	5.0	100	0.00
66 T	1,1,1,2-Tetrachloroethane	0.390	0.365	6.4	100	0.00
67 C	Ethyl Benzene	2.027	1.936	4.5#	102	0.00
68 T	m/p-Xylenes	0.759	0.732	3.6	102	0.00
69 T	o-Xylene	0.749	0.699	6.7	99	0.00
70 T	Styrene	1.258	1.220	3.0	100	0.00
71 P	Bromoform	0.295	0.282	4.4	97	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	110	0.00
73 T	Isopropylbenzene	4.182	3.922	6.2	101	0.00
74 T	N-amyl acetate	2.046	1.790	12.5	98	0.00
75 P	1,1,2,2-Tetrachloroethane	1.183	1.018	13.9	96	0.00
76 T	1,2,3-Trichloropropane	1.097	0.924	15.8	95	0.00
77 T	Bromobenzene	0.929	0.867	6.7	99	0.00
78 T	n-propylbenzene	4.816	4.592	4.7	101	0.00
79 T	2-Chlorotoluene	3.053	2.833	7.2	101	0.00
80 T	1,3,5-Trimethylbenzene	3.501	3.338	4.7	102	0.00
81 T	trans-1,4-Dichloro-2-butene	0.504	0.475	5.8	105	0.00
82 T	4-Chlorotoluene	3.062	2.849	7.0	101	0.00
83 T	tert-Butylbenzene	3.101	2.863	7.7	99	0.00
84 T	1,2,4-Trimethylbenzene	3.529	3.281	7.0	98	0.00
85 T	sec-Butylbenzene	4.231	3.979	6.0	99	0.00
86 T	p-Isopropyltoluene	3.493	3.323	4.9	99	0.00
87 T	1,3-Dichlorobenzene	1.748	1.607	8.1	99	0.00
88 T	1,4-Dichlorobenzene	1.762	1.604	9.0	99	0.00
89 T	n-Butylbenzene	3.027	2.935	3.0	100	0.00
90 T	Hexachloroethane	0.675	0.631	6.5	100	0.00
91 T	1,2-Dichlorobenzene	1.692	1.531	9.5	98	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.287	0.240	16.4	93	0.00
93 T	1,2,4-Trichlorobenzene	0.948	0.873	7.9	97	0.00
94 T	Hexachlorobutadiene	0.421	0.365	13.3	98	0.00
95 T	Naphthalene	3.357	3.001	10.6	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083142.D
Acq On : 07 Aug 2024 14:49
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Quant Time: Aug 08 06:35:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 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	0.938	0.848	9.6	97	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
 Data File : VN083142.D
 Acq On : 07 Aug 2024 14:49
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN080724

Quant Time: Aug 08 06:35:30 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 06:30:41 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	47.102	5.8	102	0.00
3 P	Chloromethane	50.000	46.238	7.5	99	0.00
4 C	Vinyl Chloride	50.000	45.937	8.1#	99	0.00
5 T	Bromomethane	50.000	42.984	14.0	97	0.00
6 T	Chloroethane	50.000	43.725	12.5	99	0.00
7 T	Trichlorofluoromethane	50.000	47.124	5.8	101	0.00
8 T	Diethyl Ether	50.000	46.259	7.5	100	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	47.176	5.6	101	0.00
10 T	Methyl Iodide	50.000	47.349	5.3	99	0.00
11 T	Tert butyl alcohol	250.000	208.135	16.7	92	0.00
12 CM	1,1-Dichloroethene	50.000	45.562	8.9#	101	0.00
13 T	Acrolein	250.000	217.571	13.0	90	0.00
14 T	Allyl chloride	50.000	41.173	17.7	101	0.00
15 T	Acrylonitrile	250.000	217.950	12.8	95	0.00
16 T	Acetone	250.000	210.840	15.7	90	0.00
17 T	Carbon Disulfide	50.000	43.689	12.6	99	0.00
18 T	Methyl Acetate	50.000	42.397	15.2	99	0.00
19 T	Methyl tert-butyl Ether	50.000	46.781	6.4	101	0.00
20 T	Methylene Chloride	50.000	43.645	12.7	102	0.00
21 T	trans-1,2-Dichloroethene	50.000	45.671	8.7	99	-0.01
22 T	Diisopropyl ether	50.000	46.881	6.2	100	0.00
23 T	Vinyl Acetate	250.000	235.414	5.8	99	0.00
24 P	1,1-Dichloroethane	50.000	46.685	6.6	101	0.00
25 T	2-Butanone	250.000	211.782	15.3	93	0.00
26 T	2,2-Dichloropropane	50.000	47.853	4.3	102	0.00
27 T	cis-1,2-Dichloroethene	50.000	46.113	7.8	101	0.00
28 T	Bromochloromethane	50.000	45.986	8.0	100	0.00
29 T	Tetrahydrofuran	250.000	222.147	11.1	96	0.00
30 C	Chloroform	50.000	47.387	5.2#	101	0.00
31 T	Cyclohexane	50.000	43.474	13.1	102	0.00
32 T	1,1,1-Trichloroethane	50.000	47.135	5.7	101	0.00
33 S	1,2-Dichloroethane-d4	50.000	50.583	-1.2	105	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	109	0.00
35 S	Dibromofluoromethane	50.000	51.549	-3.1	106	0.00
36 T	1,1-Dichloropropene	50.000	47.732	4.5	103	0.00
37 T	Ethyl Acetate	50.000	43.124	13.8	100	0.00
38 T	Carbon Tetrachloride	50.000	47.904	4.2	102	0.00
39 T	Methylcyclohexane	50.000	47.821	4.4	101	0.00
40 TM	Benzene	50.000	47.635	4.7	101	0.00
41 T	Methacrylonitrile	50.000	43.013	14.0	99	0.00
42 TM	1,2-Dichloroethane	50.000	47.310	5.4	102	0.00
43 T	Isopropyl Acetate	50.000	45.577	8.8	100	0.00
44 TM	Trichloroethene	50.000	47.994	4.0	102	0.00
45 C	1,2-Dichloropropane	50.000	48.208	3.6#	101	0.00
46 T	Dibromomethane	50.000	47.124	5.8	98	0.00
47 T	Bromodichloromethane	50.000	47.047	5.9	102	0.00
48 T	Methyl methacrylate	50.000	44.609	10.8	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
 Data File : VN083142.D
 Acq On : 07 Aug 2024 14:49
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN080724

Quant Time: Aug 08 06:35:30 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 06:30:41 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	885.211	11.5	93	0.00
50 S	Toluene-d8	50.000	52.175	-4.3	105	0.00
51 T	4-Methyl-2-Pentanone	250.000	230.917	7.6	97	0.00
52 CM	Toluene	50.000	48.520	3.0#	101	0.00
53 T	t-1,3-Dichloropropene	50.000	49.776	0.4	100	0.00
54 T	cis-1,3-Dichloropropene	50.000	48.487	3.0	102	0.00
55 T	1,1,2-Trichloroethane	50.000	48.351	3.3	101	0.00
56 T	Ethyl methacrylate	50.000	47.395	5.2	99	0.00
57 T	1,3-Dichloropropane	50.000	47.391	5.2	99	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	244.918	2.0	104	0.00
59 T	2-Hexanone	250.000	224.916	10.0	96	0.00
60 T	Dibromochloromethane	50.000	49.513	1.0	100	0.00
61 T	1,2-Dibromoethane	50.000	47.133	5.7	99	0.00
62 S	4-Bromofluorobenzene	50.000	52.574	-5.1	106	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	109	0.00
64 T	Tetrachloroethene	50.000	48.175	3.7	102	0.00
65 PM	Chlorobenzene	50.000	47.522	5.0	100	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	46.843	6.3	100	0.00
67 C	Ethyl Benzene	50.000	47.764	4.5#	102	0.00
68 T	m/p-Xylenes	100.000	96.434	3.6	102	0.00
69 T	o-Xylene	50.000	46.662	6.7	99	0.00
70 T	Styrene	50.000	48.487	3.0	100	0.00
71 P	Bromoform	50.000	47.797	4.4	97	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	110	0.00
73 T	Isopropylbenzene	50.000	46.893	6.2	101	0.00
74 T	N-amyl acetate	50.000	43.748	12.5	98	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	43.016	14.0	96	0.00
76 T	1,2,3-Trichloropropane	50.000	42.119	15.8	95	0.00
77 T	Bromobenzene	50.000	46.649	6.7	99	0.00
78 T	n-propylbenzene	50.000	47.678	4.6	101	0.00
79 T	2-Chlorotoluene	50.000	46.398	7.2	101	0.00
80 T	1,3,5-Trimethylbenzene	50.000	47.673	4.7	102	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	47.070	5.9	105	0.00
82 T	4-Chlorotoluene	50.000	46.512	7.0	101	0.00
83 T	tert-Butylbenzene	50.000	46.173	7.7	99	0.00
84 T	1,2,4-Trimethylbenzene	50.000	46.493	7.0	98	0.00
85 T	sec-Butylbenzene	50.000	47.018	6.0	99	0.00
86 T	p-Isopropyltoluene	50.000	47.566	4.9	99	0.00
87 T	1,3-Dichlorobenzene	50.000	45.959	8.1	99	0.00
88 T	1,4-Dichlorobenzene	50.000	45.499	9.0	99	0.00
89 T	n-Butylbenzene	50.000	48.489	3.0	100	0.00
90 T	Hexachloroethane	50.000	46.741	6.5	100	0.00
91 T	1,2-Dichlorobenzene	50.000	45.255	9.5	98	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	41.753	16.5	93	0.00
93 T	1,2,4-Trichlorobenzene	50.000	46.054	7.9	97	0.00
94 T	Hexachlorobutadiene	50.000	43.315	13.4	98	0.00
95 T	Naphthalene	50.000	44.692	10.6	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083142.D
Acq On : 07 Aug 2024 14:49
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Quant Time: Aug 08 06:35:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 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	45.221	9.6	97	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: JAC005

Lab Code: CHEM Case No.: P3451 SAS No.: P3451 SDG No.: P3451

Instrument ID: MSVOA_N Calibration Date/Time: 08/14/2024 02:14

Lab File ID: VN083273.D Init. Calib. Date(s): 08/07/2024 08/07/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:33 12:34

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.567	0.522		-7.94	20
Chloromethane	0.581	0.527	0.1	-9.29	20
Vinyl Chloride	0.592	0.575		-2.87	20
Bromomethane	0.368	0.331		-10.05	20
Chloroethane	0.371	0.373		0.54	20
1,1,2-Trichlorotrifluoroethane	0.539	0.535		-0.74	20
1,1-Dichloroethene	0.554	0.506		-8.66	20
Acetone	0.278	0.237		-14.75	20
Carbon Disulfide	1.622	1.315		-18.93	20
Methyl tert-butyl Ether	2.001	1.942		-2.95	20
Methylene Chloride	0.641	0.582		-9.2	20
trans-1,2-Dichloroethene	0.573	0.535		-6.63	20
1,1-Dichloroethane	1.073	1.074	0.1	0.09	20
Cyclohexane	1.055	0.902		-14.5	20
2-Butanone	0.428	0.388		-9.35	20
Carbon Tetrachloride	0.532	0.520		-2.26	20
cis-1,2-Dichloroethene	0.691	0.670		-3.04	20
Chloroform	1.115	1.154		3.5	20
1,1,1-Trichloroethane	1.055	1.071		1.52	20
Methylcyclohexane	0.580	0.509		-12.24	20
Benzene	1.406	1.358		-3.41	20
1,2-Dichloroethane	0.512	0.512		0	20
Trichloroethene	0.335	0.321		-4.18	20
Bromodichloromethane	0.537	0.535		-0.37	20
Toluene	0.889	0.866		-2.59	20
1,1,2-Trichloroethane	0.318	0.320		0.63	20
Dibromochloromethane	0.385	0.394		2.34	20
Tetrachloroethene	0.331	0.321		-3.02	20
Chlorobenzene	1.105	1.051	0.3	-4.89	20
Ethyl Benzene	2.027	1.943		-4.14	20
m/p-Xylenes	0.759	0.733		-3.43	20
o-Xylene	0.749	0.718		-4.14	20
Isopropylbenzene	4.182	3.855		-7.82	20
1,4-Dichlorobenzene	1.762	1.610		-8.63	20
1,2-Dichlorobenzene	1.692	1.570		-7.21	20
1,2-Dichloroethane-d4	0.712	0.707		-0.7	20
Dibromofluoromethane	0.312	0.295		-5.45	20
Toluene-d8	1.164	1.107		-4.9	20

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JACO05
Lab Code: CHEM Case No.: P3451 SAS No.: P3451 SDG No.: P3451
Instrument ID: MSVOA_N Calibration Date/Time: 08/14/2024 02:14
Lab File ID: VN083273.D Init. Calib. Date(s): 08/07/2024 08/07/2024
Heated Purge: (Y/N) N Init. Calib. Time(s): 10:33 12:34
GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
4-Bromofluorobenzene	0.454	0.432		-4.85	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
 Data File : VN083273.D
 Acq On : 14 Aug 2024 02:14
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/14/2024
 Supervised By : Mahesh Dadoda 08/14/2024

Quant Time: Aug 14 03:26:27 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 14 03:26:08 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	173401	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	306155	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	269814	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	130108	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	122516	49.638	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.280%
35) Dibromofluoromethane	8.165	113	90327	47.268	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.540%
50) Toluene-d8	10.565	98	338943	47.549	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	95.100%
62) 4-Bromofluorobenzene	12.847	95	132226	47.580	ug/l	0.00
Spiked Amount	50.000	Range	64 - 133	Recovery	=	95.160%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	90466	46.006	ug/l	96
3) Chloromethane	2.365	50	91400	45.401	ug/l	98
4) Vinyl Chloride	2.512	62	99698	48.533	ug/l	97
5) Bromomethane	2.942	94	57436	45.060	ug/l	98
6) Chloroethane	3.112	64	64761	50.390	ug/l	99
7) Trichlorofluoromethane	3.495	101	170380	50.207	ug/l	100
8) Diethyl Ether	3.959	74	61021	48.323	ug/l	84
9) 1,1,2-Trichlorotrifluo...	4.371	101	92740	49.568	ug/l	97
10) Methyl Iodide	4.589	142	106536	43.287	ug/l	99
11) Tert butyl alcohol	5.524	59	121460	236.796	ug/l	99
12) 1,1-Dichloroethene	4.336	96	87675	45.612	ug/l	94
13) Acrolein	4.177	56	65834	196.931	ug/l	98
14) Allyl chloride	5.024	41	145530	40.064	ug/l	94
15) Acrylonitrile	5.718	53	247750	234.853	ug/l	99
16) Acetone	4.424	43	205078	212.343	ug/l	98
17) Carbon Disulfide	4.706	76	228102	40.556	ug/l	98
18) Methyl Acetate	5.024	43	140082	48.682	ug/l	93
19) Methyl tert-butyl Ether	5.795	73	336684	48.527	ug/l	99
20) Methylene Chloride	5.277	84	100981	45.431	ug/l	88
21) trans-1,2-Dichloroethene	5.783	96	92774	46.698	ug/l	96
22) Diisopropyl ether	6.671	45	345219	50.559	ug/l	97
23) Vinyl Acetate	6.600	43	1717642m	245.427	ug/l	
24) 1,1-Dichloroethane	6.565	63	186243	50.042	ug/l	100
25) 2-Butanone	7.483	43	336054	226.614	ug/l	94
26) 2,2-Dichloropropane	7.489	77	115695	33.474	ug/l	98
27) cis-1,2-Dichloroethene	7.489	96	116118	48.436	ug/l	89
28) Bromochloromethane	7.812	49	73126	48.079	ug/l	86
29) Tetrahydrofuran	7.841	42	222339	231.937	ug/l	89
30) Chloroform	7.965	83	200122	51.757	ug/l	99
31) Cyclohexane	8.259	56	156417	42.764	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	185672	50.731	ug/l	96
36) 1,1-Dichloropropene	8.371	75	135648	46.925	ug/l	99
37) Ethyl Acetate	7.559	43	137449	42.466	ug/l #	93
38) Carbon Tetrachloride	8.365	117	159134	48.876	ug/l	99
39) Methylcyclohexane	9.600	83	155926	43.916	ug/l	96
40) Benzene	8.606	78	415815	48.285	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
 Data File : VN083273.D
 Acq On : 14 Aug 2024 02:14
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/14/2024
 Supervised By : Mahesh Dadoda 08/14/2024

Quant Time: Aug 14 03:26:27 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 14 03:26:08 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	81416	44.240	ug/l	95
42) 1,2-Dichloroethane	8.671	62	156783	49.978	ug/l	99
43) Isopropyl Acetate	8.688	43	260306	46.121	ug/l #	94
44) Trichloroethene	9.353	130	98415	48.013	ug/l	97
45) 1,2-Dichloropropane	9.618	63	101068	49.443	ug/l	99
46) Dibromomethane	9.706	93	73606	50.307	ug/l	99
47) Bromodichloromethane	9.888	83	163926	49.897	ug/l	98
48) Methyl methacrylate	9.682	41	121167	45.281	ug/l	93
49) 1,4-Dioxane	9.694	88	40696	842.987	ug/l	97
51) 4-Methyl-2-Pentanone	10.441	43	725322	236.978	ug/l	93
52) Toluene	10.630	92	265163	48.733	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	157356	46.629	ug/l	98
54) cis-1,3-Dichloropropene	10.312	75	163678	45.600	ug/l	92
55) 1,1,2-Trichloroethane	11.018	97	97875	50.194	ug/l	98
56) Ethyl methacrylate	10.871	69	175704	47.798	ug/l	88
57) 1,3-Dichloropropane	11.165	76	174124	50.099	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	372196	239.532	ug/l	96
59) 2-Hexanone	11.194	43	535223	226.034	ug/l	93
60) Dibromochloromethane	11.359	129	120644	51.173	ug/l	98
61) 1,2-Dibromoethane	11.471	107	101266	49.436	ug/l	97
64) Tetrachloroethene	11.106	164	86650	48.491	ug/l	96
65) Chlorobenzene	11.894	112	283451	47.539	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	100637	47.857	ug/l	100
67) Ethyl Benzene	11.965	91	524382	47.941	ug/l	98
68) m/p-Xylenes	12.071	106	395309	96.479	ug/l	99
69) o-Xylene	12.400	106	193761	47.948	ug/l	100
70) Styrene	12.412	104	331385	48.825	ug/l	99
71) Bromoform	12.576	173	75736	47.541	ug/l #	97
73) Isopropylbenzene	12.694	105	501606	46.093	ug/l	100
74) N-ethyl acetate	12.494	43	228068	42.845	ug/l	93
75) 1,1,2,2-Tetrachloroethane	12.935	83	140731	45.722	ug/l	98
76) 1,2,3-Trichloropropane	12.994	75	125319m	43.886	ug/l	
77) Bromobenzene	12.976	156	114435	47.337	ug/l	97
78) n-propylbenzene	13.035	91	589118	47.013	ug/l	99
79) 2-Chlorotoluene	13.123	91	364980	45.940	ug/l	98
80) 1,3,5-Trimethylbenzene	13.171	105	425635	46.717	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.735	75	46990	35.795	ug/l	97
82) 4-Chlorotoluene	13.218	91	370428	46.484	ug/l	97
83) tert-Butylbenzene	13.435	119	374894	46.463	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	435034	47.380	ug/l	98
85) sec-Butylbenzene	13.618	105	510406	46.360	ug/l	99
86) p-Isopropyltoluene	13.729	119	428320	47.118	ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	212036	46.613	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	209492	45.682	ug/l	98
89) n-Butylbenzene	14.053	91	364428	46.266	ug/l	98
90) Hexachloroethane	14.335	117	80859	46.041	ug/l	94
91) 1,2-Dichlorobenzene	14.106	146	204215	46.393	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	31578	42.279	ug/l	100
93) 1,2,4-Trichlorobenzene	15.394	180	111553	45.235	ug/l	98
94) Hexachlorobutadiene	15.500	225	44878	40.920	ug/l	98
95) Naphthalene	15.641	128	384733	44.043	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	110878	45.439	ug/l	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083273.D
Acq On : 14 Aug 2024 02:14
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

Quant Time: Aug 14 03:26:27 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 14 03:26:08 2024
Response via : Initial Calibration

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

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

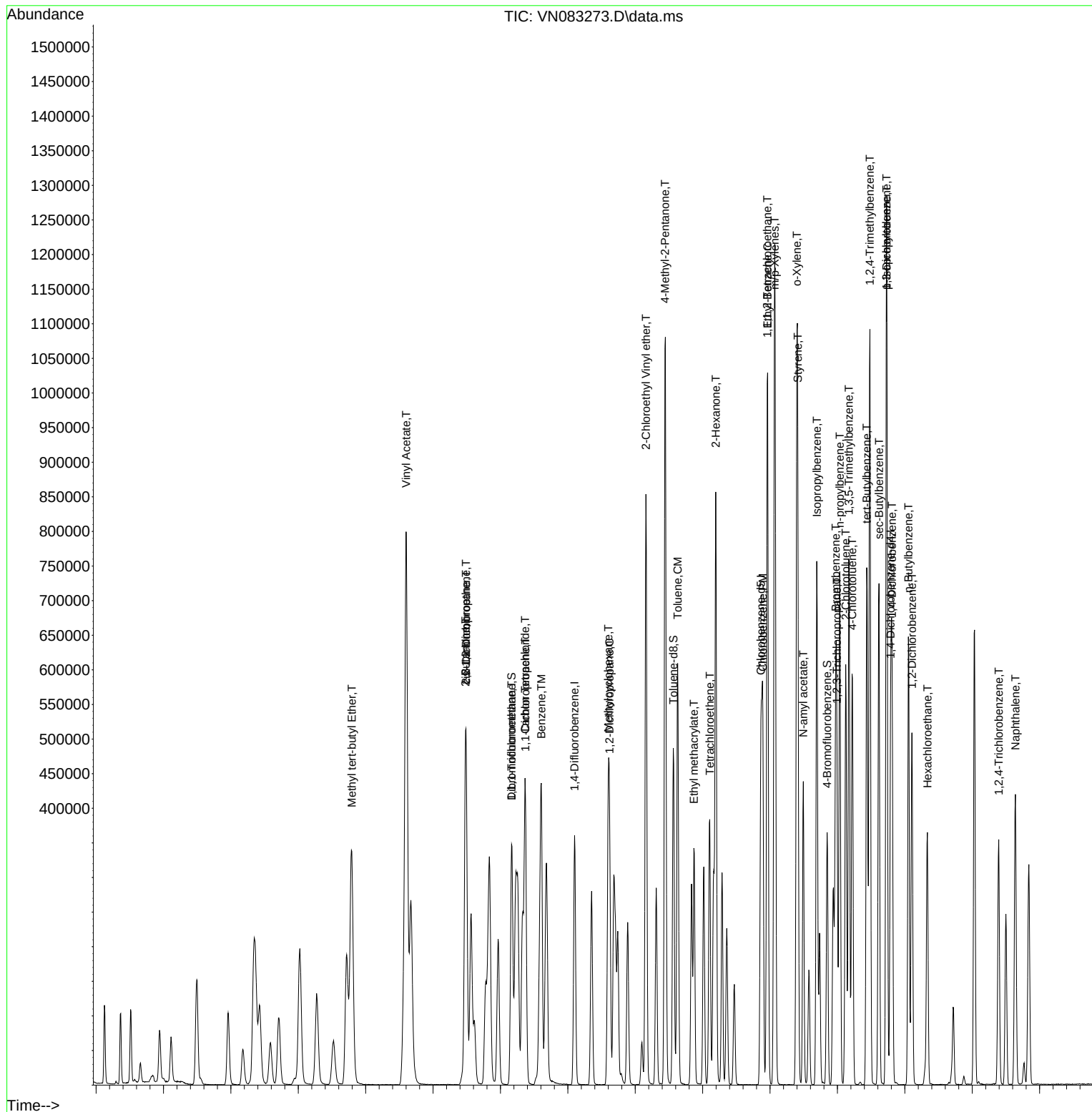
```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\  
Data File : VN083273.D  
Acq On    : 14 Aug 2024   02:14  
Operator  : JC\MD  
Sample    : VSTDCCC050  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 33   Sample Multiplier: 1
```

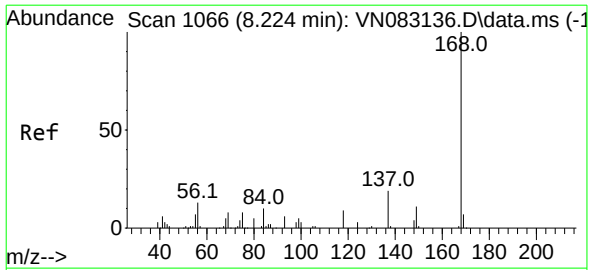
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

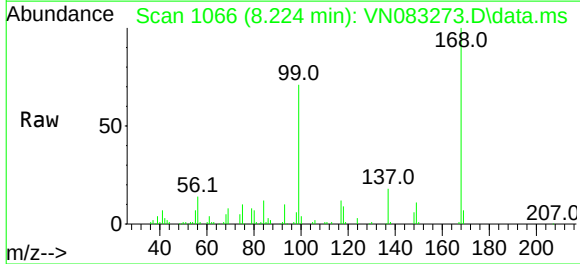
Quant Time: Aug 14 03:26:27 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 14 03:26:08 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

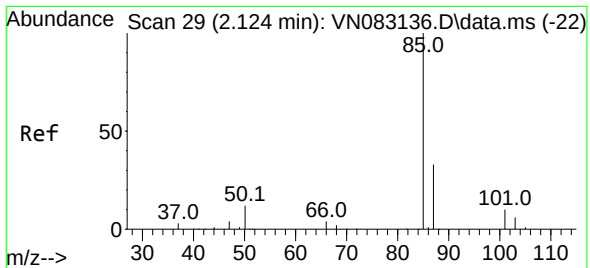
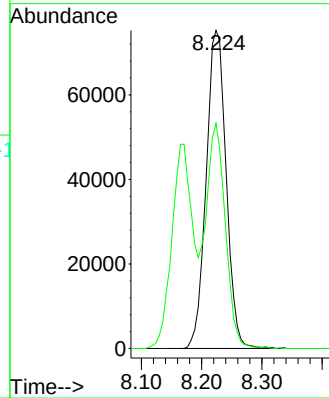
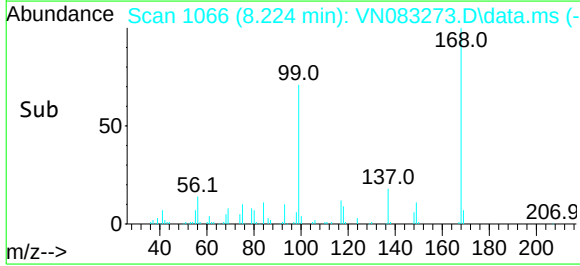
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 168 Resp: 173401
Ion Ratio Lower Upper
168 100
99 70.5 48.2 72.4

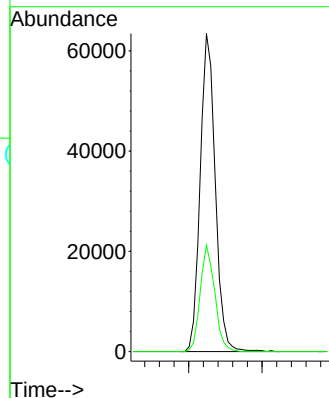
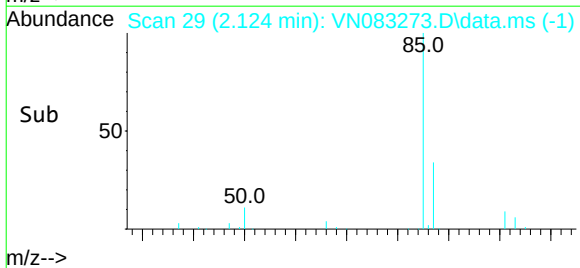
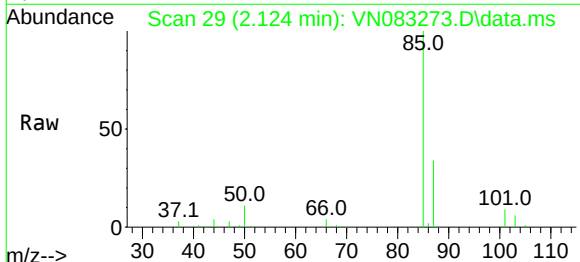
Manual Integrations
APPROVED

Reviewed By : John Carlone 08/14/2024
Supervised By : Mahesh Dadoda 08/14/2024

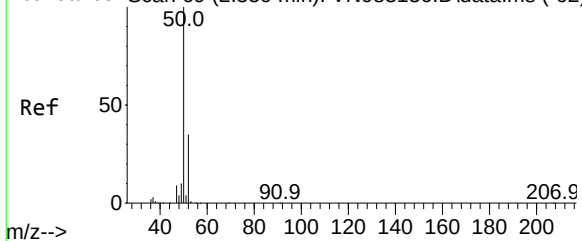


#2
Dichlorodifluoromethane
Concen: 46.006 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 85 Resp: 90466
Ion Ratio Lower Upper
85 100
87 33.5 15.7 47.0



Abundance Scan 69 (2.359 min): VN083136.D\data.ms (-62)



#3

Chloromethane

Concen: 45.401 ug/l

RT: 2.365 min Scan# 70

Delta R.T. 0.006 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 50 Resp: 91400

Ion Ratio Lower Upper

50 100

52 32.2 25.0 37.4

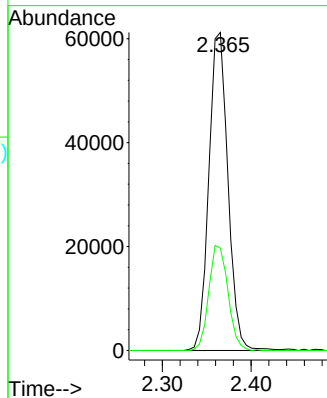
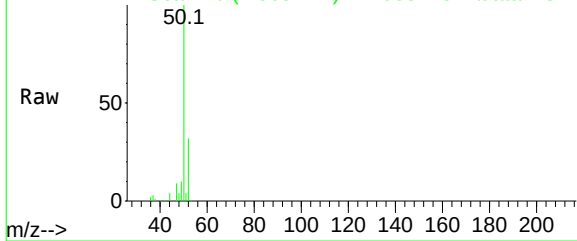
Manual Integrations

APPROVED

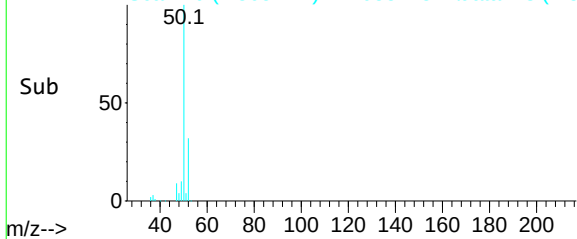
Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024

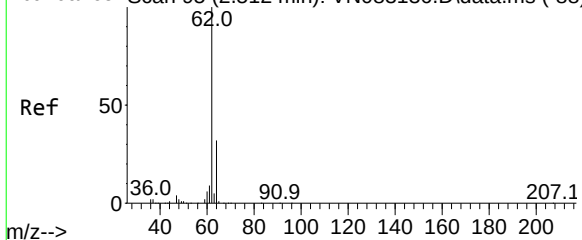
Abundance Scan 70 (2.365 min): VN083273.D\data.ms



Abundance Scan 70 (2.365 min): VN083273.D\data.ms (-18)



Abundance Scan 95 (2.512 min): VN083136.D\data.ms (-88)



#4

Vinyl Chloride

Concen: 48.533 ug/l

RT: 2.512 min Scan# 95

Delta R.T. 0.000 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

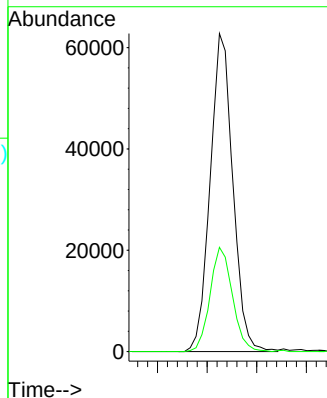
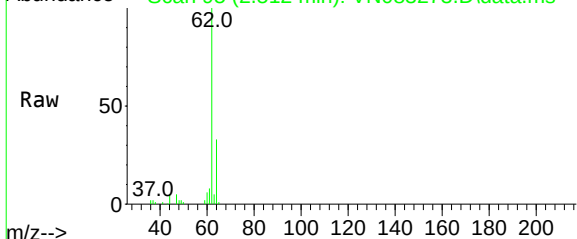
Tgt Ion: 62 Resp: 99698

Ion Ratio Lower Upper

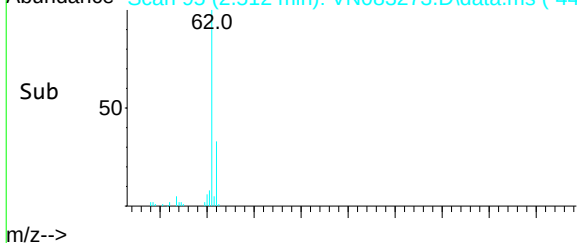
62 100

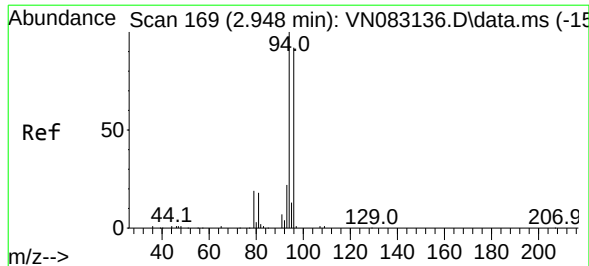
64 32.8 25.0 37.6

Abundance Scan 95 (2.512 min): VN083273.D\data.ms



Abundance Scan 95 (2.512 min): VN083273.D\data.ms (-44)





#5

Bromomethane

Concen: 45.060 ug/l

RT: 2.942 min Scan# 16

Delta R.T. -0.006 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 94 Resp: 57436

Ion Ratio Lower Upper

94 100

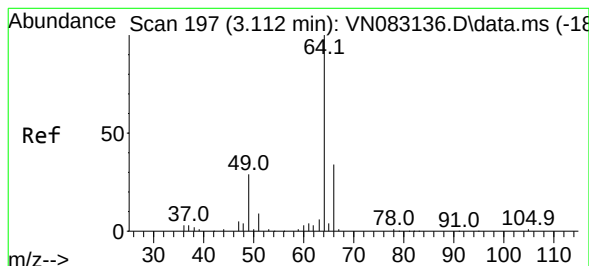
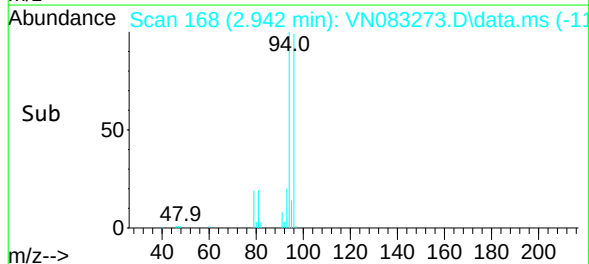
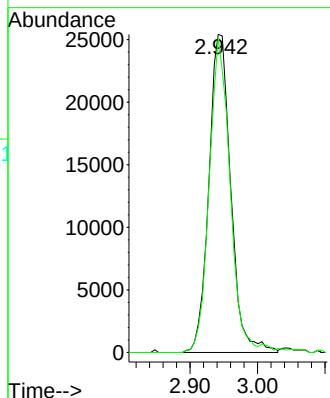
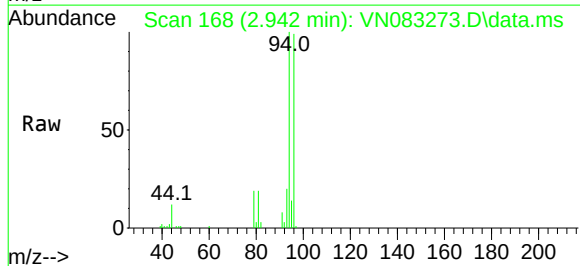
96 99.2 78.0 117.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#6

Chloroethane

Concen: 50.390 ug/l

RT: 3.112 min Scan# 197

Delta R.T. 0.000 min

Lab File: VN083273.D

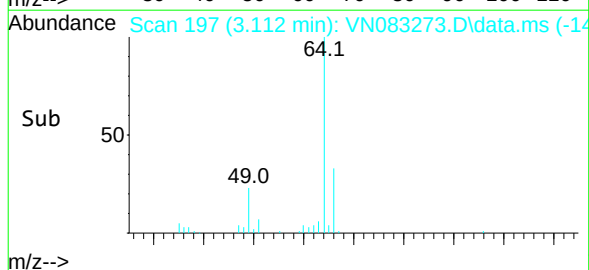
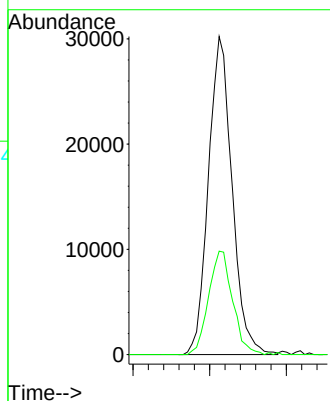
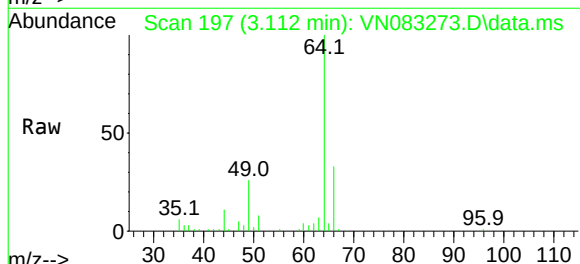
Acq: 14 Aug 2024 02:14

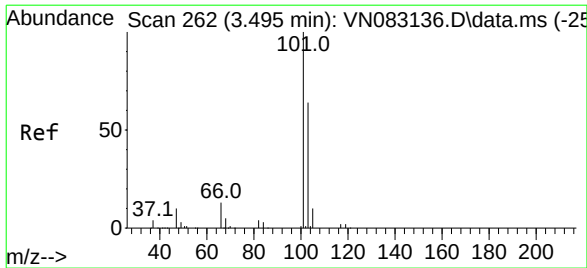
Tgt Ion: 64 Resp: 64761

Ion Ratio Lower Upper

64 100

66 32.5 26.6 40.0





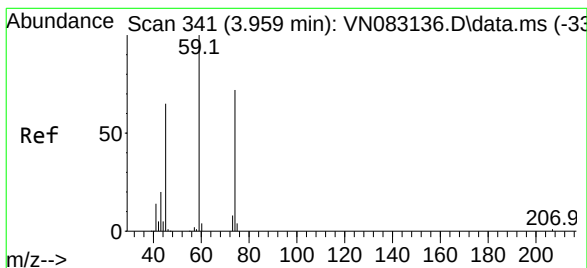
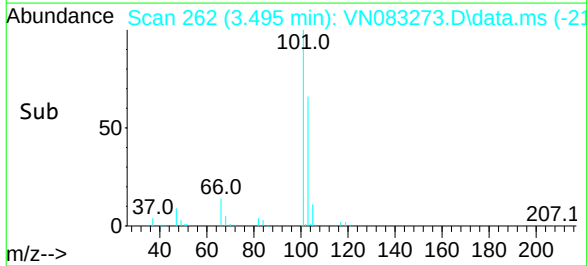
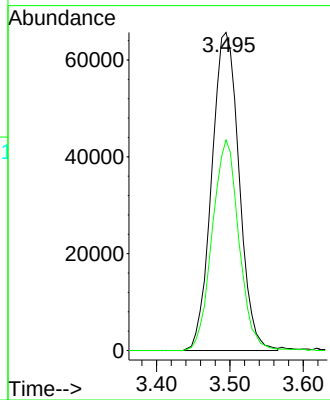
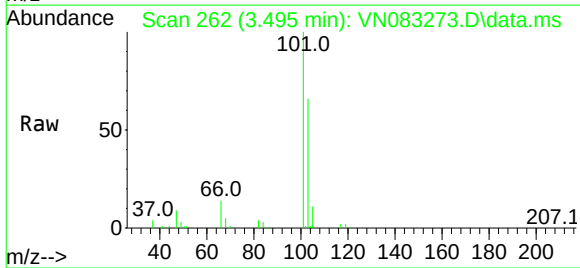
#7
Trichlorofluoromethane
Concen: 50.207 ug/l
RT: 3.495 min Scan# 262
Delta R.T. -0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 170380
Ion Ratio Lower Upper
101 100
103 66.1 52.7 79.1

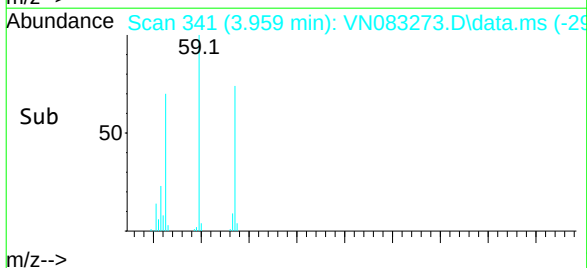
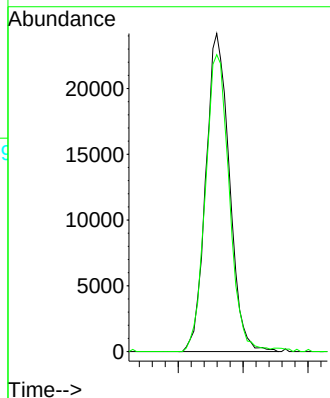
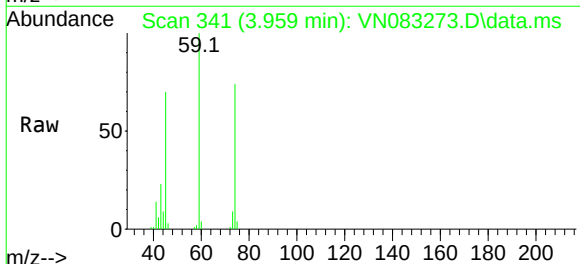
Manual Integrations
APPROVED

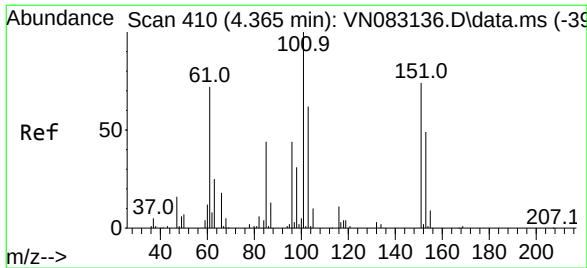
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#8
Diethyl Ether
Concen: 48.323 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 74 Resp: 61021
Ion Ratio Lower Upper
74 100
45 94.4 55.5 166.3





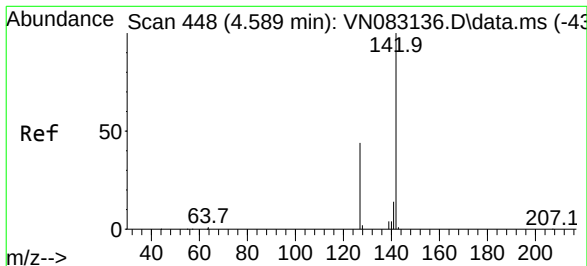
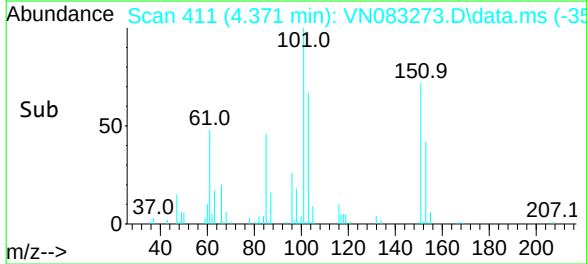
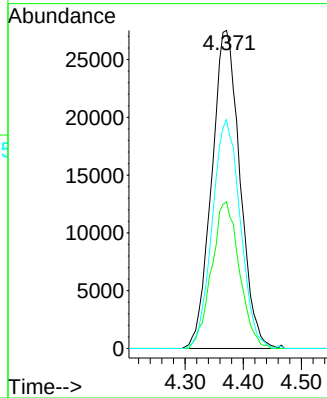
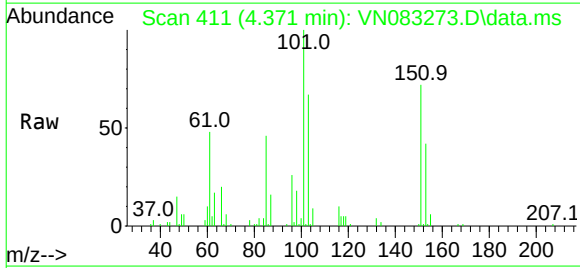
#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.568 ug/l
RT: 4.371 min Scan# 410
Delta R.T. 0.006 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 92740
Ion Ratio Lower Upper
101 100
85 45.3 38.3 57.5
151 71.5 59.3 88.9

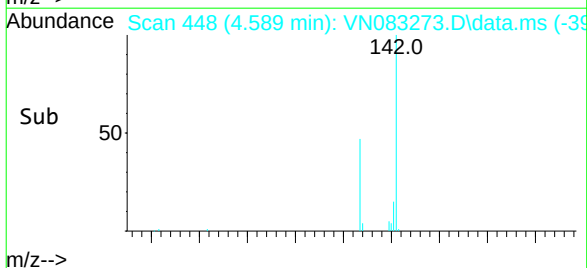
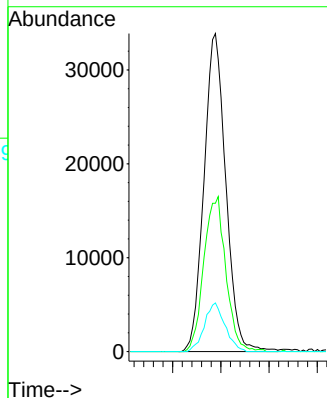
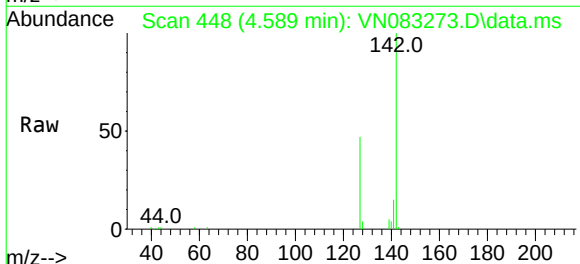
Manual Integrations
APPROVED

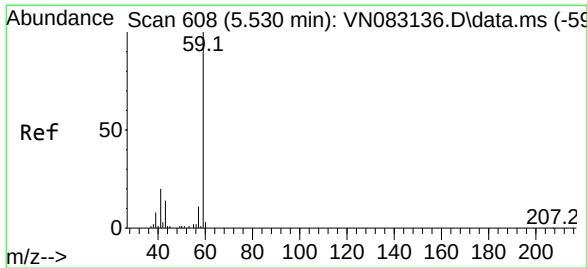
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#10
Methyl Iodide
Concen: 43.287 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:142 Resp: 106536
Ion Ratio Lower Upper
142 100
127 46.6 37.5 56.3
141 15.3 13.1 19.7





#11

Tert butyl alcohol

Concen: 236.796 ug/l

RT: 5.524 min Scan# 608

Delta R.T. -0.006 min

Lab File: VN083273.D

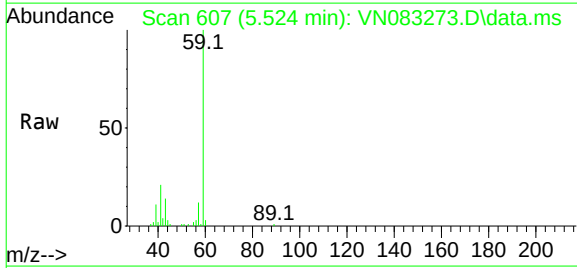
Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050



Tgt Ion: 59 Resp: 121466

Ion Ratio Lower Upper

59 100

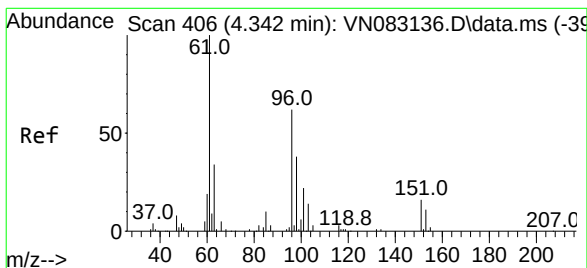
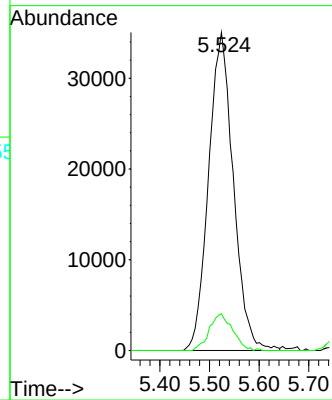
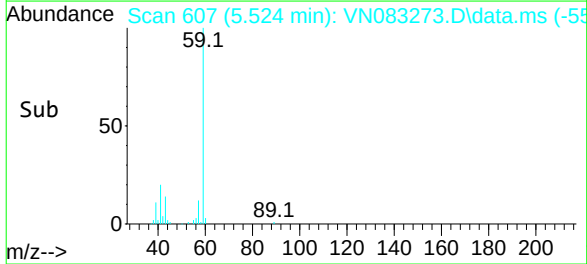
57 10.9 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#12

1,1-Dichloroethene

Concen: 45.612 ug/l

RT: 4.336 min Scan# 405

Delta R.T. -0.006 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

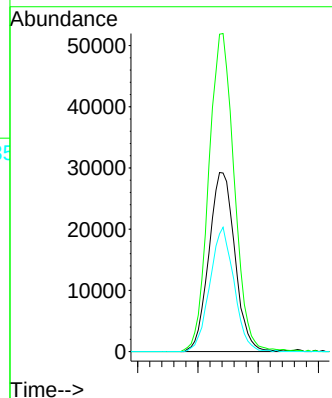
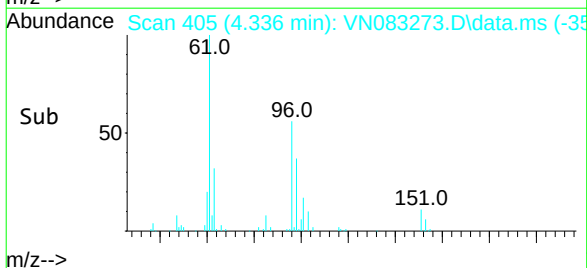
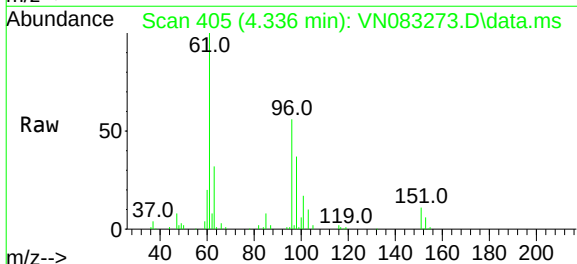
Tgt Ion: 96 Resp: 87675

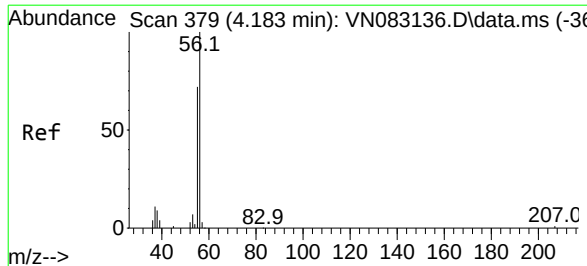
Ion Ratio Lower Upper

96 100

61 177.2 149.7 224.5

98 65.7 50.1 75.1





#13

Acrolein

Concen: 196.931 ug/l

RT: 4.177 min Scan# 379

Delta R.T. -0.006 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 65834

Ion Ratio Lower Upper

56 100

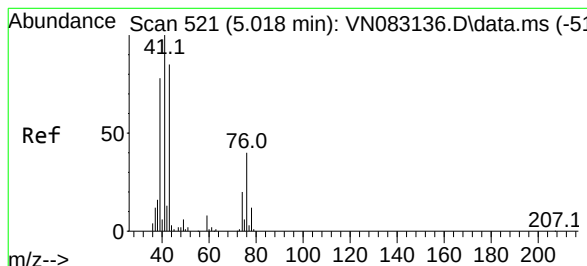
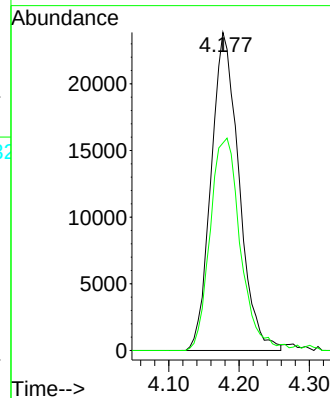
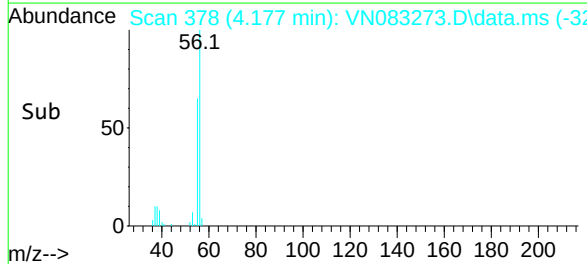
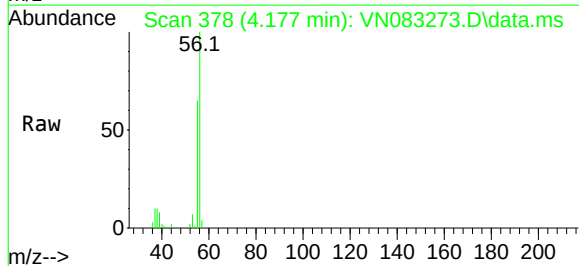
55 72.5 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#14

Allyl chloride

Concen: 40.064 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

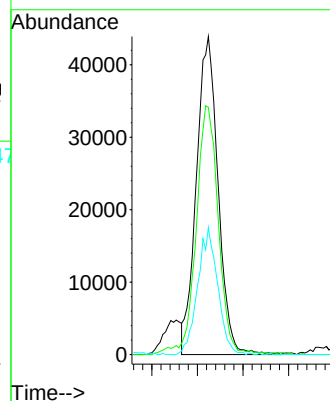
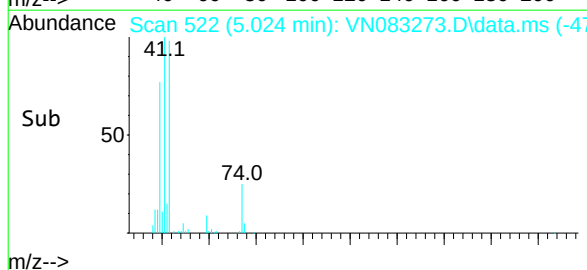
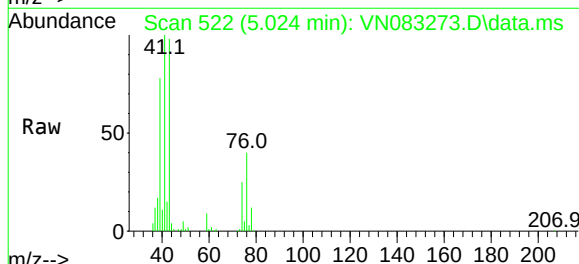
Tgt Ion: 41 Resp: 145530

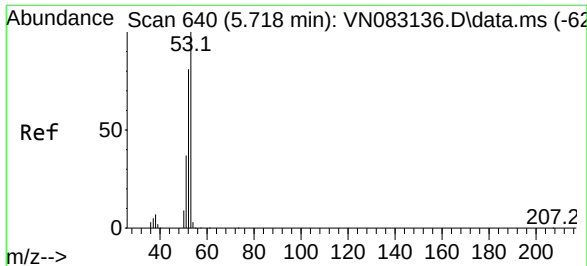
Ion Ratio Lower Upper

41 100

39 79.9 67.8 101.6

76 36.7 25.8 38.8





#15

Acrylonitrile

Concen: 234.853 ug/l

RT: 5.718 min Scan# 640

Delta R.T. 0.000 min

Lab File: VN083273.D

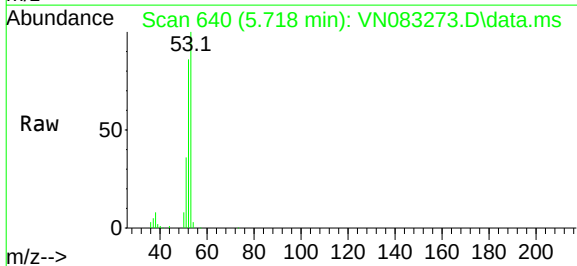
Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050



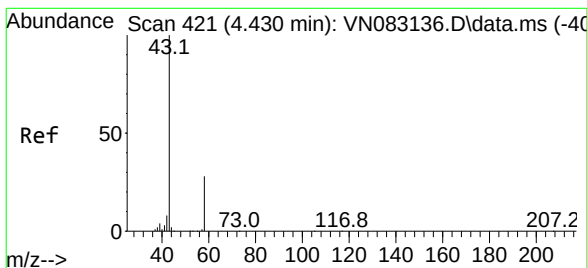
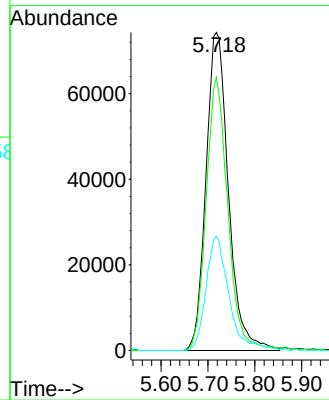
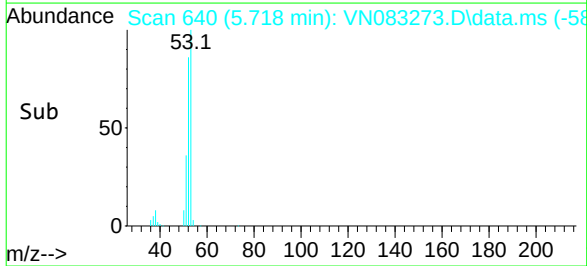
Tgt Ion:	53	Resp:	247750
Ion	Ratio	Lower	Upper
53	100		
52	82.1	66.6	100.0
51	36.5	30.1	45.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#16

Acetone

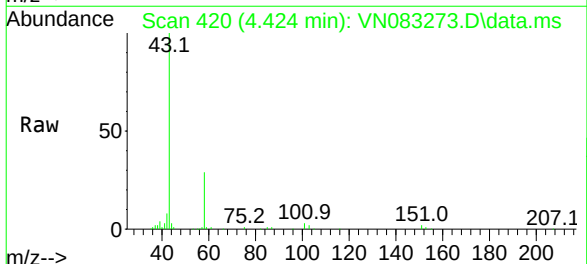
Concen: 212.343 ug/l

RT: 4.424 min Scan# 420

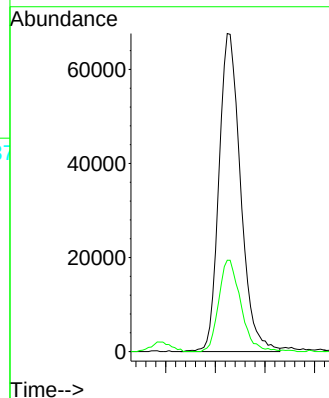
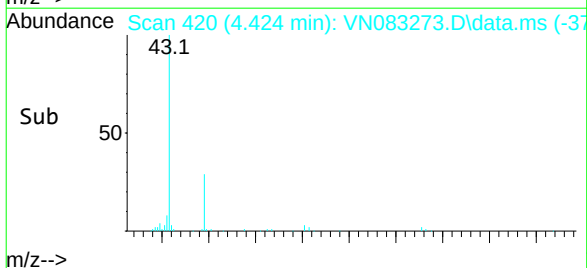
Delta R.T. -0.006 min

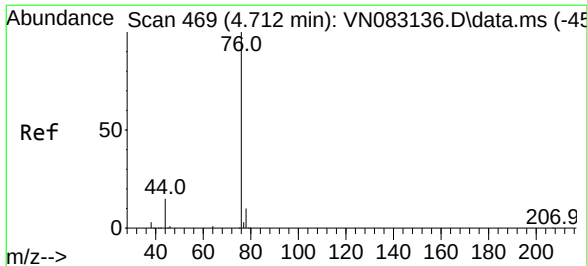
Lab File: VN083273.D

Acq: 14 Aug 2024 02:14



Tgt Ion:	43	Resp:	205078
Ion	Ratio	Lower	Upper
43	100		
58	28.4	21.8	32.6





#17

Carbon Disulfide

Concen: 40.556 ug/l

RT: 4.706 min Scan# 46

Delta R.T. -0.006 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 228102

Ion Ratio Lower Upper

76 100

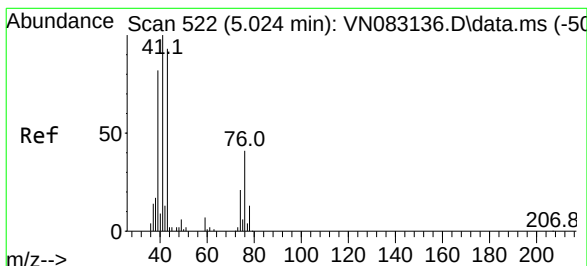
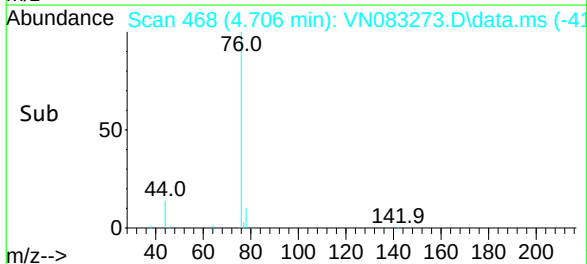
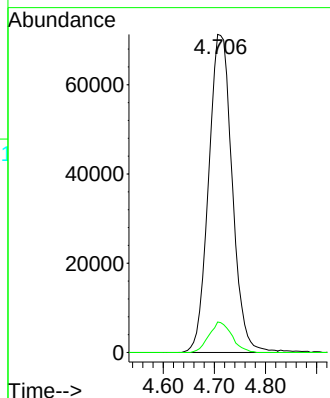
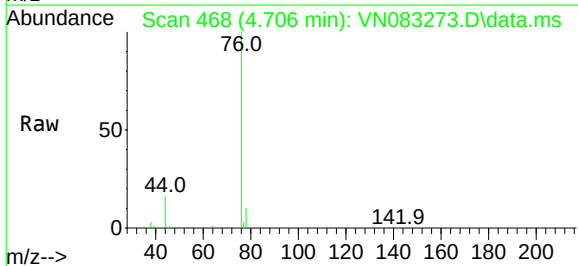
78 9.6 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#18

Methyl Acetate

Concen: 48.682 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.000 min

Lab File: VN083273.D

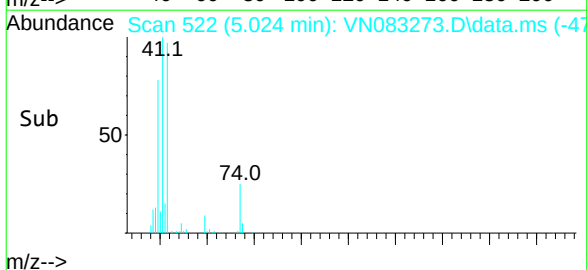
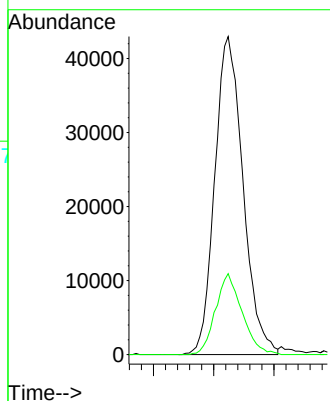
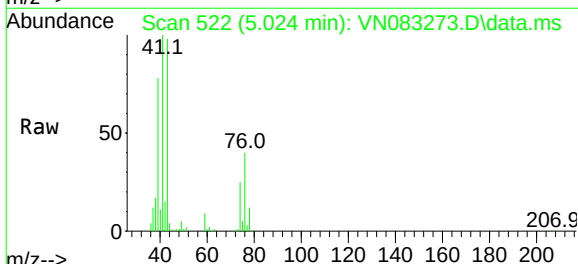
Acq: 14 Aug 2024 02:14

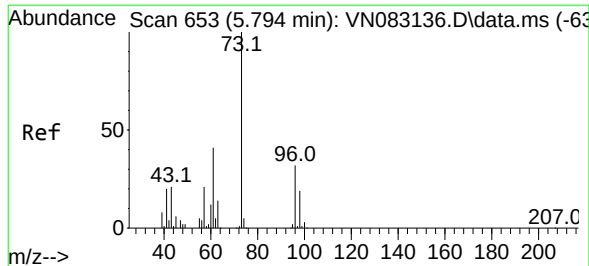
Tgt Ion: 43 Resp: 140082

Ion Ratio Lower Upper

43 100

74 23.9 16.3 24.5





#19

Methyl tert-butyl Ether

Concen: 48.527 ug/l

RT: 5.795 min Scan# 65

Delta R.T. 0.000 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 73 Resp: 336684

Ion Ratio Lower Upper

73 100

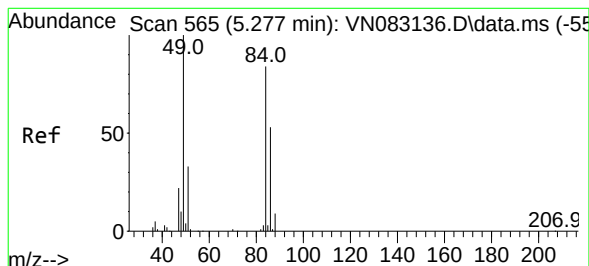
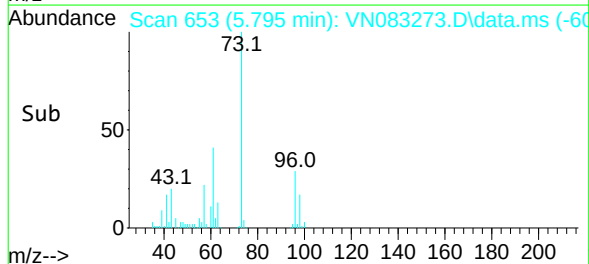
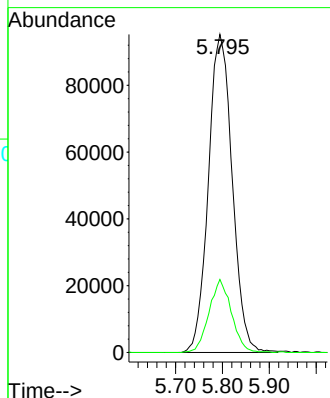
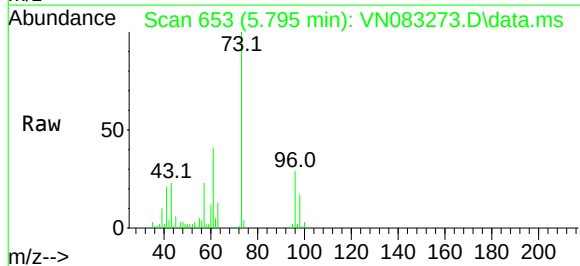
57 23.0 17.9 26.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#20

Methylene Chloride

Concen: 45.431 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.000 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

Tgt Ion: 84 Resp: 100981

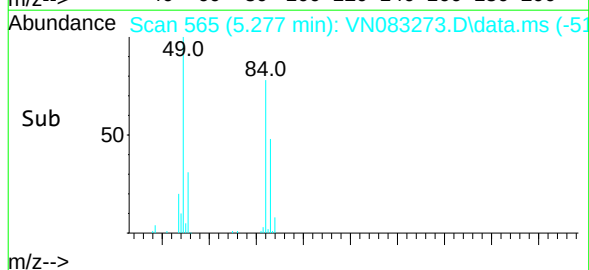
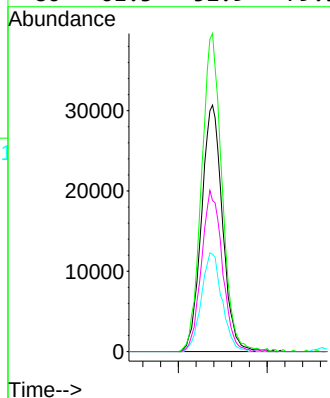
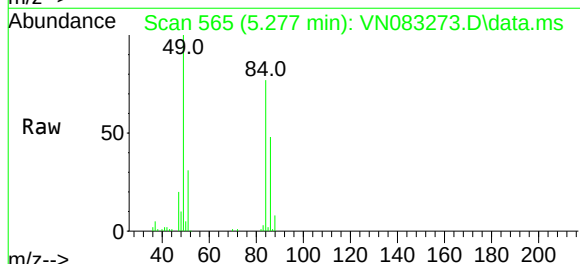
Ion Ratio Lower Upper

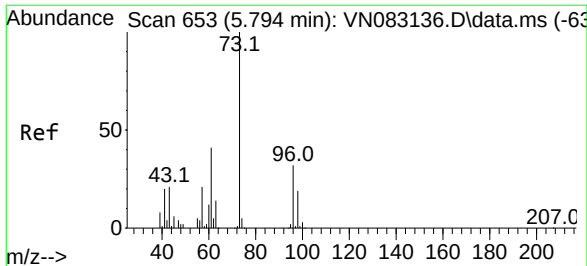
84 100

49 129.0 119.6 179.4

51 39.5 34.8 52.2

86 61.3 52.9 79.3





#21

trans-1,2-Dichloroethene

Concen: 46.698 ug/l

RT: 5.783 min Scan# 65

Delta R.T. -0.012 min

Lab File: VN083273.D

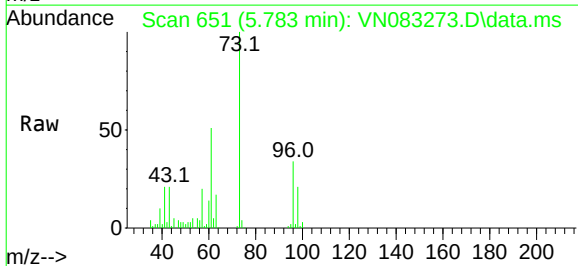
Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050



Tgt Ion: 96 Resp: 92774

Ion Ratio Lower Upper

96 100

61 147.7 123.4 185.2

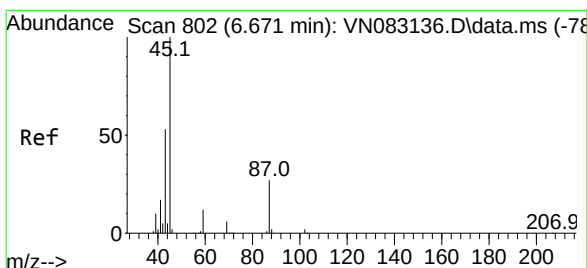
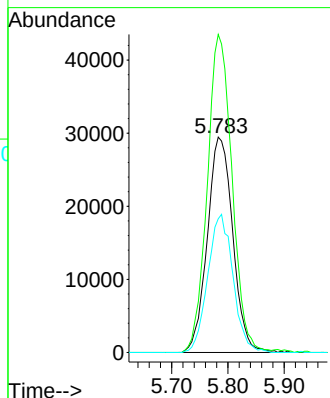
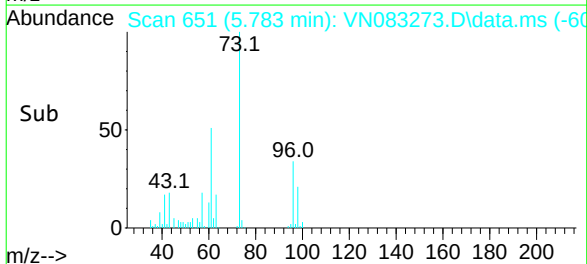
98 62.1 49.3 73.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#22

Diisopropyl ether

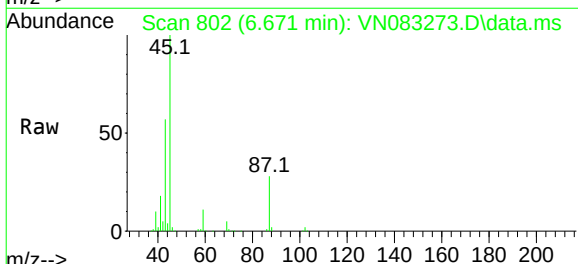
Concen: 50.559 ug/l

RT: 6.671 min Scan# 802

Delta R.T. 0.000 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14



Tgt Ion: 45 Resp: 345219

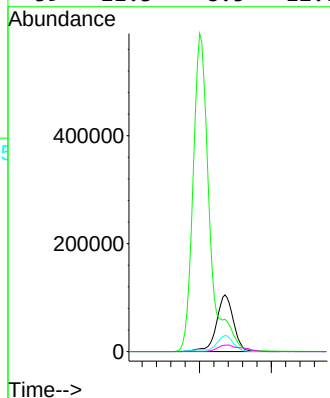
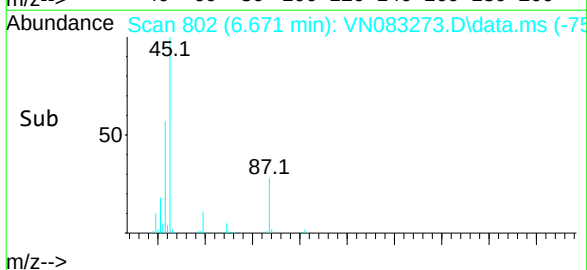
Ion Ratio Lower Upper

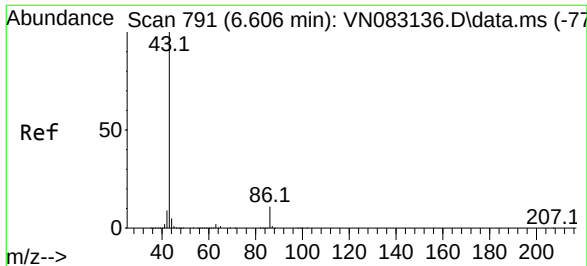
45 100

43 56.3 44.0 66.0

87 28.3 19.7 29.5

59 11.3 8.5 12.7





#23

Vinyl Acetate

Concen: 245.427 ug/l m

RT: 6.600 min Scan# 791

Delta R.T. -0.006 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 1717642

Ion Ratio Lower Upper

43 100

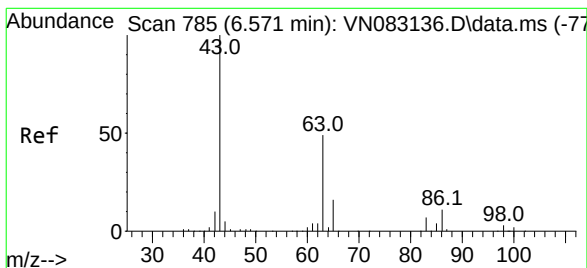
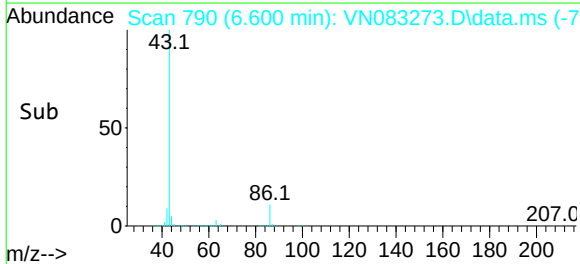
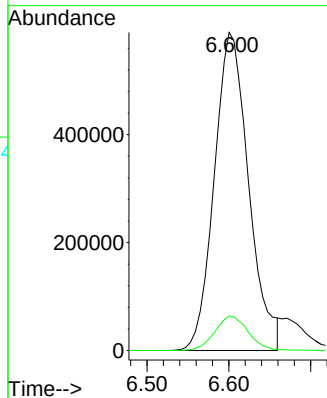
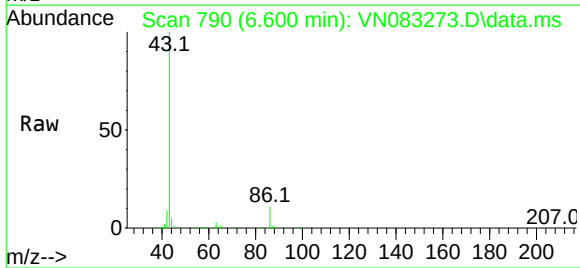
86 10.8 7.3 10.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#24

1,1-Dichloroethane

Concen: 50.042 ug/l

RT: 6.565 min Scan# 784

Delta R.T. -0.006 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

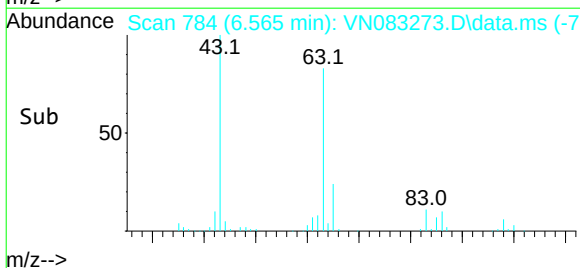
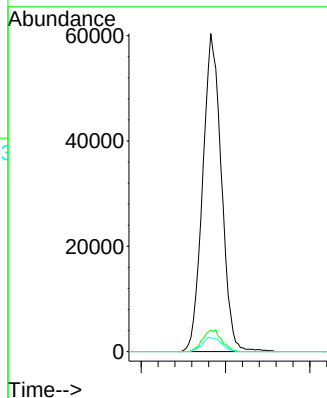
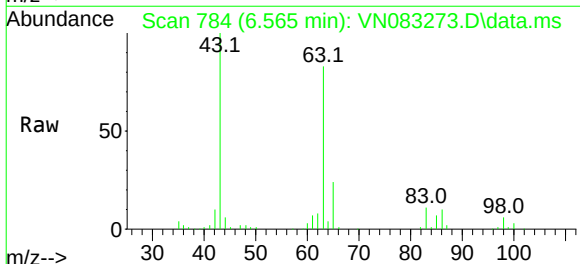
Tgt Ion: 63 Resp: 186243

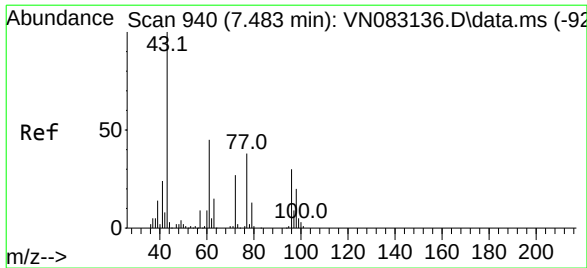
Ion Ratio Lower Upper

63 100

98 6.7 3.3 9.9

100 4.2 2.0 6.0





#25

2-Butanone

Concen: 226.614 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 336054

Ion Ratio Lower Upper

43 100

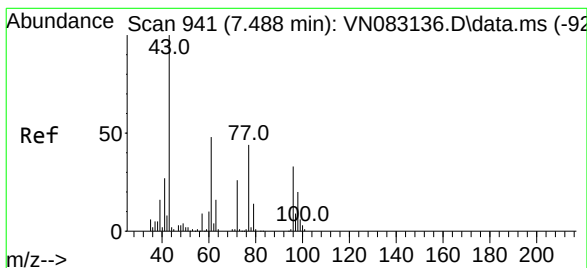
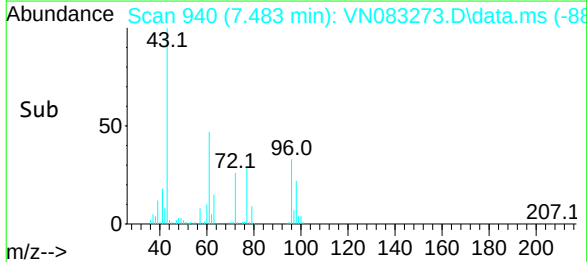
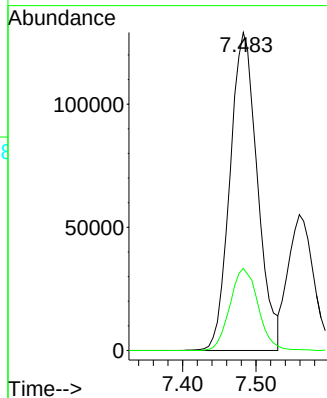
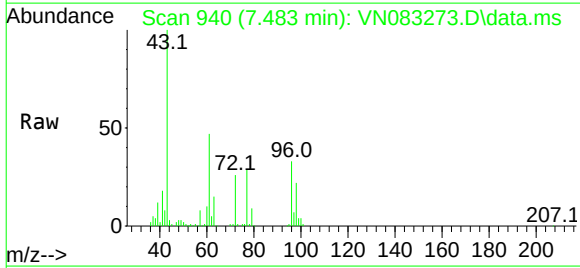
72 25.8 18.2 27.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#26

2,2-Dichloropropane

Concen: 33.474 ug/l

RT: 7.489 min Scan# 941

Delta R.T. 0.000 min

Lab File: VN083273.D

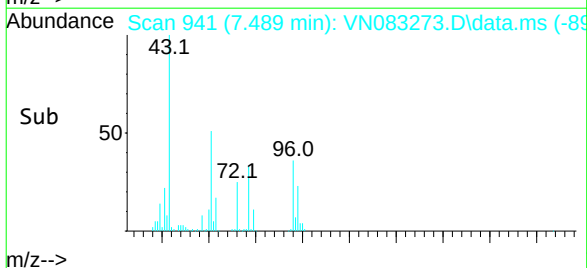
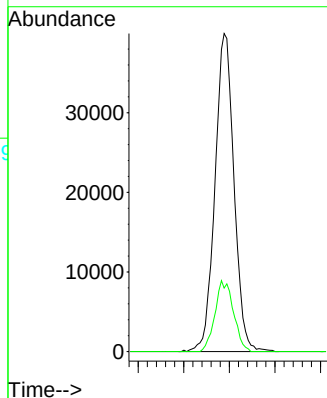
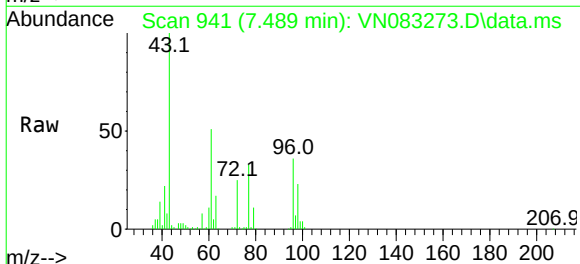
Acq: 14 Aug 2024 02:14

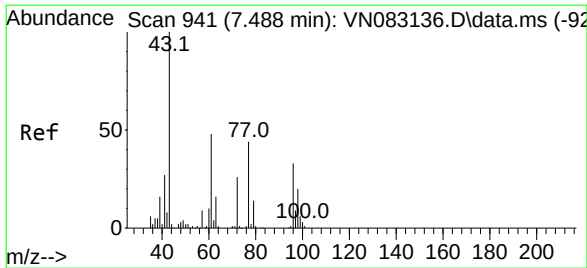
Tgt Ion: 77 Resp: 115695

Ion Ratio Lower Upper

77 100

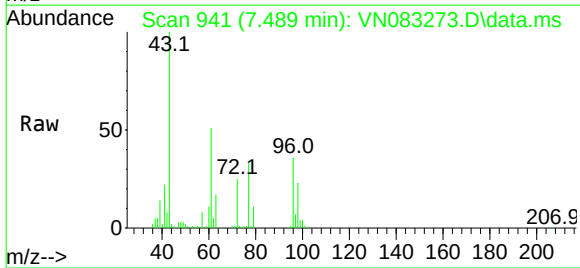
97 21.7 10.3 30.9





#27
cis-1,2-Dichloroethene
Concen: 48.436 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

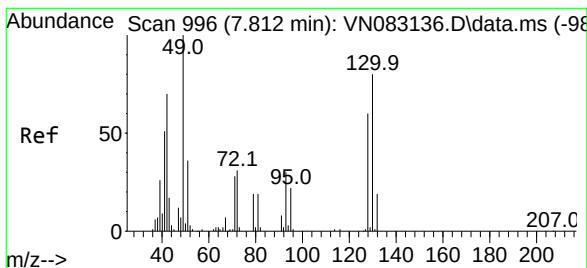
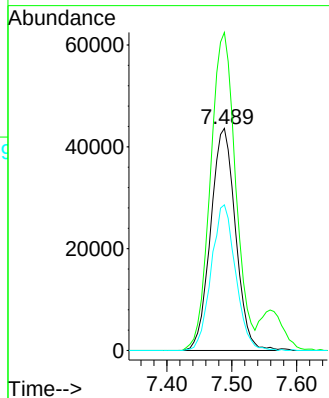
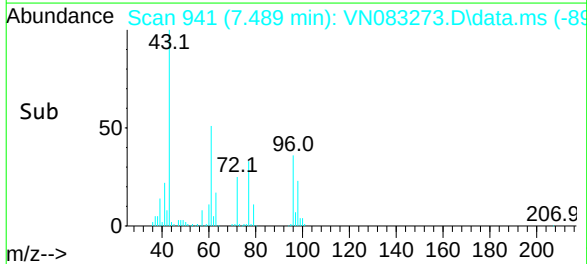
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 96 Resp: 116118
Ion Ratio Lower Upper
96 100
61 145.0 0.0 329.6
98 64.4 0.0 128.6

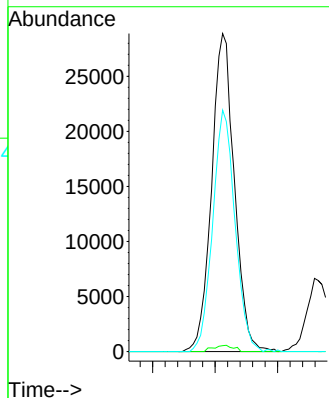
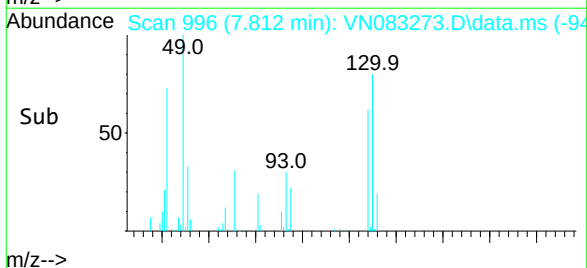
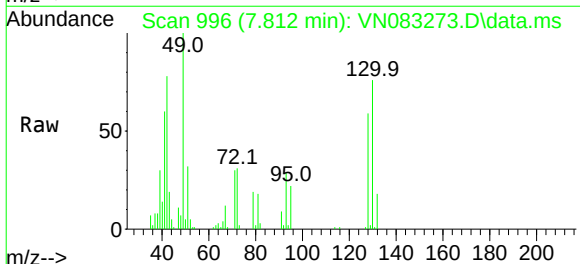
Manual Integrations
APPROVED

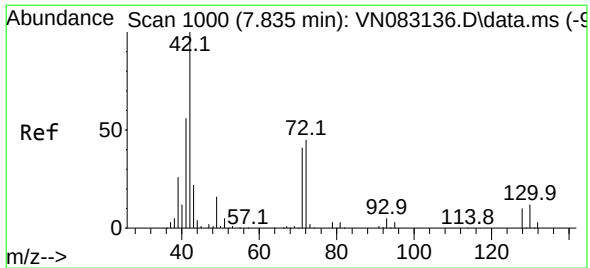
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#28
Bromochloromethane
Concen: 48.079 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 49 Resp: 73126
Ion Ratio Lower Upper
49 100
129 1.8 0.0 3.8
130 74.2 50.5 75.7





#29

Tetrahydrofuran

Concen: 231.937 ug/l

RT: 7.841 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 42 Resp: 222339

Ion Ratio Lower Upper

42 100

72 44.7 30.0 45.0

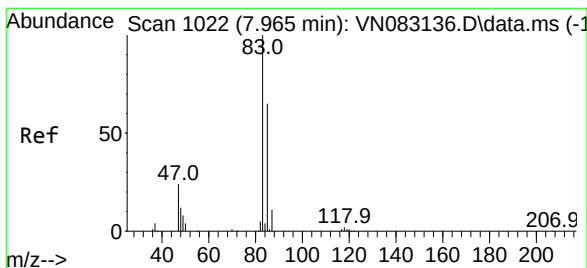
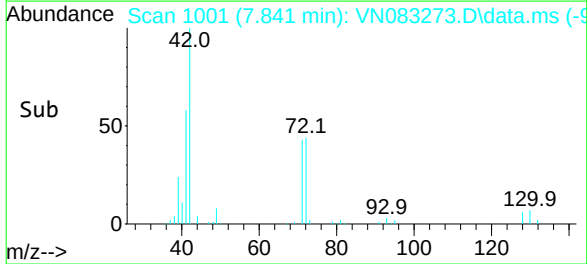
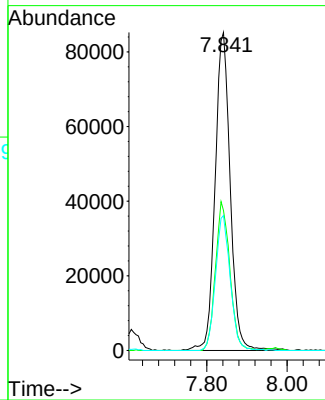
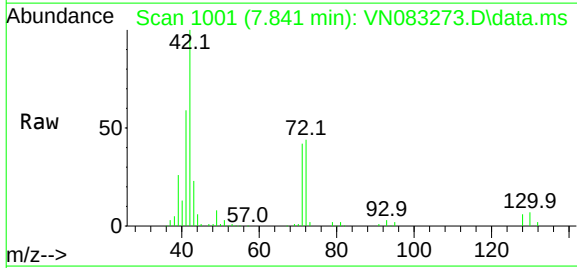
71 41.5 28.3 42.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#30

Chloroform

Concen: 51.757 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.000 min

Lab File: VN083273.D

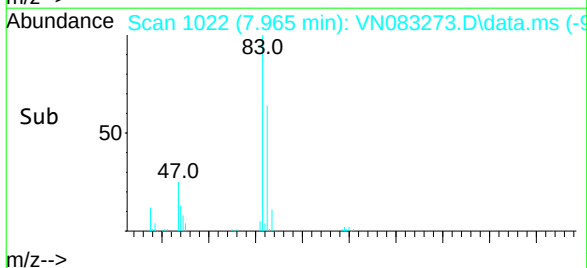
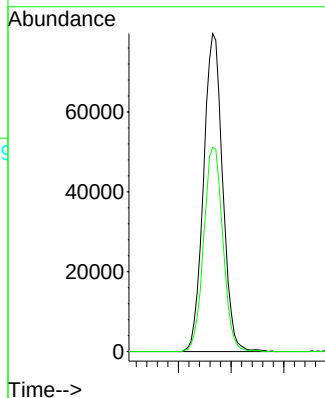
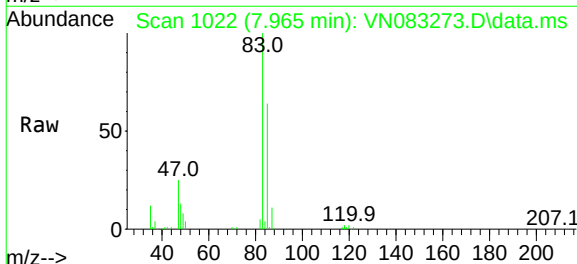
Acq: 14 Aug 2024 02:14

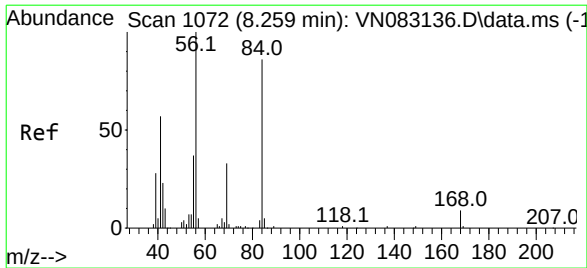
Tgt Ion: 83 Resp: 200122

Ion Ratio Lower Upper

83 100

85 64.2 50.9 76.3





#31

Cyclohexane

Concen: 42.764 ug/l

RT: 8.259 min Scan# 1072

Delta R.T. 0.000 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 156417

Ion Ratio Lower Upper

56 100

69 30.2 24.5 36.7

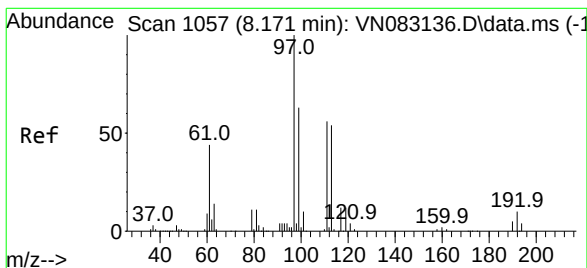
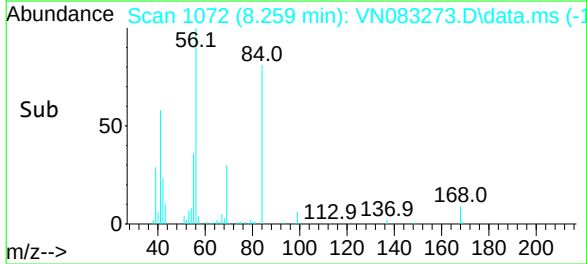
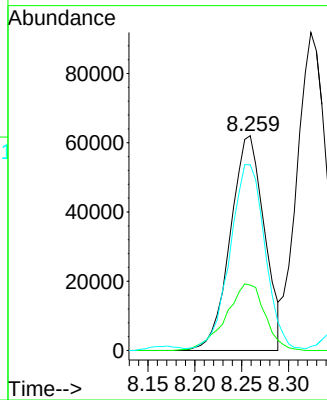
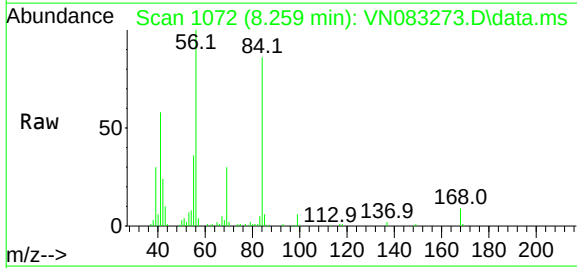
84 85.0 66.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#32

1,1,1-Trichloroethane

Concen: 50.731 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

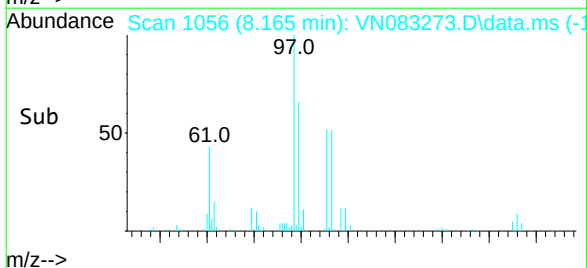
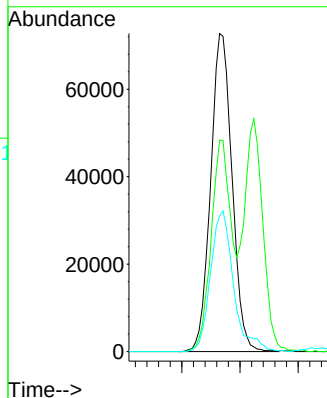
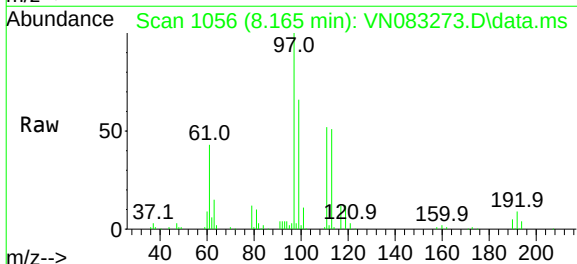
Tgt Ion: 97 Resp: 185672

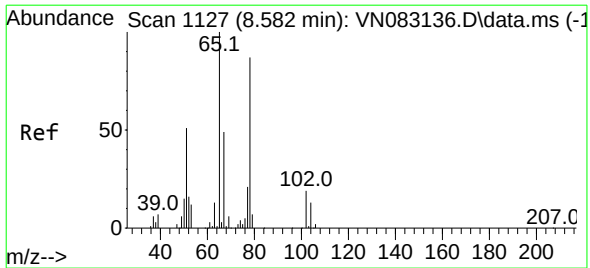
Ion Ratio Lower Upper

97 100

99 63.1 52.0 78.0

61 47.8 42.1 63.1





#33

1,2-Dichloroethane-d4

Concen: 49.638 ug/l

RT: 8.577 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 65 Resp: 122516

Ion Ratio Lower Upper

65 100

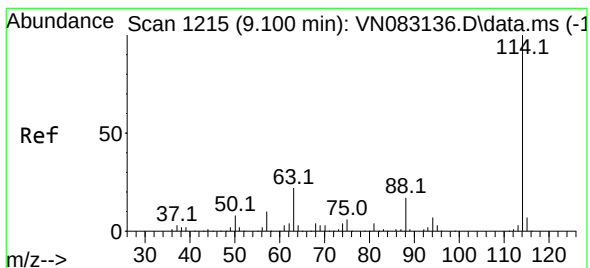
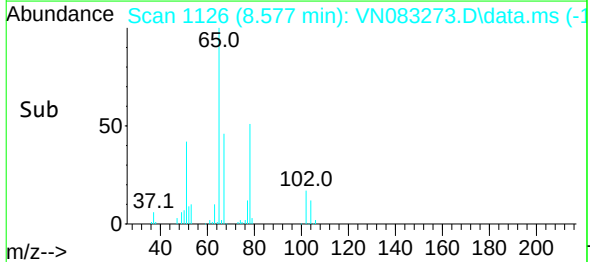
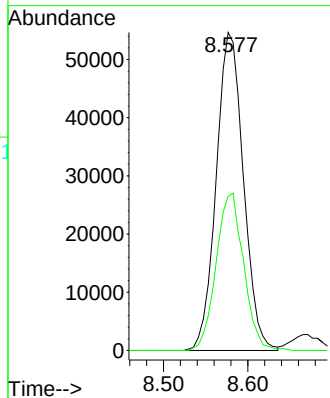
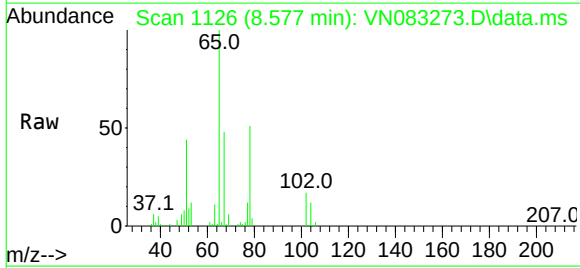
67 50.1 0.0 104.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

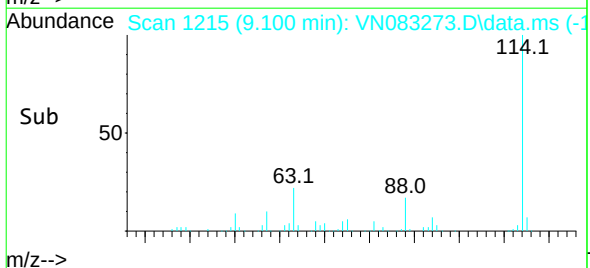
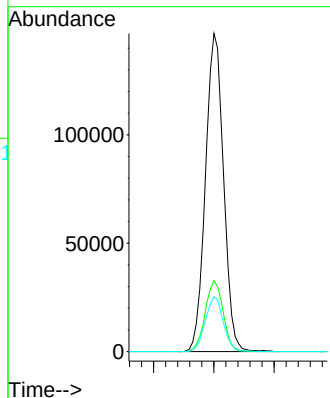
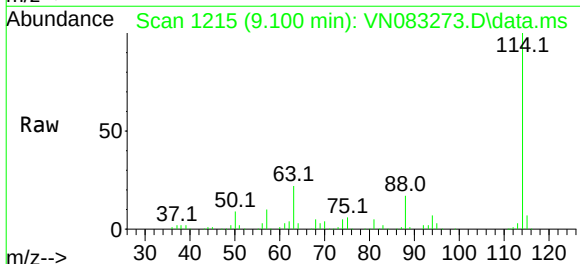
Tgt Ion:114 Resp: 306155

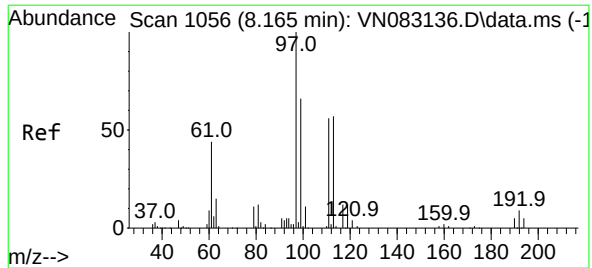
Ion Ratio Lower Upper

114 100

63 22.3 0.0 44.6

88 17.2 0.0 31.4





#35

Dibromofluoromethane

Concen: 47.268 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:113 Resp: 90327

Ion Ratio Lower Upper

113 100

111 104.3 82.4 123.6

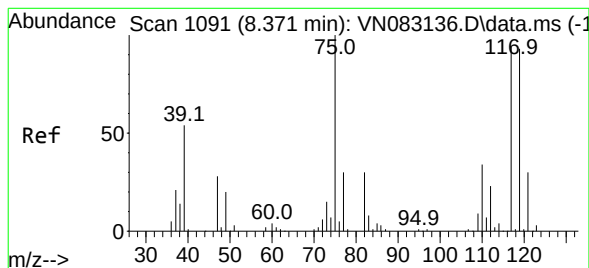
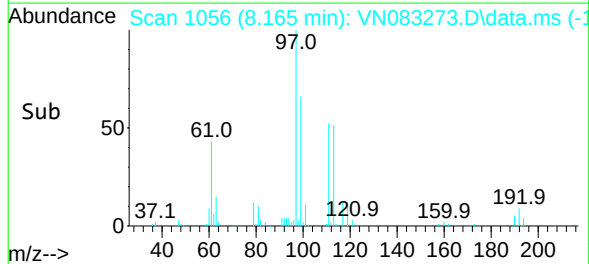
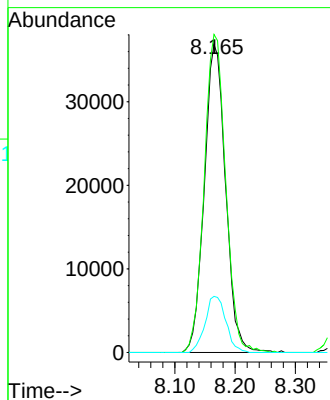
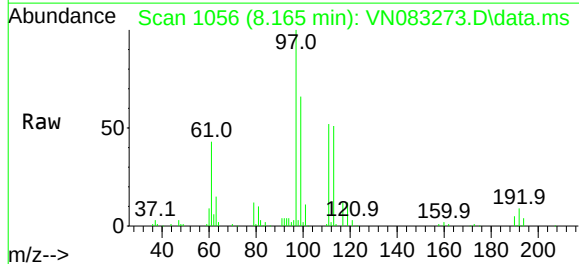
192 17.8 14.9 22.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#36

1,1-Dichloropropene

Concen: 46.925 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.000 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

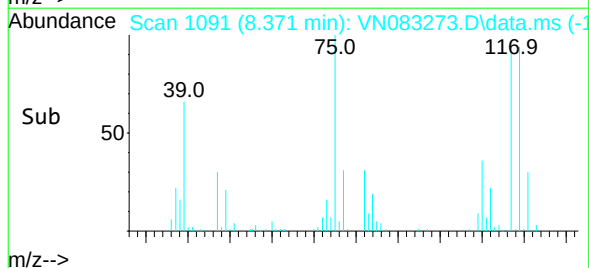
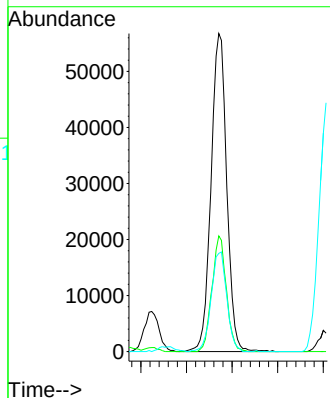
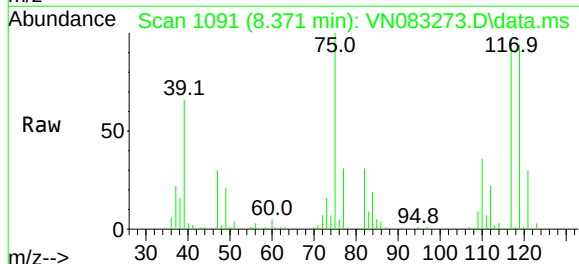
Tgt Ion: 75 Resp: 135648

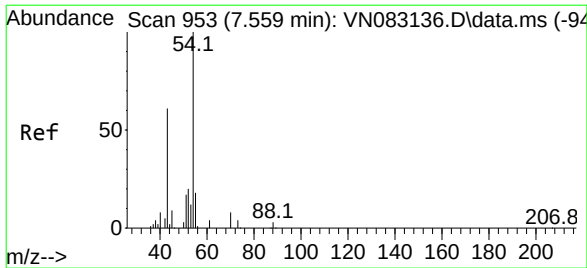
Ion Ratio Lower Upper

75 100

110 33.3 16.3 48.9

77 31.1 24.6 37.0





#37

Ethyl Acetate

Concen: 42.466 ug/l

RT: 7.559 min Scan# 953

Delta R.T. 0.000 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 137449

Ion Ratio Lower Upper

43 100

61 14.5 9.3 13.9#

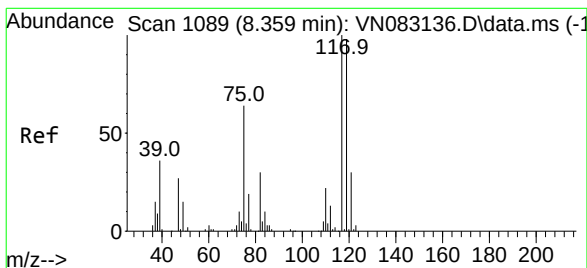
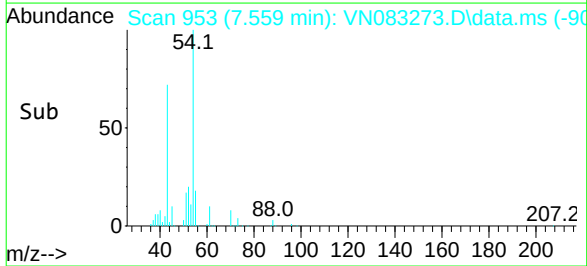
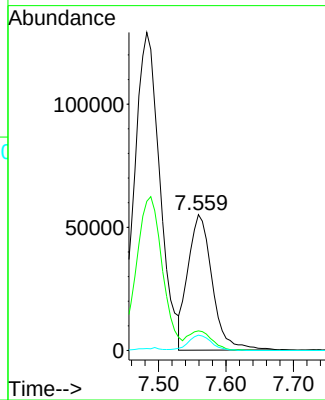
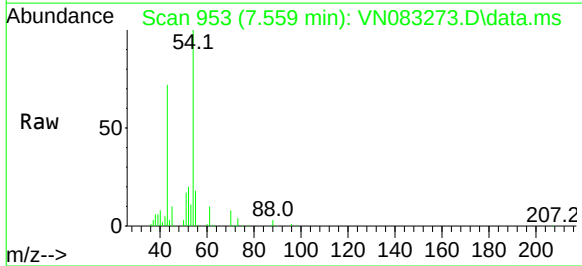
70 10.9 7.0 10.6#

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#38

Carbon Tetrachloride

Concen: 48.876 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. 0.006 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

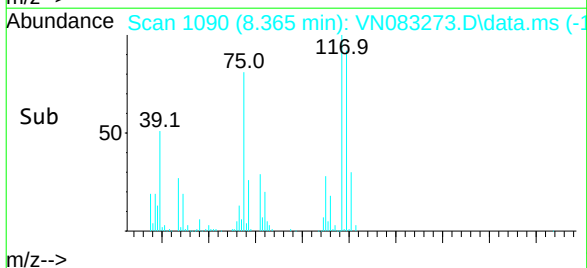
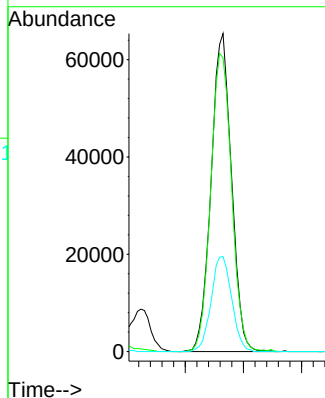
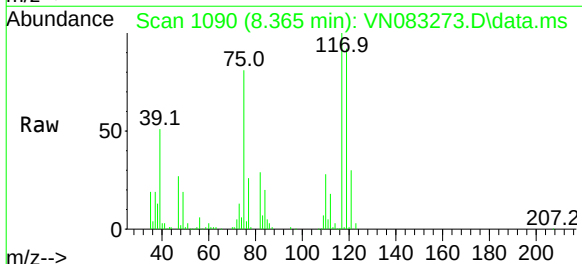
Tgt Ion:117 Resp: 159134

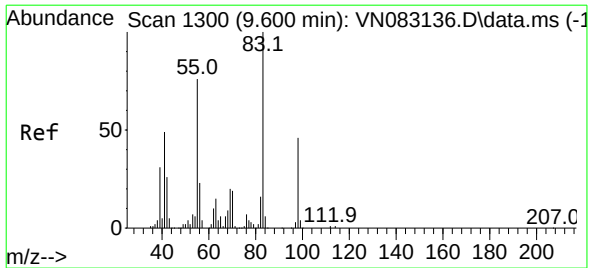
Ion Ratio Lower Upper

117 100

119 92.3 74.9 112.3

121 29.9 24.3 36.5





#39

Methylcyclohexane

Concen: 43.916 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. 0.000 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 155926

Ion Ratio Lower Upper

83 100

55 78.1 66.4 99.6

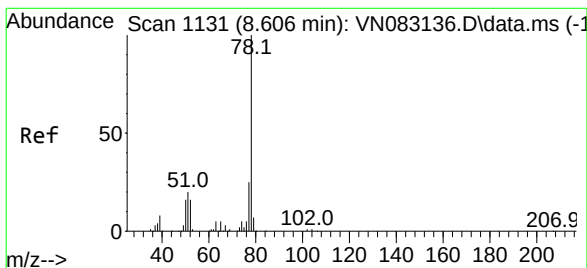
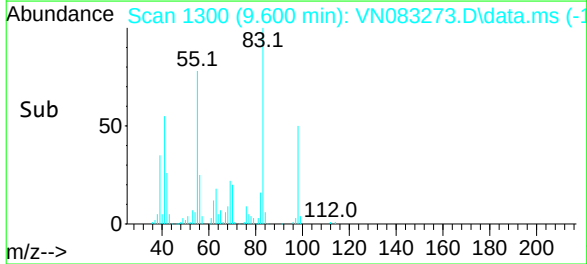
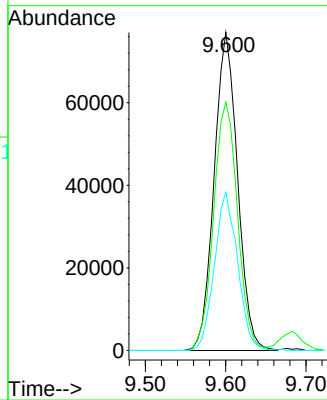
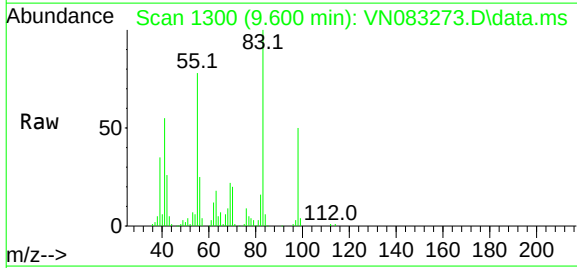
98 49.8 40.7 61.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#40

Benzene

Concen: 48.285 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VN083273.D

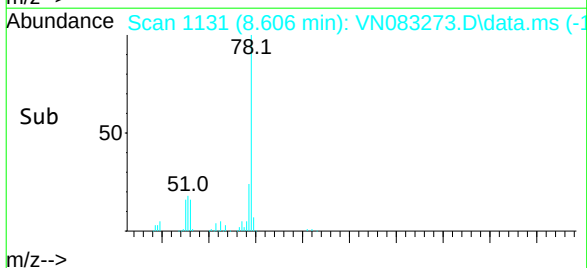
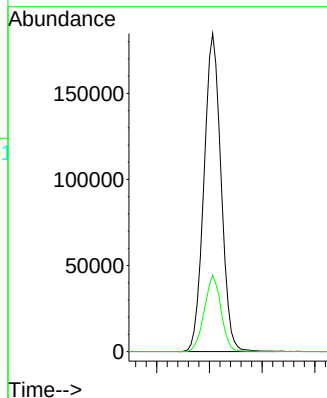
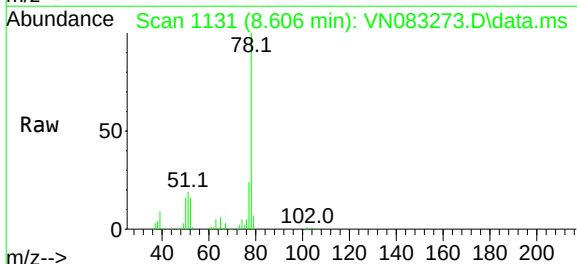
Acq: 14 Aug 2024 02:14

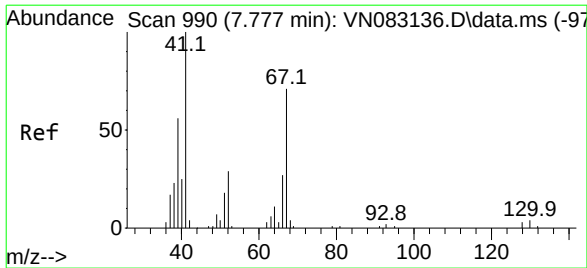
Tgt Ion: 78 Resp: 415815

Ion Ratio Lower Upper

78 100

77 24.0 19.0 28.4





#41

Methacrylonitrile

Concen: 44.240 ug/l

RT: 7.777 min Scan# 990

Delta R.T. 0.000 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 41 Resp: 81416

Ion Ratio Lower Upper

41 100

39 54.9 45.5 68.3

67 70.3 50.5 75.7

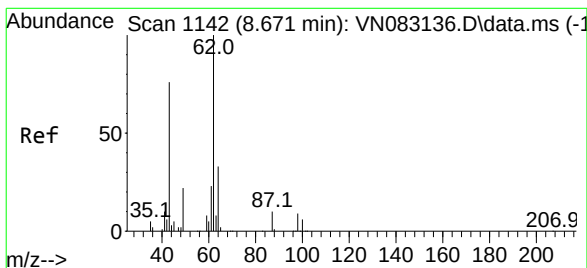
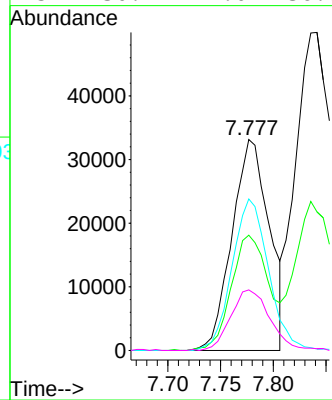
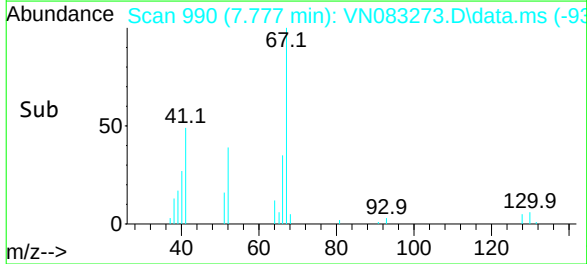
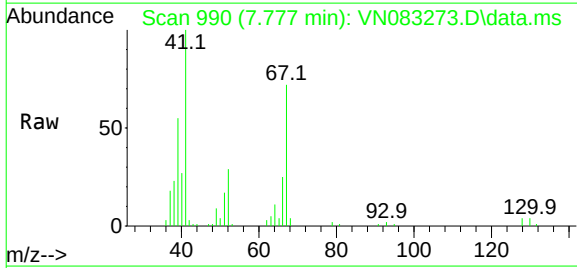
52 30.4 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#42

1,2-Dichloroethane

Concen: 49.978 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. 0.000 min

Lab File: VN083273.D

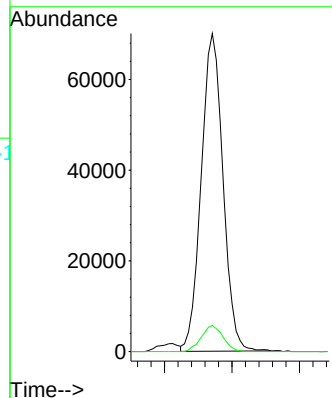
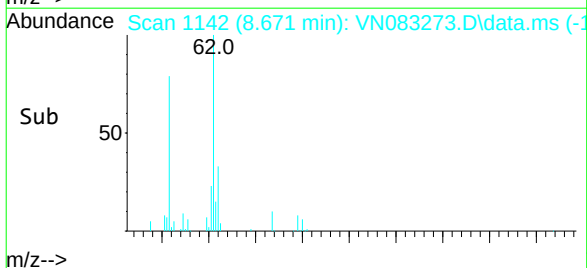
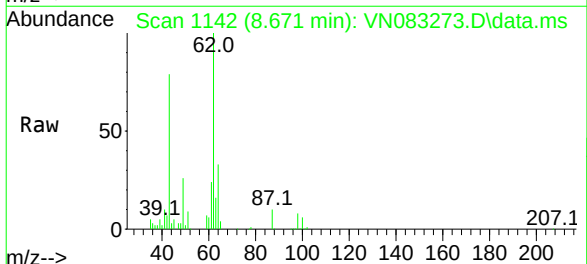
Acq: 14 Aug 2024 02:14

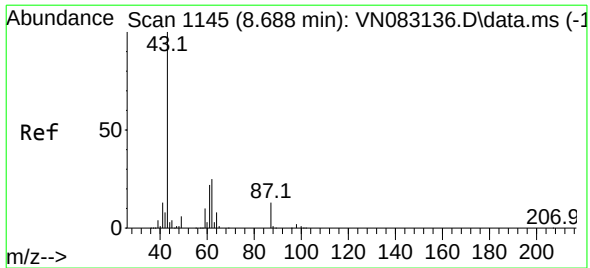
Tgt Ion: 62 Resp: 156783

Ion Ratio Lower Upper

62 100

98 8.2 0.0 15.8





#43

Isopropyl Acetate

Concen: 46.121 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN083273.D

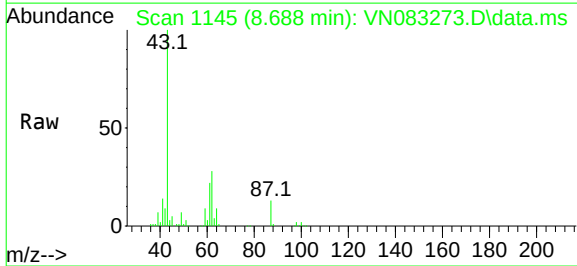
Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050



Tgt Ion: 43 Resp: 260306

Ion Ratio Lower Upper

43 100

61 24.7 17.8 26.6

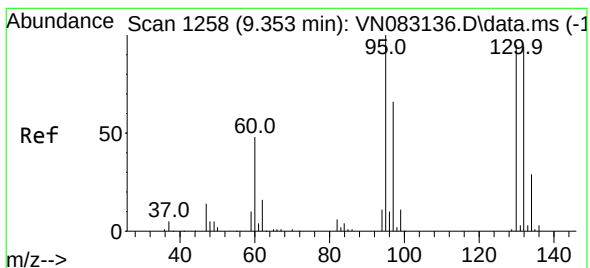
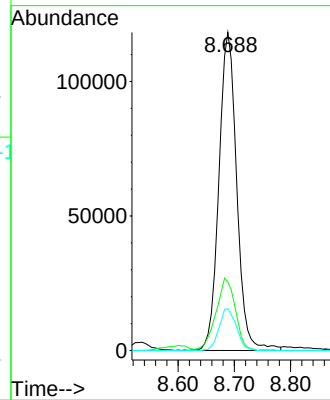
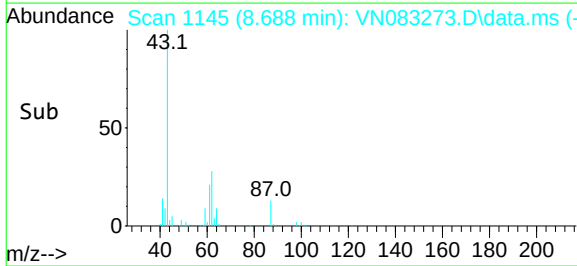
87 12.7 8.2 12.2#

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#44

Trichloroethene

Concen: 48.013 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. 0.000 min

Lab File: VN083273.D

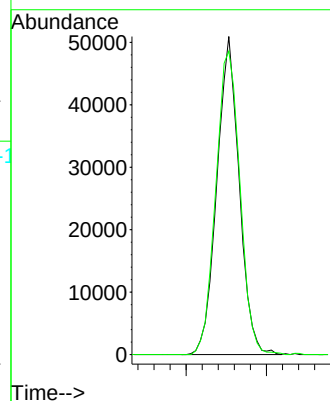
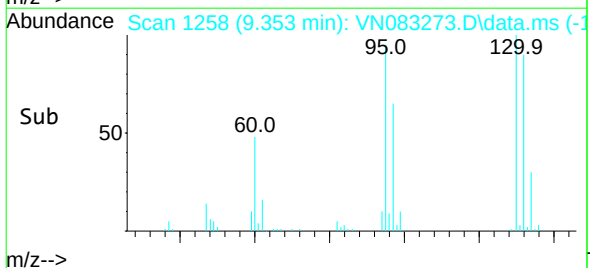
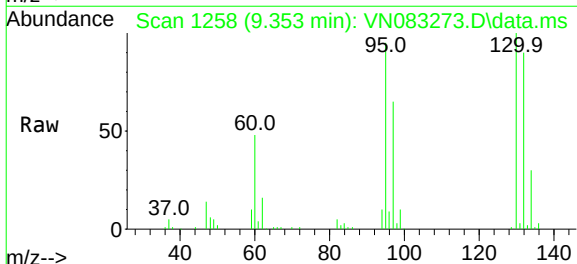
Acq: 14 Aug 2024 02:14

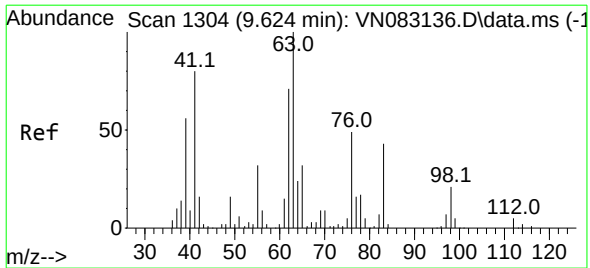
Tgt Ion:130 Resp: 98415

Ion Ratio Lower Upper

130 100

95 95.4 0.0 197.8





#45

1,2-Dichloropropane

Concen: 49.443 ug/l

RT: 9.618 min Scan# 1318

Delta R.T. -0.006 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 63 Resp: 101068

Ion Ratio Lower Upper

63 100

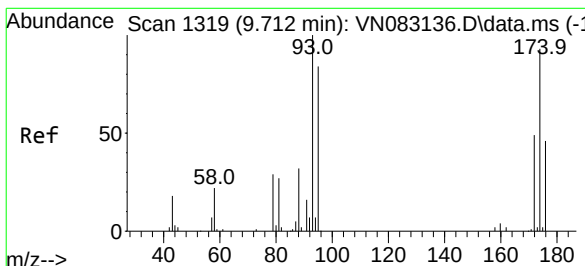
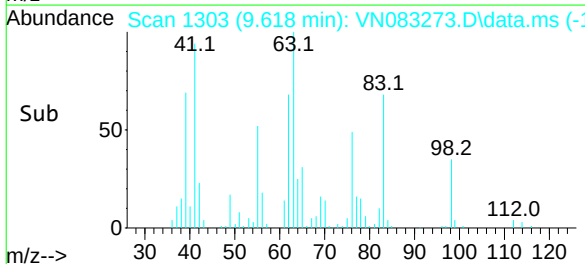
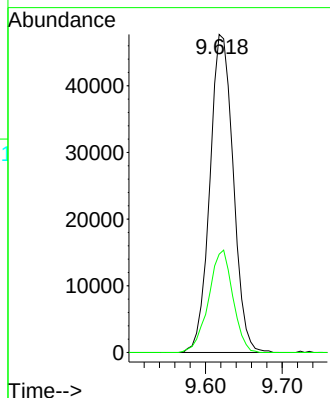
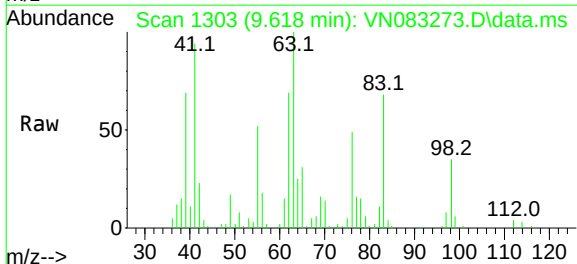
65 30.9 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#46

Dibromomethane

Concen: 50.307 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.006 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

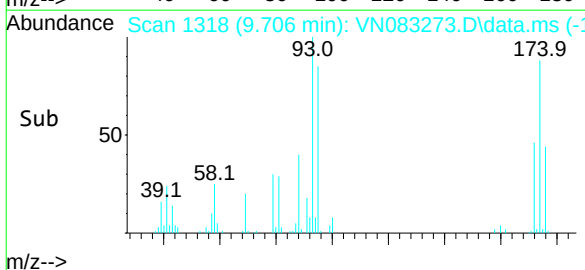
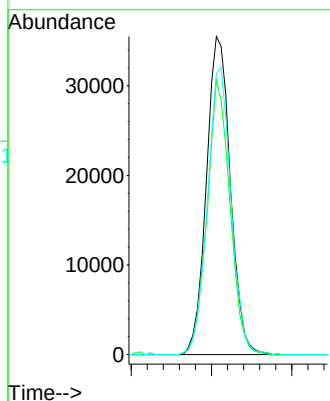
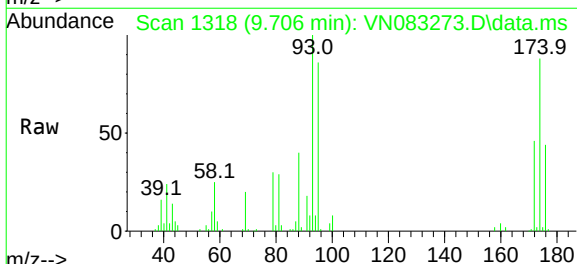
Tgt Ion: 93 Resp: 73606

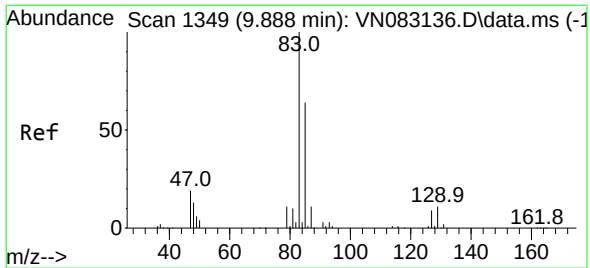
Ion Ratio Lower Upper

93 100

95 82.3 65.8 98.6

174 88.8 71.7 107.5





#47

Bromodichloromethane

Concen: 49.897 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. 0.000 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 163926

Ion Ratio Lower Upper

83 100

85 65.1 51.1 76.7

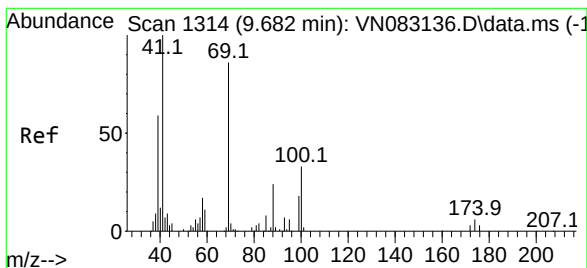
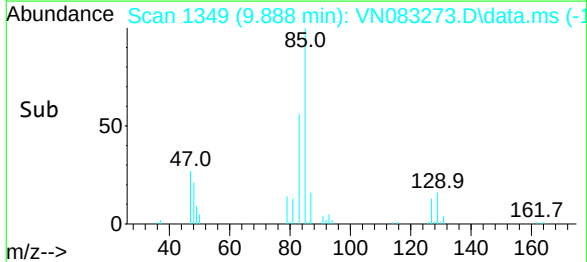
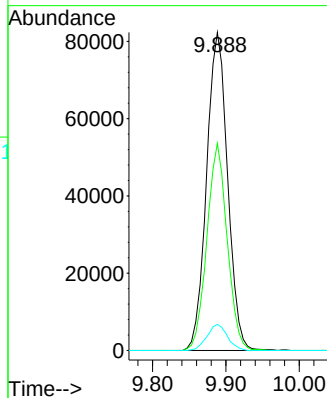
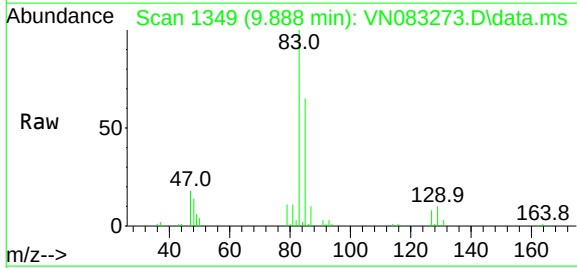
127 8.2 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#48

Methyl methacrylate

Concen: 45.281 ug/l

RT: 9.682 min Scan# 1314

Delta R.T. 0.000 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

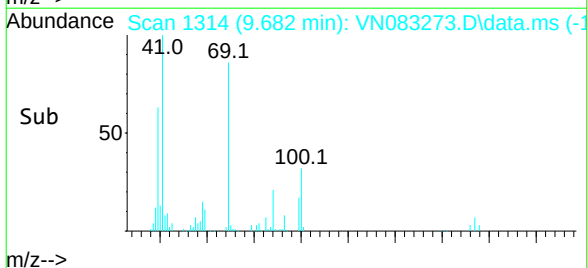
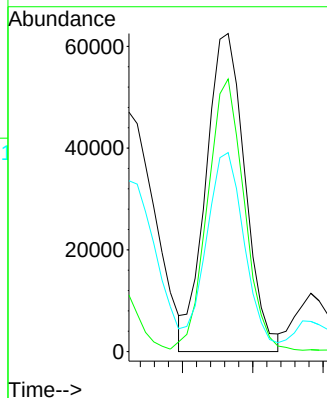
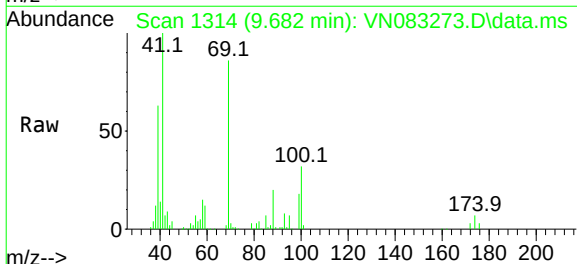
Tgt Ion: 41 Resp: 121167

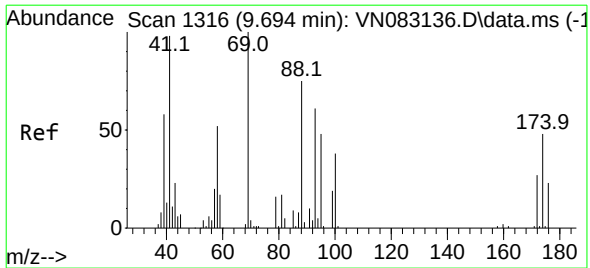
Ion Ratio Lower Upper

41 100

69 81.0 56.3 84.5

39 61.9 50.3 75.5





#49

1,4-Dioxane

Concen: 842.987 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 88 Resp: 40696

Ion Ratio Lower Upper

88 100

43 31.1 27.8 41.8

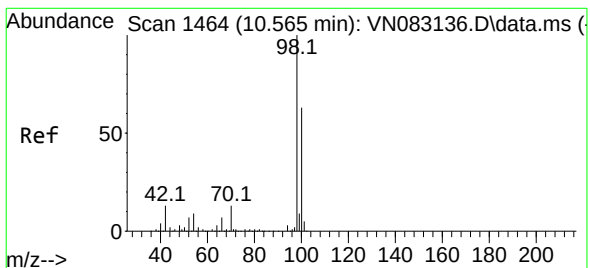
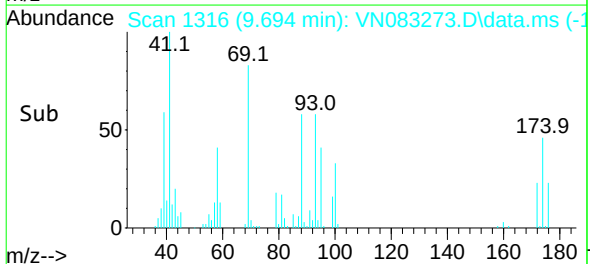
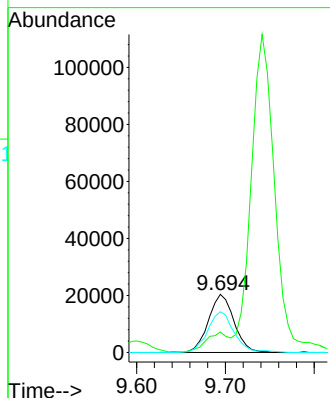
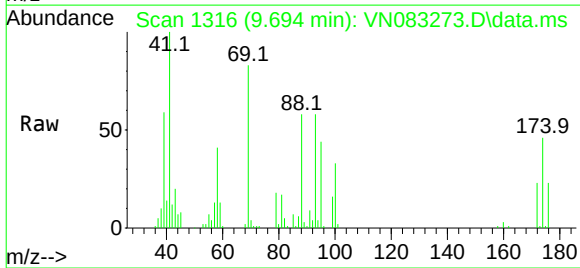
58 72.6 59.4 89.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#50

Toluene-d8

Concen: 47.549 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN083273.D

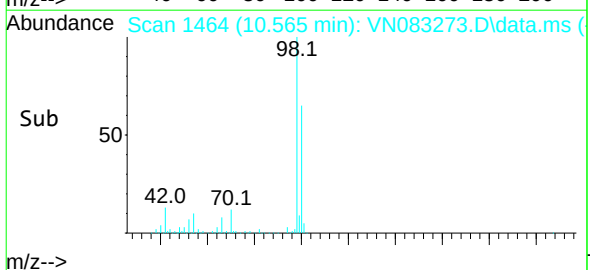
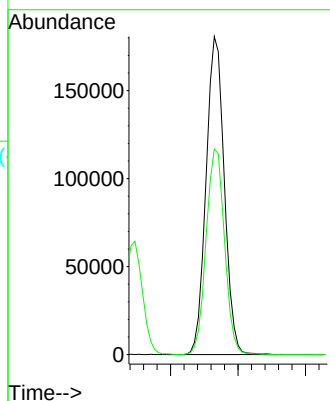
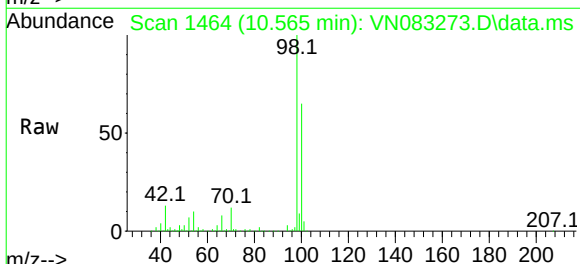
Acq: 14 Aug 2024 02:14

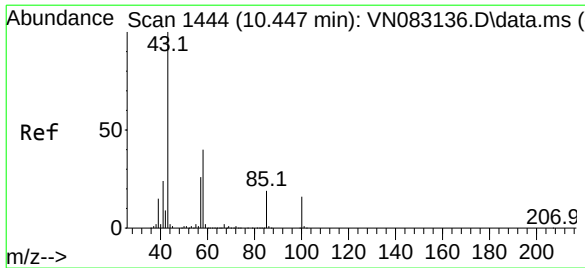
Tgt Ion: 98 Resp: 338943

Ion Ratio Lower Upper

98 100

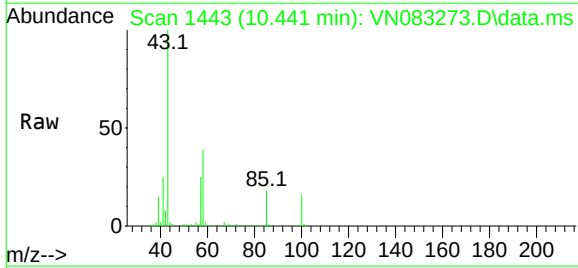
100 65.6 51.5 77.3





#51
4-Methyl-2-Pentanone
Concen: 236.978 ug/l
RT: 10.441 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

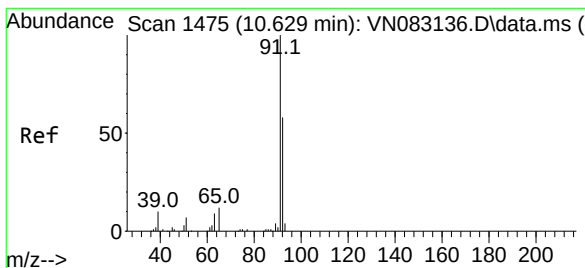
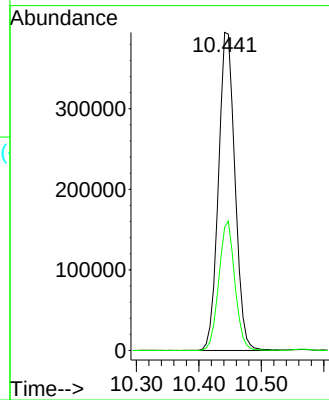
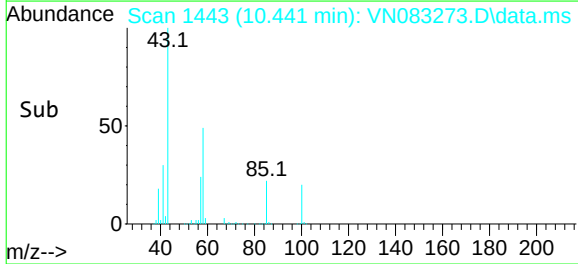
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 43 Resp: 725322
Ion Ratio Lower Upper
43 100
58 39.5 28.2 42.4

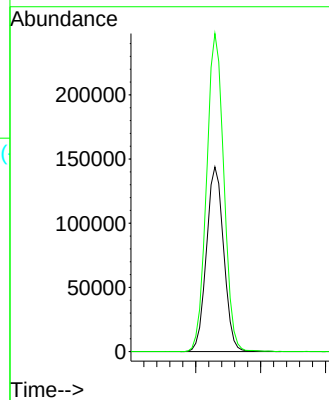
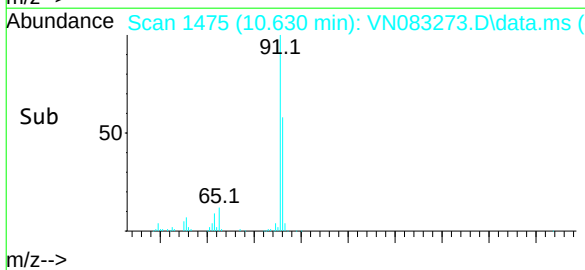
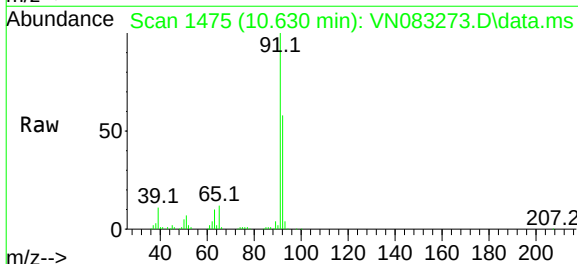
Manual Integrations
APPROVED

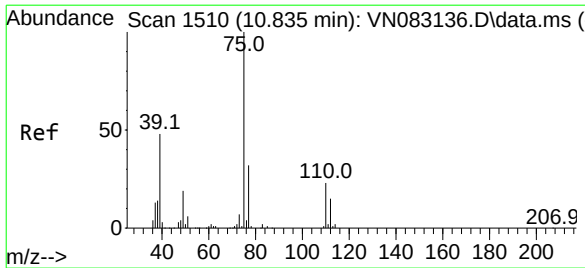
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#52
Toluene
Concen: 48.733 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

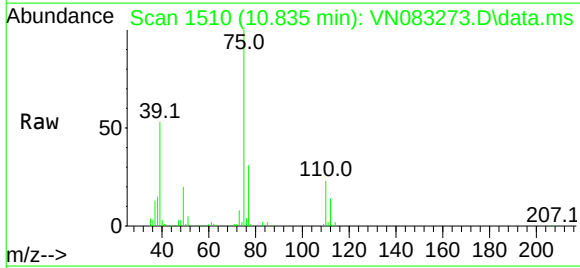
Tgt Ion: 92 Resp: 265163
Ion Ratio Lower Upper
92 100
91 172.6 139.4 209.0





#53
t-1,3-Dichloropropene
Concen: 46.629 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

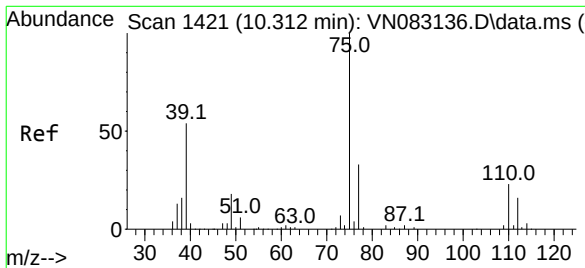
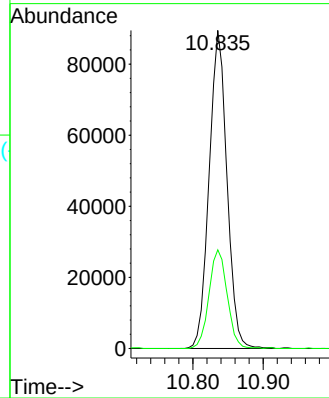
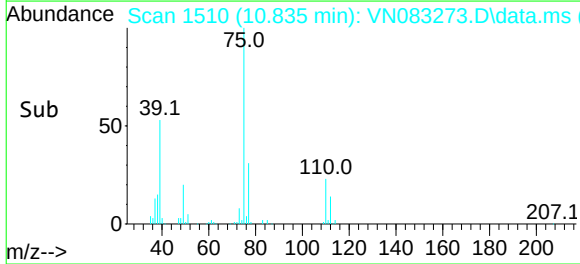
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 75 Resp: 157356
Ion Ratio Lower Upper
75 100
77 31.0 25.7 38.5

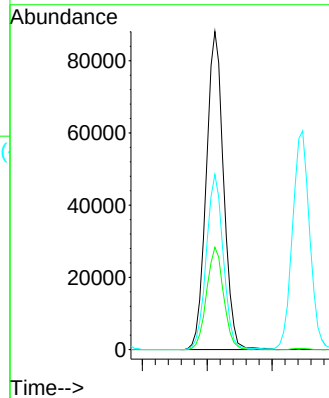
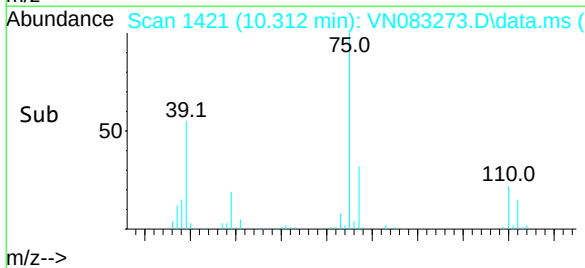
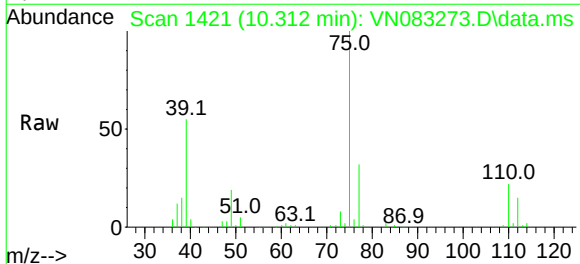
Manual Integrations
APPROVED

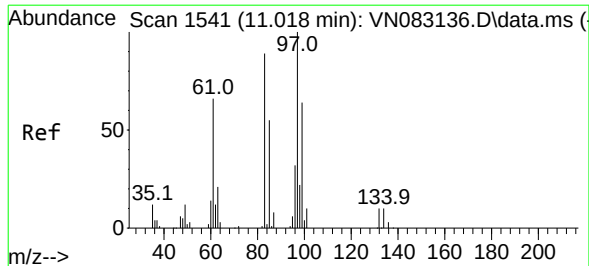
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#54
cis-1,3-Dichloropropene
Concen: 45.600 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 75 Resp: 163678
Ion Ratio Lower Upper
75 100
77 32.2 24.3 36.5
39 55.1 50.5 75.7





#55

1,1,2-Trichloroethane

Concen: 50.194 ug/l

RT: 11.018 min Scan# 1541

Delta R.T. 0.000 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 97 Resp: 97875

Ion Ratio Lower Upper

97 100

83 86.7 71.4 107.0

85 57.5 45.8 68.6

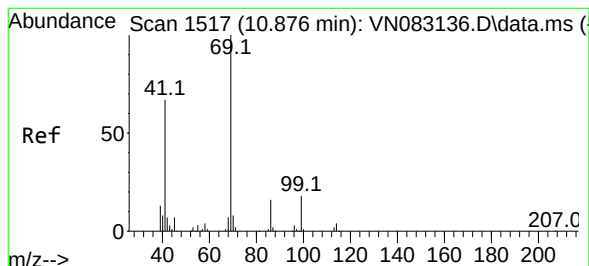
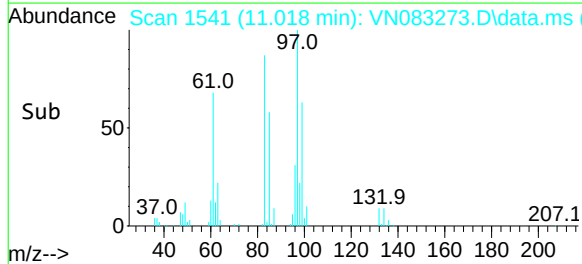
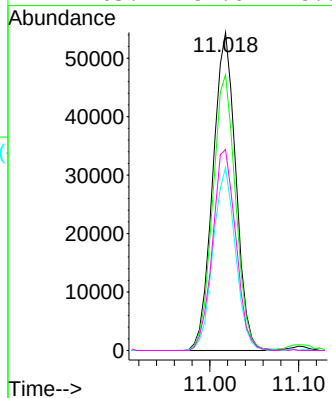
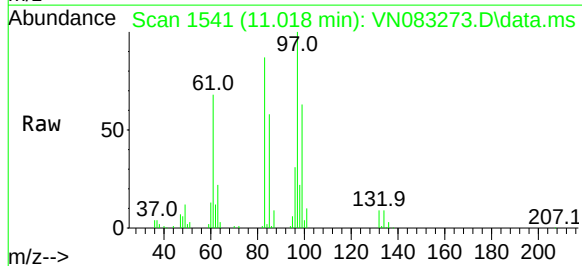
99 63.2 52.0 78.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#56

Ethyl methacrylate

Concen: 47.798 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.006 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

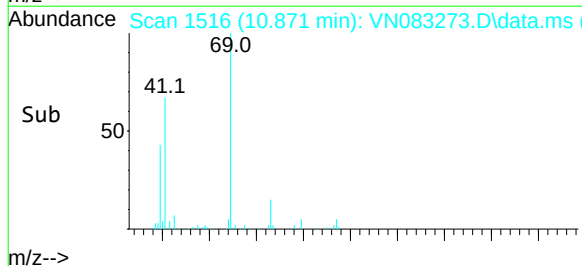
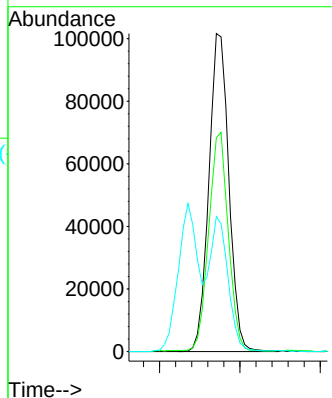
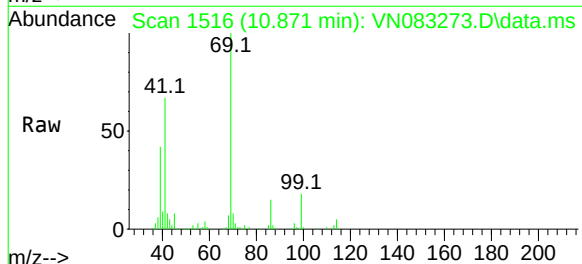
Tgt Ion: 69 Resp: 175704

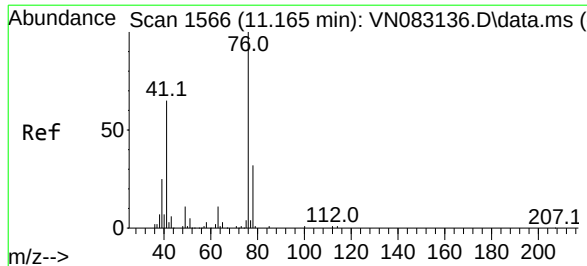
Ion Ratio Lower Upper

69 100

41 67.4 63.4 95.2

39 39.9 37.4 56.0





#57

1,3-Dichloropropane

Concen: 50.099 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. 0.000 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 174124

Ion Ratio Lower Upper

76 100

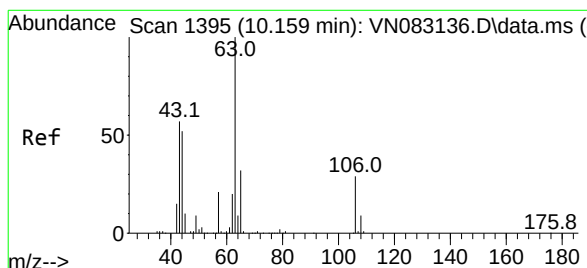
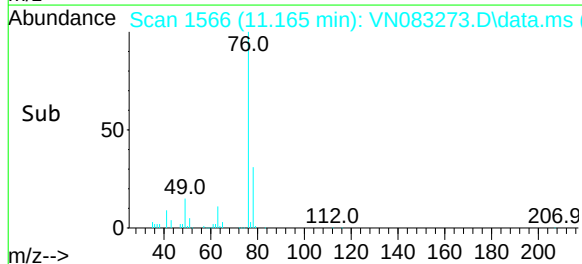
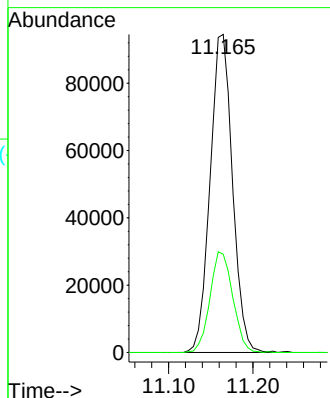
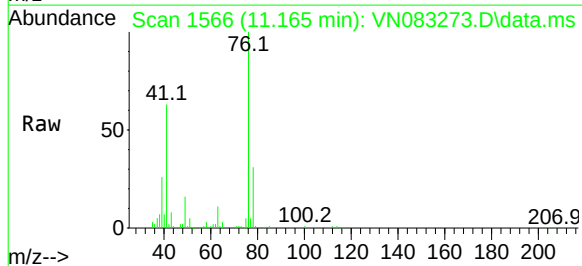
78 32.3 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#58

2-Chloroethyl Vinyl ether

Concen: 239.532 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN083273.D

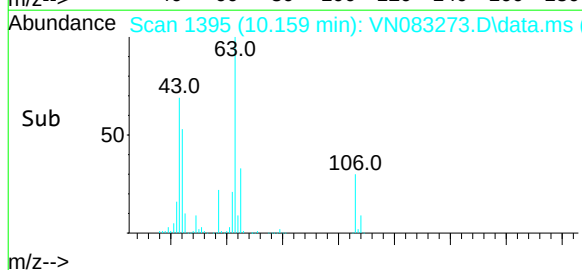
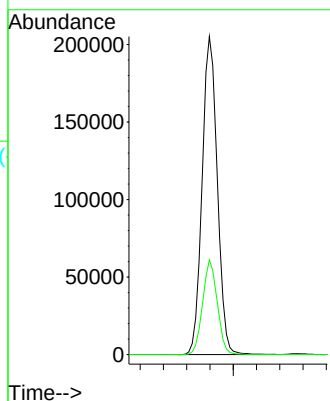
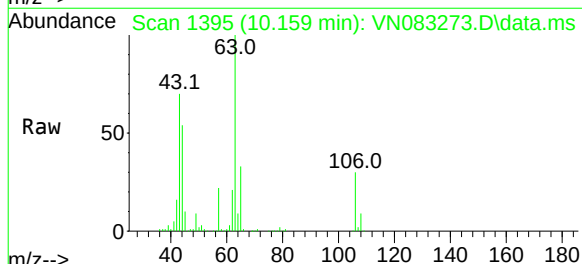
Acq: 14 Aug 2024 02:14

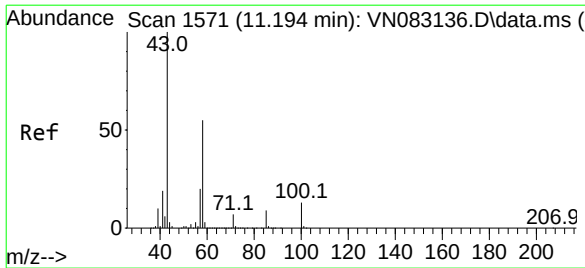
Tgt Ion: 63 Resp: 372196

Ion Ratio Lower Upper

63 100

106 28.6 21.4 32.0





#59

2-Hexanone

Concen: 226.034 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 535223

Ion Ratio Lower Upper

43 100

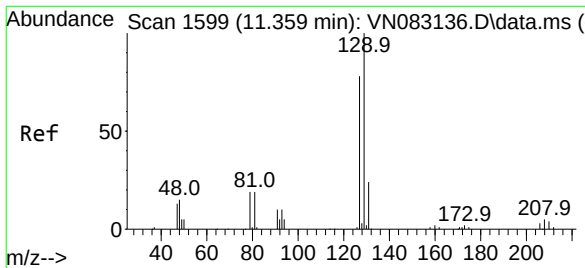
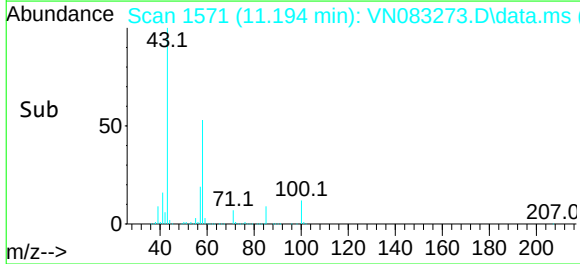
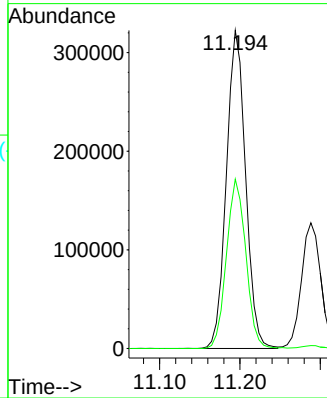
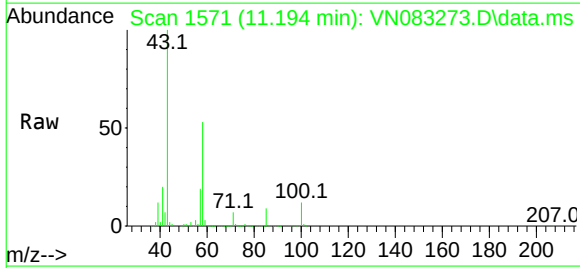
58 53.7 24.6 73.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#60

Dibromochloromethane

Concen: 51.173 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. 0.000 min

Lab File: VN083273.D

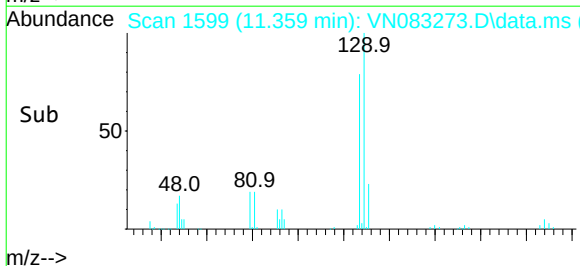
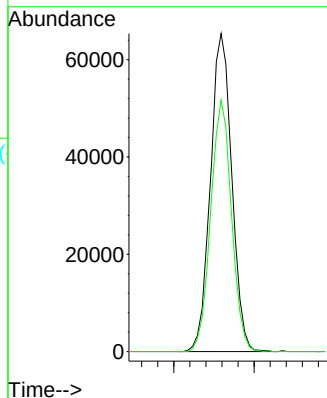
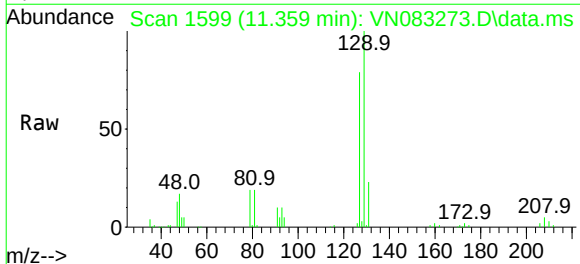
Acq: 14 Aug 2024 02:14

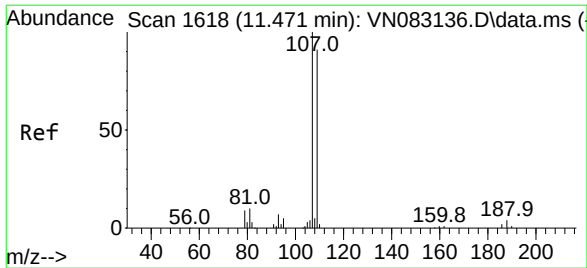
Tgt Ion:129 Resp: 120644

Ion Ratio Lower Upper

129 100

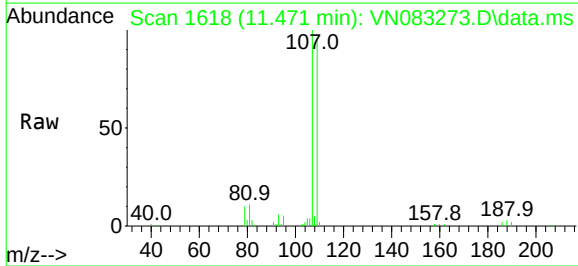
127 77.1 39.2 117.6





#61
1,2-Dibromoethane
Concen: 49.436 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

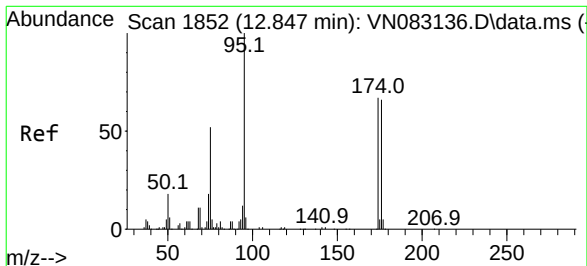
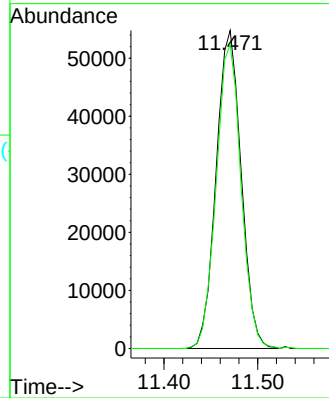
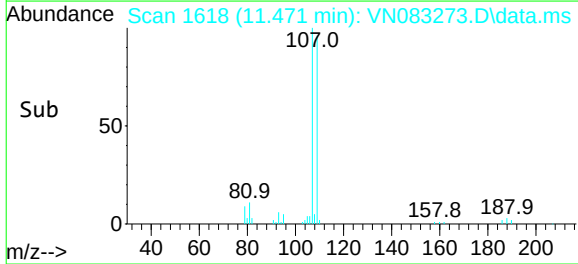
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 107 Resp: 101266
Ion Ratio Lower Upper
107 100
109 95.0 73.7 110.5

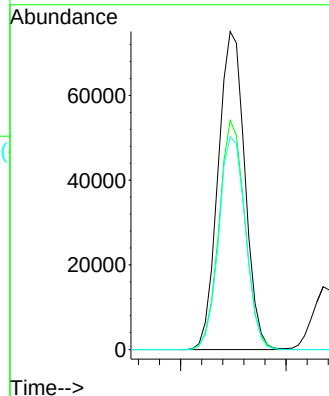
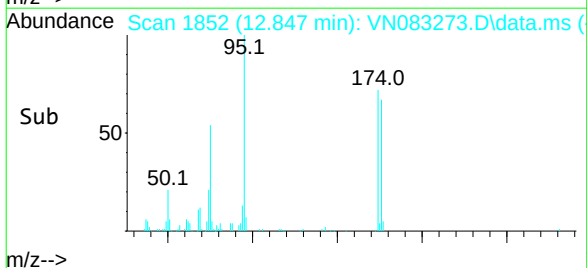
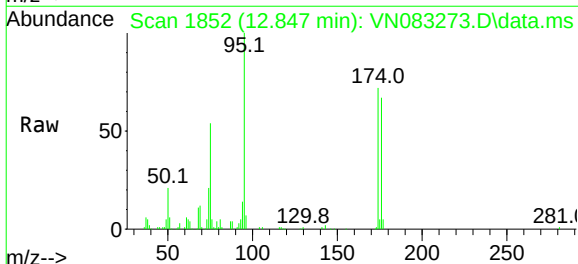
Manual Integrations
APPROVED

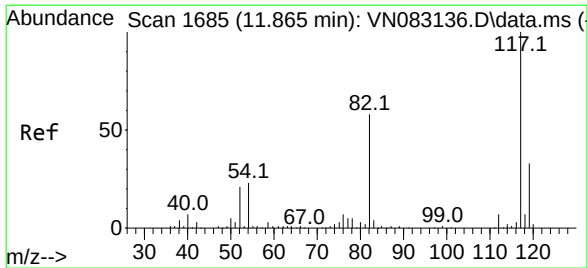
Reviewed By : John Carlone 08/14/2024
Supervised By : Mahesh Dadoda 08/14/2024



#62
4-Bromofluorobenzene
Concen: 47.580 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

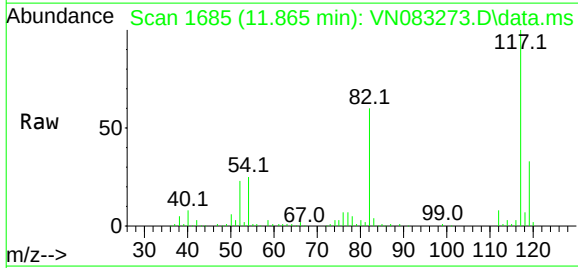
Tgt Ion: 95 Resp: 132226
Ion Ratio Lower Upper
95 100
174 70.0 0.0 159.2
176 67.0 0.0 147.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

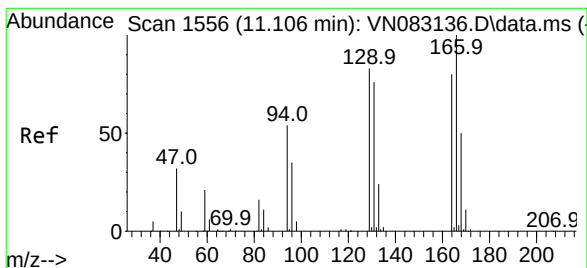
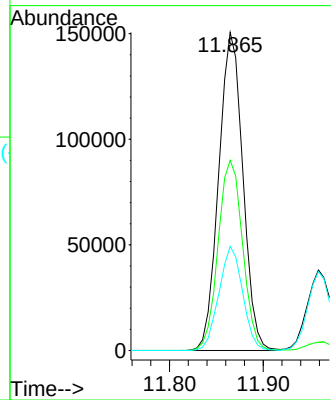
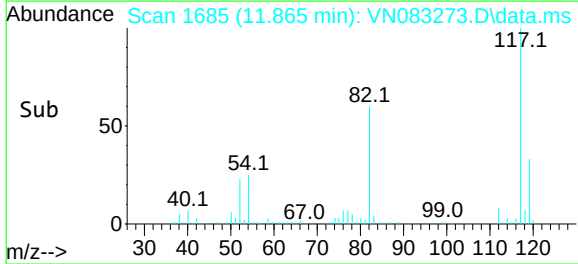
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:117 Resp: 269814
Ion Ratio Lower Upper
117 100
82 59.8 47.5 71.3
119 32.7 25.6 38.4

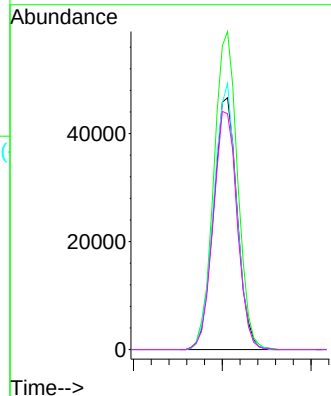
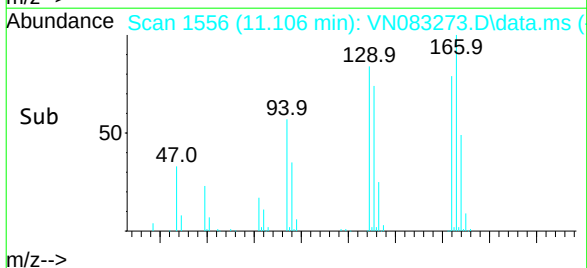
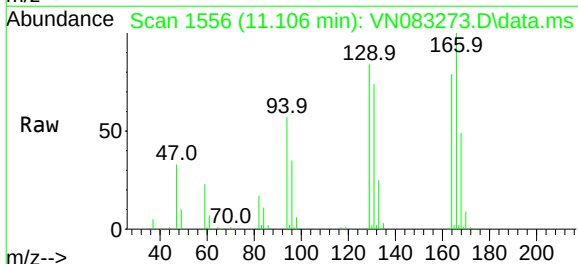
Manual Integrations
APPROVED

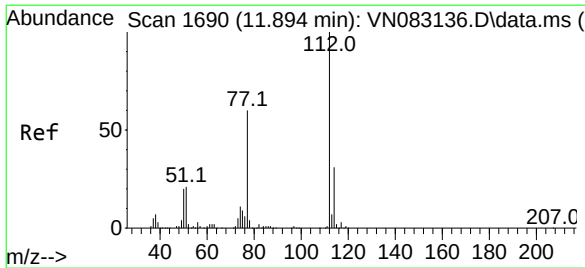
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#64
Tetrachloroethene
Concen: 48.491 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:164 Resp: 86650
Ion Ratio Lower Upper
164 100
166 126.3 101.4 152.0
129 105.7 75.7 113.5
131 93.7 73.8 110.6





#65

Chlorobenzene

Concen: 47.539 ug/l

RT: 11.894 min Scan# 16

Delta R.T. 0.000 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:112 Resp: 283451

Ion Ratio Lower Upper

112 100

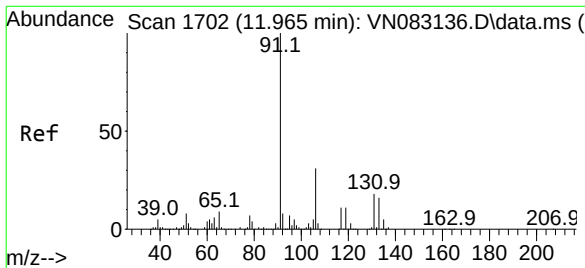
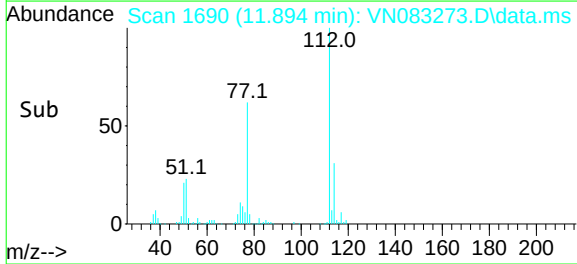
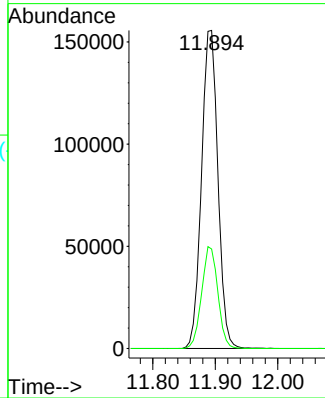
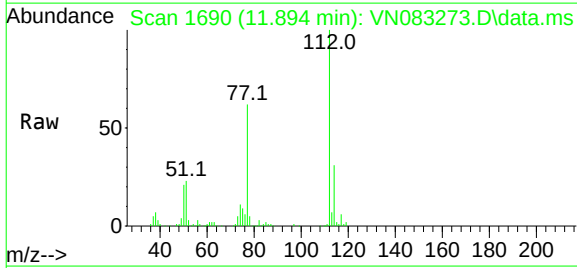
114 31.3 26.2 39.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#66

1,1,1,2-Tetrachloroethane

Concen: 47.857 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.006 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

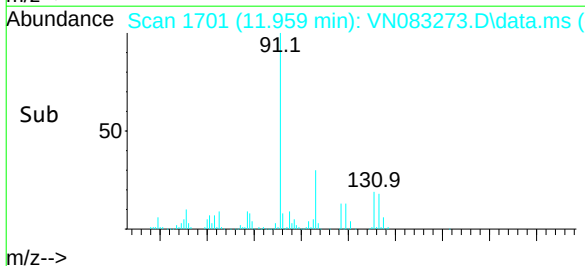
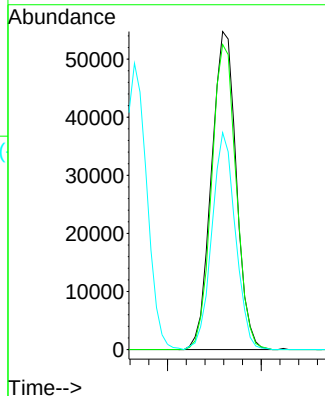
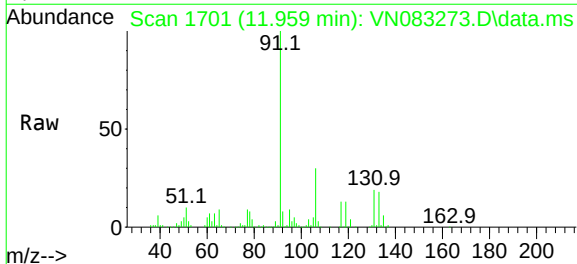
Tgt Ion:131 Resp: 100637

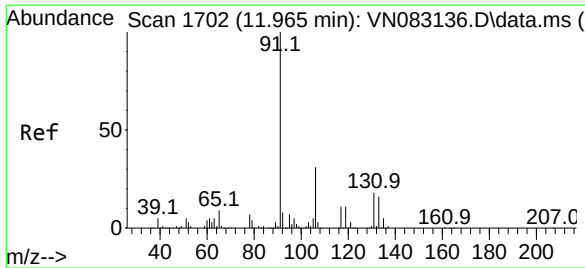
Ion Ratio Lower Upper

131 100

133 94.7 47.3 142.0

119 64.6 32.5 97.4





#67

Ethyl Benzene

Concen: 47.941 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. 0.000 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 524382

Ion Ratio Lower Upper

91 100

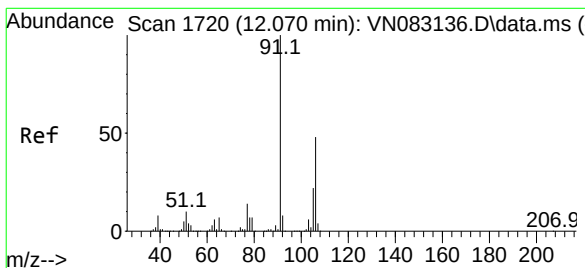
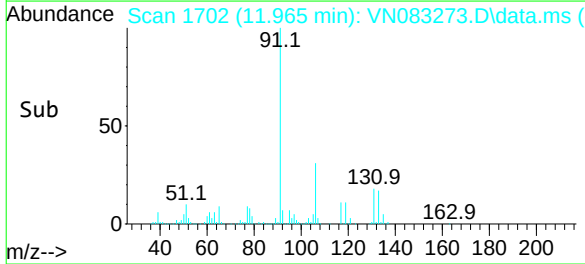
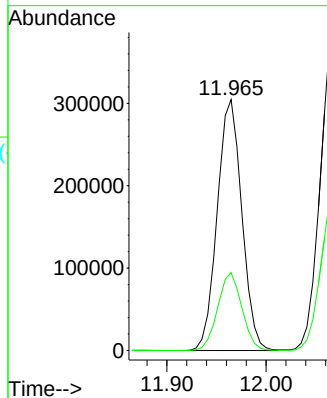
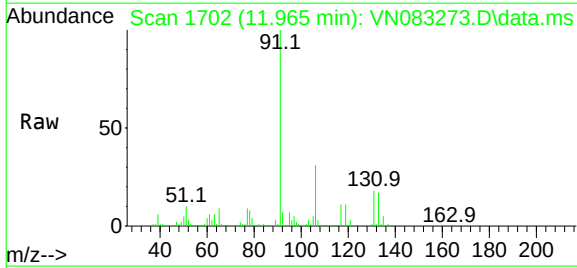
106 31.1 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#68

m/p-Xylenes

Concen: 96.479 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.000 min

Lab File: VN083273.D

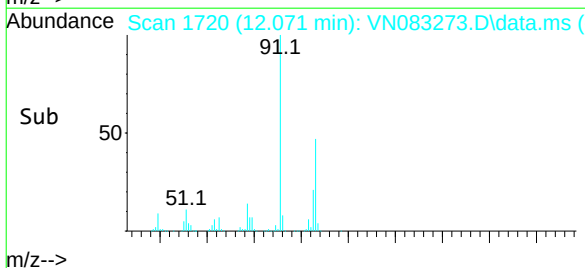
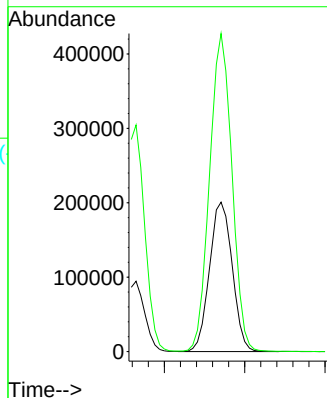
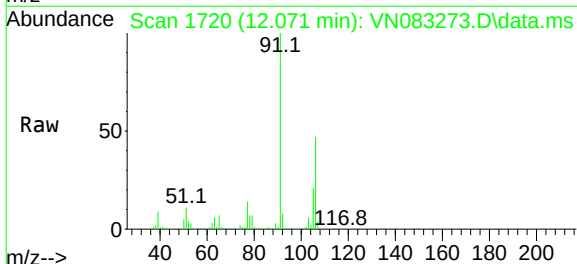
Acq: 14 Aug 2024 02:14

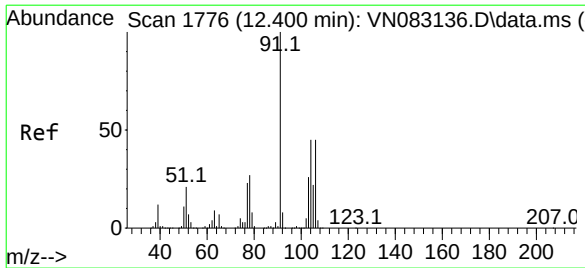
Tgt Ion:106 Resp: 395309

Ion Ratio Lower Upper

106 100

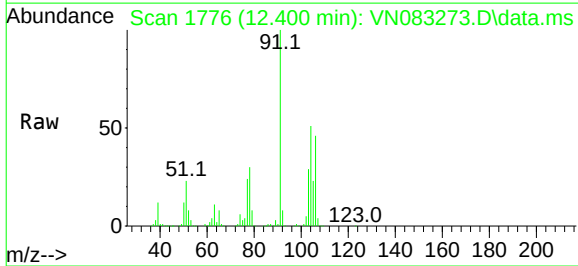
91 208.8 166.1 249.1





#69
o-Xylene
Concen: 47.948 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

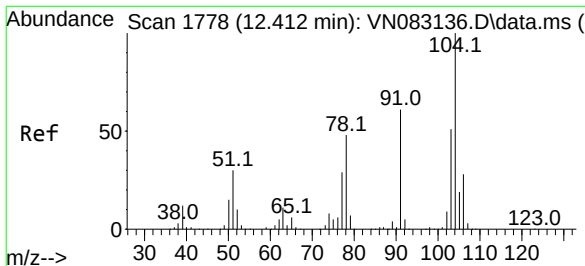
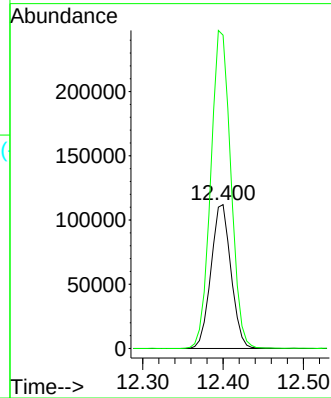
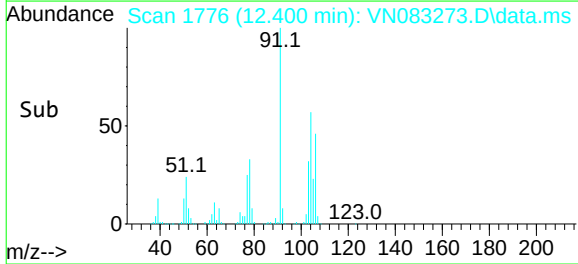
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:106 Resp: 193761
Ion Ratio Lower Upper
106 100
91 222.0 111.3 333.9

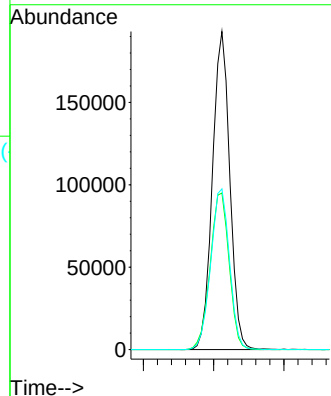
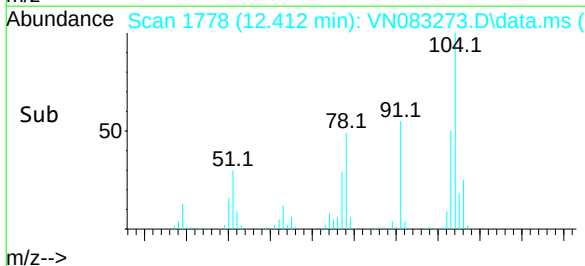
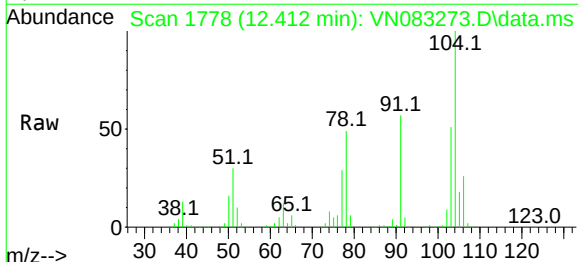
Manual Integrations
APPROVED

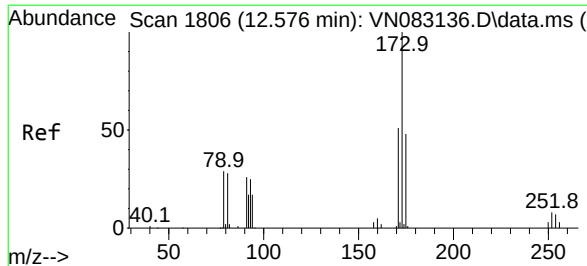
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#70
Styrene
Concen: 48.825 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion:104 Resp: 331385
Ion Ratio Lower Upper
104 100
78 53.6 41.6 62.4
103 54.5 44.0 66.0





#71

Bromoform

Concen: 47.541 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. 0.000 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

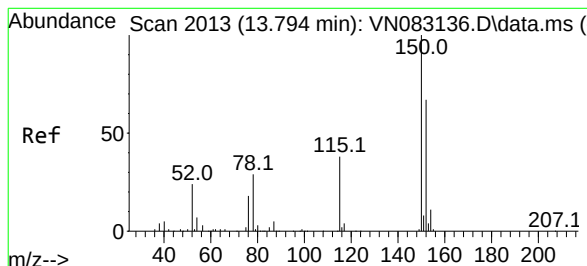
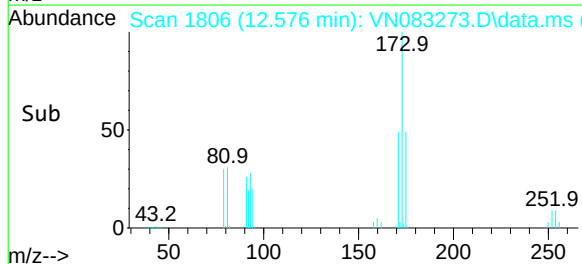
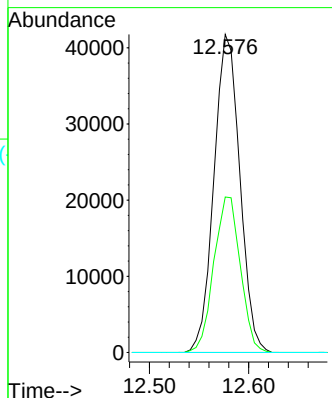
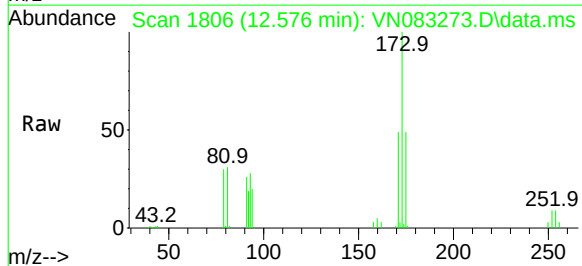
Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:	173	Resp:	75736
Ion Ratio	Lower	Upper	
173	100		
175	50.0	24.0	72.0
254	0.0	0.0	0.0

Manual Integrations
APPROVEDReviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

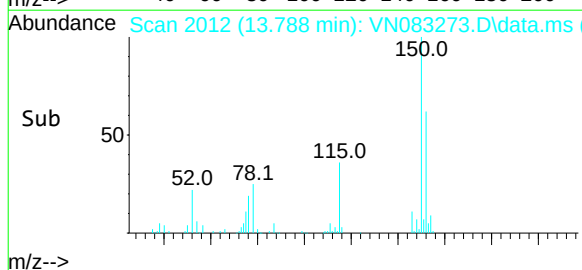
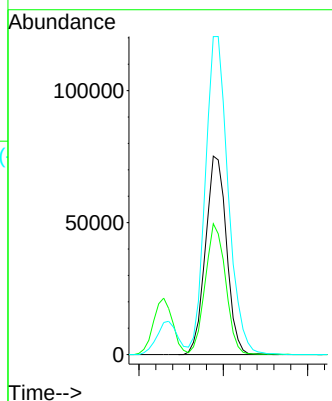
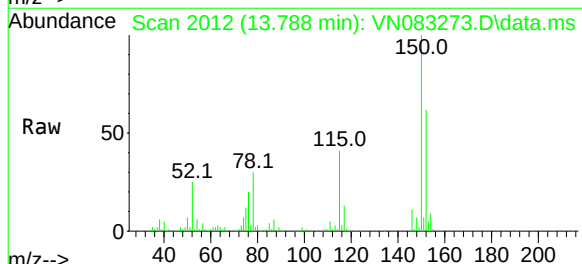
RT: 13.788 min Scan# 2012

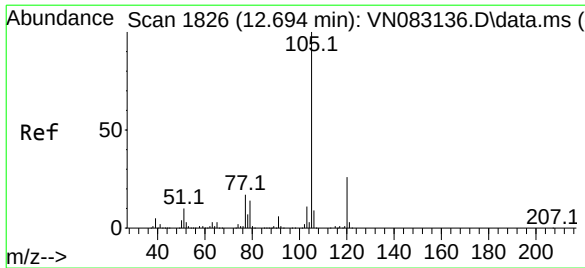
Delta R.T. -0.006 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

Tgt Ion:	152	Resp:	130108
Ion Ratio	Lower	Upper	
152	100		
115	63.5	30.6	91.6
150	173.7	0.0	348.6





#73

Isopropylbenzene

Concen: 46.093 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.000 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 105 Resp: 501606

Ion Ratio Lower Upper

105 100

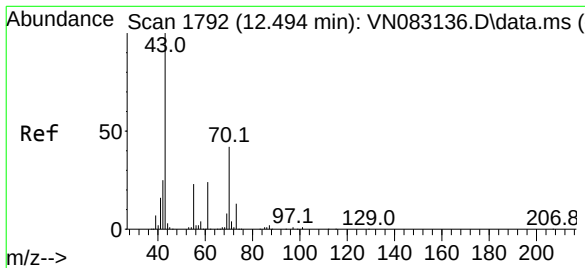
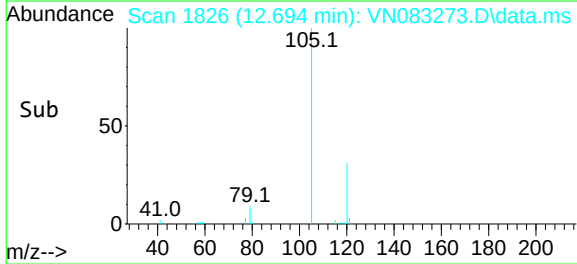
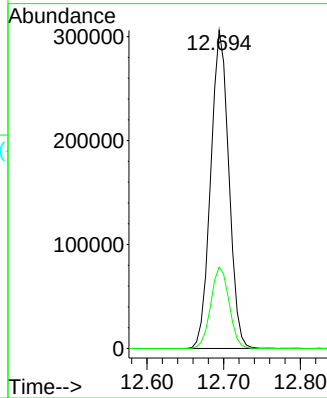
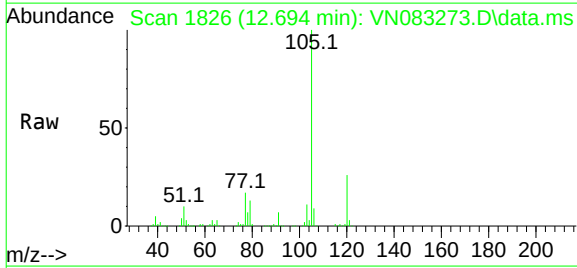
120 25.8 12.9 38.6

Manual Integrations

APPROVED

Reviewed By : John Carlone 08/14/2024

Supervised By : Mahesh Dadoda 08/14/2024



#74

N-ethyl acetate

Concen: 42.845 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. 0.000 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

Tgt Ion: 43 Resp: 228068

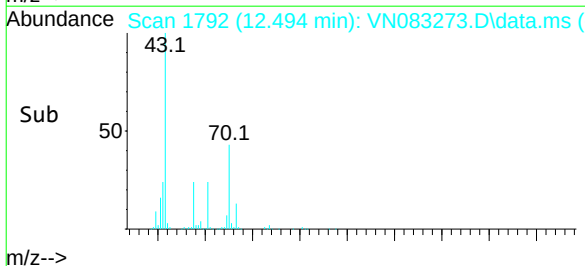
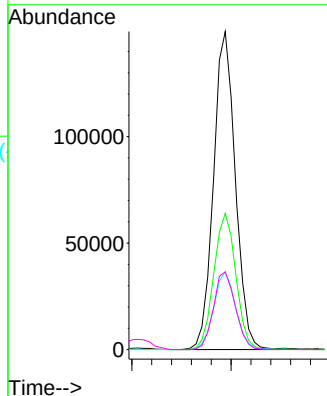
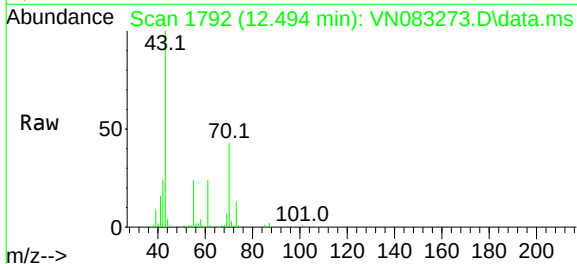
Ion Ratio Lower Upper

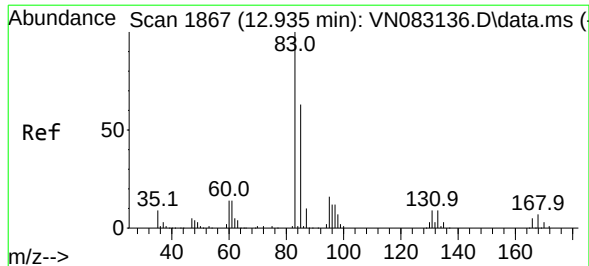
43 100

70 43.3 29.8 44.6

55 24.7 18.7 28.1

61 24.6 17.4 26.0





#75

1,1,2,2-Tetrachloroethane

Concen: 45.722 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. 0.000 min

Lab File: VN083273.D

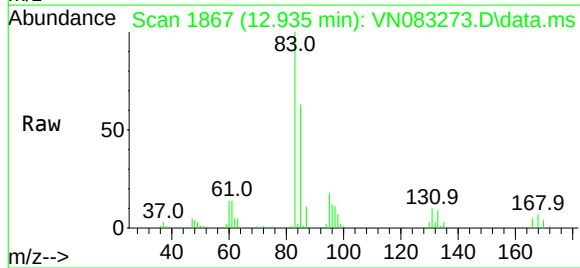
Acq: 14 Aug 2024 02:14

Instrument :

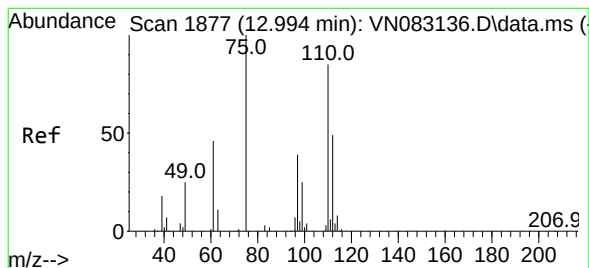
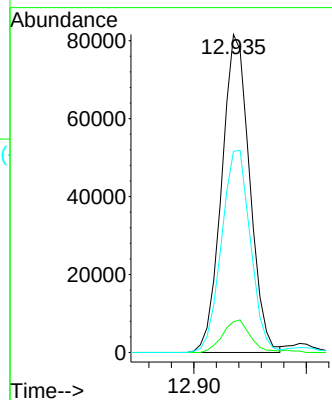
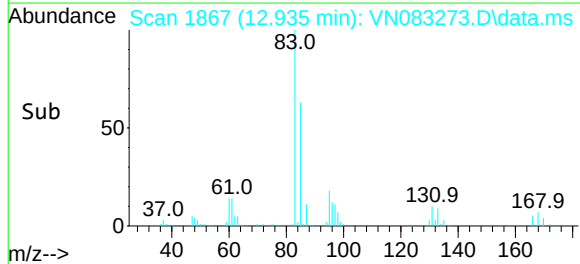
MSVOA_N

ClientSampleId :

VSTDCCC050



Tgt Ion:	83	Resp:	140731
Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.0	14.9
85	65.7	31.9	95.7

Manual Integrations
APPROVEDReviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

#76

1,2,3-Trichloropropane

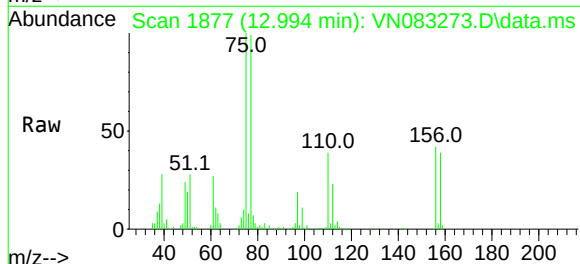
Concen: 43.886 ug/l m

RT: 12.994 min Scan# 1877

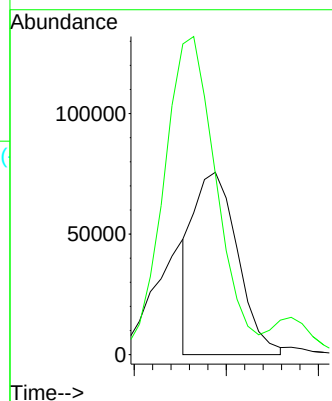
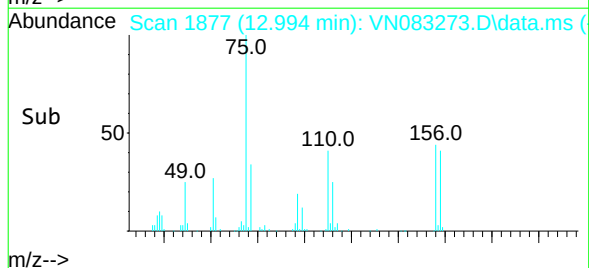
Delta R.T. 0.000 min

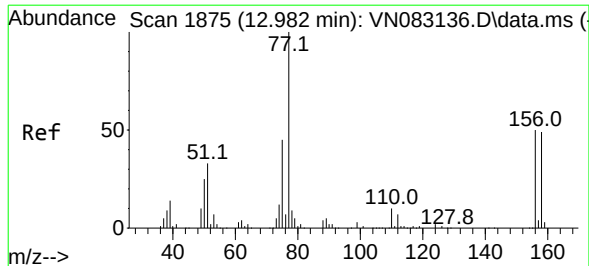
Lab File: VN083273.D

Acq: 14 Aug 2024 02:14



Tgt Ion:	75	Resp:	125319
Ion	Ratio	Lower	Upper
75	100		
77	209.9	110.9	332.6





#77

Bromobenzene

Concen: 47.337 ug/l

RT: 12.976 min Scan# 1875

Delta R.T. -0.006 min

Lab File: VN083273.D

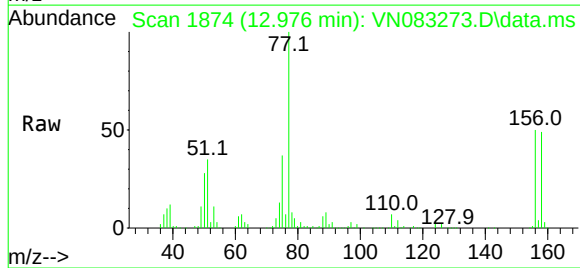
Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050



Tgt Ion: 156 Resp: 114435

Ion Ratio Lower Upper

156 100

77 229.9 111.3 333.8

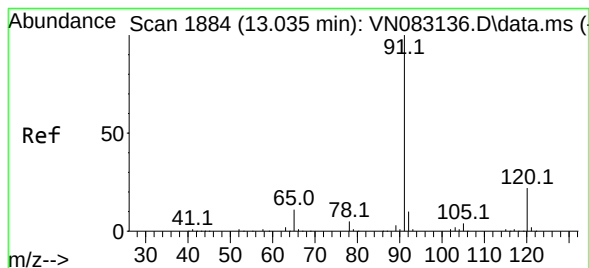
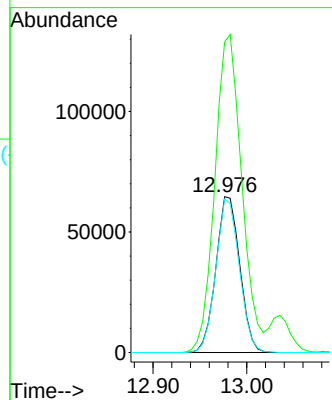
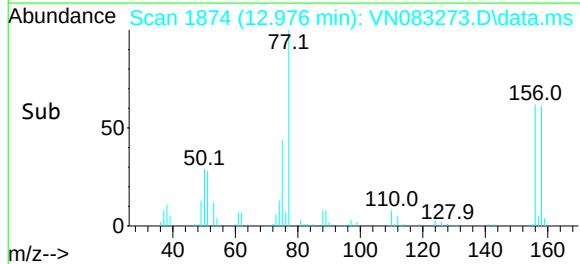
158 96.8 48.3 144.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#78

n-propylbenzene

Concen: 47.013 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. 0.000 min

Lab File: VN083273.D

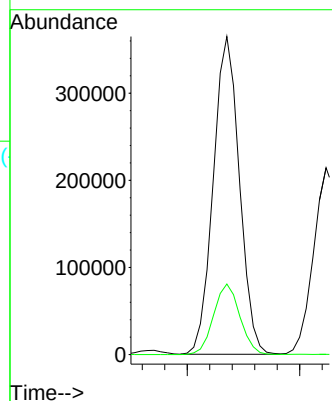
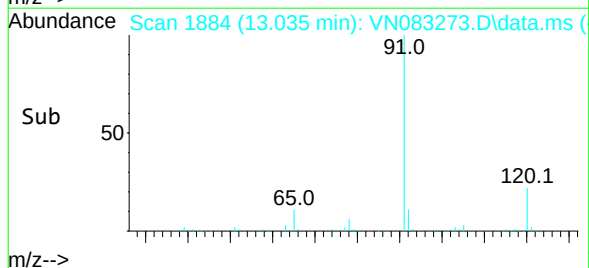
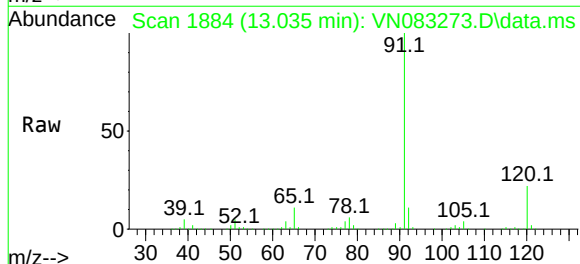
Acq: 14 Aug 2024 02:14

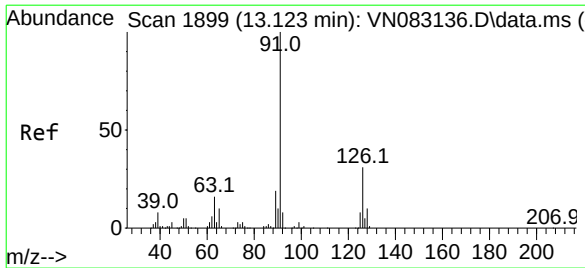
Tgt Ion: 91 Resp: 589118

Ion Ratio Lower Upper

91 100

120 22.3 10.9 32.9





#79

2-Chlorotoluene

Concen: 45.940 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 364980

Ion Ratio Lower Upper

91 100

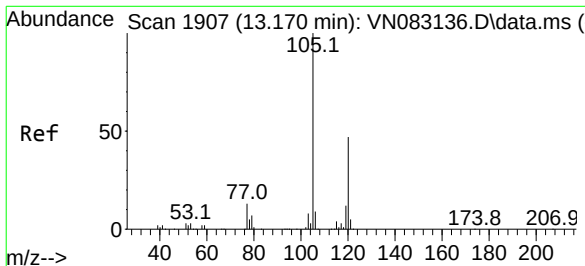
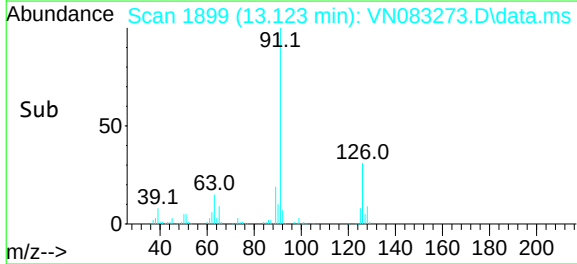
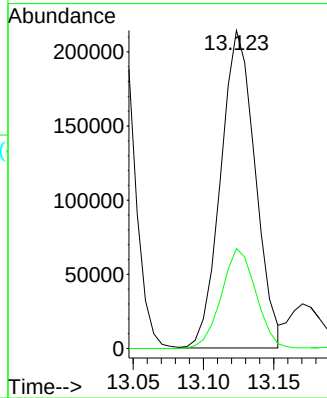
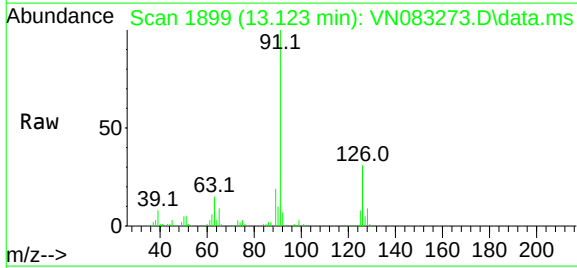
126 31.5 16.2 48.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#80

1,3,5-Trimethylbenzene

Concen: 46.717 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN083273.D

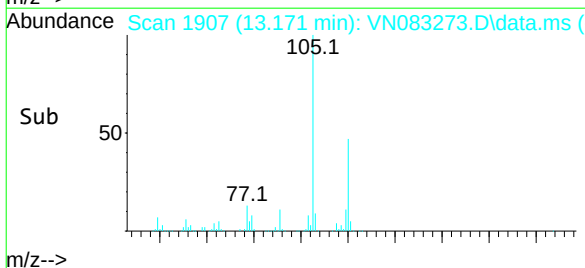
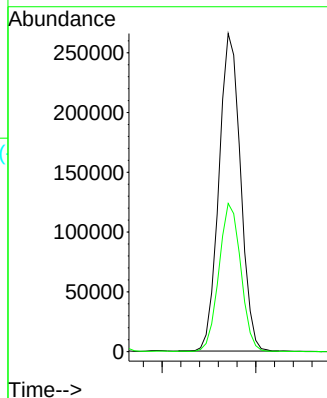
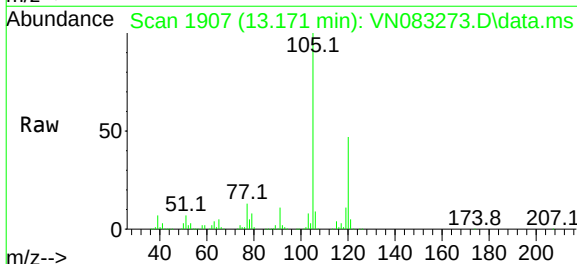
Acq: 14 Aug 2024 02:14

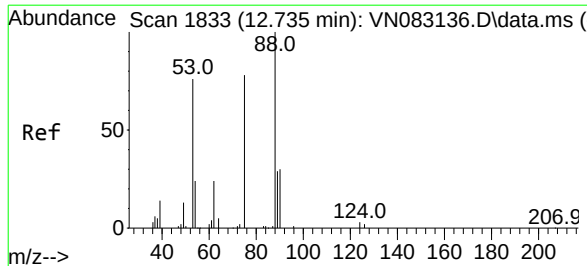
Tgt Ion:105 Resp: 425635

Ion Ratio Lower Upper

105 100

120 47.4 24.3 72.8





#81

trans-1,4-Dichloro-2-butene

Concen: 35.795 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. 0.000 min

Lab File: VN083273.D

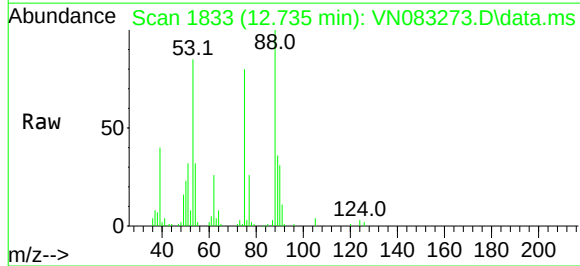
Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050



Tgt Ion: 75 Resp: 46990

Ion Ratio Lower Upper

75 100

53 105.4 88.4 132.6

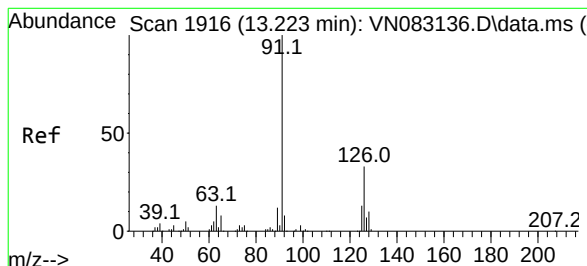
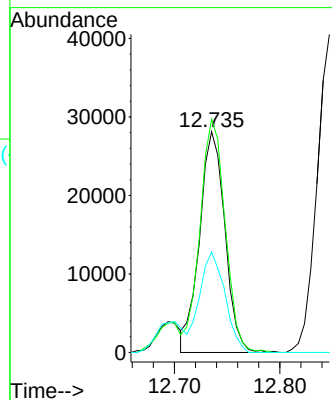
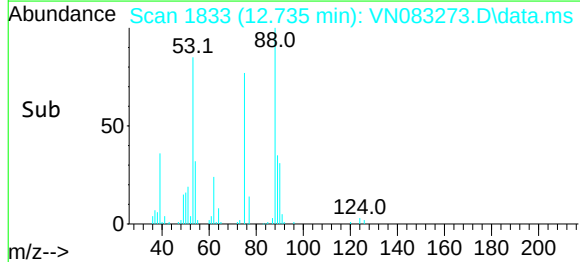
89 45.4 36.3 54.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#82

4-Chlorotoluene

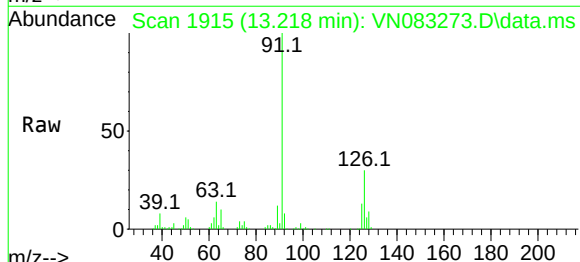
Concen: 46.484 ug/l

RT: 13.218 min Scan# 1915

Delta R.T. -0.006 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

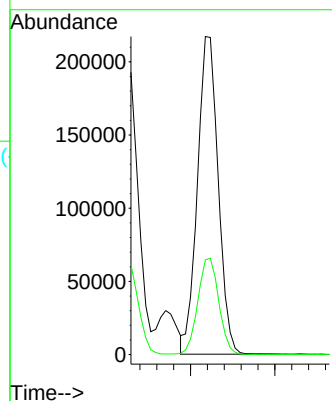
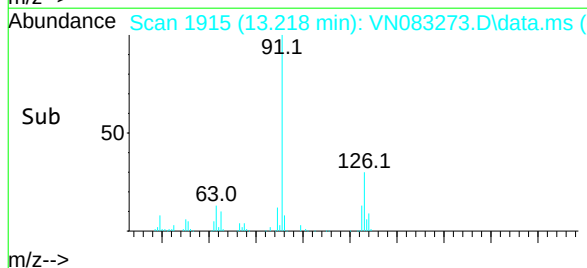


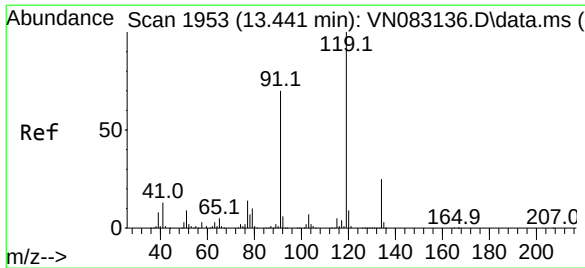
Tgt Ion: 91 Resp: 370428

Ion Ratio Lower Upper

91 100

126 30.7 16.2 48.6





#83

tert-Butylbenzene

Concen: 46.463 ug/l

RT: 13.435 min Scan# 19

Delta R.T. -0.006 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:119 Resp: 374894

Ion Ratio Lower Upper

119 100

91 70.5 35.0 105.1

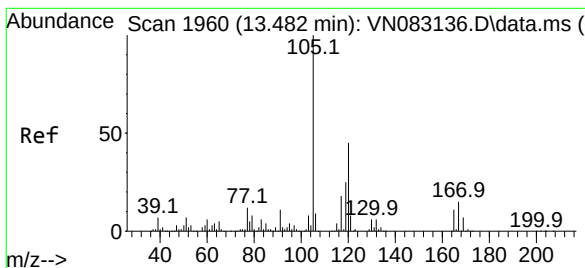
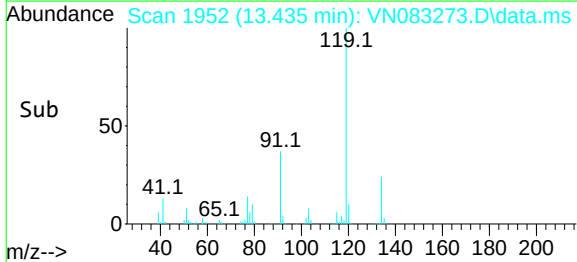
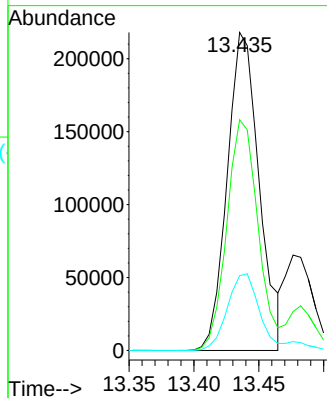
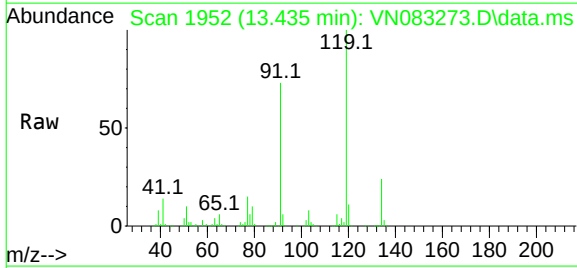
134 24.1 13.3 39.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#84

1,2,4-Trimethylbenzene

Concen: 47.380 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.000 min

Lab File: VN083273.D

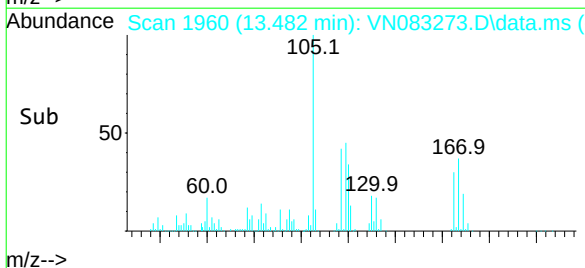
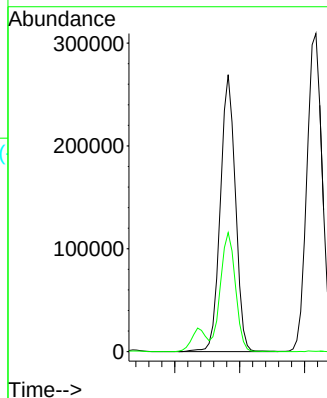
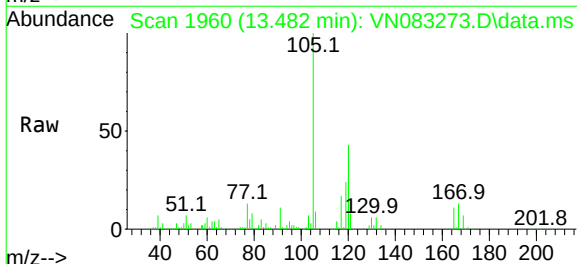
Acq: 14 Aug 2024 02:14

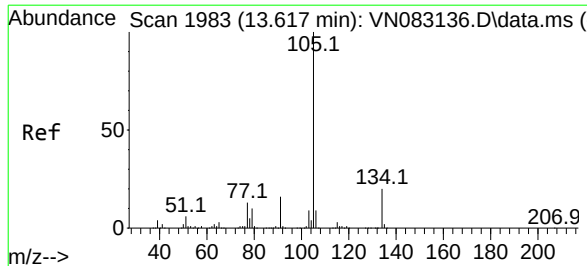
Tgt Ion:105 Resp: 435034

Ion Ratio Lower Upper

105 100

120 42.6 21.9 65.8





#85

sec-Butylbenzene

Concen: 46.360 ug/l

RT: 13.618 min Scan# 19

Delta R.T. 0.000 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:105 Resp: 510406

Ion Ratio Lower Upper

105 100

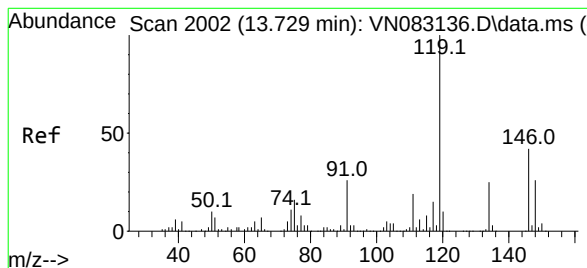
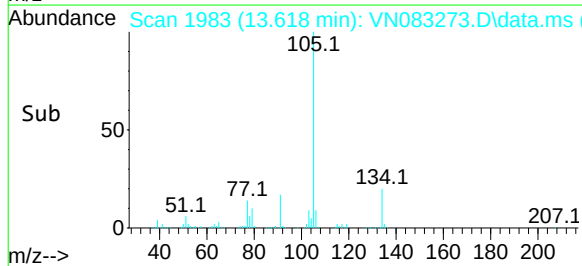
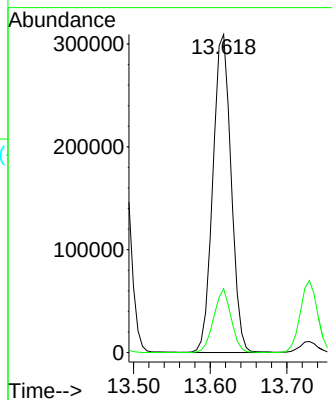
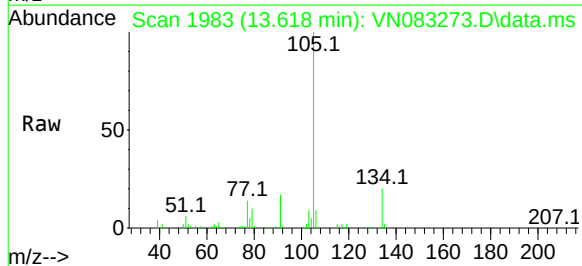
134 19.0 9.8 29.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#86

p-Isopropyltoluene

Concen: 47.118 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

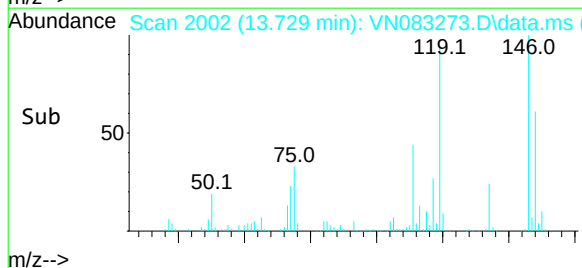
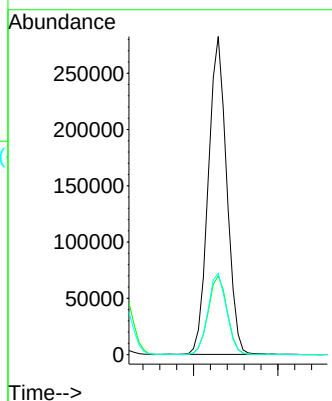
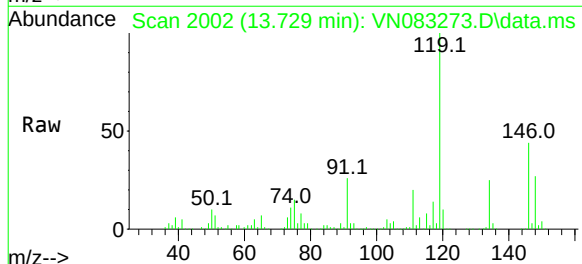
Tgt Ion:119 Resp: 428320

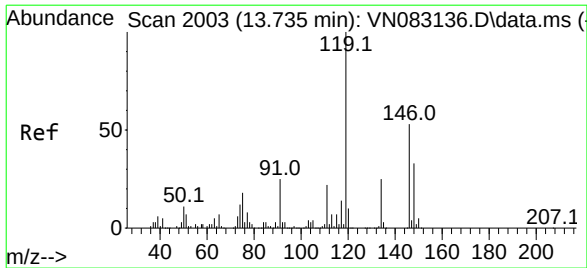
Ion Ratio Lower Upper

119 100

134 25.5 13.0 39.0

91 25.8 12.3 36.9





#87

1,3-Dichlorobenzene

Concen: 46.613 ug/l

RT: 13.729 min Scan# 2003

Delta R.T. -0.006 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:146 Resp: 212036

Ion Ratio Lower Upper

146 100

111 44.1 20.6 61.9

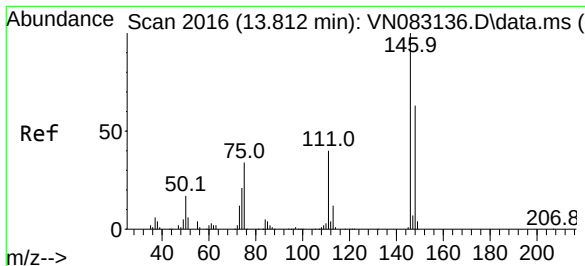
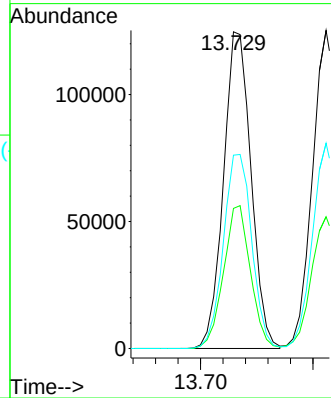
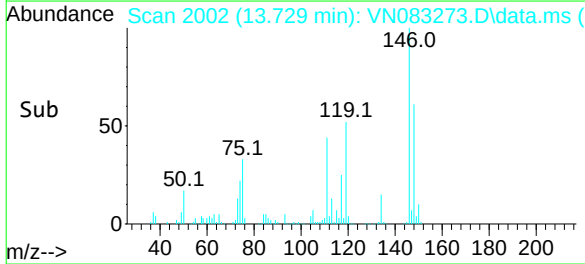
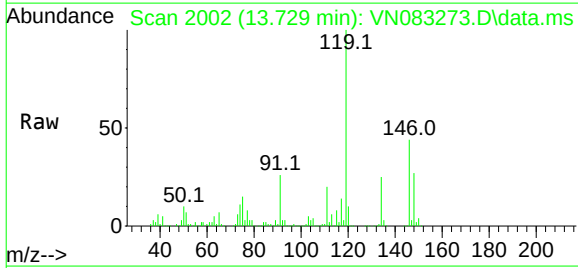
148 63.2 31.8 95.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#88

1,4-Dichlorobenzene

Concen: 45.682 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

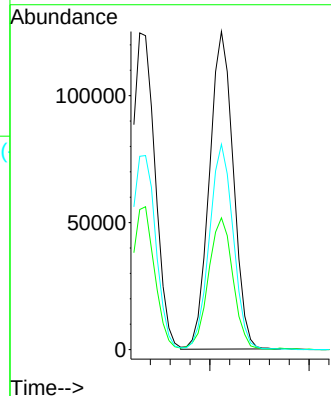
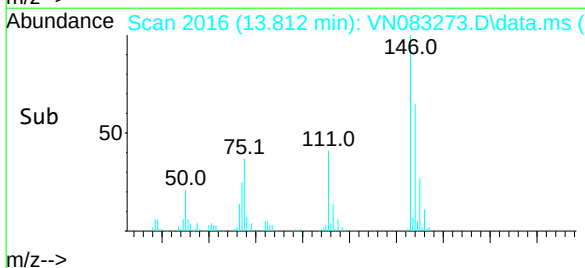
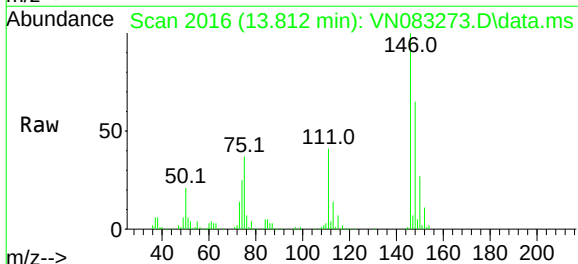
Tgt Ion:146 Resp: 209492

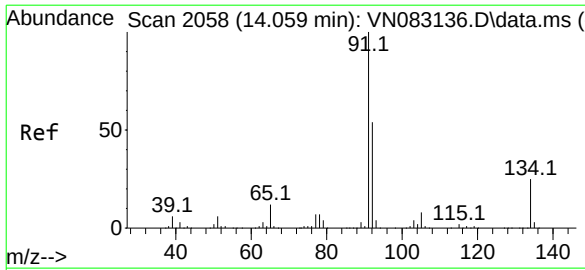
Ion Ratio Lower Upper

146 100

111 42.3 20.1 60.3

148 64.9 32.2 96.6





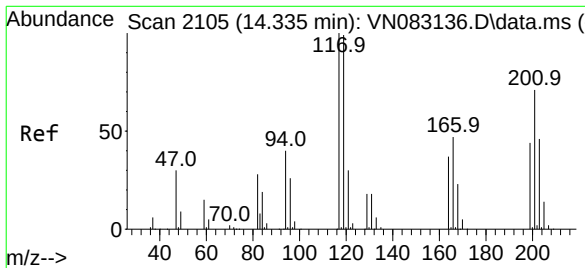
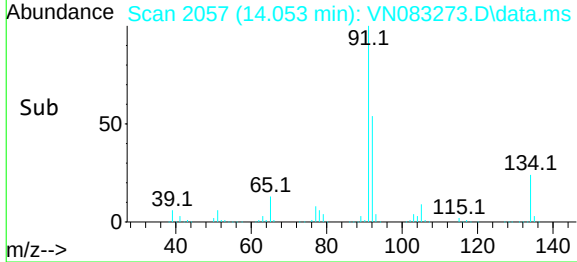
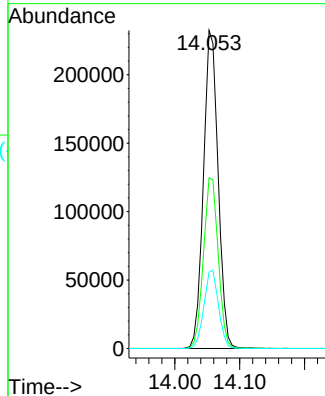
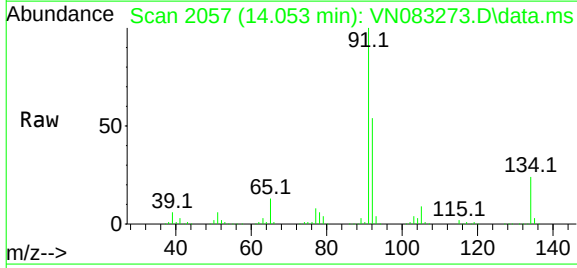
#89
n-Butylbenzene
Concen: 46.266 ug/l
RT: 14.053 min Scan# 2058
Delta R.T. -0.006 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:	91	Resp:	364428
Ion	Ratio	Lower	Upper
91	100		
92	54.2	26.1	78.3
134	24.5	12.1	36.3

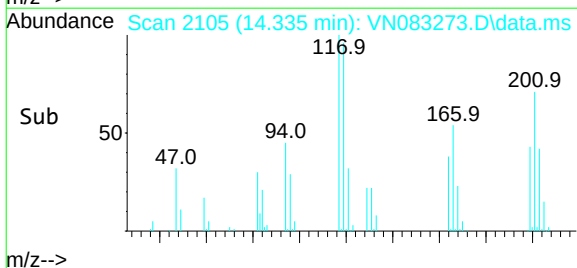
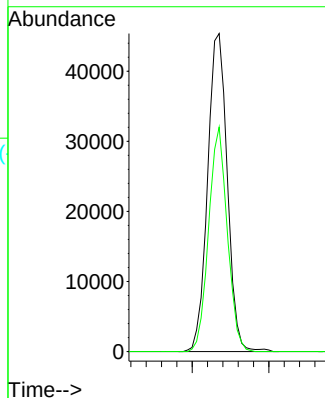
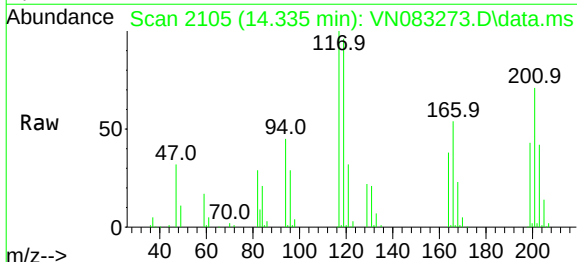
Manual Integrations
APPROVED

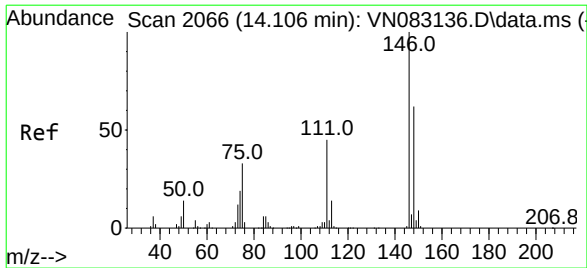
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#90
Hexachloroethane
Concen: 46.041 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

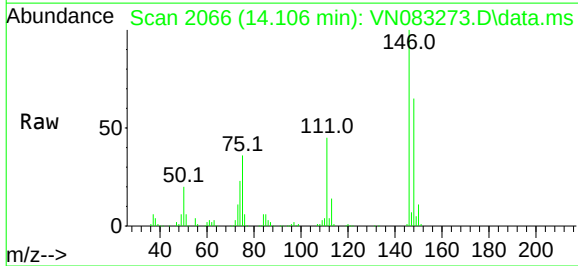
Tgt Ion:	117	Resp:	80859
Ion	Ratio	Lower	Upper
117	100		
201	66.9	35.8	107.3





#91
1,2-Dichlorobenzene
Concen: 46.393 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

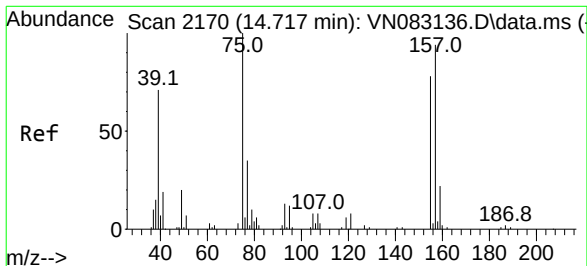
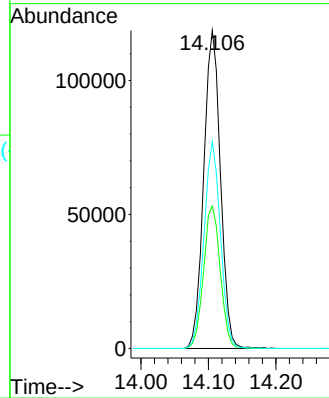
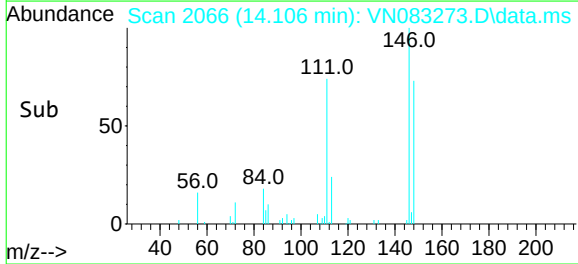
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 146 Resp: 204215
Ion Ratio Lower Upper
146 100
111 44.7 21.4 64.2
148 64.1 32.1 96.5

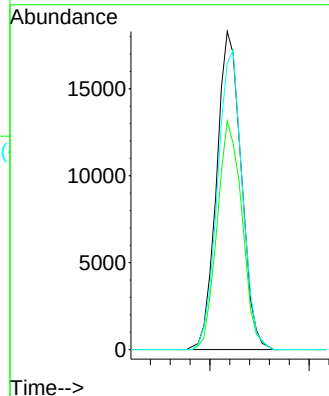
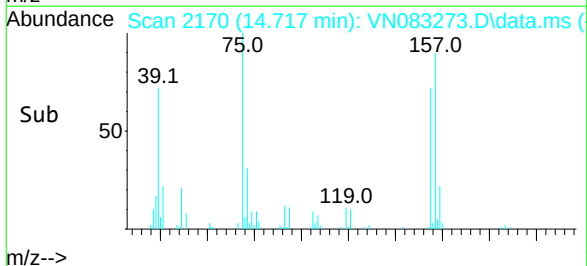
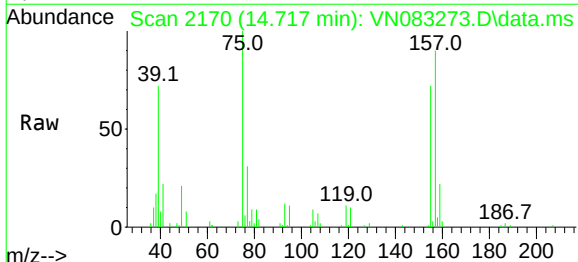
Manual Integrations
APPROVED

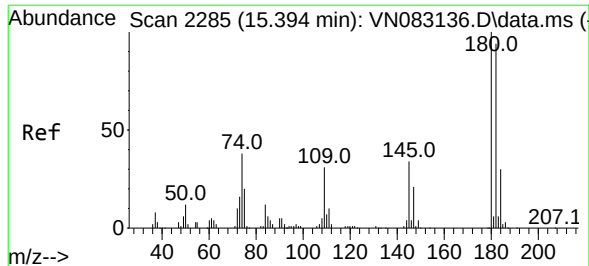
Reviewed By : John Carlone 08/14/2024
Supervised By : Mahesh Dadoda 08/14/2024



#92
1,2-Dibromo-3-Chloropropane
Concen: 42.279 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN083273.D
Acq: 14 Aug 2024 02:14

Tgt Ion: 75 Resp: 31578
Ion Ratio Lower Upper
75 100
155 72.6 36.6 109.8
157 93.9 46.9 140.6





#93

1,2,4-Trichlorobenzene

Concen: 45.235 ug/l

RT: 15.394 min Scan# 2285

Delta R.T. 0.000 min

Lab File: VN083273.D

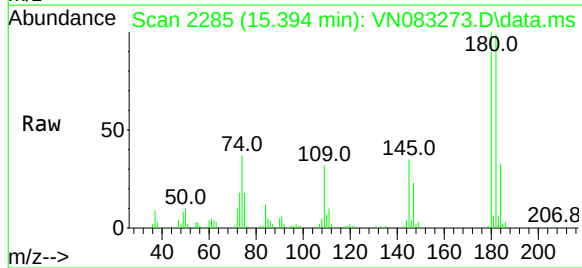
Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050



Tgt Ion:180 Resp: 111553

Ion Ratio Lower Upper

180 100

182 94.9 47.3 141.8

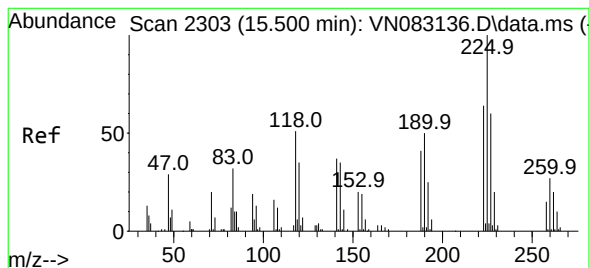
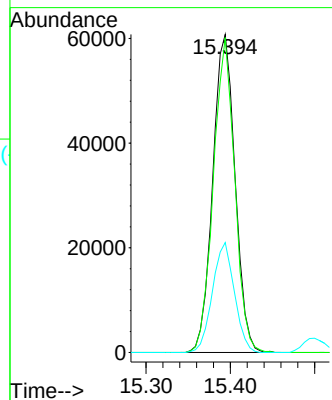
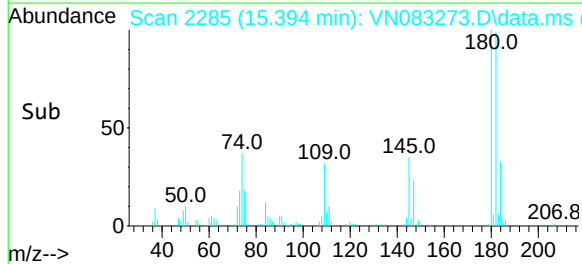
145 34.1 15.7 47.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#94

Hexachlorobutadiene

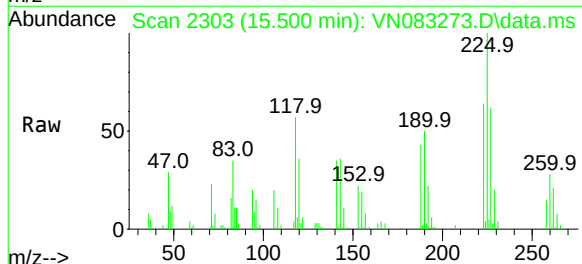
Concen: 40.920 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14



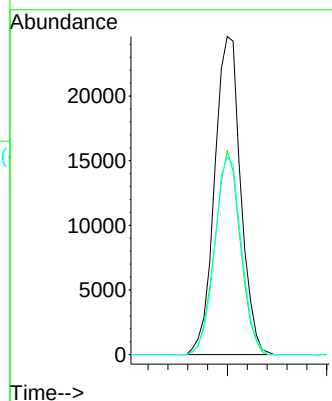
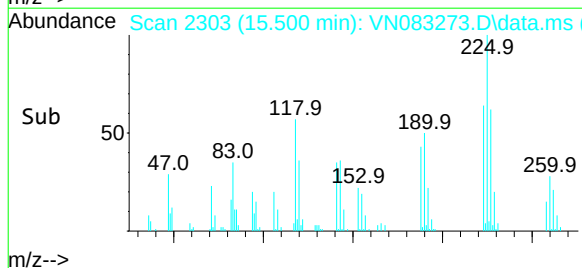
Tgt Ion:225 Resp: 44878

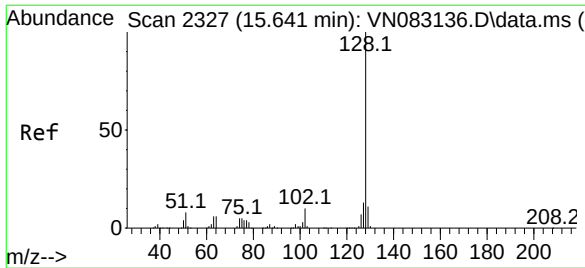
Ion Ratio Lower Upper

225 100

223 62.6 31.9 95.7

227 63.6 32.5 97.5





#95

Naphthalene

Concen: 44.043 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. 0.000 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

Instrument :

MSVOA_N

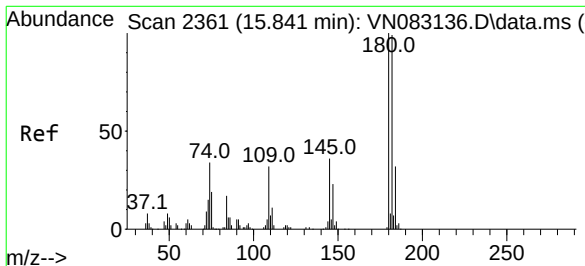
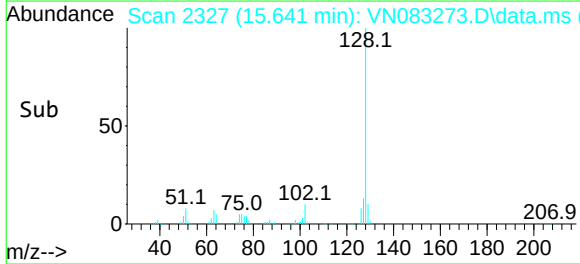
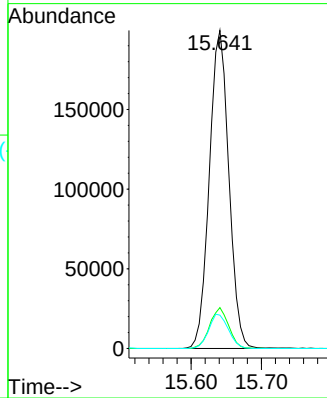
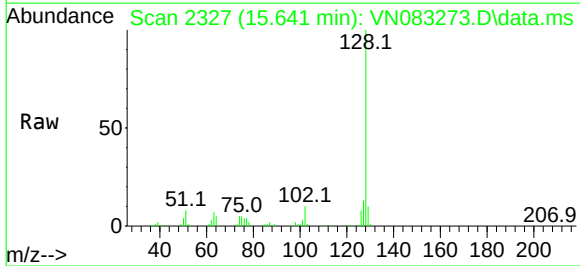
ClientSampleId :

VSTDCCC050

Tgt Ion:	128	Resp:	384733
Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.6	16.0
129	10.9	8.6	12.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#96

1,2,3-Trichlorobenzene

Concen: 45.439 ug/l

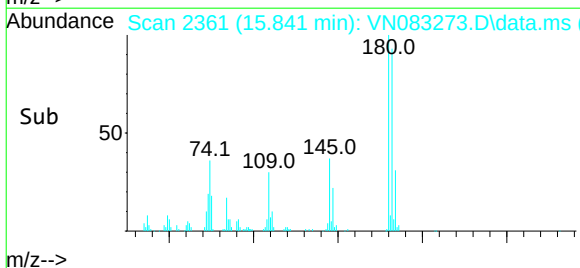
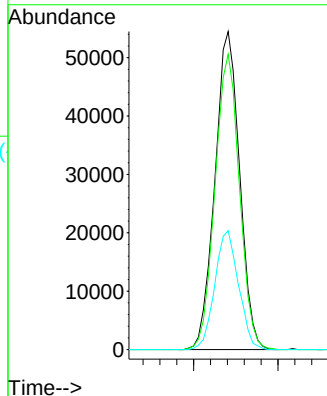
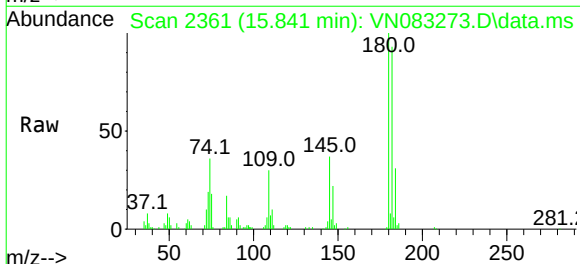
RT: 15.841 min Scan# 2361

Delta R.T. 0.000 min

Lab File: VN083273.D

Acq: 14 Aug 2024 02:14

Tgt Ion:	180	Resp:	110878
Ion	Ratio	Lower	Upper
180	100		
182	91.7	48.9	146.8
145	35.9	16.8	50.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
 Data File : VN083273.D
 Acq On : 14 Aug 2024 02:14
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Aug 14 03:26:27 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 14 03:26:08 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	85	0.00
2 T	Dichlorodifluoromethane	0.567	0.522	7.9	77	0.00
3 P	Chloromethane	0.581	0.527	9.3	75	0.00
4 C	Vinyl Chloride	0.592	0.575	2.9#	81	0.00
5 T	Bromomethane	0.368	0.331	10.1	79	0.00
6 T	Chloroethane	0.371	0.373	-0.5	89	0.00
7 T	Trichlorofluoromethane	0.979	0.983	-0.4	84	0.00
8 T	Diethyl Ether	0.364	0.352	3.3	81	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.539	0.535	0.7	83	0.00
10 T	Methyl Iodide	0.710	0.614	13.5	70	0.00
11 T	Tert butyl alcohol	0.148	0.140	5.4	81	0.00
12 CM	1,1-Dichloroethene	0.554	0.506	8.7#	79	0.00
13 T	Acrolein	0.096	0.076	20.8	63	0.00
14 T	Allyl chloride	1.047	0.839	19.9	76	0.00
15 T	Acrylonitrile	0.304	0.286	5.9	79	0.00
16 T	Acetone	0.278	0.237	14.7	70	0.00
17 T	Carbon Disulfide	1.622	1.315	18.9	71	0.00
18 T	Methyl Acetate	0.830	0.808	2.7	88	0.00
19 T	Methyl tert-butyl Ether	2.001	1.942	2.9	81	0.00
20 T	Methylene Chloride	0.641	0.582	9.2	82	0.00
21 T	trans-1,2-Dichloroethene	0.573	0.535	6.6	79	-0.01
22 T	Diisopropyl ether	1.969	1.991	-1.1	84	0.00
23 T	Vinyl Acetate	2.018	1.981	1.8	80	0.00
24 P	1,1-Dichloroethane	1.073	1.074	-0.1	84	0.00
25 T	2-Butanone	0.428	0.388	9.3	77	0.00
26 T	2,2-Dichloropropane	0.997	0.667	33.1#	55	0.00
27 T	cis-1,2-Dichloroethene	0.691	0.670	3.0	82	0.00
28 T	Bromochloromethane	0.439	0.422	3.9	81	0.00
29 T	Tetrahydrofuran	0.276	0.256	7.2	78	0.00
30 C	Chloroform	1.115	1.154	-3.5#	86	0.00
31 T	Cyclohexane	1.055	0.902	14.5	78	0.00
32 T	1,1,1-Trichloroethane	1.055	1.071	-1.5	84	0.00
33 S	1,2-Dichloroethane-d4	0.712	0.707	0.7	80	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	88	0.00
35 S	Dibromofluoromethane	0.312	0.295	5.4	78	0.00
36 T	1,1-Dichloropropene	0.472	0.443	6.1	82	0.00
37 T	Ethyl Acetate	0.529	0.449	15.1	79	0.00
38 T	Carbon Tetrachloride	0.532	0.520	2.3	84	0.00
39 T	Methylcyclohexane	0.580	0.509	12.2	75	0.00
40 TM	Benzene	1.406	1.358	3.4	82	0.00
41 T	Methacrylonitrile	0.301	0.266	11.6	82	0.00
42 TM	1,2-Dichloroethane	0.512	0.512	0.0	86	0.00
43 T	Isopropyl Acetate	1.211	0.850	29.8#	81	0.00
44 TM	Trichloroethene	0.335	0.321	4.2	82	0.00
45 C	1,2-Dichloropropane	0.334	0.330	1.2#	84	0.00
46 T	Dibromomethane	0.239	0.240	-0.4	84	0.00
47 T	Bromodichloromethane	0.537	0.535	0.4	87	0.00
48 T	Methyl methacrylate	0.437	0.396	9.4	82	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
 Data File : VN083273.D
 Acq On : 14 Aug 2024 02:14
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Aug 14 03:26:27 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 14 03:26:08 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	0.008	0.007	12.5	71	0.00
50 S	Toluene-d8	1.164	1.107	4.9	77	0.00
51 T	4-Methyl-2-Pentanone	0.500	0.474	5.2	80	0.00
52 CM	Toluene	0.889	0.866	2.6#	82	0.00
53 T	t-1,3-Dichloropropene	0.551	0.514	6.7	76	0.00
54 T	cis-1,3-Dichloropropene	0.586	0.535	8.7	77	0.00
55 T	1,1,2-Trichloroethane	0.318	0.320	-0.6	84	0.00
56 T	Ethyl methacrylate	0.600	0.574	4.3	81	0.00
57 T	1,3-Dichloropropane	0.568	0.569	-0.2	84	0.00
58 T	2-Chloroethyl Vinyl ether	0.254	0.243	4.3	82	0.00
59 T	2-Hexanone	0.387	0.350	9.6	77	0.00
60 T	Dibromochloromethane	0.385	0.394	-2.3	84	0.00
61 T	1,2-Dibromoethane	0.335	0.331	1.2	84	0.00
62 S	4-Bromofluorobenzene	0.454	0.432	4.8	77	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	89	0.00
64 T	Tetrachloroethene	0.331	0.321	3.0	83	0.00
65 PM	Chlorobenzene	1.105	1.051	4.9	82	0.00
66 T	1,1,1,2-Tetrachloroethane	0.390	0.373	4.4	83	0.00
67 C	Ethyl Benzene	2.027	1.943	4.1#	83	0.00
68 T	m/p-Xylenes	0.759	0.733	3.4	83	0.00
69 T	o-Xylene	0.749	0.718	4.1	83	0.00
70 T	Styrene	1.258	1.228	2.4	82	0.00
71 P	Bromoform	0.295	0.281	4.7	79	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	0.00
73 T	Isopropylbenzene	4.182	3.855	7.8	82	0.00
74 T	N-amyl acetate	2.046	1.753	14.3	79	0.00
75 P	1,1,2,2-Tetrachloroethane	1.183	1.082	8.5	84	0.00
76 T	1,2,3-Trichloropropane	1.097	0.963	12.2	82	0.00
77 T	Bromobenzene	0.929	0.880	5.3	83	0.00
78 T	n-propylbenzene	4.816	4.528	6.0	83	0.00
79 T	2-Chlorotoluene	3.053	2.805	8.1	83	0.00
80 T	1,3,5-Trimethylbenzene	3.501	3.271	6.6	83	0.00
81 T	trans-1,4-Dichloro-2-butene	0.504	0.361	28.4#	66	0.00
82 T	4-Chlorotoluene	3.062	2.847	7.0	83	0.00
83 T	tert-Butylbenzene	3.101	2.881	7.1	83	0.00
84 T	1,2,4-Trimethylbenzene	3.529	3.344	5.2	83	0.00
85 T	sec-Butylbenzene	4.231	3.923	7.3	81	0.00
86 T	p-Isopropyltoluene	3.493	3.292	5.8	81	0.00
87 T	1,3-Dichlorobenzene	1.748	1.630	6.8	83	0.00
88 T	1,4-Dichlorobenzene	1.762	1.610	8.6	82	0.00
89 T	n-Butylbenzene	3.027	2.801	7.5	79	0.00
90 T	Hexachloroethane	0.675	0.621	8.0	82	0.00
91 T	1,2-Dichlorobenzene	1.692	1.570	7.2	84	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.287	0.243	15.3	78	0.00
93 T	1,2,4-Trichlorobenzene	0.948	0.857	9.6	79	0.00
94 T	Hexachlorobutadiene	0.421	0.345	18.1	77	0.00
95 T	Naphthalene	3.357	2.957	11.9	77	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083273.D
Acq On : 14 Aug 2024 02:14
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Aug 14 03:26:27 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 14 03:26:08 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	0.938	0.852	9.2	80	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
 Data File : VN083273.D
 Acq On : 14 Aug 2024 02:14
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Aug 14 03:26:27 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 14 03:26:08 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	85	0.00
2 T	Dichlorodifluoromethane	50.000	46.006	8.0	77	0.00
3 P	Chloromethane	50.000	45.401	9.2	75	0.00
4 C	Vinyl Chloride	50.000	48.533	2.9#	81	0.00
5 T	Bromomethane	50.000	45.060	9.9	79	0.00
6 T	Chloroethane	50.000	50.390	-0.8	89	0.00
7 T	Trichlorofluoromethane	50.000	50.207	-0.4	84	0.00
8 T	Diethyl Ether	50.000	48.323	3.4	81	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	49.568	0.9	83	0.00
10 T	Methyl Iodide	50.000	43.287	13.4	70	0.00
11 T	Tert butyl alcohol	250.000	236.796	5.3	81	0.00
12 CM	1,1-Dichloroethene	50.000	45.612	8.8#	79	0.00
13 T	Acrolein	250.000	196.931	21.2	63	0.00
14 T	Allyl chloride	50.000	40.064	19.9	76	0.00
15 T	Acrylonitrile	250.000	234.853	6.1	79	0.00
16 T	Acetone	250.000	212.343	15.1	70	0.00
17 T	Carbon Disulfide	50.000	40.556	18.9	71	0.00
18 T	Methyl Acetate	50.000	48.682	2.6	88	0.00
19 T	Methyl tert-butyl Ether	50.000	48.527	2.9	81	0.00
20 T	Methylene Chloride	50.000	45.431	9.1	82	0.00
21 T	trans-1,2-Dichloroethene	50.000	46.698	6.6	79	-0.01
22 T	Diisopropyl ether	50.000	50.559	-1.1	84	0.00
23 T	Vinyl Acetate	250.000	245.427	1.8	80	0.00
24 P	1,1-Dichloroethane	50.000	50.042	-0.1	84	0.00
25 T	2-Butanone	250.000	226.614	9.4	77	0.00
26 T	2,2-Dichloropropane	50.000	33.474	33.1#	55	0.00
27 T	cis-1,2-Dichloroethene	50.000	48.436	3.1	82	0.00
28 T	Bromochloromethane	50.000	48.079	3.8	81	0.00
29 T	Tetrahydrofuran	250.000	231.937	7.2	78	0.00
30 C	Chloroform	50.000	51.757	-3.5#	86	0.00
31 T	Cyclohexane	50.000	42.764	14.5	78	0.00
32 T	1,1,1-Trichloroethane	50.000	50.731	-1.5	84	0.00
33 S	1,2-Dichloroethane-d4	50.000	49.638	0.7	80	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	88	0.00
35 S	Dibromofluoromethane	50.000	47.268	5.5	78	0.00
36 T	1,1-Dichloropropene	50.000	46.925	6.2	82	0.00
37 T	Ethyl Acetate	50.000	42.466	15.1	79	0.00
38 T	Carbon Tetrachloride	50.000	48.876	2.2	84	0.00
39 T	Methylcyclohexane	50.000	43.916	12.2	75	0.00
40 TM	Benzene	50.000	48.285	3.4	82	0.00
41 T	Methacrylonitrile	50.000	44.240	11.5	82	0.00
42 TM	1,2-Dichloroethane	50.000	49.978	0.0	86	0.00
43 T	Isopropyl Acetate	50.000	46.121	7.8	81	0.00
44 TM	Trichloroethene	50.000	48.013	4.0	82	0.00
45 C	1,2-Dichloropropane	50.000	49.443	1.1#	84	0.00
46 T	Dibromomethane	50.000	50.307	-0.6	84	0.00
47 T	Bromodichloromethane	50.000	49.897	0.2	87	0.00
48 T	Methyl methacrylate	50.000	45.281	9.4	82	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
 Data File : VN083273.D
 Acq On : 14 Aug 2024 02:14
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Aug 14 03:26:27 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 14 03:26:08 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	842.987	15.7	71	0.00
50 S	Toluene-d8	50.000	47.549	4.9	77	0.00
51 T	4-Methyl-2-Pentanone	250.000	236.978	5.2	80	0.00
52 CM	Toluene	50.000	48.733	2.5#	82	0.00
53 T	t-1,3-Dichloropropene	50.000	46.629	6.7	76	0.00
54 T	cis-1,3-Dichloropropene	50.000	45.600	8.8	77	0.00
55 T	1,1,2-Trichloroethane	50.000	50.194	-0.4	84	0.00
56 T	Ethyl methacrylate	50.000	47.798	4.4	81	0.00
57 T	1,3-Dichloropropane	50.000	50.099	-0.2	84	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	239.532	4.2	82	0.00
59 T	2-Hexanone	250.000	226.034	9.6	77	0.00
60 T	Dibromochloromethane	50.000	51.173	-2.3	84	0.00
61 T	1,2-Dibromoethane	50.000	49.436	1.1	84	0.00
62 S	4-Bromofluorobenzene	50.000	47.580	4.8	77	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	89	0.00
64 T	Tetrachloroethene	50.000	48.491	3.0	83	0.00
65 PM	Chlorobenzene	50.000	47.539	4.9	82	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	47.857	4.3	83	0.00
67 C	Ethyl Benzene	50.000	47.941	4.1#	83	0.00
68 T	m/p-Xylenes	100.000	96.479	3.5	83	0.00
69 T	o-Xylene	50.000	47.948	4.1	83	0.00
70 T	Styrene	50.000	48.825	2.3	82	0.00
71 P	Bromoform	50.000	47.541	4.9	79	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	91	0.00
73 T	Isopropylbenzene	50.000	46.093	7.8	82	0.00
74 T	N-ethyl acetate	50.000	42.845	14.3	79	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	45.722	8.6	84	0.00
76 T	1,2,3-Trichloropropane	50.000	43.886	12.2	82	0.00
77 T	Bromobenzene	50.000	47.337	5.3	83	0.00
78 T	n-propylbenzene	50.000	47.013	6.0	83	0.00
79 T	2-Chlorotoluene	50.000	45.940	8.1	83	0.00
80 T	1,3,5-Trimethylbenzene	50.000	46.717	6.6	83	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	35.795	28.4#	66	0.00
82 T	4-Chlorotoluene	50.000	46.484	7.0	83	0.00
83 T	tert-Butylbenzene	50.000	46.463	7.1	83	0.00
84 T	1,2,4-Trimethylbenzene	50.000	47.380	5.2	83	0.00
85 T	sec-Butylbenzene	50.000	46.360	7.3	81	0.00
86 T	p-Isopropyltoluene	50.000	47.118	5.8	81	0.00
87 T	1,3-Dichlorobenzene	50.000	46.613	6.8	83	0.00
88 T	1,4-Dichlorobenzene	50.000	45.682	8.6	82	0.00
89 T	n-Butylbenzene	50.000	46.266	7.5	79	0.00
90 T	Hexachloroethane	50.000	46.041	7.9	82	0.00
91 T	1,2-Dichlorobenzene	50.000	46.393	7.2	84	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	42.279	15.4	78	0.00
93 T	1,2,4-Trichlorobenzene	50.000	45.235	9.5	79	0.00
94 T	Hexachlorobutadiene	50.000	40.920	18.2	77	0.00
95 T	Naphthalene	50.000	44.043	11.9	77	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083273.D
Acq On : 14 Aug 2024 02:14
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Aug 14 03:26:27 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 14 03:26:08 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	45.439	9.1	80	0.00

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



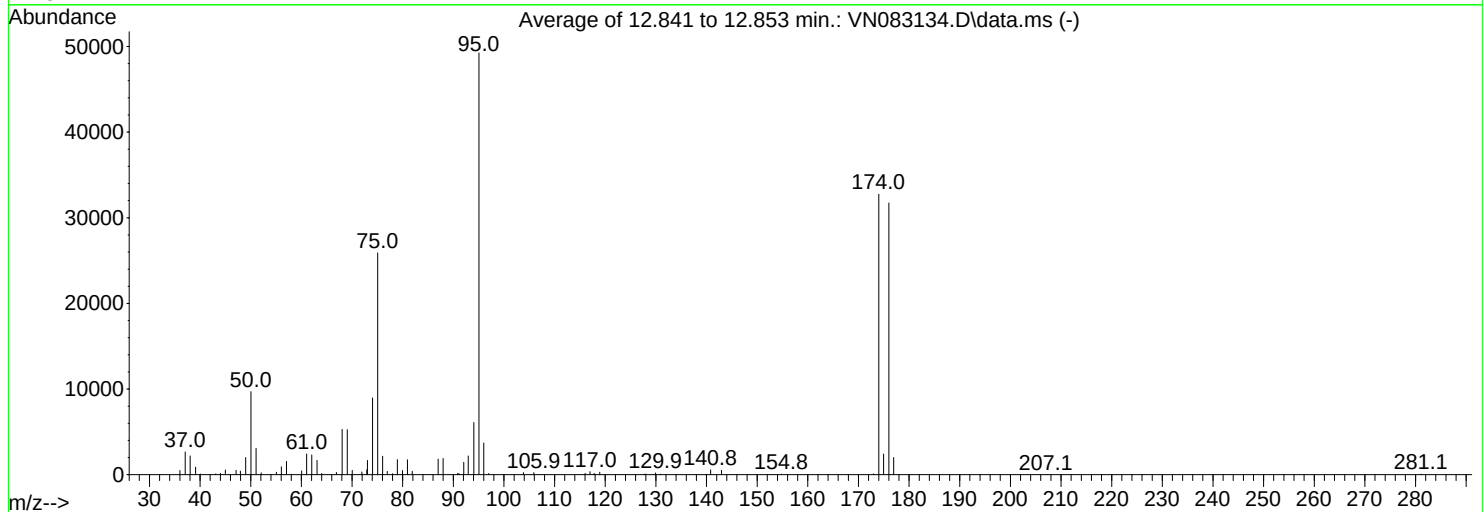
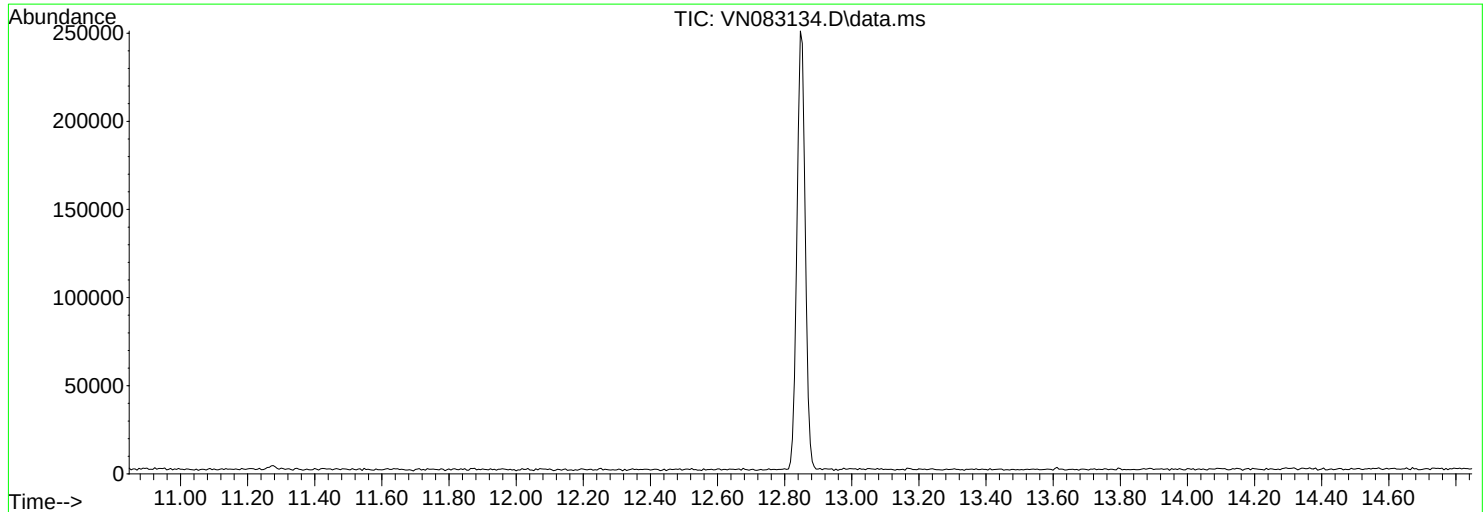
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083134.D
Acq On : 07 Aug 2024 10:09
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Title : SW846 8260
Last Update : Thu Aug 08 06:30:41 2024



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

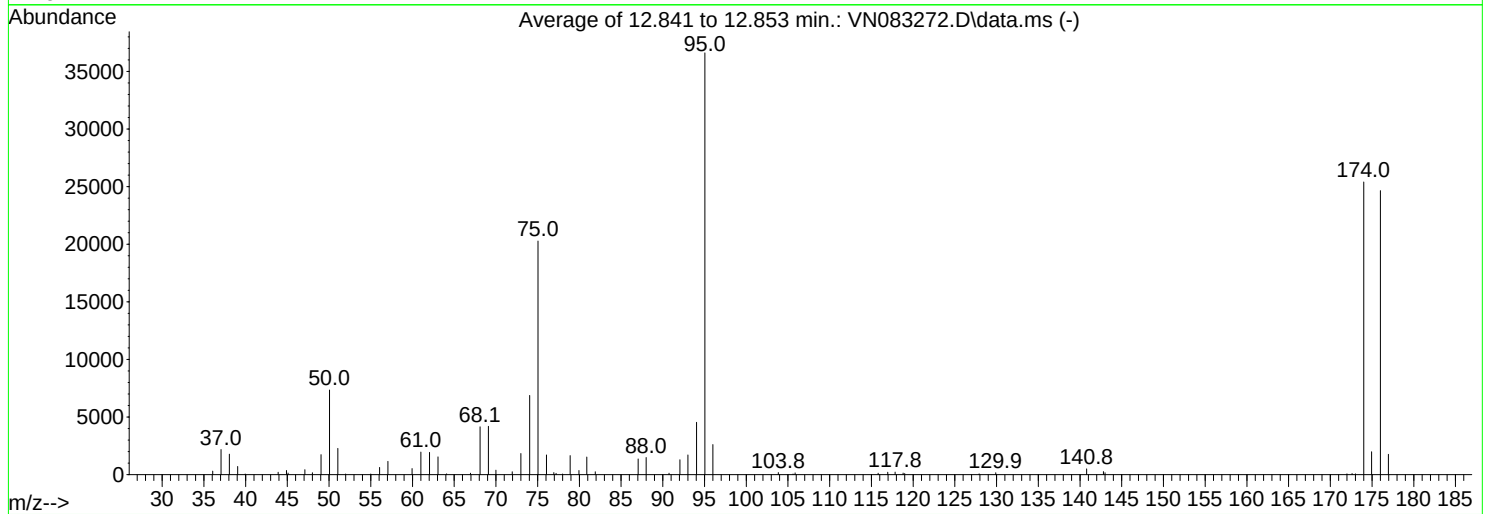
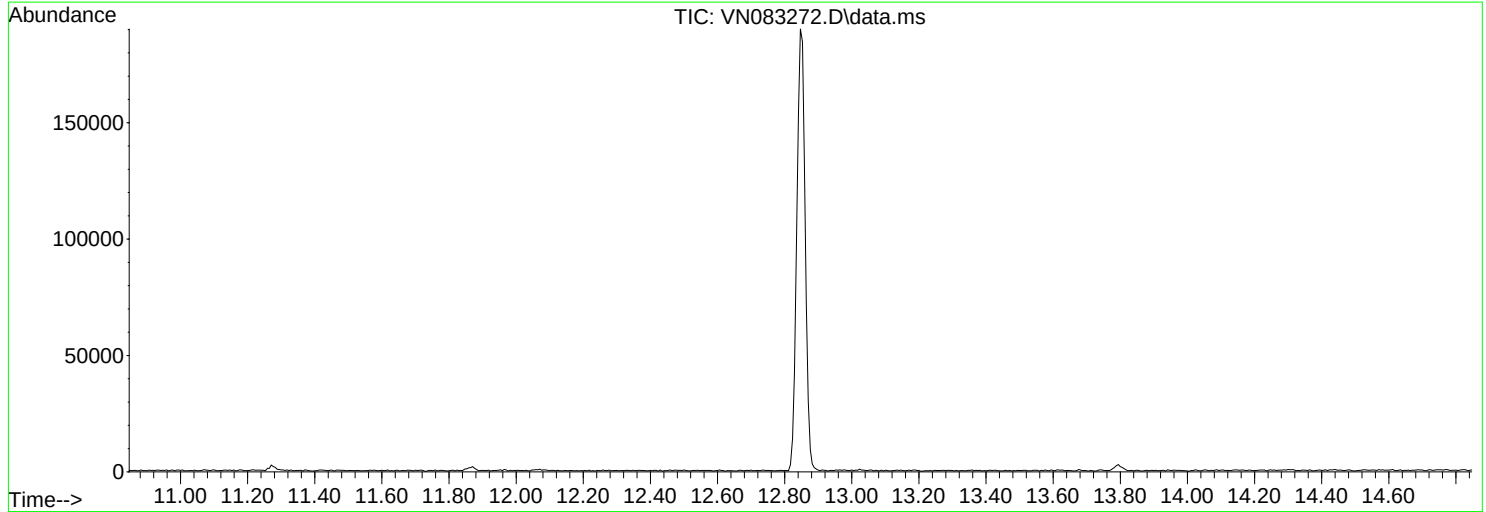
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	19.7	9690	PASS
75	95	30	60	52.6	25907	PASS
95	95	100	100	100.0	49259	PASS
96	95	5	9	7.5	3697	PASS
173	174	0.00	2	0.3	99	PASS
174	95	50	100	66.5	32749	PASS
175	174	5	9	7.4	2414	PASS
176	174	95	101	96.9	31720	PASS
177	176	5	9	6.3	1999	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083272.D
Acq On : 14 Aug 2024 01:50
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Title : SW846 8260
Last Update : Thu Aug 08 06:30:41 2024



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1844

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	20.1	7351	PASS
75	95	30	60	55.4	20288	PASS
95	95	100	100	100.0	36619	PASS
96	95	5	9	7.1	2607	PASS
173	174	0.00	2	0.3	70	PASS
174	95	50	100	69.4	25411	PASS
175	174	5	9	7.8	1990	PASS
176	174	95	101	97.0	24656	PASS
177	176	5	9	7.2	1769	PASS

Report of Analysis

Client:	JACOBS Engineering Group, Inc.		Date Collected:	
Project:	Former Schlumberger Site Princeton NJ		Date Received:	
Client Sample ID:	VN0813WBL02		SDG No.:	P3451
Lab Sample ID:	VN0813WBL02		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group6
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083274.D	1		08/14/24 03:22	VN081324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	VN0813WBL02	SDG No.:	P3451
Lab Sample ID:	VN0813WBL02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083274.D	1		08/14/24 03:22	VN081324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
1330-20-7	Total Xylenes	0.45	U	0.45	3.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.2		70 (74) - 130 (125)	112%	SPK: 50
1868-53-7	Dibromofluoromethane	52.5		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	53.7		70 (86) - 130 (113)	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	57.5		70 (77) - 130 (121)	115%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	150000	8.224			
540-36-3	1,4-Difluorobenzene	293000	9.106			
3114-55-4	Chlorobenzene-d5	300000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	135000	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\VN081324\
Data File : VN083274.D
Acq On : 14 Aug 2024 03:22
Operator : JC\MD
Sample : VN0813WBL02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBL02

Quant Time: Aug 14 04:44:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 14 03:26:08 2024
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	150257	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	292620	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	300089	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	135334	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	120249	56.224	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	112.440%
35) Dibromofluoromethane	8.165	113	95831	52.468	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	104.940%
50) Toluene-d8	10.565	98	365836	53.695	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	107.400%
62) 4-Bromofluorobenzene	12.847	95	152632	57.463	ug/l	0.00
Spiked Amount	50.000	Range	64 - 133	Recovery	=	114.920%

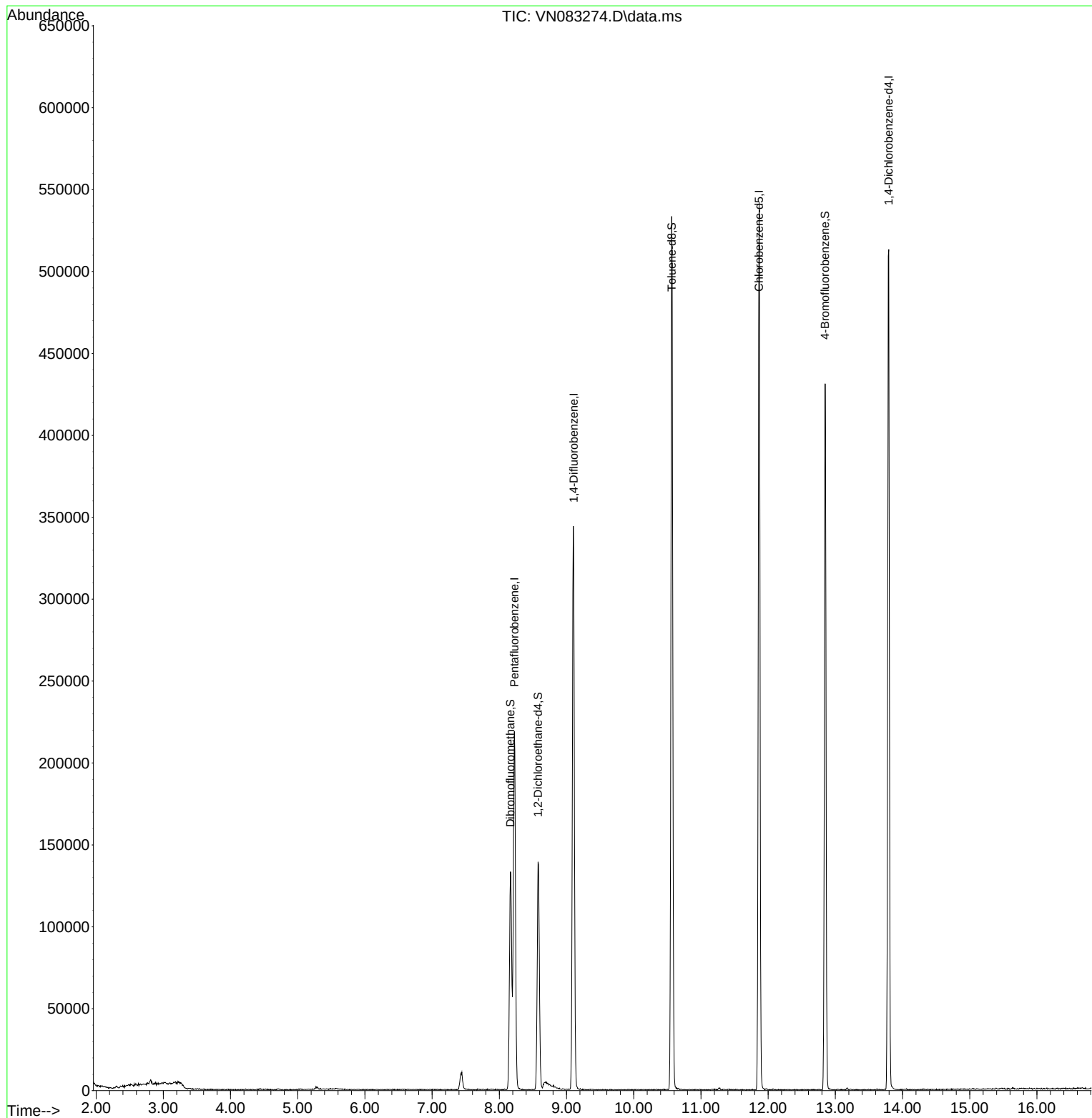
Target Compounds	Qvalue

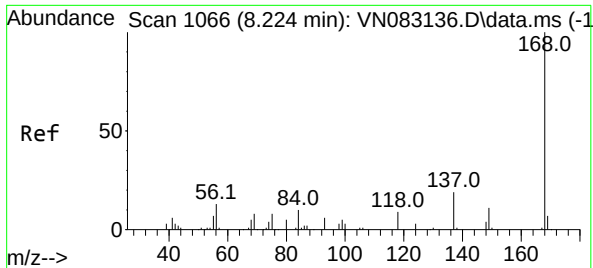
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083274.D
Acq On : 14 Aug 2024 03:22
Operator : JC\MD
Sample : VN0813WBL02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBL02

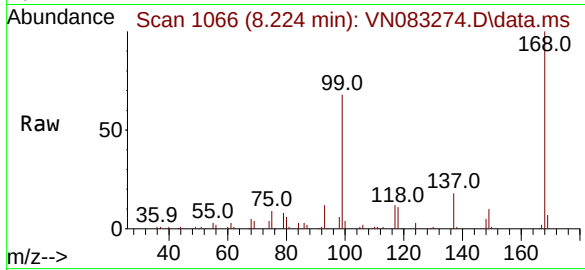
Quant Time: Aug 14 04:44:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 14 03:26:08 2024
Response via : Initial Calibration



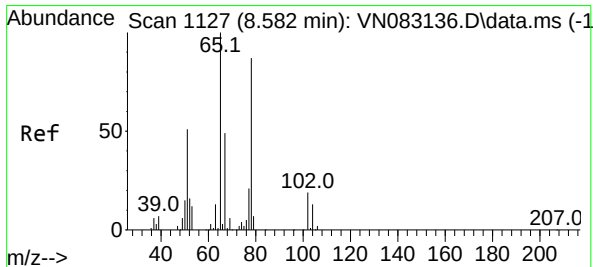
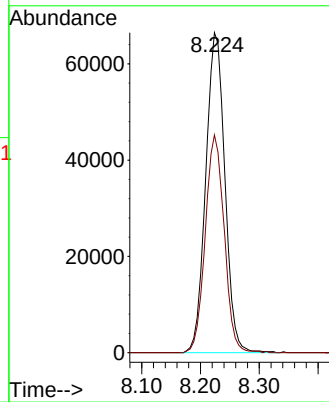
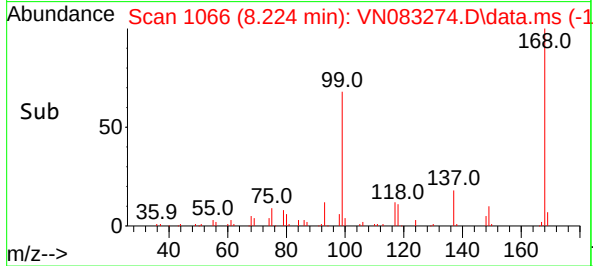


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083274.D
Acq: 14 Aug 2024 03:22

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBL02

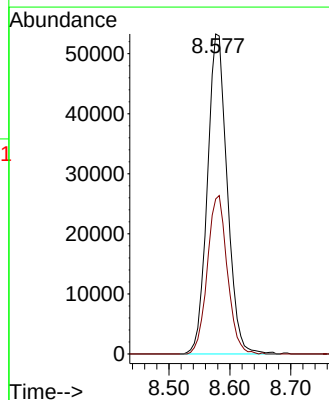
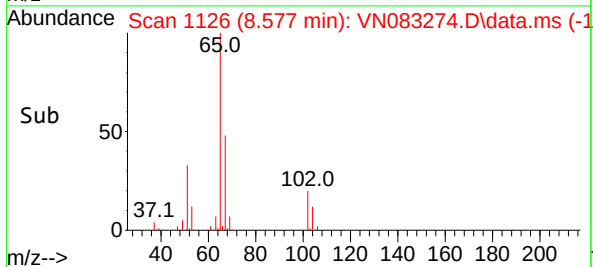
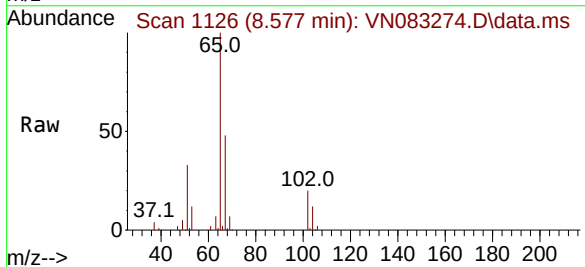


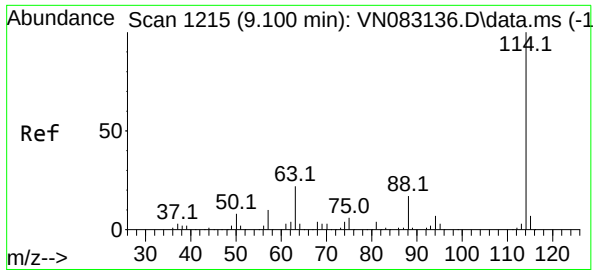
Tgt Ion:168 Resp: 150257
Ion Ratio Lower Upper
168 100
99 68.1 48.2 72.4



#33
1,2-Dichloroethane-d4
Concen: 56.224 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.006 min
Lab File: VN083274.D
Acq: 14 Aug 2024 03:22

Tgt Ion: 65 Resp: 120249
Ion Ratio Lower Upper
65 100
67 50.0 0.0 104.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN083274.D

Acq: 14 Aug 2024 03:22

Instrument :

MSVOA_N

ClientSampleId :

VN0813WBL02

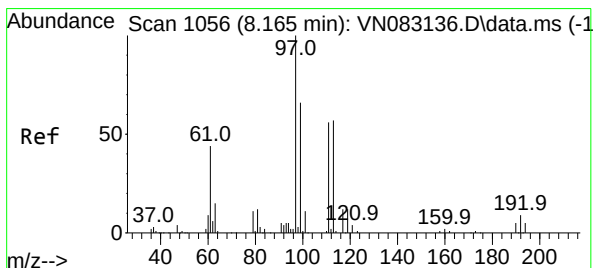
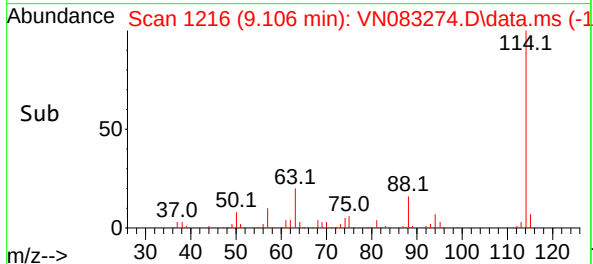
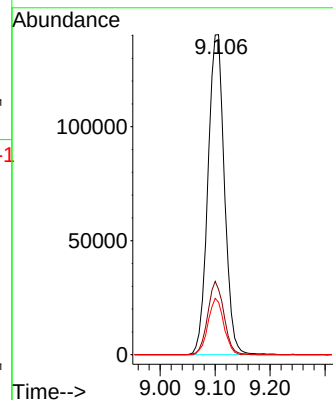
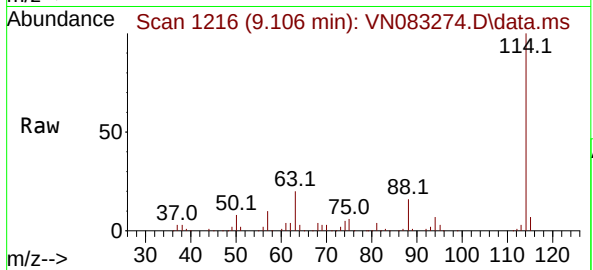
Tgt Ion:114 Resp: 292620

Ion Ratio Lower Upper

114 100

63 20.4 0.0 44.6

88 16.4 0.0 31.4



#35

Dibromofluoromethane

Concen: 52.468 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN083274.D

Acq: 14 Aug 2024 03:22

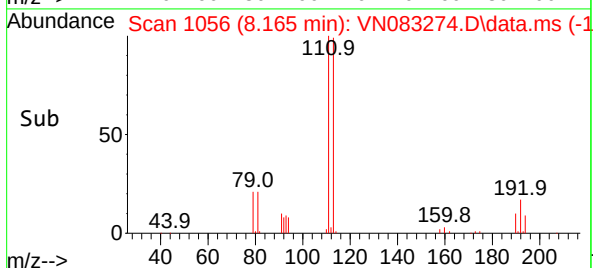
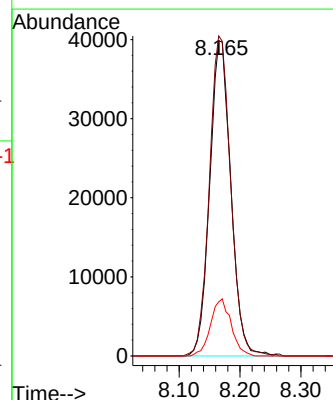
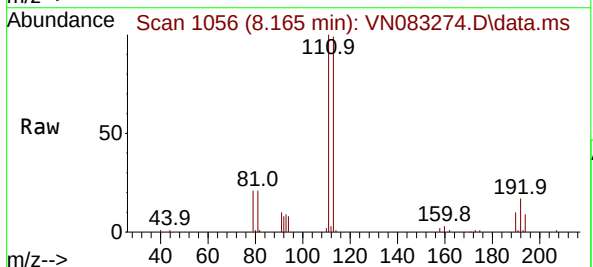
Tgt Ion:113 Resp: 95831

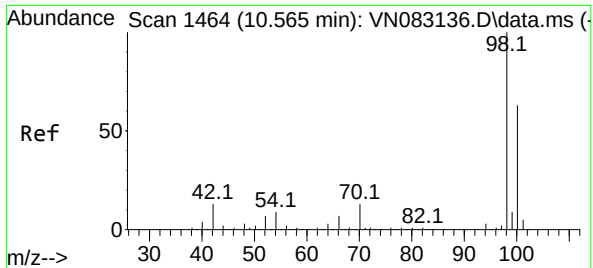
Ion Ratio Lower Upper

113 100

111 102.9 82.4 123.6

192 17.7 14.9 22.3

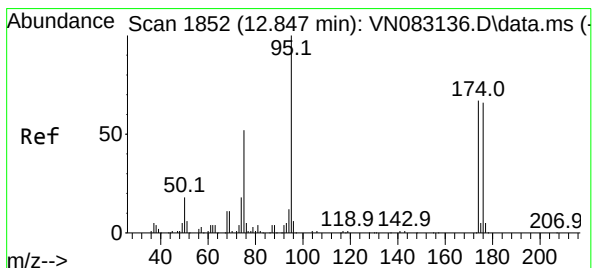
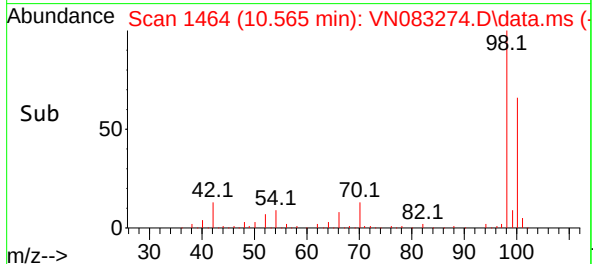
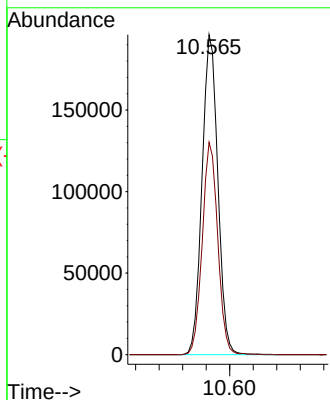
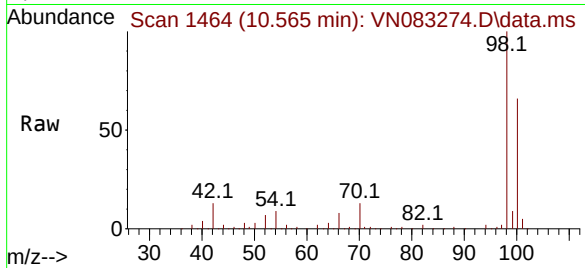




#50
Toluene-d8
Concen: 53.695 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN083274.D
Acq: 14 Aug 2024 03:22

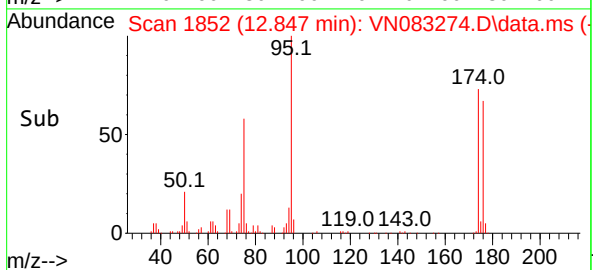
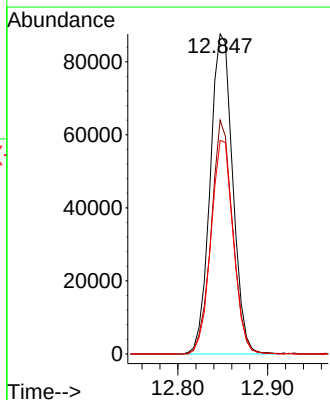
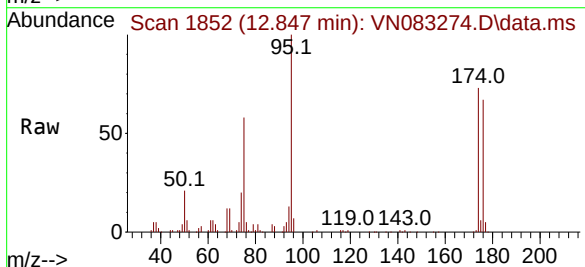
Instrument :
MSVOA_N
ClientSampleId :
VN0813WBL02

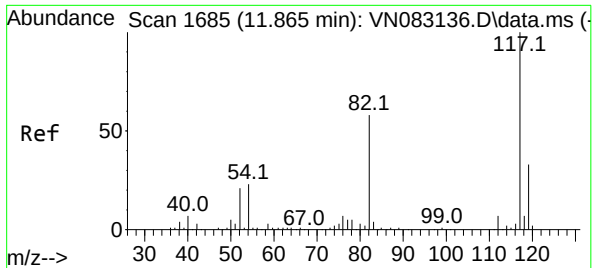
Tgt Ion: 98 Resp: 365836
Ion Ratio Lower Upper
98 100
100 65.1 51.5 77.3



#62
4-Bromofluorobenzene
Concen: 57.463 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083274.D
Acq: 14 Aug 2024 03:22

Tgt Ion: 95 Resp: 152632
Ion Ratio Lower Upper
95 100
174 69.6 0.0 159.2
176 66.3 0.0 147.6

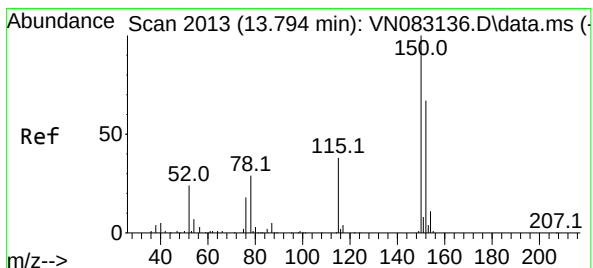
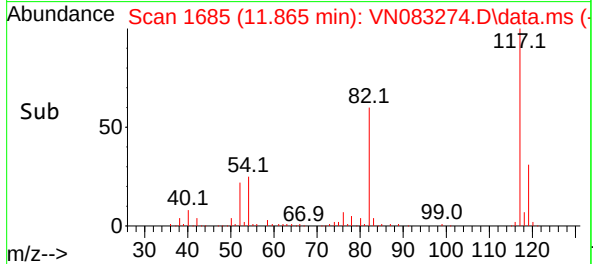
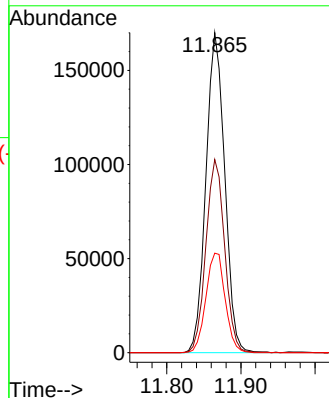
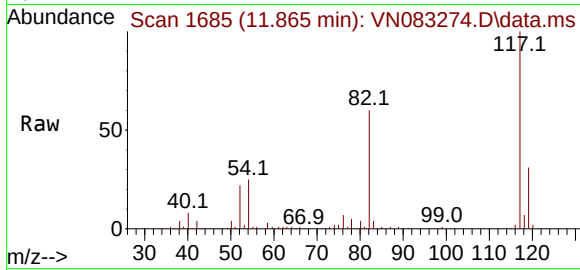




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083274.D
Acq: 14 Aug 2024 03:22

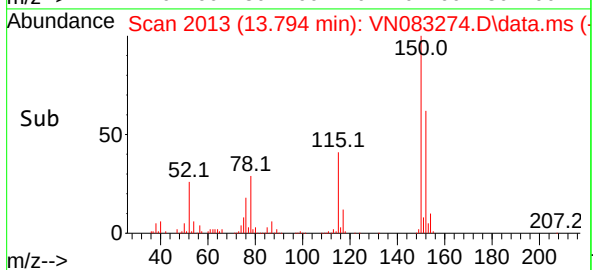
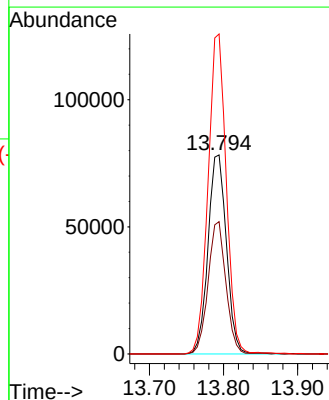
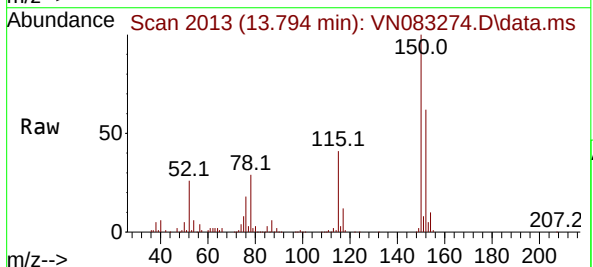
Instrument :
MSVOA_N
ClientSampleId :
VN0813WBL02

Tgt Ion:117 Resp: 300089
Ion Ratio Lower Upper
117 100
82 60.3 47.5 71.3
119 31.1 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083274.D
Acq: 14 Aug 2024 03:22

Tgt Ion:152 Resp: 135334
Ion Ratio Lower Upper
152 100
115 64.2 30.6 91.6
150 158.5 0.0 348.6



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	VN0813WBS03	SDG No.:	P3451
Lab Sample ID:	VN0813WBS03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083276.D	1		08/14/24 04:10	VN081324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.3		0.21	1.00	ug/L
74-87-3	Chloromethane	18.7		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	19.6		0.34	1.00	ug/L
74-83-9	Bromomethane	19.0		1.40	5.00	ug/L
75-00-3	Chloroethane	20.5		0.56	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.9		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.8		0.26	1.00	ug/L
67-64-1	Acetone	90.7		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	16.3		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.4		0.16	1.00	ug/L
75-09-2	Methylene Chloride	19.1		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.7		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.2		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.1		1.60	5.00	ug/L
78-93-3	2-Butanone	93.9		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.8		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.3		0.25	1.00	ug/L
67-66-3	Chloroform	20.6		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.0		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	17.5		0.19	1.00	ug/L
71-43-2	Benzene	19.6		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.6		0.24	1.00	ug/L
79-01-6	Trichloroethene	19.5		0.32	1.00	ug/L
75-27-4	Bromodichloromethane	19.6		0.24	1.00	ug/L
108-88-3	Toluene	19.2		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.5		0.21	1.00	ug/L
124-48-1	Dibromochloromethane	20.1		0.18	1.00	ug/L
127-18-4	Tetrachloroethene	20.1		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.6		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	19.6		0.16	1.00	ug/L

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	VN0813WBS03	SDG No.:	P3451
Lab Sample ID:	VN0813WBS03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083276.D	1		08/14/24 04:10	VN081324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
179601-23-1	m/p-Xylenes	38.8		0.31	2.00	ug/L
1330-20-7	Total Xylenes	58.5		0.45	3.00	ug/L
95-47-6	o-Xylene	19.7		0.14	1.00	ug/L
98-82-8	Isopropylbenzene	19.2		0.13	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.9		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.4		0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.2		70 (74) - 130 (125)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	54.1		70 (75) - 130 (124)	108%	SPK: 50
2037-26-5	Toluene-d8	54.2		70 (86) - 130 (113)	108%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.7		70 (77) - 130 (121)	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	164000	8.224			
540-36-3	1,4-Difluorobenzene	288000	9.1			
3114-55-4	Chlorobenzene-d5	245000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	115000	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 OC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
 Data File : VN083276.D
 Acq On : 14 Aug 2024 04:10
 Operator : JC\MD
 Sample : VN0813WBS03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0813WBS03

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/14/2024
 Supervised By : Mahesh Dadoda 08/14/2024

Quant Time: Aug 14 04:46:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 14 03:26:08 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	163931	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	287598	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	244933	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	114554	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	133576	57.246	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 114.500%			
35) Dibromofluoromethane	8.165	113	97126	54.105	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.220%			
50) Toluene-d8	10.570	98	362852	54.187	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 108.380%			
62) 4-Bromofluorobenzene	12.847	95	137472	52.660	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 105.320%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	34089	18.337	ug/l	97
3) Chloromethane	2.365	50	35501	18.653	ug/l	100
4) Vinyl Chloride	2.518	62	38096	19.617	ug/l	97
5) Bromomethane	2.953	94	22880	18.987	ug/l	97
6) Chloroethane	3.118	64	24855	20.457	ug/l	99
7) Trichlorofluoromethane	3.494	101	64893	20.227	ug/l	98
8) Diethyl Ether	3.959	74	22857	19.146	ug/l	84
9) 1,1,2-Trichlorotrifluo...	4.377	101	35250	19.929	ug/l	99
10) Methyl Iodide	4.589	142	38802	16.677	ug/l	92
11) Tert butyl alcohol	5.518	59	43702	90.122	ug/l	98
12) 1,1-Dichloroethene	4.341	96	34107	18.769	ug/l	89
13) Acrolein	4.183	56	22430	70.972	ug/l	97
14) Allyl chloride	5.030	41	53739	15.649	ug/l	94
15) Acrylonitrile	5.718	53	96132	96.392	ug/l	98
16) Acetone	4.430	43	82780	90.664	ug/l	99
17) Carbon Disulfide	4.712	76	86537	16.275	ug/l	100
18) Methyl Acetate	5.024	43	55252	20.311	ug/l	94
19) Methyl tert-butyl Ether	5.800	73	127570	19.449	ug/l	95
20) Methylene Chloride	5.277	84	40117	19.091	ug/l #	81
21) trans-1,2-Dichloroethene	5.788	96	35083	18.679	ug/l	86
22) Diisopropyl ether	6.671	45	129944	20.131	ug/l	95
23) Vinyl Acetate	6.606	43	632863	95.651	ug/l #	95
24) 1,1-Dichloroethane	6.565	63	71229	20.244	ug/l	99
25) 2-Butanone	7.482	43	131638	93.897	ug/l	95
26) 2,2-Dichloropropane	7.494	77	43342	13.264	ug/l	98
27) cis-1,2-Dichloroethene	7.482	96	43758	19.307	ug/l	90
28) Bromochloromethane	7.812	49	26160	18.193	ug/l	90
29) Tetrahydrofuran	7.841	42	87153	96.167	ug/l	89
30) Chloroform	7.971	83	75140	20.556	ug/l	98
31) Cyclohexane	8.253	56	62468	18.065	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	69276	20.022	ug/l	96
36) 1,1-Dichloropropene	8.371	75	50932	18.756	ug/l	99
37) Ethyl Acetate	7.559	43	53362	17.551	ug/l	95
38) Carbon Tetrachloride	8.365	117	60557	19.799	ug/l	99
39) Methylcyclohexane	9.600	83	58313	17.483	ug/l	92
40) Benzene	8.606	78	158212	19.557	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
 Data File : VN083276.D
 Acq On : 14 Aug 2024 04:10
 Operator : JC\MD
 Sample : VN0813WBS03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0813WBS03

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/14/2024
 Supervised By : Mahesh Dadoda 08/14/2024

Quant Time: Aug 14 04:46:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 14 03:26:08 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	30123	17.425	ug/l	94
42) 1,2-Dichloroethane	8.671	62	60727	20.607	ug/l	98
43) Isopropyl Acetate	8.688	43	104783	18.450	ug/l	97
44) Trichloroethene	9.353	130	37538	19.495	ug/l	100
45) 1,2-Dichloropropane	9.623	63	39295	20.464	ug/l	95
46) Dibromomethane	9.712	93	27427	19.955	ug/l	99
47) Bromodichloromethane	9.888	83	60383	19.566	ug/l	97
48) Methyl methacrylate	9.682	41	43935	17.478	ug/l #	90
49) 1,4-Dioxane	9.694	88	16735	369.020	ug/l	98
51) 4-Methyl-2-Pentanone	10.447	43	279412	97.180	ug/l	94
52) Toluene	10.629	92	98181	19.209	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	57201	18.044	ug/l	97
54) cis-1,3-Dichloropropene	10.312	75	60905	18.063	ug/l #	87
55) 1,1,2-Trichloroethane	11.018	97	37469	20.455	ug/l	98
56) Ethyl methacrylate	10.876	69	65633	19.007	ug/l #	85
57) 1,3-Dichloropropane	11.165	76	64276	19.687	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	138157	94.650	ug/l	96
59) 2-Hexanone	11.194	43	207806	93.423	ug/l	93
60) Dibromochloromethane	11.359	129	44526	20.105	ug/l	97
61) 1,2-Dibromoethane	11.470	107	37905	19.699	ug/l	100
64) Tetrachloroethene	11.106	164	32561	20.073	ug/l	97
65) Chlorobenzene	11.888	112	106146	19.611	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	38528	20.183	ug/l	97
67) Ethyl Benzene	11.965	91	194254	19.563	ug/l	99
68) m/p-Xylenes	12.070	106	144204	38.770	ug/l	97
69) o-Xylene	12.400	106	72430	19.744	ug/l	99
70) Styrene	12.412	104	119958	19.470	ug/l	98
71) Bromoform	12.576	173	27583	19.073	ug/l #	98
73) Isopropylbenzene	12.694	105	183586	19.160	ug/l	99
74) N-amyl acetate	12.494	43	83867	17.895	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.935	83	53757	19.837	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	47050m	18.714	ug/l	
77) Bromobenzene	12.982	156	41635	19.561	ug/l	96
78) n-propylbenzene	13.035	91	211685	19.187	ug/l	100
79) 2-Chlorotoluene	13.123	91	137489	19.656	ug/l	97
80) 1,3,5-Trimethylbenzene	13.170	105	154286	19.233	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.735	75	16220	14.033	ug/l	98
82) 4-Chlorotoluene	13.223	91	134043	19.104	ug/l	96
83) tert-Butylbenzene	13.441	119	137808	19.399	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	154805	19.149	ug/l	100
85) sec-Butylbenzene	13.617	105	183957	18.978	ug/l	100
86) p-Isopropyltoluene	13.729	119	154726	19.332	ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	75232	18.784	ug/l	97
88) 1,4-Dichlorobenzene	13.811	146	76298	18.897	ug/l	96
89) n-Butylbenzene	14.053	91	128512	18.531	ug/l	100
90) Hexachloroethane	14.335	117	28062	18.148	ug/l	93
91) 1,2-Dichlorobenzene	14.106	146	75067	19.369	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	12122	18.433	ug/l	98
93) 1,2,4-Trichlorobenzene	15.394	180	39783	18.323	ug/l	98
94) Hexachlorobutadiene	15.500	225	16158	16.733	ug/l	99
95) Naphthalene	15.641	128	139064	18.081	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	38544	17.941	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083276.D
Acq On : 14 Aug 2024 04:10
Operator : JC\MD
Sample : VN0813WBS03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

Quant Time: Aug 14 04:46:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 14 03:26:08 2024
Response via : Initial Calibration

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

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

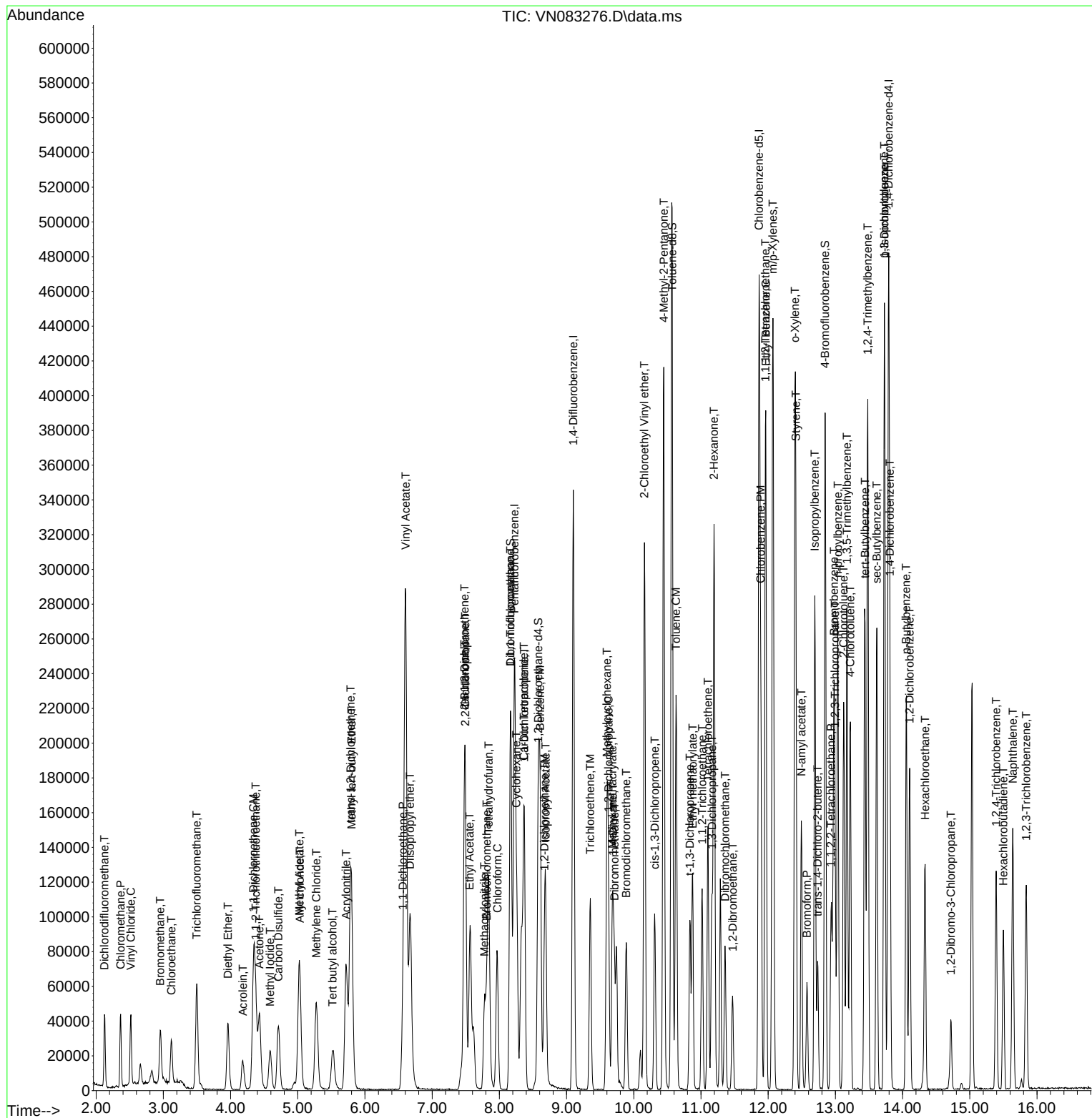
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083276.D
Acq On : 14 Aug 2024 04:10
Operator : JC\MD
Sample : VN0813WBS03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 37 Sample Multiplier: 1

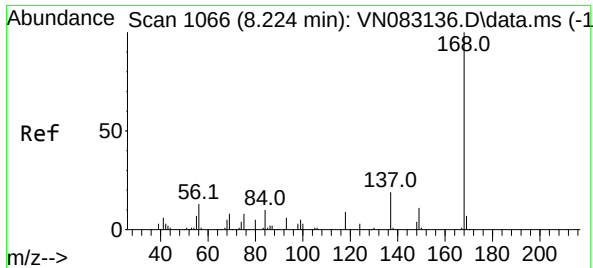
Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Manual Integrations

Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

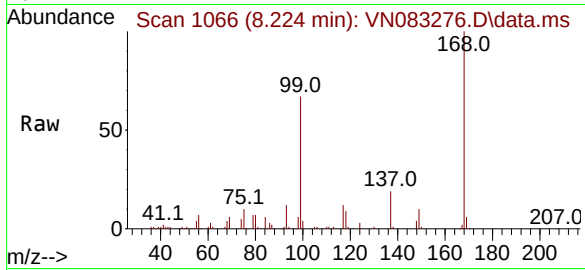
Quant Time: Aug 14 04:46:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 14 03:26:08 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

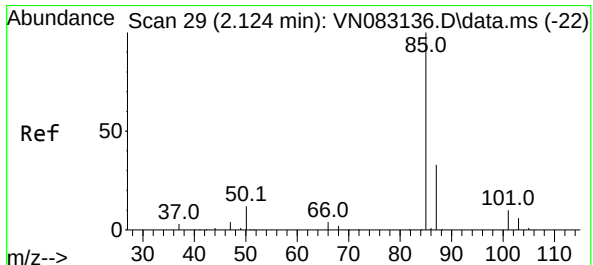
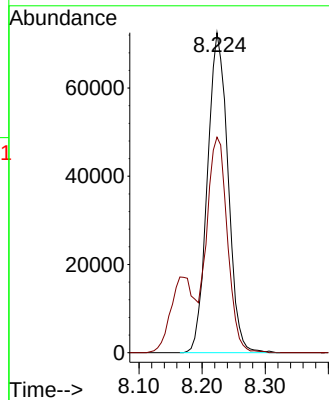
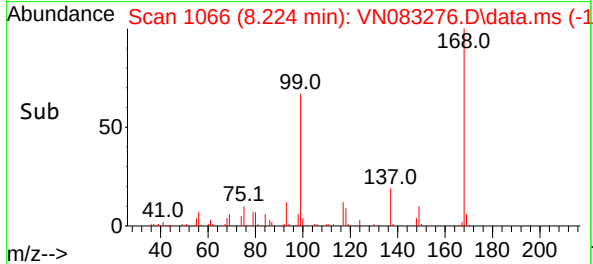
Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03



Tgt Ion:168 Resp: 16393
Ion Ratio Lower Upper
168 100
99 67.4 48.2 72.4

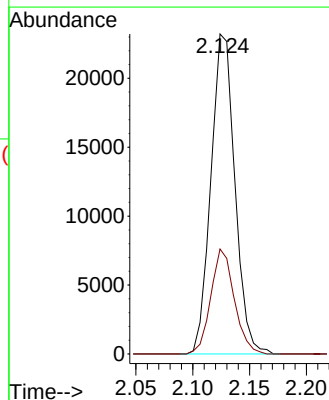
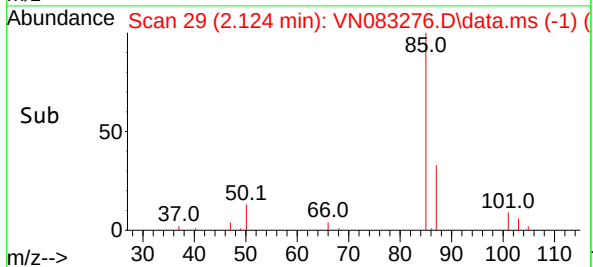
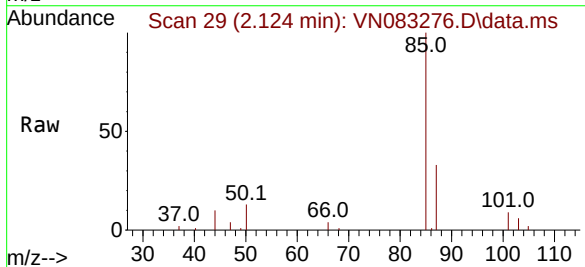
Manual Integrations
APPROVED

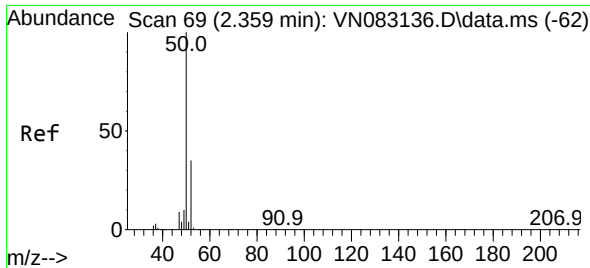
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#2
Dichlorodifluoromethane
Concen: 18.337 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

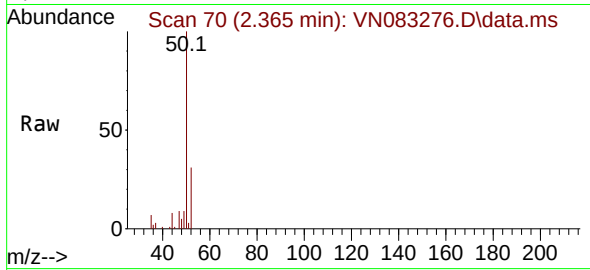
Tgt Ion: 85 Resp: 34089
Ion Ratio Lower Upper
85 100
87 32.8 15.7 47.0





#3
Chloromethane
Concen: 18.653 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

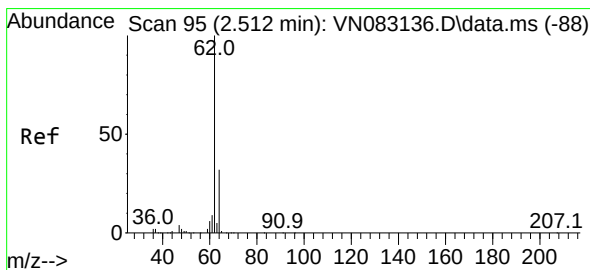
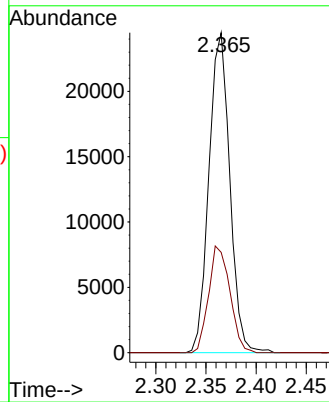
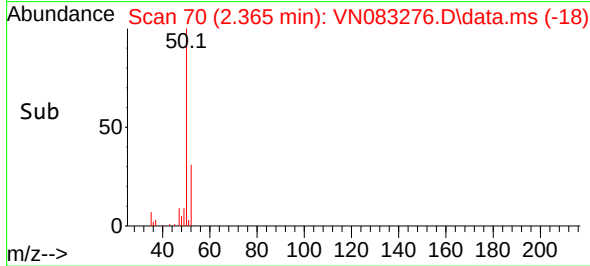
Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03



Tgt Ion: 50 Resp: 3550
Ion Ratio Lower Upper
50 100
52 31.4 25.0 37.4

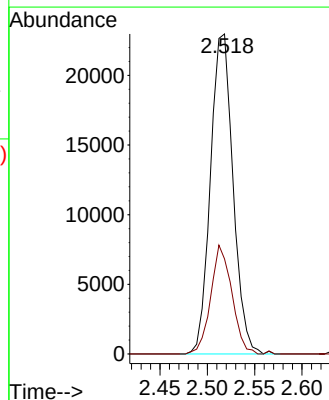
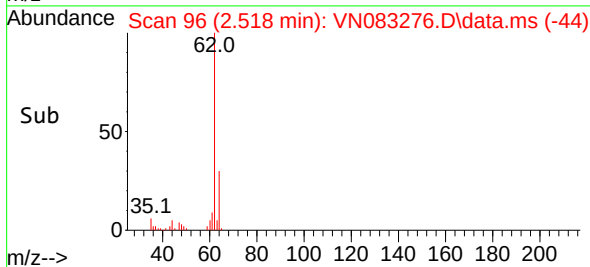
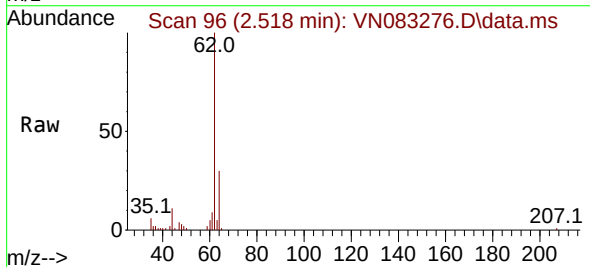
Manual Integrations
APPROVED

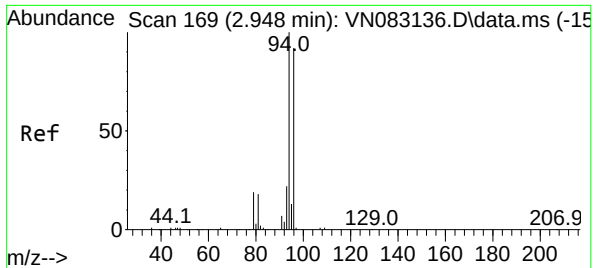
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#4
Vinyl Chloride
Concen: 19.617 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

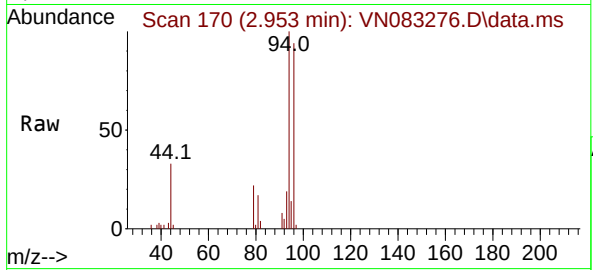
Tgt Ion: 62 Resp: 38096
Ion Ratio Lower Upper
62 100
64 29.7 25.0 37.6





#5
Bromomethane
Concen: 18.987 ug/l
RT: 2.953 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

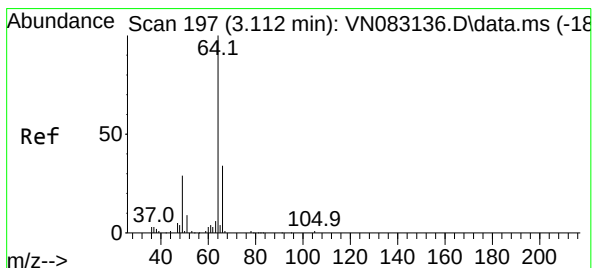
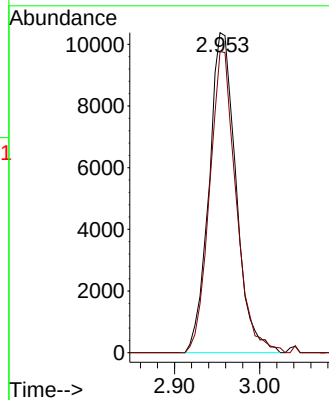
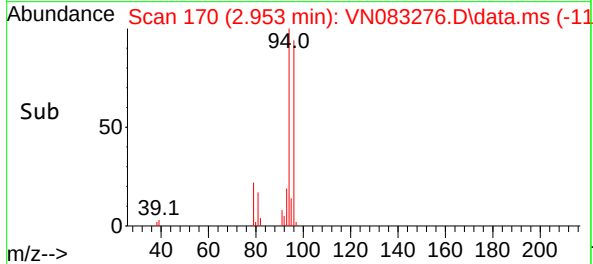
Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03



Tgt Ion: 94 Resp: 22880
Ion Ratio Lower Upper
94 100
96 94.1 78.0 117.0

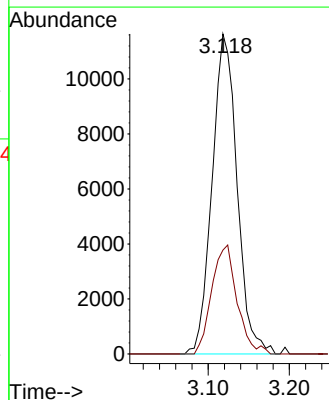
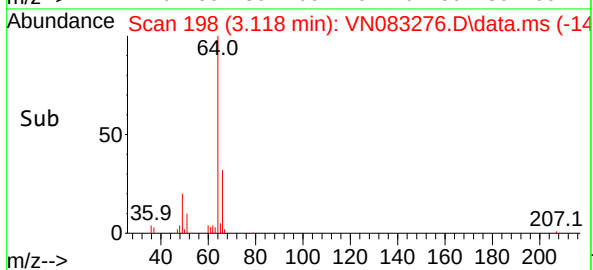
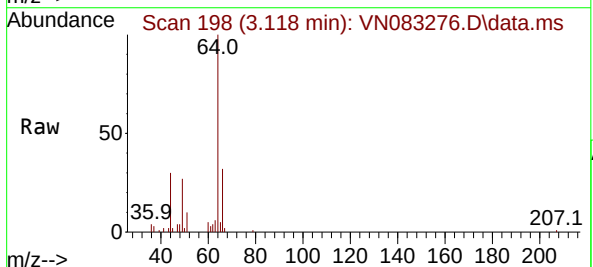
Manual Integrations
APPROVED

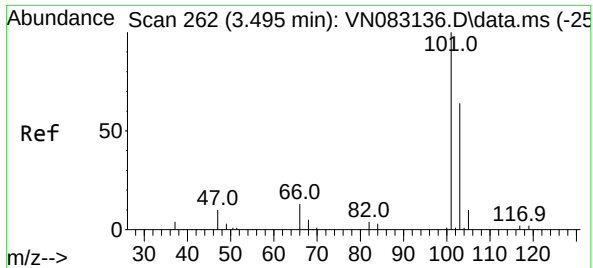
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#6
Chloroethane
Concen: 20.457 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.006 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

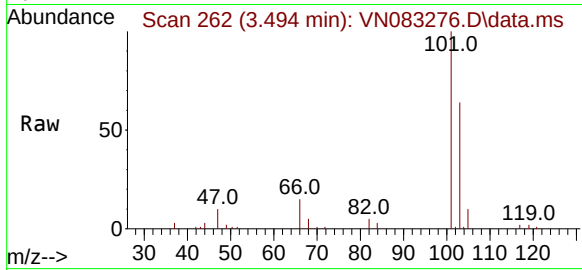
Tgt Ion: 64 Resp: 24855
Ion Ratio Lower Upper
64 100
66 32.5 26.6 40.0





#7
Trichlorofluoromethane
Concen: 20.227 ug/l
RT: 3.494 min Scan# 262
Delta R.T. -0.001 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

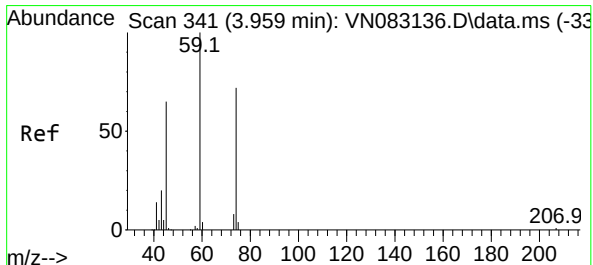
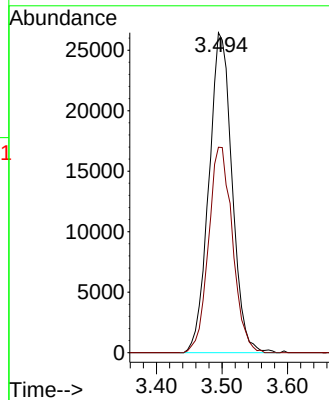
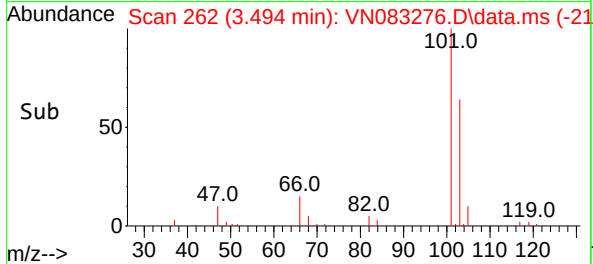
Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03



Tgt Ion:101 Resp: 6489
Ion Ratio Lower Upper
101 100
103 64.2 52.7 79.1

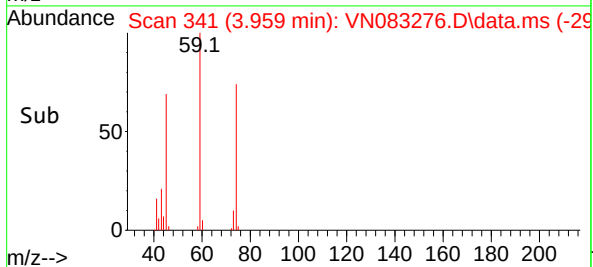
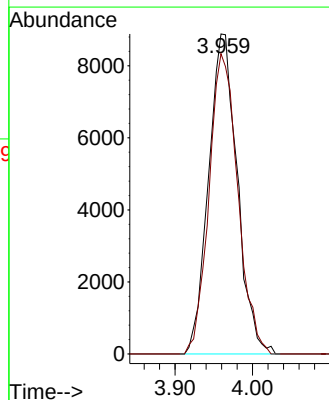
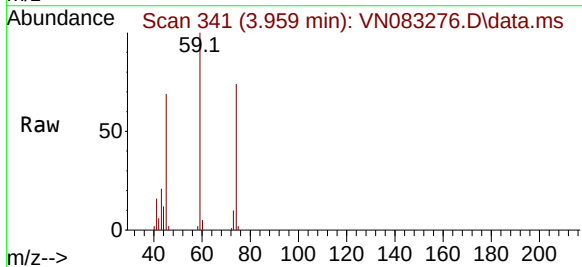
Manual Integrations
APPROVED

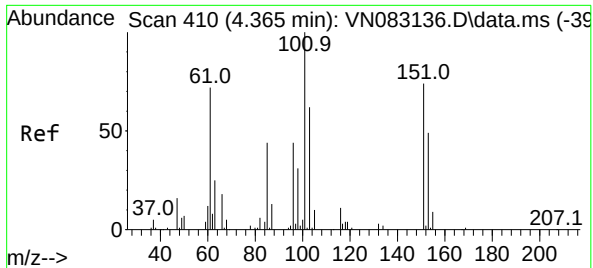
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#8
Diethyl Ether
Concen: 19.146 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 74 Resp: 22857
Ion Ratio Lower Upper
74 100
45 94.2 55.5 166.3





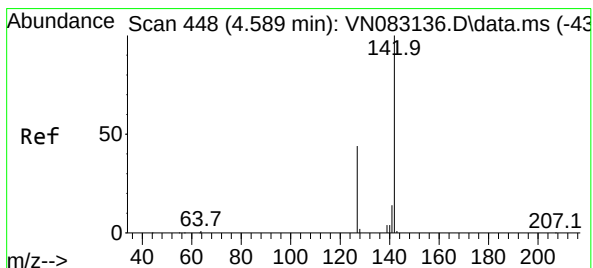
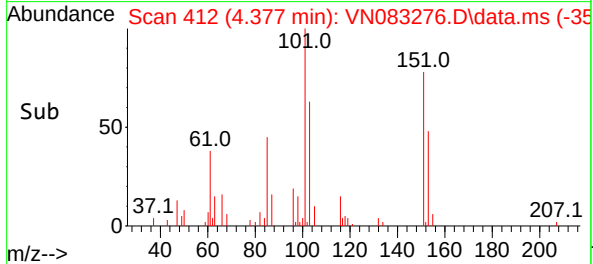
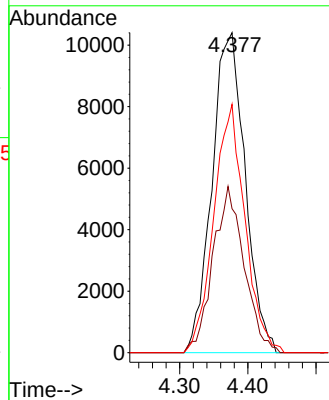
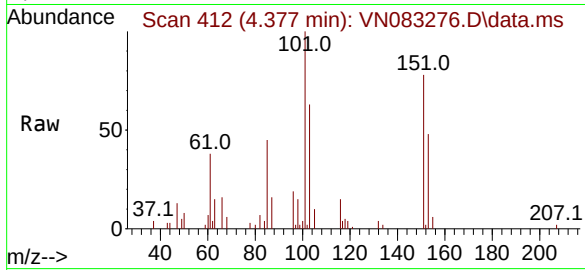
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.929 ug/l
RT: 4.377 min Scan# 410
Delta R.T. 0.012 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Tgt Ion:101 Resp: 35250
Ion Ratio Lower Upper
101 100
85 48.9 38.3 57.5
151 73.0 59.3 88.9

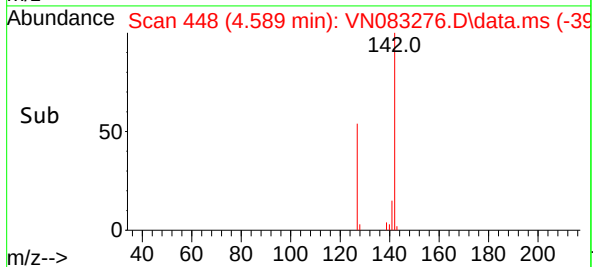
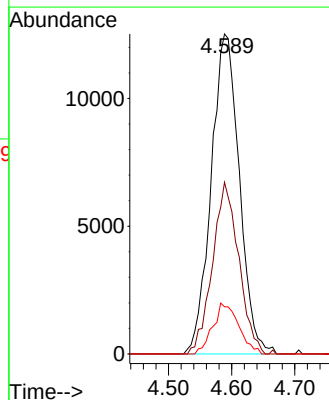
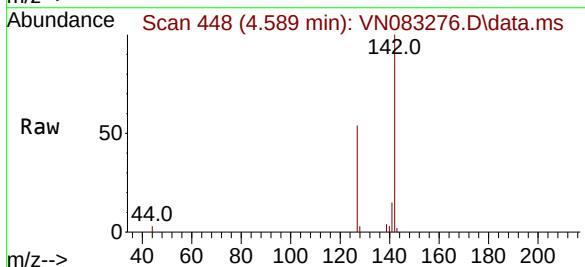
Manual Integrations
APPROVED

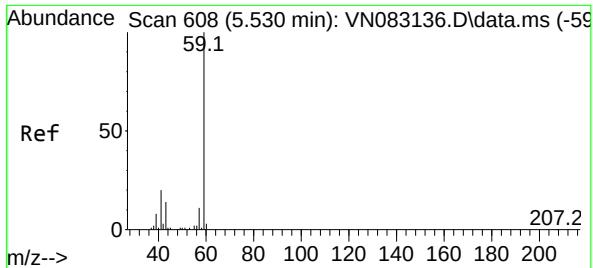
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#10
Methyl Iodide
Concen: 16.677 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion:142 Resp: 38802
Ion Ratio Lower Upper
142 100
127 53.6 37.5 56.3
141 14.8 13.1 19.7





#11

Tert butyl alcohol

Concen: 90.122 ug/l

RT: 5.518 min Scan# 608

Delta R.T. -0.012 min

Lab File: VN083276.D

Acq: 14 Aug 2024 04:10

Instrument :

MSVOA_N

ClientSampleId :

VN0813WBS03

Tgt Ion: 59 Resp: 43702

Ion Ratio Lower Upper

59 100

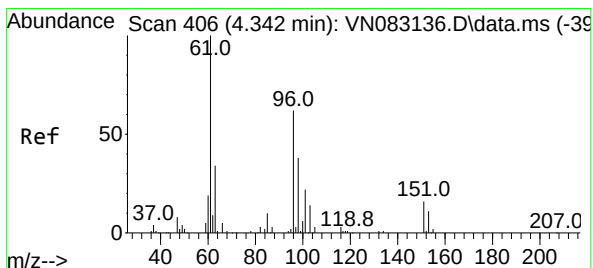
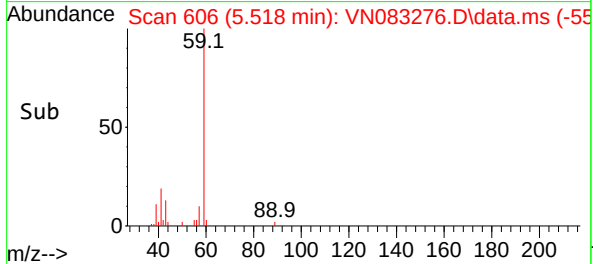
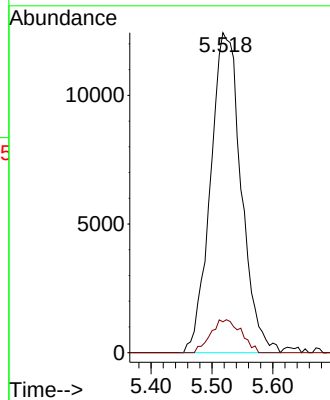
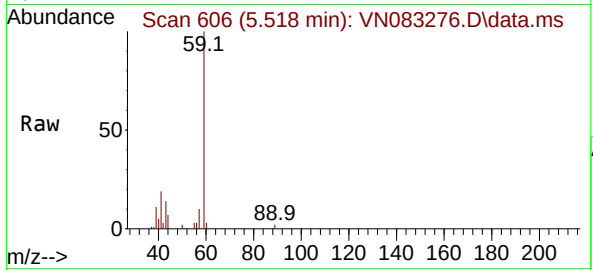
57 10.2 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#12

1,1-Dichloroethene

Concen: 18.769 ug/l

RT: 4.341 min Scan# 406

Delta R.T. -0.000 min

Lab File: VN083276.D

Acq: 14 Aug 2024 04:10

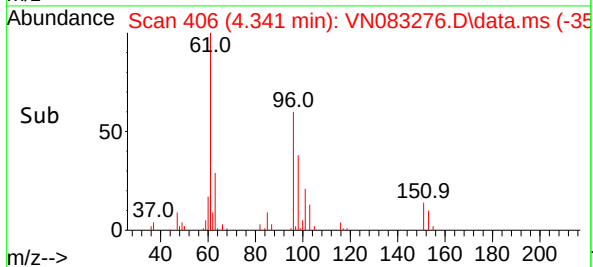
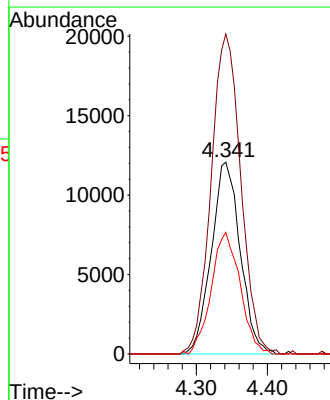
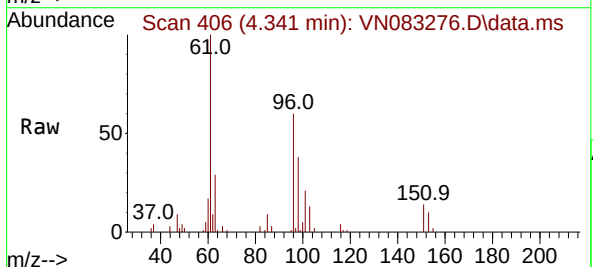
Tgt Ion: 96 Resp: 34107

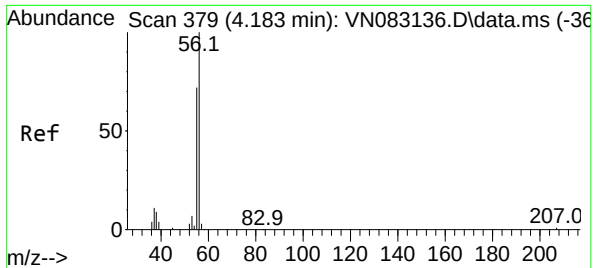
Ion Ratio Lower Upper

96 100

61 166.8 149.7 224.5

98 63.4 50.1 75.1





#13

Acrolein

Concen: 70.972 ug/l

RT: 4.183 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN083276.D

Acq: 14 Aug 2024 04:10

Instrument :

MSVOA_N

ClientSampleId :

VN0813WBS03

Tgt Ion: 56 Resp: 22430

Ion Ratio Lower Upper

56 100

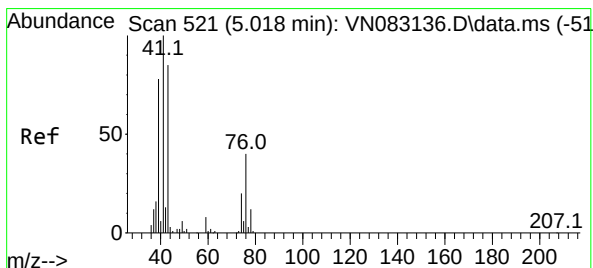
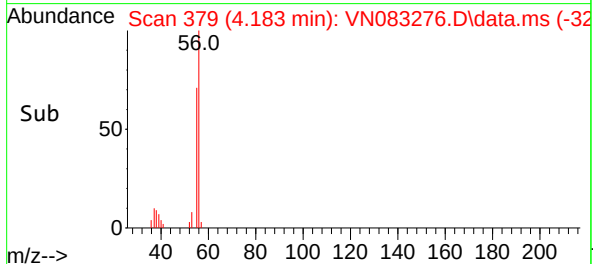
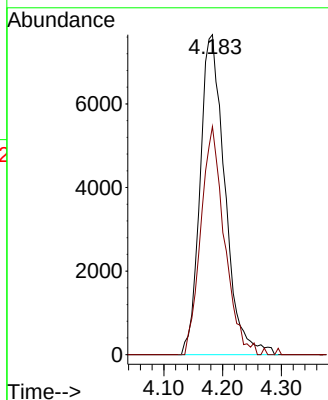
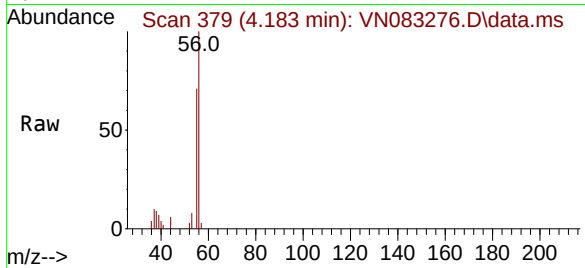
55 67.9 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#14

Allyl chloride

Concen: 15.649 ug/l

RT: 5.030 min Scan# 523

Delta R.T. 0.012 min

Lab File: VN083276.D

Acq: 14 Aug 2024 04:10

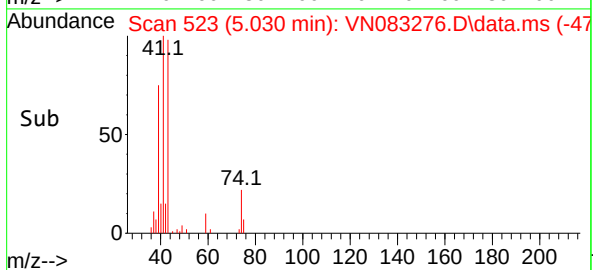
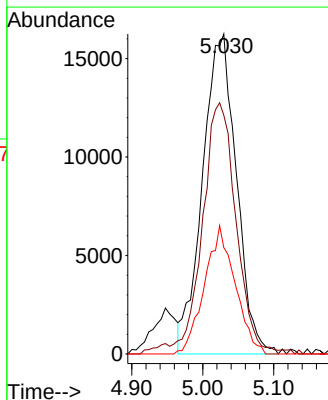
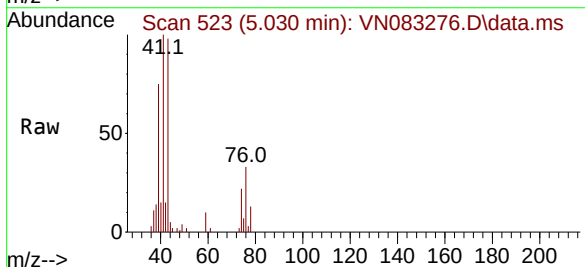
Tgt Ion: 41 Resp: 53739

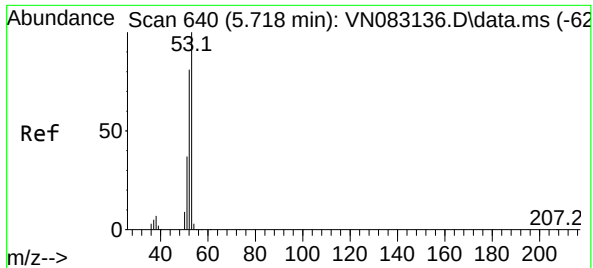
Ion Ratio Lower Upper

41 100

39 79.3 67.8 101.6

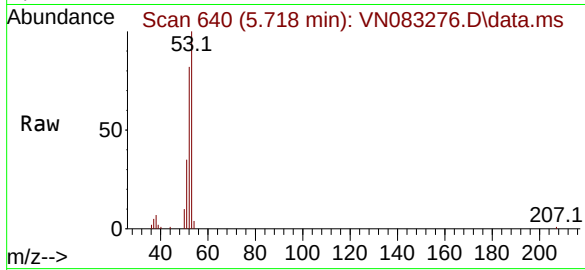
76 36.2 25.8 38.8





#15
Acrylonitrile
Concen: 96.392 ug/l
RT: 5.718 min Scan# 640
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

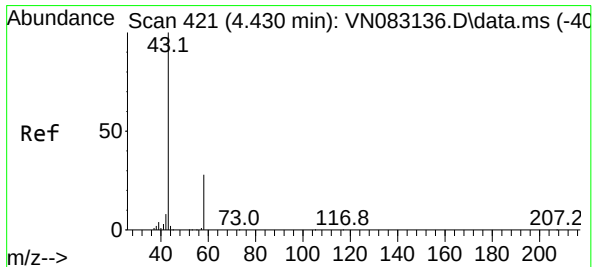
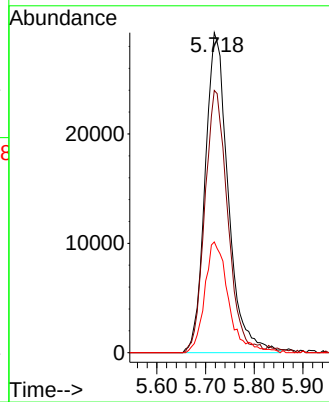
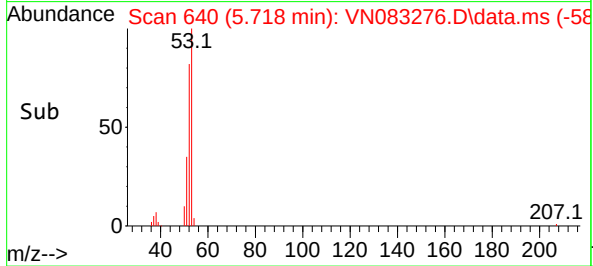
Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03



Tgt Ion: 53 Resp: 96132
Ion Ratio Lower Upper
53 100
52 81.5 66.6 100.0
51 35.8 30.1 45.1

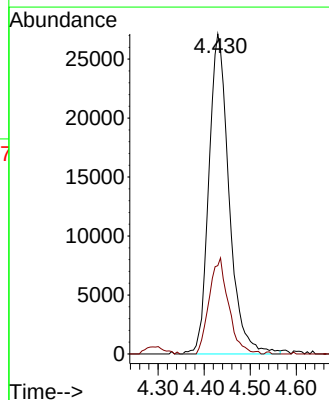
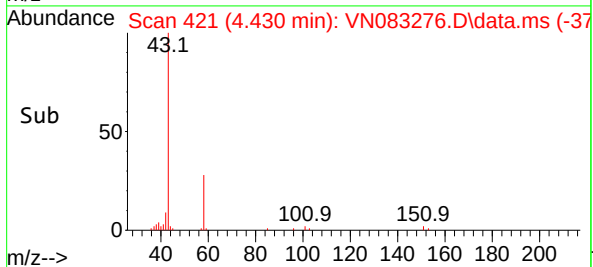
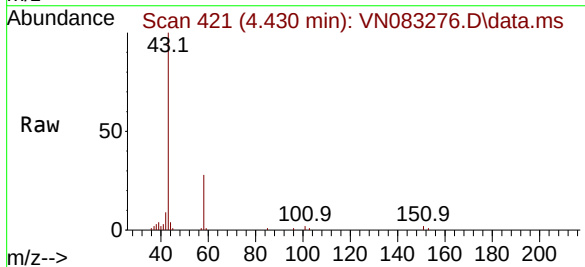
Manual Integrations
APPROVED

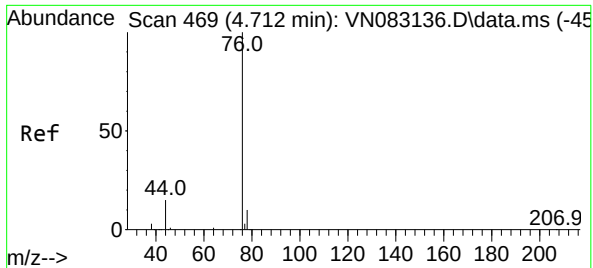
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#16
Acetone
Concen: 90.664 ug/l
RT: 4.430 min Scan# 421
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

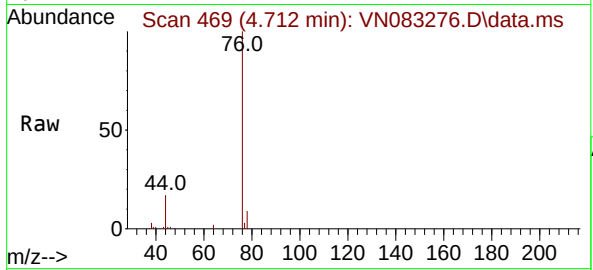
Tgt Ion: 43 Resp: 82780
Ion Ratio Lower Upper
43 100
58 27.6 21.8 32.6





#17
Carbon Disulfide
Concen: 16.275 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

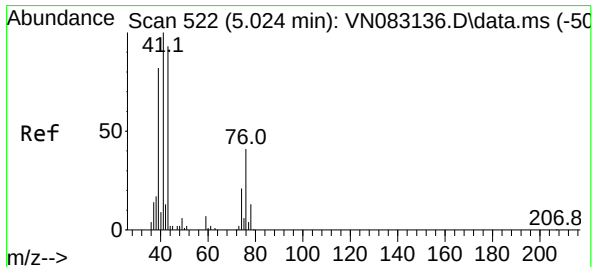
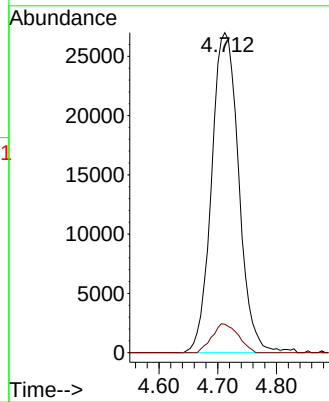
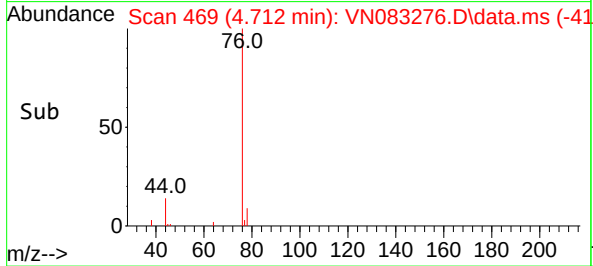
Instrument :
MSVOA_N
Client SampleId :
VN0813WBS03



Tgt Ion: 76 Resp: 8653
Ion Ratio Lower Upper
76 100
78 8.8 7.2 10.8

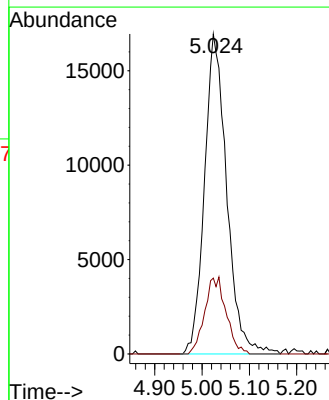
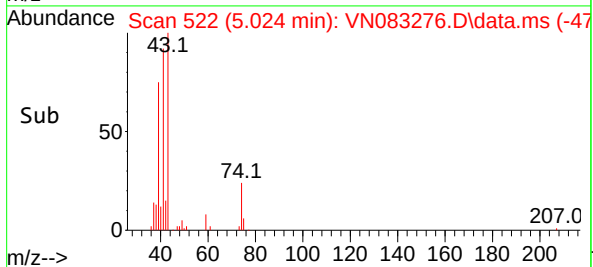
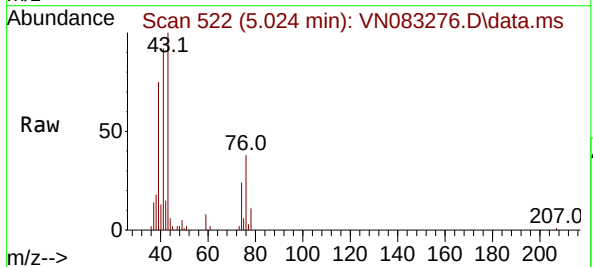
Manual Integrations
APPROVED

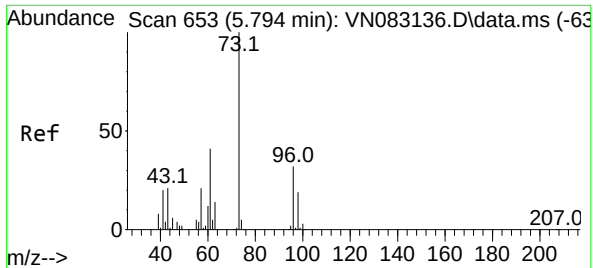
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#18
Methyl Acetate
Concen: 20.311 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 43 Resp: 55252
Ion Ratio Lower Upper
43 100
74 23.1 16.3 24.5





#19

Methyl tert-butyl Ether

Concen: 19.449 ug/l

RT: 5.800 min Scan# 654

Delta R.T. 0.006 min

Lab File: VN083276.D

Acq: 14 Aug 2024 04:10

Instrument :

MSVOA_N

ClientSampleId :

VN0813WBS03

Tgt Ion: 73 Resp: 127570

Ion Ratio Lower Upper

73 100

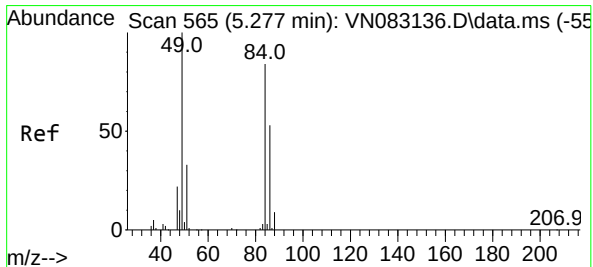
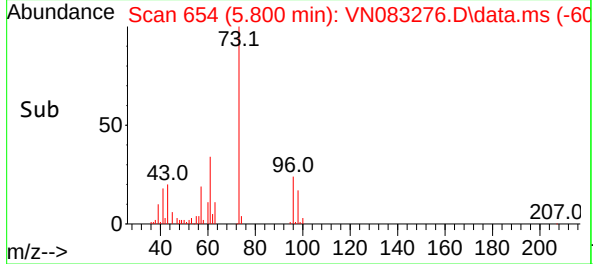
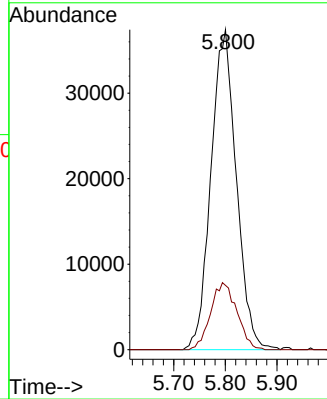
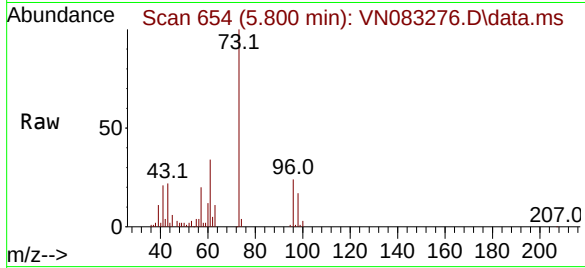
57 20.1 17.9 26.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#20

Methylene Chloride

Concen: 19.091 ug/l

RT: 5.277 min Scan# 565

Delta R.T. -0.000 min

Lab File: VN083276.D

Acq: 14 Aug 2024 04:10

Tgt Ion: 84 Resp: 40117

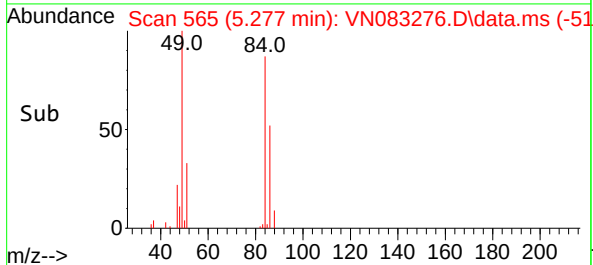
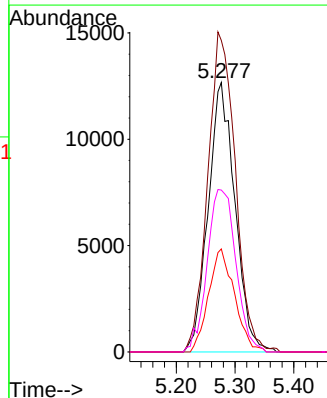
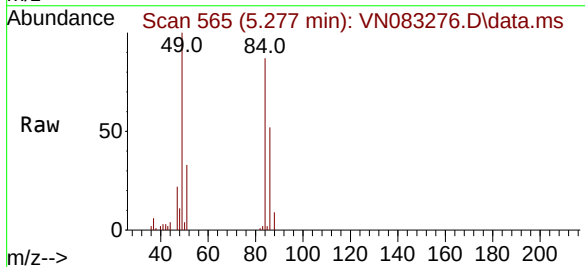
Ion Ratio Lower Upper

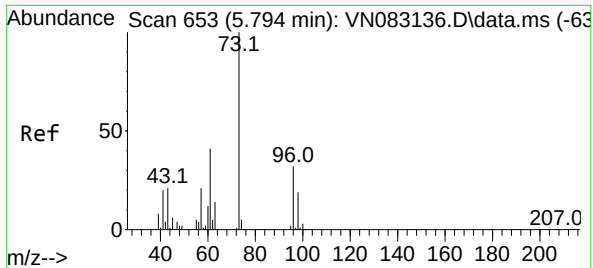
84 100

49 115.6 119.6 179.4#

51 38.2 34.8 52.2

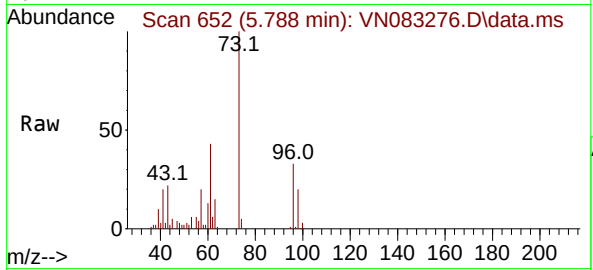
86 60.1 52.9 79.3





#21
trans-1,2-Dichloroethene
Concen: 18.679 ug/l
RT: 5.788 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

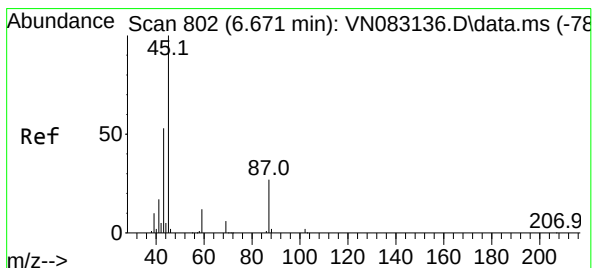
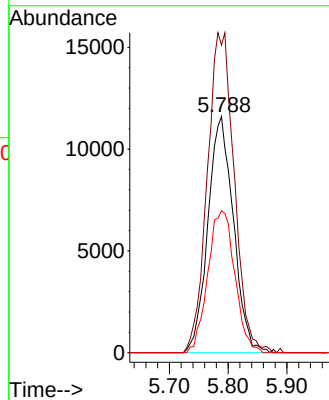
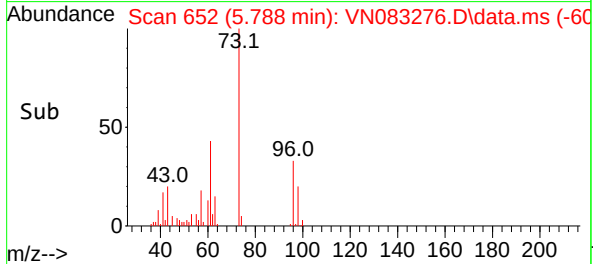
Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03



Tgt Ion: 96 Resp: 3508
Ion Ratio Lower Upper
96 100
61 130.2 123.4 185.2
98 60.1 49.3 73.9

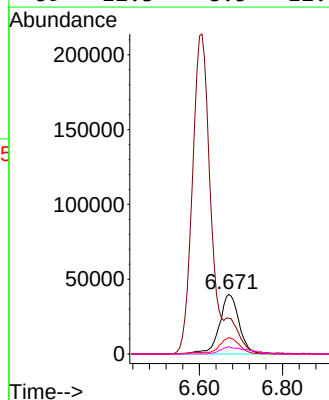
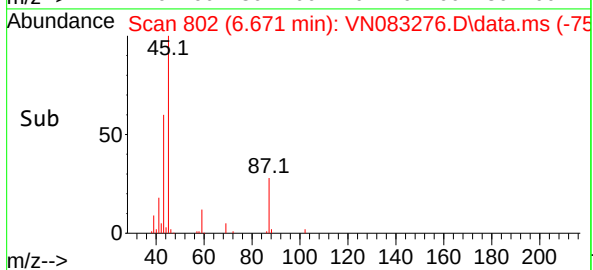
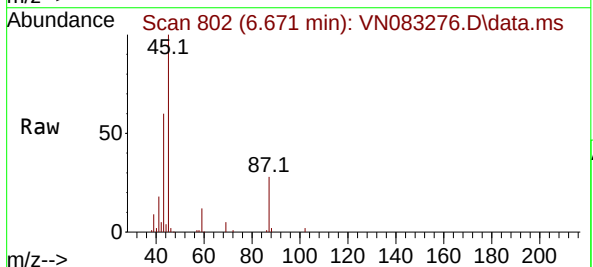
Manual Integrations
APPROVED

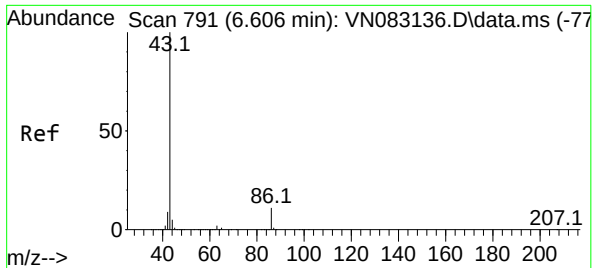
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#22
Diisopropyl ether
Concen: 20.131 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 45 Resp: 129944
Ion Ratio Lower Upper
45 100
43 58.8 44.0 66.0
87 27.8 19.7 29.5
59 12.3 8.5 12.7





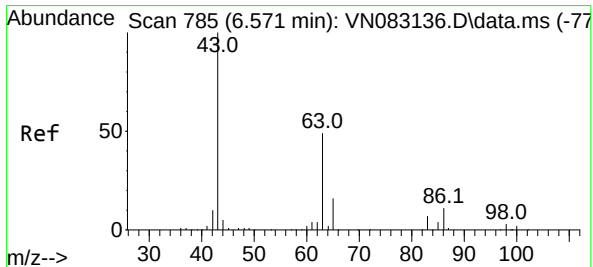
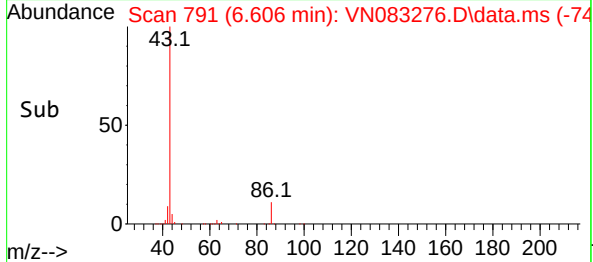
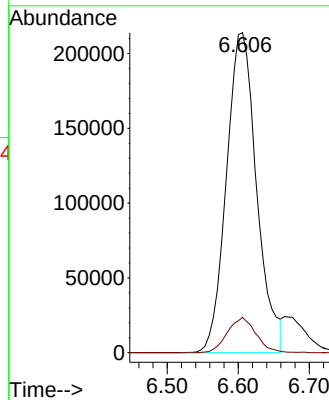
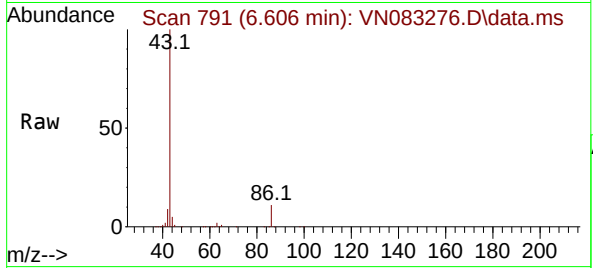
#23
Vinyl Acetate
Concen: 95.651 ug/l
RT: 6.606 min Scan# 791
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Tgt Ion: 43 Resp: 63286
Ion Ratio Lower Upper
43 100
86 11.0 7.3 10.9

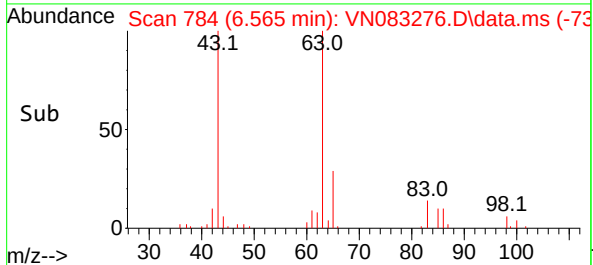
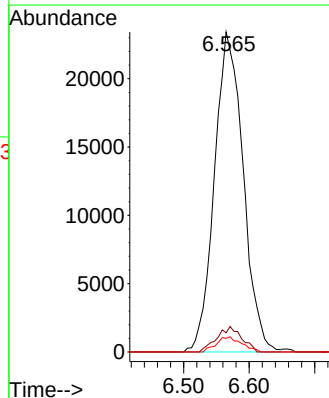
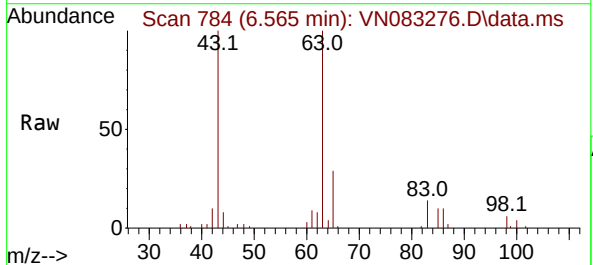
Manual Integrations
APPROVED

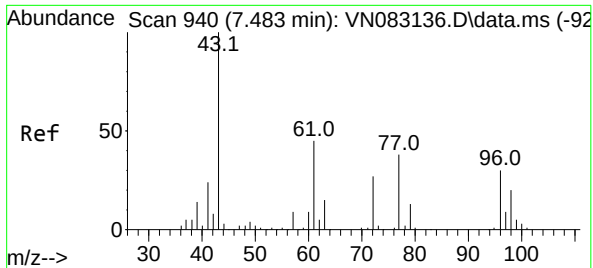
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#24
1,1-Dichloroethane
Concen: 20.244 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.006 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

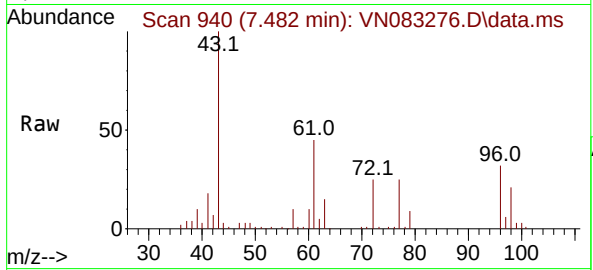
Tgt Ion: 63 Resp: 71229
Ion Ratio Lower Upper
63 100
98 6.0 3.3 9.9
100 4.3 2.0 6.0





#25
2-Butanone
Concen: 93.897 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

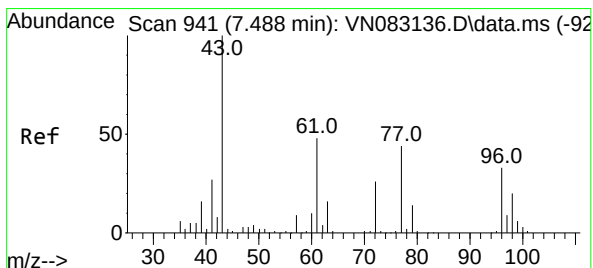
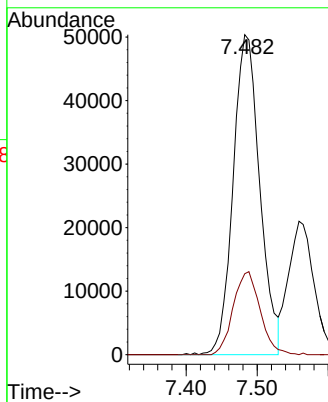
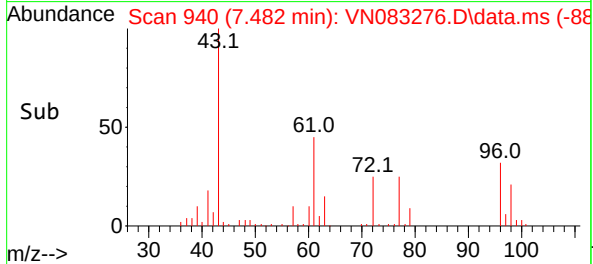
Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03



Tgt Ion: 43 Resp: 131638
Ion Ratio Lower Upper
43 100
72 25.3 18.2 27.2

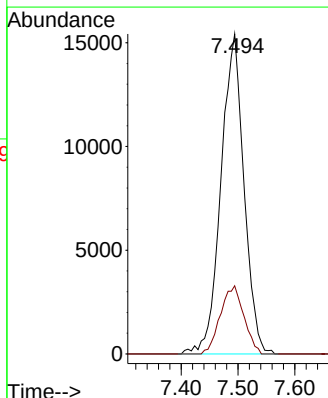
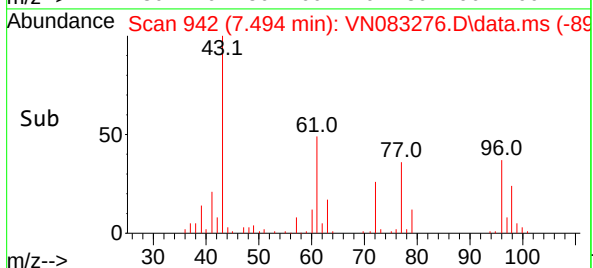
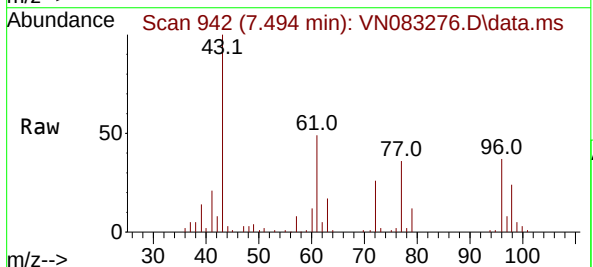
Manual Integrations
APPROVED

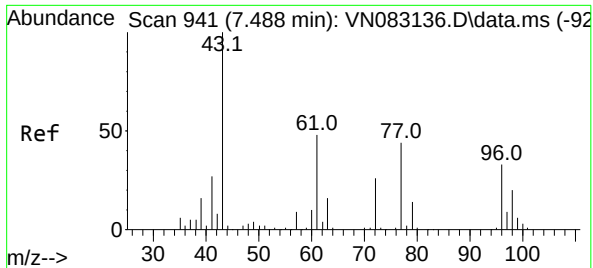
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#26
2,2-Dichloropropane
Concen: 13.264 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.006 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

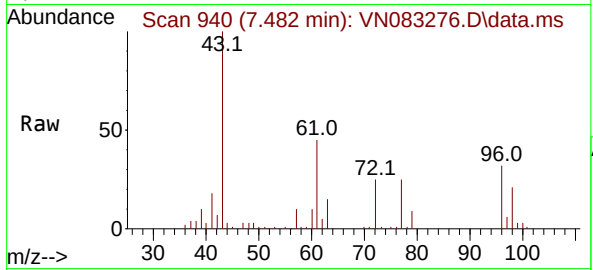
Tgt Ion: 77 Resp: 43342
Ion Ratio Lower Upper
77 100
97 21.8 10.3 30.9





#27
 cis-1,2-Dichloroethene
 Concen: 19.307 ug/l
 RT: 7.482 min Scan# 941
 Delta R.T. -0.006 min
 Lab File: VN083276.D
 Acq: 14 Aug 2024 04:10

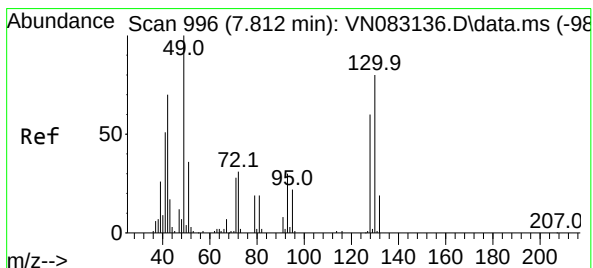
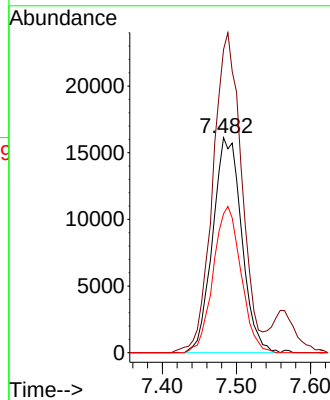
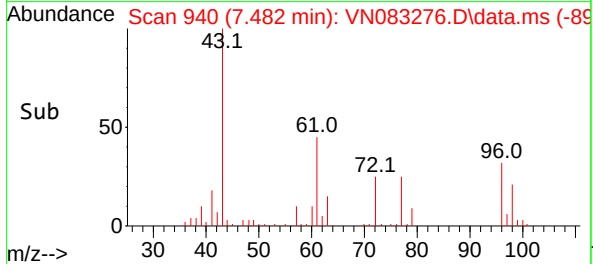
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0813WBS03



Tgt Ion: 96 Resp: 43758
 Ion Ratio Lower Upper
 96 100
 61 147.4 0.0 329.6
 98 65.3 0.0 128.6

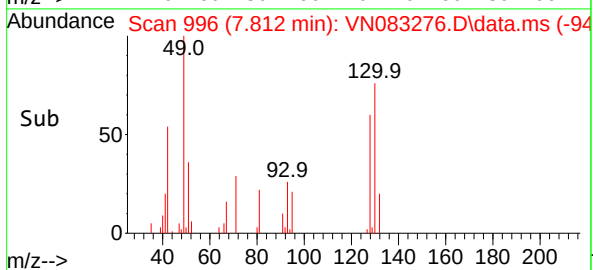
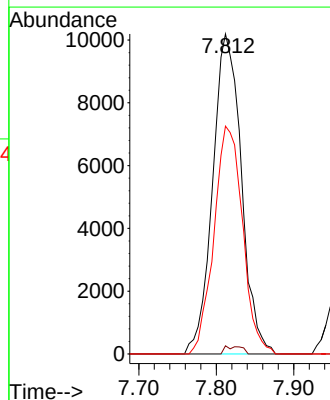
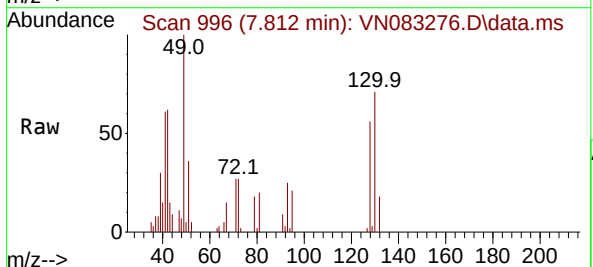
Manual Integrations
 APPROVED

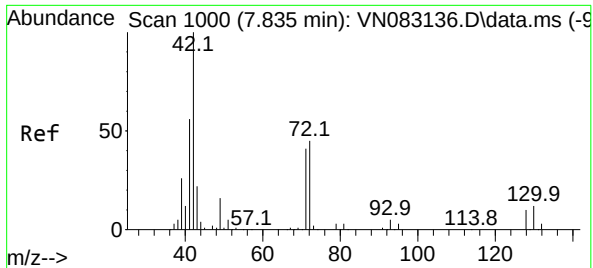
Reviewed By :John Carlone 08/14/2024
 Supervised By :Mahesh Dadoda 08/14/2024



#28
 Bromochloromethane
 Concen: 18.193 ug/l
 RT: 7.812 min Scan# 996
 Delta R.T. -0.000 min
 Lab File: VN083276.D
 Acq: 14 Aug 2024 04:10

Tgt Ion: 49 Resp: 26160
 Ion Ratio Lower Upper
 49 100
 129 1.4 0.0 3.8
 130 71.2 50.5 75.7





#29

Tetrahydrofuran

Concen: 96.167 ug/l

RT: 7.841 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN083276.D

Acq: 14 Aug 2024 04:10

Instrument :

MSVOA_N

ClientSampleId :

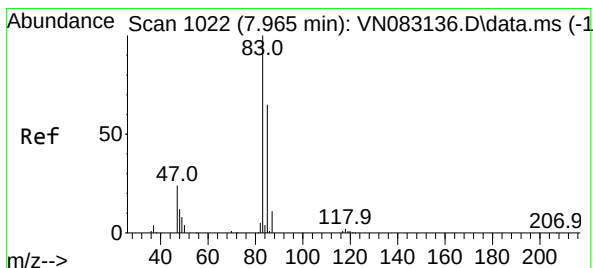
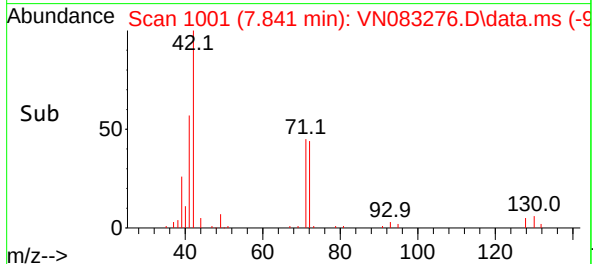
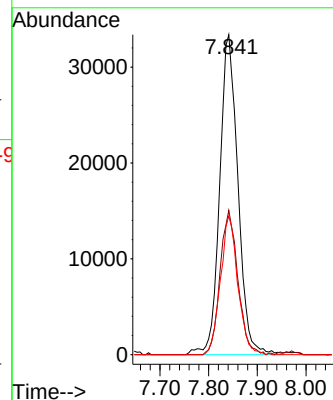
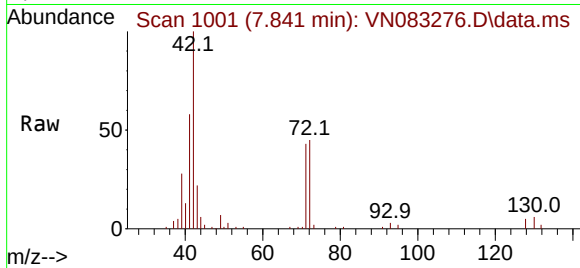
VN0813WBS03

Tgt Ion:	42	Resp:	8715
Ion	Ratio	Lower	Upper
42	100		
72	44.0	30.0	45.0
71	41.3	28.3	42.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#30

Chloroform

Concen: 20.556 ug/l

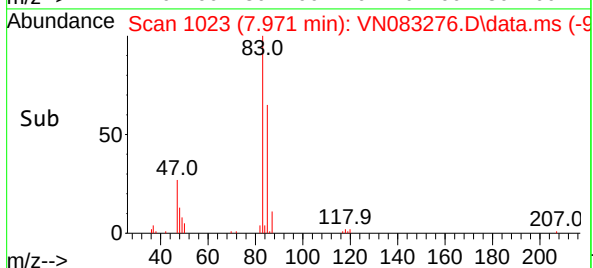
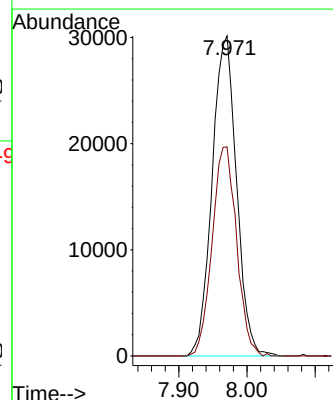
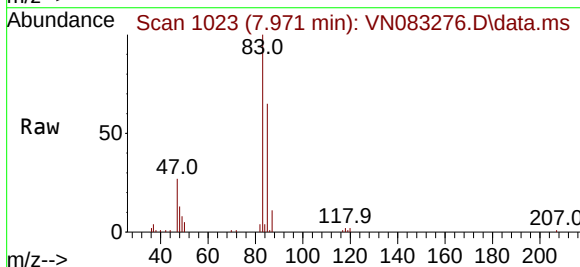
RT: 7.971 min Scan# 1023

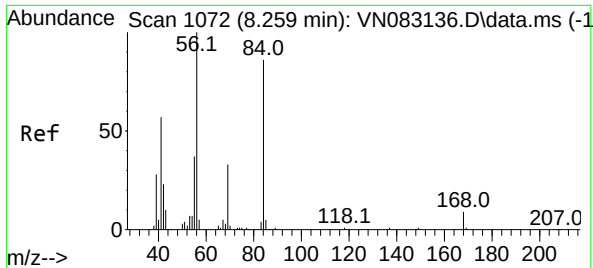
Delta R.T. 0.006 min

Lab File: VN083276.D

Acq: 14 Aug 2024 04:10

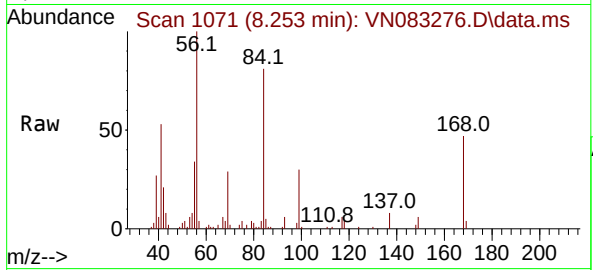
Tgt Ion:	83	Resp:	75140
Ion	Ratio	Lower	Upper
83	100		
85	65.3	50.9	76.3





#31
Cyclohexane
Concen: 18.065 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. -0.006 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

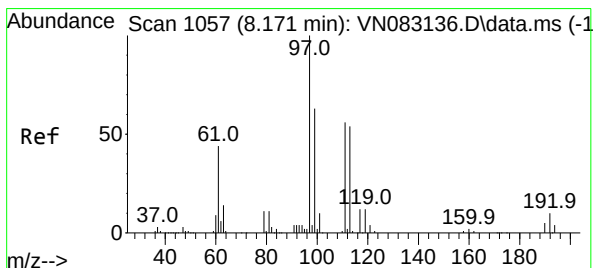
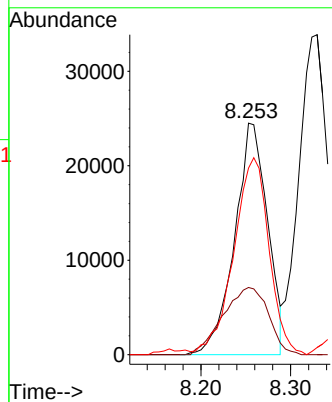
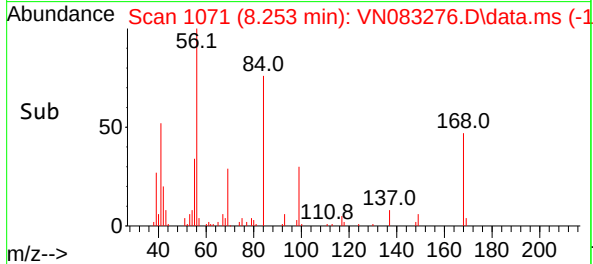
Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03



Tgt Ion: 56 Resp: 62468
Ion Ratio Lower Upper
56 100
69 29.0 24.5 36.7
84 78.9 66.0 99.0

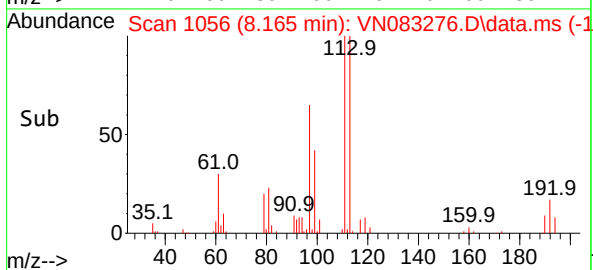
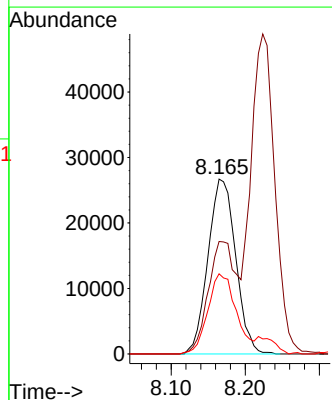
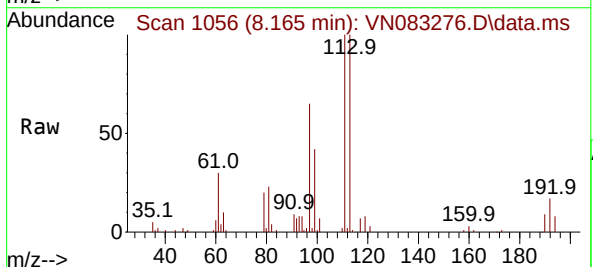
Manual Integrations
APPROVED

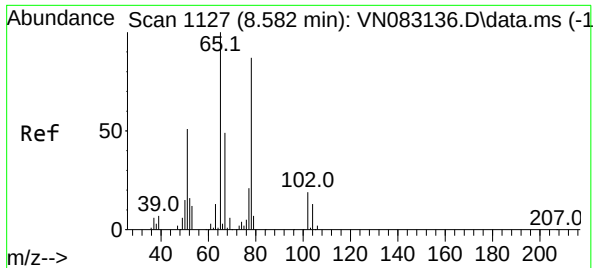
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#32
1,1,1-Trichloroethane
Concen: 20.022 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

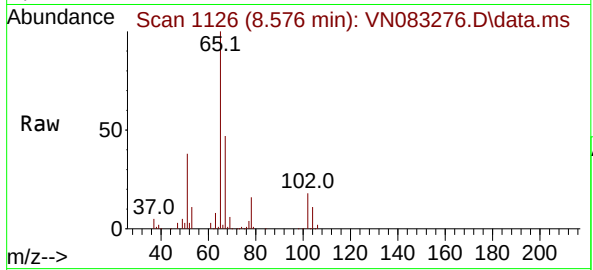
Tgt Ion: 97 Resp: 69276
Ion Ratio Lower Upper
97 100
99 66.2 52.0 78.0
61 47.1 42.1 63.1





#33
1,2-Dichloroethane-d4
Concen: 57.246 ug/l
RT: 8.576 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

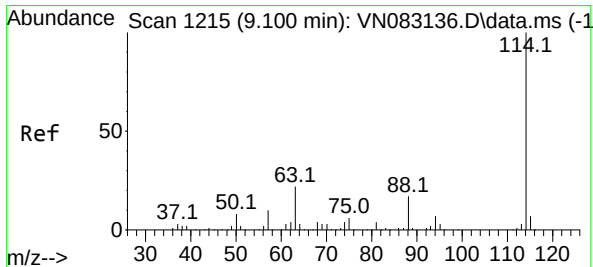
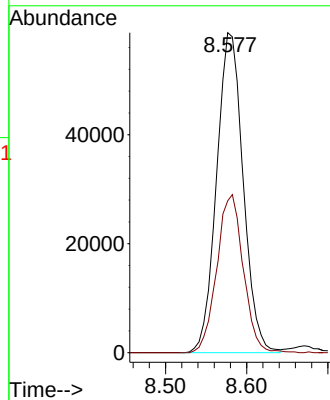
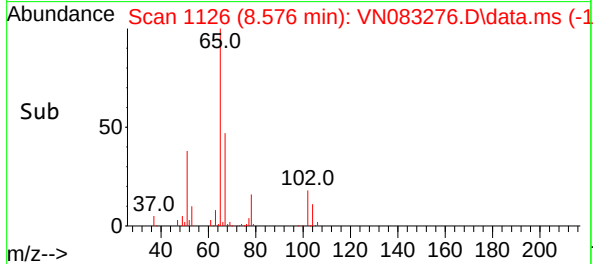
Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03



Tgt Ion: 65 Resp: 133570
Ion Ratio Lower Upper
65 100
67 49.2 0.0 104.4

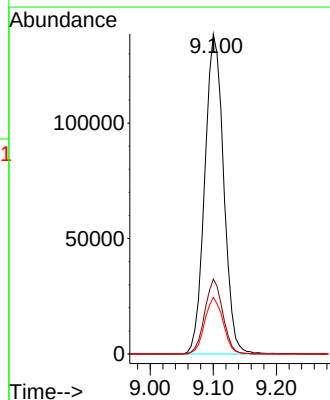
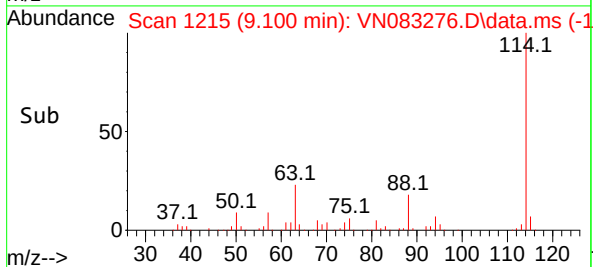
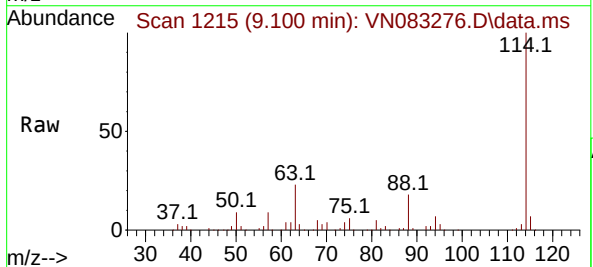
Manual Integrations
APPROVED

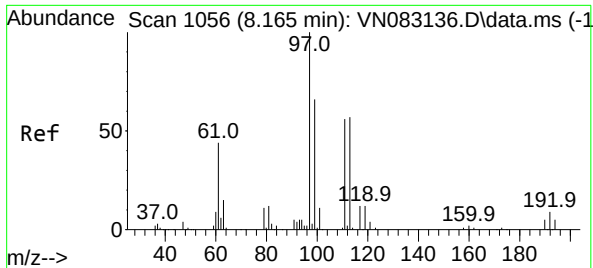
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion:114 Resp: 287598
Ion Ratio Lower Upper
114 100
63 23.4 0.0 44.6
88 17.7 0.0 31.4





#35

Dibromofluoromethane

Concen: 54.105 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN083276.D

Acq: 14 Aug 2024 04:10

Instrument :

MSVOA_N

ClientSampleId :

VN0813WBS03

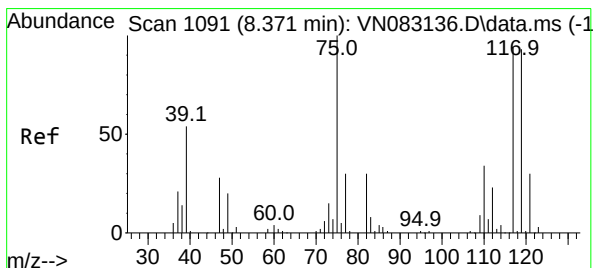
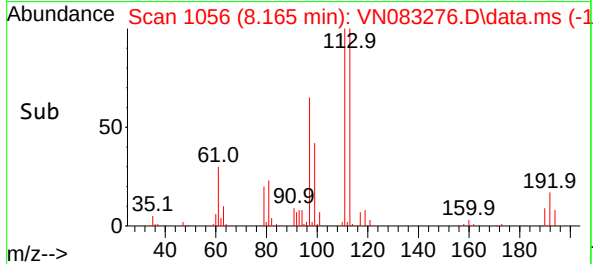
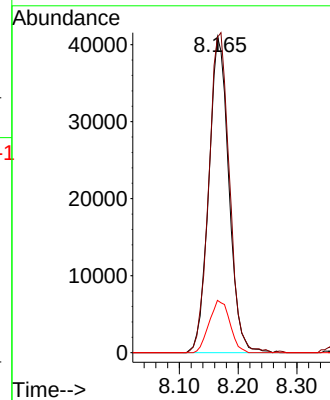
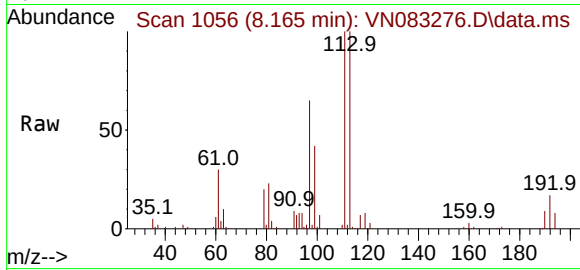
Tgt Ion:	113	Resp:	97120
Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.4	123.6
192	17.1	14.9	22.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#36

1,1-Dichloropropene

Concen: 18.756 ug/l

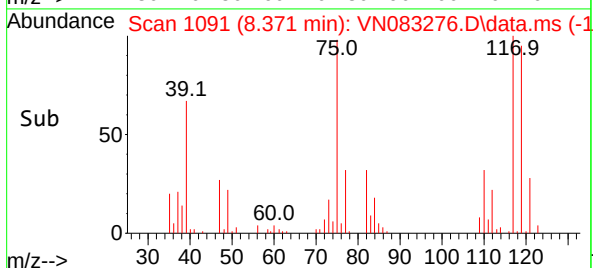
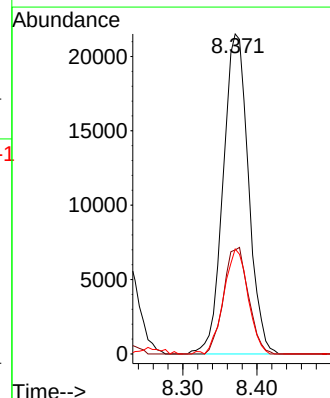
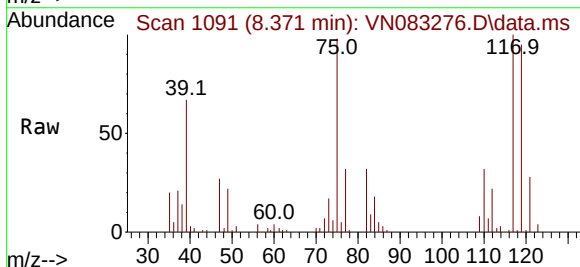
RT: 8.371 min Scan# 1091

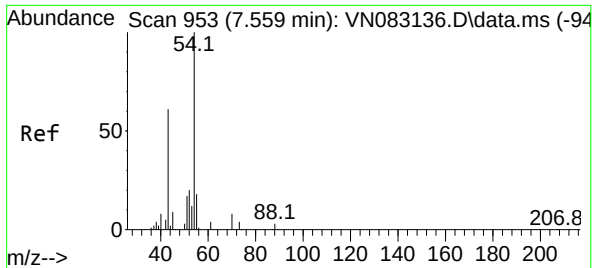
Delta R.T. -0.000 min

Lab File: VN083276.D

Acq: 14 Aug 2024 04:10

Tgt Ion:	75	Resp:	50932
Ion	Ratio	Lower	Upper
75	100		
110	32.7	16.3	48.9
77	31.6	24.6	37.0





#37

Ethyl Acetate

Concen: 17.551 ug/l

RT: 7.559 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN083276.D

Acq: 14 Aug 2024 04:10

Instrument :

MSVOA_N

ClientSampleId :

VN0813WBS03

Tgt Ion: 43 Resp: 53362

Ion Ratio Lower Upper

43 100

61 13.7 9.3 13.9

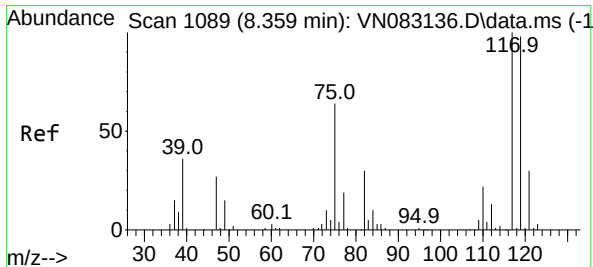
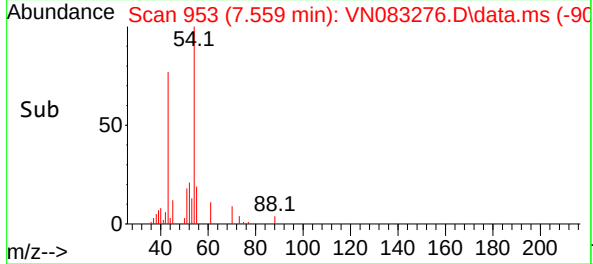
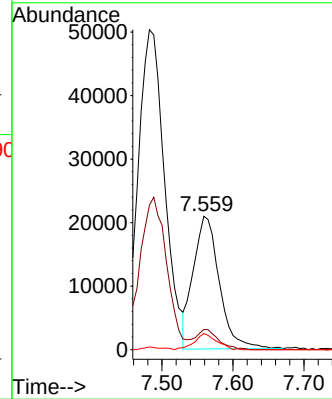
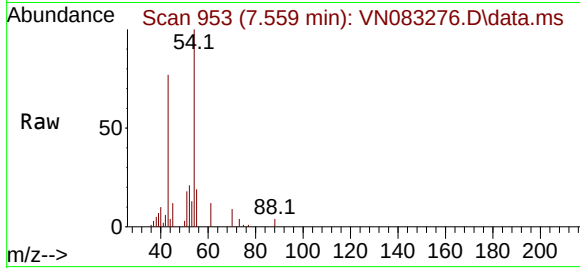
70 10.3 7.0 10.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#38

Carbon Tetrachloride

Concen: 19.799 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. 0.006 min

Lab File: VN083276.D

Acq: 14 Aug 2024 04:10

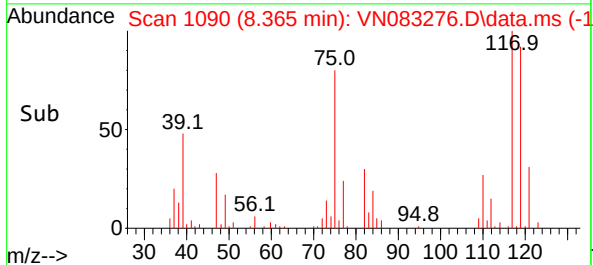
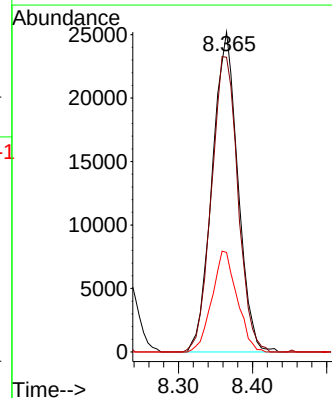
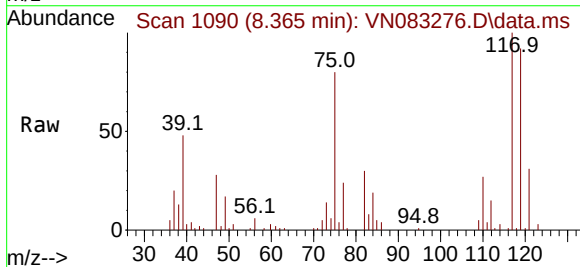
Tgt Ion:117 Resp: 60557

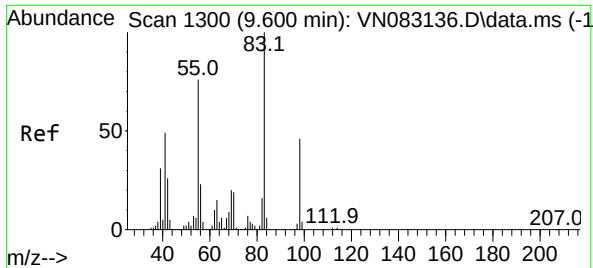
Ion Ratio Lower Upper

117 100

119 92.1 74.9 112.3

121 31.1 24.3 36.5





#39

Methylcyclohexane

Concen: 17.483 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN083276.D

Acq: 14 Aug 2024 04:10

Instrument :

MSVOA_N

ClientSampleId :

VN0813WBS03

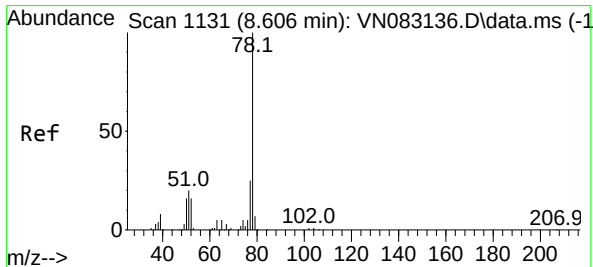
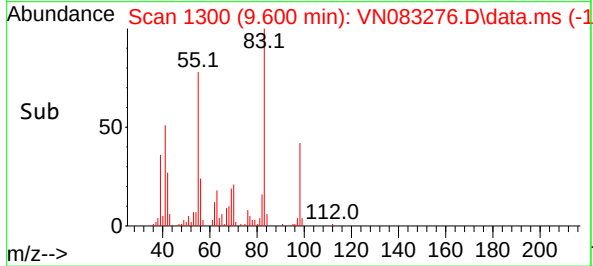
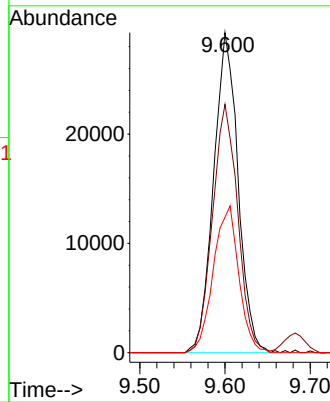
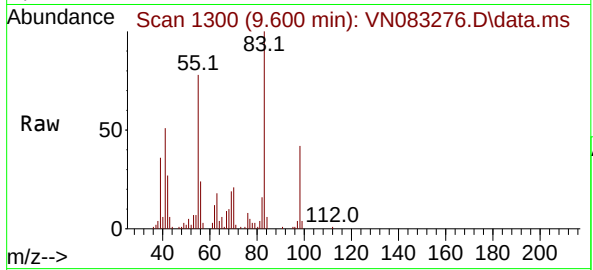
Tgt Ion	83	Resp	5831
Ion	Ratio	Lower	Upper
83	100		
55	77.6	66.4	99.6
98	42.3	40.7	61.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#40

Benzene

Concen: 19.557 ug/l

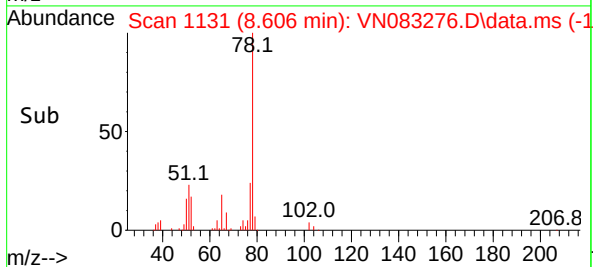
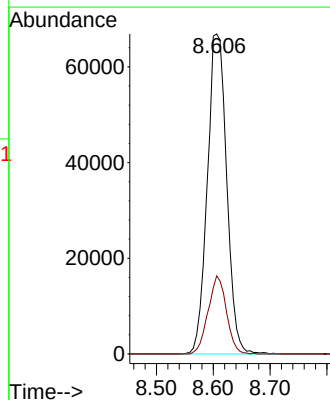
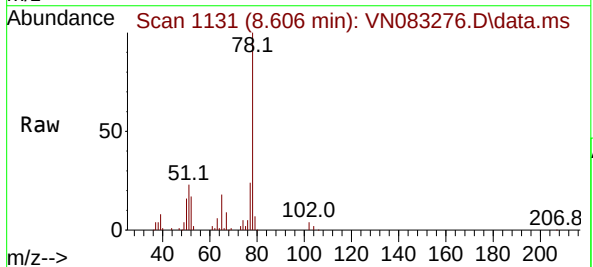
RT: 8.606 min Scan# 1131

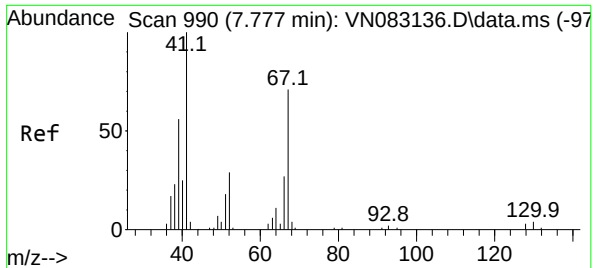
Delta R.T. -0.000 min

Lab File: VN083276.D

Acq: 14 Aug 2024 04:10

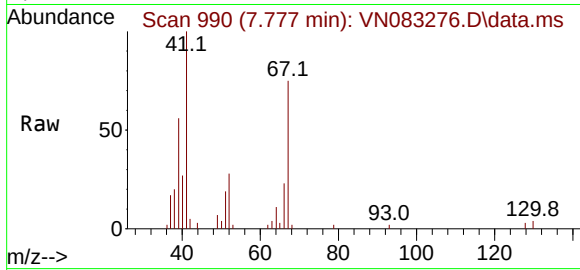
Tgt Ion	78	Resp	158212
Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.0	28.4





#41
Methacrylonitrile
Concen: 17.425 ug/l
RT: 7.777 min Scan# 990
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

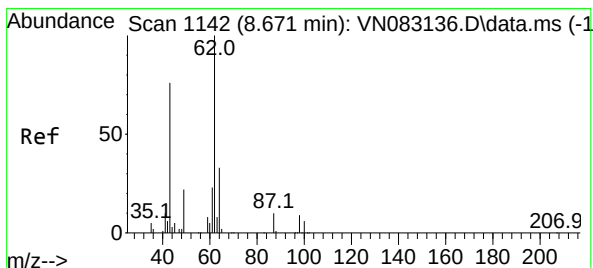
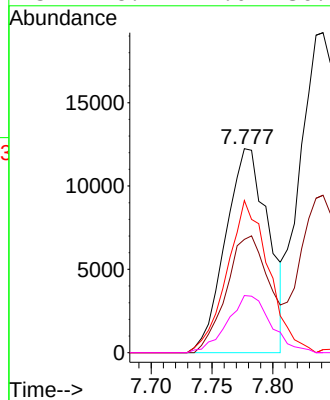
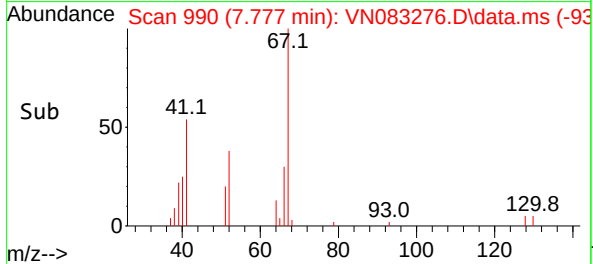
Instrument :
MSVOA_N
Client Sample Id :
VN0813WBS03



Tgt Ion: 41 Resp: 3012
Ion Ratio Lower Upper
41 100
39 56.7 45.5 68.3
67 72.3 50.5 75.7
52 28.2 24.0 36.0

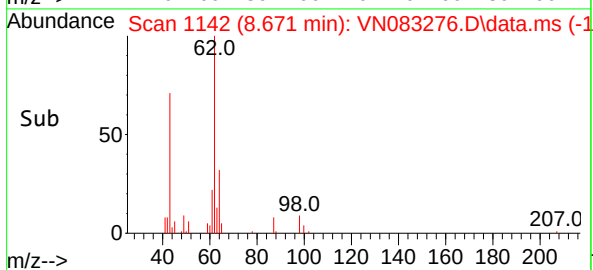
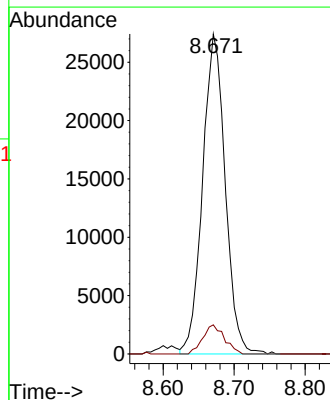
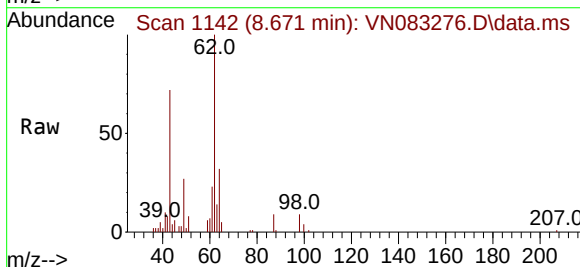
Manual Integrations
APPROVED

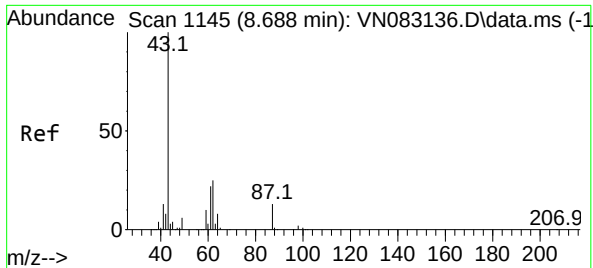
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#42
1,2-Dichloroethane
Concen: 20.607 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 62 Resp: 60727
Ion Ratio Lower Upper
62 100
98 8.7 0.0 15.8





#43

Isopropyl Acetate

Concen: 18.450 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN083276.D

Acq: 14 Aug 2024 04:10

Instrument :

MSVOA_N

ClientSampleId :

VN0813WBS03

Tgt Ion: 43 Resp: 10478

Ion Ratio Lower Upper

43 100

61 23.4 17.8 26.6

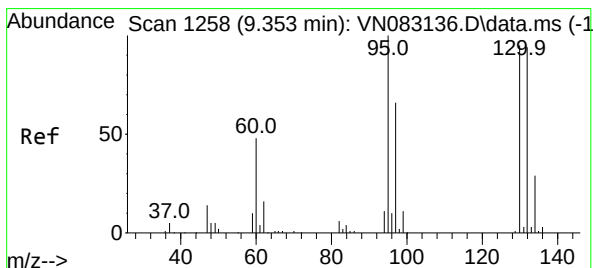
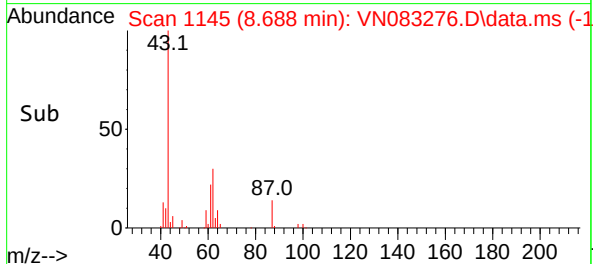
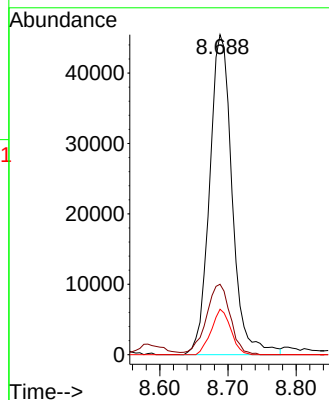
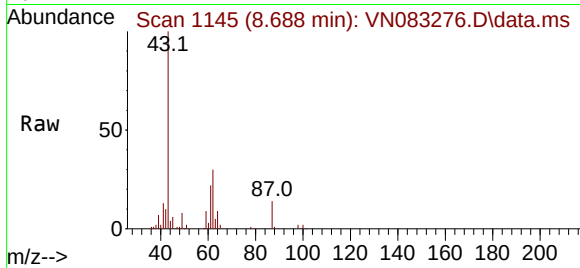
87 12.2 8.2 12.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#44

Trichloroethene

Concen: 19.495 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. -0.000 min

Lab File: VN083276.D

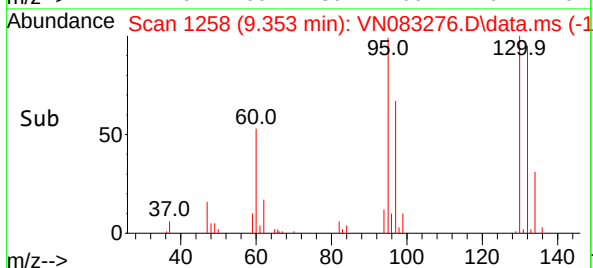
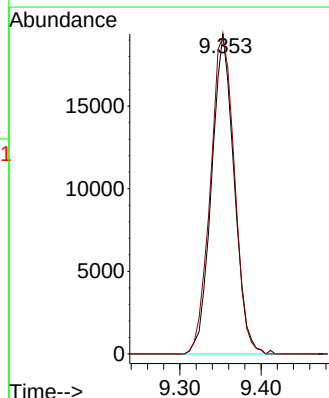
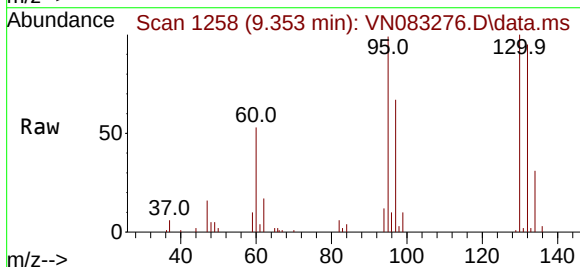
Acq: 14 Aug 2024 04:10

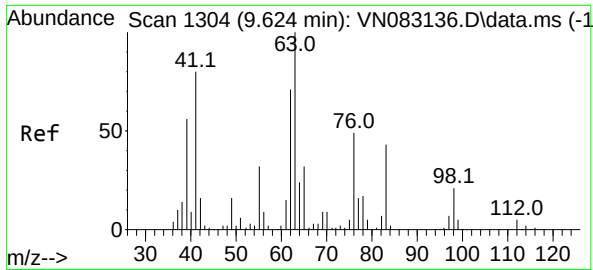
Tgt Ion:130 Resp: 37538

Ion Ratio Lower Upper

130 100

95 99.0 0.0 197.8





#45

1,2-Dichloropropane

Concen: 20.464 ug/l

RT: 9.623 min Scan# 1304

Delta R.T. -0.000 min

Lab File: VN083276.D

Acq: 14 Aug 2024 04:10

Instrument :

MSVOA_N

ClientSampleId :

VN0813WBS03

Tgt Ion: 63 Resp: 3929

Ion Ratio Lower Upper

63 100

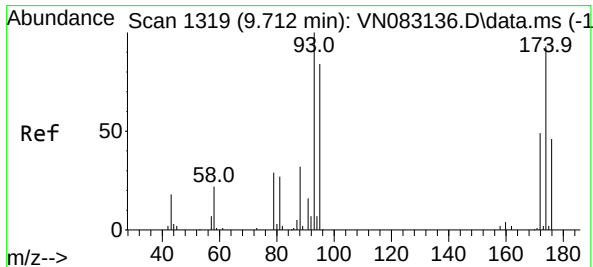
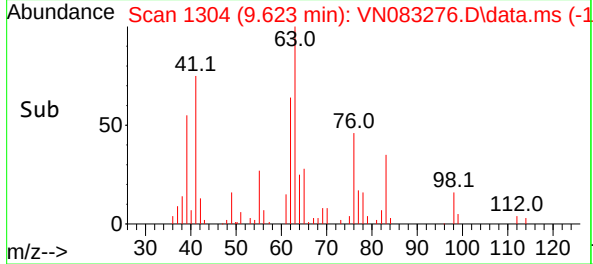
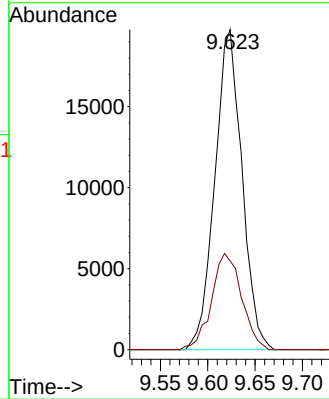
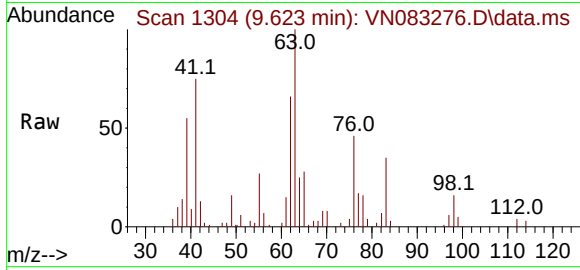
65 27.8 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#46

Dibromomethane

Concen: 19.955 ug/l

RT: 9.712 min Scan# 1319

Delta R.T. -0.000 min

Lab File: VN083276.D

Acq: 14 Aug 2024 04:10

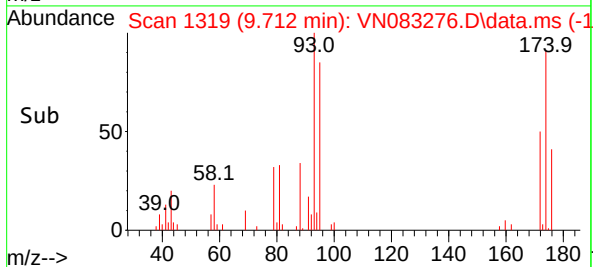
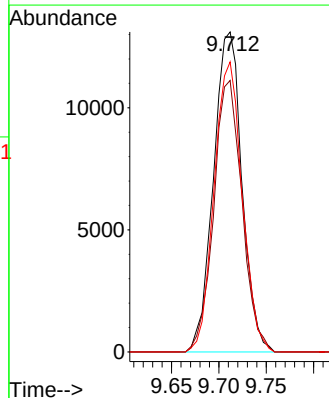
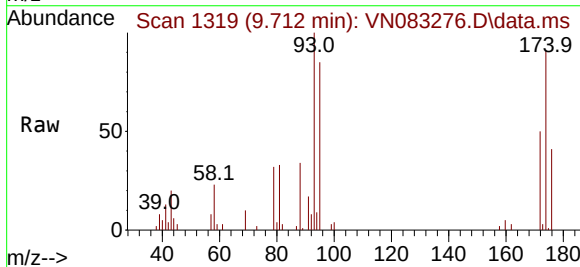
Tgt Ion: 93 Resp: 27427

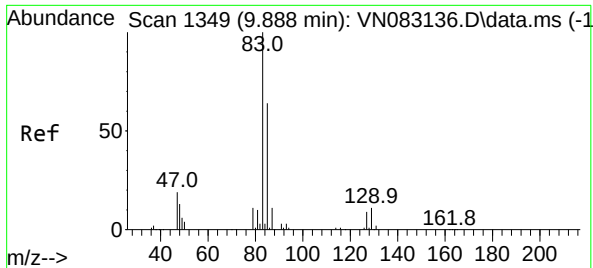
Ion Ratio Lower Upper

93 100

95 84.3 65.8 98.6

174 89.6 71.7 107.5





#47

Bromodichloromethane

Concen: 19.566 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. -0.000 min

Lab File: VN083276.D

Acq: 14 Aug 2024 04:10

Instrument :

MSVOA_N

ClientSampleId :

VN0813WBS03

Tgt Ion: 83 Resp: 6038

Ion Ratio Lower Upper

83 100

85 66.2 51.1 76.7

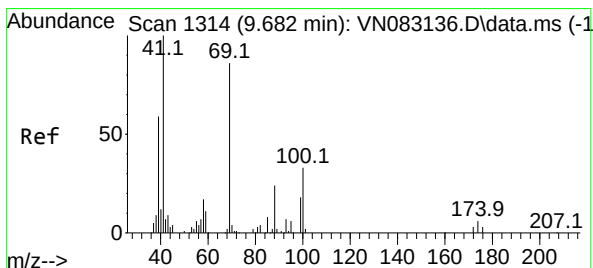
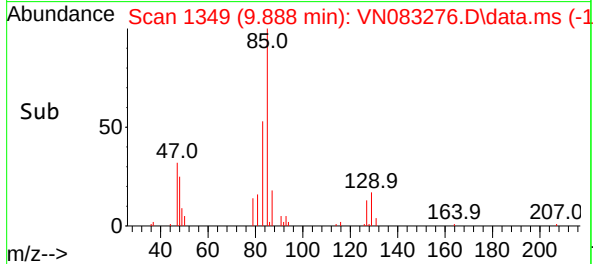
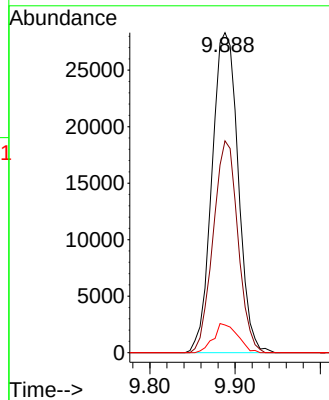
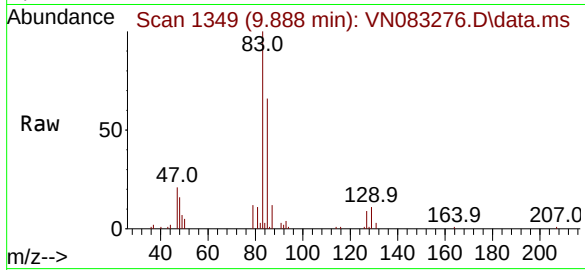
127 8.7 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#48

Methyl methacrylate

Concen: 17.478 ug/l

RT: 9.682 min Scan# 1314

Delta R.T. -0.000 min

Lab File: VN083276.D

Acq: 14 Aug 2024 04:10

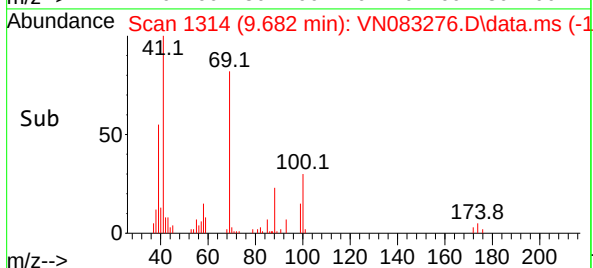
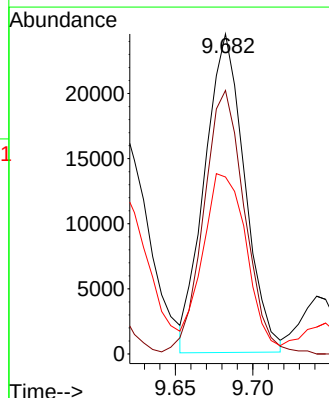
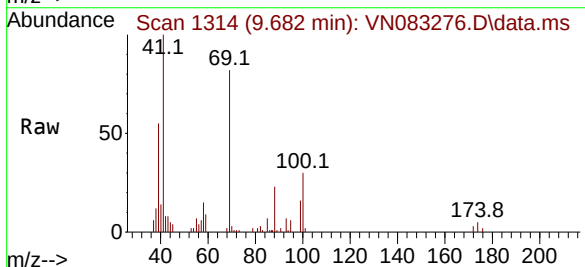
Tgt Ion: 41 Resp: 43935

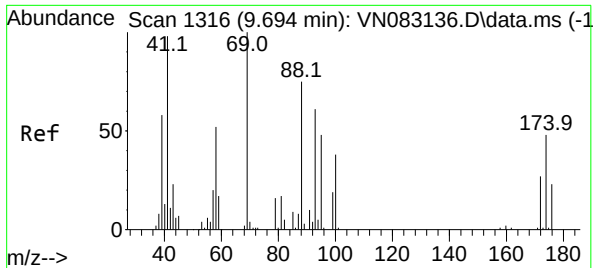
Ion Ratio Lower Upper

41 100

69 85.0 56.3 84.5

39 62.6 50.3 75.5





#49

1,4-Dioxane

Concen: 369.020 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VN083276.D

Acq: 14 Aug 2024 04:10

Instrument :

MSVOA_N

ClientSampleId :

VN0813WBS03

Tgt Ion: 88 Resp: 16735

Ion Ratio Lower Upper

88 100

43 31.4 27.8 41.8

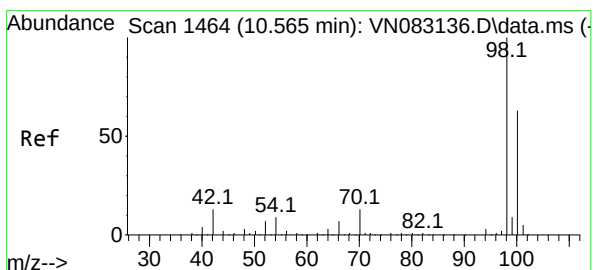
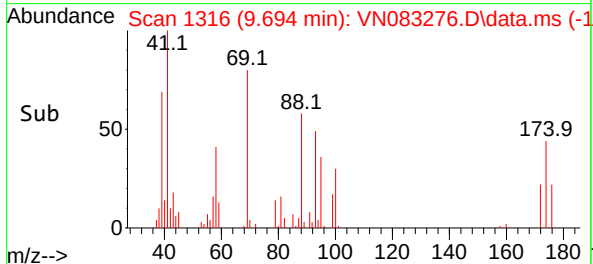
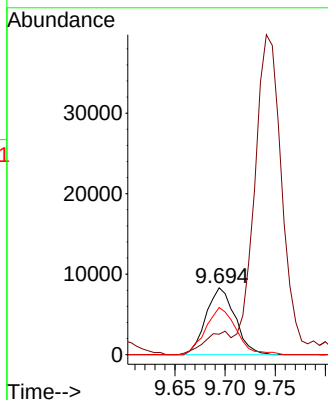
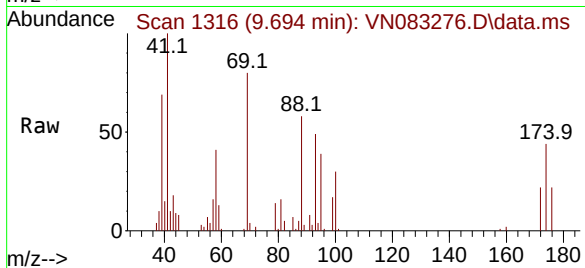
58 74.0 59.4 89.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#50

Toluene-d8

Concen: 54.187 ug/l

RT: 10.570 min Scan# 1465

Delta R.T. 0.006 min

Lab File: VN083276.D

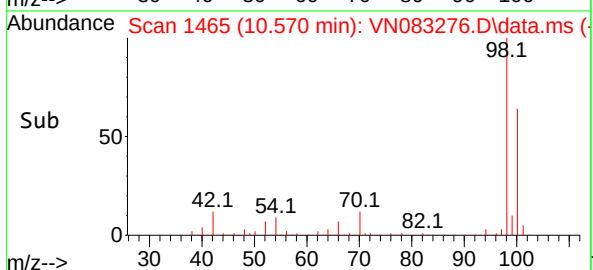
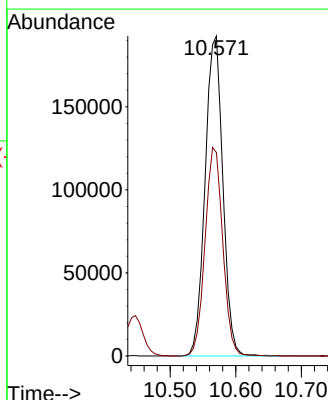
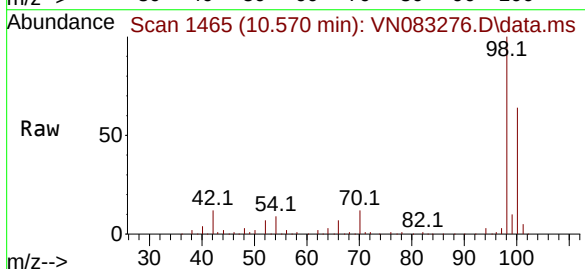
Acq: 14 Aug 2024 04:10

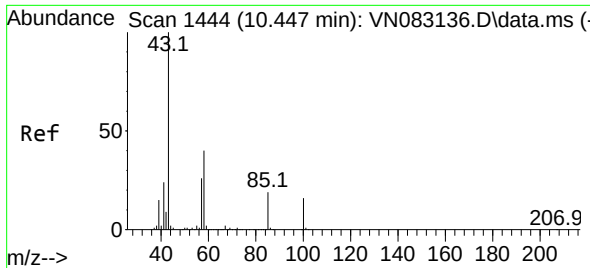
Tgt Ion: 98 Resp: 362852

Ion Ratio Lower Upper

98 100

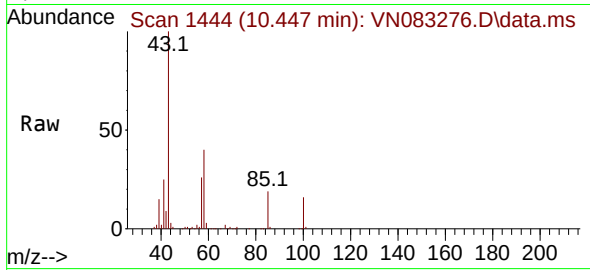
100 65.1 51.5 77.3





#51
4-Methyl-2-Pentanone
Concen: 97.180 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

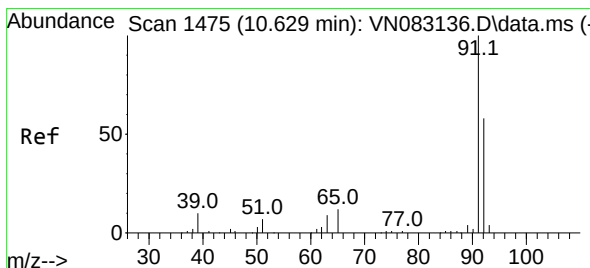
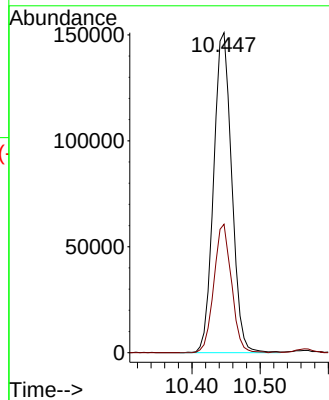
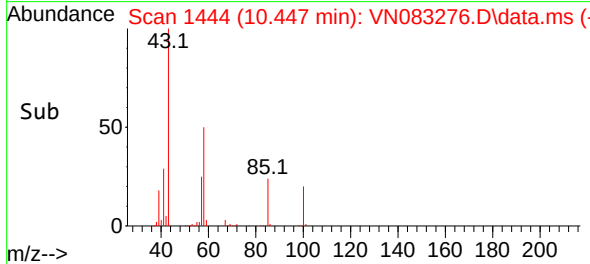
Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03



Tgt Ion: 43 Resp: 27941
Ion Ratio Lower Upper
43 100
58 39.0 28.2 42.4

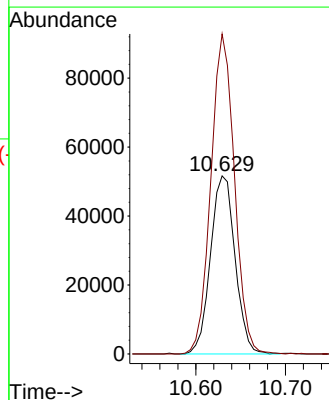
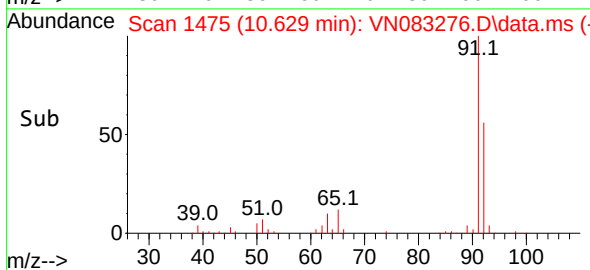
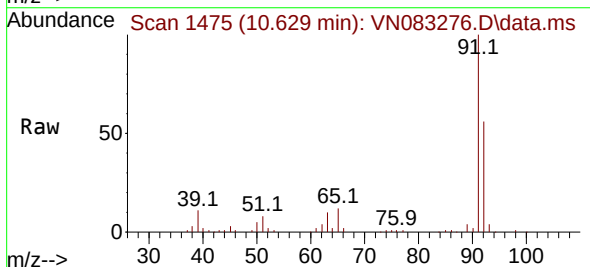
Manual Integrations
APPROVED

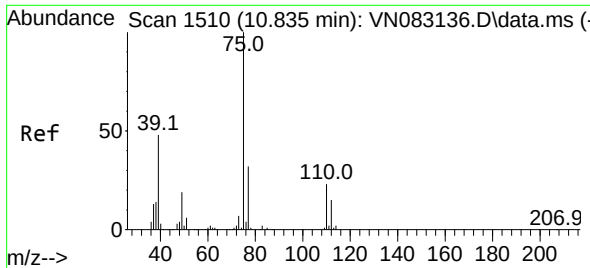
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#52
Toluene
Concen: 19.209 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 92 Resp: 98181
Ion Ratio Lower Upper
92 100
91 172.8 139.4 209.0





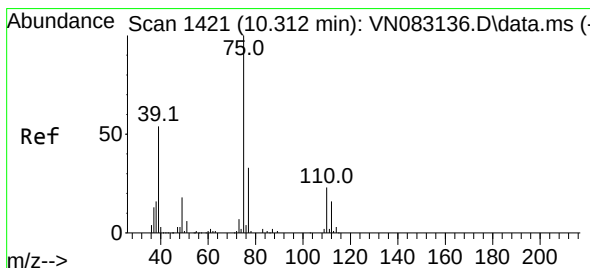
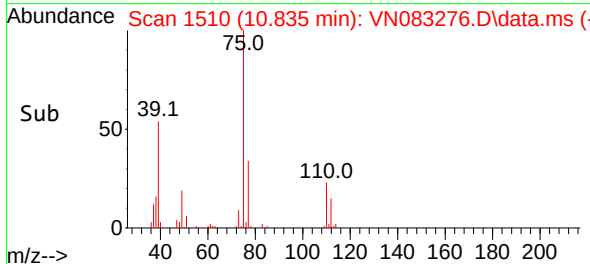
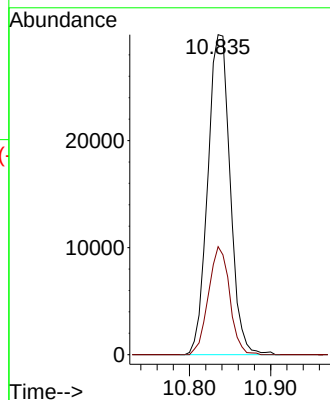
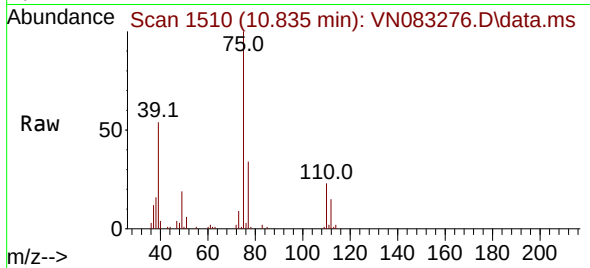
#53
t-1,3-Dichloropropene
Concen: 18.044 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Tgt Ion: 75 Resp: 5720
Ion Ratio Lower Upper
75 100
77 33.8 25.7 38.5

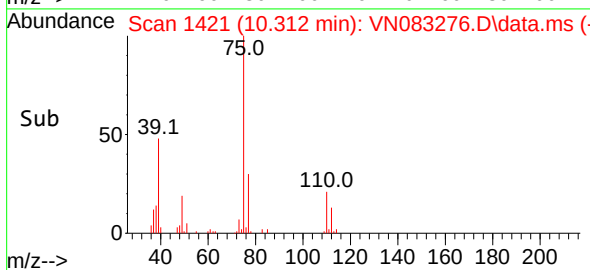
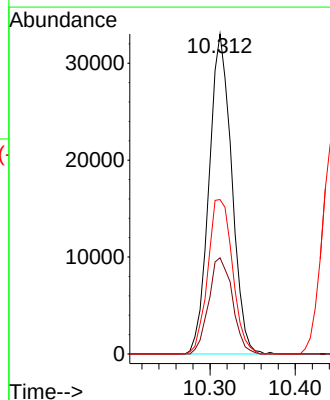
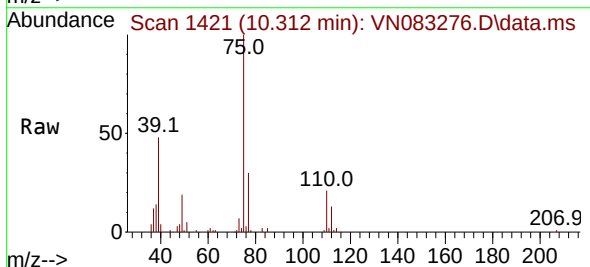
Manual Integrations
APPROVED

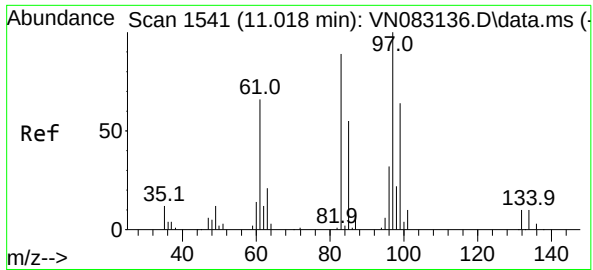
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#54
cis-1,3-Dichloropropene
Concen: 18.063 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 75 Resp: 60905
Ion Ratio Lower Upper
75 100
77 30.1 24.3 36.5
39 48.2 50.5 75.7#





#55

1,1,2-Trichloroethane

Concen: 20.455 ug/l

RT: 11.018 min Scan# 1541

Delta R.T. -0.000 min

Lab File: VN083276.D

Acq: 14 Aug 2024 04:10

Instrument :

MSVOA_N

ClientSampleId :

VN0813WBS03

Tgt Ion: 97 Resp: 37469

Ion Ratio Lower Upper

97 100

83 90.2 71.4 107.0

85 58.6 45.8 68.6

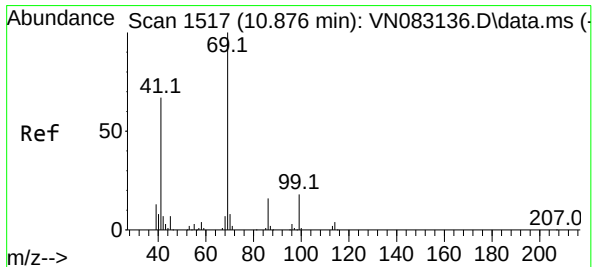
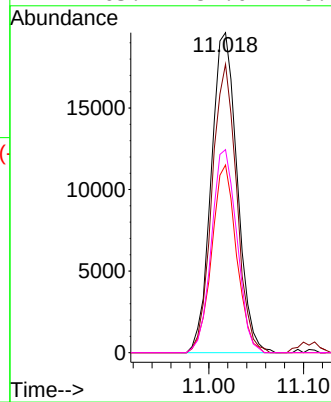
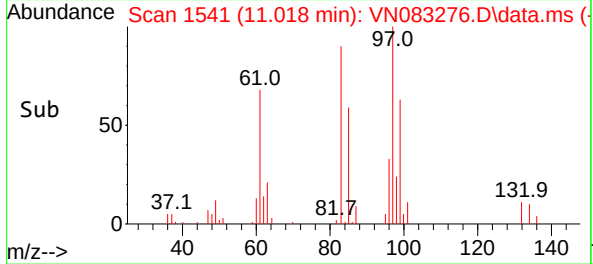
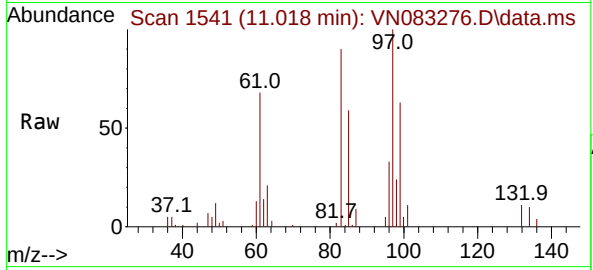
99 63.4 52.0 78.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#56

Ethyl methacrylate

Concen: 19.007 ug/l

RT: 10.876 min Scan# 1517

Delta R.T. -0.000 min

Lab File: VN083276.D

Acq: 14 Aug 2024 04:10

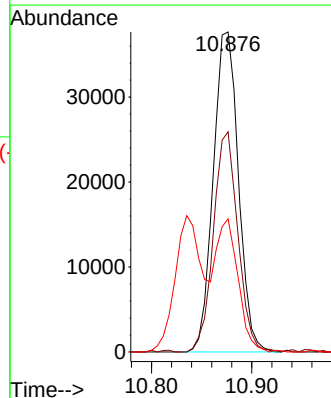
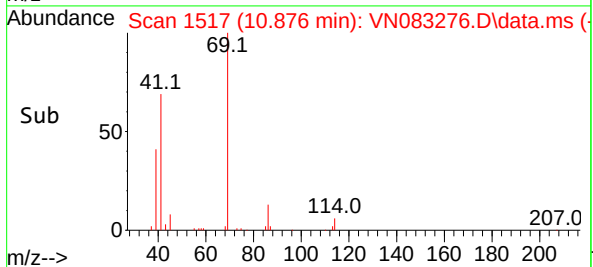
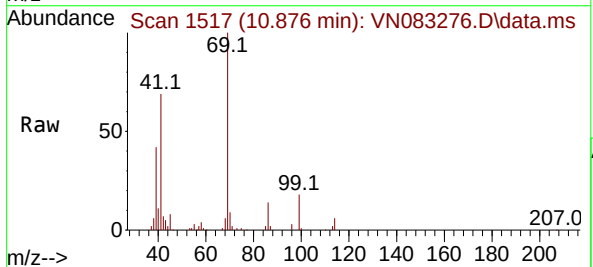
Tgt Ion: 69 Resp: 65633

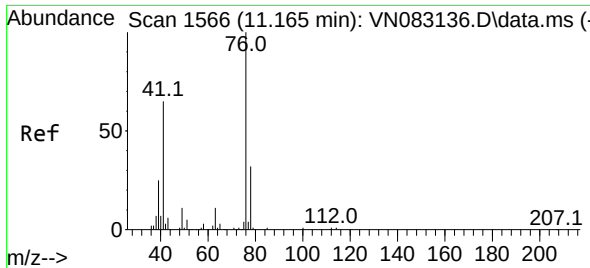
Ion Ratio Lower Upper

69 100

41 67.1 63.4 95.2

39 36.2 37.4 56.0#





#57

1,3-Dichloropropane

Concen: 19.687 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. -0.000 min

Lab File: VN083276.D

Acq: 14 Aug 2024 04:10

Instrument :

MSVOA_N

ClientSampleId :

VN0813WBS03

Tgt Ion: 76 Resp: 64270

Ion Ratio Lower Upper

76 100

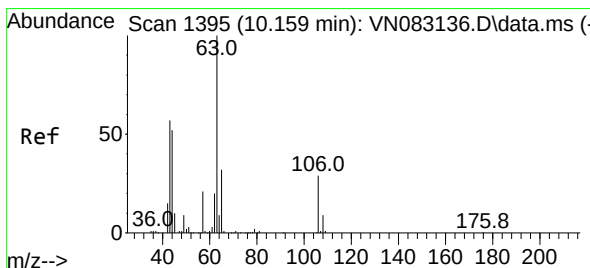
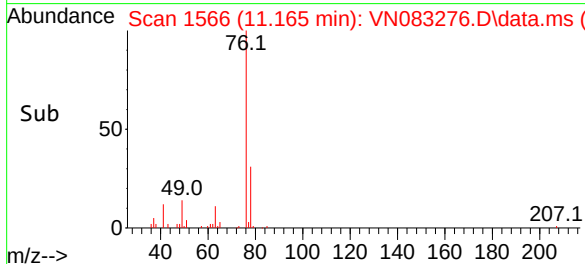
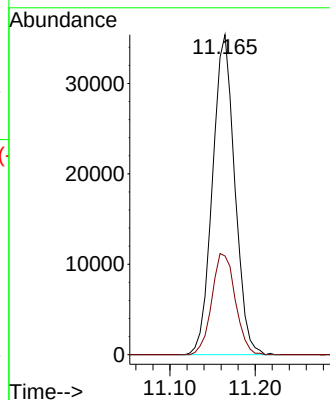
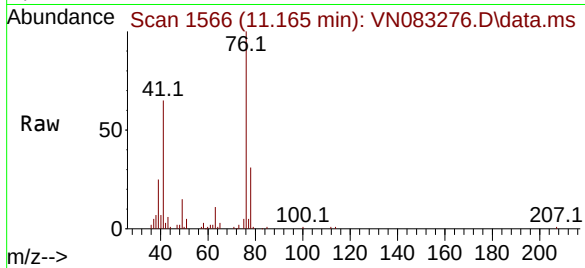
78 33.3 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#58

2-Chloroethyl Vinyl ether

Concen: 94.650 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN083276.D

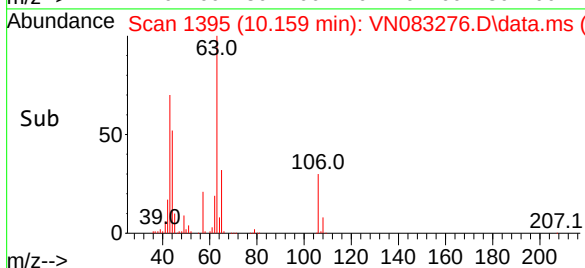
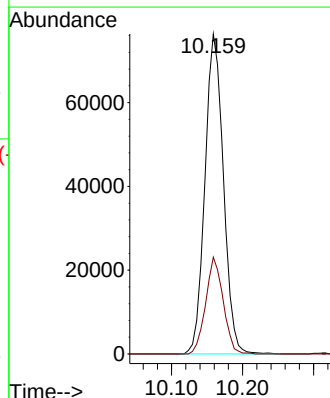
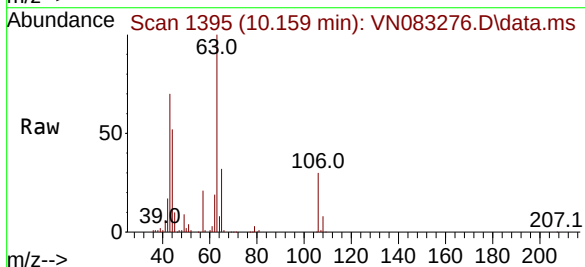
Acq: 14 Aug 2024 04:10

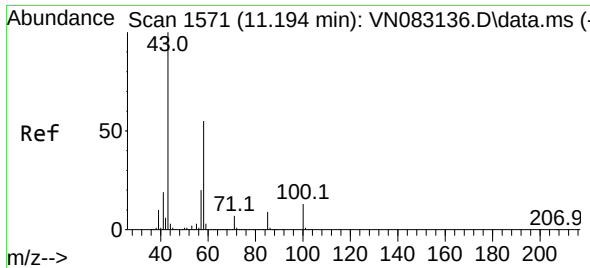
Tgt Ion: 63 Resp: 138157

Ion Ratio Lower Upper

63 100

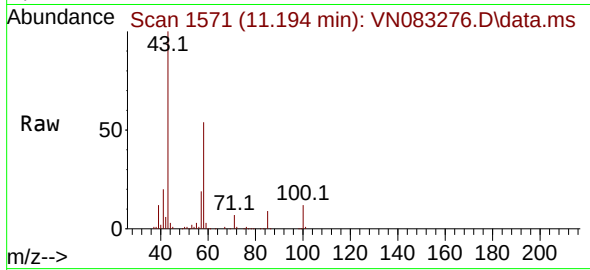
106 28.6 21.4 32.0





#59
2-Hexanone
Concen: 93.423 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

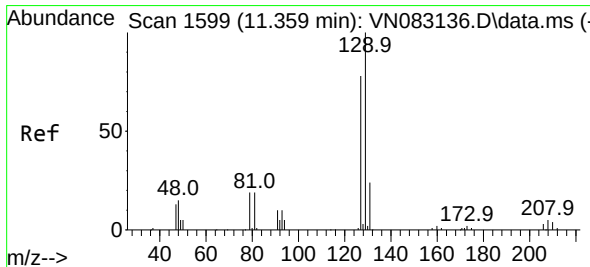
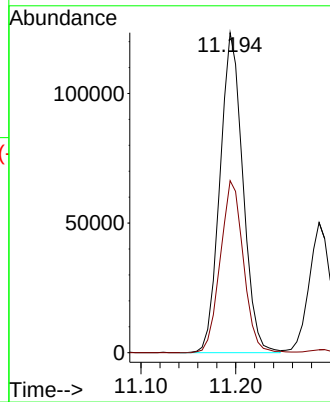
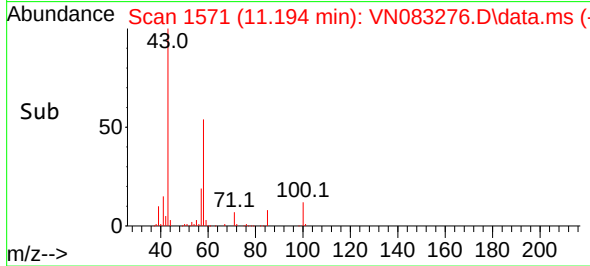
Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03



Tgt Ion: 43 Resp: 207800
Ion Ratio Lower Upper
43 100
58 54.1 24.6 73.8

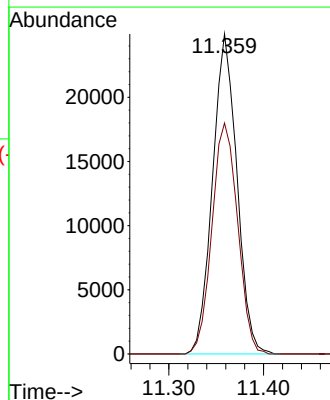
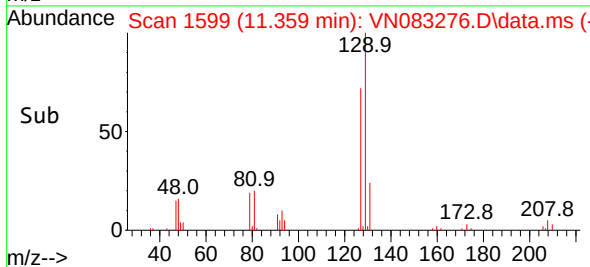
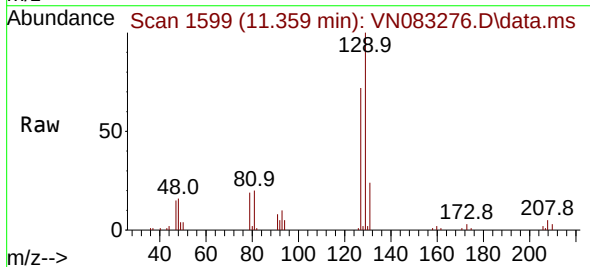
Manual Integrations
APPROVED

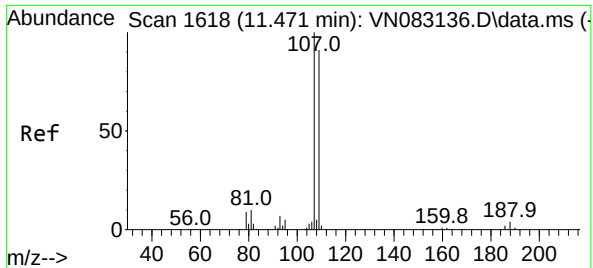
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#60
Dibromochloromethane
Concen: 20.105 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion:129 Resp: 44526
Ion Ratio Lower Upper
129 100
127 76.0 39.2 117.6





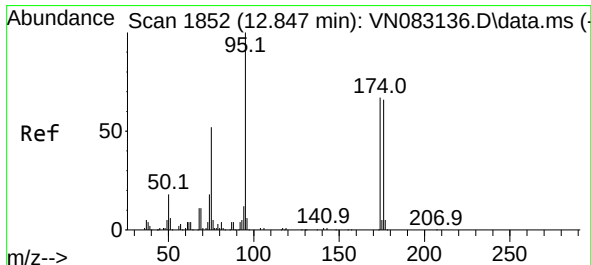
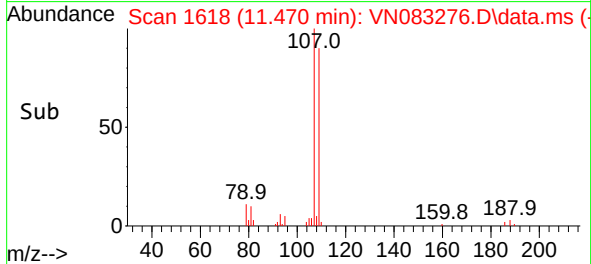
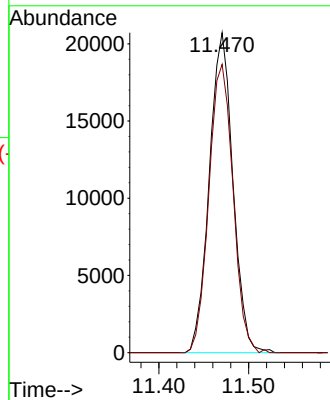
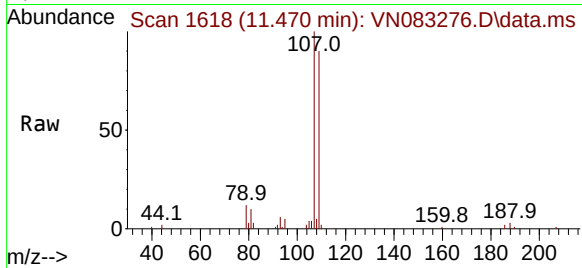
#61
1,2-Dibromoethane
Concen: 19.699 ug/l
RT: 11.470 min Scan# 1618
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Tgt Ion:107 Resp: 3790
Ion Ratio Lower Upper
107 100
109 92.0 73.7 110.5

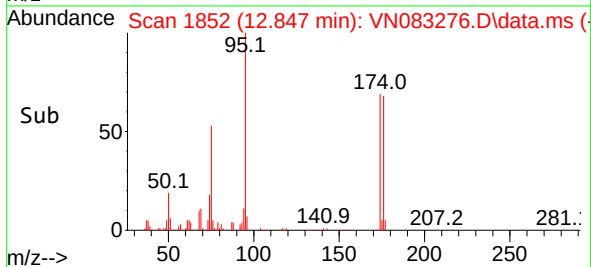
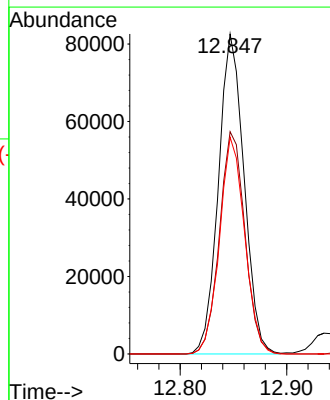
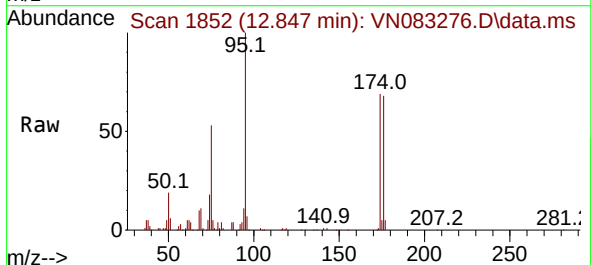
Manual Integrations
APPROVED

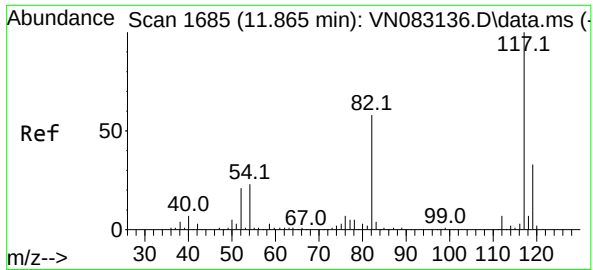
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#62
4-Bromofluorobenzene
Concen: 52.660 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

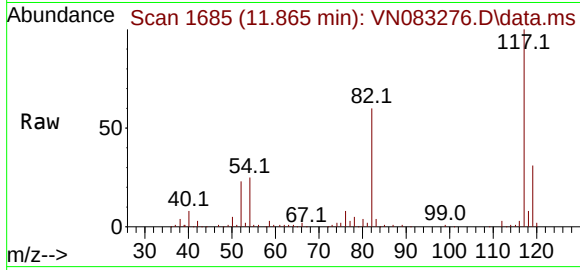
Tgt Ion: 95 Resp: 137472
Ion Ratio Lower Upper
95 100
174 69.2 0.0 159.2
176 66.7 0.0 147.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

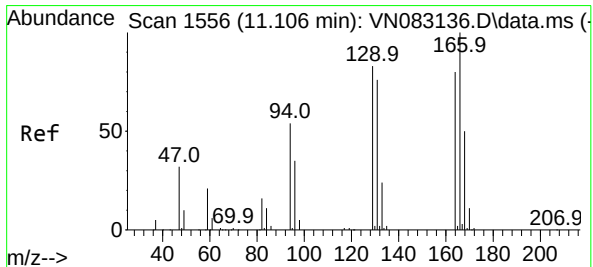
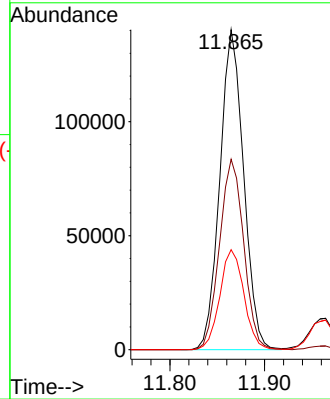
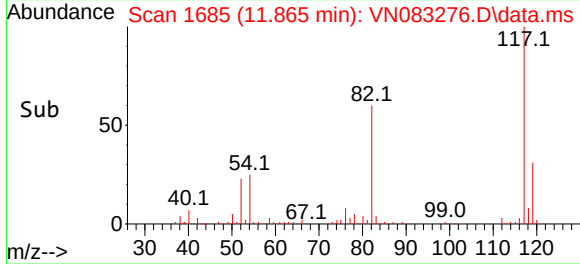
Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03



Tgt Ion:117 Resp: 24493
Ion Ratio Lower Upper
117 100
82 59.5 47.5 71.3
119 31.3 25.6 38.4

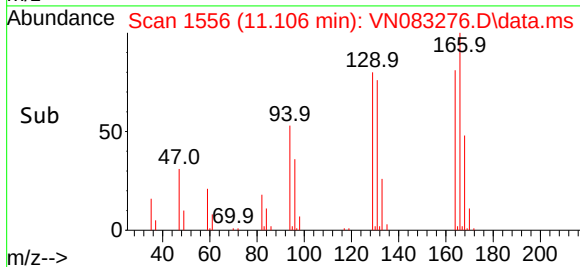
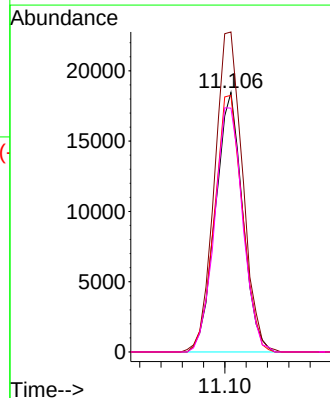
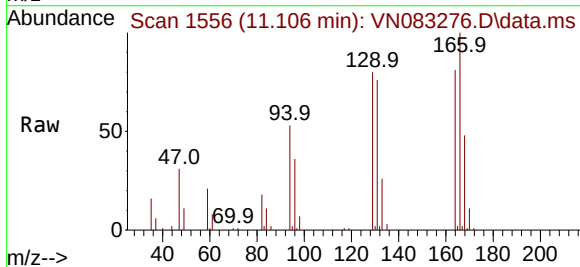
Manual Integrations
APPROVED

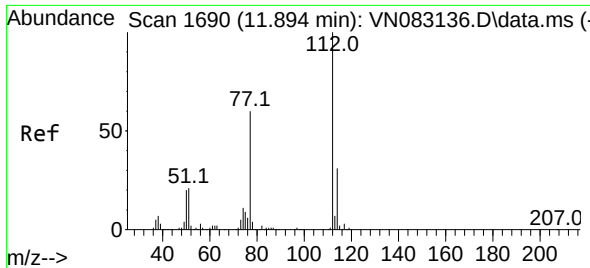
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#64
Tetrachloroethene
Concen: 20.073 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

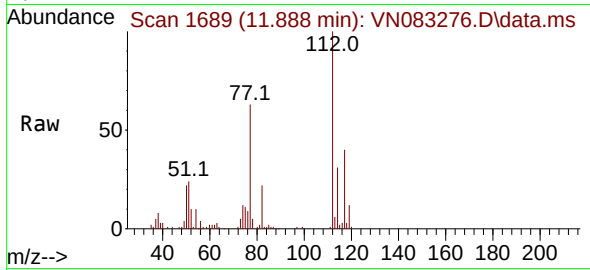
Tgt Ion:164 Resp: 32561
Ion Ratio Lower Upper
164 100
166 123.3 101.4 152.0
129 98.9 75.7 113.5
131 94.0 73.8 110.6





#65
Chlorobenzene
Concen: 19.611 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.006 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

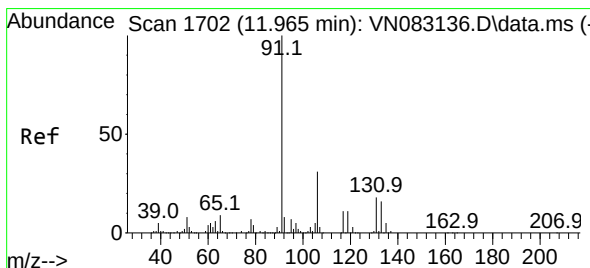
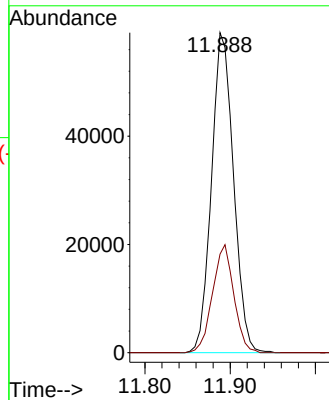
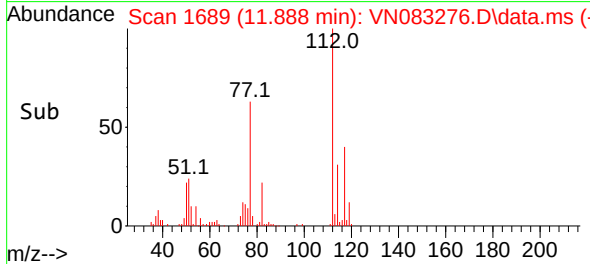
Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03



Tgt Ion:112 Resp: 106140
Ion Ratio Lower Upper
112 100
114 30.8 26.2 39.2

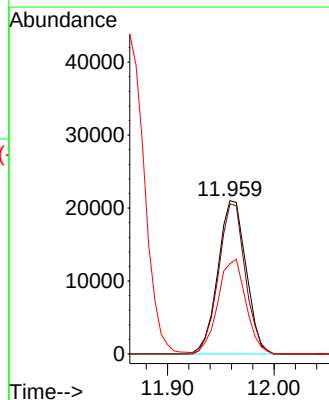
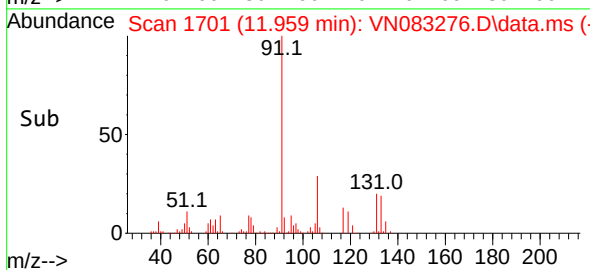
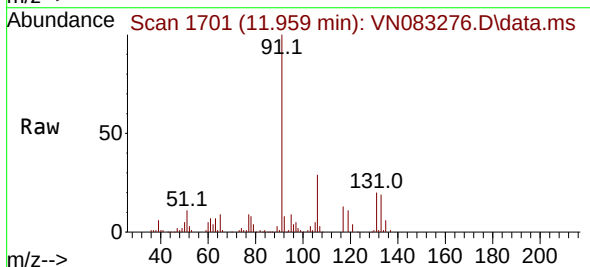
Manual Integrations
APPROVED

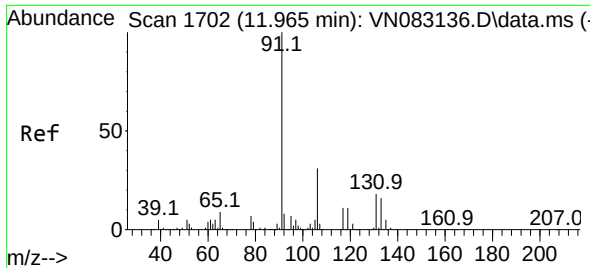
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#66
1,1,1,2-Tetrachloroethane
Concen: 20.183 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

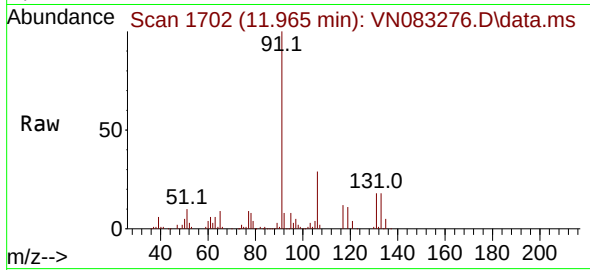
Tgt Ion:131 Resp: 38528
Ion Ratio Lower Upper
131 100
133 93.4 47.3 142.0
119 61.4 32.5 97.4





#67
Ethyl Benzene
Concen: 19.563 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

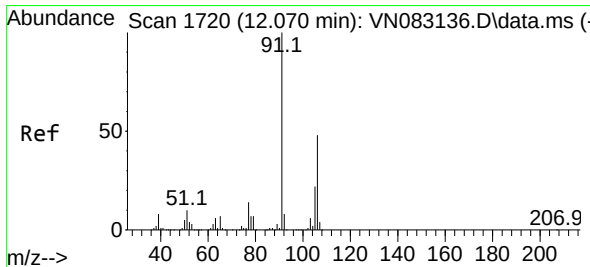
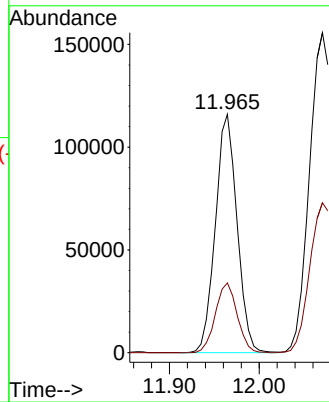
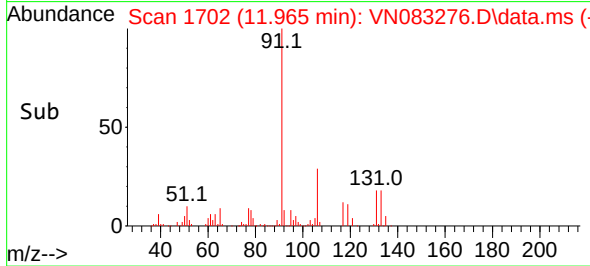
Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03



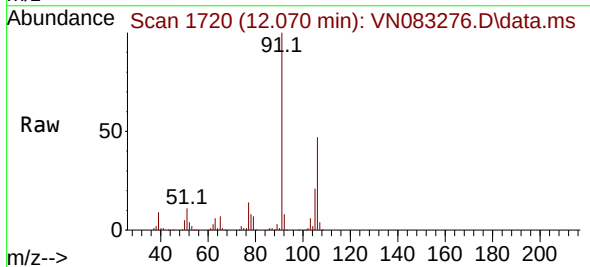
Tgt Ion: 91 Resp: 194254
Ion Ratio Lower Upper
91 100
106 29.3 24.0 36.0

Manual Integrations
APPROVED

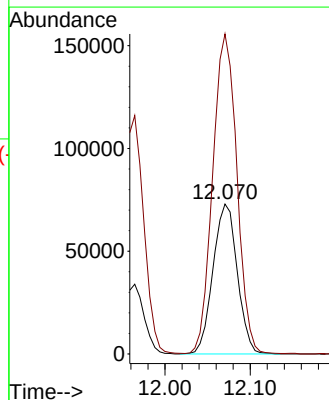
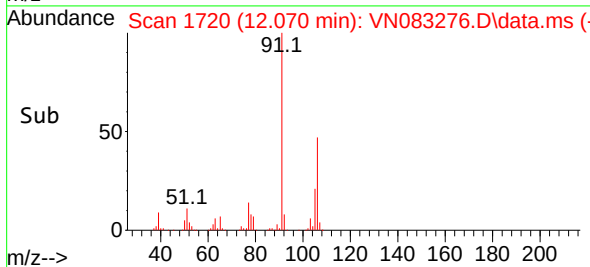
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

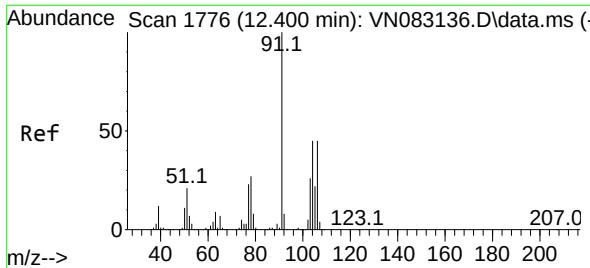


#68
m/p-Xylenes
Concen: 38.770 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10



Tgt Ion:106 Resp: 144204
Ion Ratio Lower Upper
106 100
91 212.3 166.1 249.1





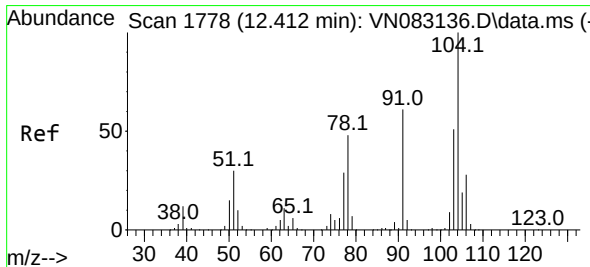
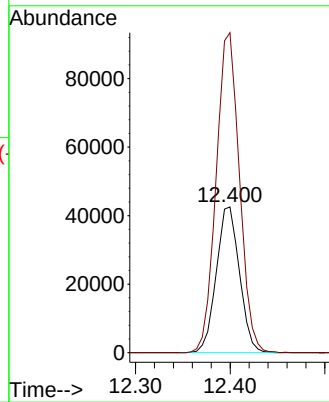
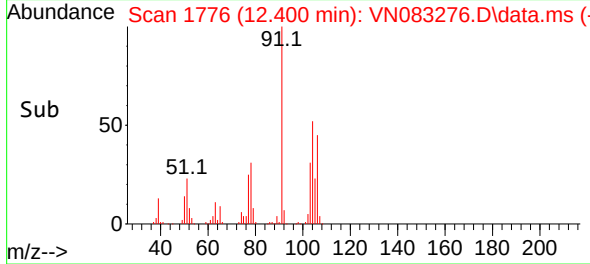
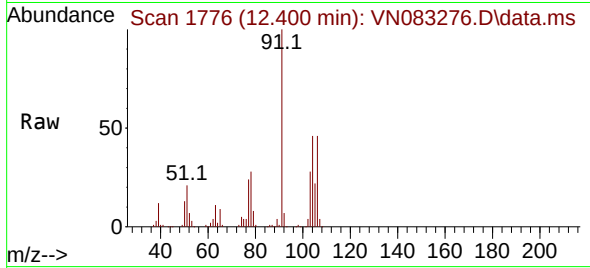
#69
o-Xylene
Concen: 19.744 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Tgt Ion:106 Resp: 72430
Ion Ratio Lower Upper
106 100
91 221.0 111.3 333.9

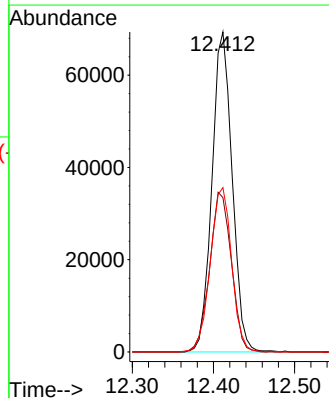
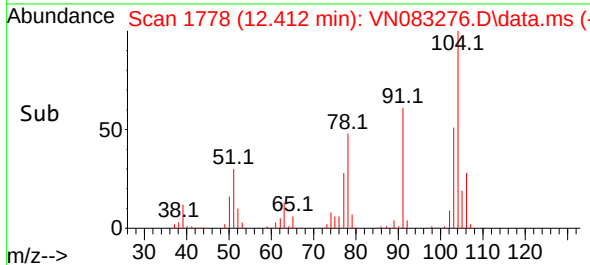
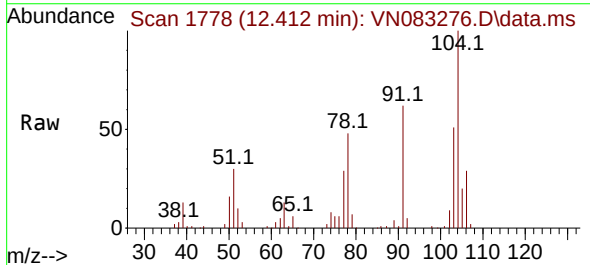
Manual Integrations
APPROVED

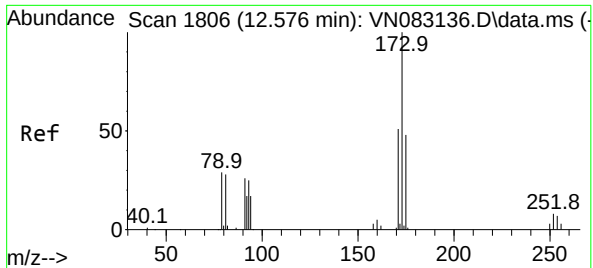
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#70
Styrene
Concen: 19.470 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

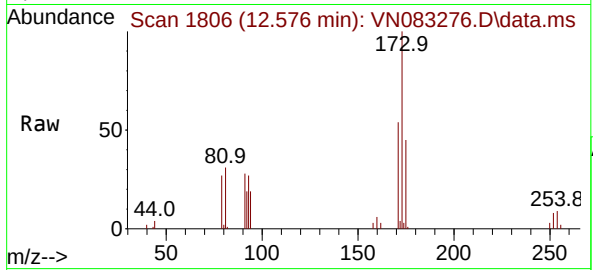
Tgt Ion:104 Resp: 119958
Ion Ratio Lower Upper
104 100
78 53.7 41.6 62.4
103 54.2 44.0 66.0





#71
Bromoform
Concen: 19.073 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

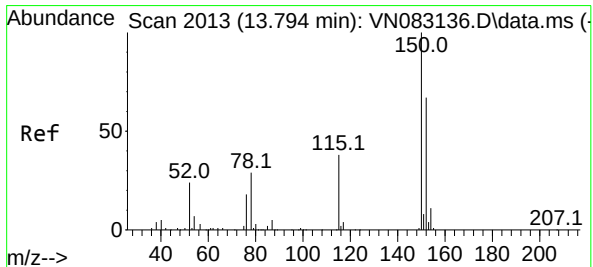
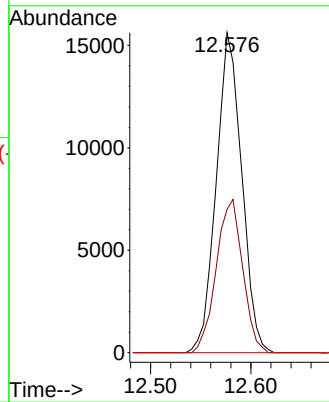
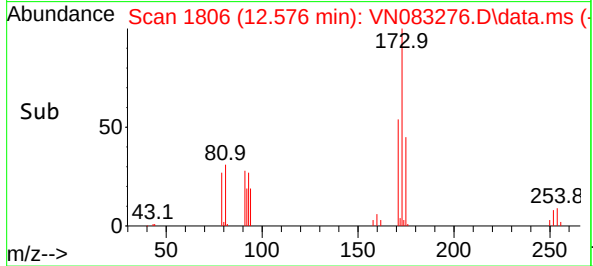
Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03



Tgt Ion:173 Resp: 2758
Ion Ratio Lower Upper
173 100
175 49.6 24.0 72.0
254 0.0 0.0 0.0

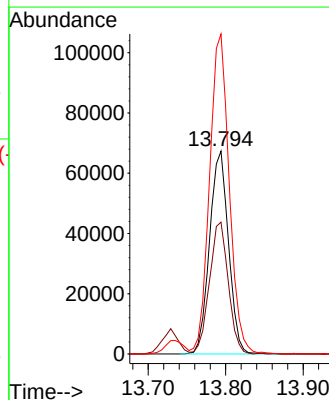
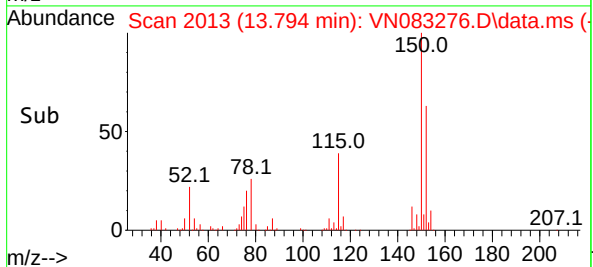
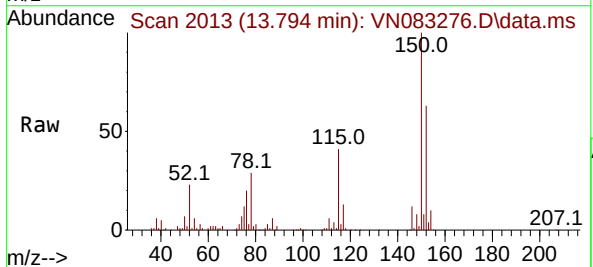
Manual Integrations
APPROVED

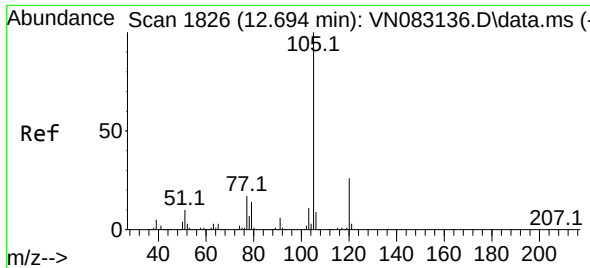
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

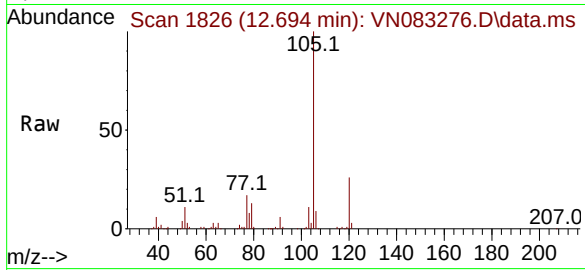
Tgt Ion:152 Resp: 114554
Ion Ratio Lower Upper
152 100
115 64.6 30.6 91.6
150 163.4 0.0 348.6





#73
Isopropylbenzene
Concen: 19.160 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

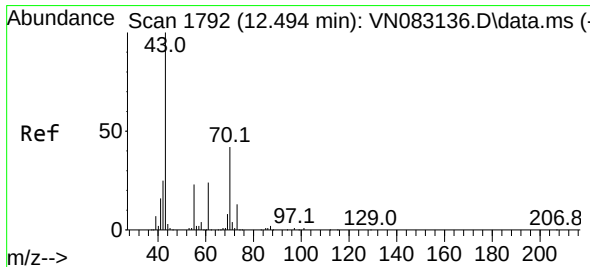
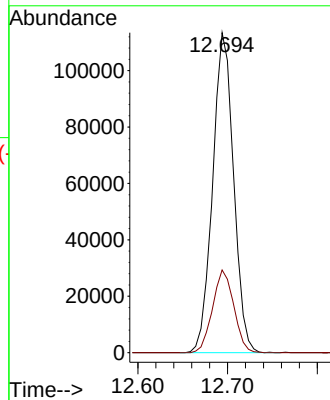
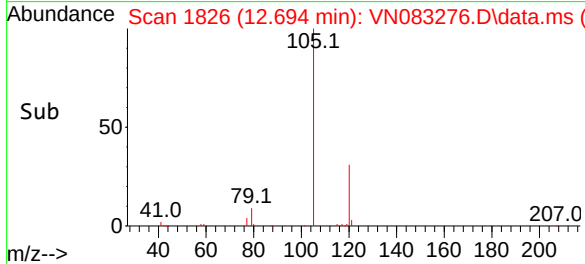
Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03



Tgt Ion: 105 Resp: 183580
Ion Ratio Lower Upper
105 100
120 26.2 12.9 38.6

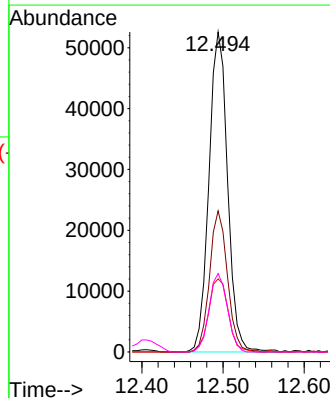
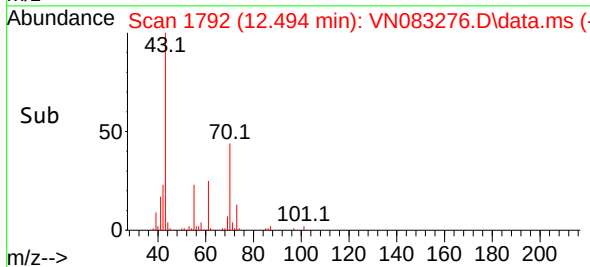
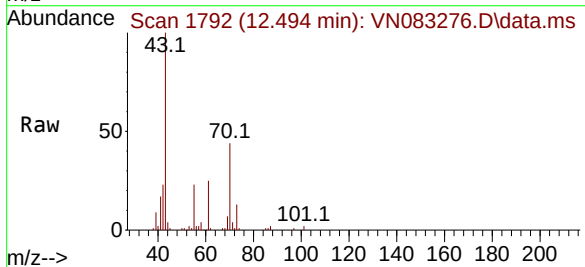
Manual Integrations
APPROVED

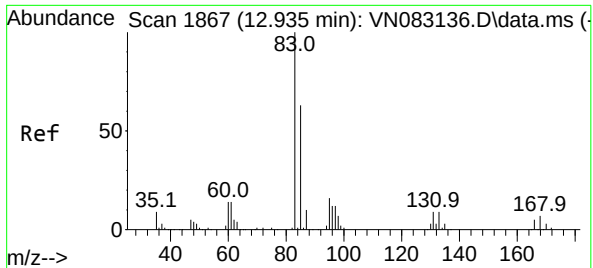
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#74
N-ethyl acetate
Concen: 17.895 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

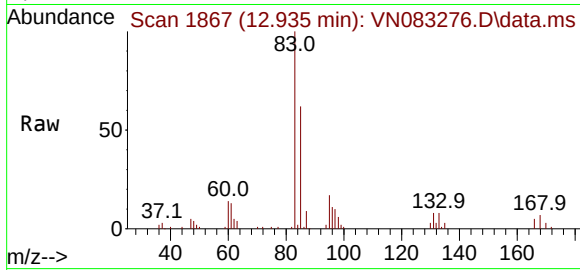
Tgt Ion: 43 Resp: 83867
Ion Ratio Lower Upper
43 100
70 42.4 29.8 44.6
55 24.0 18.7 28.1
61 24.0 17.4 26.0





#75
1,1,2,2-Tetrachloroethane
Concen: 19.837 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

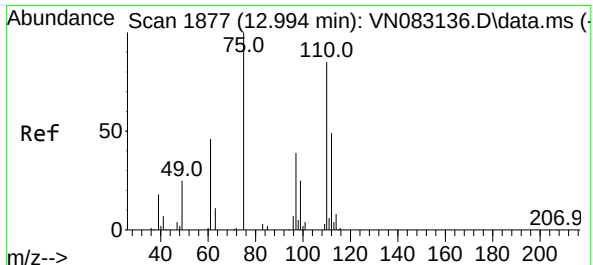
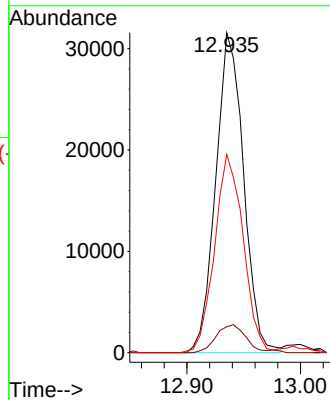
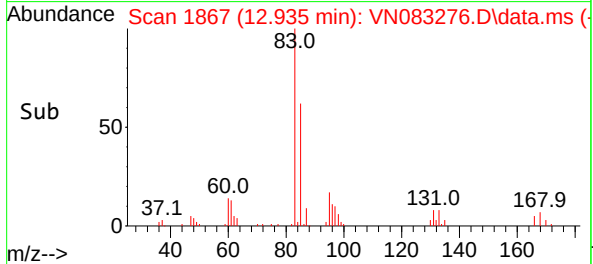
Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03



Tgt Ion: 83 Resp: 5375
Ion Ratio Lower Upper
83 100
131 9.6 5.0 14.9
85 63.6 31.9 95.7

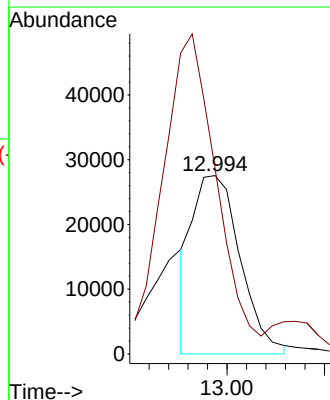
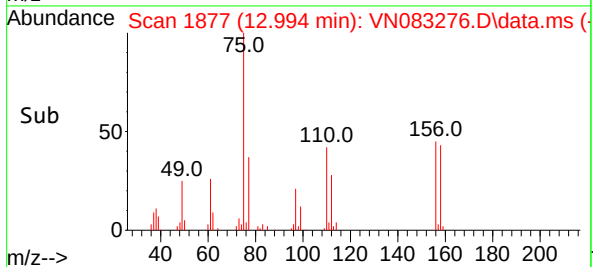
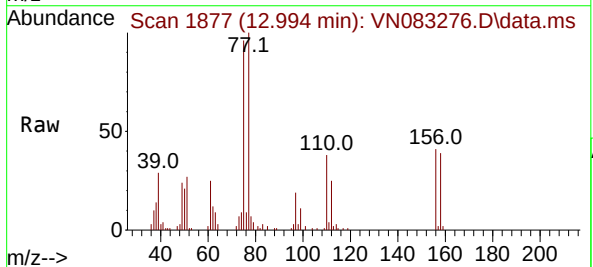
Manual Integrations
APPROVED

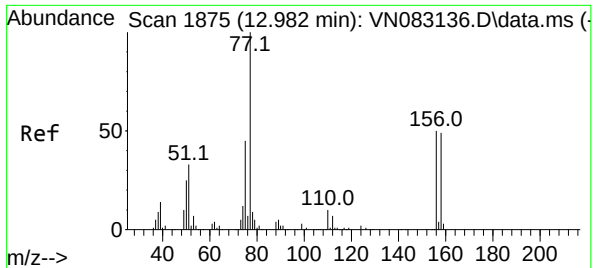
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#76
1,2,3-Trichloropropane
Concen: 18.714 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 75 Resp: 47050
Ion Ratio Lower Upper
75 100
77 203.5 110.9 332.6





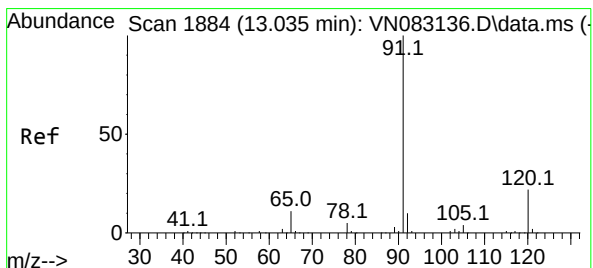
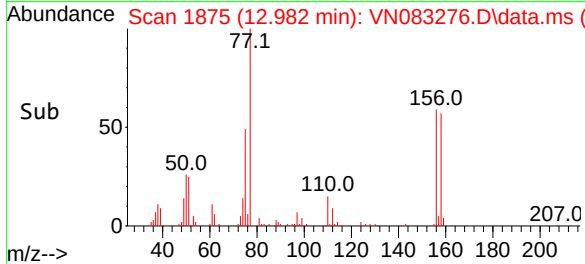
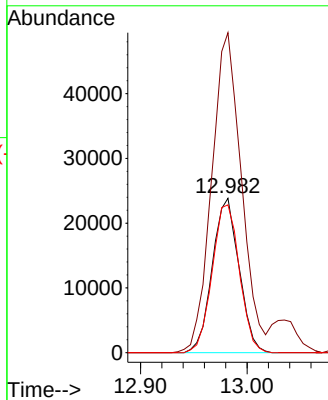
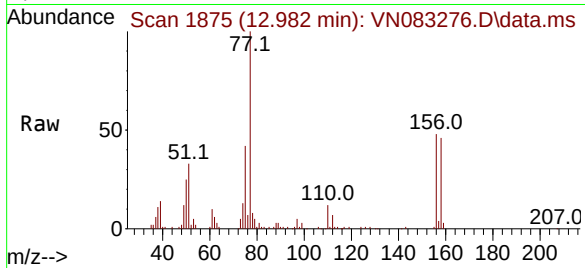
#77
Bromobenzene
Concen: 19.561 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Tgt Ion:156 Resp: 41635
Ion Ratio Lower Upper
156 100
77 230.0 111.3 333.8
158 97.6 48.3 144.9

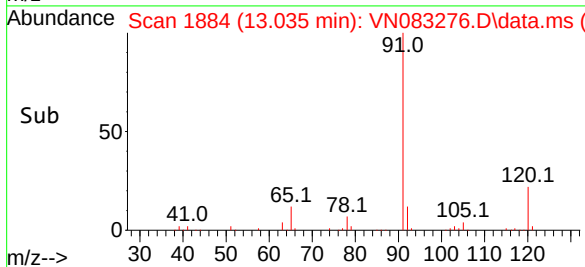
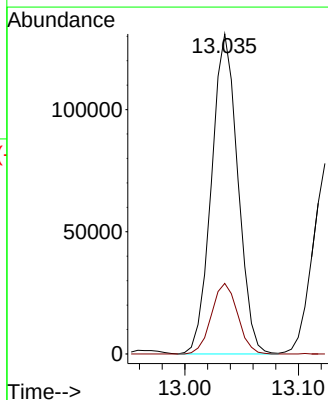
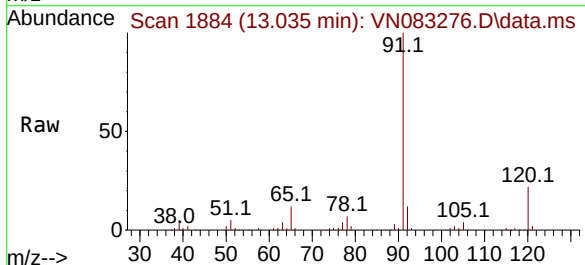
Manual Integrations
APPROVED

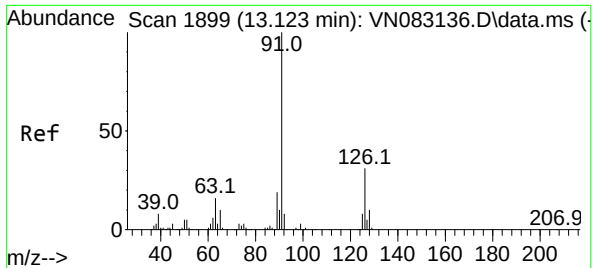
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#78
n-propylbenzene
Concen: 19.187 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion: 91 Resp: 211685
Ion Ratio Lower Upper
91 100
120 21.8 10.9 32.9





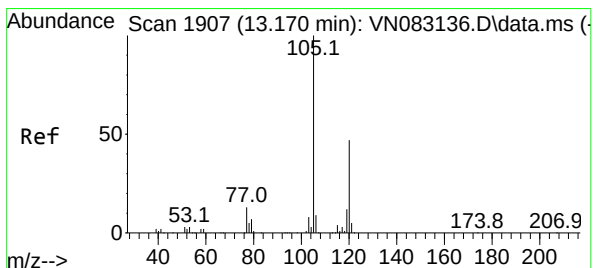
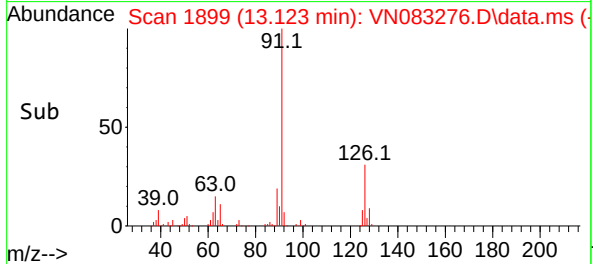
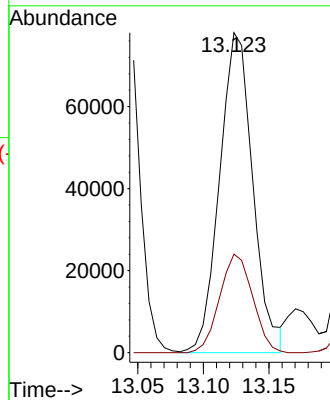
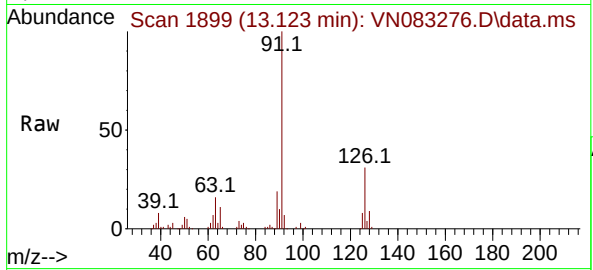
#79
2-Chlorotoluene
Concen: 19.656 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Tgt Ion: 91 Resp: 137489
Ion Ratio Lower Upper
91 100
126 30.6 16.2 48.6

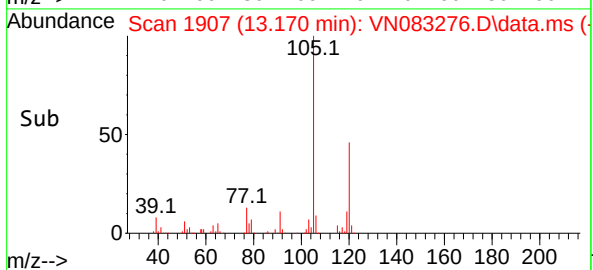
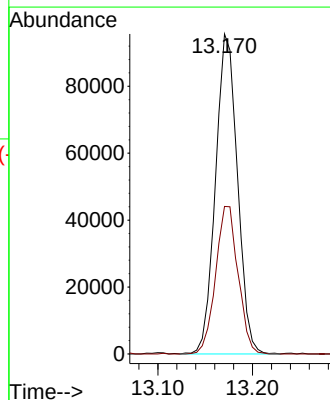
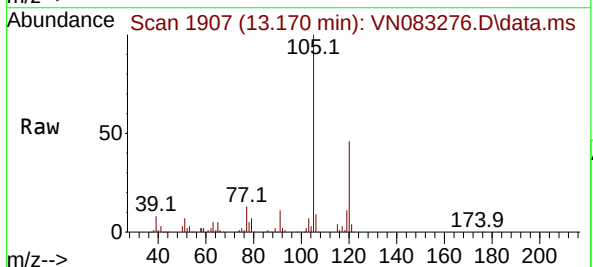
Manual Integrations
APPROVED

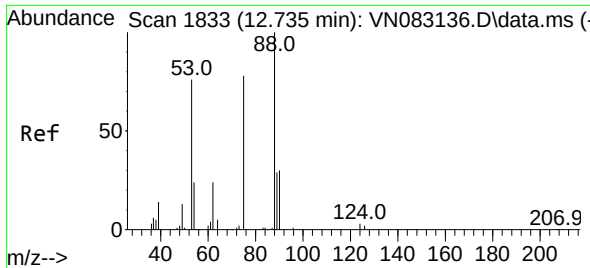
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#80
1,3,5-Trimethylbenzene
Concen: 19.233 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

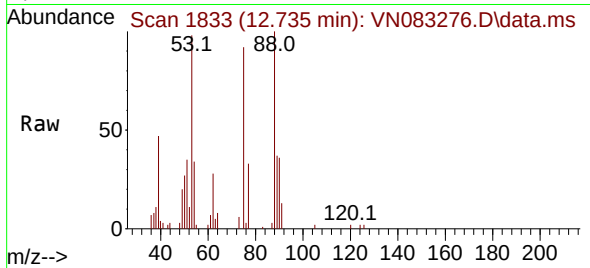
Tgt Ion:105 Resp: 154286
Ion Ratio Lower Upper
105 100
120 47.1 24.3 72.8





#81
trans-1,4-Dichloro-2-butene
Concen: 14.033 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

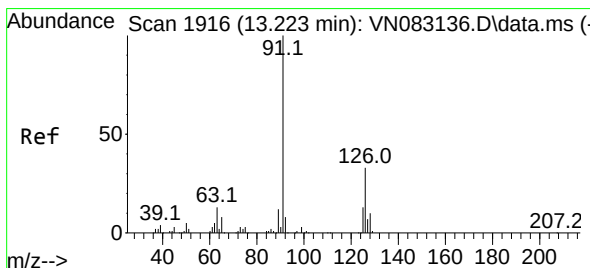
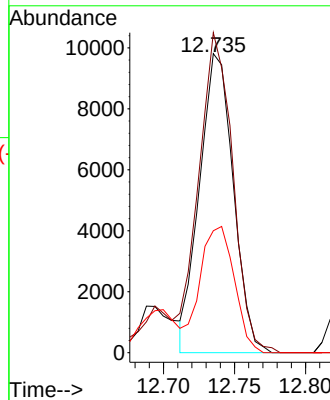
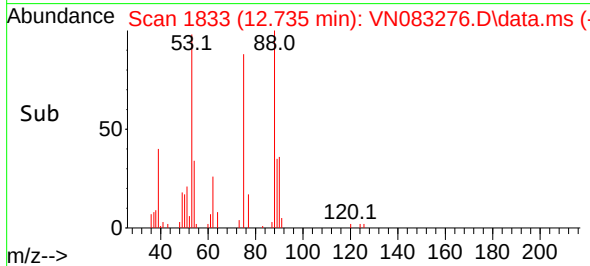
Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03



Tgt Ion: 75 Resp: 16220
Ion Ratio Lower Upper
75 100
53 109.1 88.4 132.6
89 43.3 36.3 54.5

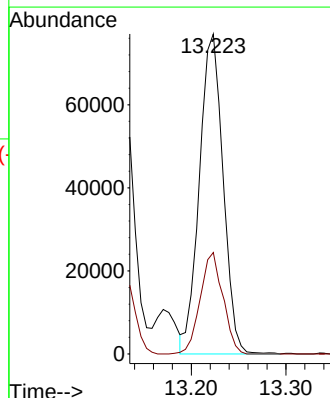
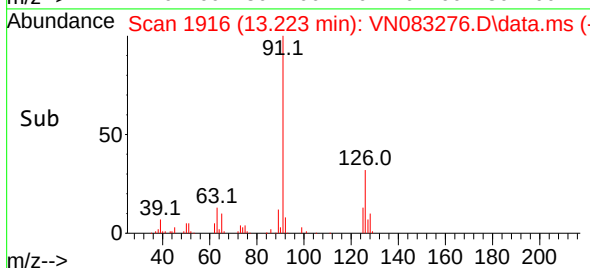
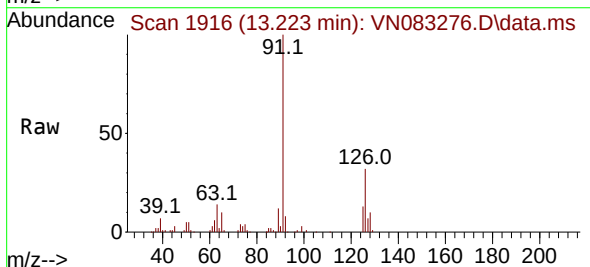
Manual Integrations
APPROVED

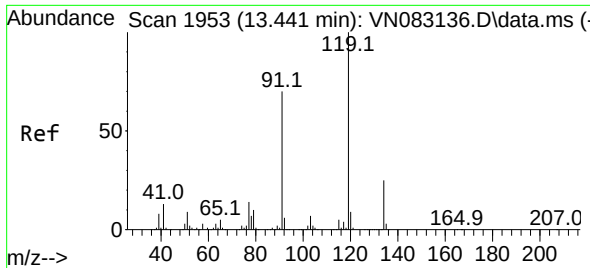
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#82
4-Chlorotoluene
Concen: 19.104 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

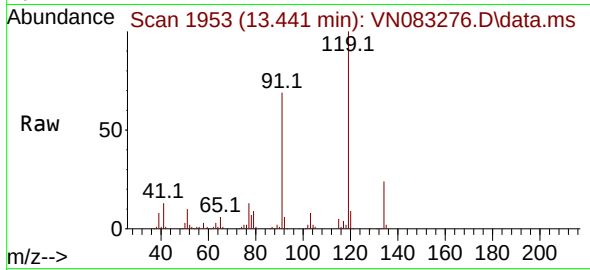
Tgt Ion: 91 Resp: 134043
Ion Ratio Lower Upper
91 100
126 30.4 16.2 48.6





#83
tert-Butylbenzene
Concen: 19.399 ug/l
RT: 13.441 min Scan# 1953
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

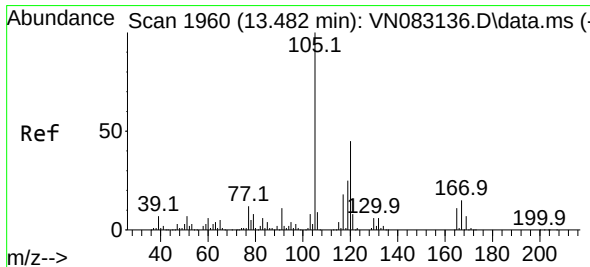
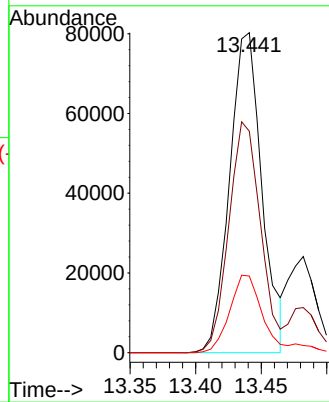
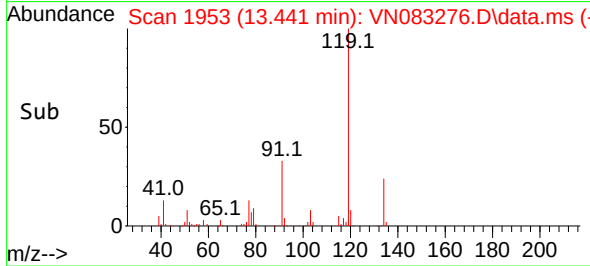
Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03



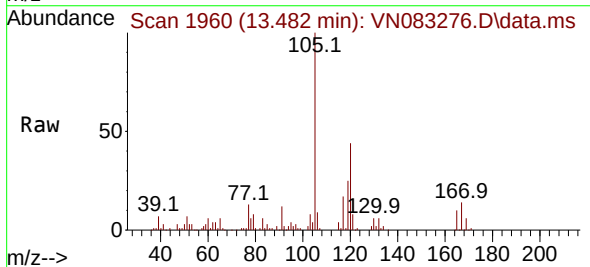
Tgt Ion:119 Resp: 137808
Ion Ratio Lower Upper
119 100
91 71.1 35.0 105.1
134 24.2 13.3 39.8

Manual Integrations
APPROVED

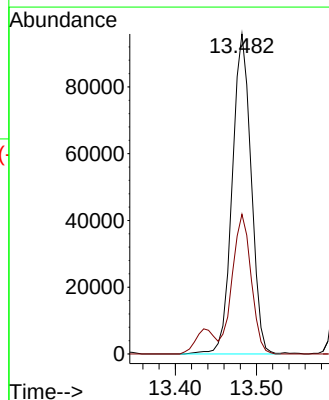
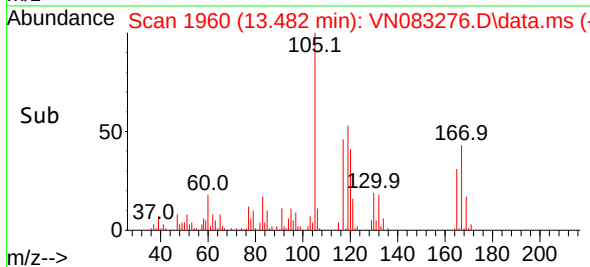
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024

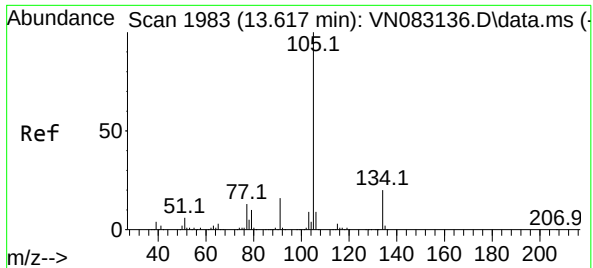


#84
1,2,4-Trimethylbenzene
Concen: 19.149 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10



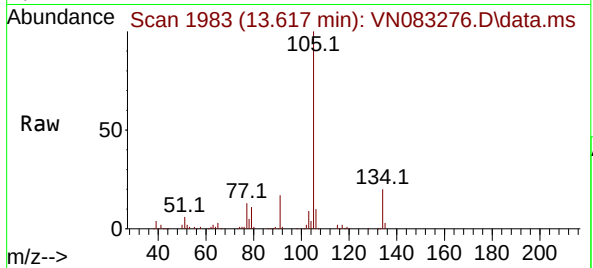
Tgt Ion:105 Resp: 154805
Ion Ratio Lower Upper
105 100
120 43.6 21.9 65.8





#85
 sec-Butylbenzene
 Concen: 18.978 ug/l
 RT: 13.617 min Scan# 1983
 Delta R.T. -0.000 min
 Lab File: VN083276.D
 Acq: 14 Aug 2024 04:10

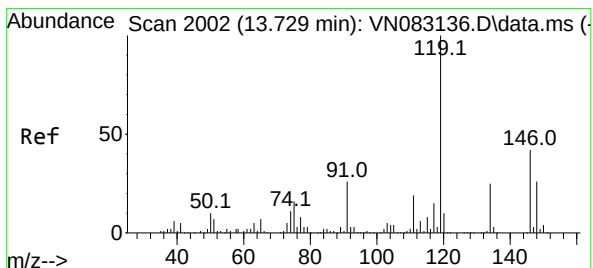
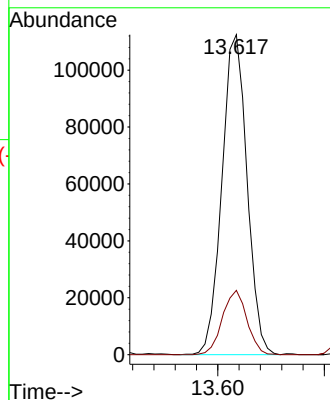
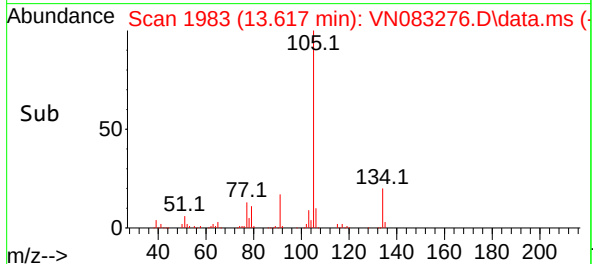
Instrument : MSVOA_N
 ClientSampleId : VN0813WBS03



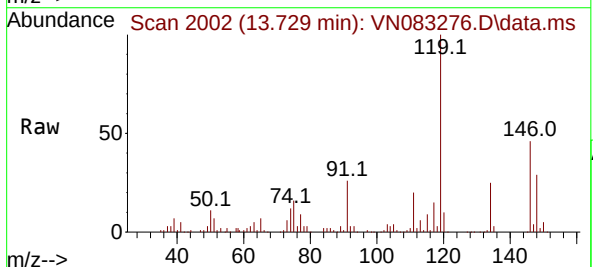
Tgt Ion:105 Resp: 18395
 Ion Ratio Lower Upper
 105 100
 134 19.6 9.8 29.3

Manual Integrations
 APPROVED

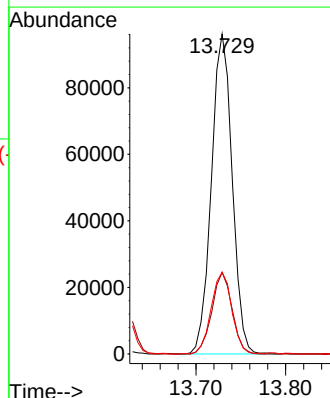
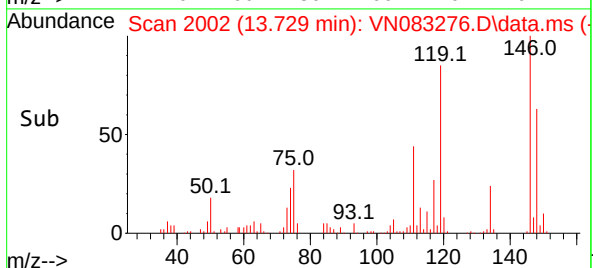
Reviewed By :John Carlone 08/14/2024
 Supervised By :Mahesh Dadoda 08/14/2024

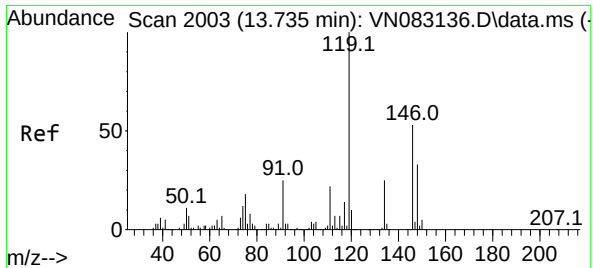


#86
 p-Isopropyltoluene
 Concen: 19.332 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. -0.000 min
 Lab File: VN083276.D
 Acq: 14 Aug 2024 04:10



Tgt Ion:119 Resp: 154726
 Ion Ratio Lower Upper
 119 100
 134 24.7 13.0 39.0
 91 25.4 12.3 36.9





#87

1,3-Dichlorobenzene

Concen: 18.784 ug/l

RT: 13.729 min Scan# 2003

Delta R.T. -0.006 min

Lab File: VN083276.D

Acq: 14 Aug 2024 04:10

Instrument :

MSVOA_N

ClientSampleId :

VN0813WBS03

Tgt Ion:146 Resp: 7523

Ion Ratio Lower Upper

146 100

111 44.1 20.6 61.9

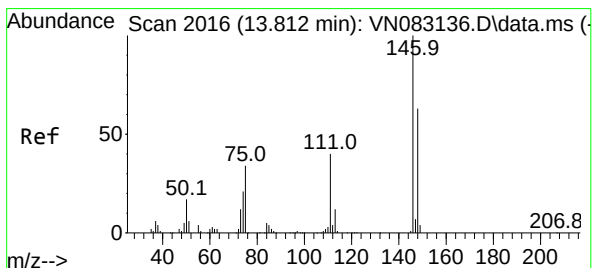
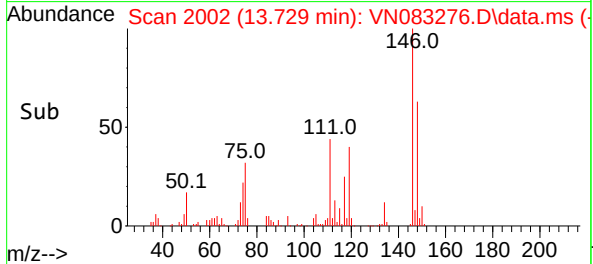
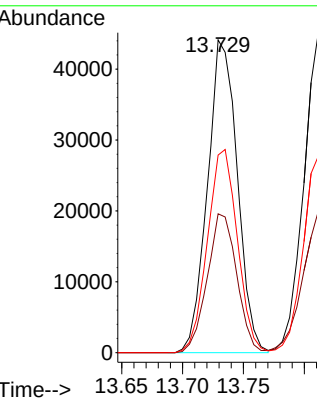
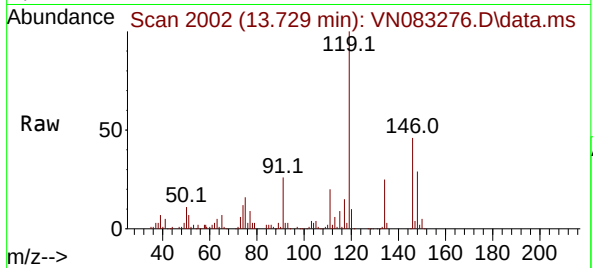
148 65.4 31.8 95.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/14/2024

Supervised By :Mahesh Dadoda 08/14/2024



#88

1,4-Dichlorobenzene

Concen: 18.897 ug/l

RT: 13.811 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN083276.D

Acq: 14 Aug 2024 04:10

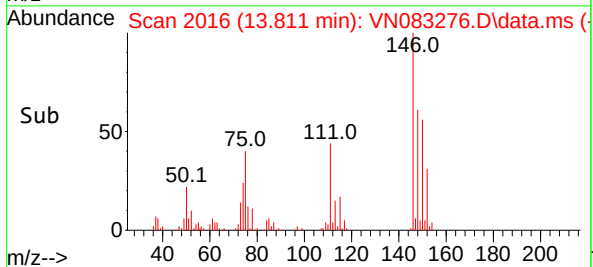
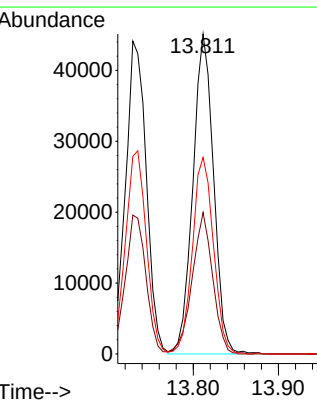
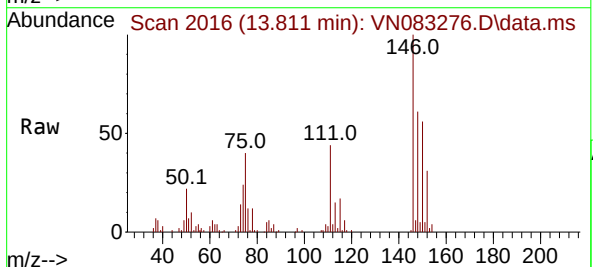
Tgt Ion:146 Resp: 76298

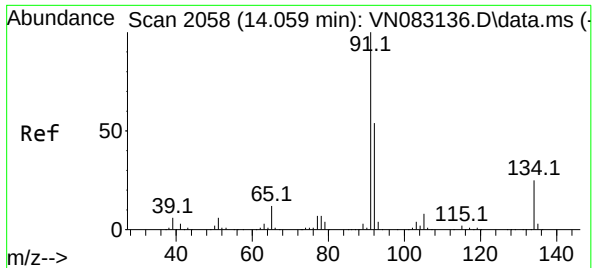
Ion Ratio Lower Upper

146 100

111 43.9 20.1 60.3

148 62.4 32.2 96.6





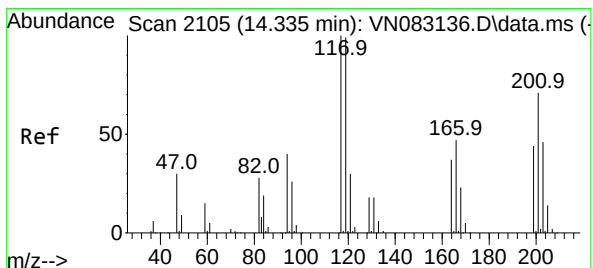
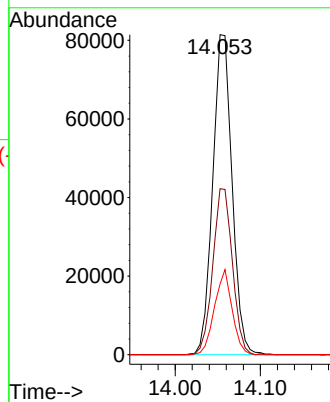
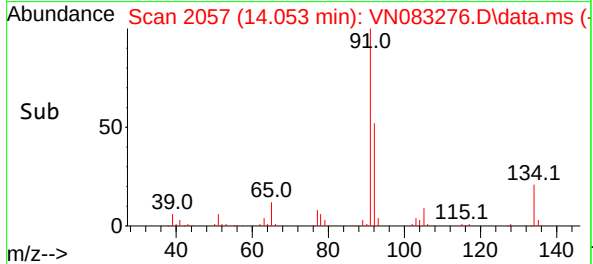
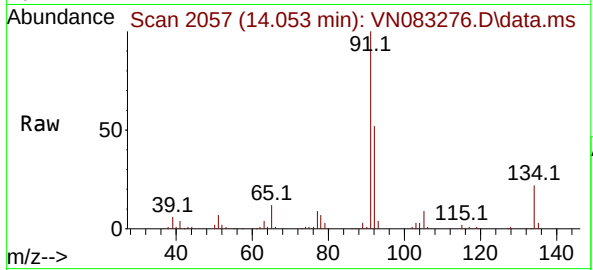
#89
n-Butylbenzene
Concen: 18.531 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.006 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03

Tgt Ion: 91 Resp: 12851
Ion Ratio Lower Upper
91 100
92 52.6 26.1 78.3
134 24.1 12.1 36.3

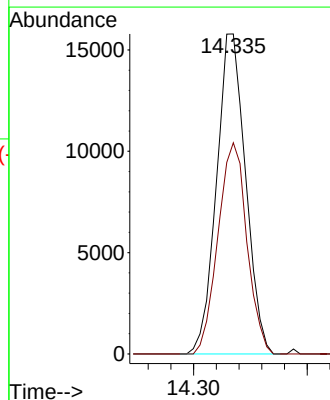
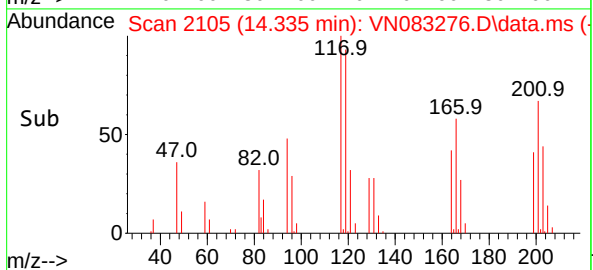
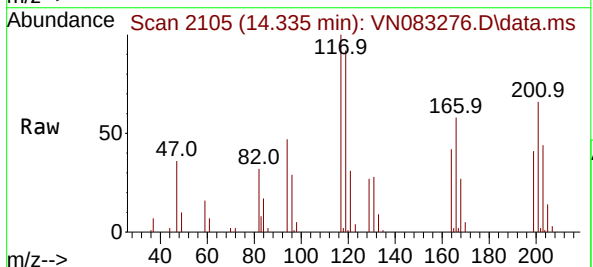
Manual Integrations
APPROVED

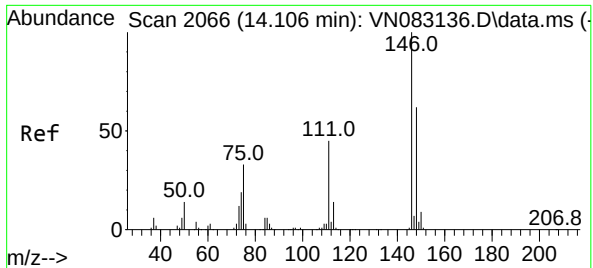
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#90
Hexachloroethane
Concen: 18.148 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

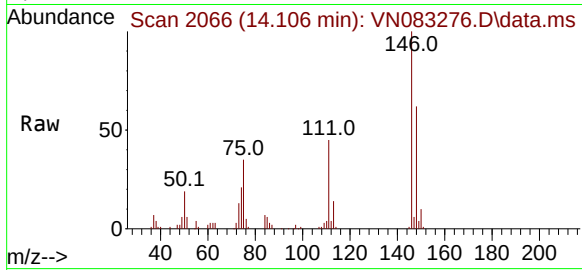
Tgt Ion:117 Resp: 28062
Ion Ratio Lower Upper
117 100
201 65.5 35.8 107.3





#91
1,2-Dichlorobenzene
Concen: 19.369 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

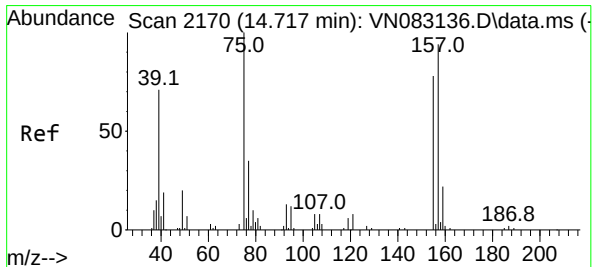
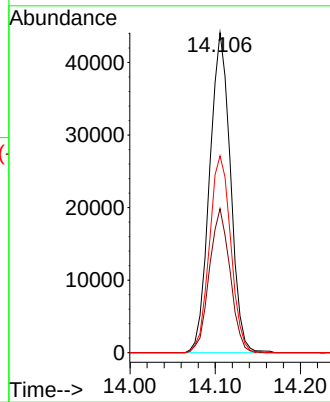
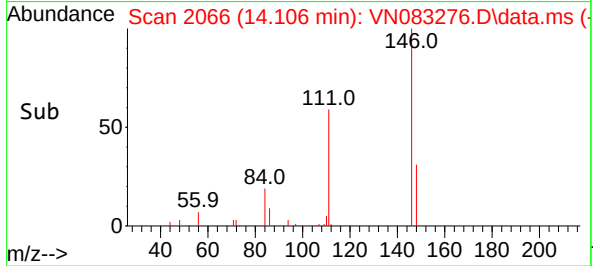
Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03



Tgt Ion:146 Resp: 7506
Ion Ratio Lower Upper
146 100
111 44.8 21.4 64.2
148 62.9 32.1 96.5

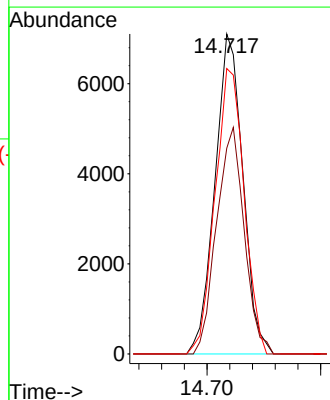
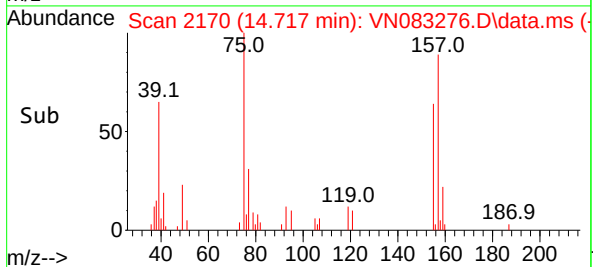
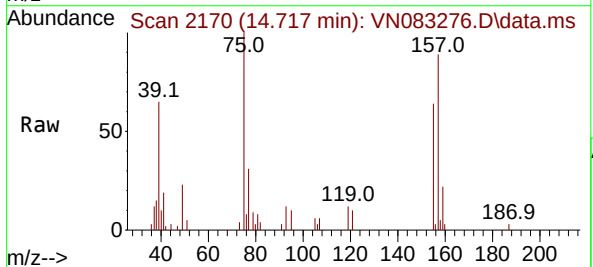
Manual Integrations
APPROVED

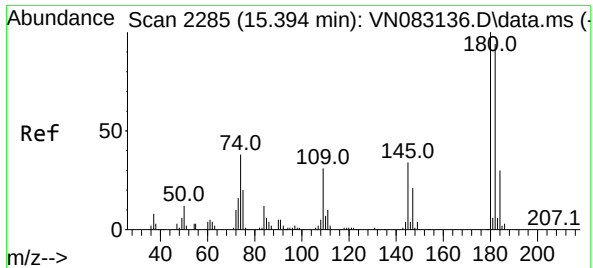
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#92
1,2-Dibromo-3-Chloropropane
Concen: 18.433 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

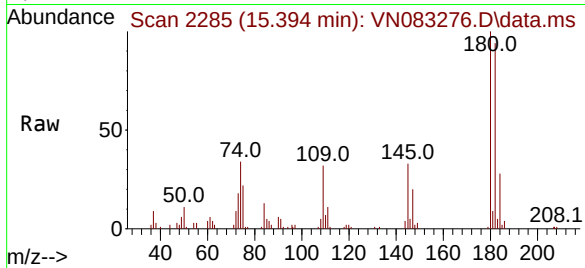
Tgt Ion: 75 Resp: 12122
Ion Ratio Lower Upper
75 100
155 70.3 36.6 109.8
157 92.6 46.9 140.6





#93
1,2,4-Trichlorobenzene
Concen: 18.323 ug/l
RT: 15.394 min Scan# 2285
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

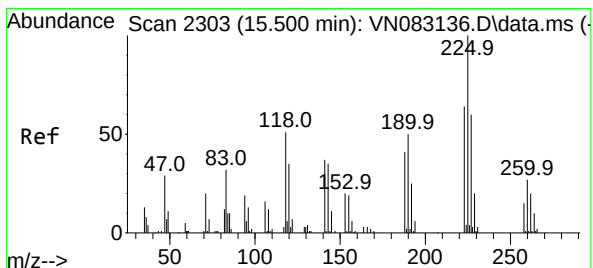
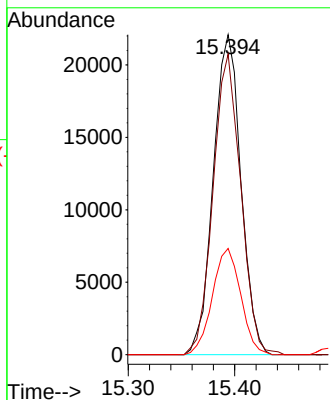
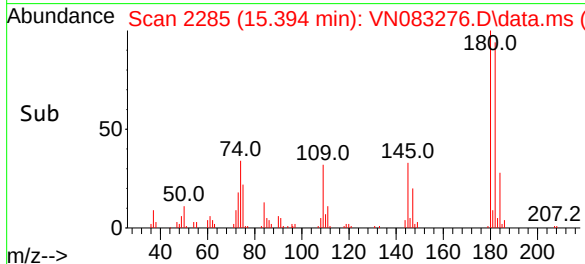
Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03



Tgt Ion:180 Resp: 3978
Ion Ratio Lower Upper
180 100
182 93.8 47.3 141.8
145 34.0 15.7 47.1

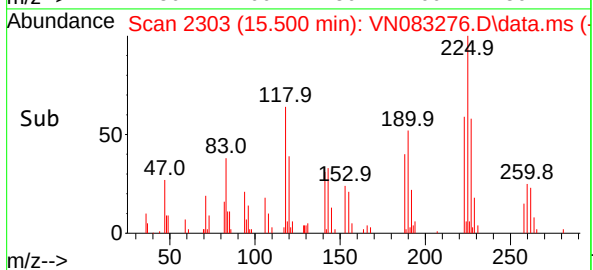
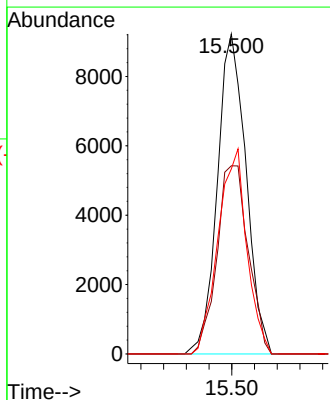
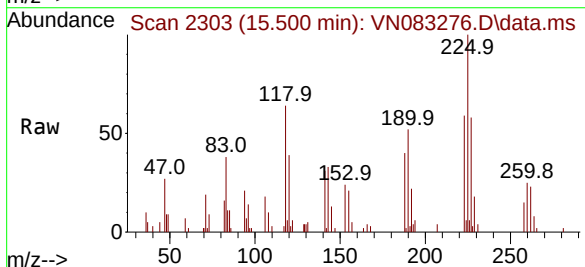
Manual Integrations
APPROVED

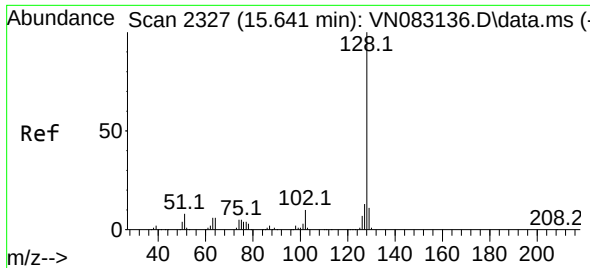
Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#94
Hexachlorobutadiene
Concen: 16.733 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

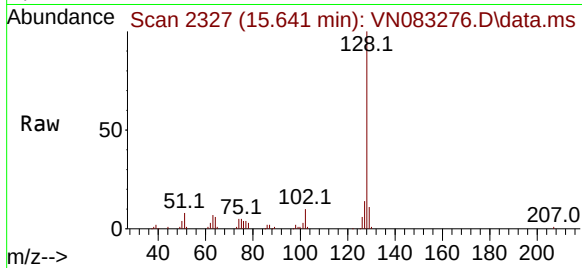
Tgt Ion:225 Resp: 16158
Ion Ratio Lower Upper
225 100
223 64.5 31.9 95.7
227 64.2 32.5 97.5





#95
Naphthalene
Concen: 18.081 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

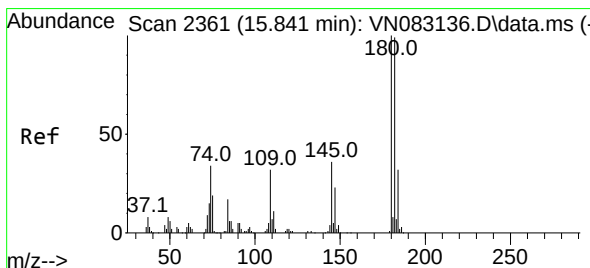
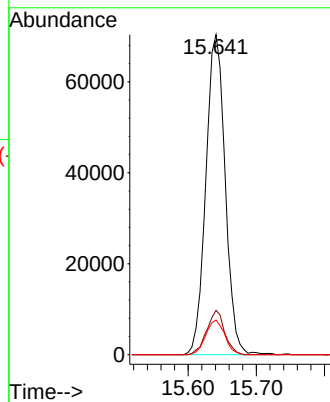
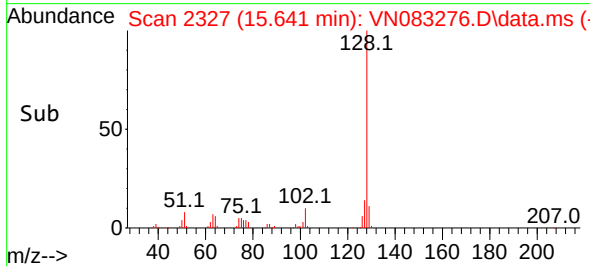
Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS03



Tgt Ion:128 Resp: 139064
Ion Ratio Lower Upper
128 100
127 12.8 10.6 16.0
129 10.6 8.6 12.8

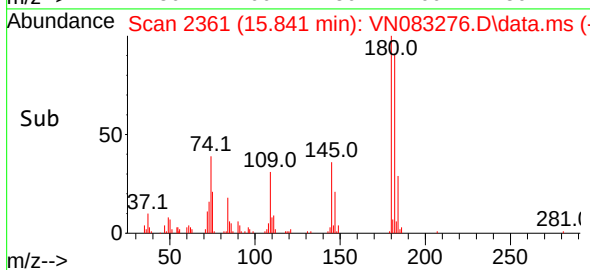
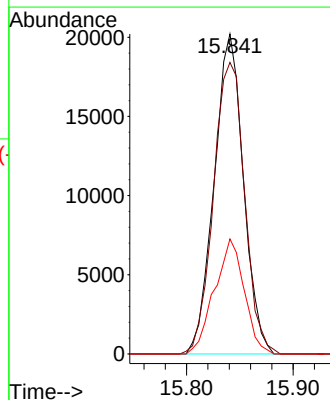
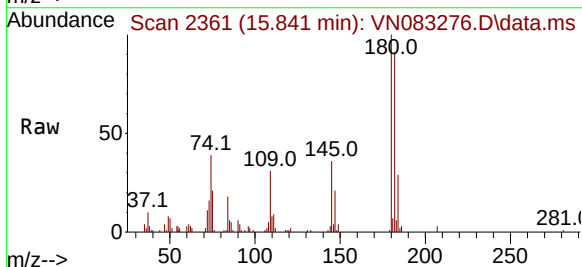
Manual Integrations
APPROVED

Reviewed By :John Carlone 08/14/2024
Supervised By :Mahesh Dadoda 08/14/2024



#96
1,2,3-Trichlorobenzene
Concen: 17.941 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. -0.000 min
Lab File: VN083276.D
Acq: 14 Aug 2024 04:10

Tgt Ion:180 Resp: 38544
Ion Ratio Lower Upper
180 100
182 97.1 48.9 146.8
145 36.5 16.8 50.4



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/02/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/02/24
Client Sample ID:	924-K1-WP0-0.25-080224MS	SDG No.:	P3451
Lab Sample ID:	P3466-02MS	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group6
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083291.D	1		08/14/24 10:28	VN081324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	49.6		0.21	1.00	ug/L
74-87-3	Chloromethane	50.6		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	53.7		0.34	1.00	ug/L
74-83-9	Bromomethane	40.3		1.40	5.00	ug/L
75-00-3	Chloroethane	56.4		0.56	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	53.7		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	52.0		0.26	1.00	ug/L
67-64-1	Acetone	250		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	44.0		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	55.1		0.16	1.00	ug/L
75-09-2	Methylene Chloride	51.5		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	51.7		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	55.9		0.23	1.00	ug/L
110-82-7	Cyclohexane	46.9		1.60	5.00	ug/L
78-93-3	2-Butanone	260		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	53.3		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	53.0		0.25	1.00	ug/L
67-66-3	Chloroform	57.4		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	55.4		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	46.5		0.19	1.00	ug/L
71-43-2	Benzene	52.7		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	54.8		0.24	1.00	ug/L
79-01-6	Trichloroethene	51.1		0.32	1.00	ug/L
75-27-4	Bromodichloromethane	53.2		0.24	1.00	ug/L
108-88-3	Toluene	53.8		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	56.4		0.21	1.00	ug/L
124-48-1	Dibromochloromethane	55.2		0.18	1.00	ug/L
127-18-4	Tetrachloroethene	47.8		0.25	1.00	ug/L
108-90-7	Chlorobenzene	51.2		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	51.4		0.16	1.00	ug/L

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/02/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/02/24
Client Sample ID:	924-K1-WP0-0.25-080224MS	SDG No.:	P3451
Lab Sample ID:	P3466-02MS	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group6
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083291.D	1		08/14/24 10:28	VN081324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
179601-23-1	m/p-Xylenes	100		0.31	2.00	ug/L
1330-20-7	Total Xylenes	152		0.45	3.00	ug/L
95-47-6	o-Xylene	51.6		0.14	1.00	ug/L
98-82-8	Isopropylbenzene	49.7		0.13	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	49.4		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	49.5		0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.3		70 (74) - 130 (125)	117%	SPK: 50
1868-53-7	Dibromofluoromethane	54.5		70 (75) - 130 (124)	109%	SPK: 50
2037-26-5	Toluene-d8	53.6		70 (86) - 130 (113)	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.6		70 (77) - 130 (121)	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	148000	8.224			
540-36-3	1,4-Difluorobenzene	267000	9.1			
3114-55-4	Chlorobenzene-d5	237000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	114000	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 OC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
 Data File : VN083291.D
 Acq On : 14 Aug 2024 10:28
 Operator : JC\MD
 Sample : P3466-02MS
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 924-K1-WP0-0.25-080224MS

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
 Supervised By :Semsettin Yesilyurt 08/16/2024

Quant Time: Aug 14 14:15:28 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 06:30:41 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	147545	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	267105	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	236618	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	114165	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	122369	58.267	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 116.540%			
35) Dibromofluoromethane	8.165	113	90920	54.534	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.060%			
50) Toluene-d8	10.565	98	333167	53.572	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 107.140%			
62) 4-Bromofluorobenzene	12.847	95	132370	54.595	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 109.200%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	82997	49.604	ug/l	96
3) Chloromethane	2.365	50	86740	50.636	ug/l	98
4) Vinyl Chloride	2.512	62	93887	53.714	ug/l	99
5) Bromomethane	2.942	94	43709	40.300	ug/l	94
6) Chloroethane	3.112	64	61659	56.384	ug/l	99
7) Trichlorofluoromethane	3.494	101	161438	55.909	ug/l	95
8) Diethyl Ether	3.959	74	57031	53.078	ug/l	85
9) 1,1,2-Trichlorotrifluo...	4.371	101	85461	53.682	ug/l	97
10) Methyl Iodide	4.583	142	82185	39.245	ug/l	97
11) Tert butyl alcohol	5.524	59	114912	263.289	ug/l	100
12) 1,1-Dichloroethene	4.341	96	85068	52.011	ug/l	88
13) Acrolein	4.177	56	66719	234.553	ug/l	97
14) Allyl chloride	5.024	41	131317	42.486	ug/l	92
15) Acrylonitrile	5.718	53	241693	269.261	ug/l	99
16) Acetone	4.430	43	208489	253.705	ug/l	96
17) Carbon Disulfide	4.712	76	210417	43.968	ug/l	99
18) Methyl Acetate	5.030	43	108637	44.370	ug/l	92
19) Methyl tert-butyl Ether	5.794	73	325125	55.073	ug/l	99
20) Methylene Chloride	5.277	84	97482	51.543	ug/l	84
21) trans-1,2-Dichloroethene	5.788	96	87367	51.683	ug/l	90
22) Diisopropyl ether	6.671	45	321877	55.402	ug/l	98
23) Vinyl Acetate	6.606	43	1279268	214.822	ug/l #	94
24) 1,1-Dichloroethane	6.559	63	176895	55.860	ug/l	100
25) 2-Butanone	7.482	43	323699	256.535	ug/l	93
26) 2,2-Dichloropropane	7.488	77	74497	25.331	ug/l	93
27) cis-1,2-Dichloroethene	7.488	96	108174	53.030	ug/l	88
28) Bromochloromethane	7.812	49	71165	54.989	ug/l	87
29) Tetrahydrofuran	7.841	42	223288	273.745	ug/l	88
30) Chloroform	7.965	83	188887	57.412	ug/l	97
31) Cyclohexane	8.259	56	146060	46.930	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	172642	55.438	ug/l	96
36) 1,1-Dichloropropene	8.371	75	128085	50.786	ug/l	99
37) Ethyl Acetate	7.565	43	111903	39.628	ug/l #	94
38) Carbon Tetrachloride	8.365	117	151450	53.316	ug/l	99
39) Methylcyclohexane	9.600	83	144098	46.518	ug/l	93
40) Benzene	8.606	78	395669	52.663	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
 Data File : VN083291.D
 Acq On : 14 Aug 2024 10:28
 Operator : JC\MD
 Sample : P3466-02MS
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 924-K1-WP0-0.25-080224MS

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
 Supervised By :Semsettin Yesilyurt 08/16/2024

Quant Time: Aug 14 14:15:28 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 06:30:41 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	77441	48.232	ug/l	95
42) 1,2-Dichloroethane	8.671	62	150044	54.823	ug/l	98
43) Isopropyl Acetate	8.688	43	222619	45.145	ug/l #	93
44) Trichloroethene	9.353	130	91313	51.061	ug/l	93
45) 1,2-Dichloropropane	9.618	63	98166	55.044	ug/l	99
46) Dibromomethane	9.706	93	71294	55.850	ug/l	98
47) Bromodichloromethane	9.888	83	152349	53.153	ug/l	100
48) Methyl methacrylate	9.682	41	113855	48.769	ug/l	91
49) 1,4-Dioxane	9.694	88	39426	936.076	ug/l	96
51) 4-Methyl-2-Pentanone	10.447	43	710872	266.212	ug/l	93
52) Toluene	10.629	92	255610	53.845	ug/l	98
53) t-1,3-Dichloropropene	10.835	75	139852	47.500	ug/l	100
54) cis-1,3-Dichloropropene	10.312	75	145290	46.395	ug/l	92
55) 1,1,2-Trichloroethane	11.018	97	95913	56.379	ug/l	96
56) Ethyl methacrylate	10.876	69	168724	52.609	ug/l	88
57) 1,3-Dichloropropane	11.165	76	164803	54.349	ug/l	99
59) 2-Hexanone	11.194	43	533360	258.178	ug/l	94
60) Dibromochloromethane	11.359	129	113552	55.207	ug/l	99
61) 1,2-Dibromoethane	11.470	107	95465	53.418	ug/l	96
64) Tetrachloroethene	11.106	164	74983	47.849	ug/l	96
65) Chlorobenzene	11.894	112	267734	51.202	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	96243	52.188	ug/l	99
67) Ethyl Benzene	11.964	91	493460	51.443	ug/l	100
68) m/p-Xylenes	12.070	106	367755	102.346	ug/l	98
69) o-Xylene	12.400	106	182861	51.599	ug/l	100
70) Styrene	12.412	104	307766	51.707	ug/l	99
71) Bromoform	12.576	173	72561	51.938	ug/l #	99
73) Isopropylbenzene	12.694	105	474897	49.732	ug/l	100
74) N-amyl acetate	12.494	43	178930	38.308	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.935	83	138825	51.402	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	105179m	41.977	ug/l	
77) Bromobenzene	12.982	156	108487	51.143	ug/l	98
78) n-propylbenzene	13.035	91	548792	49.911	ug/l	100
79) 2-Chlorotoluene	13.123	91	348757	50.029	ug/l	96
80) 1,3,5-Trimethylbenzene	13.176	105	398348	49.827	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.741	75	43995	38.194	ug/l	88
82) 4-Chlorotoluene	13.223	91	347826	49.743	ug/l	98
83) tert-Butylbenzene	13.441	119	352698	49.817	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	404542	50.212	ug/l	100
85) sec-Butylbenzene	13.617	105	474766	49.145	ug/l	99
86) p-Isopropyltoluene	13.729	119	399173	50.044	ug/l	98
87) 1,3-Dichlorobenzene	13.735	146	197945	49.593	ug/l	98
88) 1,4-Dichlorobenzene	13.811	146	198776	49.398	ug/l	99
89) n-Butylbenzene	14.058	91	327504	47.385	ug/l	98
90) Hexachloroethane	14.335	117	74906	48.608	ug/l	94
91) 1,2-Dichlorobenzene	14.106	146	191027	49.457	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	30124	45.965	ug/l	99
93) 1,2,4-Trichlorobenzene	15.394	180	100832	46.598	ug/l	98
94) Hexachlorobutadiene	15.500	225	39541	41.088	ug/l	100
95) Naphthalene	15.641	128	366023	47.753	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	102340	47.797	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083291.D
Acq On : 14 Aug 2024 10:28
Operator : JC\MD
Sample : P3466-02MS
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 52 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

Quant Time: Aug 14 14:15:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

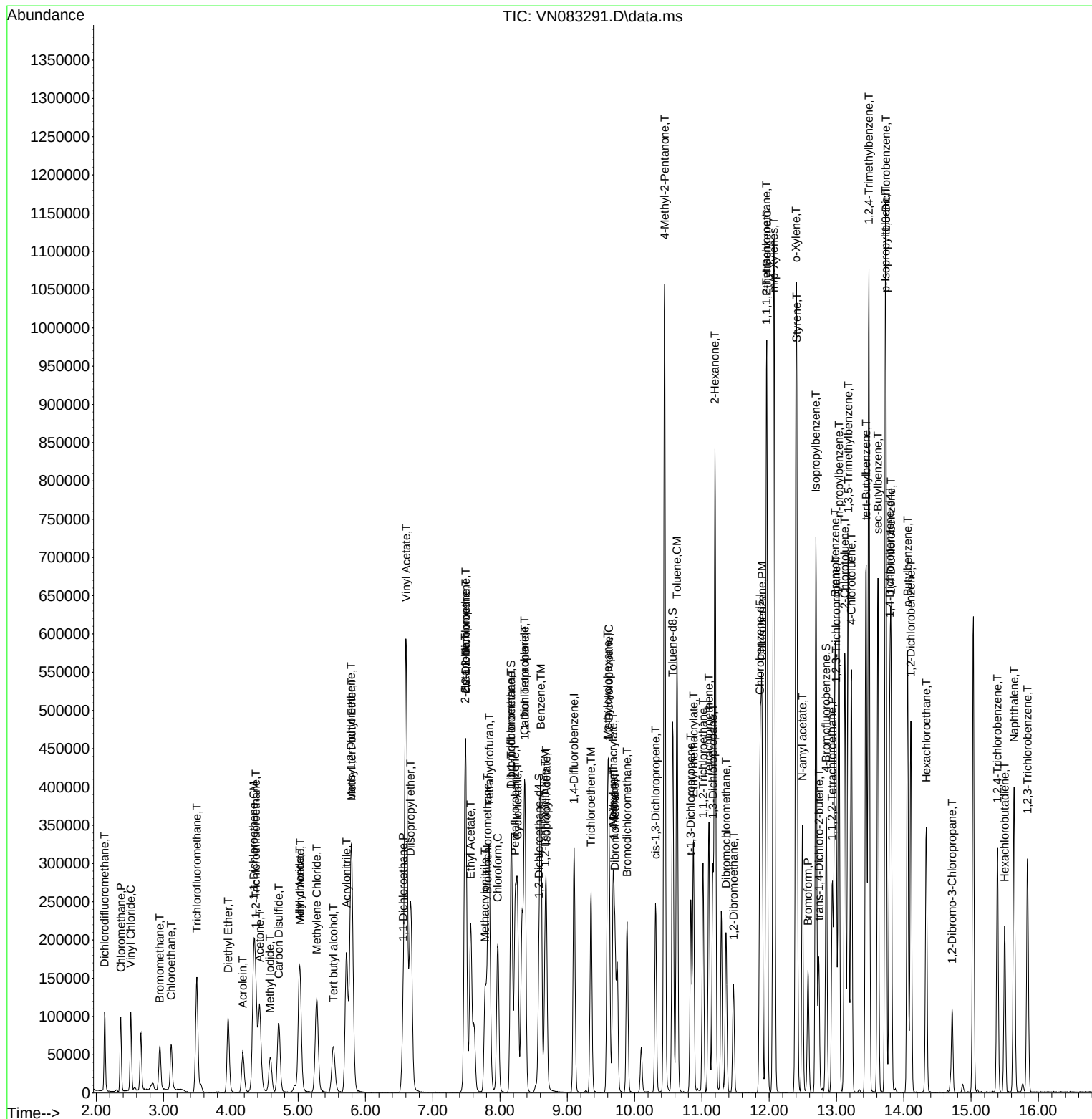
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

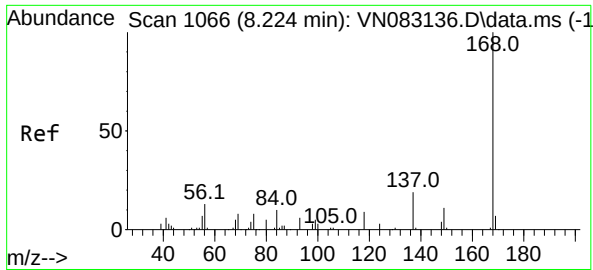
(#)=qualifier out of range (m)=manual integration (+)=signals summed						

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Manual Integrations APPROVED

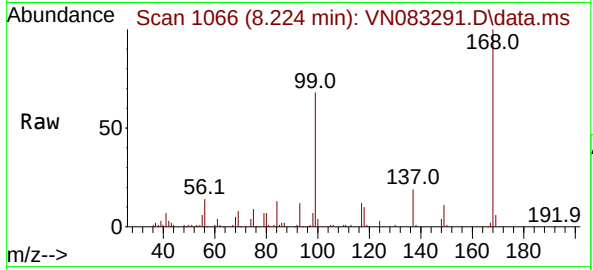
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

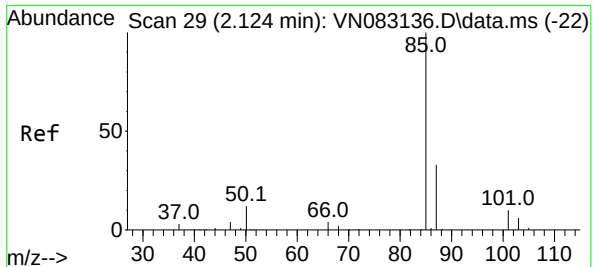
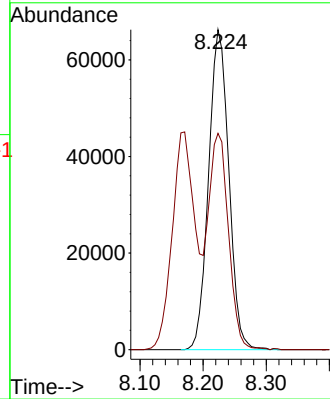
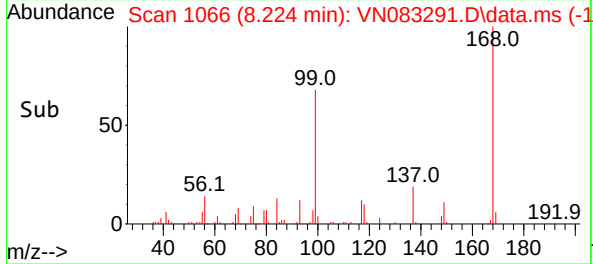
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



Tgt Ion:168 Resp: 147549
Ion Ratio Lower Upper
168 100
99 67.6 48.2 72.4

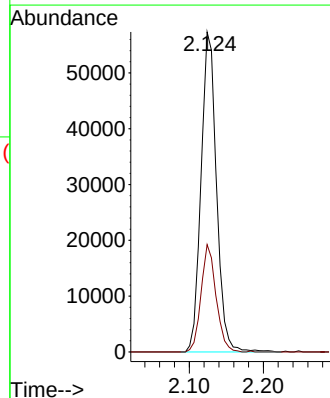
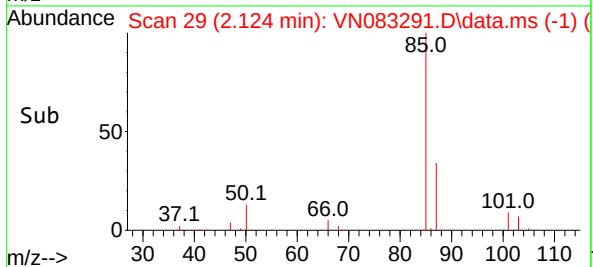
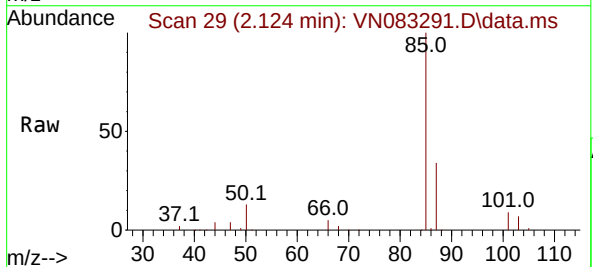
Manual Integrations
APPROVED

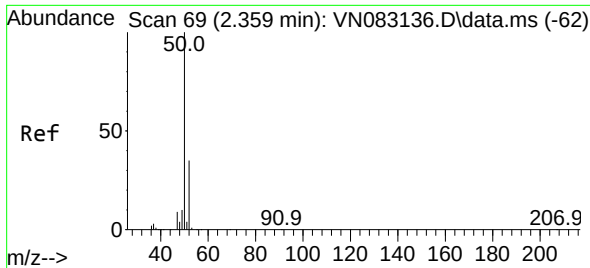
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#2
Dichlorodifluoromethane
Concen: 49.604 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

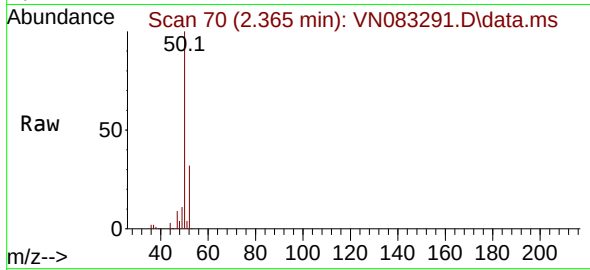
Tgt Ion: 85 Resp: 82997
Ion Ratio Lower Upper
85 100
87 33.5 15.7 47.0





#3
Chloromethane
Concen: 50.636 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

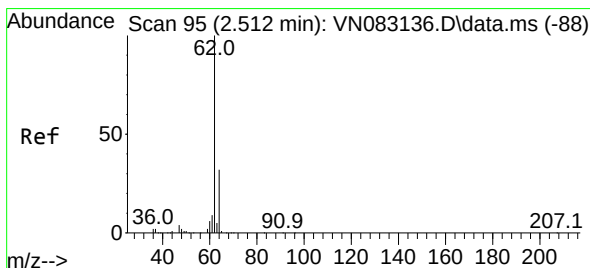
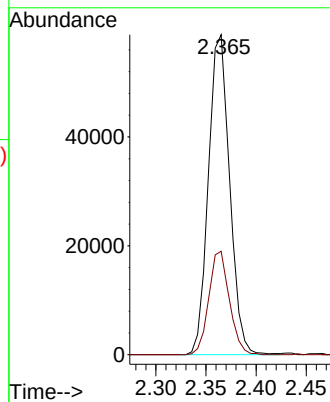
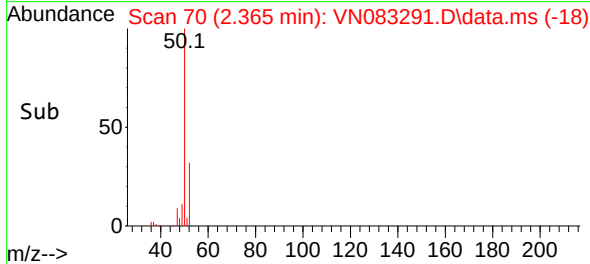
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



Tgt Ion: 50 Resp: 86740
Ion Ratio Lower Upper
50 100
52 32.3 25.0 37.4

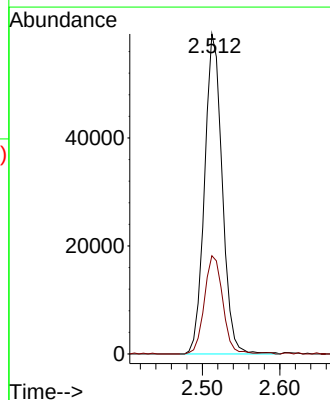
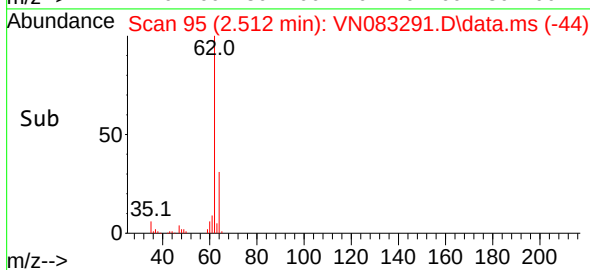
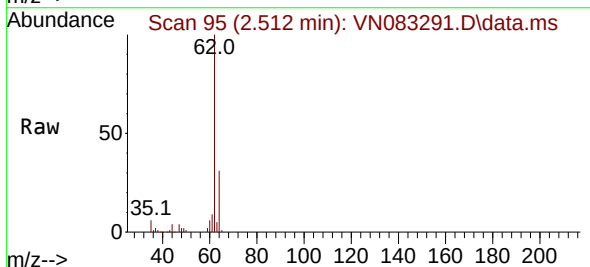
Manual Integrations
APPROVED

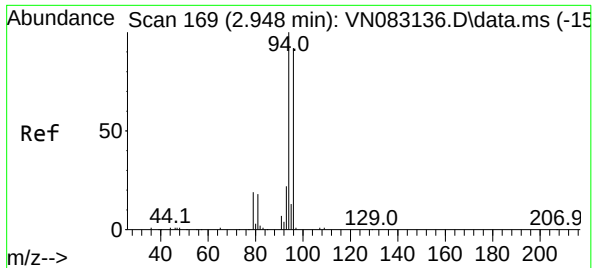
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#4
Vinyl Chloride
Concen: 53.714 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

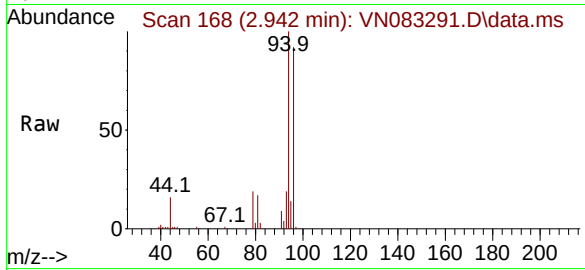
Tgt Ion: 62 Resp: 93887
Ion Ratio Lower Upper
62 100
64 30.7 25.0 37.6





#5
Bromomethane
Concen: 40.300 ug/l
RT: 2.942 min Scan# 168
Delta R.T. -0.006 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

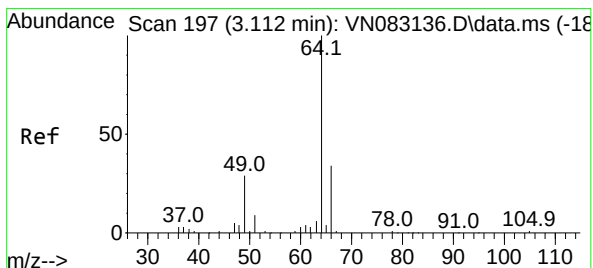
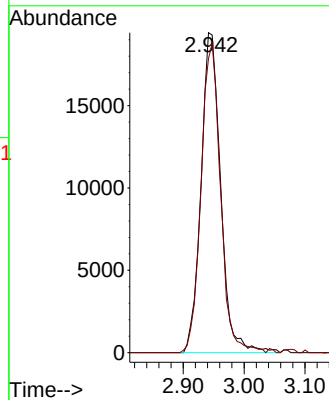
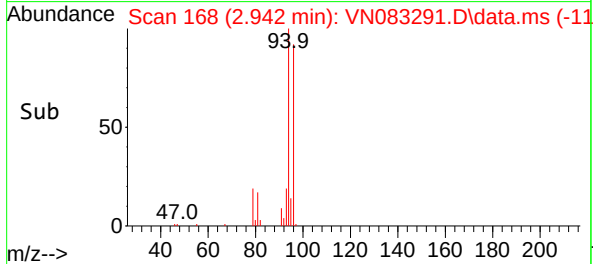
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



Tgt Ion: 94 Resp: 43709
Ion Ratio Lower Upper
94 100
96 91.9 78.0 117.0

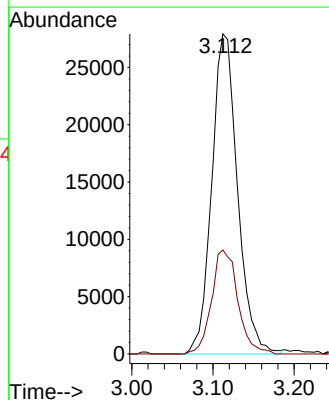
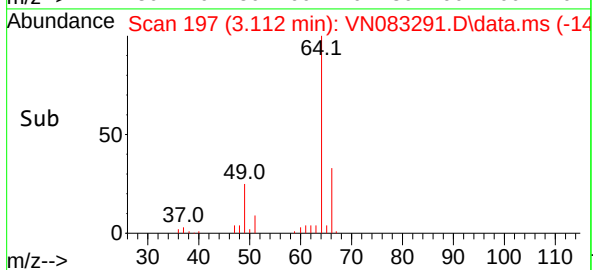
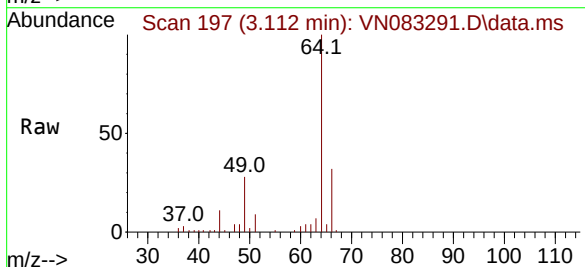
Manual Integrations
APPROVED

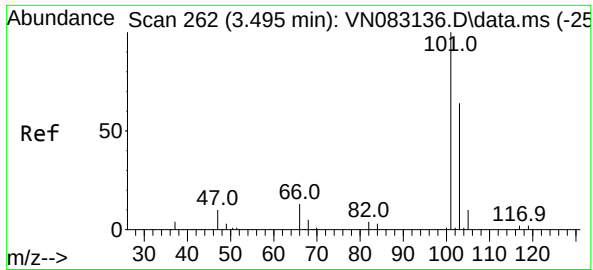
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#6
Chloroethane
Concen: 56.384 ug/l
RT: 3.112 min Scan# 197
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

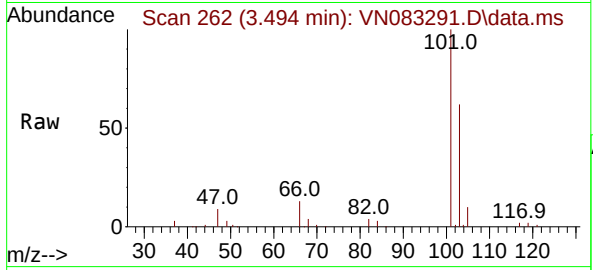
Tgt Ion: 64 Resp: 61659
Ion Ratio Lower Upper
64 100
66 32.5 26.6 40.0





#7
Trichlorofluoromethane
Concen: 55.909 ug/l
RT: 3.494 min Scan# 262
Delta R.T. -0.001 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

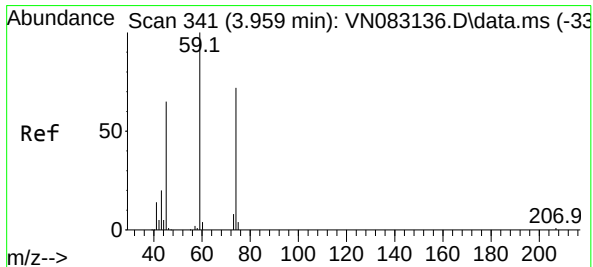
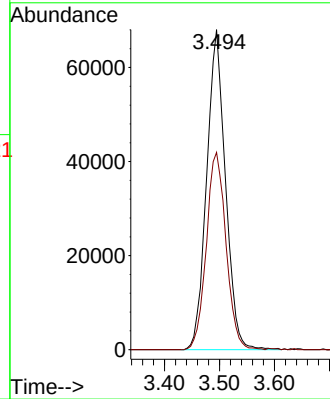
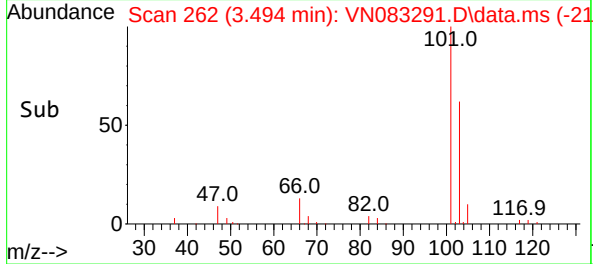
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



Tgt Ion:101 Resp: 161438
Ion Ratio Lower Upper
101 100
103 61.7 52.7 79.1

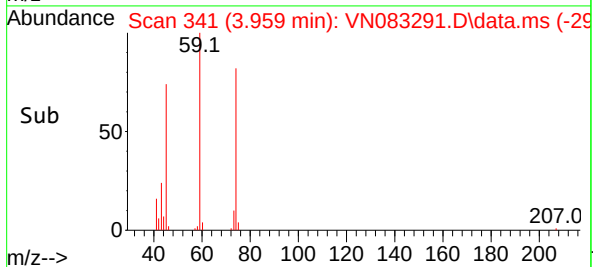
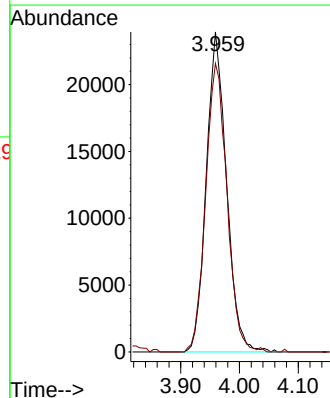
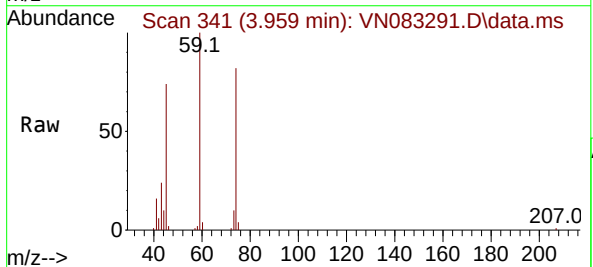
Manual Integrations
APPROVED

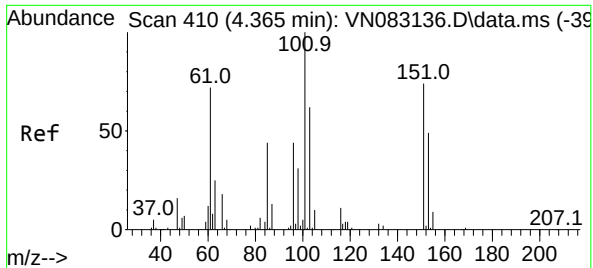
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#8
Diethyl Ether
Concen: 53.078 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 74 Resp: 57031
Ion Ratio Lower Upper
74 100
45 95.1 55.5 166.3





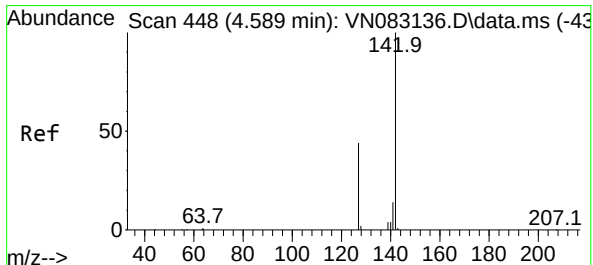
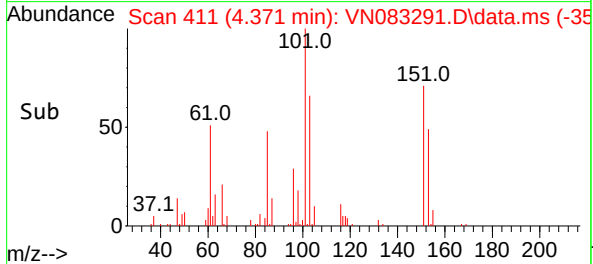
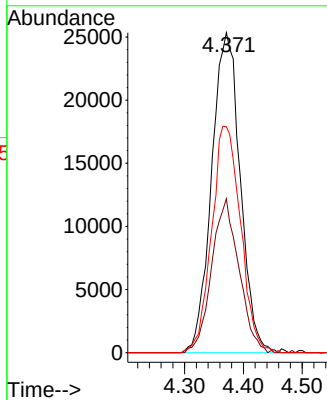
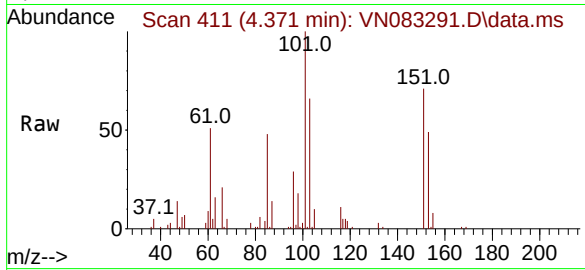
#9
1,1,2-Trichlorotrifluoroethane
Concen: 53.682 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.006 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS

Tgt Ion:101 Resp: 8546
Ion Ratio Lower Upper
101 100
85 46.0 38.3 57.5
151 71.8 59.3 88.9

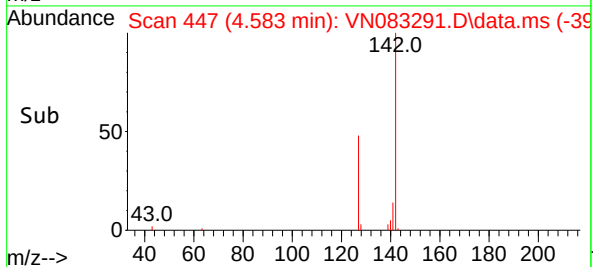
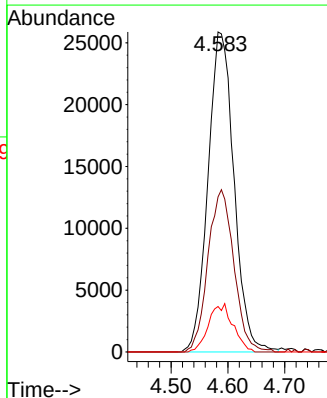
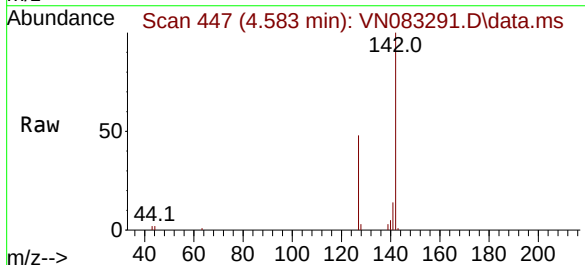
Manual Integrations
APPROVED

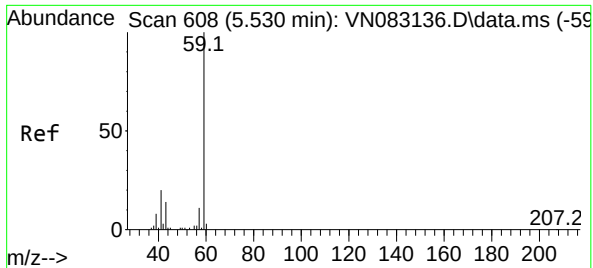
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#10
Methyl Iodide
Concen: 39.245 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.006 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion:142 Resp: 82185
Ion Ratio Lower Upper
142 100
127 48.5 37.5 56.3
141 14.2 13.1 19.7





#11

Tert butyl alcohol

Concen: 263.289 ug/l

RT: 5.524 min Scan# 608

Delta R.T. -0.006 min

Lab File: VN083291.D

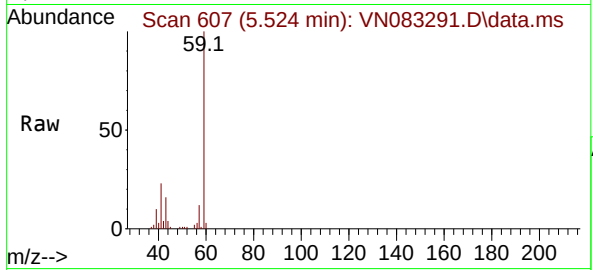
Acq: 14 Aug 2024 10:28

Instrument :

MSVOA_N

ClientSampleId :

924-K1-WP0-0.25-080224MS



Tgt Ion: 59 Resp: 114912

Ion Ratio Lower Upper

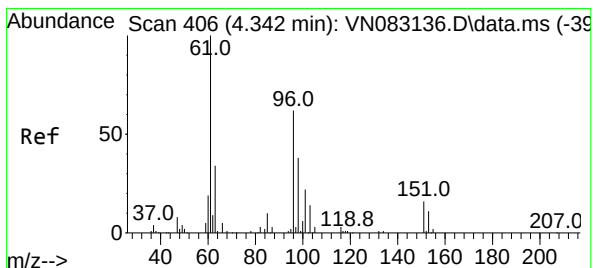
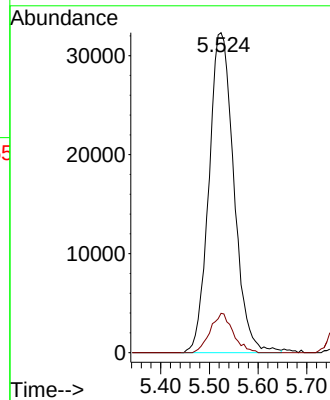
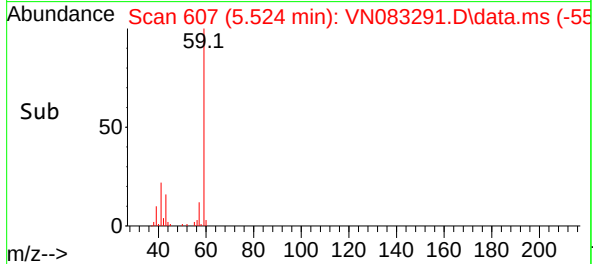
59 100

57 11.2 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#12

1,1-Dichloroethene

Concen: 52.011 ug/l

RT: 4.341 min Scan# 406

Delta R.T. -0.000 min

Lab File: VN083291.D

Acq: 14 Aug 2024 10:28

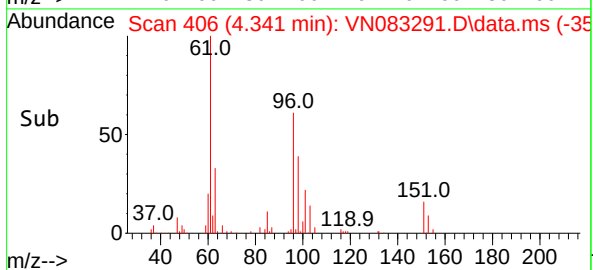
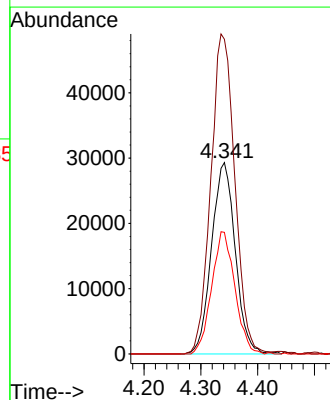
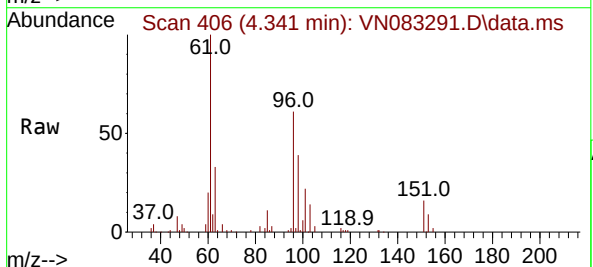
Tgt Ion: 96 Resp: 85068

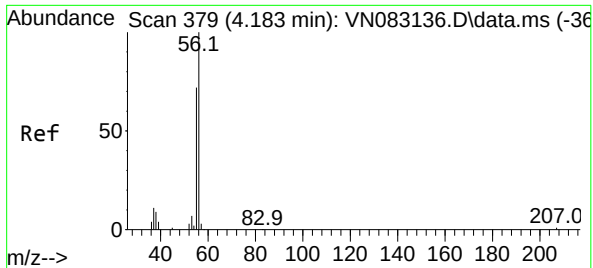
Ion Ratio Lower Upper

96 100

61 164.4 149.7 224.5

98 63.5 50.1 75.1





#13

Acrolein

Concen: 234.553 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.006 min

Lab File: VN083291.D

Acq: 14 Aug 2024 10:28

Instrument :

MSVOA_N

ClientSampleId :

924-K1-WP0-0.25-080224MS

Tgt Ion: 56 Resp: 66719

Ion Ratio Lower Upper

56 100

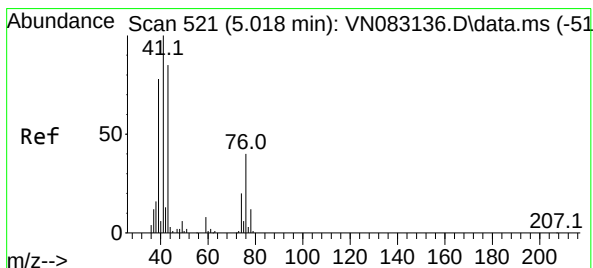
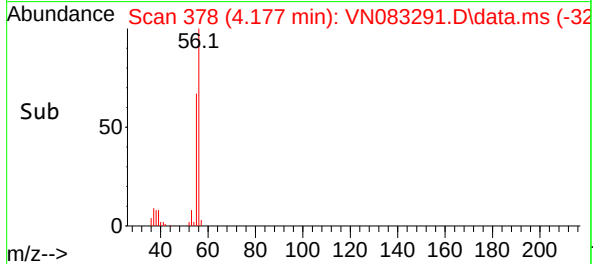
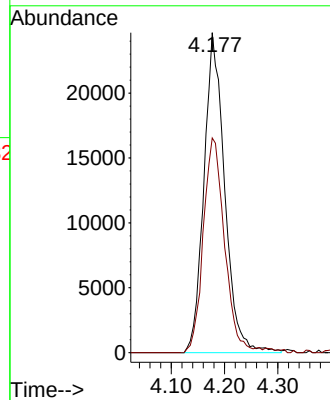
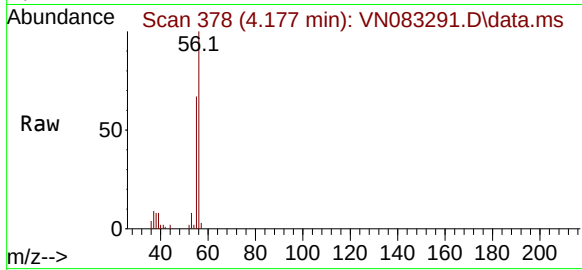
55 68.1 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024

Supervised By :Semsettin Yesilyurt 08/16/2024



#14

Allyl chloride

Concen: 42.486 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN083291.D

Acq: 14 Aug 2024 10:28

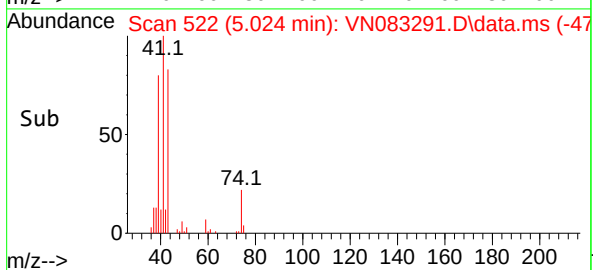
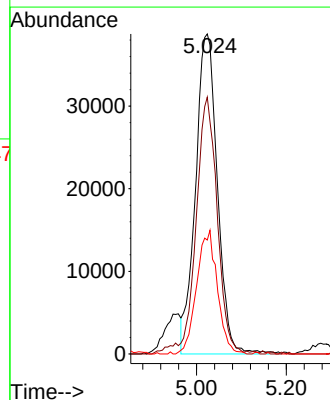
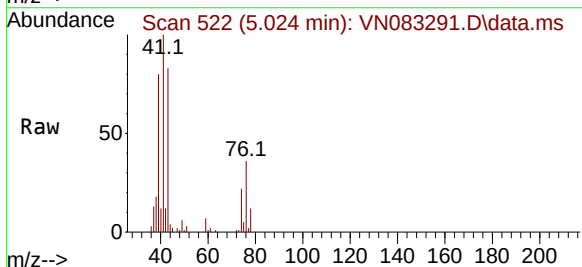
Tgt Ion: 41 Resp: 131317

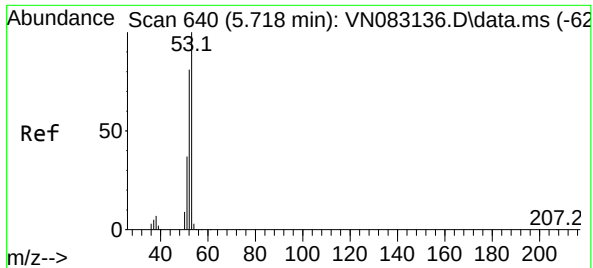
Ion Ratio Lower Upper

41 100

39 77.8 67.8 101.6

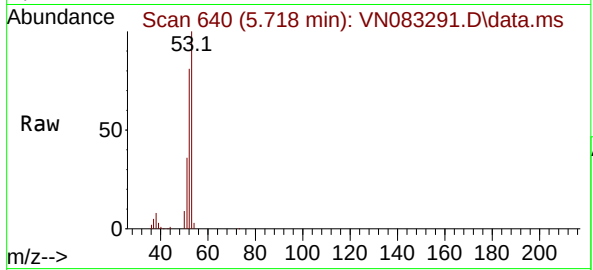
76 36.4 25.8 38.8





#15
Acrylonitrile
Concen: 269.261 ug/l
RT: 5.718 min Scan# 640
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

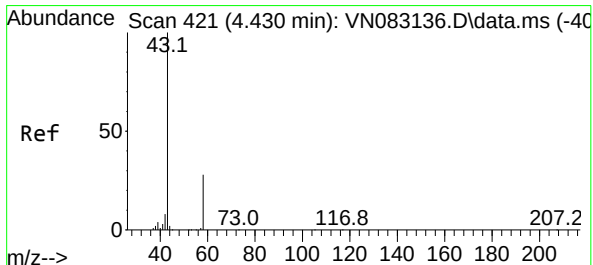
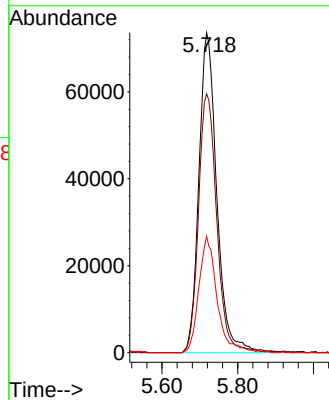
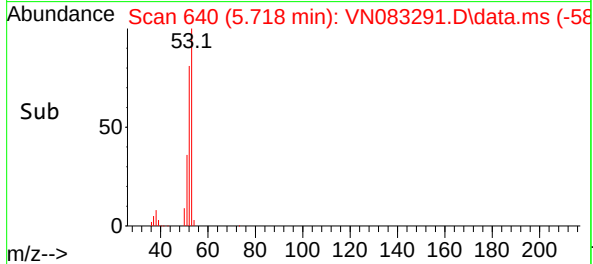
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



Tgt Ion: 53 Resp: 241693
Ion Ratio Lower Upper
53 100
52 82.3 66.6 100.0
51 37.0 30.1 45.1

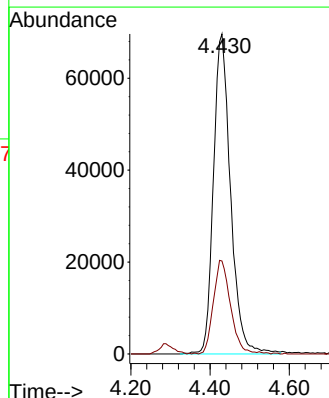
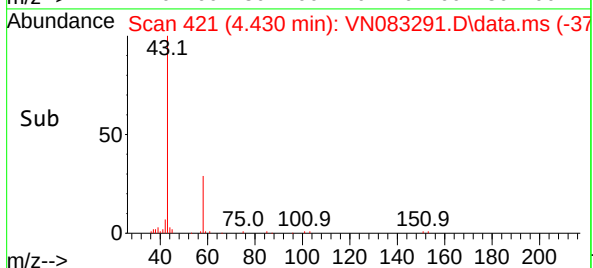
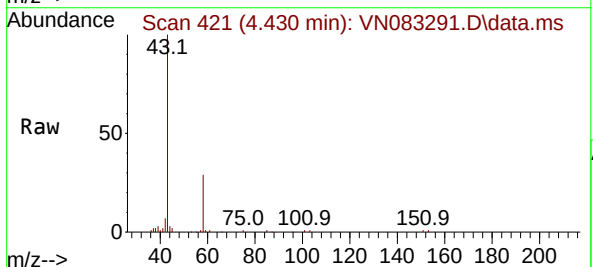
Manual Integrations
APPROVED

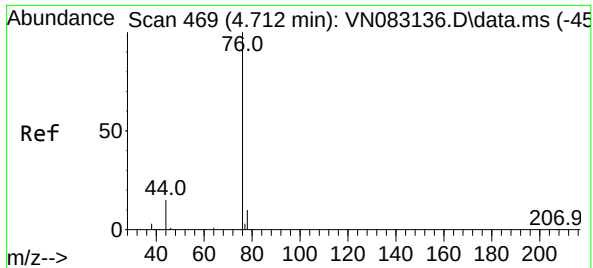
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#16
Acetone
Concen: 253.705 ug/l
RT: 4.430 min Scan# 421
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

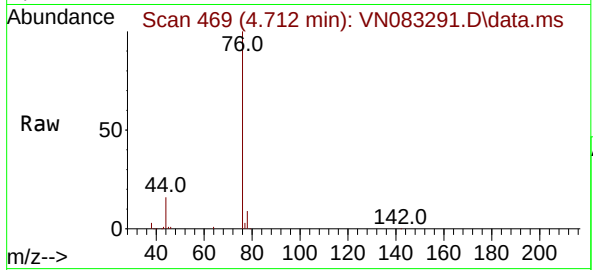
Tgt Ion: 43 Resp: 208489
Ion Ratio Lower Upper
43 100
58 29.0 21.8 32.6





#17
Carbon Disulfide
Concen: 43.968 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

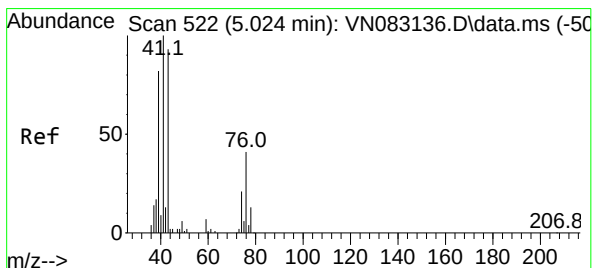
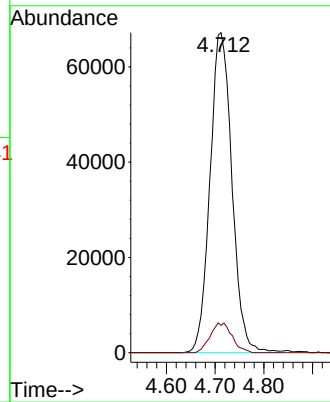
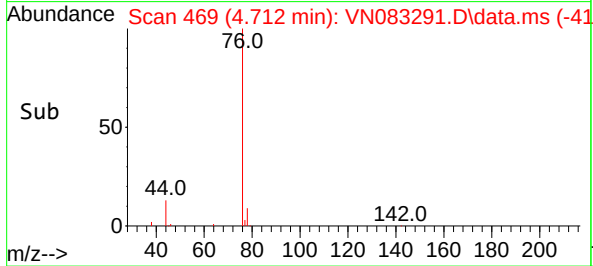
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



Tgt Ion: 76 Resp: 21041
Ion Ratio Lower Upper
76 100
78 8.6 7.2 10.8

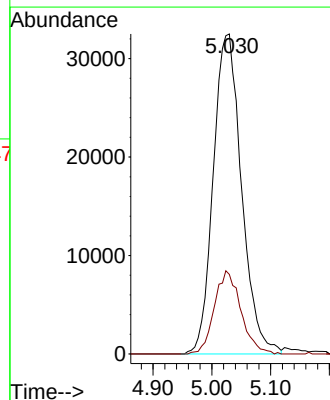
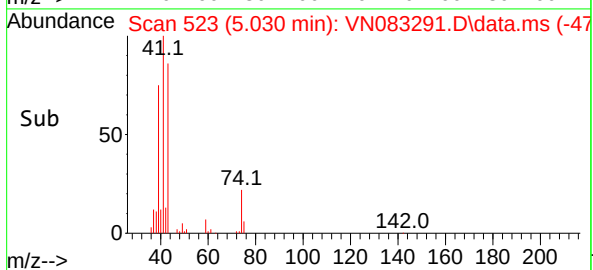
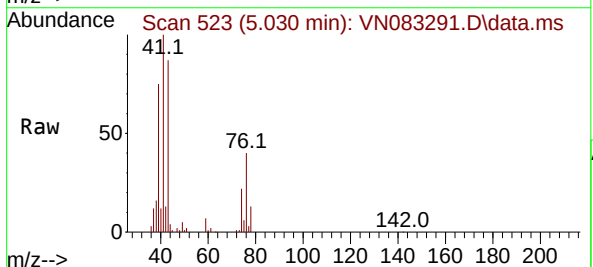
Manual Integrations
APPROVED

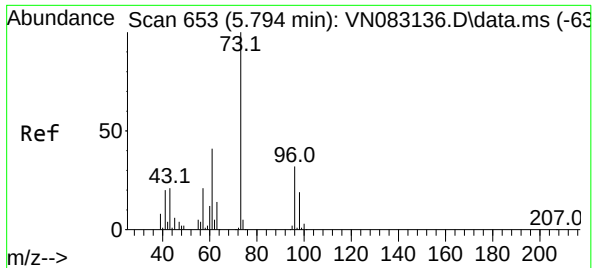
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#18
Methyl Acetate
Concen: 44.370 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.006 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

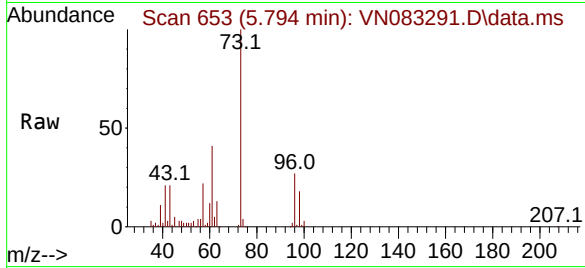
Tgt Ion: 43 Resp: 108637
Ion Ratio Lower Upper
43 100
74 24.3 16.3 24.5





#19
Methyl tert-butyl Ether
Concen: 55.073 ug/l
RT: 5.794 min Scan# 653
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

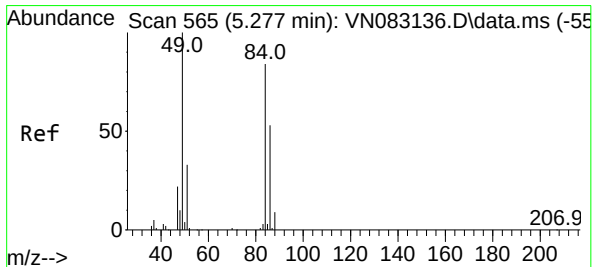
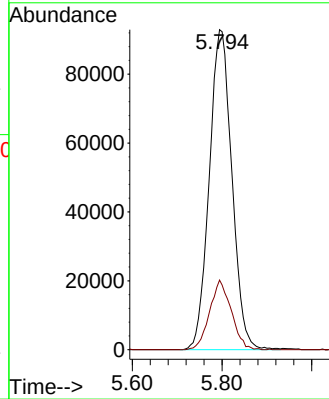
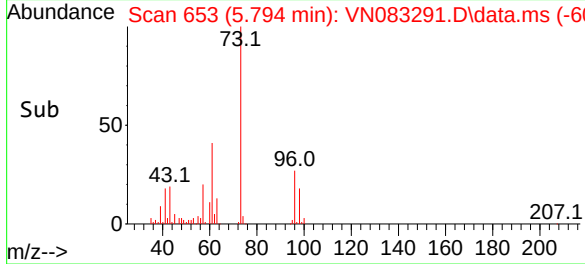
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



Tgt Ion: 73 Resp: 32512
Ion Ratio Lower Upper
73 100
57 21.8 17.9 26.9

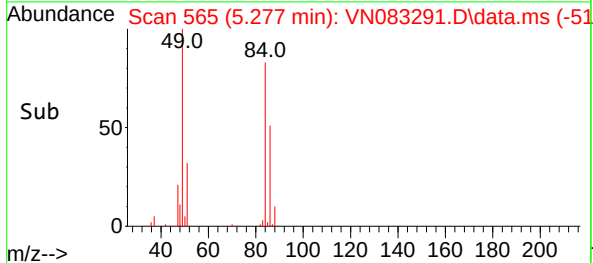
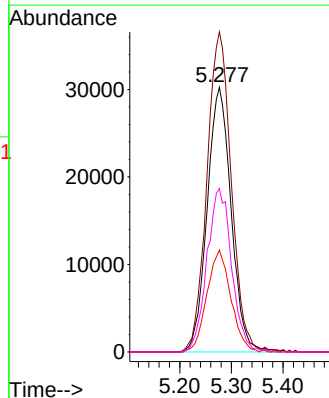
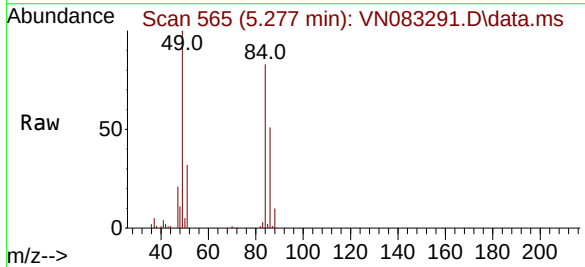
Manual Integrations
APPROVED

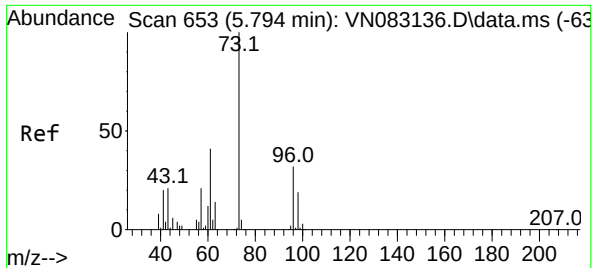
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#20
Methylene Chloride
Concen: 51.543 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

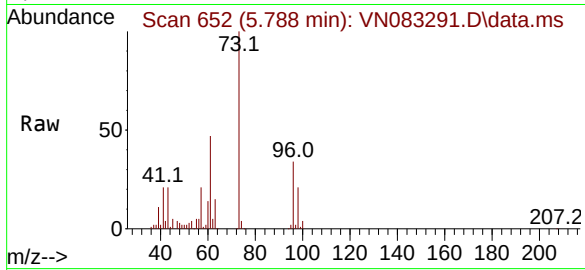
Tgt Ion: 84 Resp: 97482
Ion Ratio Lower Upper
84 100
49 120.9 119.6 179.4
51 38.5 34.8 52.2
86 61.7 52.9 79.3





#21
trans-1,2-Dichloroethene
Concen: 51.683 ug/l
RT: 5.788 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

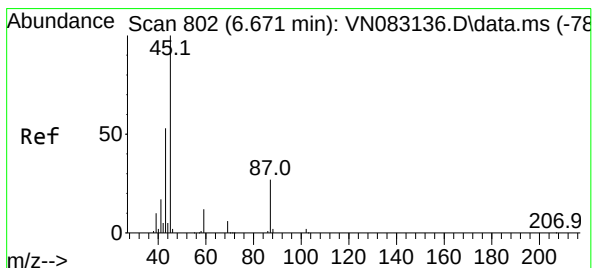
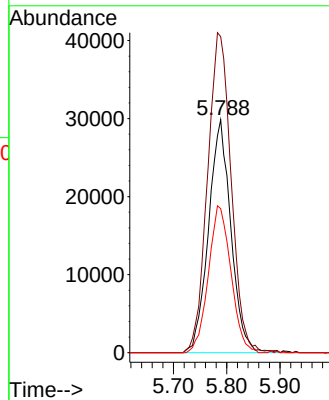
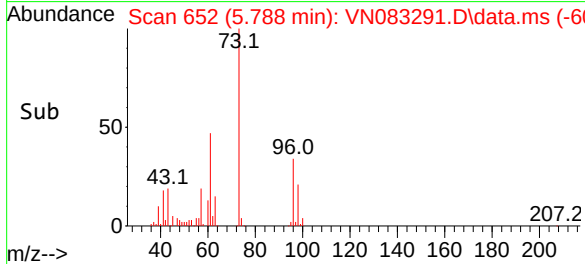
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



Tgt Ion: 96 Resp: 8736
Ion Ratio Lower Upper
96 100
61 135.6 123.4 185.2
98 61.8 49.3 73.9

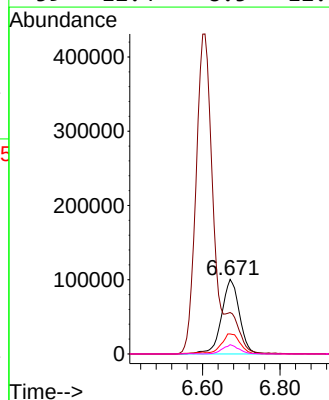
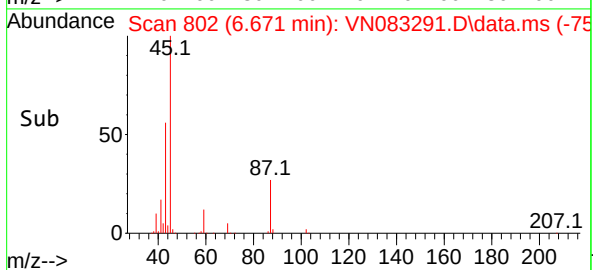
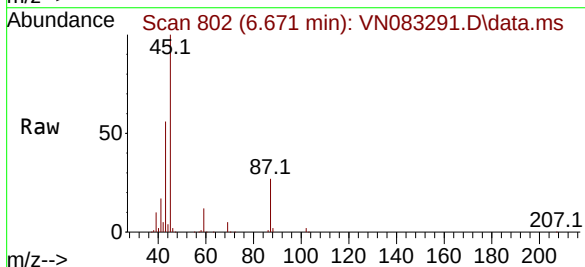
Manual Integrations
APPROVED

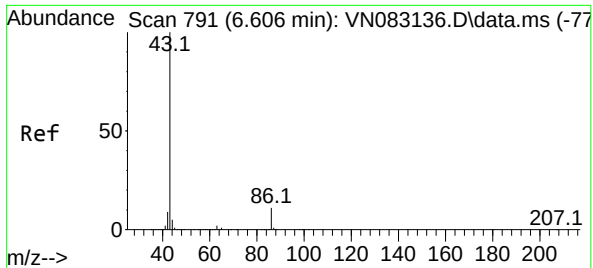
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#22
Diisopropyl ether
Concen: 55.402 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

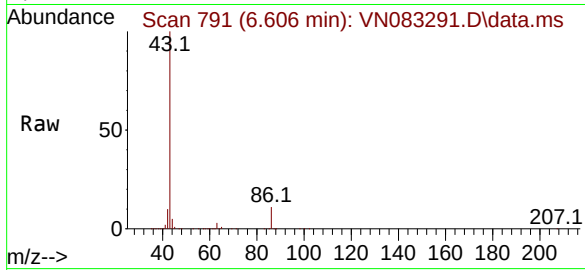
Tgt Ion: 45 Resp: 321877
Ion Ratio Lower Upper
45 100
43 54.8 44.0 66.0
87 26.8 19.7 29.5
59 12.4 8.5 12.7





#23
Vinyl Acetate
Concen: 214.822 ug/l
RT: 6.606 min Scan# 791
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

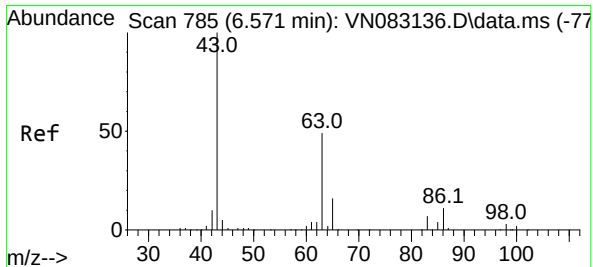
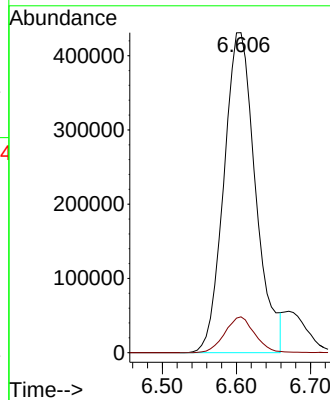
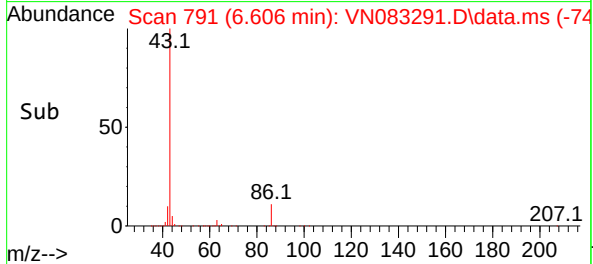
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



Tgt Ion: 43 Resp: 127926
Ion Ratio Lower Upper
43 100
86 11.2 7.3 10.9

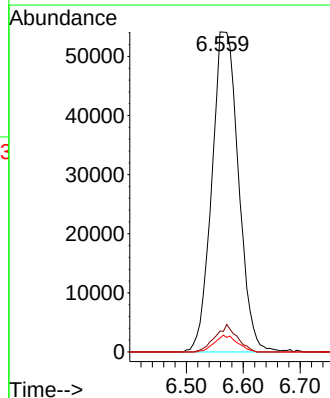
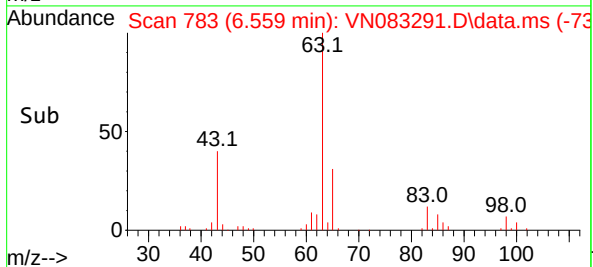
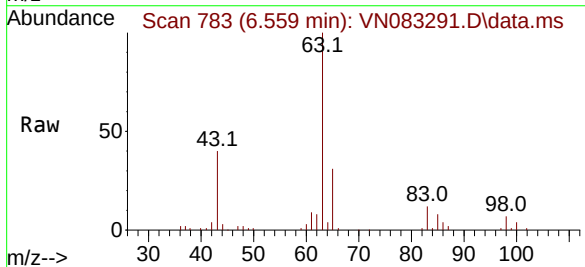
Manual Integrations
APPROVED

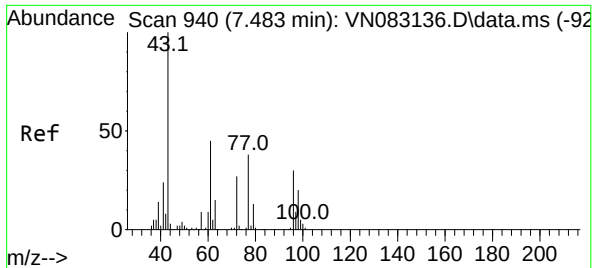
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#24
1,1-Dichloroethane
Concen: 55.860 ug/l
RT: 6.559 min Scan# 783
Delta R.T. -0.012 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

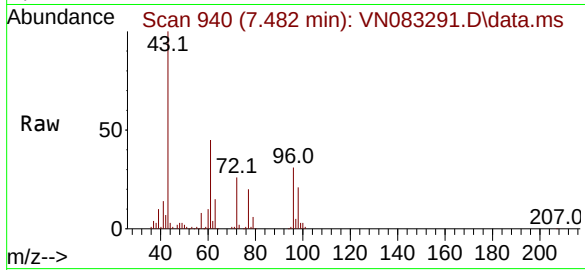
Tgt Ion: 63 Resp: 176895
Ion Ratio Lower Upper
63 100
98 6.6 3.3 9.9
100 4.3 2.0 6.0





#25
2-Butanone
Concen: 256.535 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

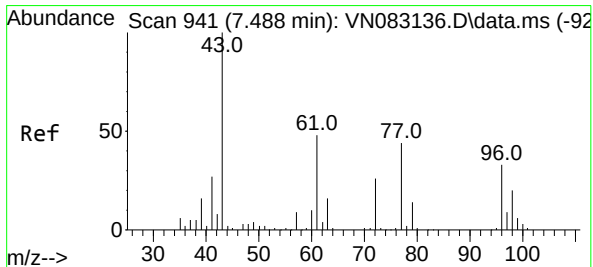
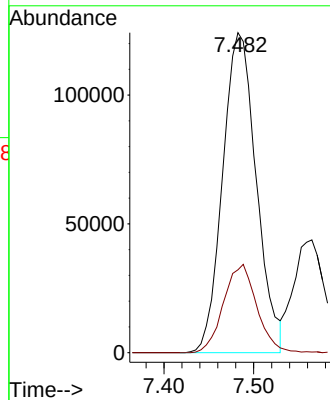
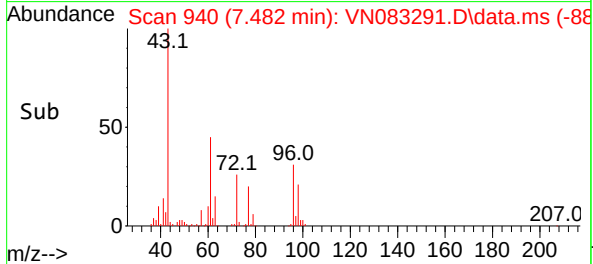
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



Tgt Ion: 43 Resp: 32369
Ion Ratio Lower Upper
43 100
72 25.9 18.2 27.2

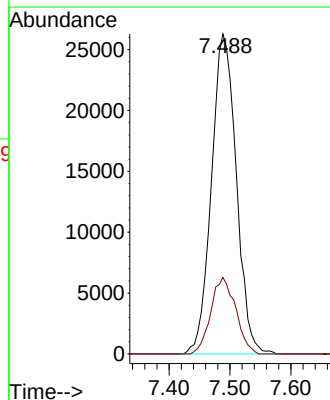
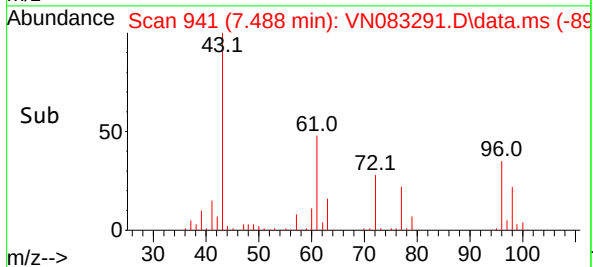
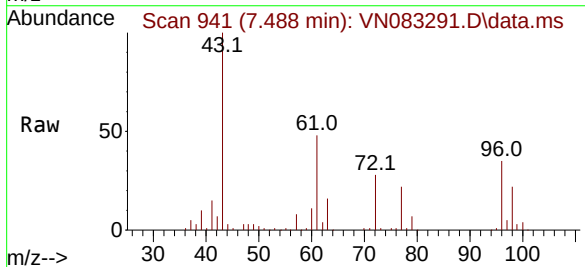
Manual Integrations
APPROVED

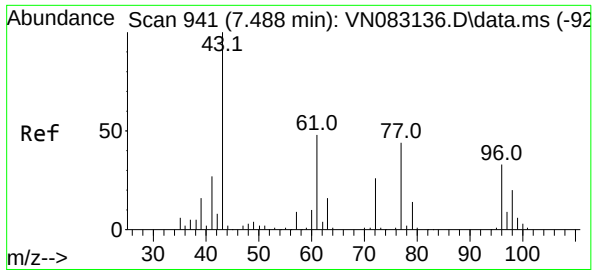
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#26
2,2-Dichloropropane
Concen: 25.331 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

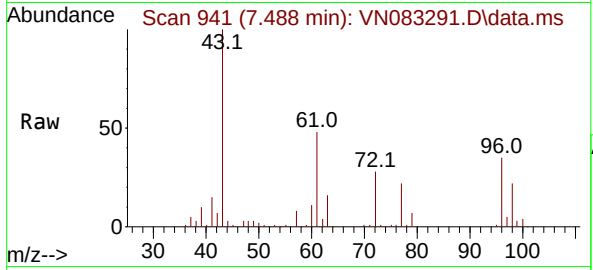
Tgt Ion: 77 Resp: 74497
Ion Ratio Lower Upper
77 100
97 23.9 10.3 30.9





#27
 cis-1,2-Dichloroethene
 Concen: 53.030 ug/l
 RT: 7.488 min Scan# 941
 Delta R.T. -0.000 min
 Lab File: VN083291.D
 Acq: 14 Aug 2024 10:28

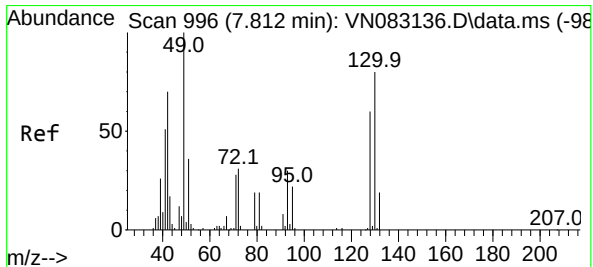
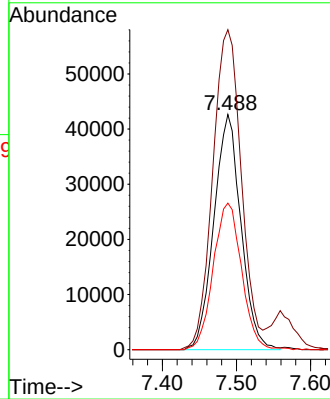
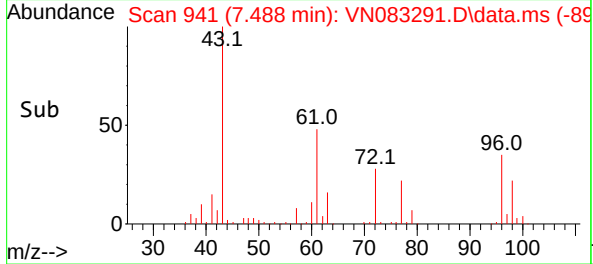
Instrument :
 MSVOA_N
 ClientSampleId :
 924-K1-WP0-0.25-080224MS



Tgt Ion: 96 Resp: 108174
 Ion Ratio Lower Upper
 96 100
 61 143.6 0.0 329.6
 98 65.3 0.0 128.6

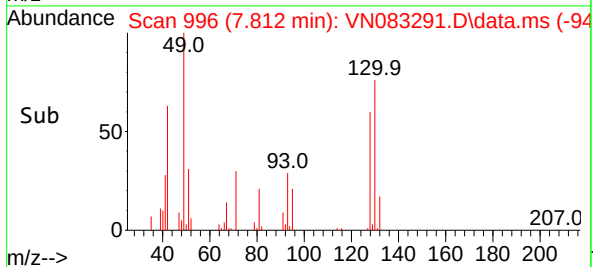
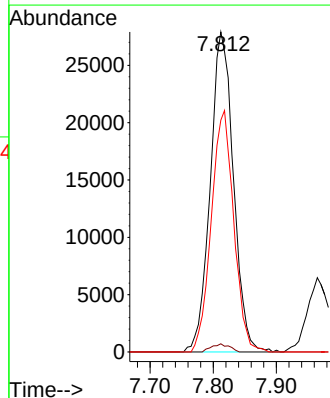
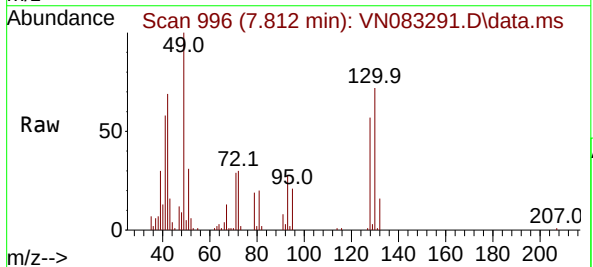
Manual Integrations
 APPROVED

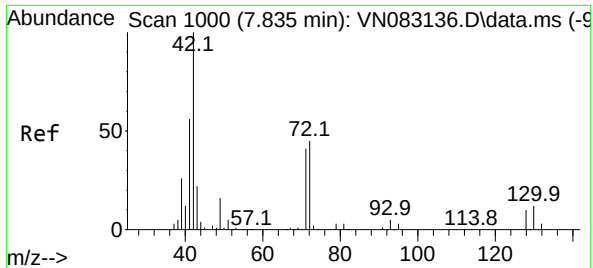
Reviewed By :Mahesh Dadoda 08/16/2024
 Supervised By :Semsettin Yesilyurt 08/16/2024



#28
 Bromochloromethane
 Concen: 54.989 ug/l
 RT: 7.812 min Scan# 996
 Delta R.T. -0.000 min
 Lab File: VN083291.D
 Acq: 14 Aug 2024 10:28

Tgt Ion: 49 Resp: 71165
 Ion Ratio Lower Upper
 49 100
 129 2.0 0.0 3.8
 130 73.2 50.5 75.7





#29

Tetrahydrofuran

Concen: 273.745 ug/l

RT: 7.841 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN083291.D

Acq: 14 Aug 2024 10:28

Instrument :

MSVOA_N

ClientSampleId :

924-K1-WP0-0.25-080224MS

Tgt Ion: 42 Resp: 22328

Ion Ratio Lower Upper

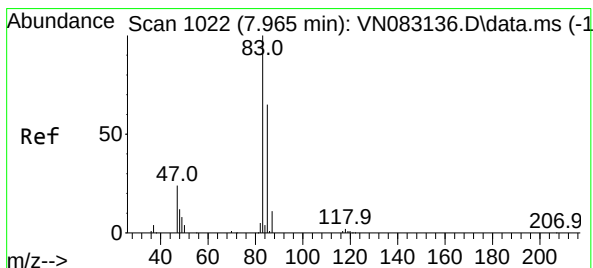
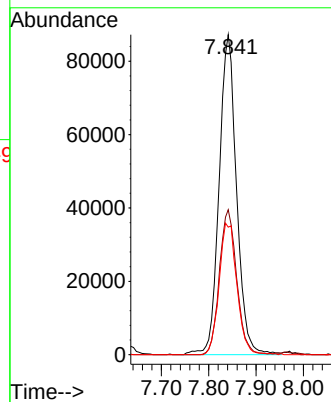
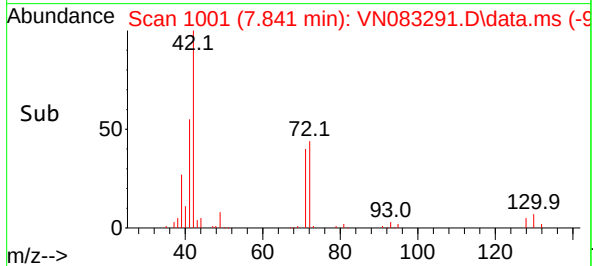
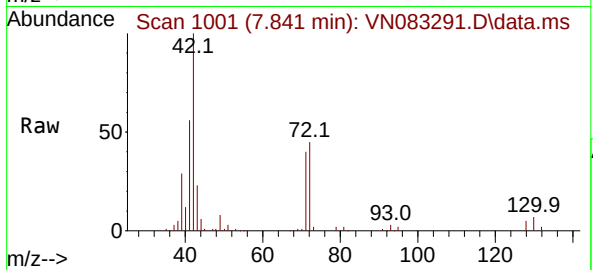
42 100

72 44.9 30.0 45.0

71 41.9 28.3 42.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

#30

Chloroform

Concen: 57.412 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. -0.000 min

Lab File: VN083291.D

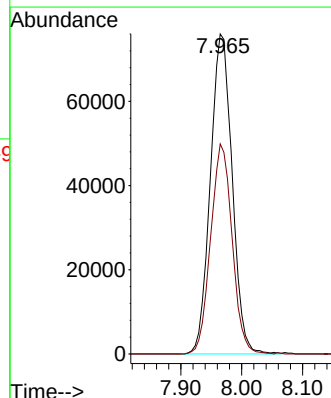
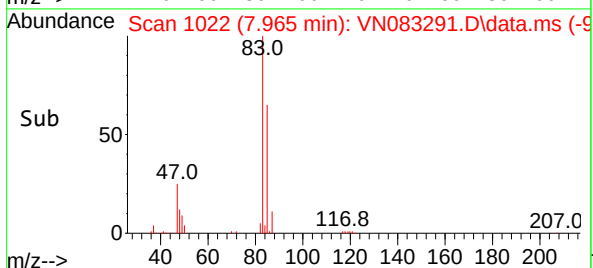
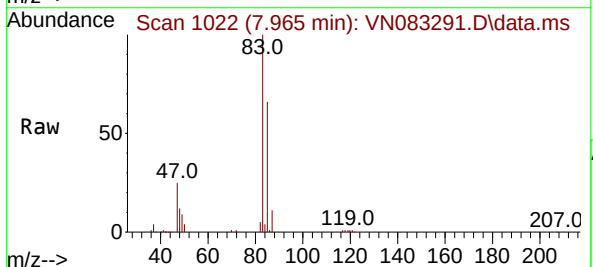
Acq: 14 Aug 2024 10:28

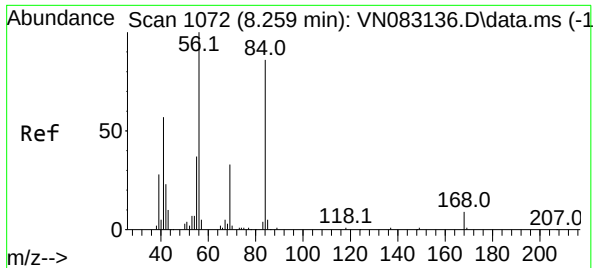
Tgt Ion: 83 Resp: 188887

Ion Ratio Lower Upper

83 100

85 65.6 50.9 76.3





#31

Cyclohexane

Concen: 46.930 ug/l

RT: 8.259 min Scan# 1072

Delta R.T. -0.000 min

Lab File: VN083291.D

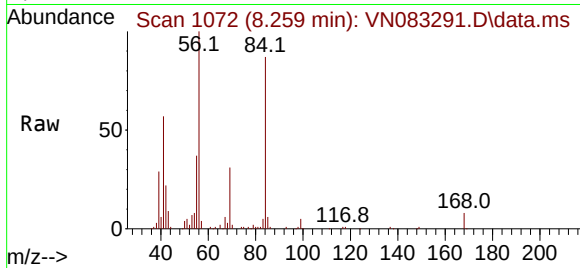
Acq: 14 Aug 2024 10:28

Instrument :

MSVOA_N

ClientSampleId :

924-K1-WP0-0.25-080224MS



Tgt Ion: 56 Resp: 146060

Ion Ratio Lower Upper

56 100

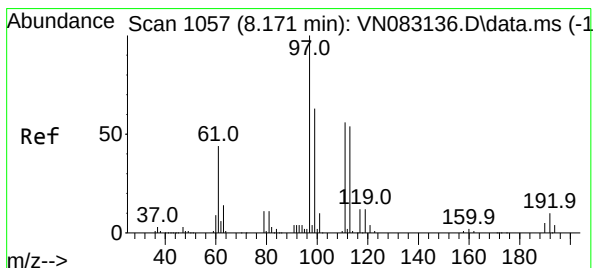
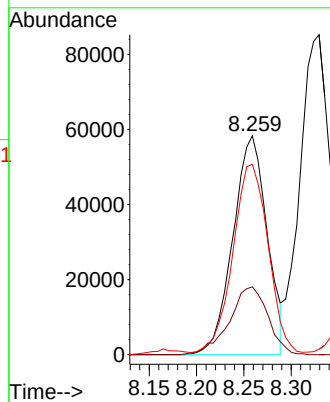
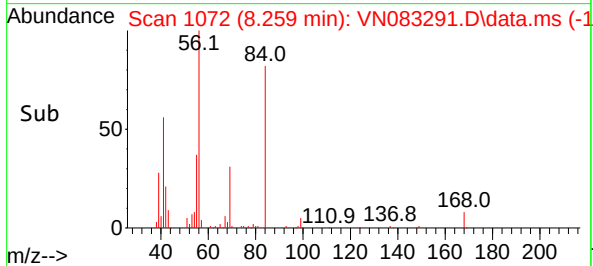
69 31.0 24.5 36.7

84 85.4 66.0 99.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#32

1,1,1-Trichloroethane

Concen: 55.438 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN083291.D

Acq: 14 Aug 2024 10:28

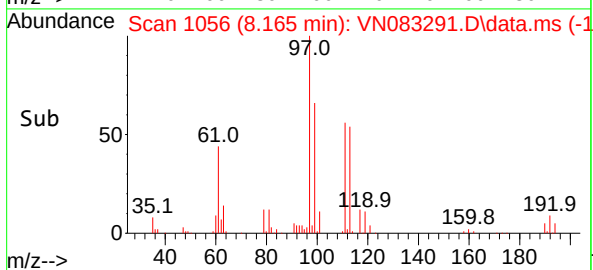
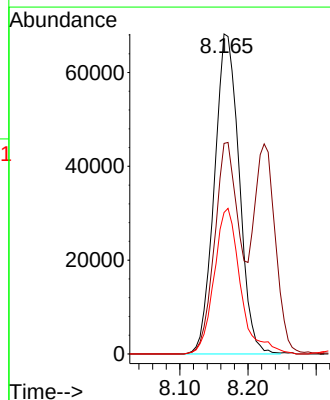
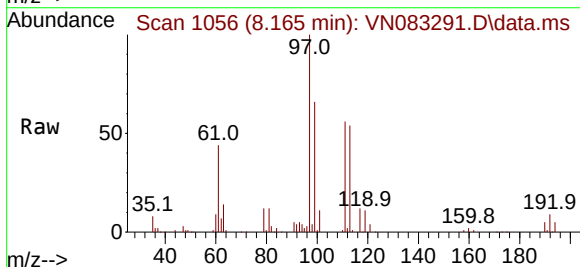
Tgt Ion: 97 Resp: 172642

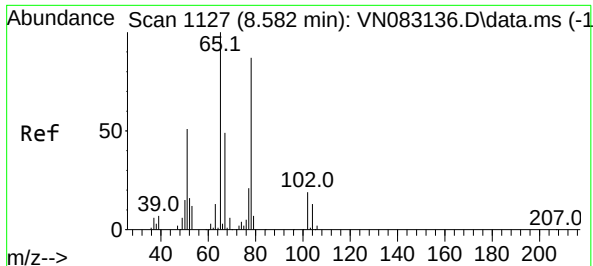
Ion Ratio Lower Upper

97 100

99 67.3 52.0 78.0

61 48.3 42.1 63.1





#33

1,2-Dichloroethane-d4

Concen: 58.267 ug/l

RT: 8.576 min Scan# 1127

Delta R.T. -0.006 min

Lab File: VN083291.D

Acq: 14 Aug 2024 10:28

Instrument :

MSVOA_N

ClientSampleId :

924-K1-WP0-0.25-080224MS

Tgt Ion: 65 Resp: 122369

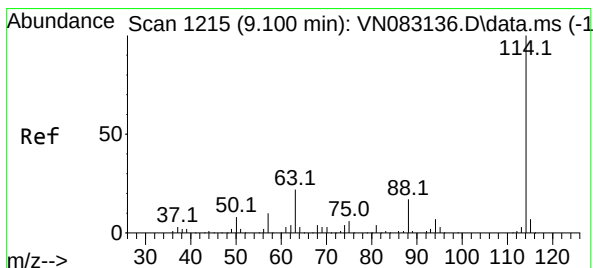
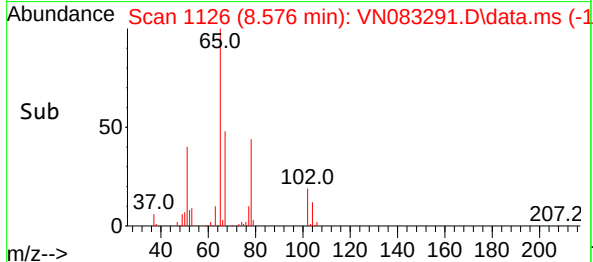
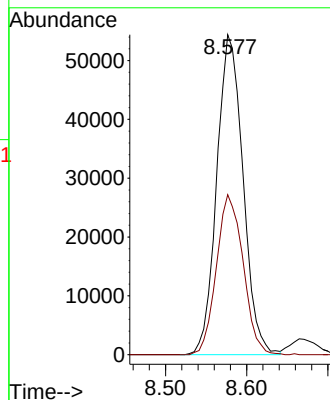
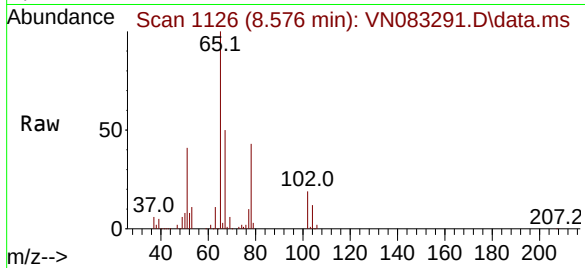
Ion Ratio Lower Upper

65 100

67 50.8 0.0 104.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN083291.D

Acq: 14 Aug 2024 10:28

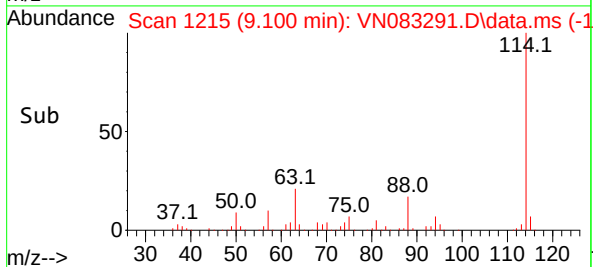
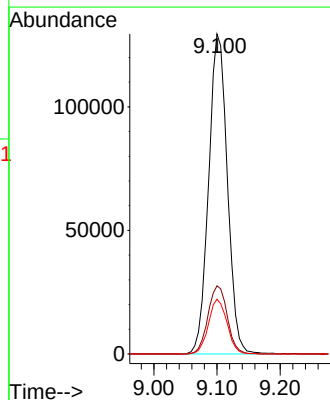
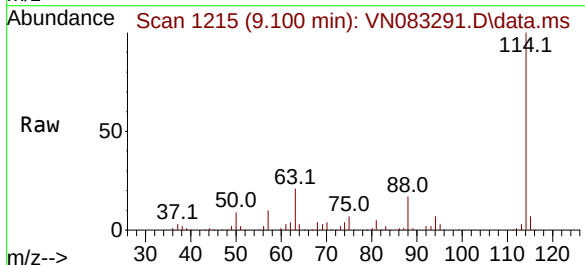
Tgt Ion:114 Resp: 267105

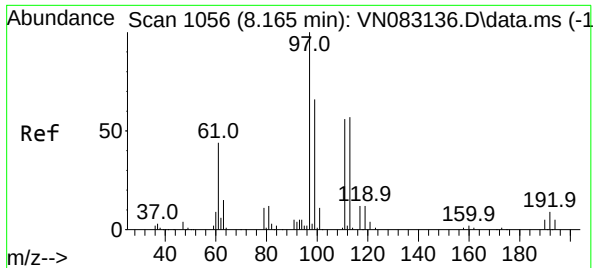
Ion Ratio Lower Upper

114 100

63 21.3 0.0 44.6

88 17.1 0.0 31.4





#35

Dibromofluoromethane

Concen: 54.534 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN083291.D

Acq: 14 Aug 2024 10:28

Instrument :

MSVOA_N

ClientSampleId :

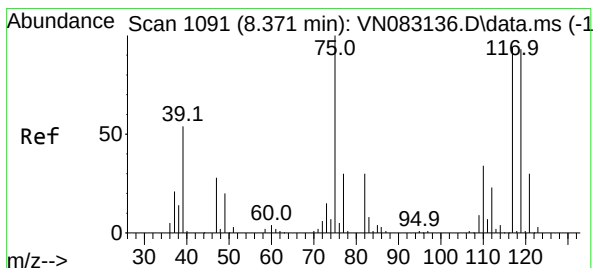
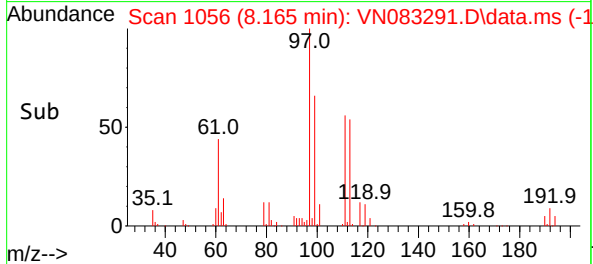
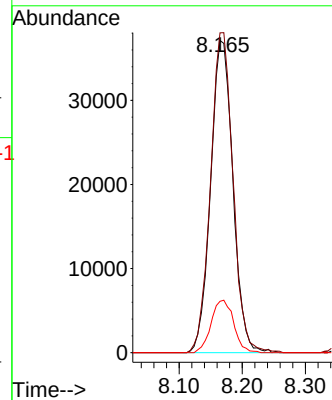
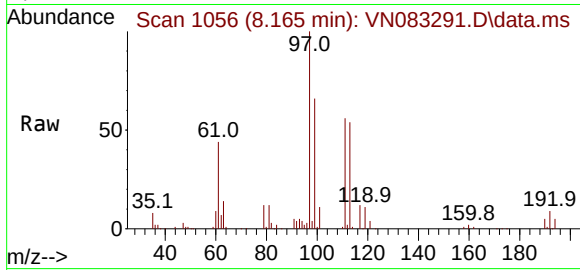
924-K1-WP0-0.25-080224MS

Tgt Ion:	113	Resp:	90920
Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.4	123.6
192	17.0	14.9	22.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#36

1,1-Dichloropropene

Concen: 50.786 ug/l

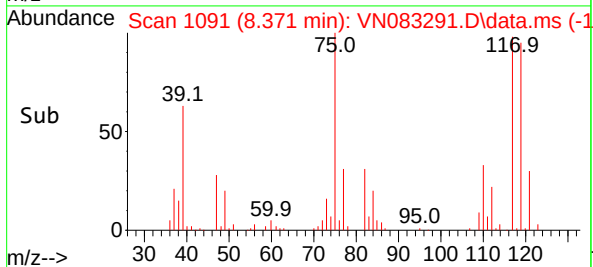
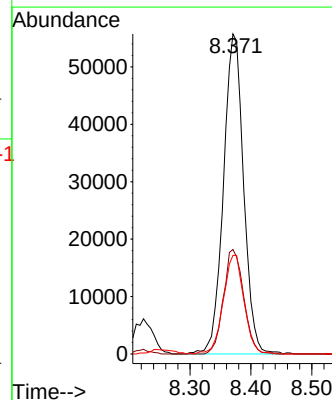
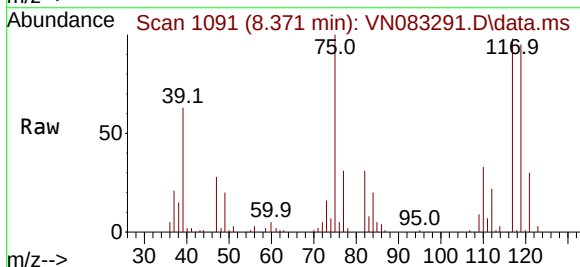
RT: 8.371 min Scan# 1091

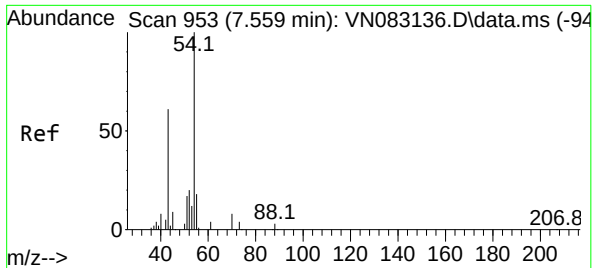
Delta R.T. -0.000 min

Lab File: VN083291.D

Acq: 14 Aug 2024 10:28

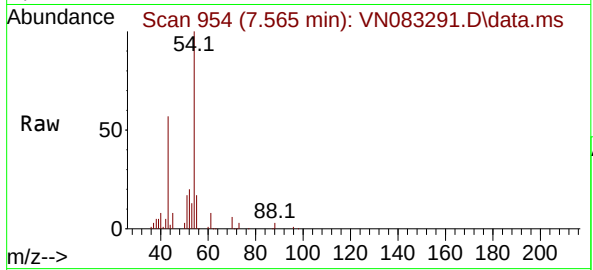
Tgt Ion:	75	Resp:	128085
Ion	Ratio	Lower	Upper
75	100		
110	32.7	16.3	48.9
77	31.7	24.6	37.0





#37
Ethyl Acetate
Concen: 39.628 ug/l
RT: 7.565 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

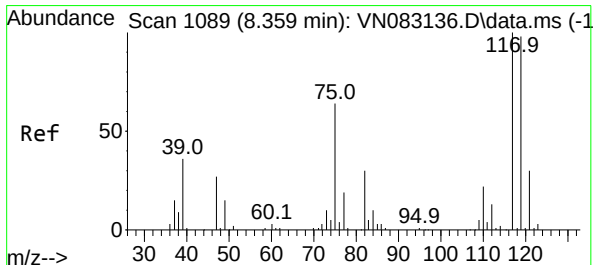
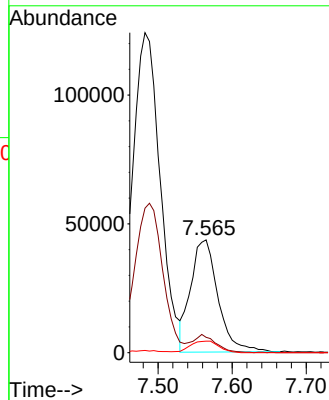
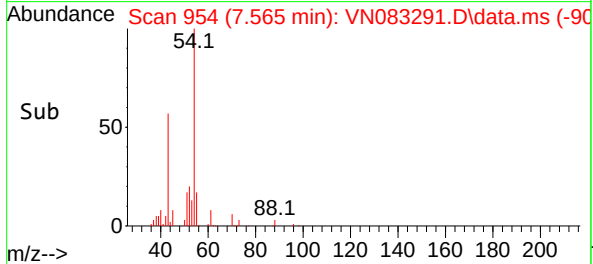
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



Tgt Ion: 43 Resp: 11190
Ion Ratio Lower Upper
43 100
61 13.9 9.3 13.9
70 10.9 7.0 10.6

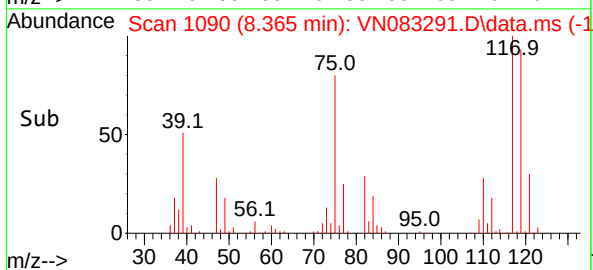
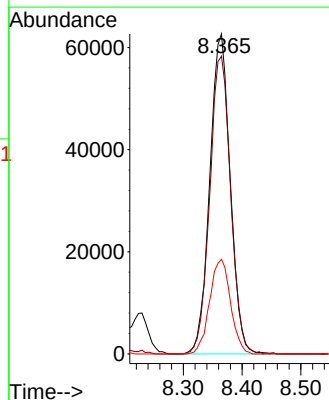
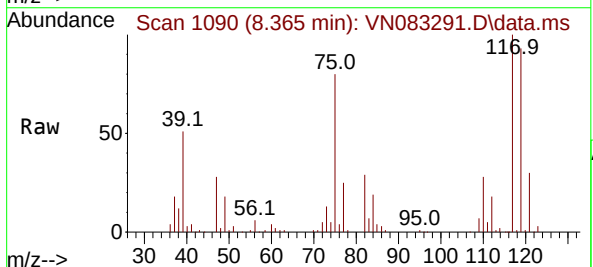
Manual Integrations
APPROVED

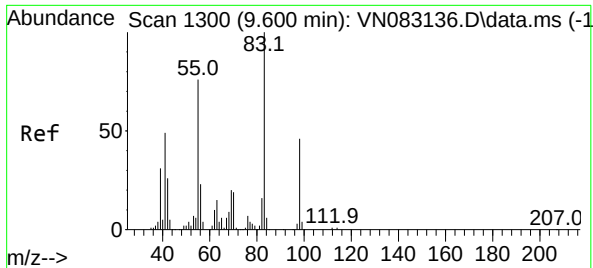
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#38
Carbon Tetrachloride
Concen: 53.316 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.006 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion:117 Resp: 151450
Ion Ratio Lower Upper
117 100
119 93.1 74.9 112.3
121 29.6 24.3 36.5





#39

Methylcyclohexane

Concen: 46.518 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN083291.D

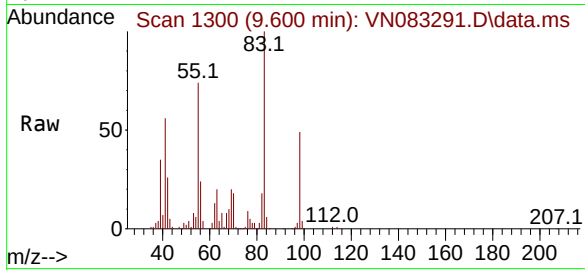
Acq: 14 Aug 2024 10:28

Instrument :

MSVOA_N

ClientSampleId :

924-K1-WP0-0.25-080224MS



Tgt Ion: 83 Resp: 144098

Ion Ratio Lower Upper

83 100

55 74.1 66.4 99.6

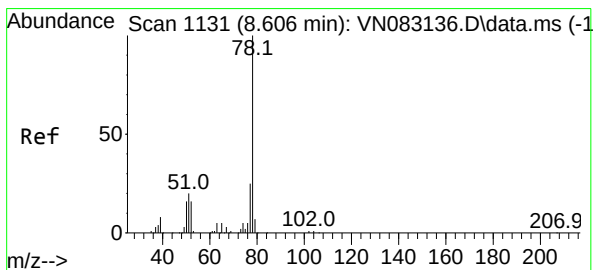
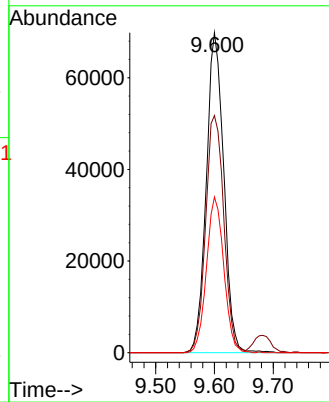
98 48.7 40.7 61.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024

Supervised By :Semsettin Yesilyurt 08/16/2024



#40

Benzene

Concen: 52.663 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VN083291.D

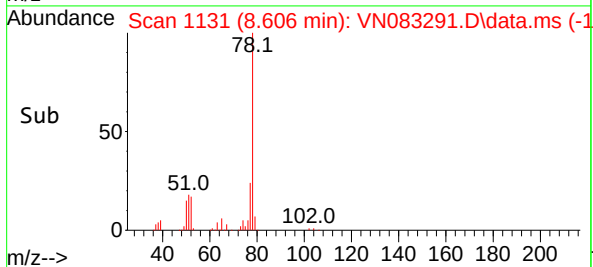
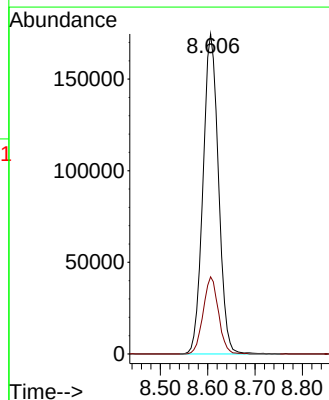
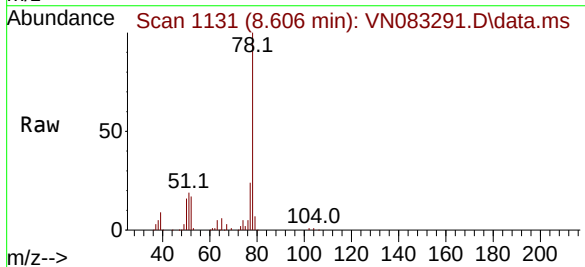
Acq: 14 Aug 2024 10:28

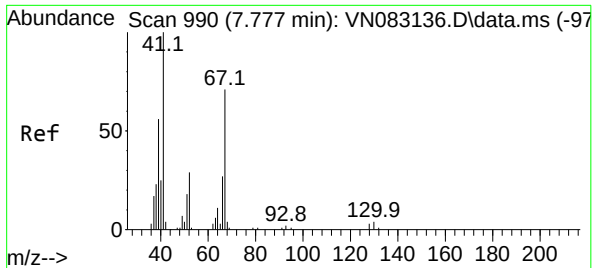
Tgt Ion: 78 Resp: 395669

Ion Ratio Lower Upper

78 100

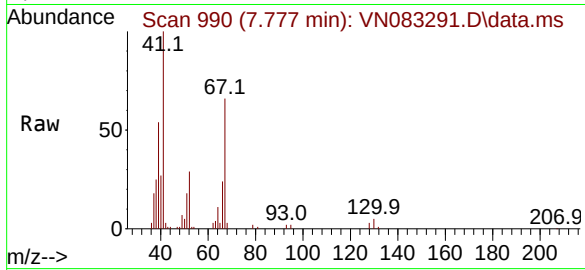
77 24.1 19.0 28.4





#41
Methacrylonitrile
Concen: 48.232 ug/l
RT: 7.777 min Scan# 990
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

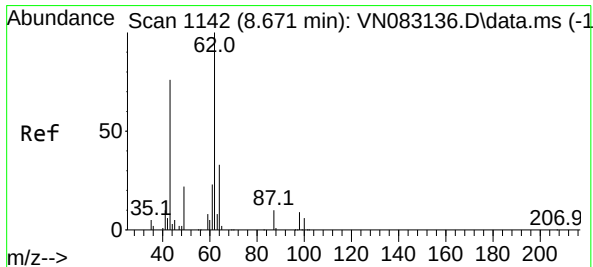
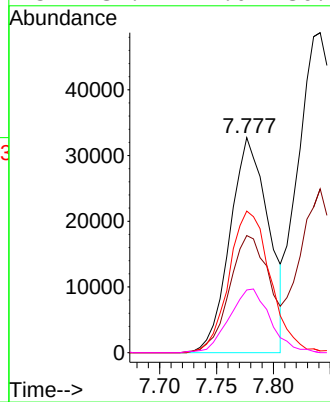
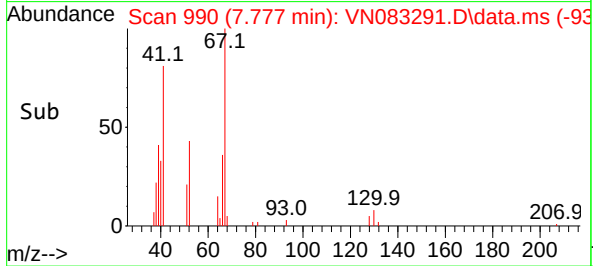
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



Tgt Ion: 41 Resp: 7744
Ion Ratio Lower Upper
41 100
39 56.5 45.5 68.3
67 70.9 50.5 75.7
52 31.4 24.0 36.0

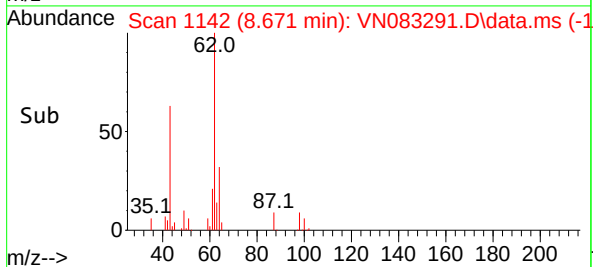
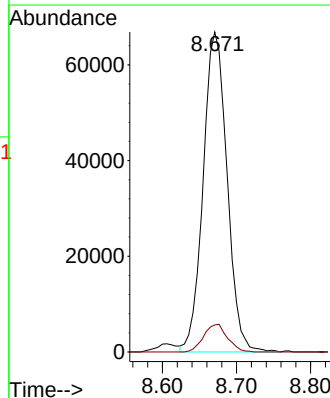
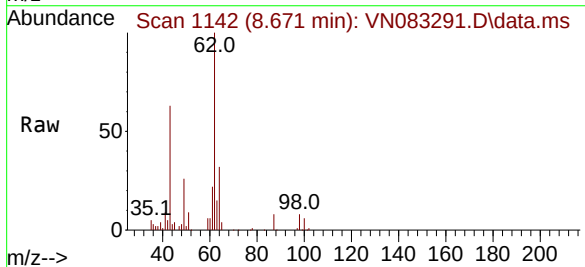
Manual Integrations
APPROVED

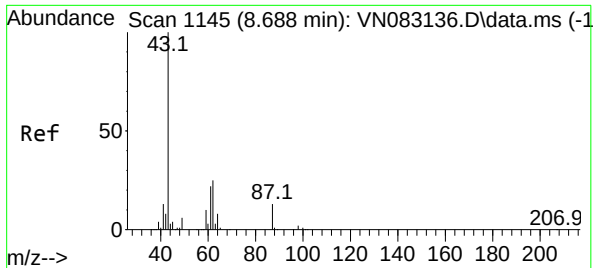
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#42
1,2-Dichloroethane
Concen: 54.823 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

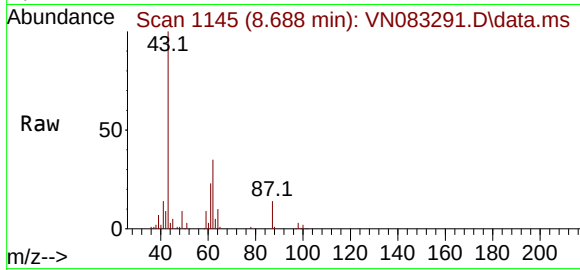
Tgt Ion: 62 Resp: 150044
Ion Ratio Lower Upper
62 100
98 8.6 0.0 15.8





#43
Isopropyl Acetate
Concen: 45.145 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

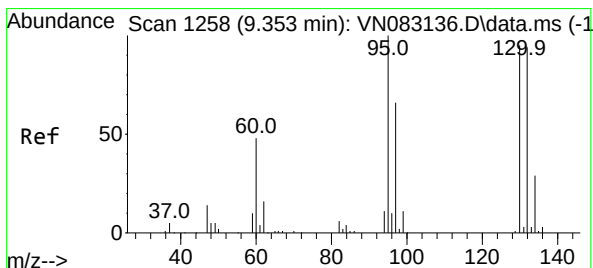
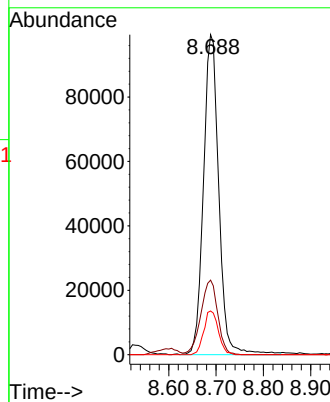
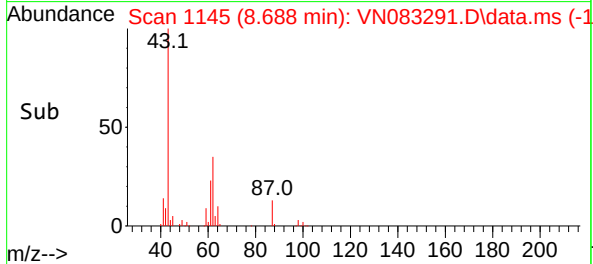
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



Tgt Ion: 43 Resp: 222619
Ion Ratio Lower Upper
43 100
61 25.7 17.8 26.6
87 13.0 8.2 12.2

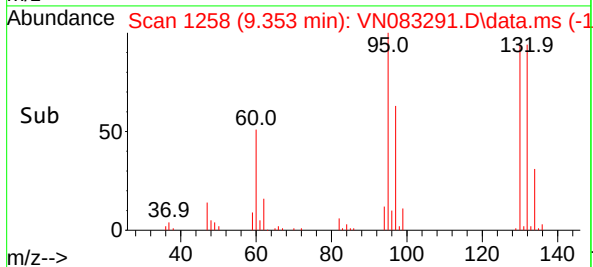
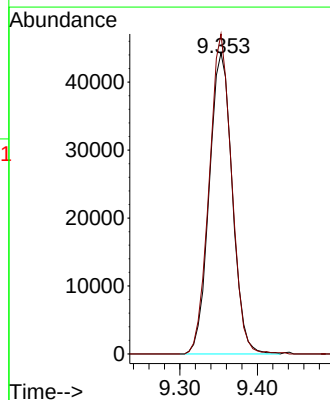
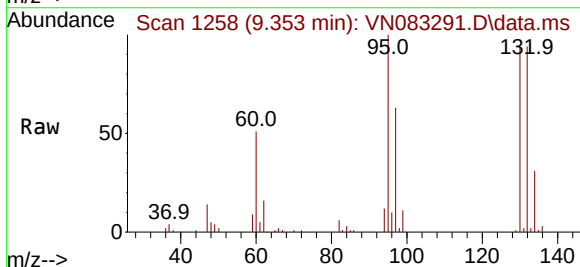
Manual Integrations
APPROVED

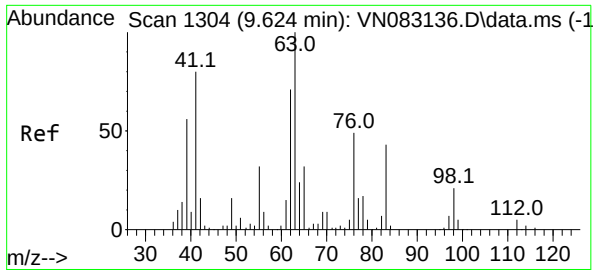
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#44
Trichloroethene
Concen: 51.061 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion:130 Resp: 91313
Ion Ratio Lower Upper
130 100
95 106.3 0.0 197.8





#45

1,2-Dichloropropane

Concen: 55.044 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.006 min

Lab File: VN083291.D

Acq: 14 Aug 2024 10:28

Instrument :

MSVOA_N

ClientSampleId :

924-K1-WP0-0.25-080224MS

Tgt Ion: 63 Resp: 9816

Ion Ratio Lower Upper

63 100

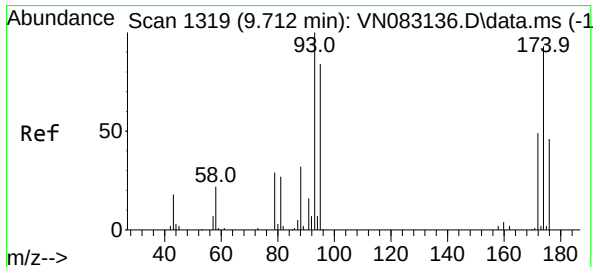
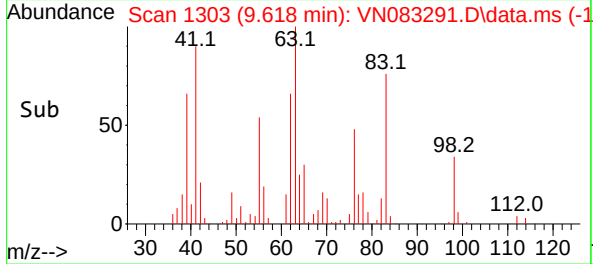
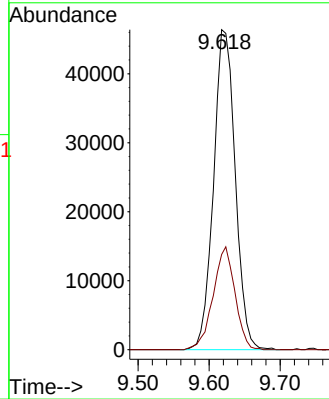
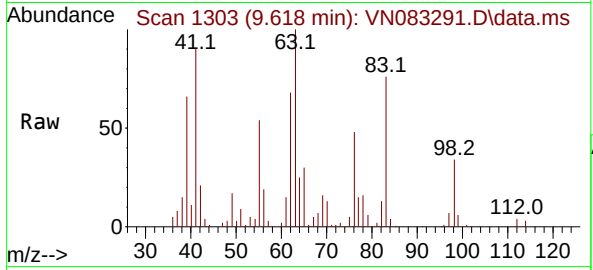
65 29.8 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024

Supervised By :Semsettin Yesilyurt 08/16/2024



#46

Dibromomethane

Concen: 55.850 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.006 min

Lab File: VN083291.D

Acq: 14 Aug 2024 10:28

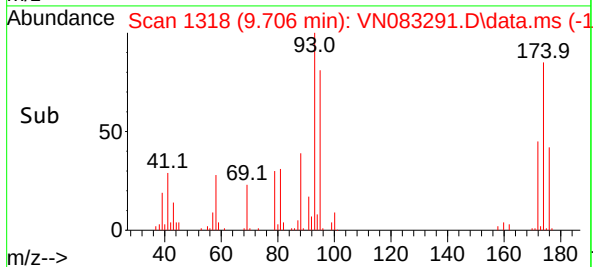
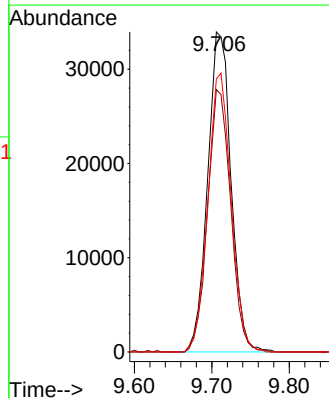
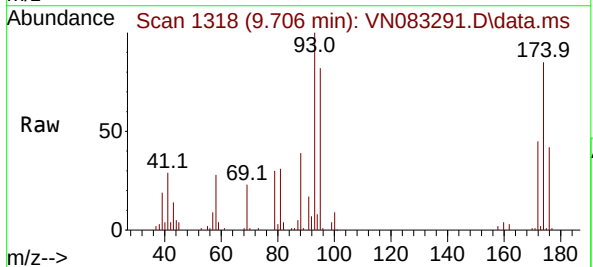
Tgt Ion: 93 Resp: 71294

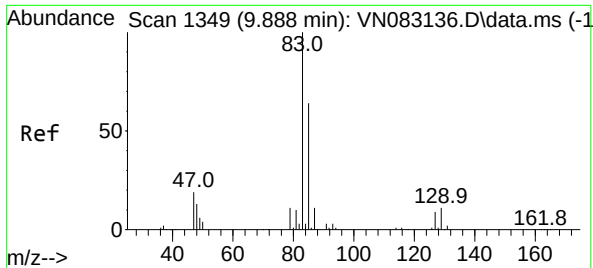
Ion Ratio Lower Upper

93 100

95 81.0 65.8 98.6

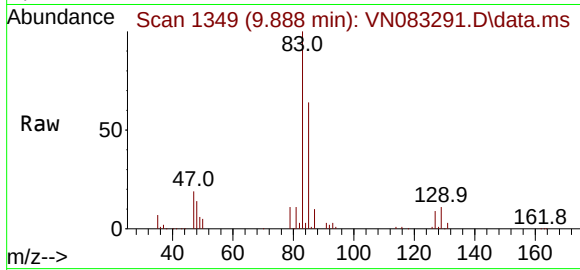
174 86.4 71.7 107.5





#47
Bromodichloromethane
Concen: 53.153 ug/l
RT: 9.888 min Scan# 1349
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

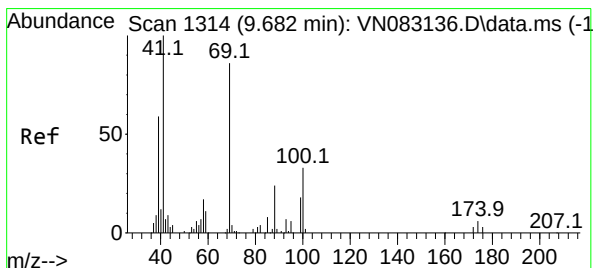
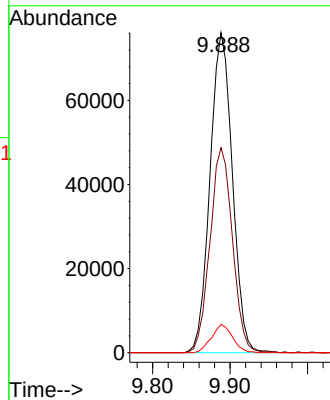
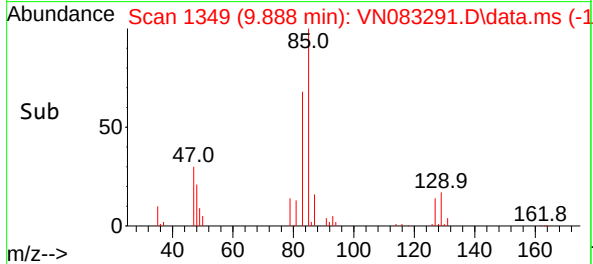
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



Tgt Ion: 83 Resp: 152349
Ion Ratio Lower Upper
83 100
85 64.1 51.1 76.7
127 8.9 7.2 10.8

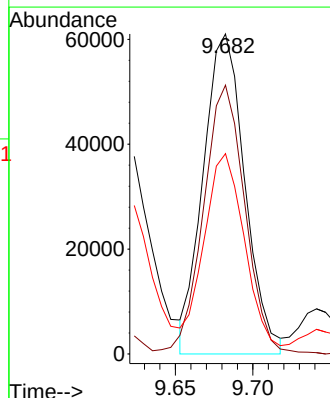
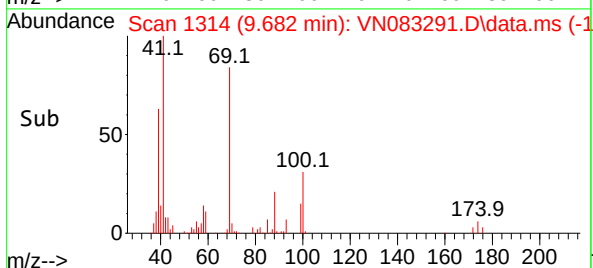
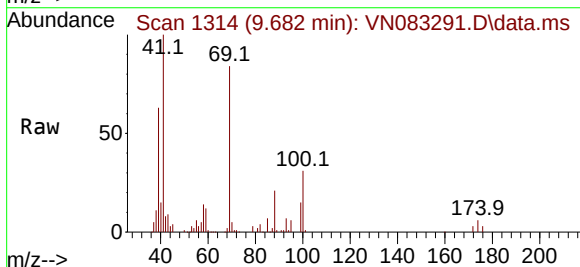
Manual Integrations
APPROVED

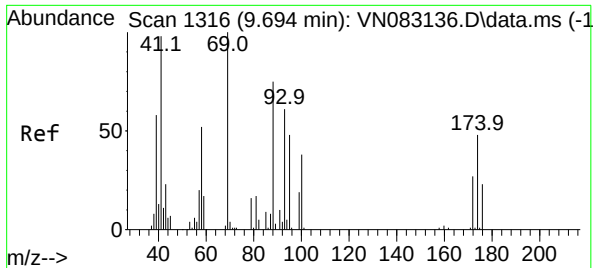
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#48
Methyl methacrylate
Concen: 48.769 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

Tgt Ion: 41 Resp: 113855
Ion Ratio Lower Upper
41 100
69 83.9 56.3 84.5
39 61.9 50.3 75.5





#49

1,4-Dioxane

Concen: 936.076 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VN083291.D

Acq: 14 Aug 2024 10:28

Instrument :

MSVOA_N

ClientSampleId :

924-K1-WP0-0.25-080224MS

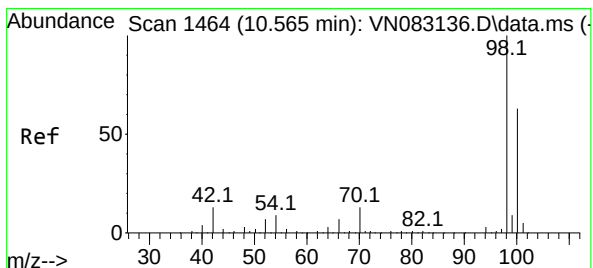
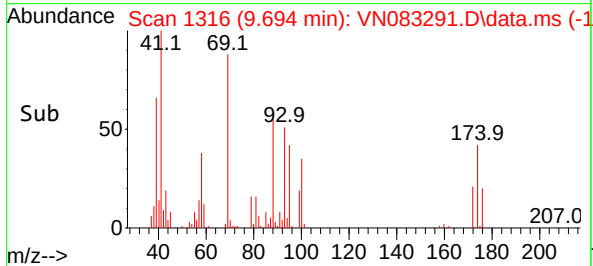
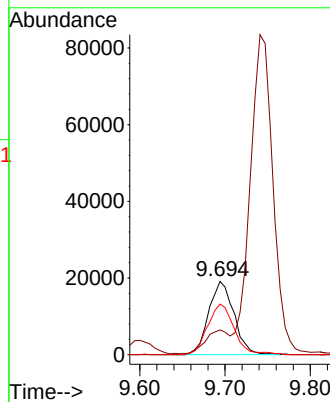
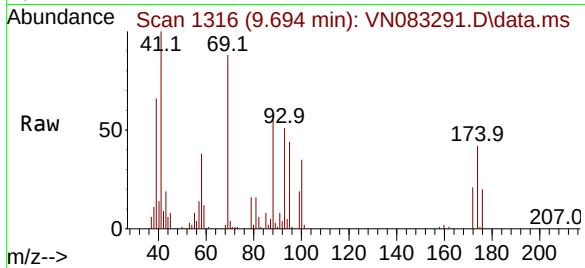
Tgt Ion: 88 Resp: 39420

Ion	Ratio	Lower	Upper
88	100		
43	31.2	27.8	41.8
58	72.3	59.4	89.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#50

Toluene-d8

Concen: 53.572 ug/l

RT: 10.565 min Scan# 1464

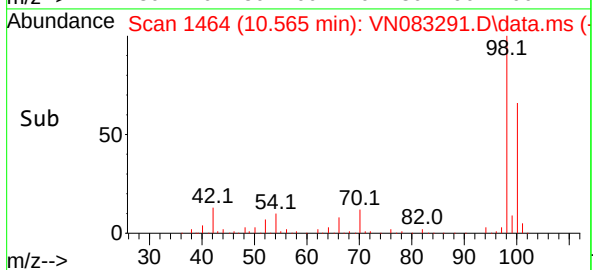
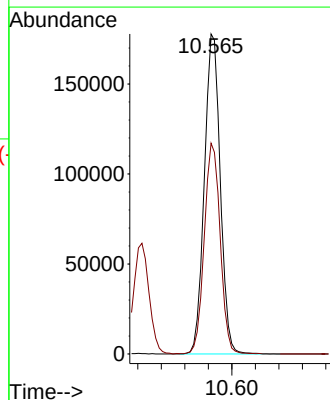
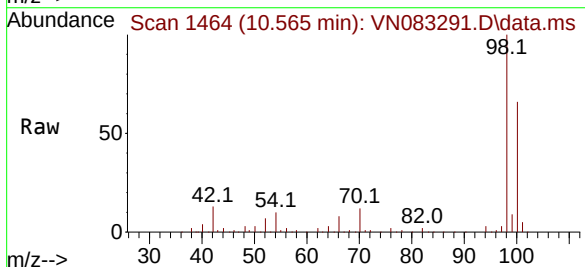
Delta R.T. -0.000 min

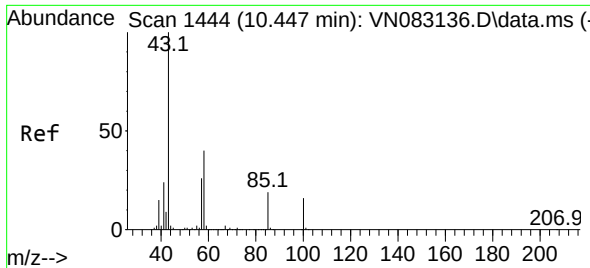
Lab File: VN083291.D

Acq: 14 Aug 2024 10:28

Tgt Ion: 98 Resp: 333167

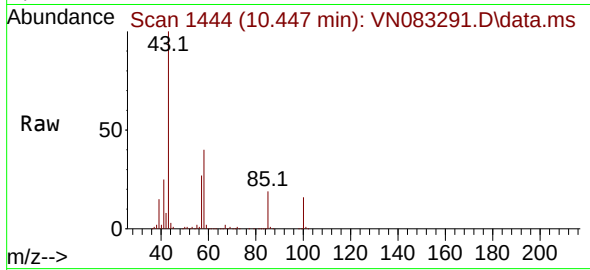
Ion	Ratio	Lower	Upper
98	100		
100	65.9	51.5	77.3





#51
4-Methyl-2-Pentanone
Concen: 266.212 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

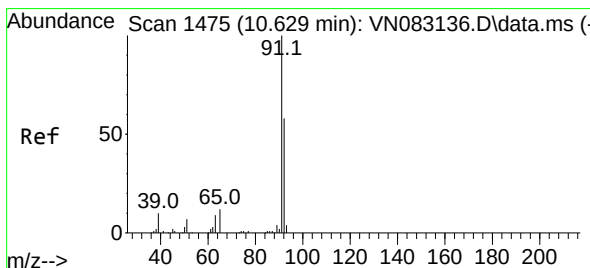
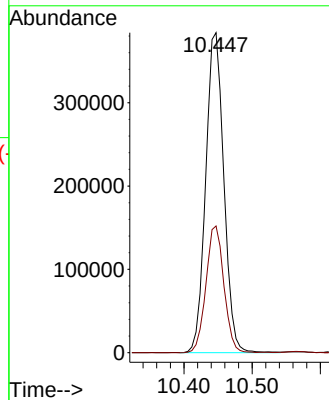
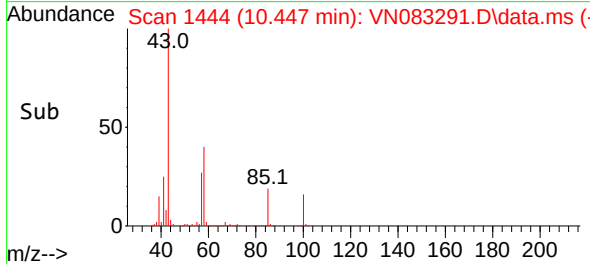
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



Tgt Ion: 43 Resp: 710872
Ion Ratio Lower Upper
43 100
58 39.2 28.2 42.4

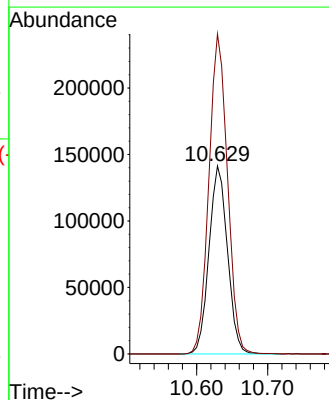
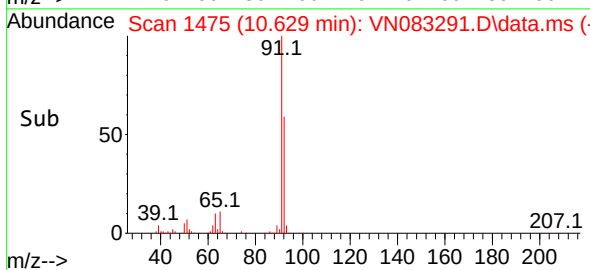
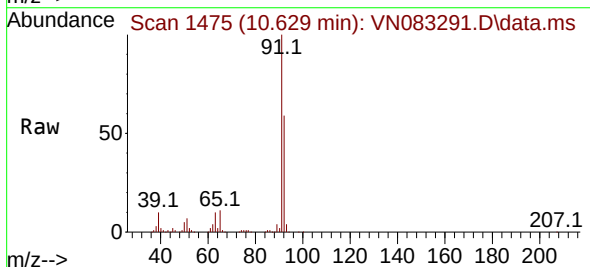
Manual Integrations
APPROVED

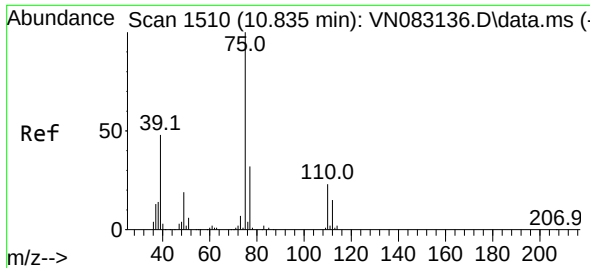
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#52
Toluene
Concen: 53.845 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

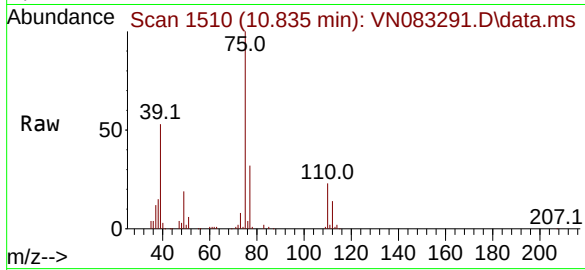
Tgt Ion: 92 Resp: 255610
Ion Ratio Lower Upper
92 100
91 170.9 139.4 209.0





#53
t-1,3-Dichloropropene
Concen: 47.500 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

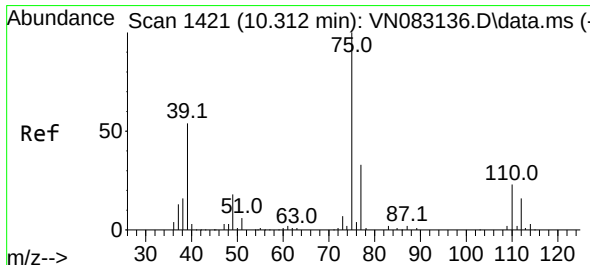
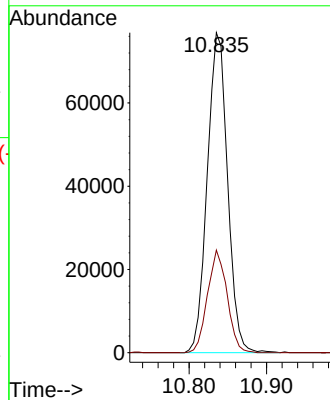
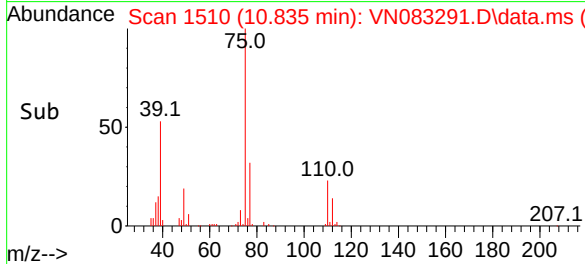
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



Tgt Ion: 75 Resp: 139852
Ion Ratio Lower Upper
75 100
77 32.0 25.7 38.5

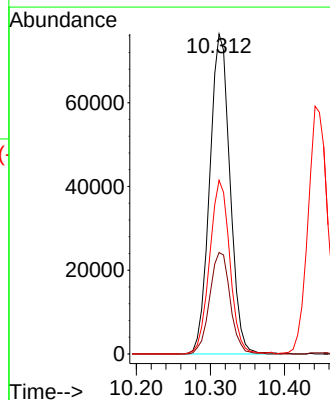
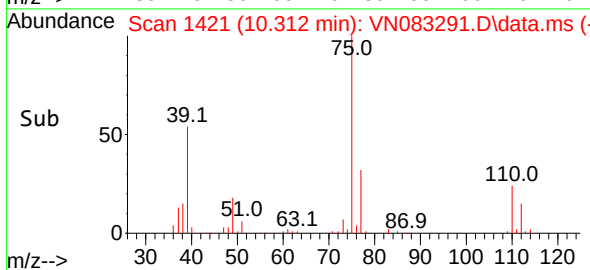
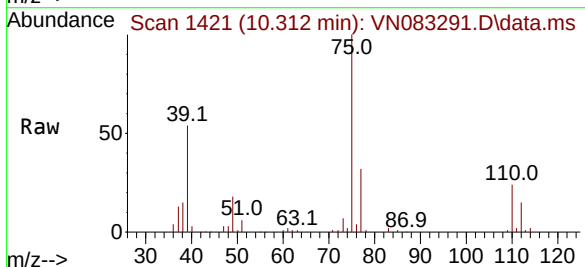
Manual Integrations
APPROVED

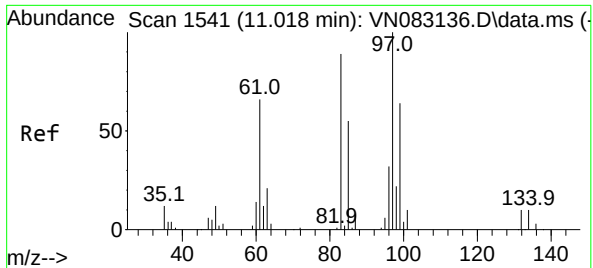
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#54
cis-1,3-Dichloropropene
Concen: 46.395 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

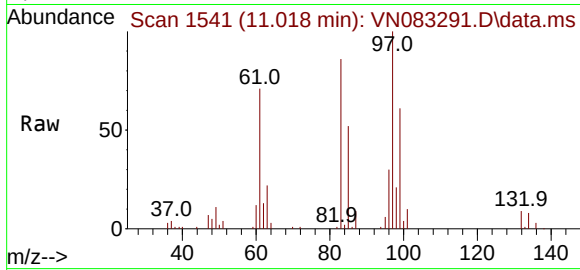
Tgt Ion: 75 Resp: 145290
Ion Ratio Lower Upper
75 100
77 31.7 24.3 36.5
39 54.2 50.5 75.7





#55
1,1,2-Trichloroethane
Concen: 56.379 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

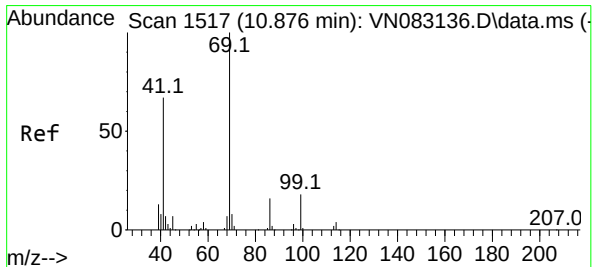
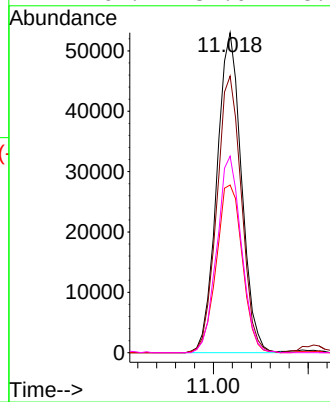
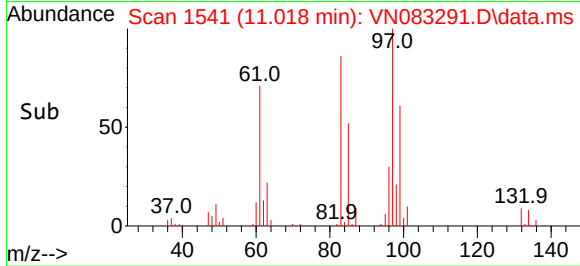
Instrument : MSVOA_N
ClientSampleId : 924-K1-WP0-0.25-080224MS



Tgt Ion: 97 Resp: 9591
Ion Ratio Lower Upper
97 100
83 86.4 71.4 107.0
85 52.4 45.8 68.6
99 61.4 52.0 78.0

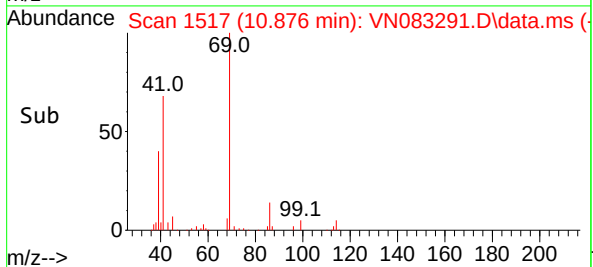
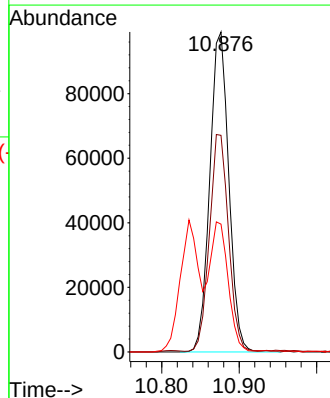
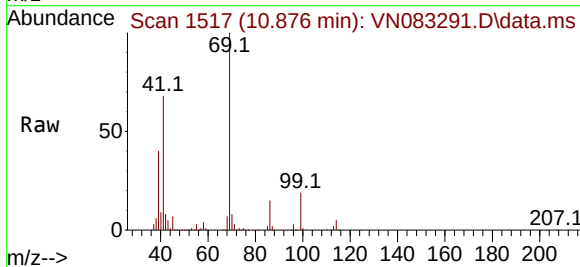
Manual Integrations
APPROVED

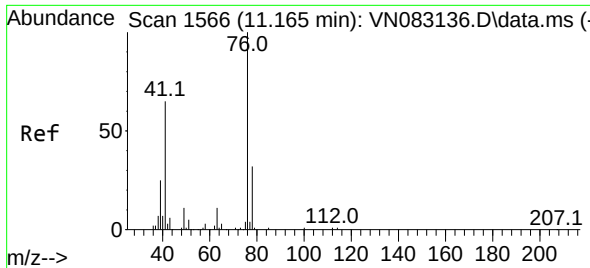
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#56
Ethyl methacrylate
Concen: 52.609 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

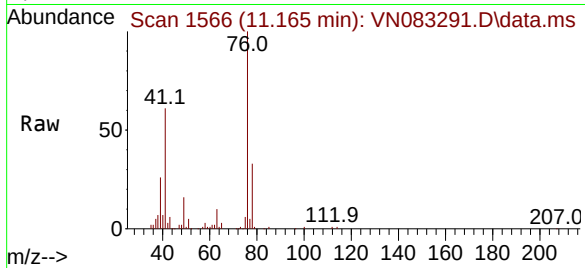
Tgt Ion: 69 Resp: 168724
Ion Ratio Lower Upper
69 100
41 67.8 63.4 95.2
39 39.8 37.4 56.0





#57
1,3-Dichloropropane
Concen: 54.349 ug/l
RT: 11.165 min Scan# 1566
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

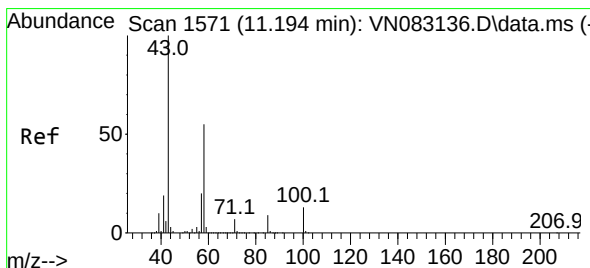
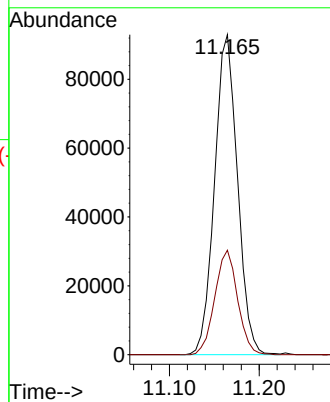
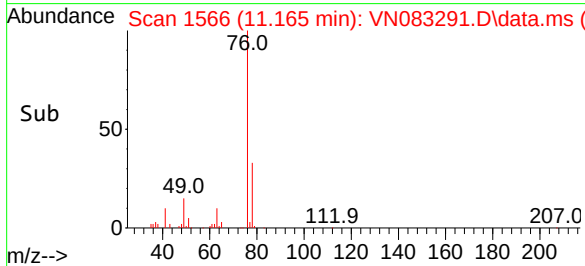
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



Tgt Ion: 76 Resp: 16480
Ion Ratio Lower Upper
76 100
78 32.4 25.6 38.4

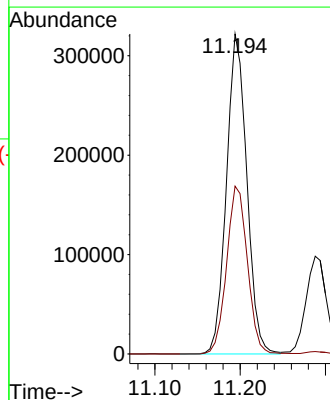
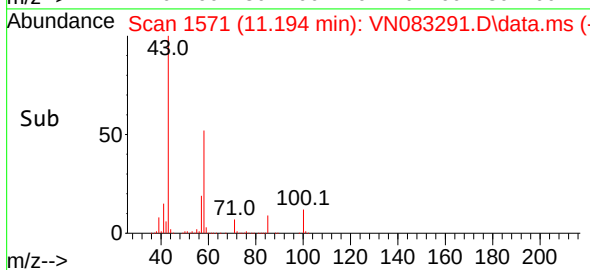
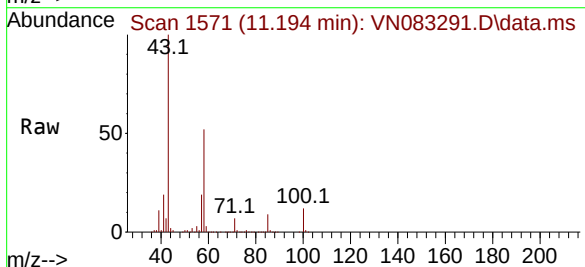
Manual Integrations
APPROVED

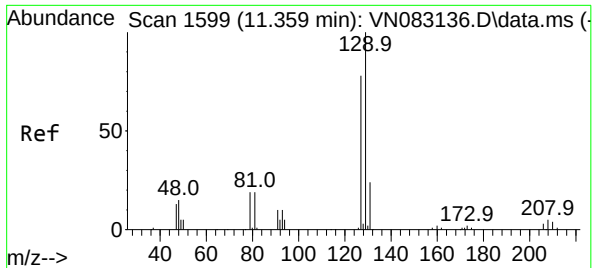
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#59
2-Hexanone
Concen: 258.178 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

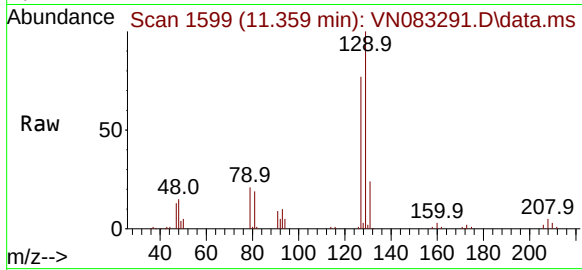
Tgt Ion: 43 Resp: 533360
Ion Ratio Lower Upper
43 100
58 53.6 24.6 73.8





#60
Dibromochloromethane
Concen: 55.207 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

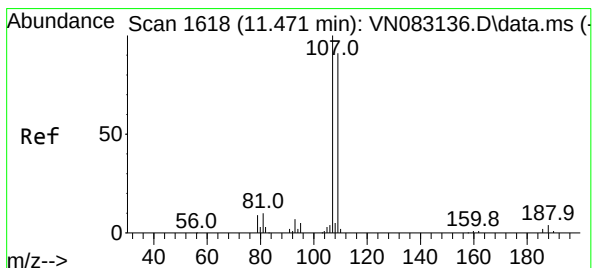
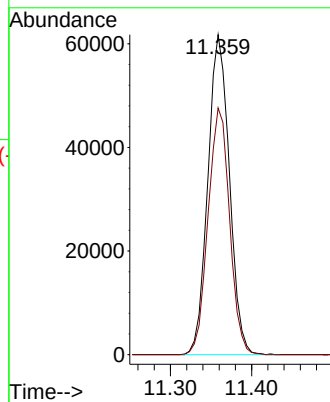
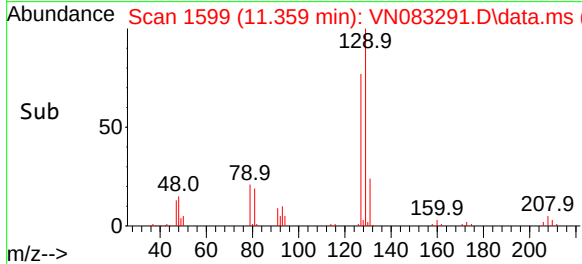
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



Tgt Ion:129 Resp: 113552
Ion Ratio Lower Upper
129 100
127 77.1 39.2 117.6

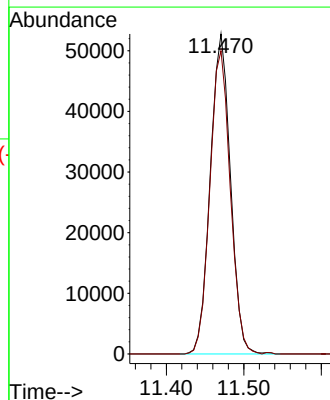
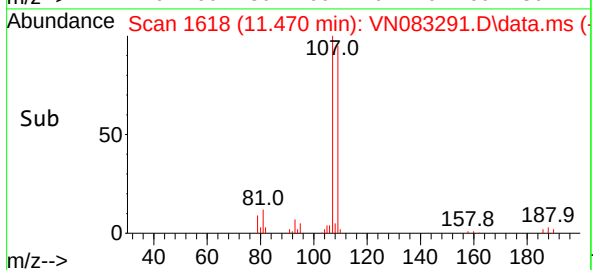
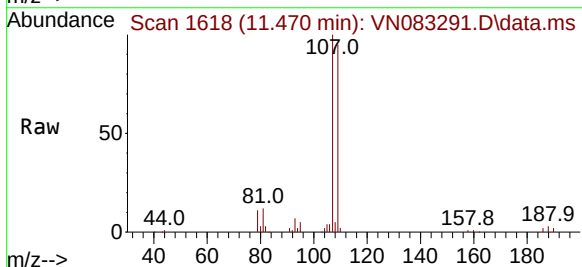
Manual Integrations
APPROVED

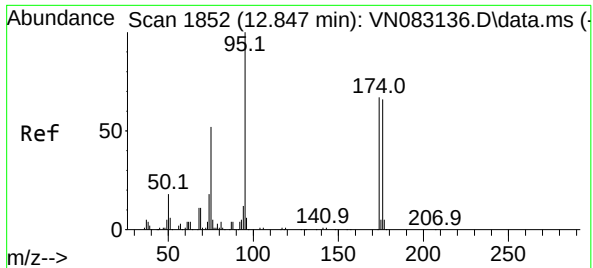
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#61
1,2-Dibromoethane
Concen: 53.418 ug/l
RT: 11.470 min Scan# 1618
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

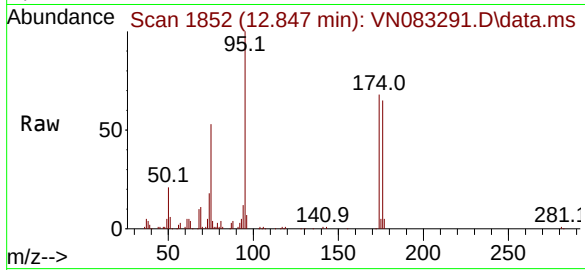
Tgt Ion:107 Resp: 95465
Ion Ratio Lower Upper
107 100
109 95.6 73.7 110.5





#62
4-Bromofluorobenzene
Concen: 54.595 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

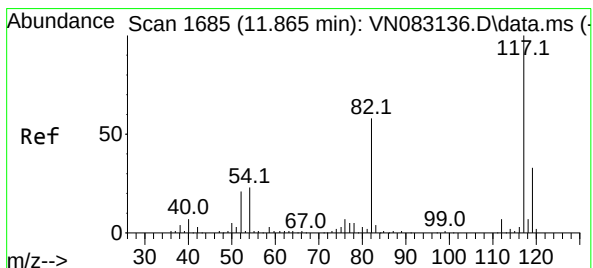
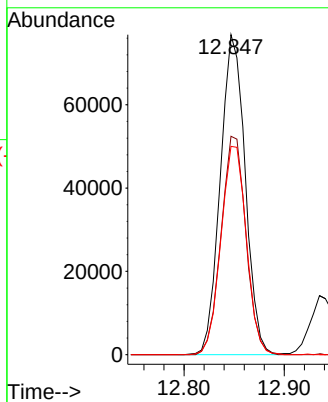
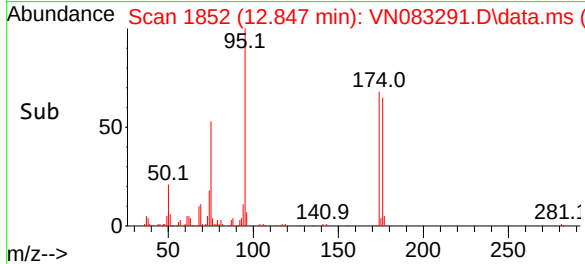
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



Tgt Ion: 95 Resp: 132370
Ion Ratio Lower Upper
95 100
174 68.1 0.0 159.2
176 66.8 0.0 147.6

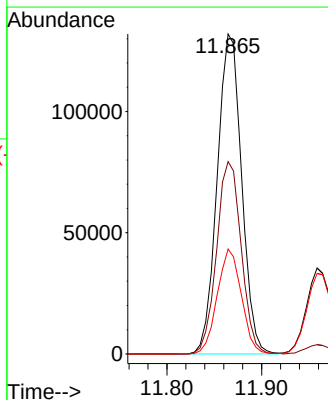
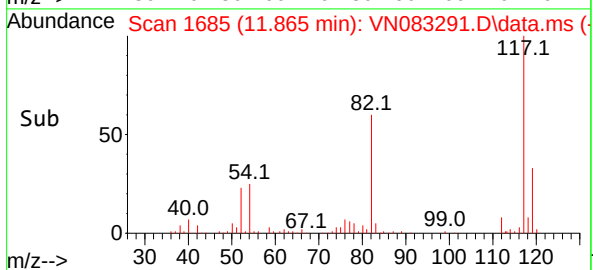
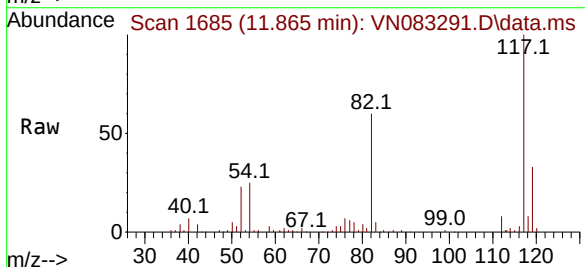
Manual Integrations
APPROVED

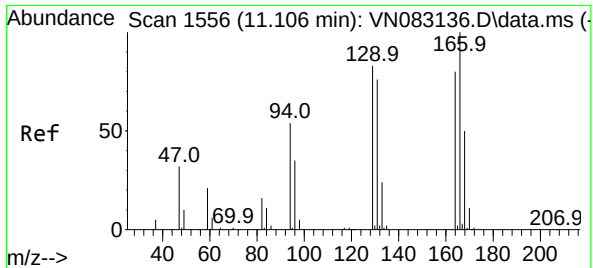
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

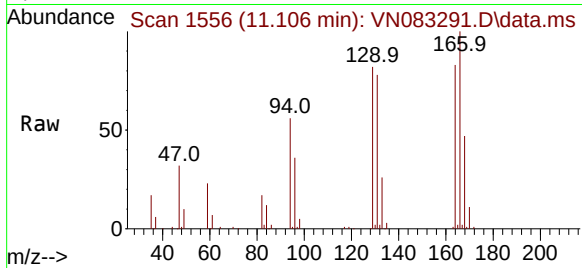
Tgt Ion:117 Resp: 236618
Ion Ratio Lower Upper
117 100
82 60.1 47.5 71.3
119 32.8 25.6 38.4





#64
Tetrachloroethene
Concen: 47.849 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

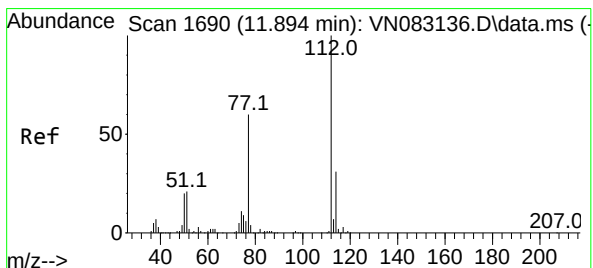
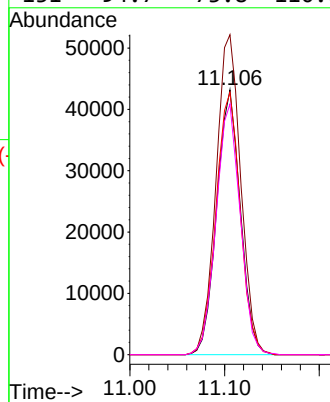
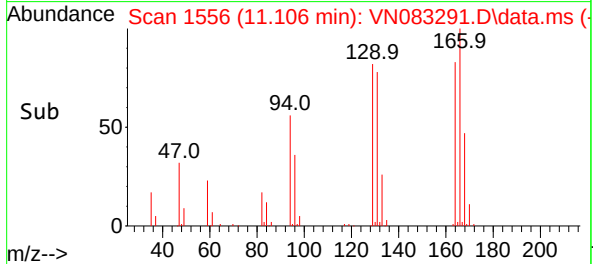
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



Tgt Ion:164 Resp: 7498
Ion Ratio Lower Upper
164 100
166 120.9 101.4 152.0
129 99.1 75.7 113.5
131 94.7 73.8 110.6

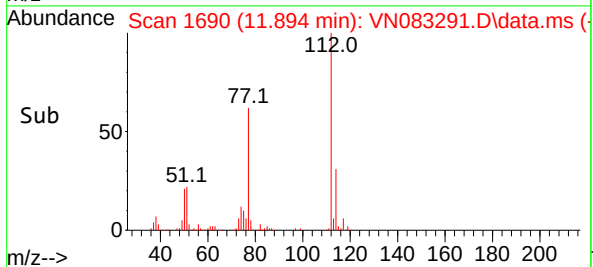
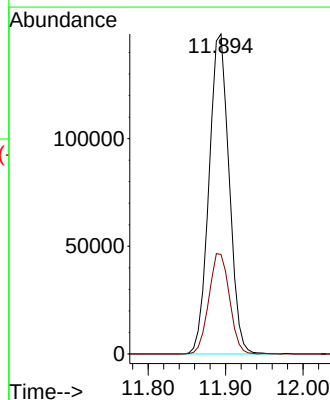
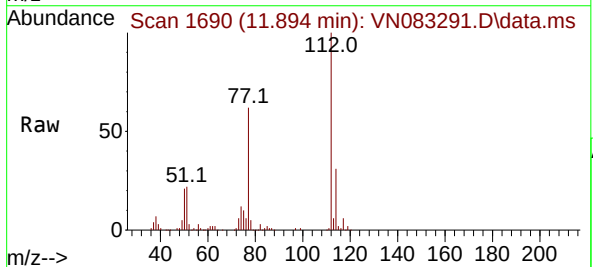
Manual Integrations
APPROVED

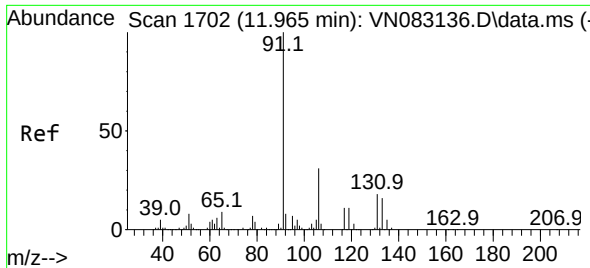
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#65
Chlorobenzene
Concen: 51.202 ug/l
RT: 11.894 min Scan# 1690
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

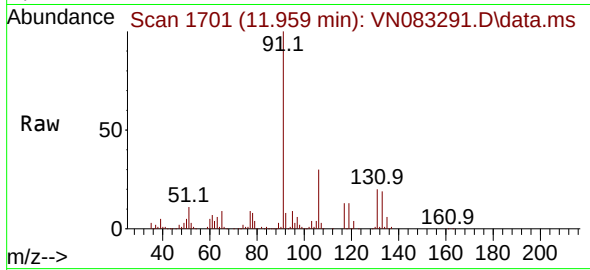
Tgt Ion:112 Resp: 267734
Ion Ratio Lower Upper
112 100
114 31.1 26.2 39.2





#66
1,1,1,2-Tetrachloroethane
Concen: 52.188 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

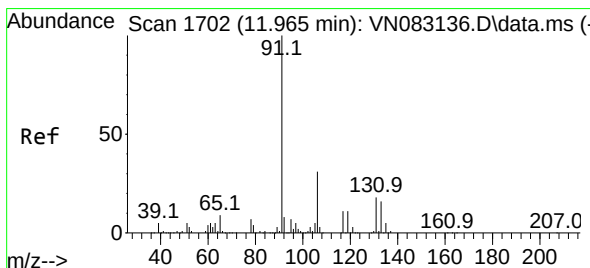
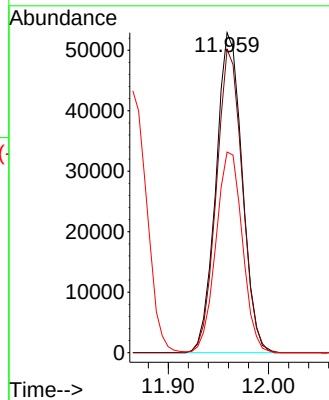
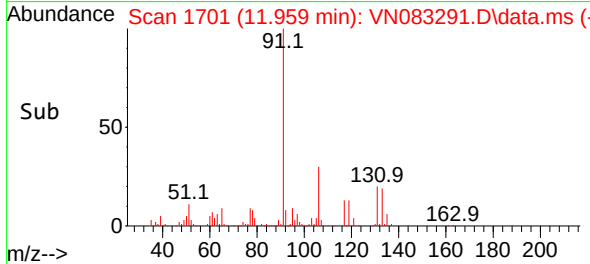
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



Tgt Ion:131 Resp: 9624
Ion Ratio Lower Upper
131 100
133 93.8 47.3 142.0
119 63.4 32.5 97.4

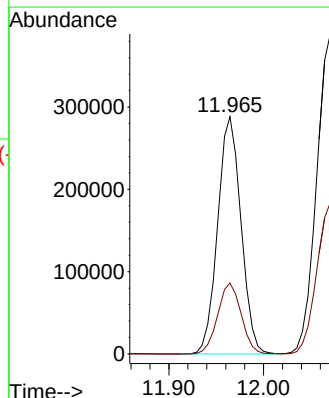
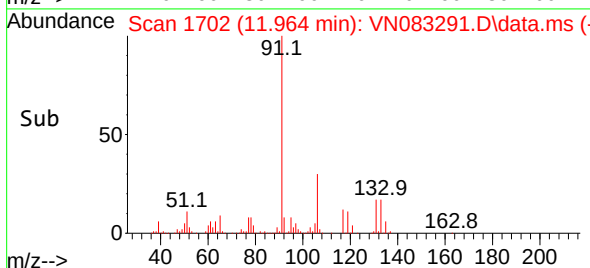
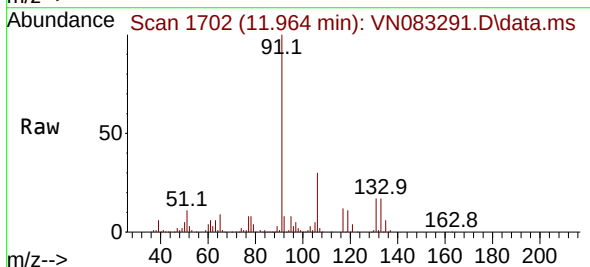
Manual Integrations
APPROVED

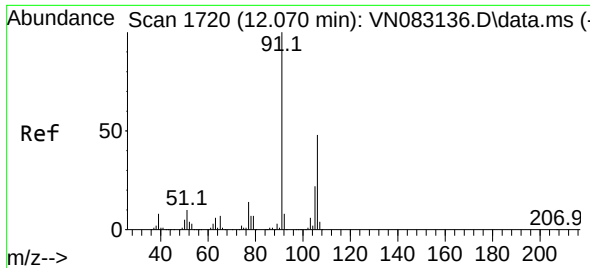
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#67
Ethyl Benzene
Concen: 51.443 ug/l
RT: 11.964 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

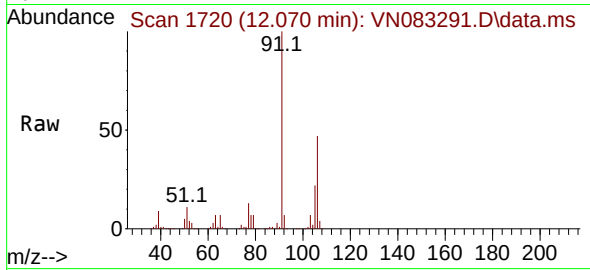
Tgt Ion: 91 Resp: 493460
Ion Ratio Lower Upper
91 100
106 29.9 24.0 36.0





#68
m/p-Xylenes
Concen: 102.346 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

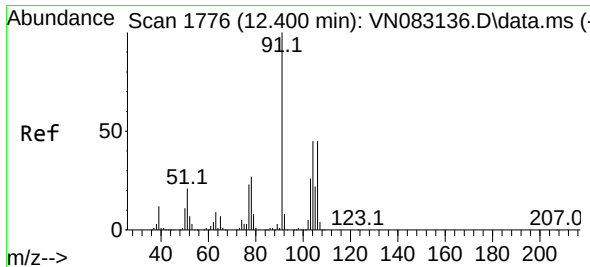
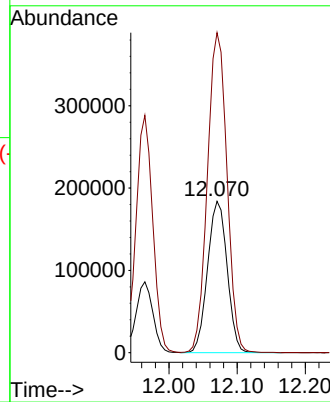
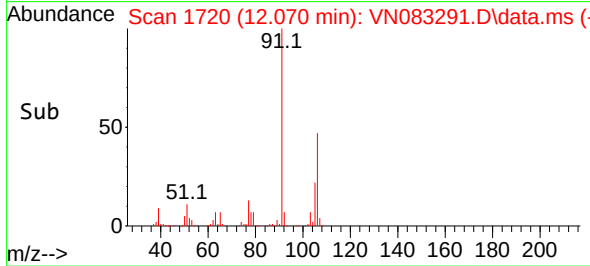
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



Tgt Ion:106 Resp: 36775
Ion Ratio Lower Upper
106 100
91 211.2 166.1 249.1

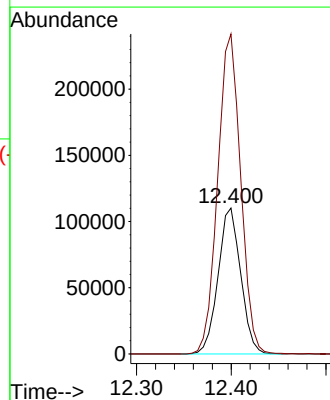
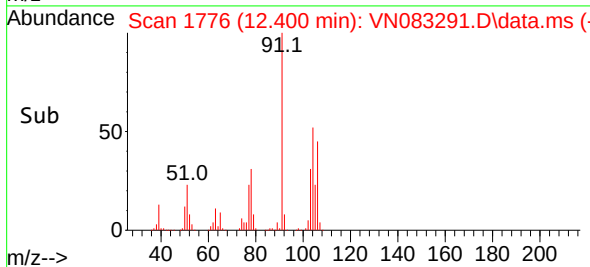
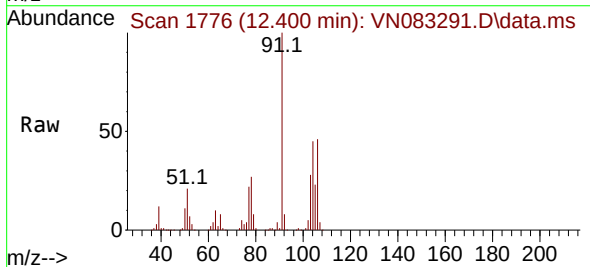
Manual Integrations
APPROVED

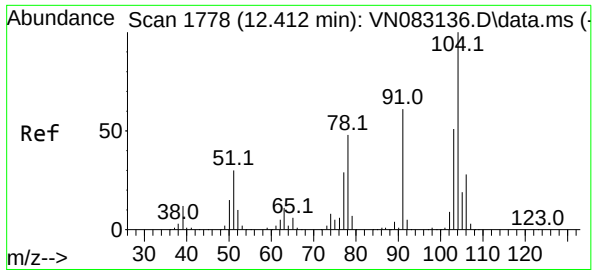
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#69
o-Xylene
Concen: 51.599 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

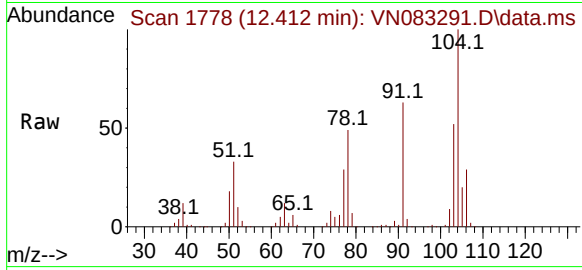
Tgt Ion:106 Resp: 182861
Ion Ratio Lower Upper
106 100
91 222.9 111.3 333.9





#70
Styrene
Concen: 51.707 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

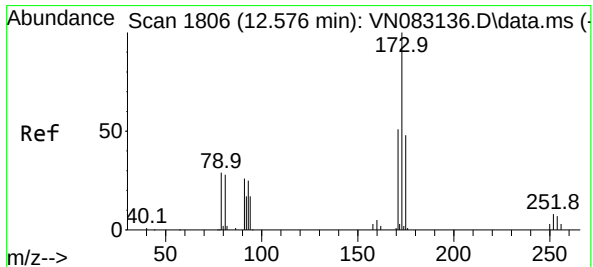
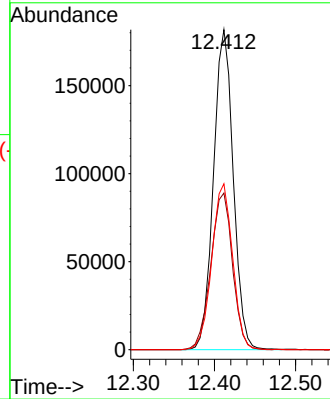
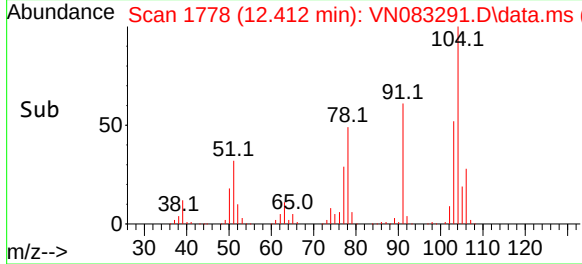
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



Tgt Ion:104 Resp: 307760
Ion Ratio Lower Upper
104 100
78 53.8 41.6 62.4
103 54.7 44.0 66.0

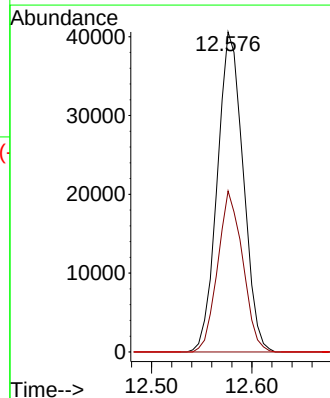
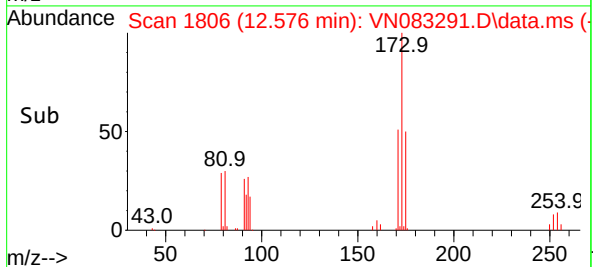
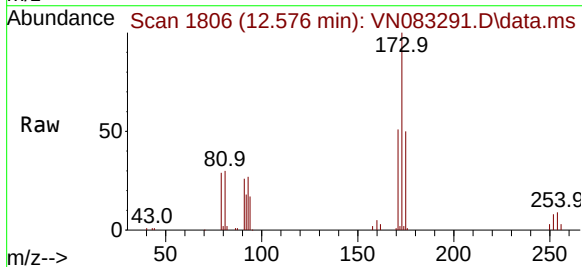
Manual Integrations
APPROVED

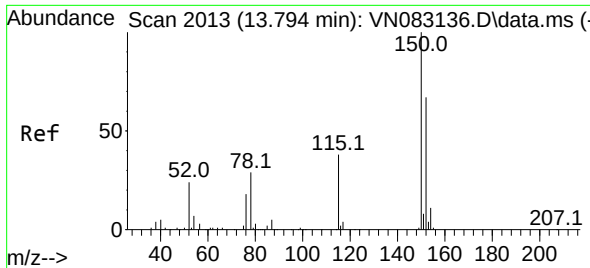
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#71
Bromoform
Concen: 51.938 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

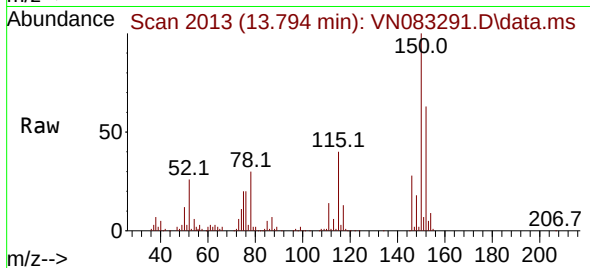
Tgt Ion:173 Resp: 72561
Ion Ratio Lower Upper
173 100
175 48.6 24.0 72.0
254 0.0 0.0 0.0





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

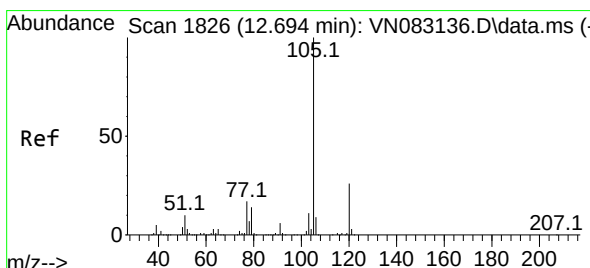
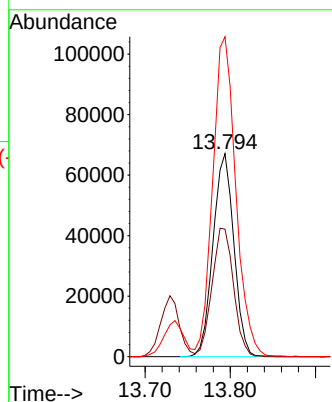
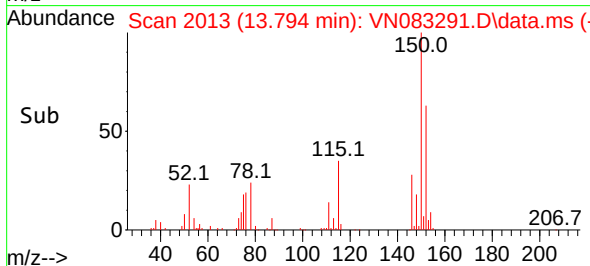
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



Tgt Ion:152 Resp: 11416
Ion Ratio Lower Upper
152 100
115 65.2 30.6 91.6
150 174.3 0.0 348.6

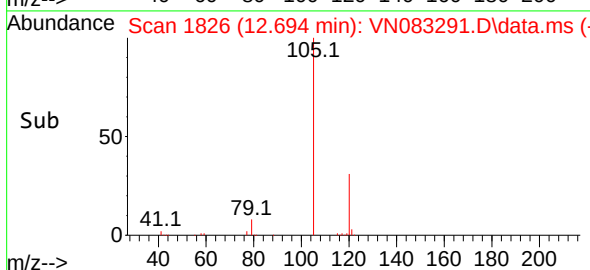
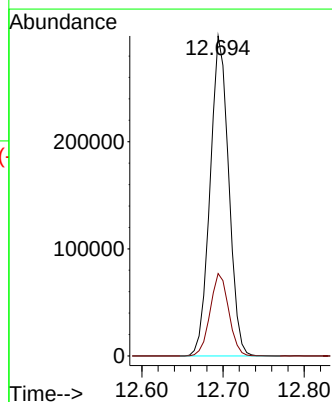
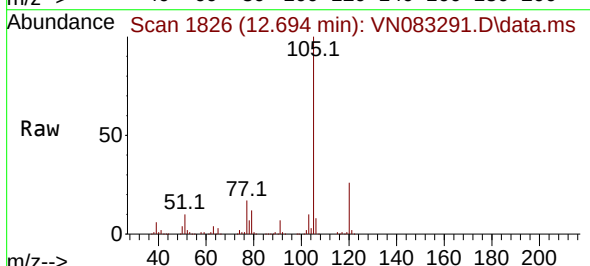
Manual Integrations
APPROVED

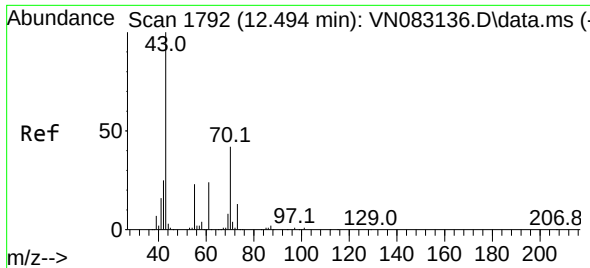
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#73
Isopropylbenzene
Concen: 49.732 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

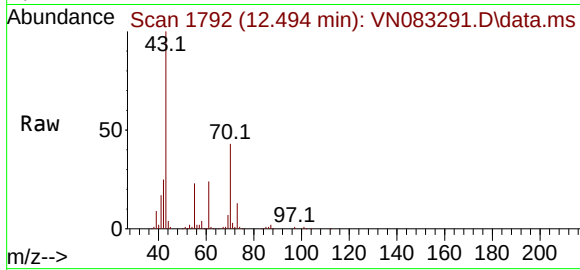
Tgt Ion:105 Resp: 474897
Ion Ratio Lower Upper
105 100
120 25.7 12.9 38.6





#74
N-amy1 acetate
Concen: 38.308 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

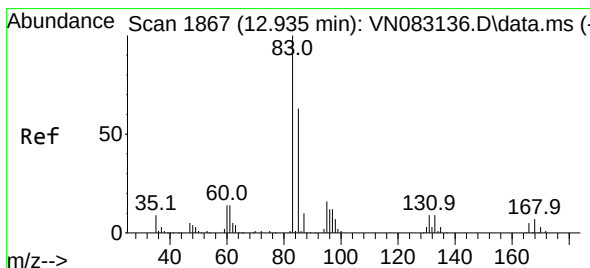
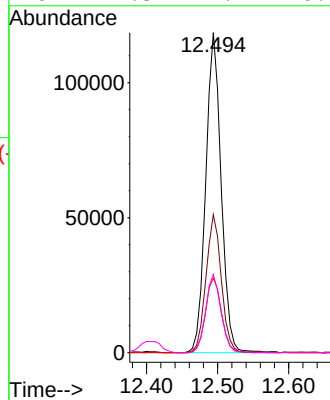
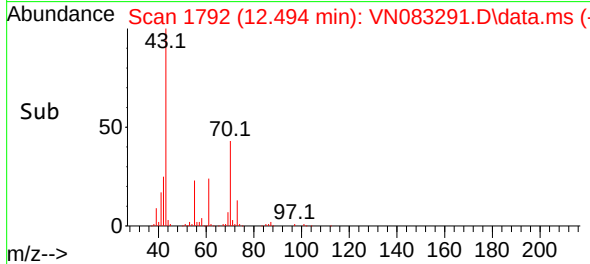
Instrument : MSVOA_N
ClientSampleId : 924-K1-WP0-0.25-080224MS



Tgt Ion: 43 Resp: 178930
Ion Ratio Lower Upper
43 100
70 43.1 29.8 44.6
55 24.1 18.7 28.1
61 24.3 17.4 26.0

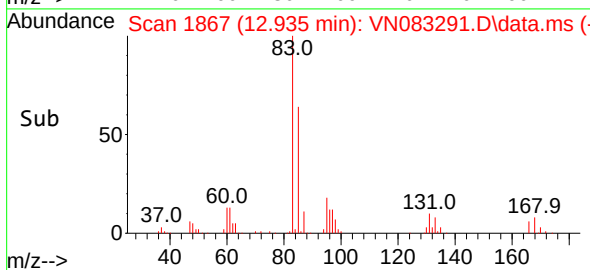
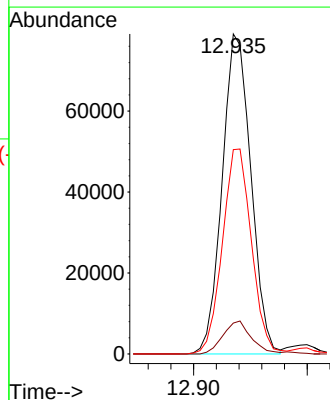
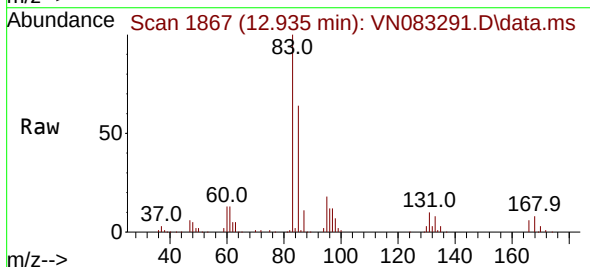
Manual Integrations
APPROVED

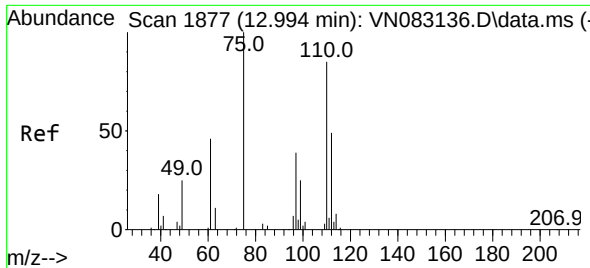
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#75
1,1,2,2-Tetrachloroethane
Concen: 51.402 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

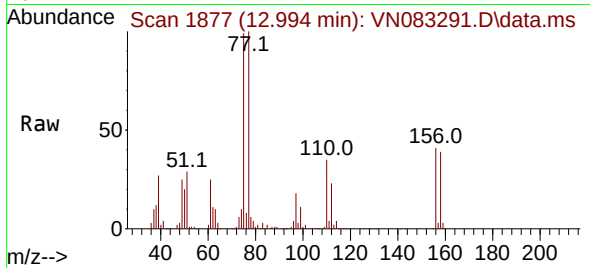
Tgt Ion: 83 Resp: 138825
Ion Ratio Lower Upper
83 100
131 10.5 5.0 14.9
85 64.8 31.9 95.7





#76
1,2,3-Trichloropropane
Concen: 41.977 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

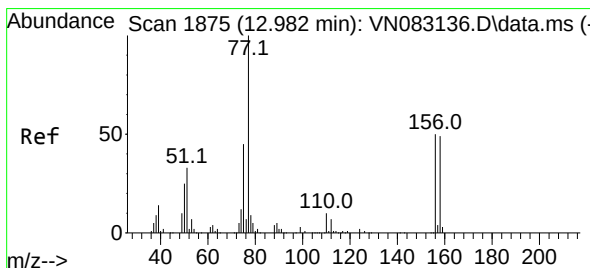
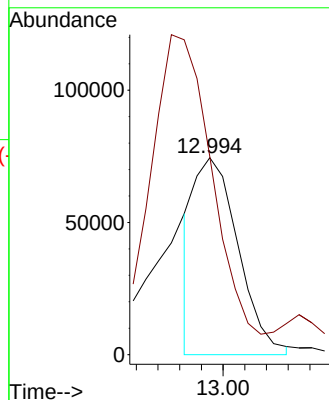
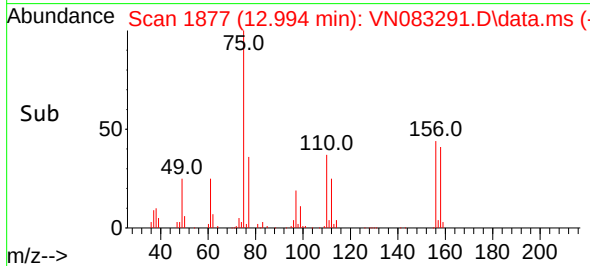
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



Tgt Ion: 75 Resp: 105179
Ion Ratio Lower Upper
75 100
77 233.4 110.9 332.6

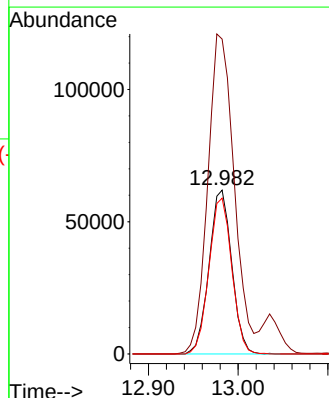
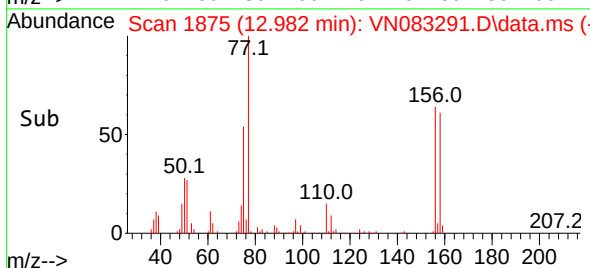
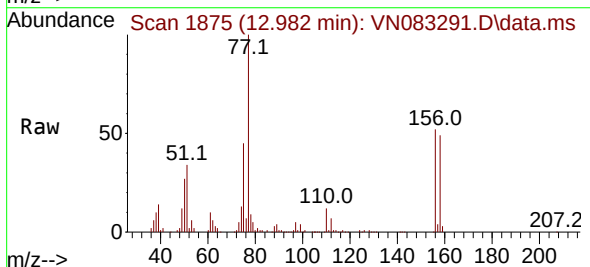
Manual Integrations
APPROVED

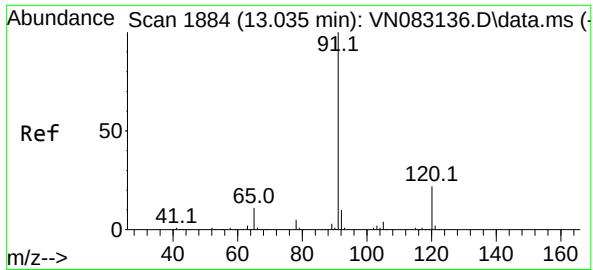
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#77
Bromobenzene
Concen: 51.143 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

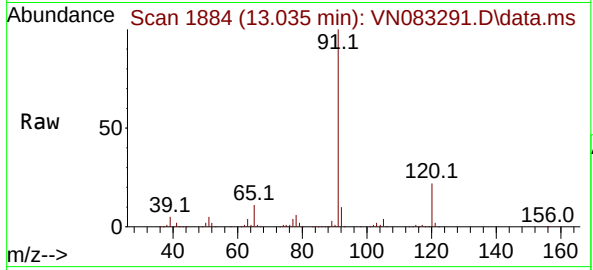
Tgt Ion:156 Resp: 108487
Ion Ratio Lower Upper
156 100
77 226.3 111.3 333.8
158 95.7 48.3 144.9





#78
n-propylbenzene
Concen: 49.911 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

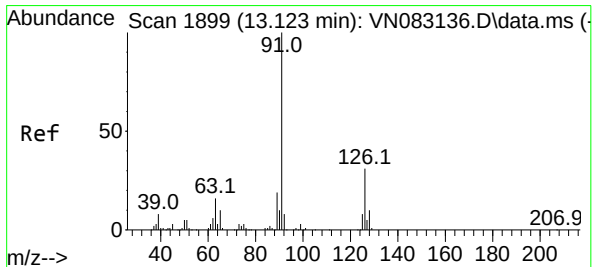
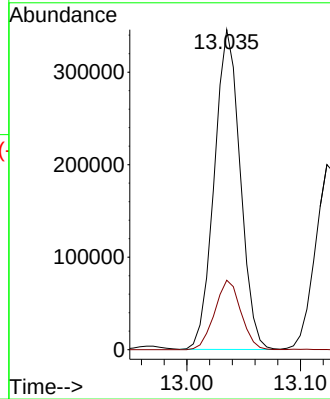
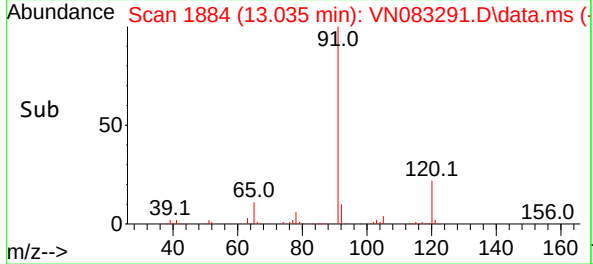
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



Tgt Ion: 91 Resp: 548792
Ion Ratio Lower Upper
91 100
120 21.9 10.9 32.9

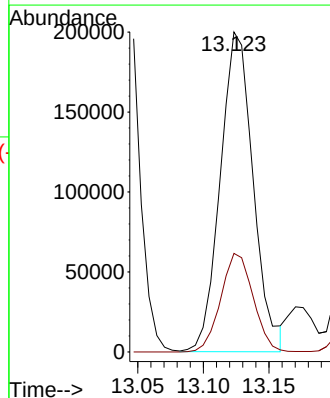
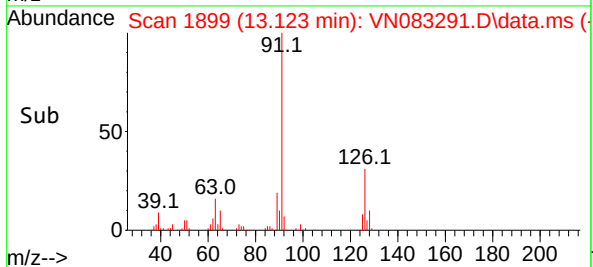
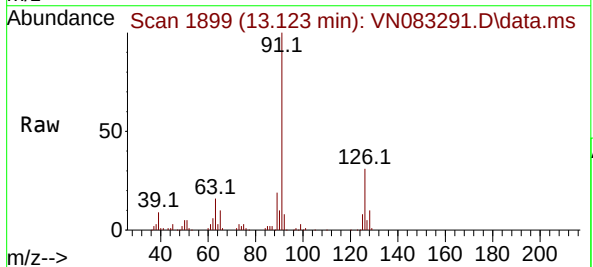
Manual Integrations
APPROVED

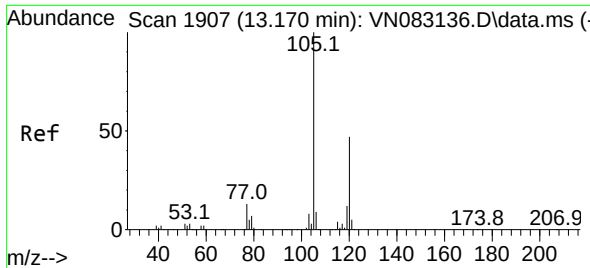
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#79
2-Chlorotoluene
Concen: 50.029 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

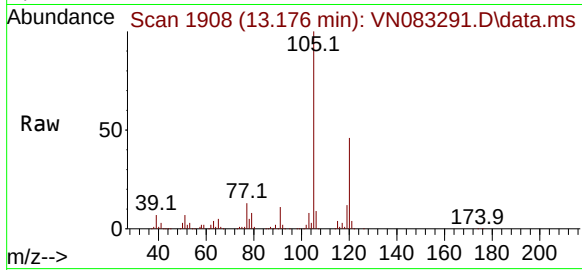
Tgt Ion: 91 Resp: 348757
Ion Ratio Lower Upper
91 100
126 30.4 16.2 48.6





#80
1,3,5-Trimethylbenzene
Concen: 49.827 ug/l
RT: 13.176 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

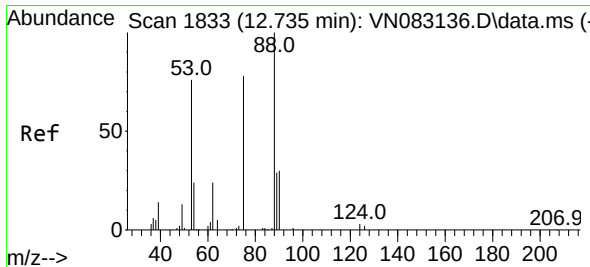
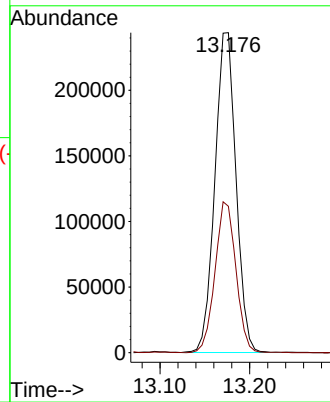
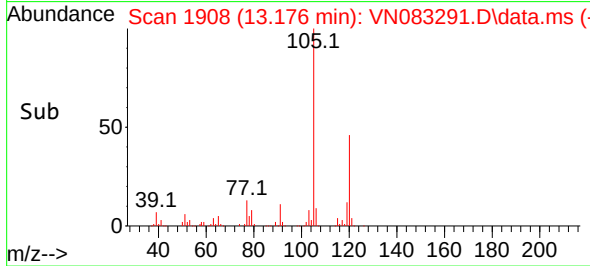
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



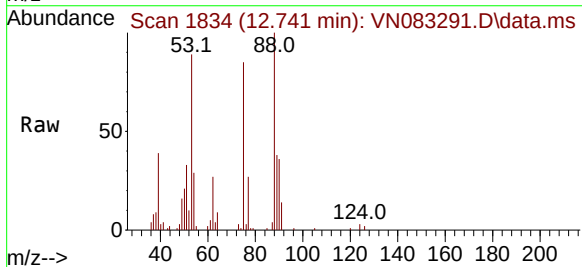
Tgt Ion:105 Resp: 39834
Ion Ratio Lower Upper
105 100
120 46.8 24.3 72.8

Manual Integrations
APPROVED

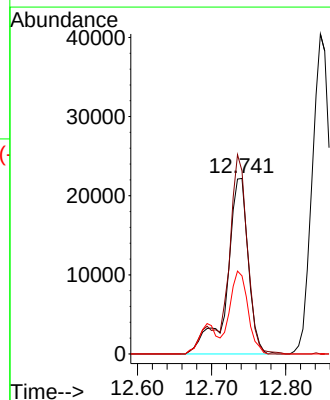
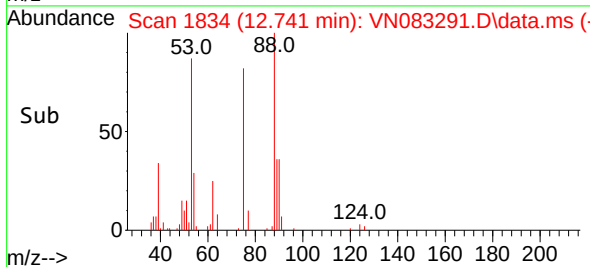
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

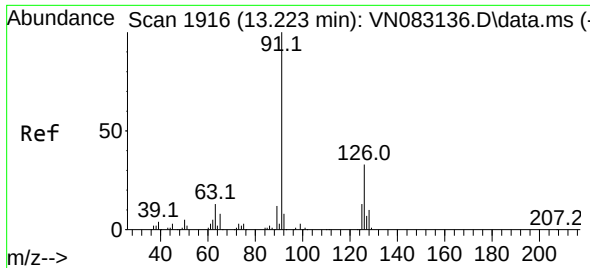


#81
trans-1,4-Dichloro-2-butene
Concen: 38.194 ug/l
RT: 12.741 min Scan# 1834
Delta R.T. 0.006 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28



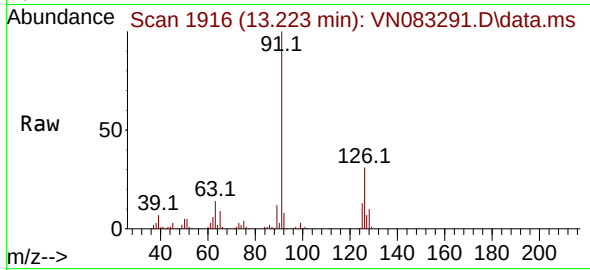
Tgt Ion: 75 Resp: 43995
Ion Ratio Lower Upper
75 100
53 96.6 88.4 132.6
89 40.3 36.3 54.5





#82
4-Chlorotoluene
Concen: 49.743 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

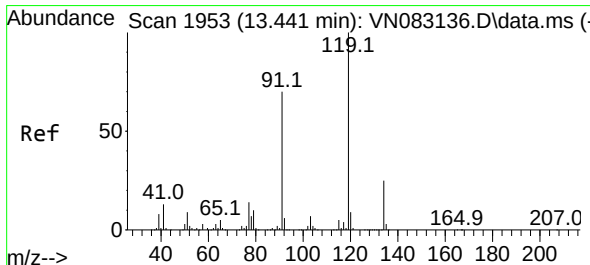
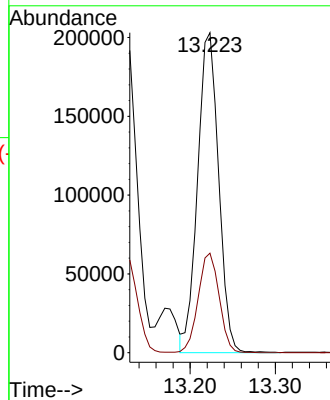
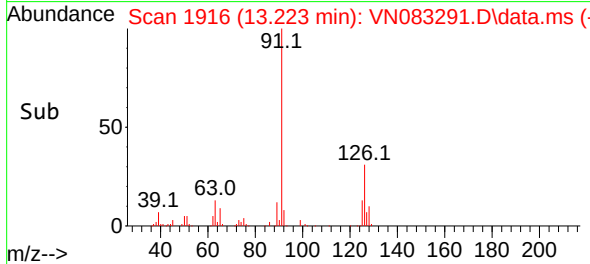
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



Tgt Ion: 91 Resp: 347820
Ion Ratio Lower Upper
91 100
126 31.0 16.2 48.6

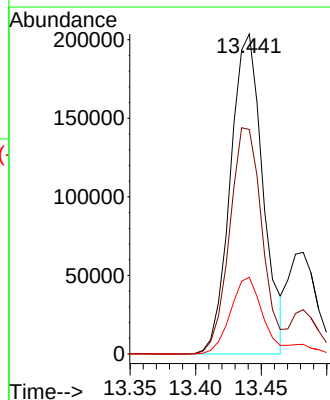
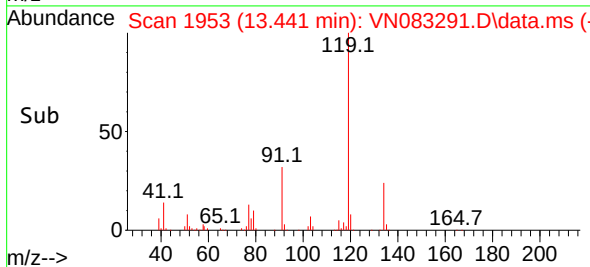
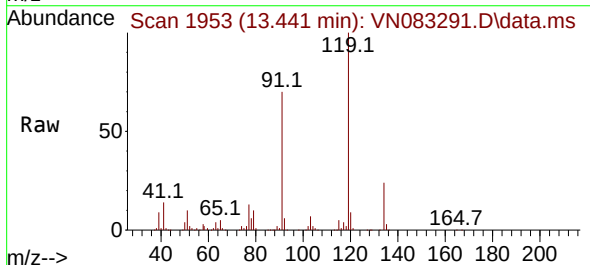
Manual Integrations
APPROVED

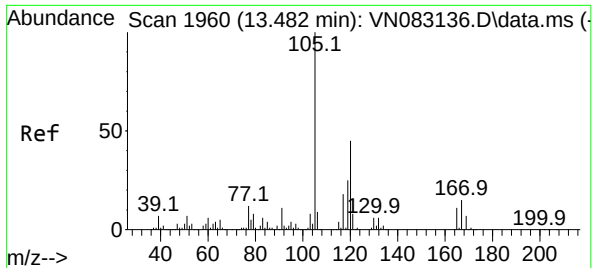
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#83
tert-Butylbenzene
Concen: 49.817 ug/l
RT: 13.441 min Scan# 1953
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

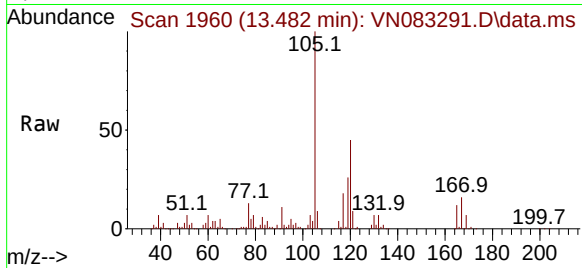
Tgt Ion:119 Resp: 352698
Ion Ratio Lower Upper
119 100
91 70.4 35.0 105.1
134 25.7 13.3 39.8





#84
1,2,4-Trimethylbenzene
Concen: 50.212 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

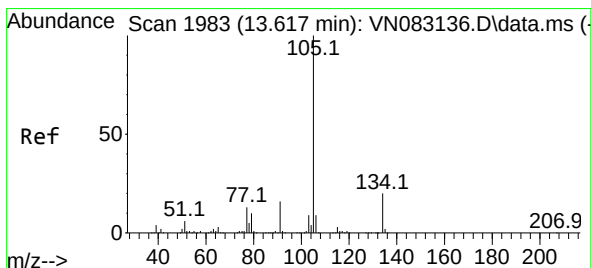
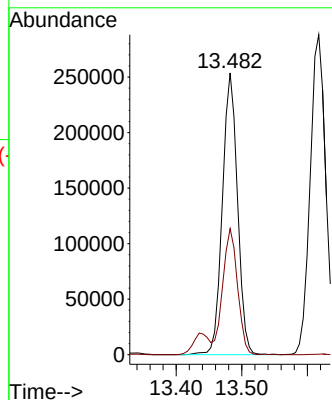
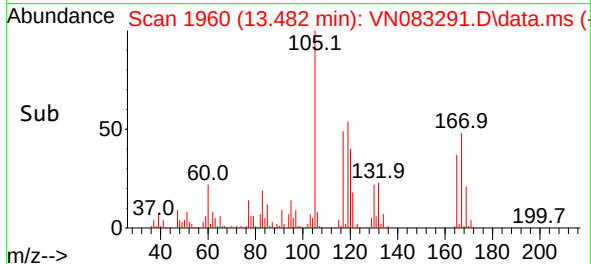
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



Tgt Ion:105 Resp: 404542
Ion Ratio Lower Upper
105 100
120 43.9 21.9 65.8

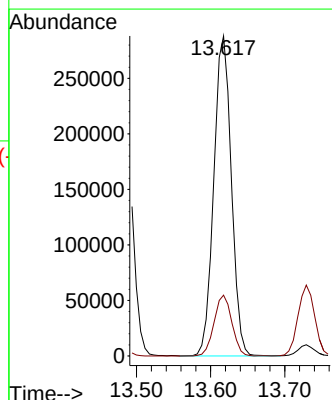
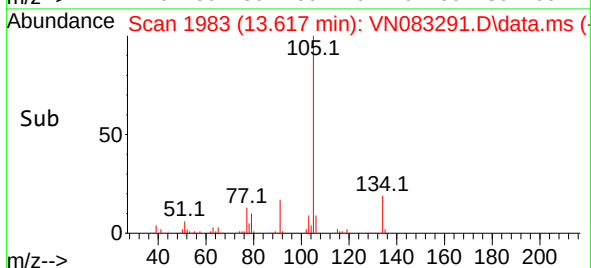
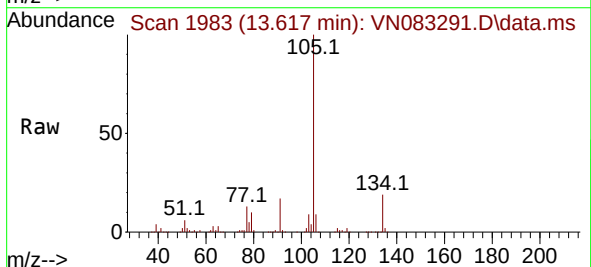
Manual Integrations
APPROVED

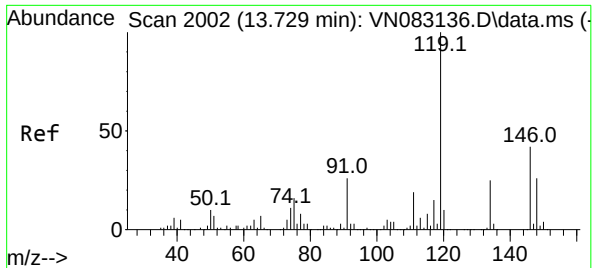
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#85
sec-Butylbenzene
Concen: 49.145 ug/l
RT: 13.617 min Scan# 1983
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

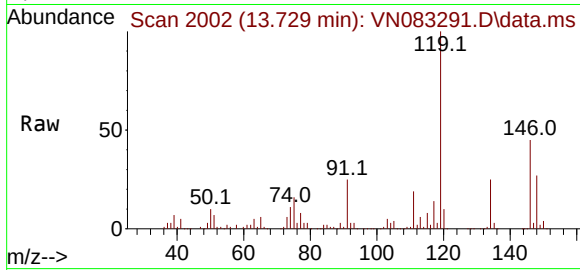
Tgt Ion:105 Resp: 474766
Ion Ratio Lower Upper
105 100
134 19.2 9.8 29.3





#86
p-Isopropyltoluene
Concen: 50.044 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

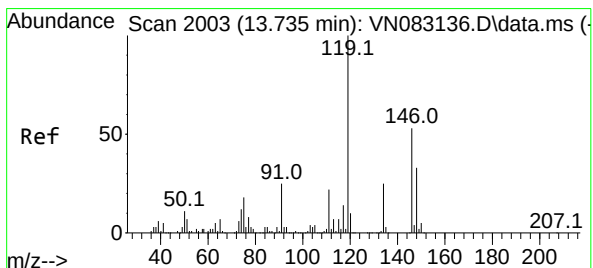
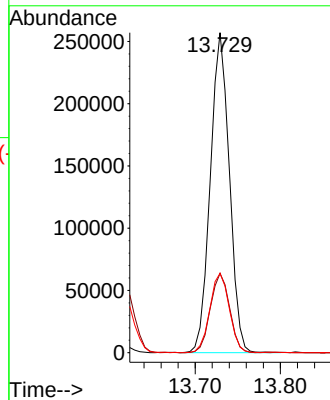
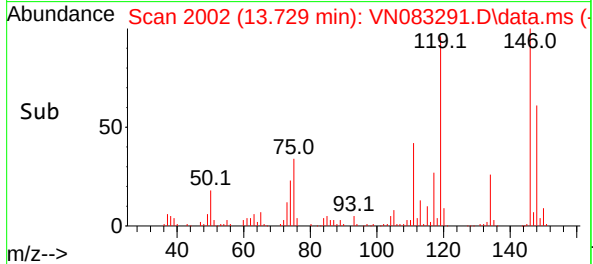
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



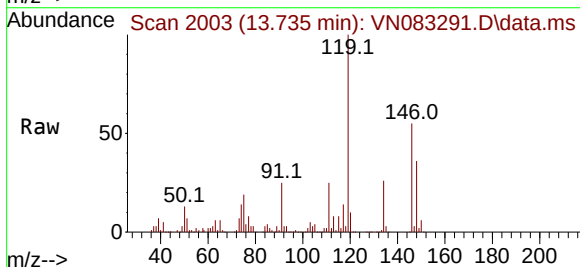
Tgt Ion:119 Resp: 39917
Ion Ratio Lower Upper
119 100
134 25.0 13.0 39.0
91 25.3 12.3 36.9

Manual Integrations
APPROVED

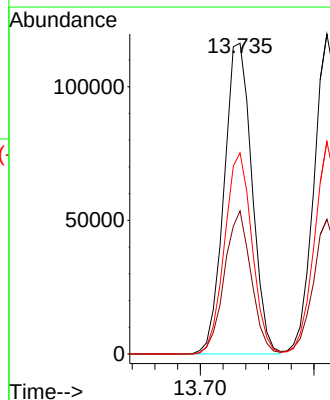
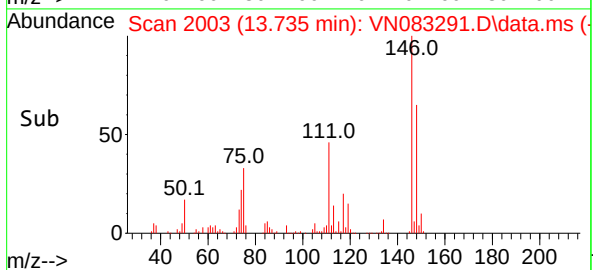
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

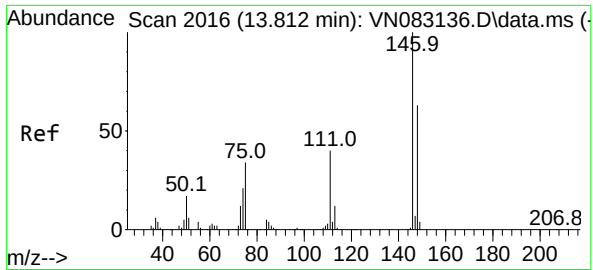


#87
1,3-Dichlorobenzene
Concen: 49.593 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28



Tgt Ion:146 Resp: 197945
Ion Ratio Lower Upper
146 100
111 44.2 20.6 61.9
148 63.7 31.8 95.3





#88

1,4-Dichlorobenzene

Concen: 49.398 ug/l

RT: 13.811 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN083291.D

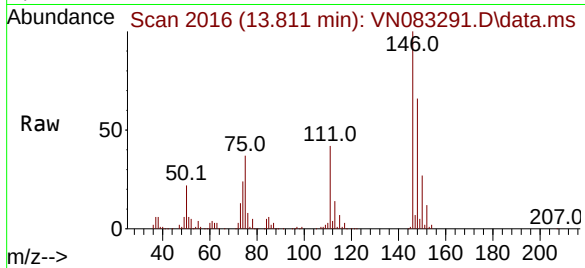
Acq: 14 Aug 2024 10:28

Instrument :

MSVOA_N

ClientSampleId :

924-K1-WP0-0.25-080224MS



Tgt Ion:146 Resp: 198770

Ion Ratio Lower Upper

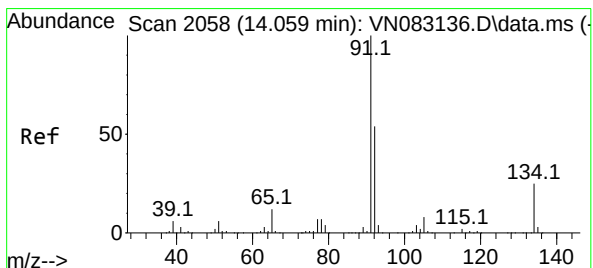
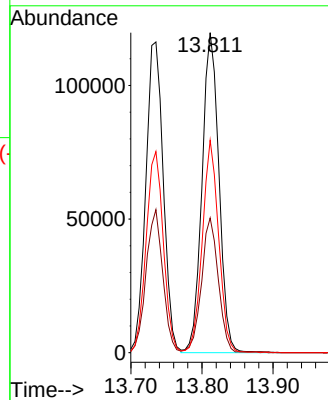
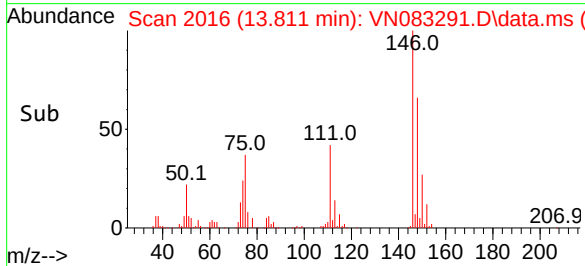
146 100

111 41.2 20.1 60.3

148 64.2 32.2 96.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

#89

n-Butylbenzene

Concen: 47.385 ug/l

RT: 14.058 min Scan# 2058

Delta R.T. -0.000 min

Lab File: VN083291.D

Acq: 14 Aug 2024 10:28

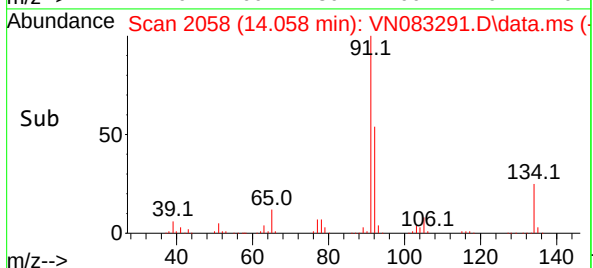
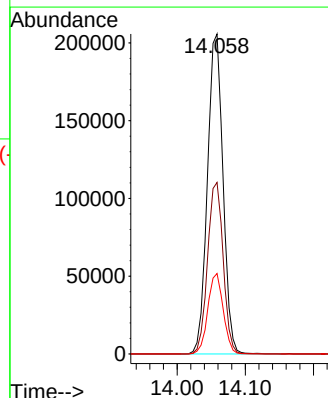
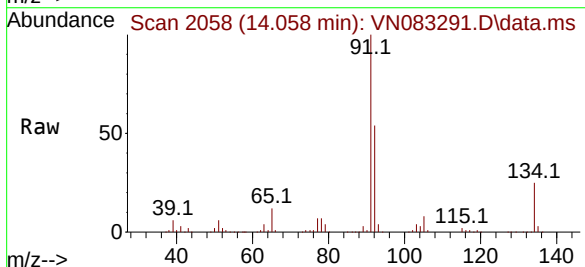
Tgt Ion: 91 Resp: 327504

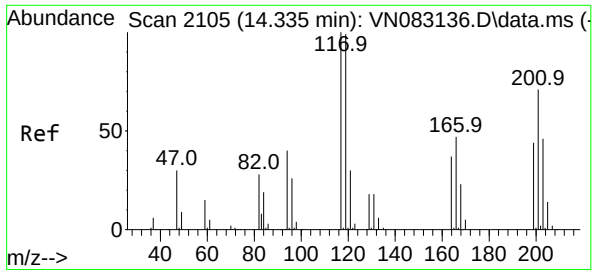
Ion Ratio Lower Upper

91 100

92 53.6 26.1 78.3

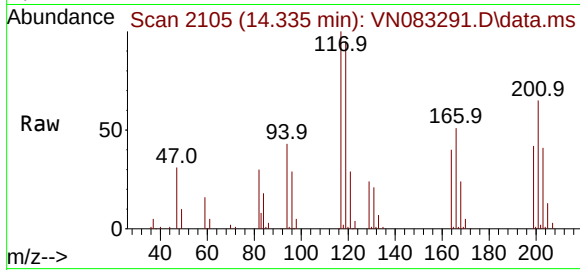
134 24.8 12.1 36.3





#90
Hexachloroethane
Concen: 48.608 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

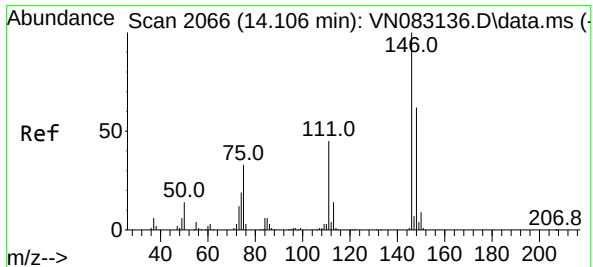
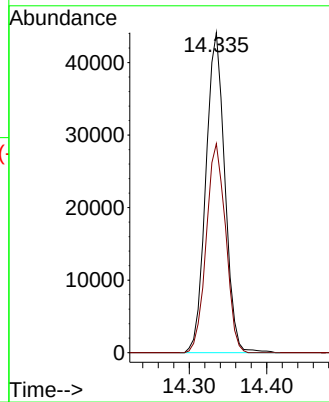
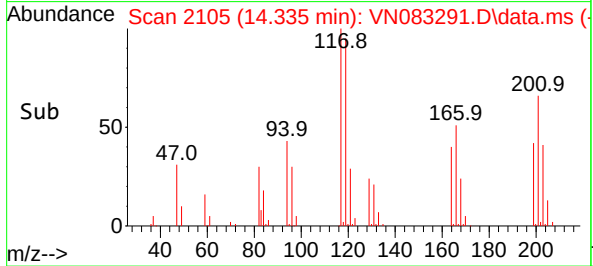
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



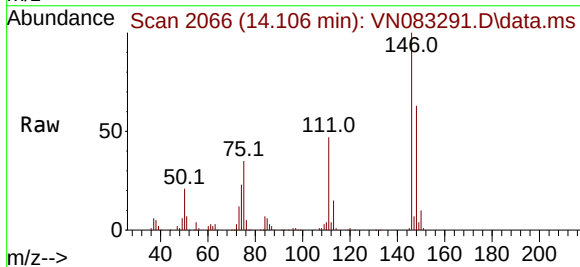
Tgt Ion:117 Resp: 74900
Ion Ratio Lower Upper
117 100
201 66.7 35.8 107.3

Manual Integrations
APPROVED

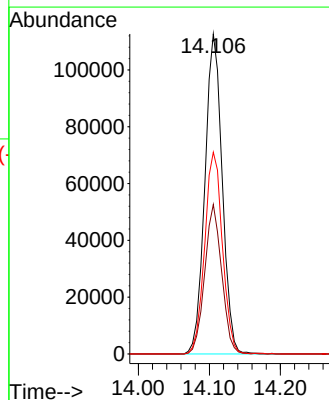
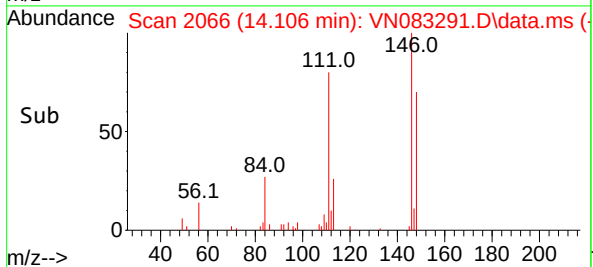
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

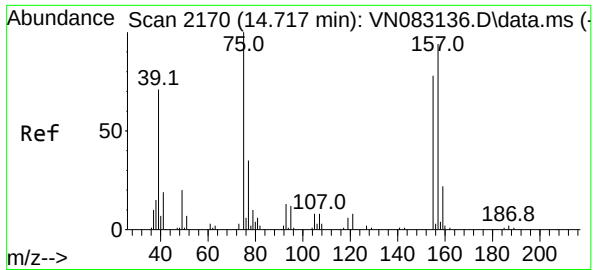


#91
1,2-Dichlorobenzene
Concen: 49.457 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28



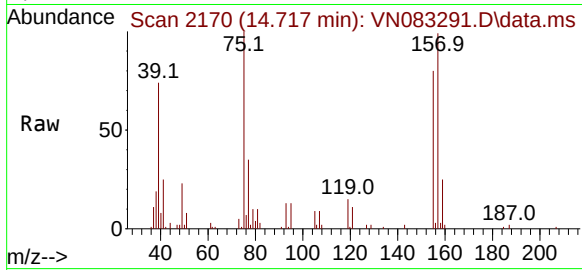
Tgt Ion:146 Resp: 191027
Ion Ratio Lower Upper
146 100
111 45.8 21.4 64.2
148 64.4 32.1 96.5





#92
1,2-Dibromo-3-Chloropropane
Concen: 45.965 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

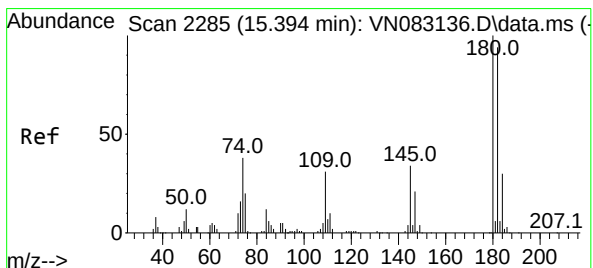
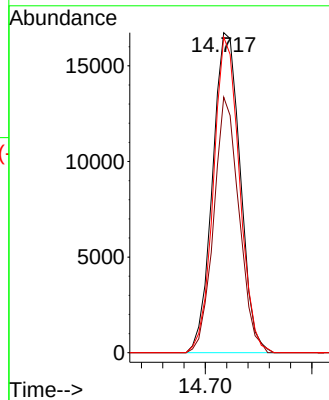
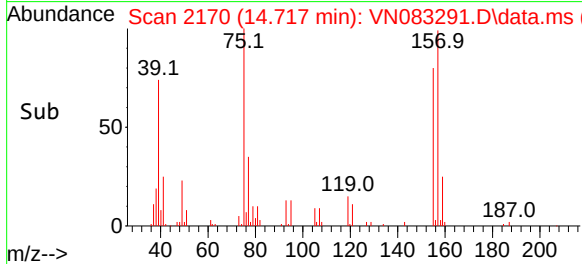
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



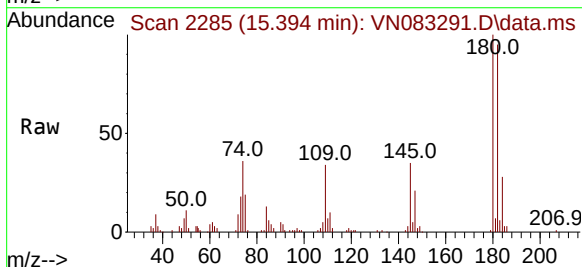
Tgt Ion: 75 Resp: 30124
Ion Ratio Lower Upper
75 100
155 73.2 36.6 109.8
157 92.7 46.9 140.6

Manual Integrations
APPROVED

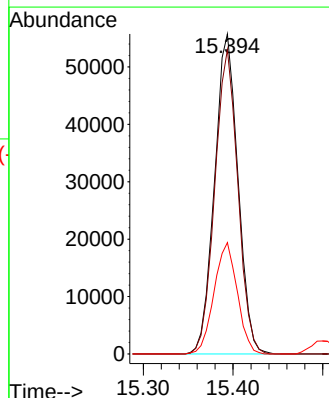
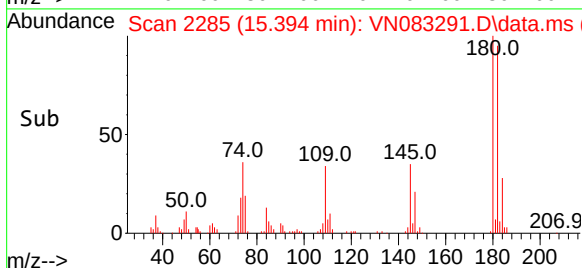
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

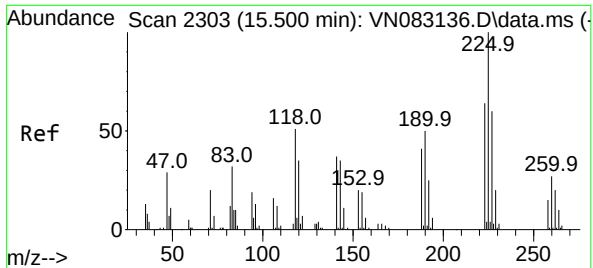


#93
1,2,4-Trichlorobenzene
Concen: 46.598 ug/l
RT: 15.394 min Scan# 2285
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28



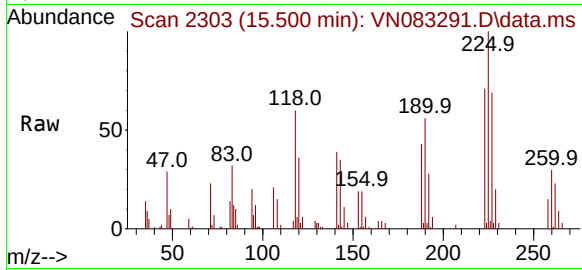
Tgt Ion:180 Resp: 100832
Ion Ratio Lower Upper
180 100
182 93.7 47.3 141.8
145 34.6 15.7 47.1





#94
Hexachlorobutadiene
Concen: 41.088 ug/l
RT: 15.500 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

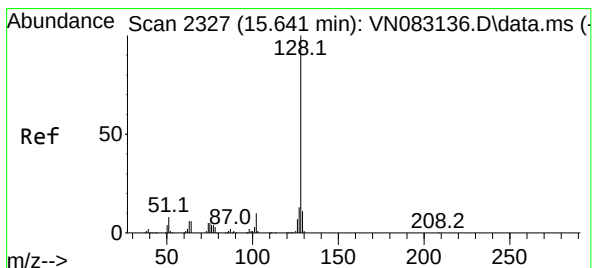
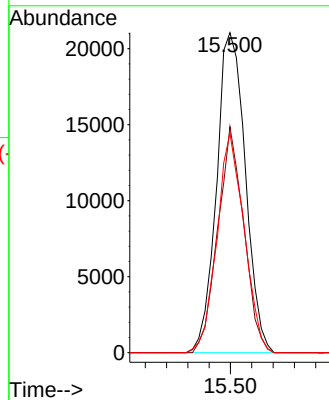
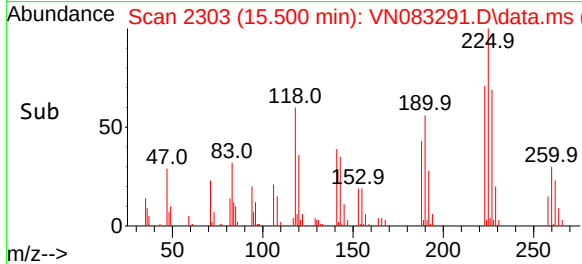
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



Tgt Ion:225 Resp: 3954
Ion Ratio Lower Upper
225 100
223 63.7 31.9 95.7
227 64.7 32.5 97.5

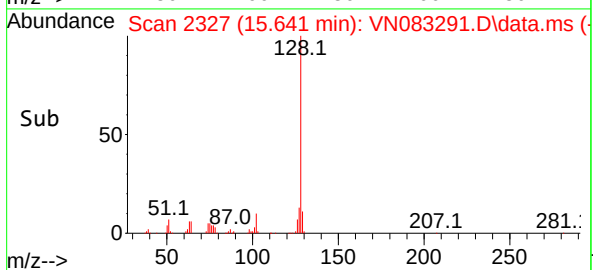
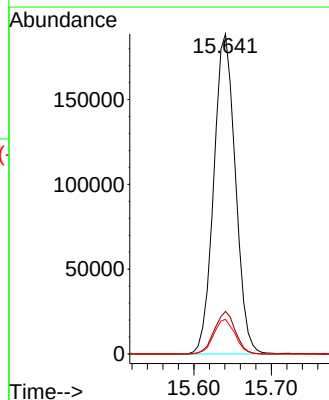
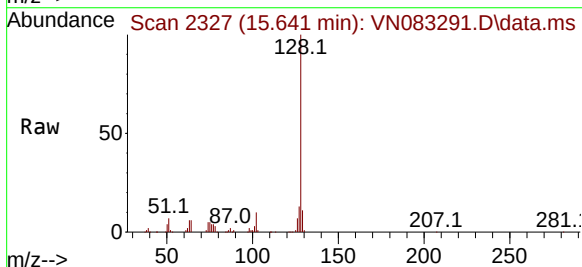
Manual Integrations
APPROVED

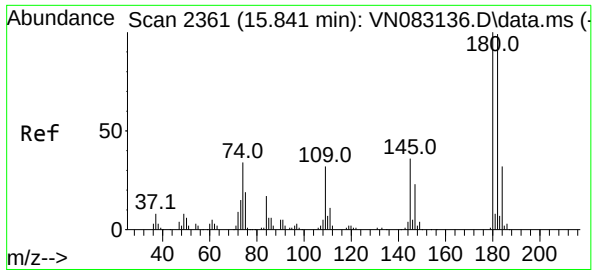
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#95
Naphthalene
Concen: 47.753 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

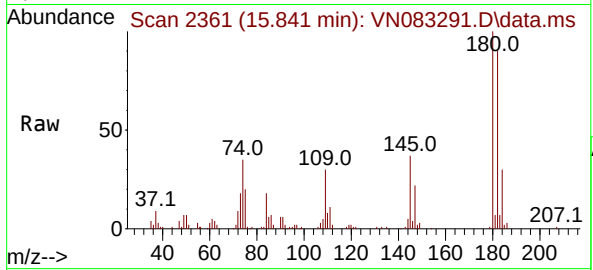
Tgt Ion:128 Resp: 366023
Ion Ratio Lower Upper
128 100
127 12.9 10.6 16.0
129 10.7 8.6 12.8





#96
1,2,3-Trichlorobenzene
Concen: 47.797 ug/l
RT: 15.841 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN083291.D
Acq: 14 Aug 2024 10:28

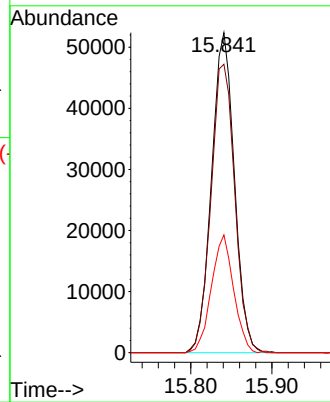
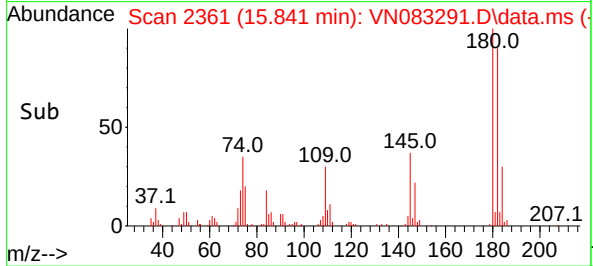
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MS



Tgt Ion:180 Resp: 102340
Ion Ratio Lower Upper
180 100
182 94.1 48.9 146.8
145 35.9 16.8 50.4

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/02/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/02/24
Client Sample ID:	924-K1-WP0-0.25-080224MSD	SDG No.:	P3451
Lab Sample ID:	P3466-03MSD	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group6
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083292.D	1		08/14/24 10:52	VN081324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	47.3		0.21	1.00	ug/L
74-87-3	Chloromethane	49.0		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	50.8		0.34	1.00	ug/L
74-83-9	Bromomethane	43.5		1.40	5.00	ug/L
75-00-3	Chloroethane	52.7		0.56	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	49.8		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	47.6		0.26	1.00	ug/L
67-64-1	Acetone	240		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	41.8		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	51.2		0.16	1.00	ug/L
75-09-2	Methylene Chloride	47.6		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	48.2		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	52.5		0.23	1.00	ug/L
110-82-7	Cyclohexane	43.7		1.60	5.00	ug/L
78-93-3	2-Butanone	240		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	48.4		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	50.3		0.25	1.00	ug/L
67-66-3	Chloroform	53.9		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	52.4		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	42.6		0.19	1.00	ug/L
71-43-2	Benzene	49.0		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	50.9		0.24	1.00	ug/L
79-01-6	Trichloroethene	47.5		0.32	1.00	ug/L
75-27-4	Bromodichloromethane	49.3		0.24	1.00	ug/L
108-88-3	Toluene	49.6		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	51.9		0.21	1.00	ug/L
124-48-1	Dibromochloromethane	51.4		0.18	1.00	ug/L
127-18-4	Tetrachloroethene	43.7		0.25	1.00	ug/L
108-90-7	Chlorobenzene	47.5		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	47.2		0.16	1.00	ug/L

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/02/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/02/24
Client Sample ID:	924-K1-WP0-0.25-080224MSD	SDG No.:	P3451
Lab Sample ID:	P3466-03MSD	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group6
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083292.D	1		08/14/24 10:52	VN081324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
179601-23-1	m/p-Xylenes	93.7		0.31	2.00	ug/L
1330-20-7	Total Xylenes	141		0.45	3.00	ug/L
95-47-6	o-Xylene	47.7		0.14	1.00	ug/L
98-82-8	Isopropylbenzene	46.1		0.13	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	46.0		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	46.9		0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.2		70 (74) - 130 (125)	118%	SPK: 50
1868-53-7	Dibromofluoromethane	52.7		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	53.1		70 (86) - 130 (113)	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.5		70 (77) - 130 (121)	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	154000	8.229			
540-36-3	1,4-Difluorobenzene	282000	9.1			
3114-55-4	Chlorobenzene-d5	252000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	120000	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 OC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
 Data File : VN083292.D
 Acq On : 14 Aug 2024 10:52
 Operator : JC\MD
 Sample : P3466-03MSD
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 924-K1-WP0-0.25-080224MSD

Quant Time: Aug 14 14:15:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 06:30:41 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
 Supervised By :Semsettin Yesilyurt 08/16/2024

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

Internal Standards						
1) Pentafluorobenzene	8.229	168	154428	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	282107	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	251921	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	119630	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	130165	59.217	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 118.440%			
35) Dibromofluoromethane	8.171	113	92840	52.724	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.440%			
50) Toluene-d8	10.565	98	348630	53.077	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.160%			
62) 4-Bromofluorobenzene	12.847	95	134539	52.539	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 105.080%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	82803	47.283	ug/l	99
3) Chloromethane	2.365	50	87933	49.045	ug/l	99
4) Vinyl Chloride	2.512	62	92901	50.781	ug/l	99
5) Bromomethane	2.942	94	49331	43.457	ug/l	98
6) Chloroethane	3.112	64	60341	52.719	ug/l	98
7) Trichlorofluoromethane	3.489	101	157585	52.142	ug/l	99
8) Diethyl Ether	3.959	74	55923	49.727	ug/l	86
9) 1,1,2-Trichlorotrifluo...	4.365	101	82970	49.794	ug/l	97
10) Methyl Iodide	4.583	142	88739	40.486	ug/l	98
11) Tert butyl alcohol	5.530	59	115159	252.095	ug/l	99
12) 1,1-Dichloroethene	4.341	96	81479	47.596	ug/l	92
13) Acrolein	4.183	56	65329	219.430	ug/l	100
14) Allyl chloride	5.024	41	129406	40.002	ug/l	93
15) Acrylonitrile	5.718	53	240455	255.942	ug/l	98
16) Acetone	4.430	43	205914	239.403	ug/l	99
17) Carbon Disulfide	4.712	76	209479	41.821	ug/l	100
18) Methyl Acetate	5.024	43	107105	41.795	ug/l #	89
19) Methyl tert-butyl Ether	5.794	73	316133	51.163	ug/l	98
20) Methylene Chloride	5.277	84	94141	47.558	ug/l	89
21) trans-1,2-Dichloroethene	5.788	96	85230	48.172	ug/l	91
22) Diisopropyl ether	6.671	45	315055	51.811	ug/l	97
23) Vinyl Acetate	6.606	43	1247461	200.144	ug/l	96
24) 1,1-Dichloroethane	6.565	63	174125	52.534	ug/l	99
25) 2-Butanone	7.482	43	318146	240.896	ug/l #	90
26) 2,2-Dichloropropane	7.488	77	71957	23.377	ug/l	92
27) cis-1,2-Dichloroethene	7.482	96	107293	50.254	ug/l	86
28) Bromochloromethane	7.812	49	69489	51.301	ug/l	85
29) Tetrahydrofuran	7.841	42	221071	258.947	ug/l	89
30) Chloroform	7.965	83	185692	53.925	ug/l	97
31) Cyclohexane	8.259	56	142286	43.680	ug/l	96
32) 1,1,1-Trichloroethane	8.171	97	170836	52.413	ug/l	95
36) 1,1-Dichloropropene	8.371	75	124531	46.751	ug/l	99
37) Ethyl Acetate	7.559	43	110479	37.043	ug/l #	93
38) Carbon Tetrachloride	8.365	117	145214	48.402	ug/l	97
39) Methylcyclohexane	9.600	83	139487	42.635	ug/l	95
40) Benzene	8.606	78	388435	48.951	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
 Data File : VN083292.D
 Acq On : 14 Aug 2024 10:52
 Operator : JC\MD
 Sample : P3466-03MSD
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 924-K1-WP0-0.25-080224MSD

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
 Supervised By :Semsettin Yesilyurt 08/16/2024

Quant Time: Aug 14 14:15:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 06:30:41 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.782	41	75298	44.404	ug/l	93
42) 1,2-Dichloroethane	8.671	62	147040	50.868	ug/l	98
43) Isopropyl Acetate	8.688	43	219658	41.971	ug/l #	95
44) Trichloroethene	9.353	130	89740	47.513	ug/l	98
45) 1,2-Dichloropropane	9.623	63	95113	50.496	ug/l	99
46) Dibromomethane	9.706	93	68672	50.935	ug/l	99
47) Bromodichloromethane	9.888	83	149169	49.276	ug/l	97
48) Methyl methacrylate	9.682	41	111391	45.176	ug/l	92
49) 1,4-Dioxane	9.694	88	39176	880.677	ug/l	96
51) 4-Methyl-2-Pentanone	10.447	43	694864	246.380	ug/l	93
52) Toluene	10.629	92	248571	49.578	ug/l	98
53) t-1,3-Dichloropropene	10.835	75	136201	43.800	ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	140574	42.502	ug/l	92
55) 1,1,2-Trichloroethane	11.017	97	93248	51.897	ug/l	99
56) Ethyl methacrylate	10.876	69	164293	48.503	ug/l	88
57) 1,3-Dichloropropane	11.165	76	162423	50.716	ug/l	99
59) 2-Hexanone	11.194	43	521980	239.233	ug/l	94
60) Dibromochloromethane	11.359	129	111659	51.400	ug/l	98
61) 1,2-Dibromoethane	11.470	107	94311	49.966	ug/l	98
64) Tetrachloroethene	11.106	164	72842	43.660	ug/l	95
65) Chlorobenzene	11.894	112	264480	47.507	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	93453	47.597	ug/l	99
67) Ethyl Benzene	11.964	91	482297	47.225	ug/l	100
68) m/p-Xylenes	12.070	106	358520	93.715	ug/l	98
69) o-Xylene	12.400	106	179973	47.699	ug/l	98
70) Styrene	12.412	104	300930	47.487	ug/l	98
71) Bromoform	12.582	173	72932	49.032	ug/l #	99
73) Isopropylbenzene	12.694	105	461160	46.088	ug/l	99
74) N-amyl acetate	12.494	43	175088	35.773	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.935	83	135499	47.878	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	106098m	40.409	ug/l	
77) Bromobenzene	12.982	156	107457	48.344	ug/l	100
78) n-propylbenzene	13.035	91	529574	45.963	ug/l	100
79) 2-Chlorotoluene	13.123	91	340781	46.651	ug/l	96
80) 1,3,5-Trimethylbenzene	13.170	105	389428	46.486	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.735	75	37178	30.801	ug/l	97
82) 4-Chlorotoluene	13.223	91	340987	46.537	ug/l	96
83) tert-Butylbenzene	13.441	119	344950	46.497	ug/l	100
84) 1,2,4-Trimethylbenzene	13.482	105	394404	46.717	ug/l	100
85) sec-Butylbenzene	13.617	105	462695	45.708	ug/l	100
86) p-Isopropyltoluene	13.729	119	384433	45.994	ug/l	97
87) 1,3-Dichlorobenzene	13.735	146	192209	45.956	ug/l	98
88) 1,4-Dichlorobenzene	13.811	146	193865	45.977	ug/l	98
89) n-Butylbenzene	14.058	91	317014	43.772	ug/l	98
90) Hexachloroethane	14.335	117	74049	45.856	ug/l	93
91) 1,2-Dichlorobenzene	14.106	146	189753	46.883	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.723	75	30084	43.807	ug/l	99
93) 1,2,4-Trichlorobenzene	15.394	180	99622	43.935	ug/l	98
94) Hexachlorobutadiene	15.500	225	39885	39.552	ug/l	98
95) Naphthalene	15.641	128	365990	45.567	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	101419	45.203	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083292.D
Acq On : 14 Aug 2024 10:52
Operator : JC\MD
Sample : P3466-03MSD
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 53 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

Quant Time: Aug 14 14:15:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

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

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

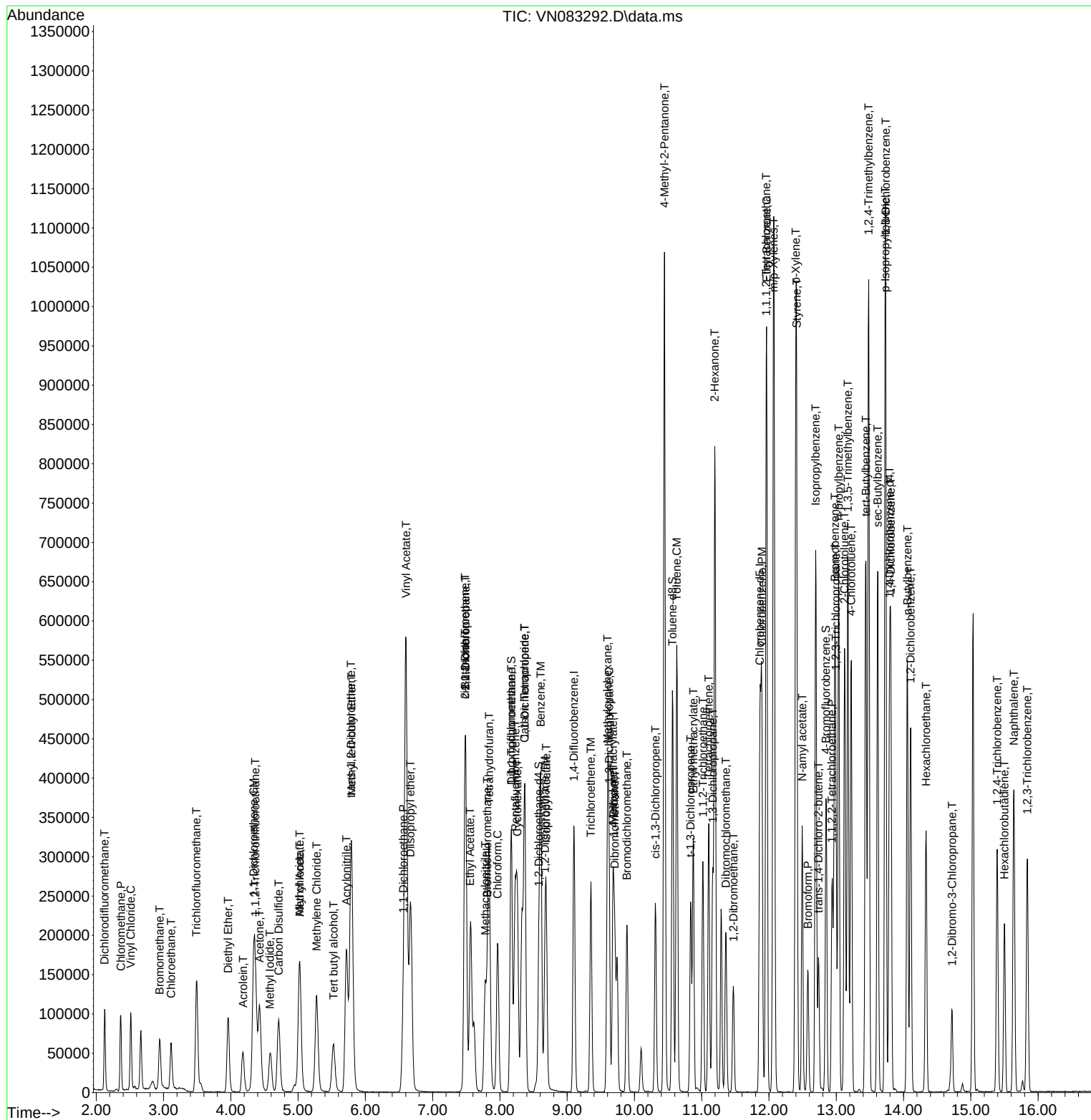
```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\  
Data File : VN083292.D  
Acq On    : 14 Aug 2024  10:52  
Operator  : JC\MD  
Sample    : P3466-03MSD  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 53   Sample Multiplier: 1
```

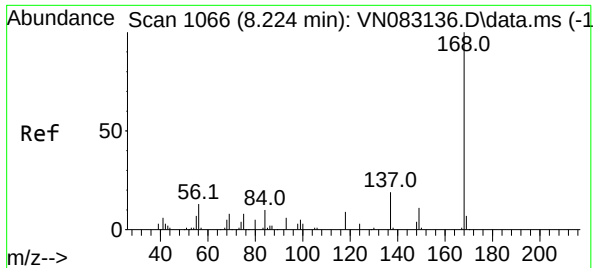
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

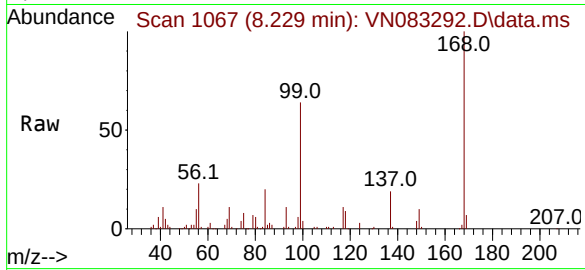
Quant Time: Aug 14 14:15:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1066
Delta R.T. 0.005 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

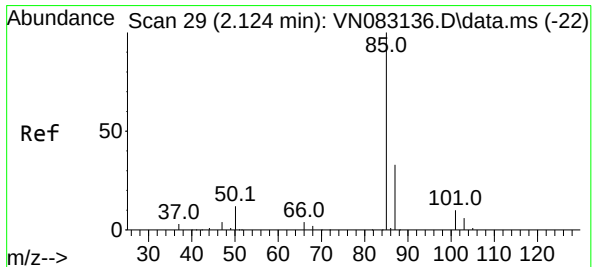
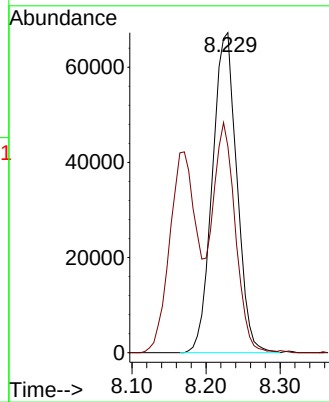
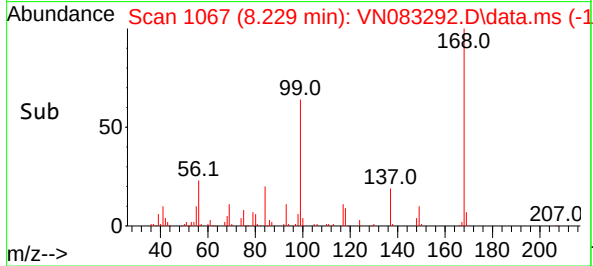
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD



Tgt Ion:168 Resp: 154428
Ion Ratio Lower Upper
168 100
99 63.8 48.2 72.4

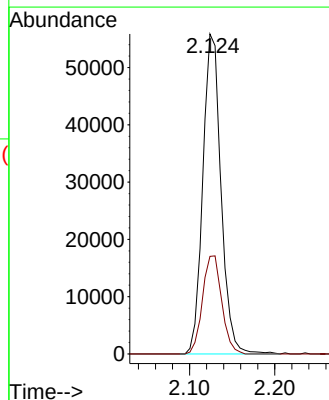
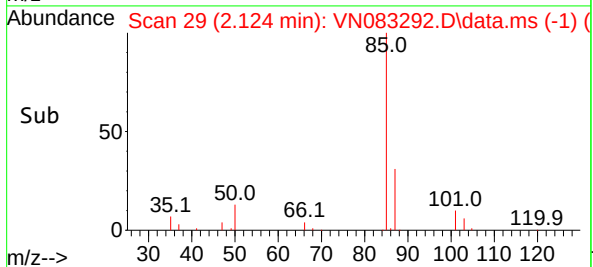
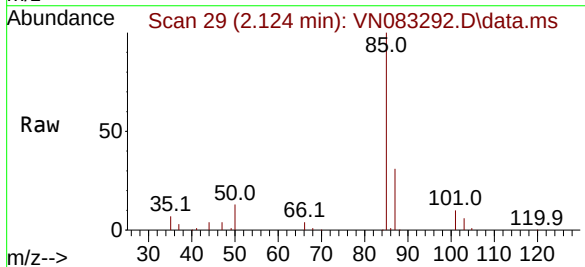
Manual Integrations
APPROVED

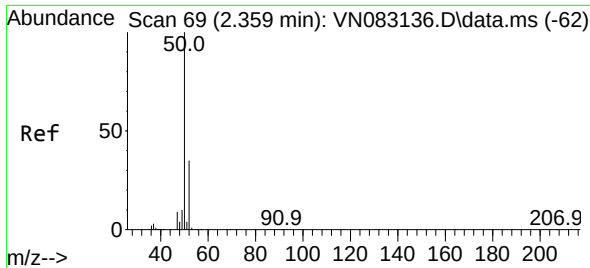
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#2
Dichlorodifluoromethane
Concen: 47.283 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

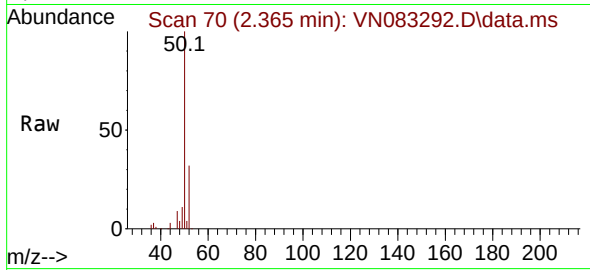
Tgt Ion: 85 Resp: 82803
Ion Ratio Lower Upper
85 100
87 30.5 15.7 47.0





#3
Chloromethane
Concen: 49.045 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

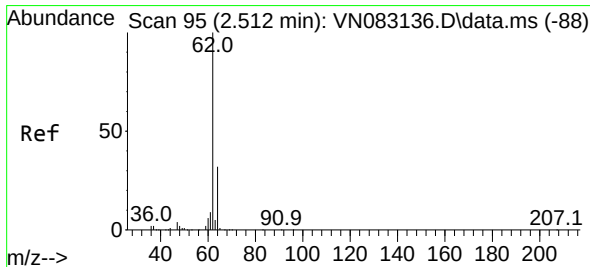
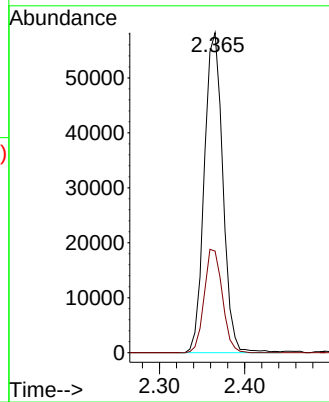
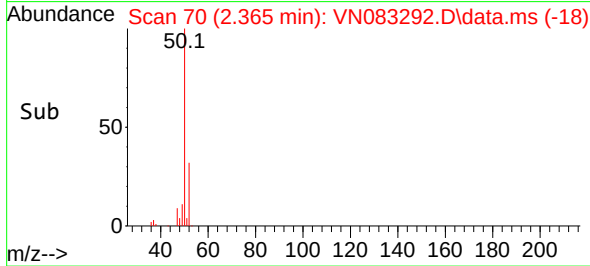
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD



Tgt Ion: 50 Resp: 87933
Ion Ratio Lower Upper
50 100
52 31.8 25.0 37.4

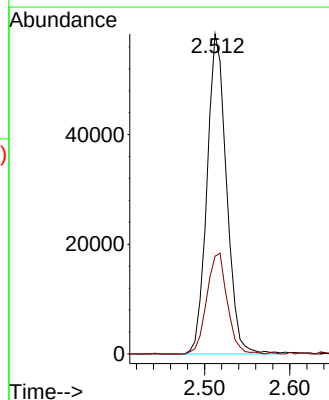
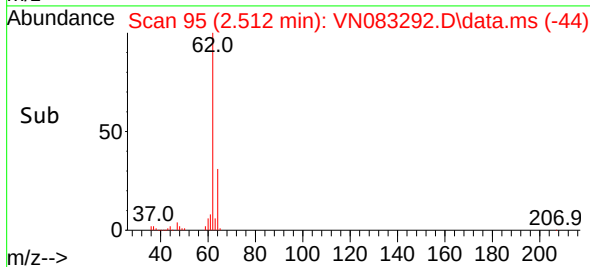
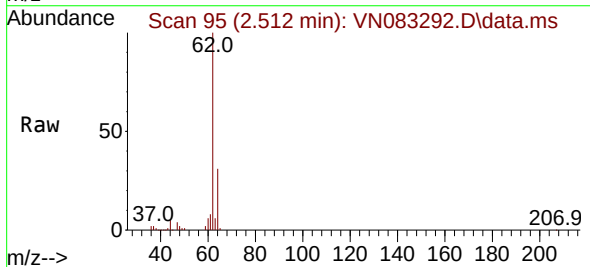
Manual Integrations
APPROVED

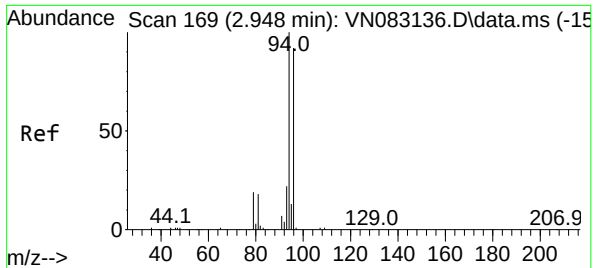
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#4
Vinyl Chloride
Concen: 50.781 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

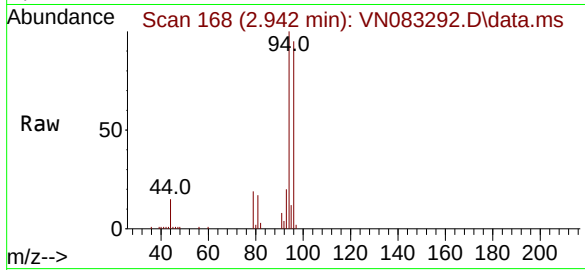
Tgt Ion: 62 Resp: 92901
Ion Ratio Lower Upper
62 100
64 30.5 25.0 37.6





#5
Bromomethane
Concen: 43.457 ug/l
RT: 2.942 min Scan# 168
Delta R.T. -0.006 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

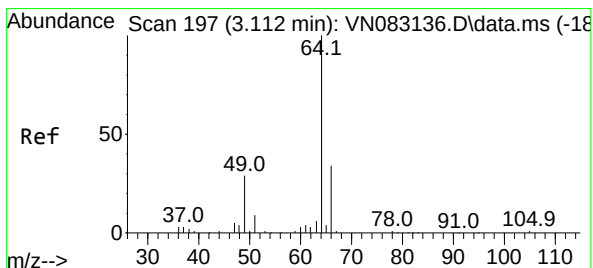
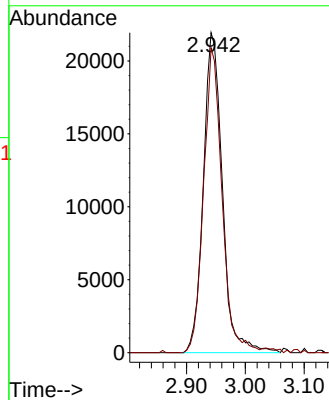
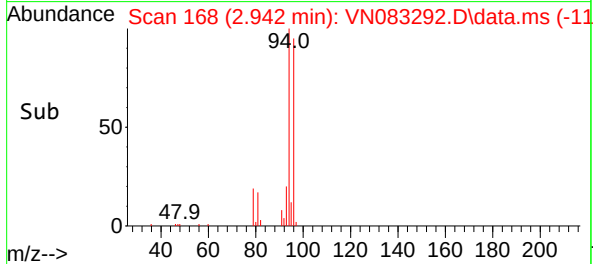
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD



Tgt Ion: 94 Resp: 4933
Ion Ratio Lower Upper
94 100
96 95.3 78.0 117.0

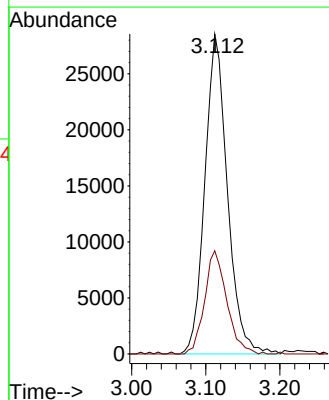
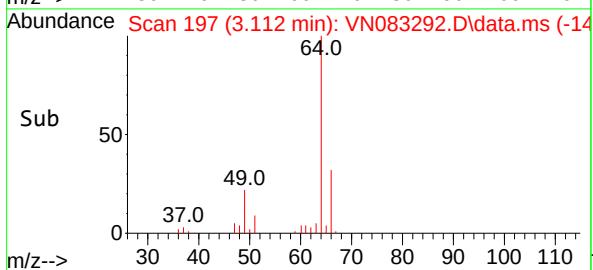
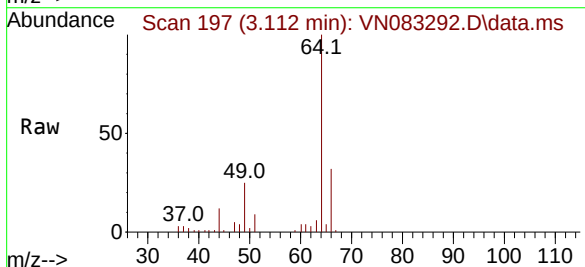
Manual Integrations
APPROVED

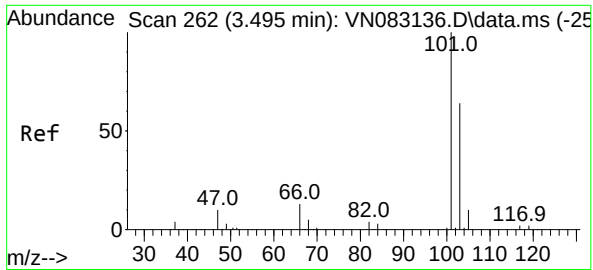
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#6
Chloroethane
Concen: 52.719 ug/l
RT: 3.112 min Scan# 197
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

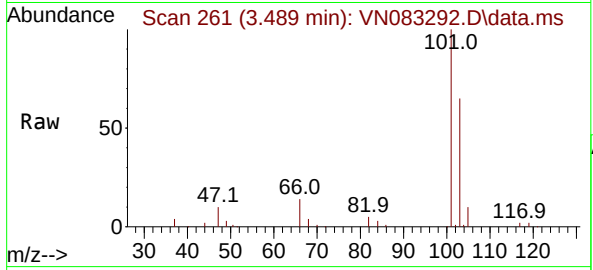
Tgt Ion: 64 Resp: 60341
Ion Ratio Lower Upper
64 100
66 32.3 26.6 40.0





#7
Trichlorofluoromethane
Concen: 52.142 ug/l
RT: 3.489 min Scan# 261
Delta R.T. -0.006 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

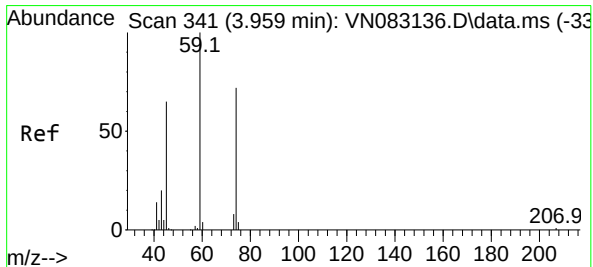
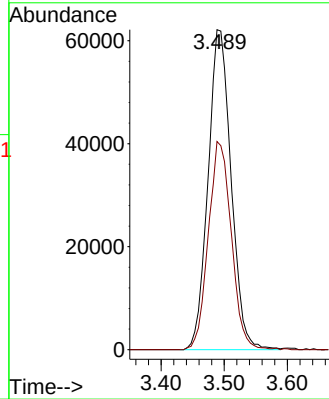
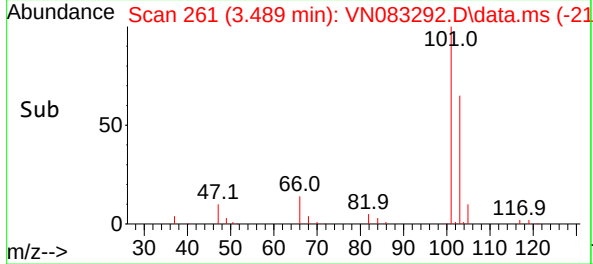
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD



Tgt Ion:101 Resp: 15758
Ion Ratio Lower Upper
101 100
103 65.1 52.7 79.1

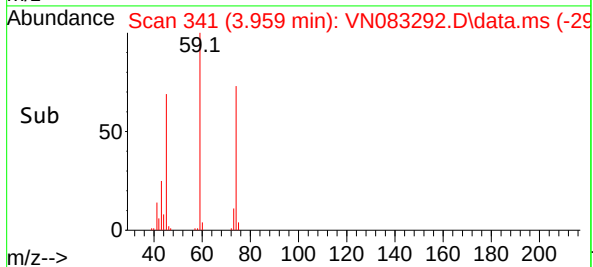
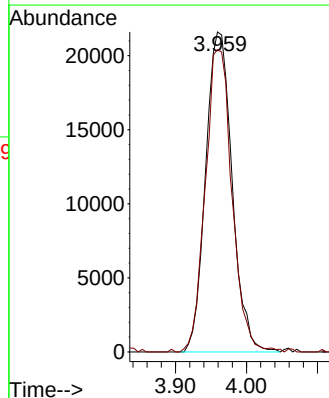
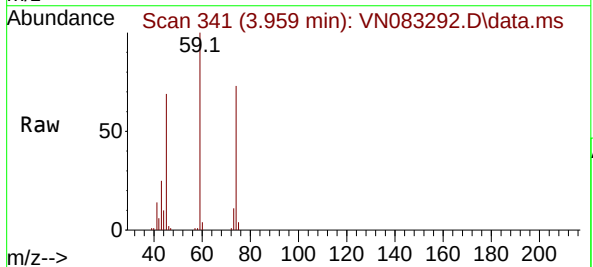
Manual Integrations
APPROVED

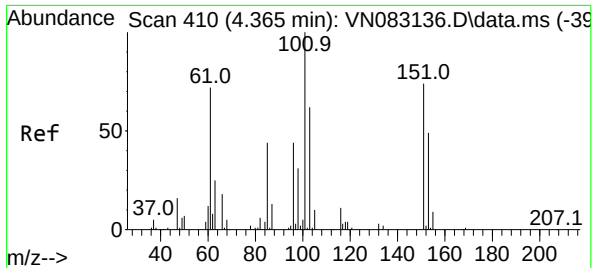
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#8
Diethyl Ether
Concen: 49.727 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 74 Resp: 55923
Ion Ratio Lower Upper
74 100
45 95.6 55.5 166.3





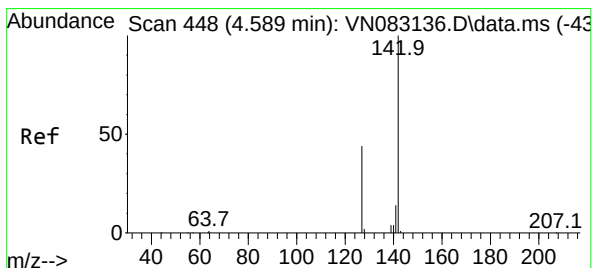
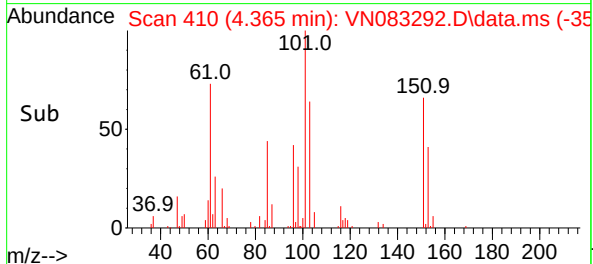
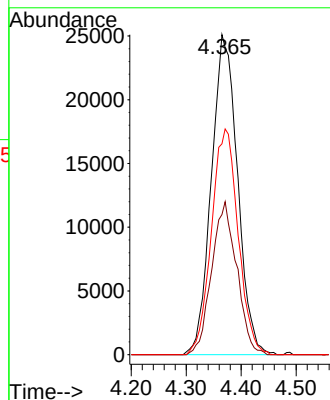
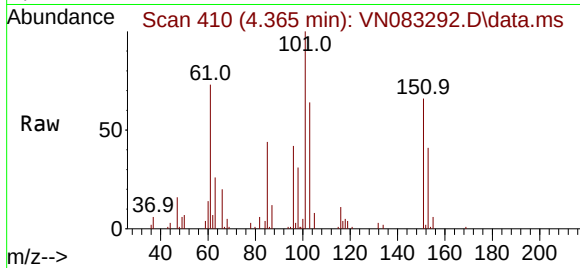
#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.794 ug/l
RT: 4.365 min Scan# 410
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Tgt Ion	Ratio	Lower	Upper
101	100		
85	45.9	38.3	57.5
151	72.1	59.3	88.9

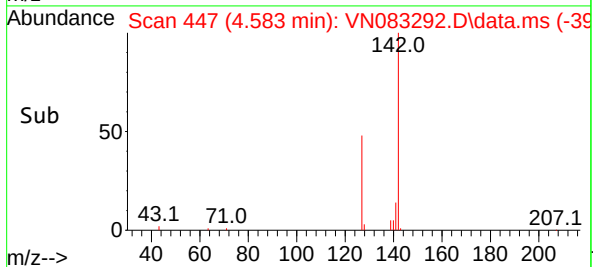
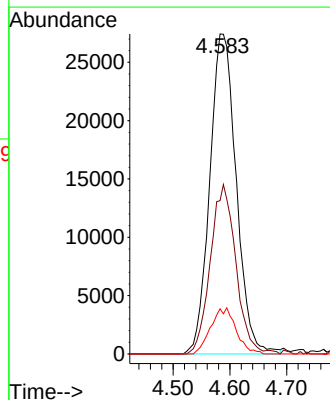
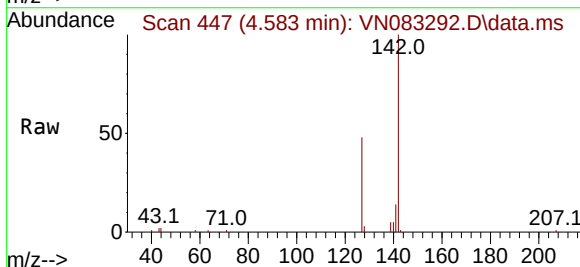
Manual Integrations
APPROVED

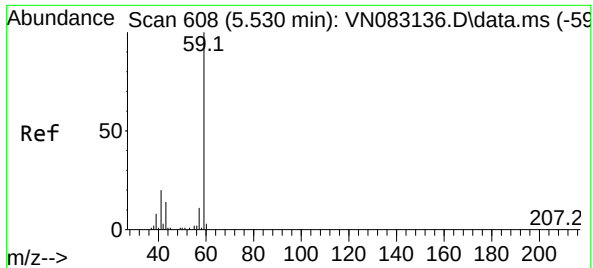
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#10
Methyl Iodide
Concen: 40.486 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.006 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion	Ratio	Lower	Upper
142	100		
127	47.9	37.5	56.3
141	14.1	13.1	19.7





#11

Tert butyl alcohol

Concen: 252.095 ug/l

RT: 5.530 min Scan# 608

Delta R.T. -0.000 min

Lab File: VN083292.D

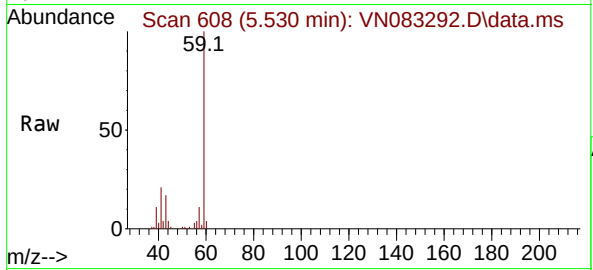
Acq: 14 Aug 2024 10:52

Instrument :

MSVOA_N

ClientSampleId :

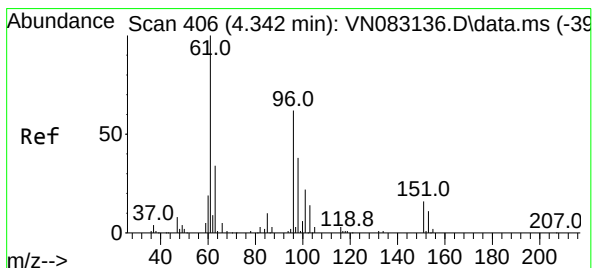
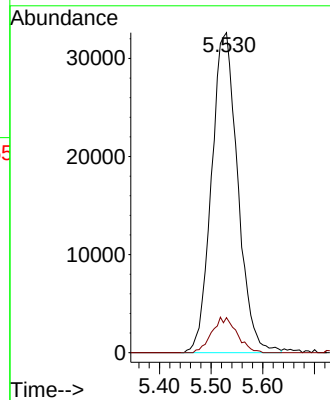
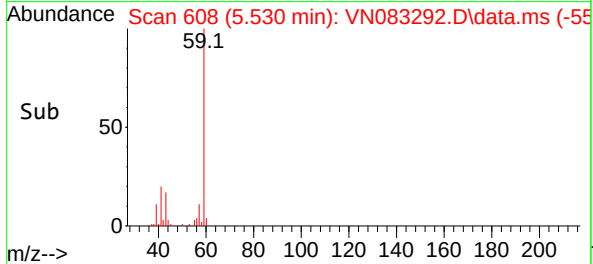
924-K1-WP0-0.25-080224MSD



Tgt Ion:	59	Resp:	115159
Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.9	13.3

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#12

1,1-Dichloroethene

Concen: 47.596 ug/l

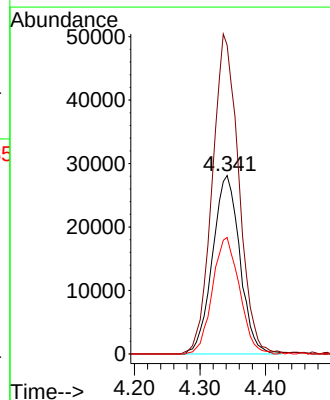
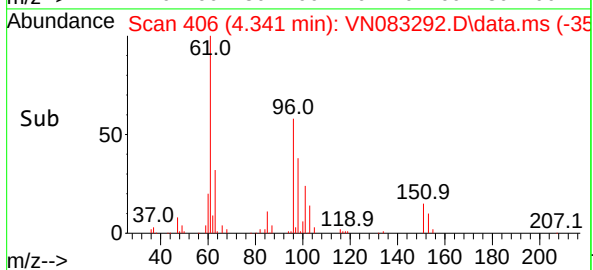
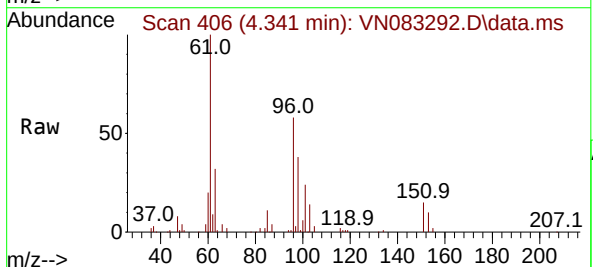
RT: 4.341 min Scan# 406

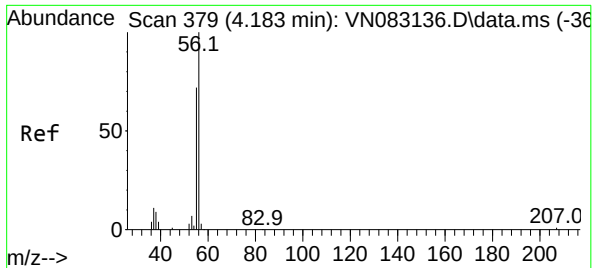
Delta R.T. -0.000 min

Lab File: VN083292.D

Acq: 14 Aug 2024 10:52

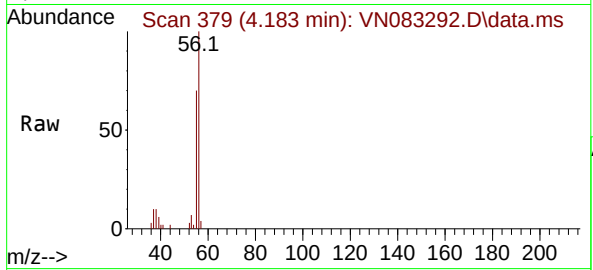
Tgt Ion:	96	Resp:	81479
Ion	Ratio	Lower	Upper
96	100		
61	173.1	149.7	224.5
98	65.3	50.1	75.1





#13
Acrolein
Concen: 219.430 ug/l
RT: 4.183 min Scan# 379
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

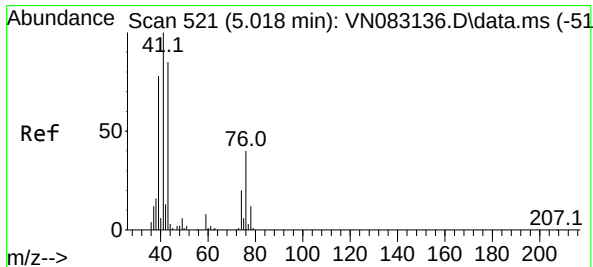
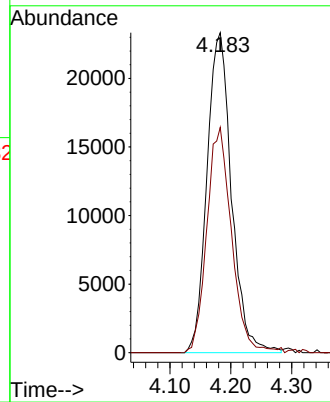
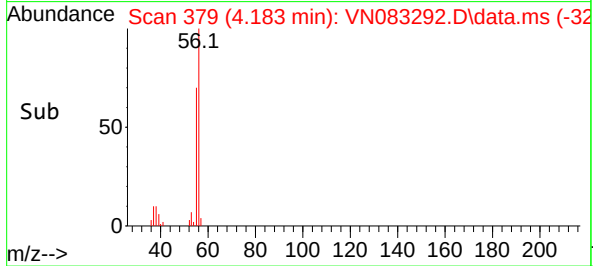
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD



Tgt Ion: 56 Resp: 65329
Ion Ratio Lower Upper
56 100
55 70.9 56.4 84.6

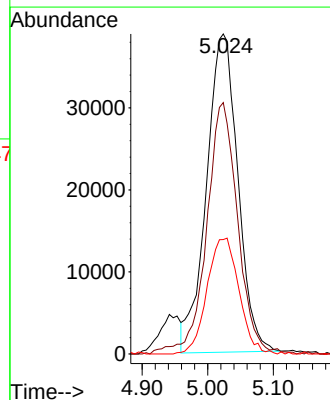
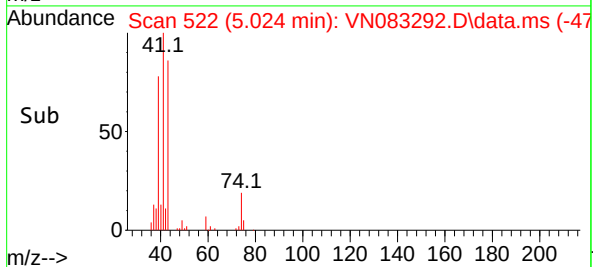
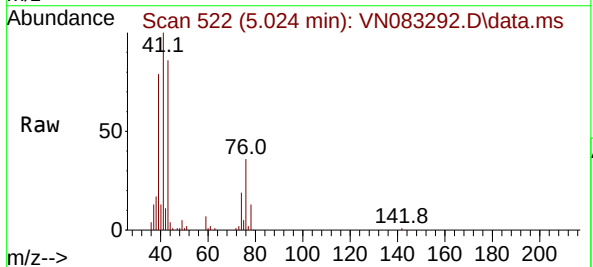
Manual Integrations
APPROVED

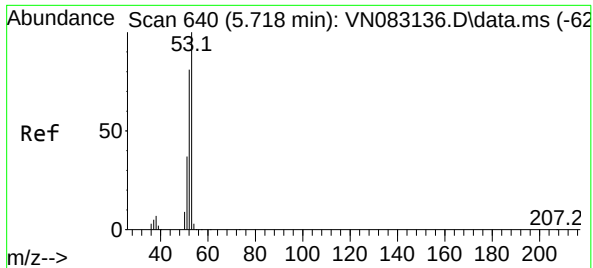
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#14
Allyl chloride
Concen: 40.002 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

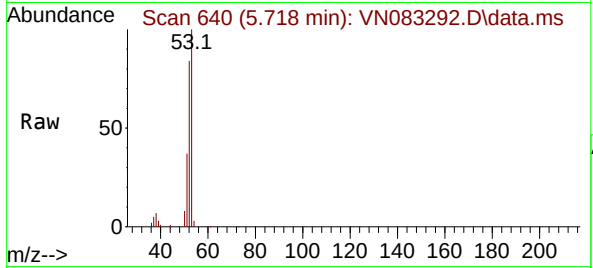
Tgt Ion: 41 Resp: 129406
Ion Ratio Lower Upper
41 100
39 78.2 67.8 101.6
76 36.8 25.8 38.8





#15
Acrylonitrile
Concen: 255.942 ug/l
RT: 5.718 min Scan# 640
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

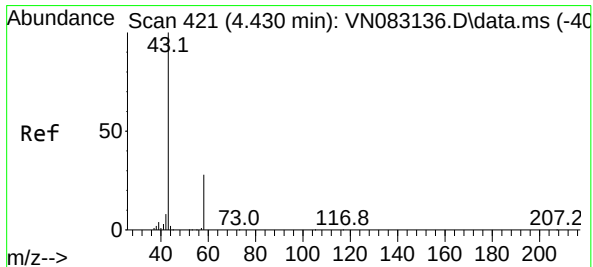
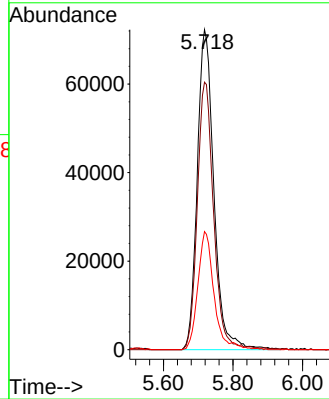
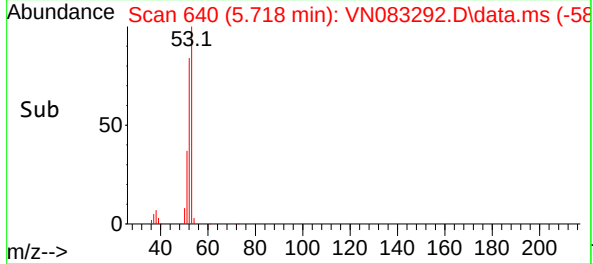
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD



Tgt Ion: 53 Resp: 240458
Ion Ratio Lower Upper
53 100
52 81.4 66.6 100.0
51 35.8 30.1 45.1

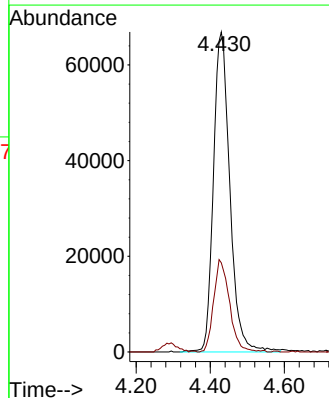
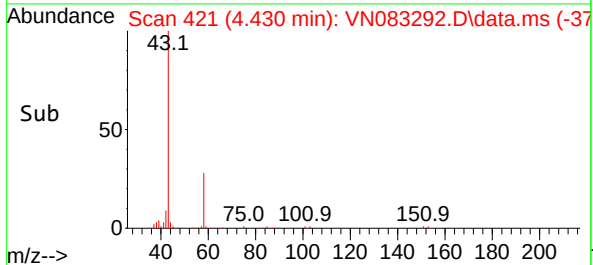
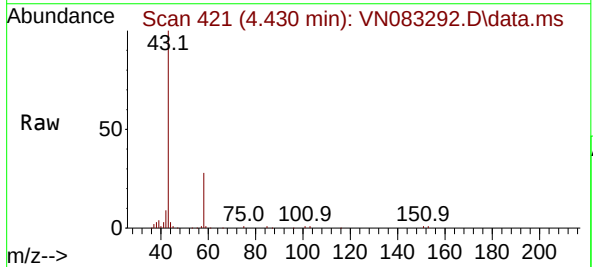
Manual Integrations
APPROVED

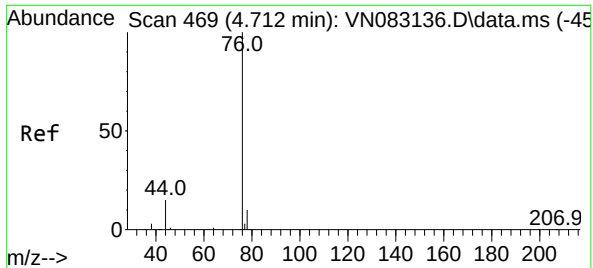
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#16
Acetone
Concen: 239.403 ug/l
RT: 4.430 min Scan# 421
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

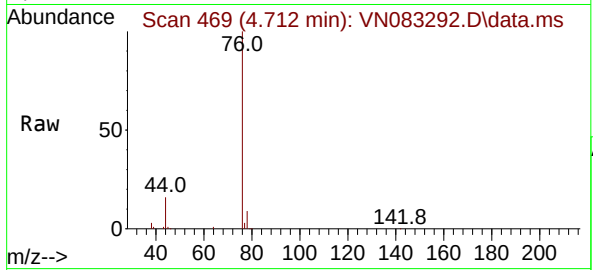
Tgt Ion: 43 Resp: 205914
Ion Ratio Lower Upper
43 100
58 27.9 21.8 32.6





#17
Carbon Disulfide
Concen: 41.821 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

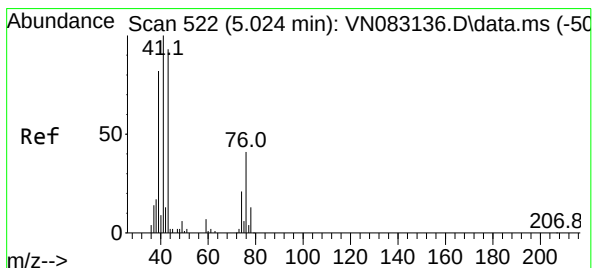
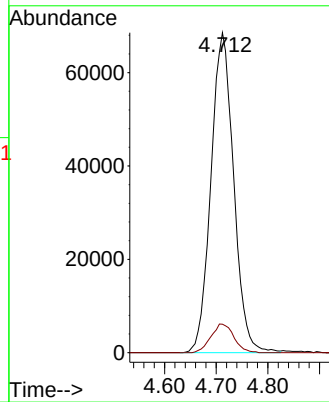
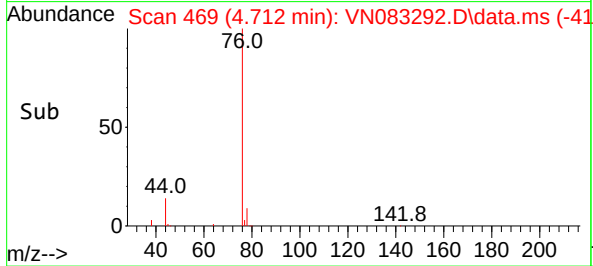
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD



Tgt Ion: 76 Resp: 209479
Ion Ratio Lower Upper
76 100
78 8.9 7.2 10.8

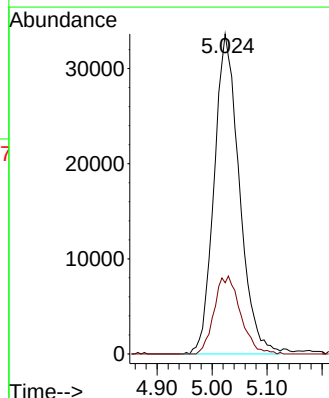
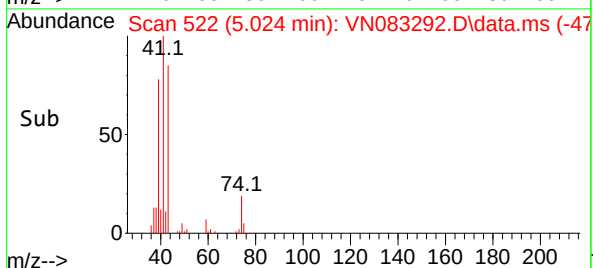
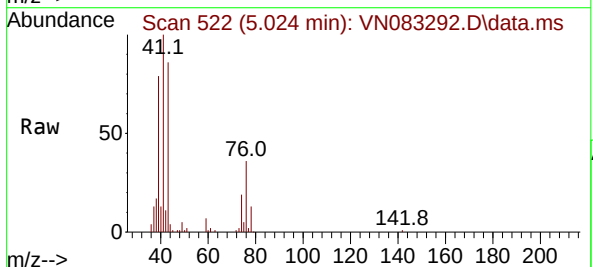
Manual Integrations
APPROVED

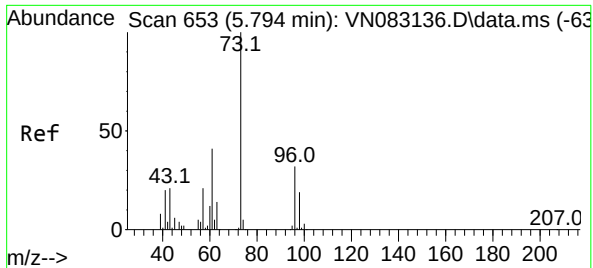
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#18
Methyl Acetate
Concen: 41.795 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 43 Resp: 107105
Ion Ratio Lower Upper
43 100
74 25.4 16.3 24.5#





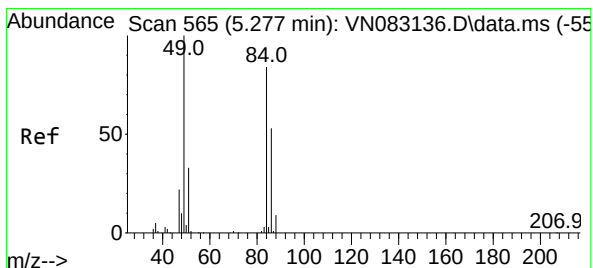
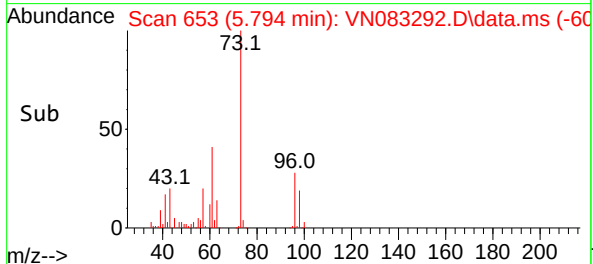
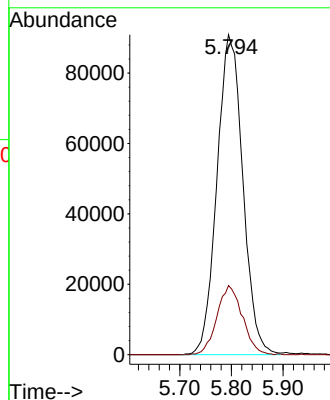
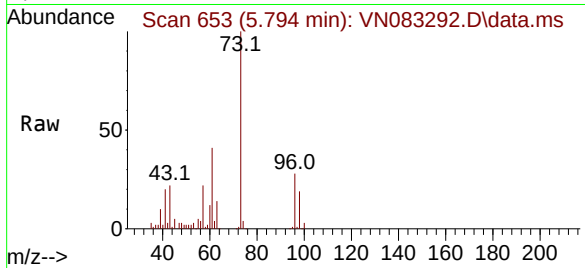
#19
Methyl tert-butyl Ether
Concen: 51.163 ug/l
RT: 5.794 min Scan# 653
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD

Tgt Ion: 73 Resp: 31613
Ion Ratio Lower Upper
73 100
57 21.6 17.9 26.9

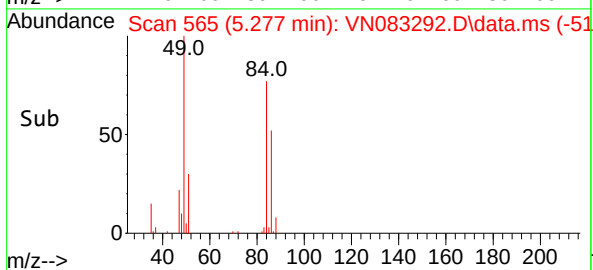
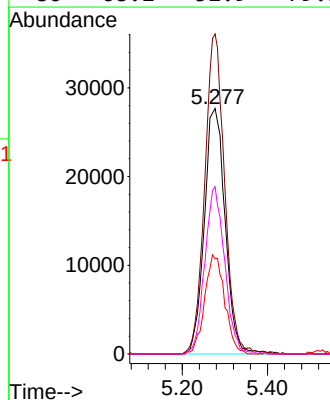
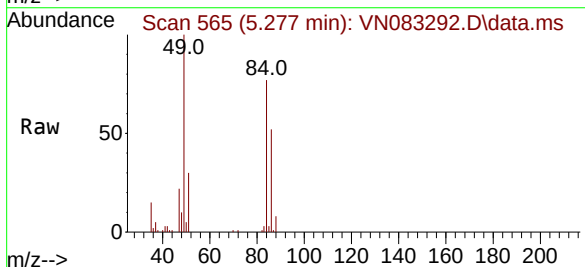
Manual Integrations
APPROVED

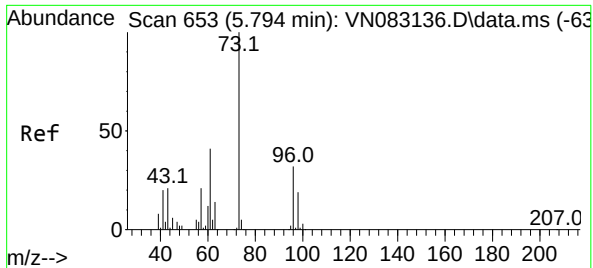
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#20
Methylene Chloride
Concen: 47.558 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

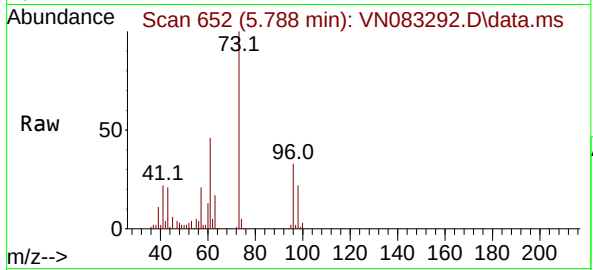
Tgt Ion: 84 Resp: 94141
Ion Ratio Lower Upper
84 100
49 130.4 119.6 179.4
51 38.8 34.8 52.2
86 68.2 52.9 79.3





#21
trans-1,2-Dichloroethene
Concen: 48.172 ug/l
RT: 5.788 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

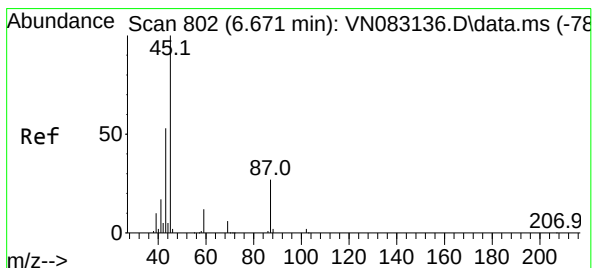
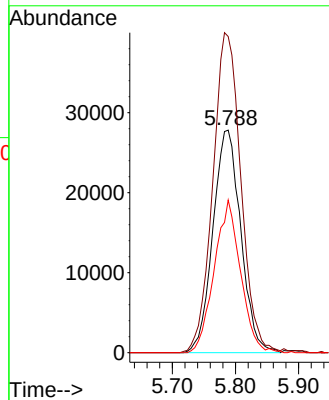
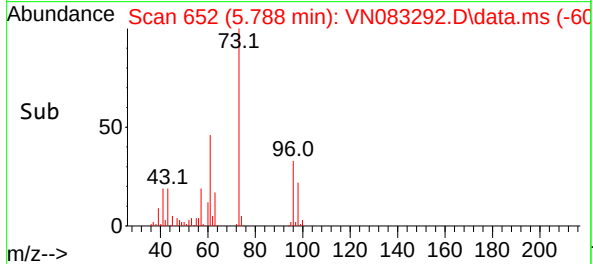
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD



Tgt Ion: 96 Resp: 85230
Ion Ratio Lower Upper
96 100
61 142.1 123.4 185.2
98 68.6 49.3 73.9

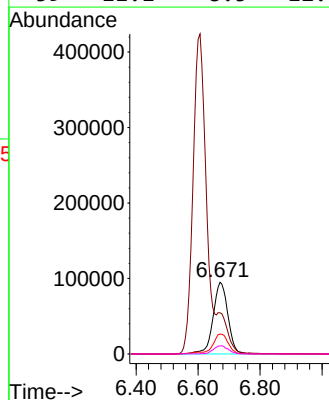
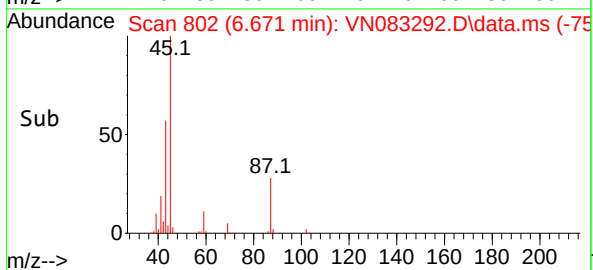
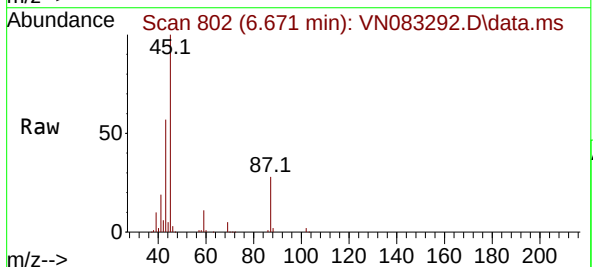
Manual Integrations
APPROVED

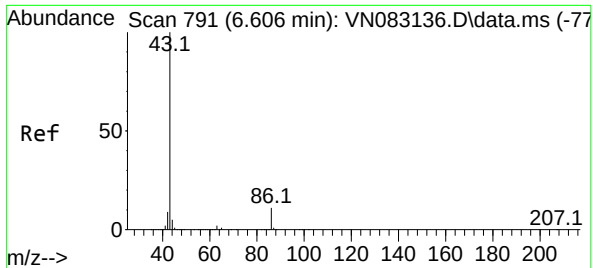
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#22
Diisopropyl ether
Concen: 51.811 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

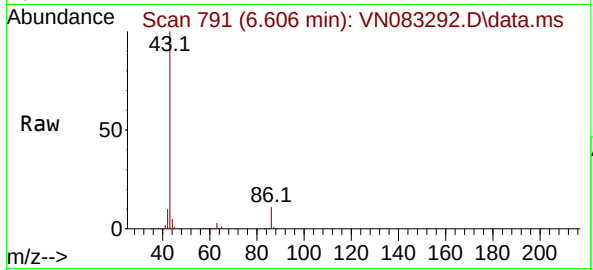
Tgt Ion: 45 Resp: 315055
Ion Ratio Lower Upper
45 100
43 56.9 44.0 66.0
87 27.6 19.7 29.5
59 11.1 8.5 12.7





#23
Vinyl Acetate
Concen: 200.144 ug/l
RT: 6.606 min Scan# 791
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

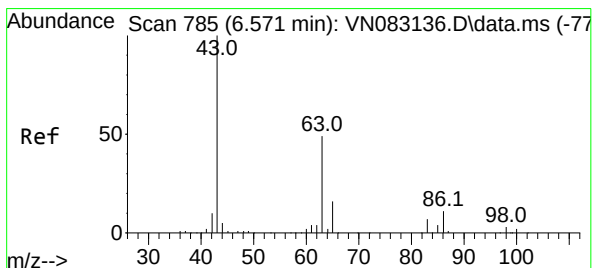
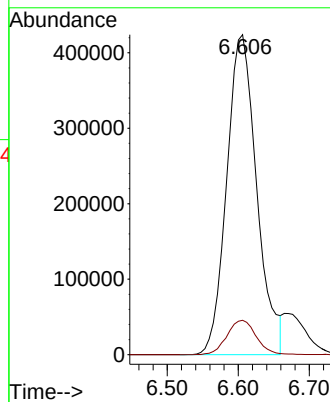
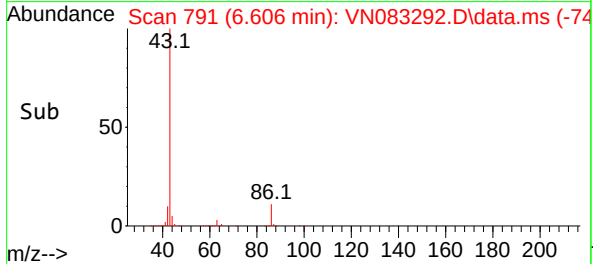
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD



Tgt Ion: 43 Resp: 124746
Ion Ratio Lower Upper
43 100
86 10.7 7.3 10.9

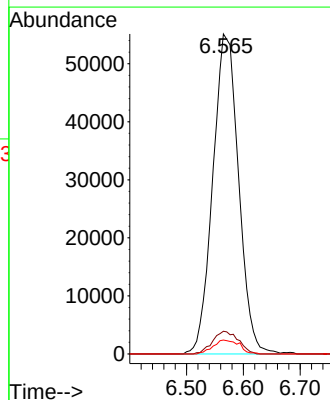
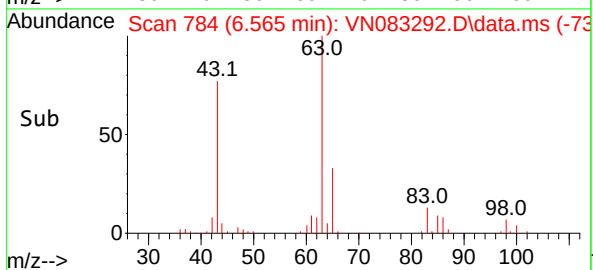
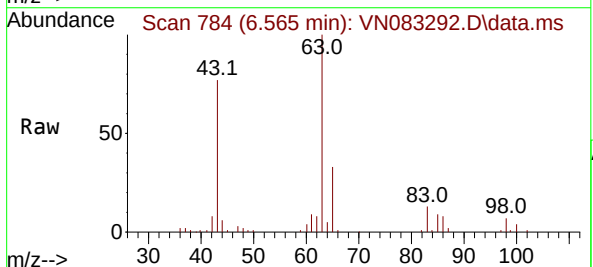
Manual Integrations
APPROVED

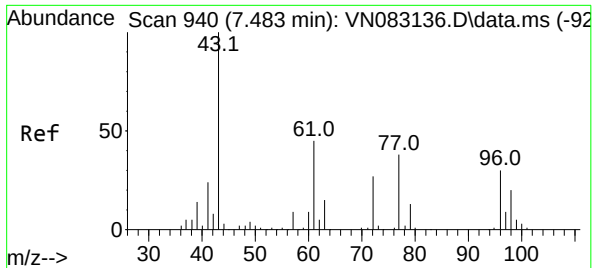
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#24
1,1-Dichloroethane
Concen: 52.534 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.006 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

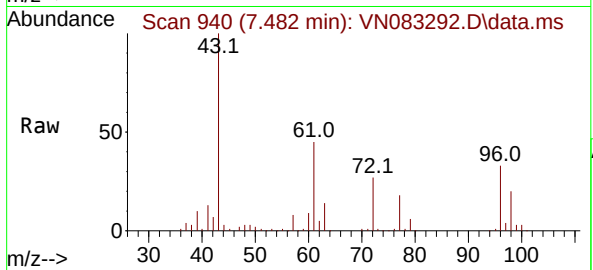
Tgt Ion: 63 Resp: 174125
Ion Ratio Lower Upper
63 100
98 7.1 3.3 9.9
100 4.4 2.0 6.0





#25
2-Butanone
Concen: 240.896 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

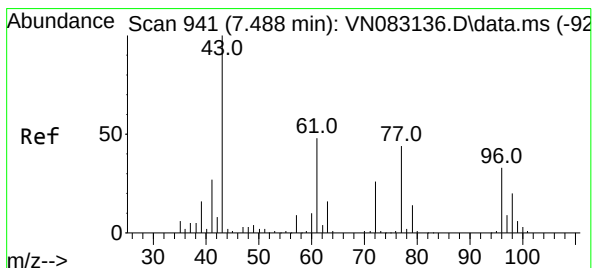
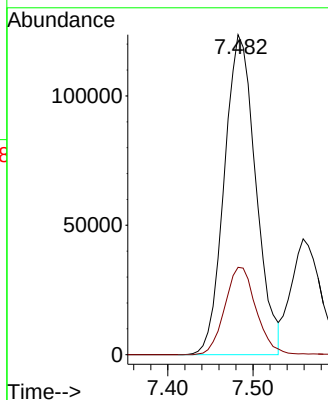
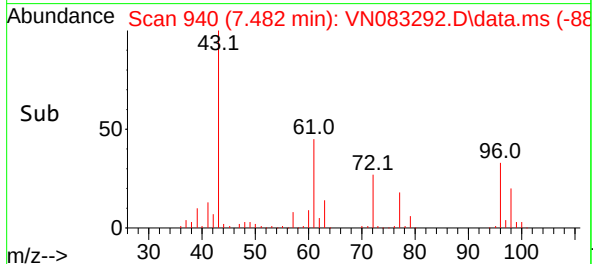
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD



Tgt Ion: 43 Resp: 318140
Ion Ratio Lower Upper
43 100
72 27.3 18.2 27.2

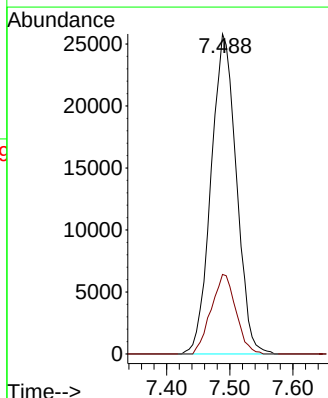
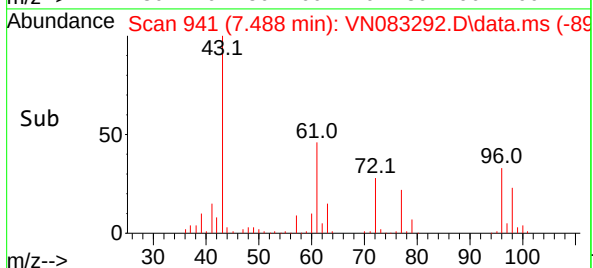
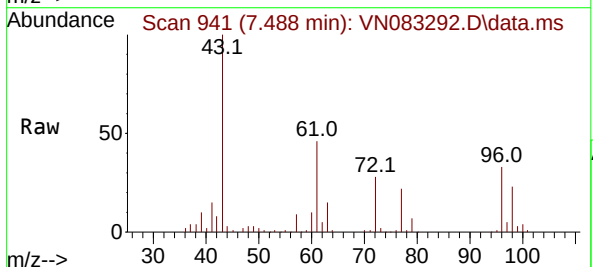
Manual Integrations
APPROVED

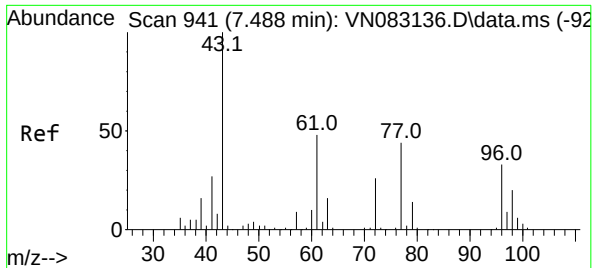
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#26
2,2-Dichloropropane
Concen: 23.377 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 77 Resp: 71957
Ion Ratio Lower Upper
77 100
97 24.3 10.3 30.9





#27

cis-1,2-Dichloroethene

Concen: 50.254 ug/l

RT: 7.482 min Scan# 941

Delta R.T. -0.006 min

Lab File: VN083292.D

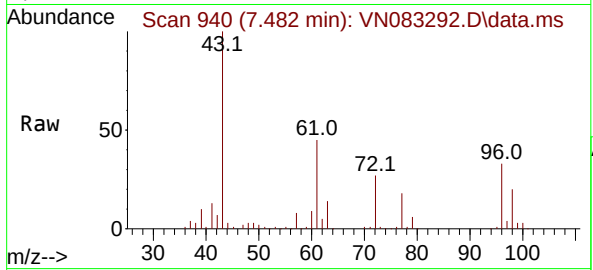
Acq: 14 Aug 2024 10:52

Instrument :

MSVOA_N

ClientSampleId :

924-K1-WP0-0.25-080224MSD



Tgt Ion: 96 Resp: 10729

Ion Ratio Lower Upper

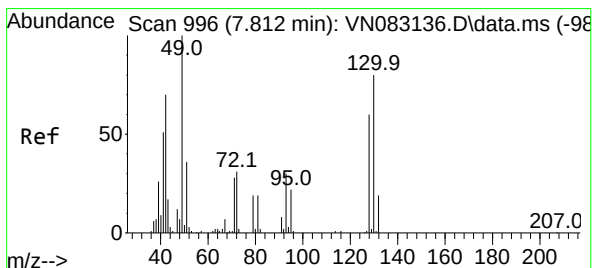
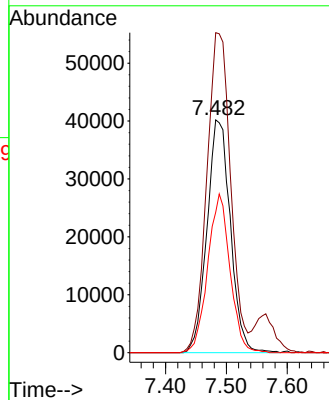
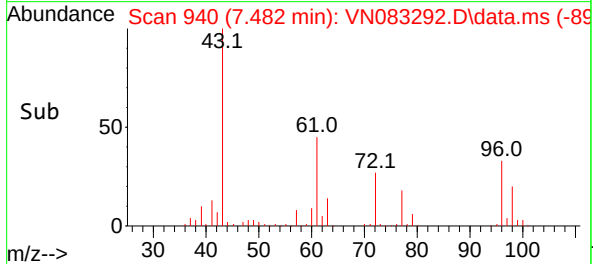
96 100

61 139.6 0.0 329.6

98 64.8 0.0 128.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

#28

Bromochloromethane

Concen: 51.301 ug/l

RT: 7.812 min Scan# 996

Delta R.T. -0.000 min

Lab File: VN083292.D

Acq: 14 Aug 2024 10:52

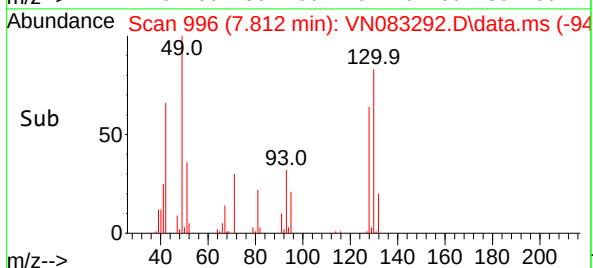
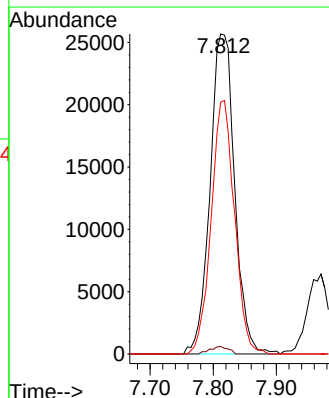
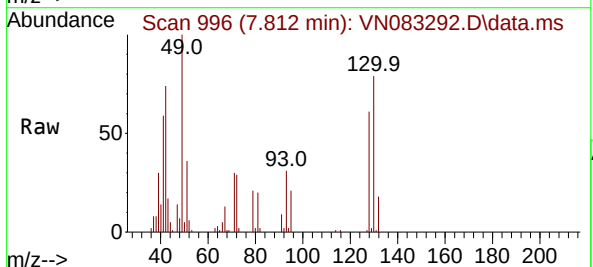
Tgt Ion: 49 Resp: 69489

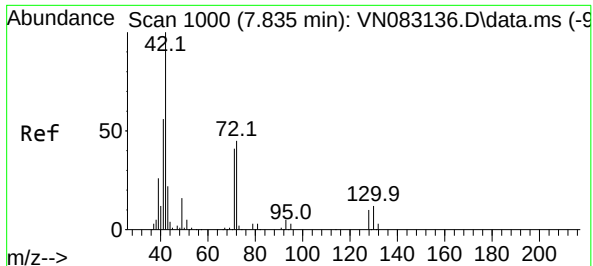
Ion Ratio Lower Upper

49 100

129 1.8 0.0 3.8

130 75.0 50.5 75.7





#29

Tetrahydrofuran

Concen: 258.947 ug/l

RT: 7.841 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN083292.D

Acq: 14 Aug 2024 10:52

Instrument :

MSVOA_N

ClientSampleId :

924-K1-WP0-0.25-080224MSD

Tgt Ion: 42 Resp: 22107

Ion Ratio Lower Upper

42 100

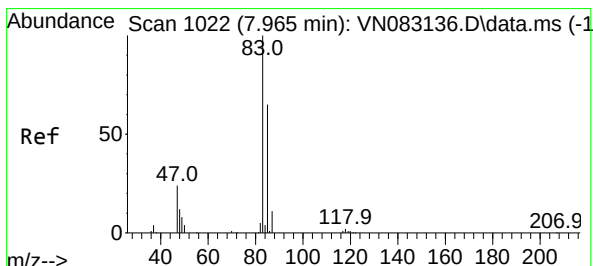
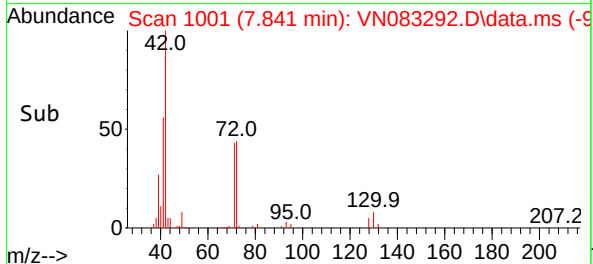
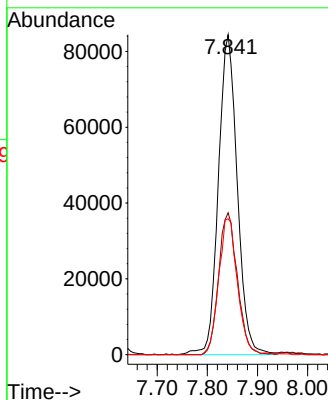
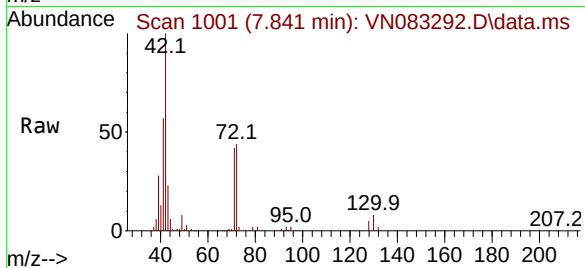
72 44.0 30.0 45.0

71 42.2 28.3 42.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
 Supervised By :Semsettin Yesilyurt 08/16/2024



#30

Chloroform

Concen: 53.925 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. -0.000 min

Lab File: VN083292.D

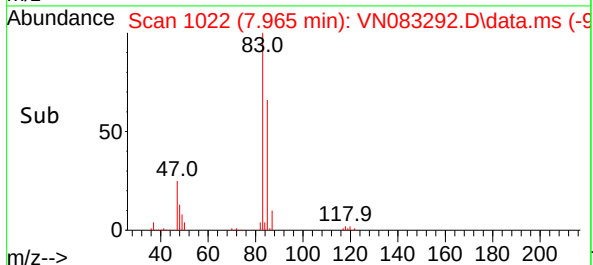
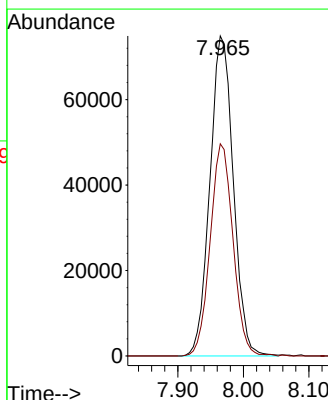
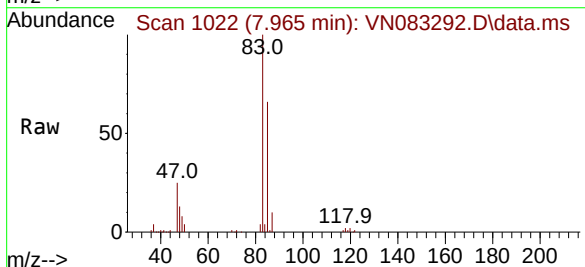
Acq: 14 Aug 2024 10:52

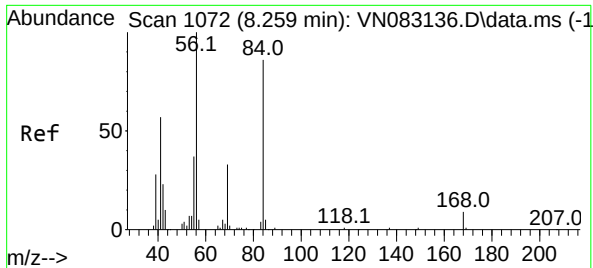
Tgt Ion: 83 Resp: 185692

Ion Ratio Lower Upper

83 100

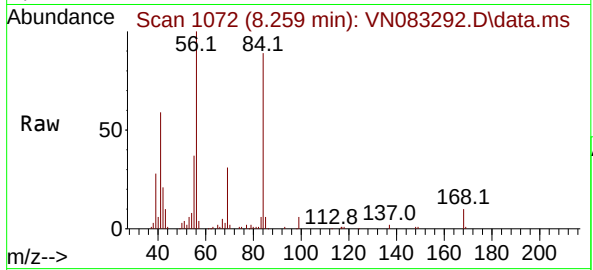
85 66.3 50.9 76.3





#31
Cyclohexane
Concen: 43.680 ug/l
RT: 8.259 min Scan# 1072
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

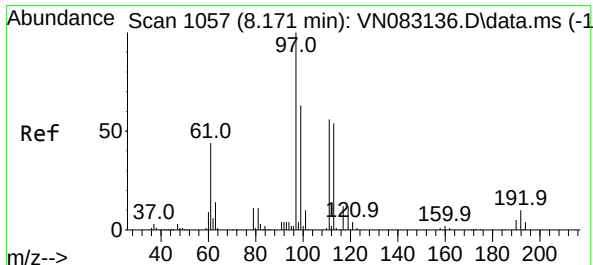
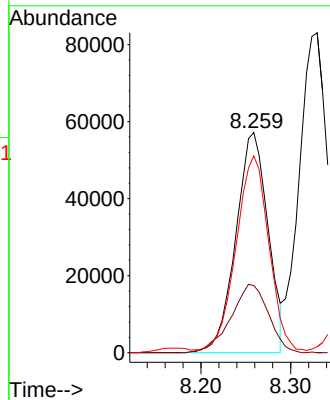
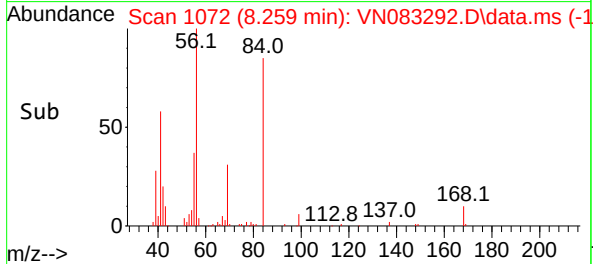
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD



Tgt Ion: 56 Resp: 142280
Ion Ratio Lower Upper
56 100
69 30.5 24.5 36.7
84 87.4 66.0 99.0

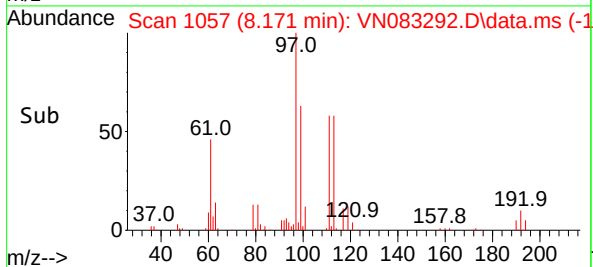
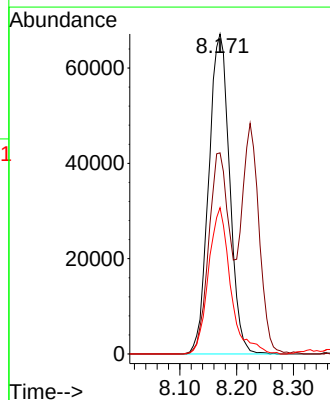
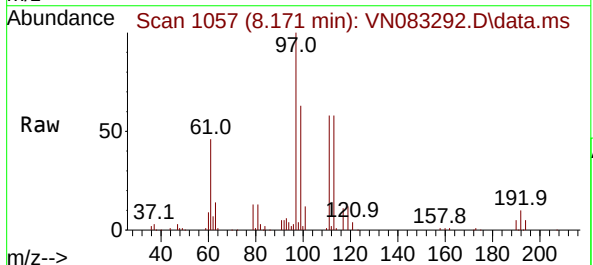
Manual Integrations
APPROVED

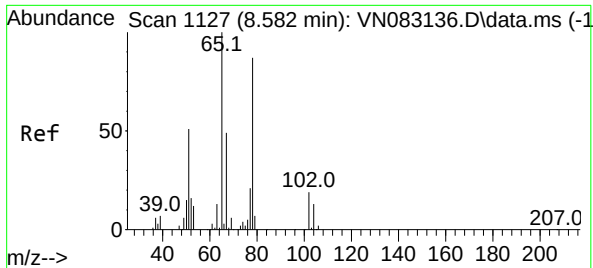
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#32
1,1,1-Trichloroethane
Concen: 52.413 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 97 Resp: 170836
Ion Ratio Lower Upper
97 100
99 61.2 52.0 78.0
61 48.4 42.1 63.1





#33

1,2-Dichloroethane-d4

Concen: 59.217 ug/l

RT: 8.576 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VN083292.D

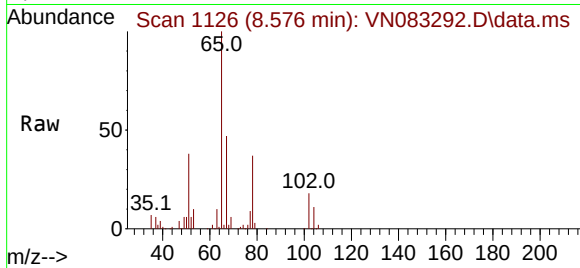
Acq: 14 Aug 2024 10:52

Instrument :

MSVOA_N

ClientSampleId :

924-K1-WP0-0.25-080224MSD



Tgt Ion: 65 Resp: 13016

Ion Ratio Lower Upper

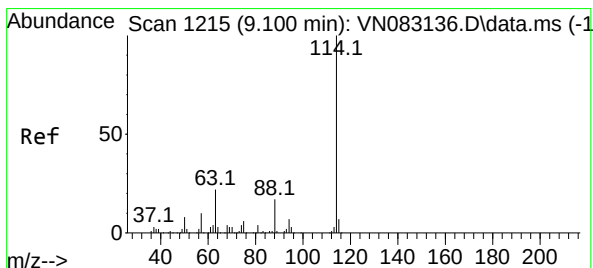
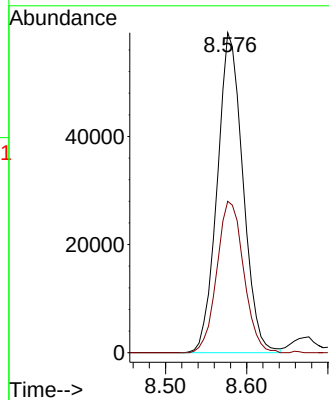
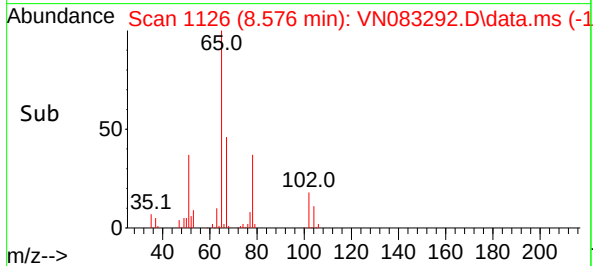
65 100

67 49.3 0.0 104.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN083292.D

Acq: 14 Aug 2024 10:52

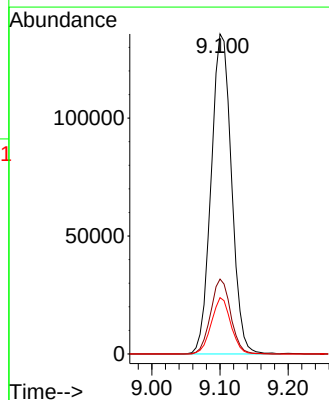
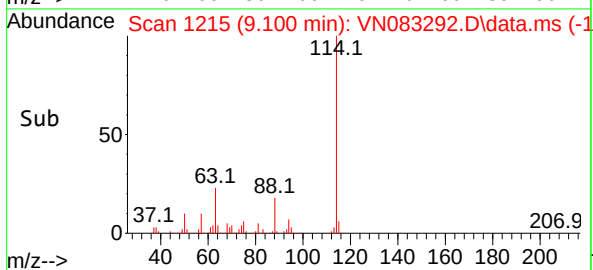
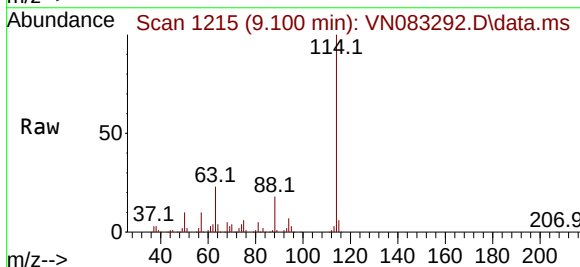
Tgt Ion:114 Resp: 282107

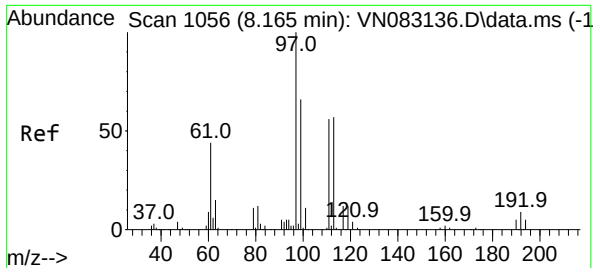
Ion Ratio Lower Upper

114 100

63 23.4 0.0 44.6

88 17.6 0.0 31.4





#35

Dibromofluoromethane

Concen: 52.724 ug/l

RT: 8.171 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN083292.D

Acq: 14 Aug 2024 10:52

Instrument :

MSVOA_N

ClientSampleId :

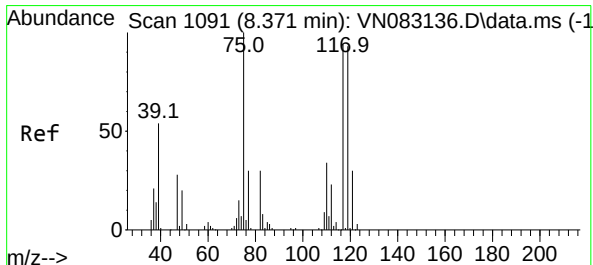
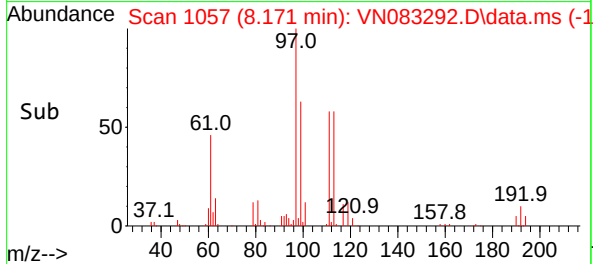
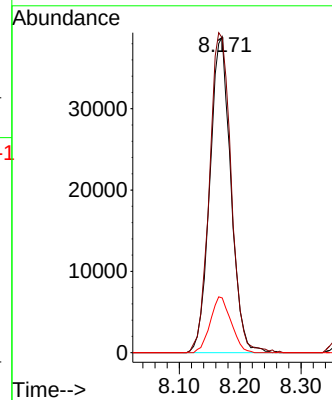
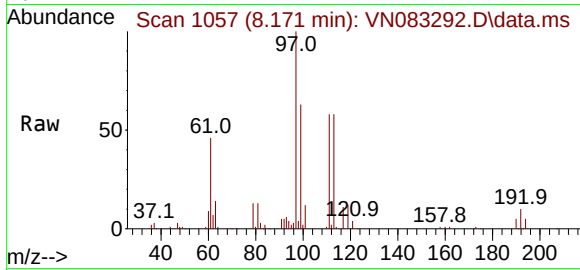
924-K1-WP0-0.25-080224MSD

Tgt Ion:	113	Resp:	92840
Ion	Ratio	Lower	Upper
113	100		
111	104.8	82.4	123.6
192	17.5	14.9	22.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
 Supervised By :Semsettin Yesilyurt 08/16/2024



#36

1,1-Dichloropropene

Concen: 46.751 ug/l

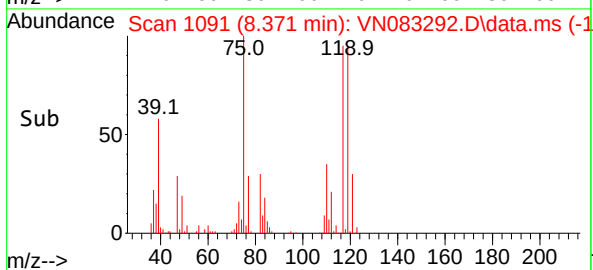
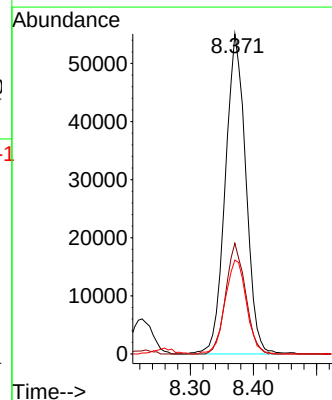
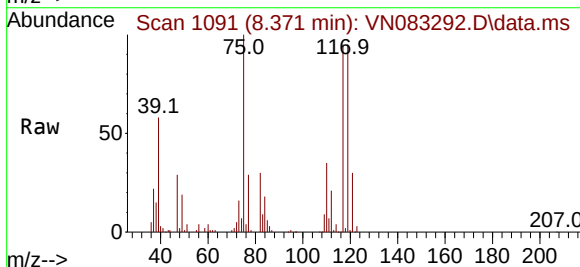
RT: 8.371 min Scan# 1091

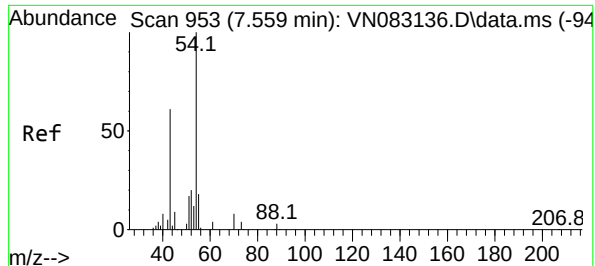
Delta R.T. -0.000 min

Lab File: VN083292.D

Acq: 14 Aug 2024 10:52

Tgt Ion:	75	Resp:	124531
Ion	Ratio	Lower	Upper
75	100		
110	33.3	16.3	48.9
77	30.5	24.6	37.0





#37

Ethyl Acetate

Concen: 37.043 ug/l

RT: 7.559 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN083292.D

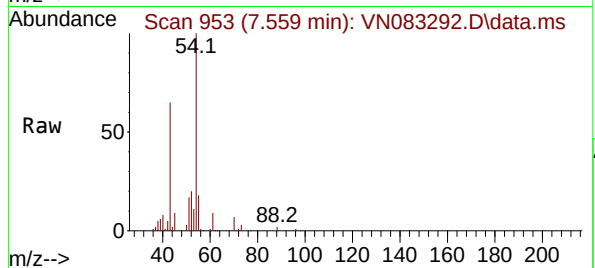
Acq: 14 Aug 2024 10:52

Instrument :

MSVOA_N

ClientSampleId :

924-K1-WP0-0.25-080224MSD



Tgt Ion: 43 Resp: 110479

Ion Ratio Lower Upper

43 100

61 14.1 9.3 13.9

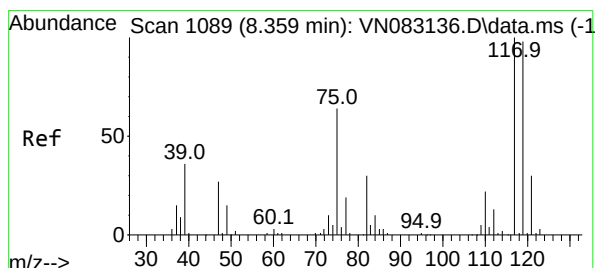
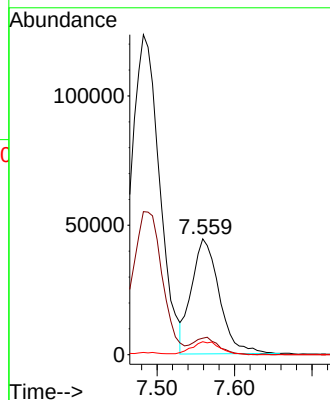
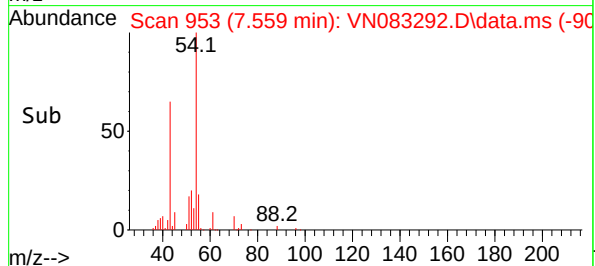
70 11.6 7.0 10.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024

Supervised By :Semsettin Yesilyurt 08/16/2024



#38

Carbon Tetrachloride

Concen: 48.402 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. 0.006 min

Lab File: VN083292.D

Acq: 14 Aug 2024 10:52

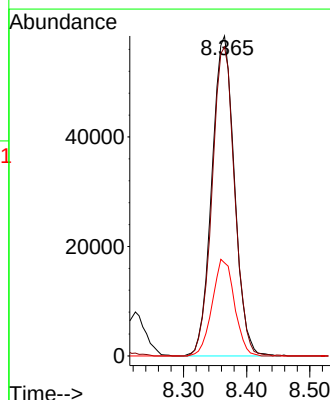
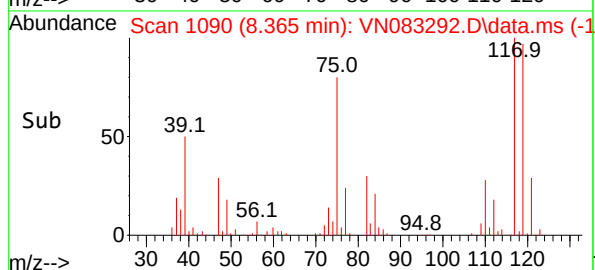
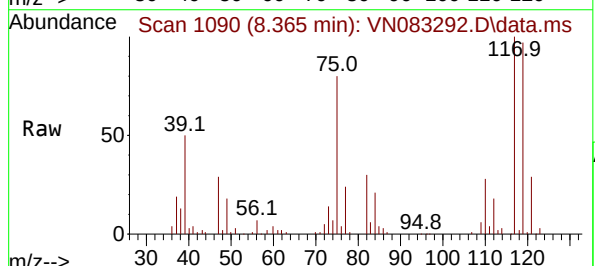
Tgt Ion:117 Resp: 145214

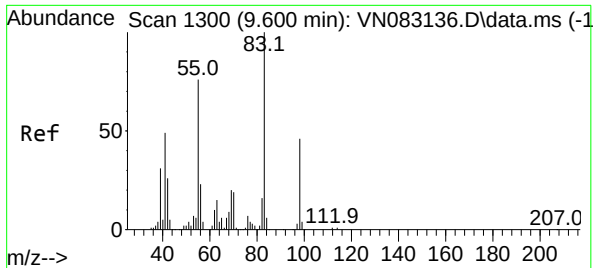
Ion Ratio Lower Upper

117 100

119 96.5 74.9 112.3

121 29.1 24.3 36.5





#39

Methylcyclohexane

Concen: 42.635 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN083292.D

Acq: 14 Aug 2024 10:52

Instrument :

MSVOA_N

ClientSampleId :

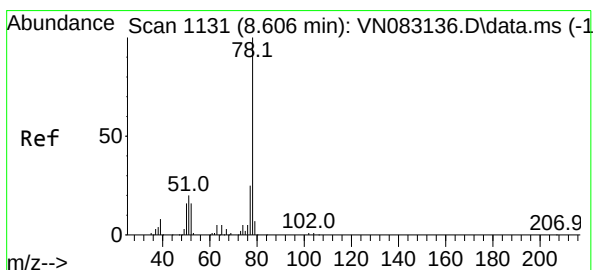
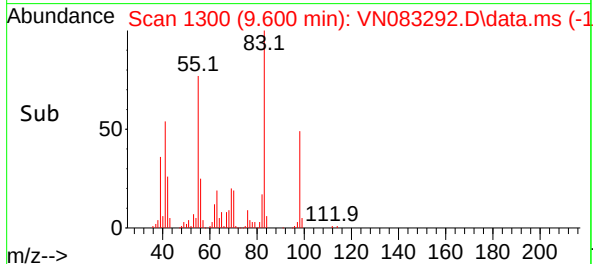
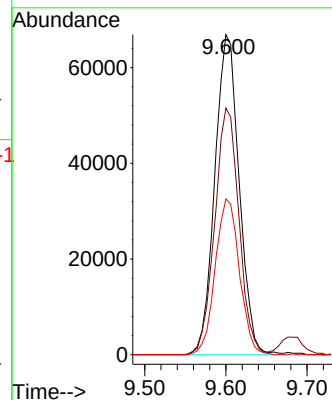
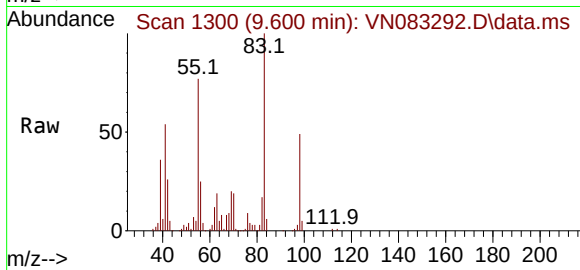
924-K1-WP0-0.25-080224MSD

Tgt Ion:	83	Resp:	13948
Ion	Ratio	Lower	Upper
83	100		
55	77.1	66.4	99.6
98	48.7	40.7	61.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#40

Benzene

Concen: 48.951 ug/l

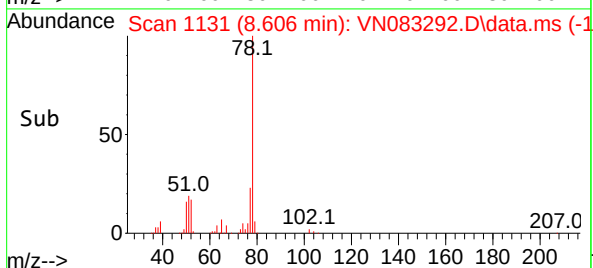
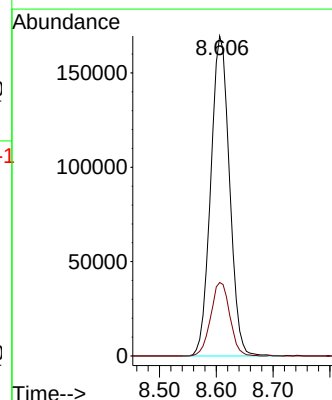
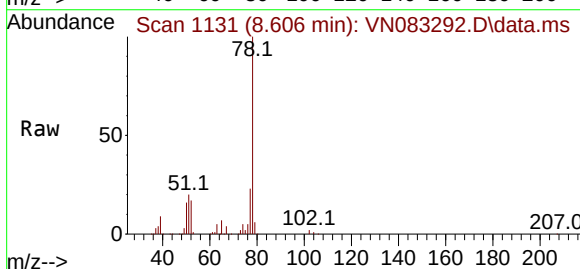
RT: 8.606 min Scan# 1131

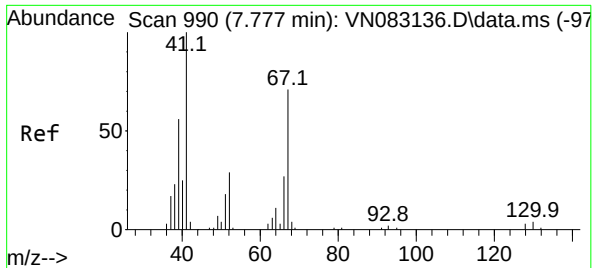
Delta R.T. -0.000 min

Lab File: VN083292.D

Acq: 14 Aug 2024 10:52

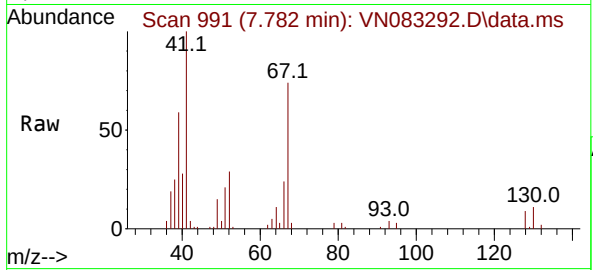
Tgt Ion:	78	Resp:	388435
Ion	Ratio	Lower	Upper
78	100		
77	22.9	19.0	28.4





#41
Methacrylonitrile
Concen: 44.404 ug/l
RT: 7.782 min Scan# 991
Delta R.T. 0.006 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

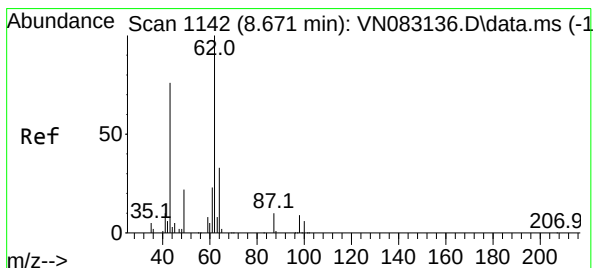
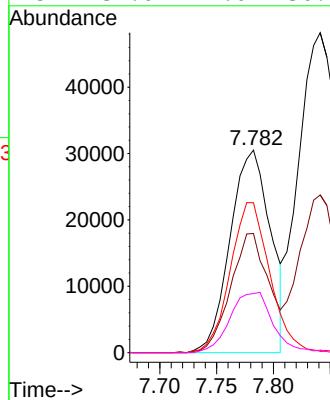
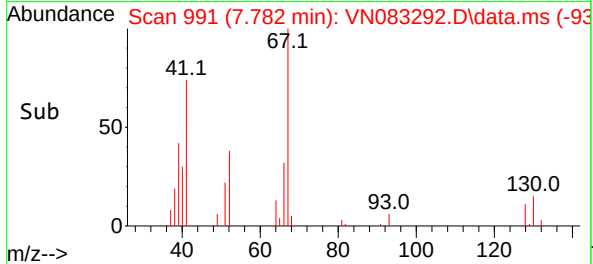
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD



Tgt Ion: 41 Resp: 75298
Ion Ratio Lower Upper
41 100
39 55.9 45.5 68.3
67 73.2 50.5 75.7
52 31.6 24.0 36.0

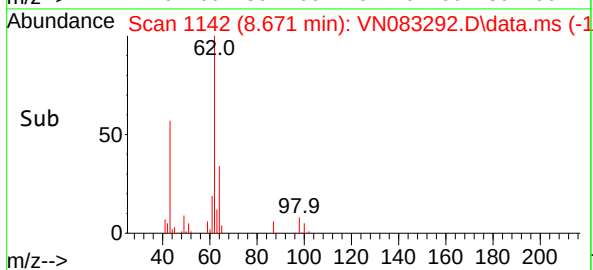
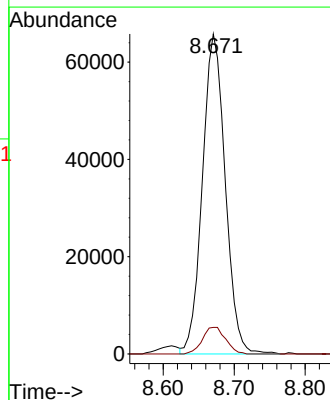
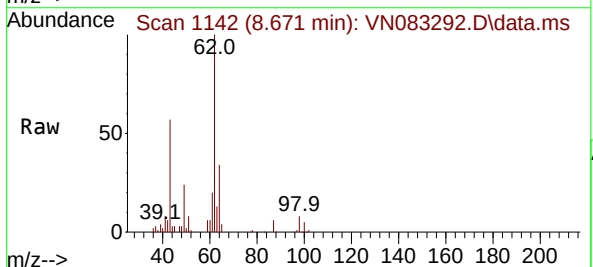
Manual Integrations
APPROVED

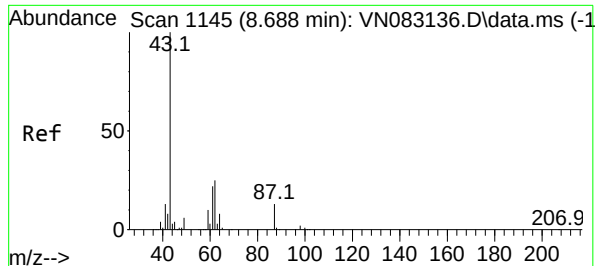
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#42
1,2-Dichloroethane
Concen: 50.868 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion: 62 Resp: 147040
Ion Ratio Lower Upper
62 100
98 8.5 0.0 15.8





#43

Isopropyl Acetate

Concen: 41.971 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN083292.D

Acq: 14 Aug 2024 10:52

Instrument :

MSVOA_N

ClientSampleId :

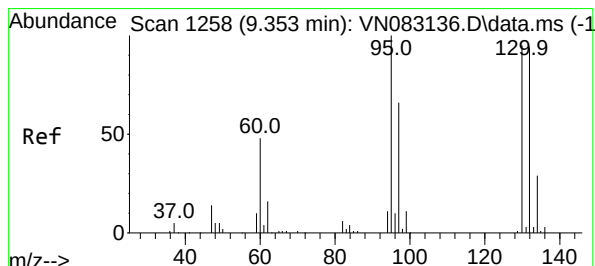
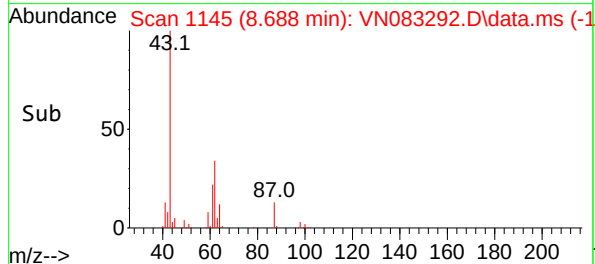
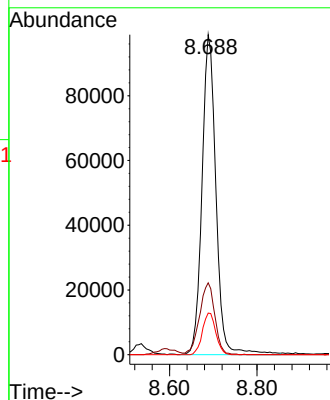
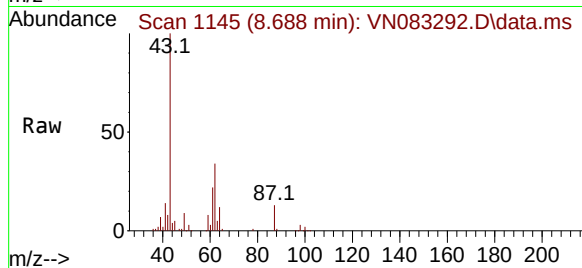
924-K1-WP0-0.25-080224MSD

Tgt Ion:	43	Resp:	21965
Ion	Ratio	Lower	Upper
43	100		
61	24.5	17.8	26.6
87	12.5	8.2	12.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#44

Trichloroethene

Concen: 47.513 ug/l

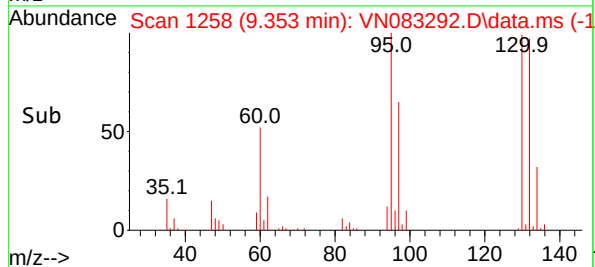
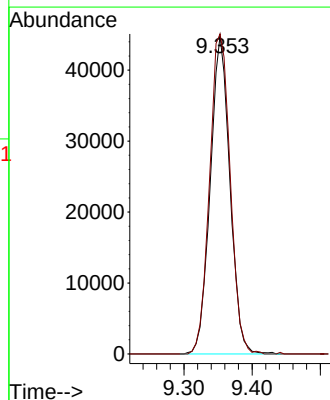
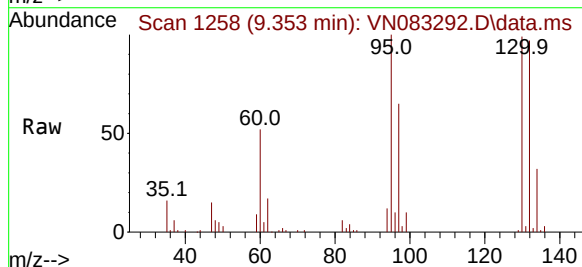
RT: 9.353 min Scan# 1258

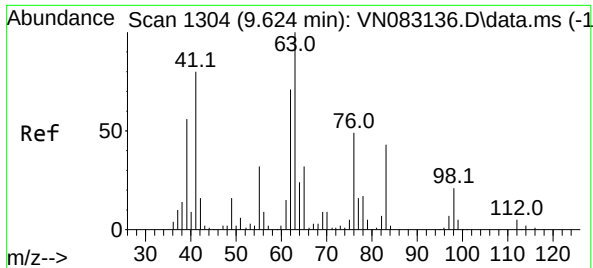
Delta R.T. -0.000 min

Lab File: VN083292.D

Acq: 14 Aug 2024 10:52

Tgt Ion:	130	Resp:	89740
Ion	Ratio	Lower	Upper
130	100		
95	100.7	0.0	197.8





#45

1,2-Dichloropropane

Concen: 50.496 ug/l

RT: 9.623 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN083292.D

Acq: 14 Aug 2024 10:52

Instrument :

MSVOA_N

ClientSampleId :

924-K1-WP0-0.25-080224MSD

Tgt Ion: 63 Resp: 9511

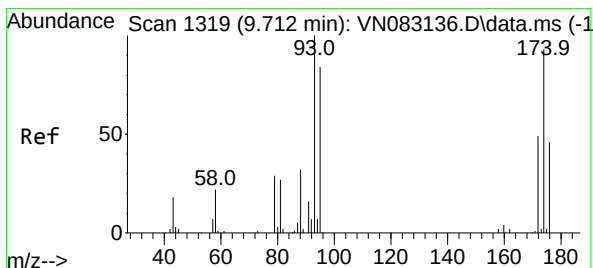
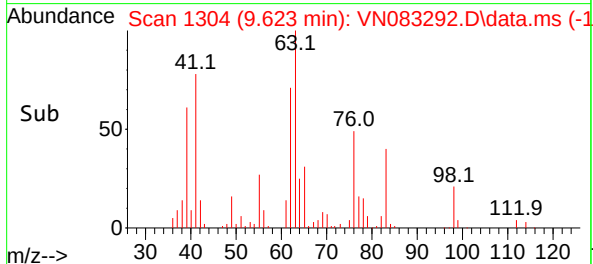
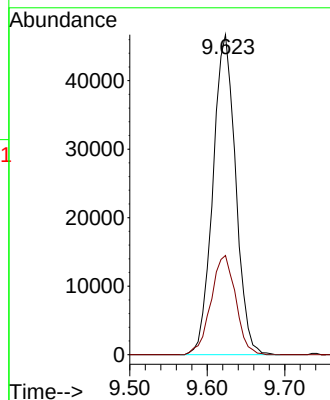
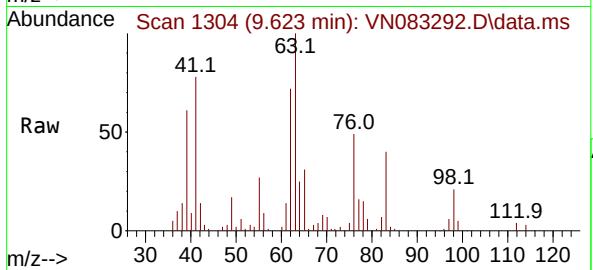
Ion Ratio Lower Upper

63 100

65 31.0 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

#46

Dibromomethane

Concen: 50.935 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.006 min

Lab File: VN083292.D

Acq: 14 Aug 2024 10:52

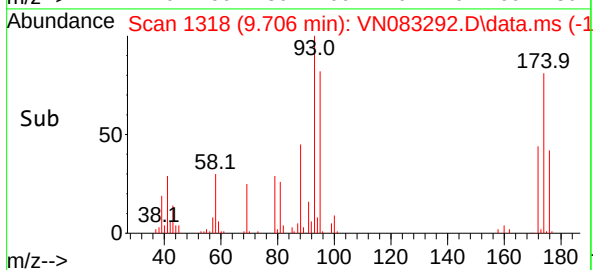
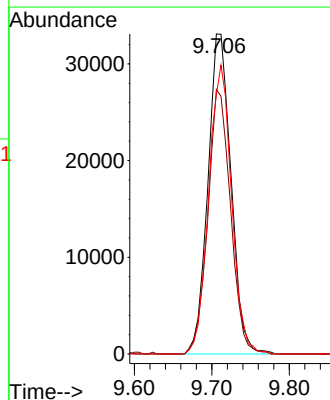
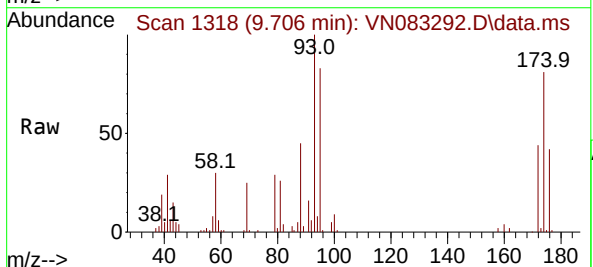
Tgt Ion: 93 Resp: 68672

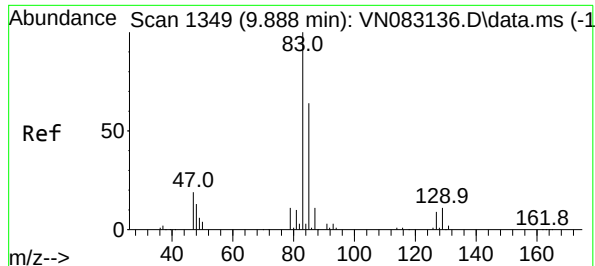
Ion Ratio Lower Upper

93 100

95 81.2 65.8 98.6

174 89.4 71.7 107.5





#47

Bromodichloromethane

Concen: 49.276 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. -0.000 min

Lab File: VN083292.D

Acq: 14 Aug 2024 10:52

Instrument :

MSVOA_N

ClientSampleId :

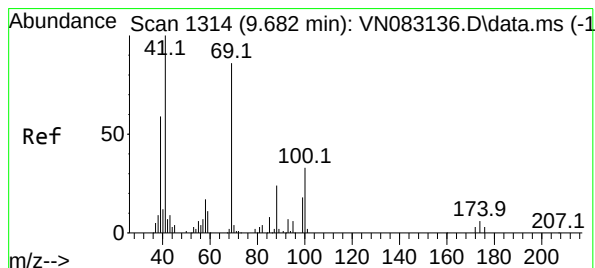
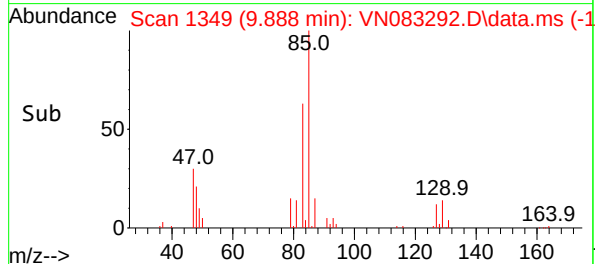
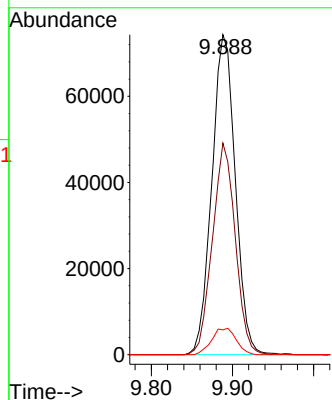
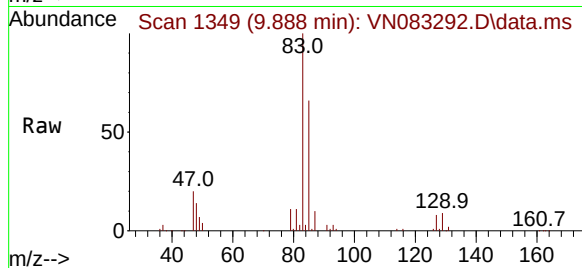
924-K1-WP0-0.25-080224MSD

Tgt Ion:	83	Resp:	149169
Ion	Ratio	Lower	Upper
83	100		
85	66.1	51.1	76.7
127	7.8	7.2	10.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#48

Methyl methacrylate

Concen: 45.176 ug/l

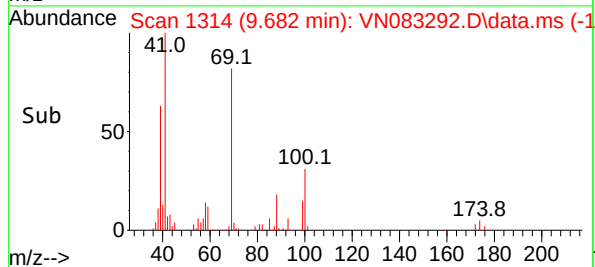
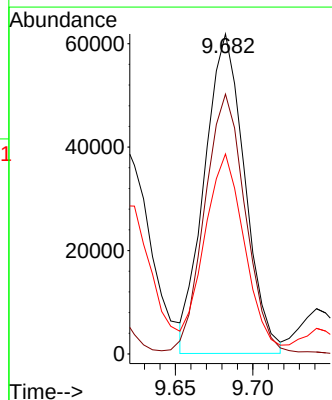
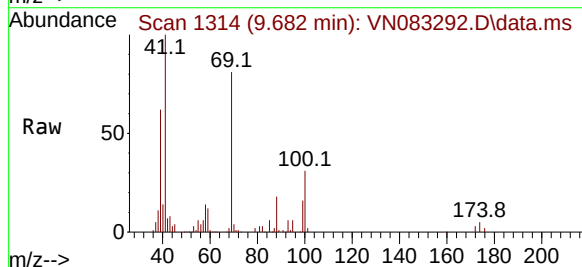
RT: 9.682 min Scan# 1314

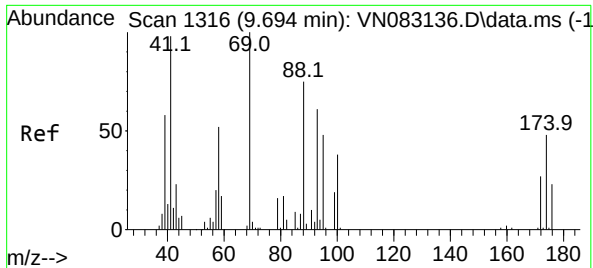
Delta R.T. -0.000 min

Lab File: VN083292.D

Acq: 14 Aug 2024 10:52

Tgt Ion:	41	Resp:	111391
Ion	Ratio	Lower	Upper
41	100		
69	83.2	56.3	84.5
39	63.2	50.3	75.5





#49

1,4-Dioxane

Concen: 880.677 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VN083292.D

Acq: 14 Aug 2024 10:52

Instrument :

MSVOA_N

ClientSampleId :

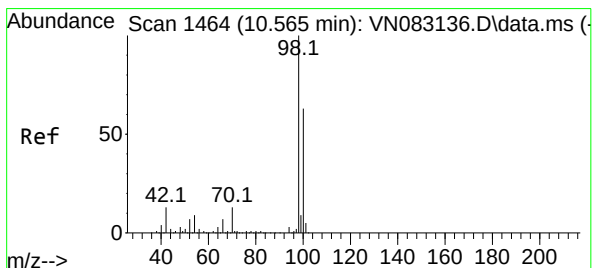
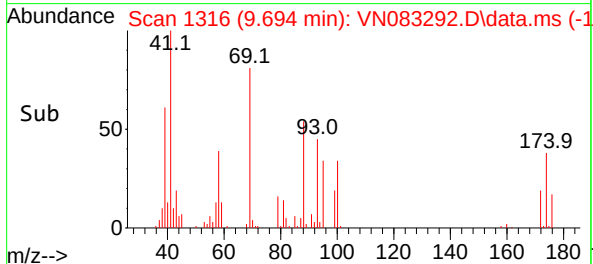
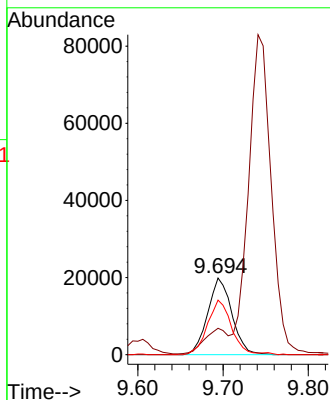
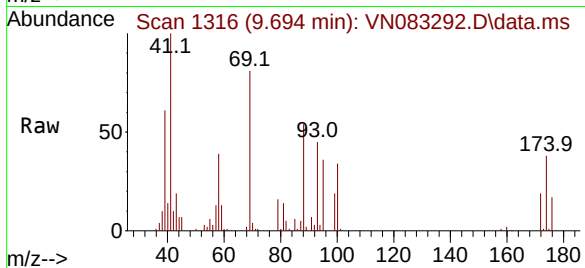
924-K1-WP0-0.25-080224MSD

Tgt Ion:	88	Resp:	39170
Ion Ratio	Lower	Upper	
88	100		
43	31.9	27.8	41.8
58	71.2	59.4	89.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#50

Toluene-d8

Concen: 53.077 ug/l

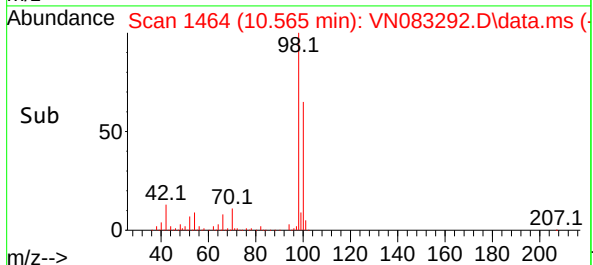
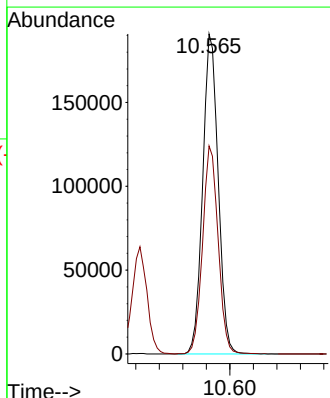
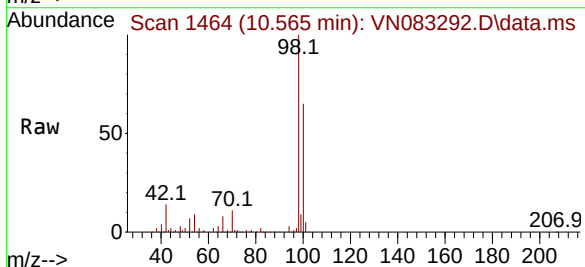
RT: 10.565 min Scan# 1464

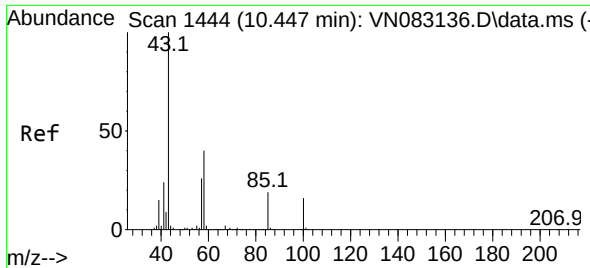
Delta R.T. -0.000 min

Lab File: VN083292.D

Acq: 14 Aug 2024 10:52

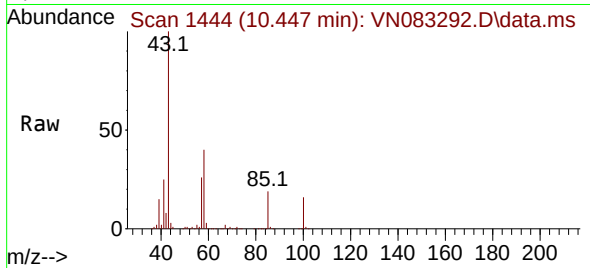
Tgt Ion:	98	Resp:	348630
Ion Ratio	Lower	Upper	
98	100		
100	65.3	51.5	77.3





#51
4-Methyl-2-Pentanone
Concen: 246.380 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

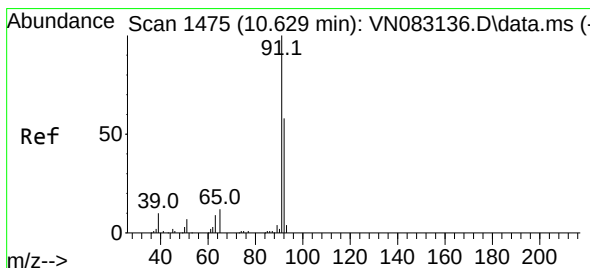
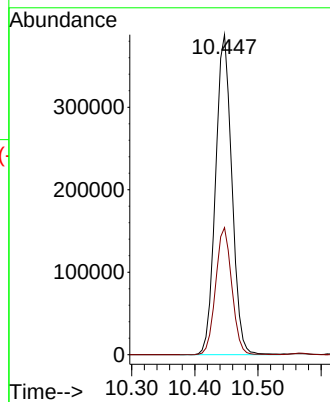
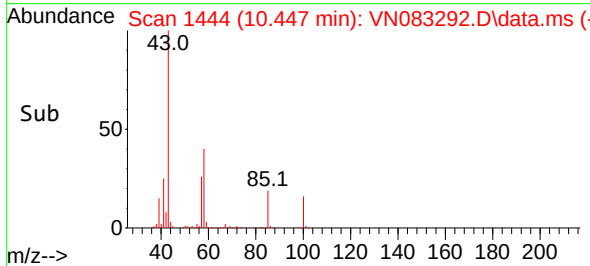
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD



Tgt Ion: 43 Resp: 694864
Ion Ratio Lower Upper
43 100
58 39.4 28.2 42.4

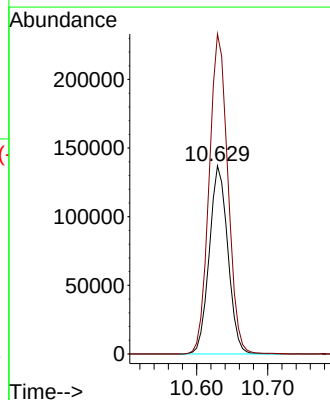
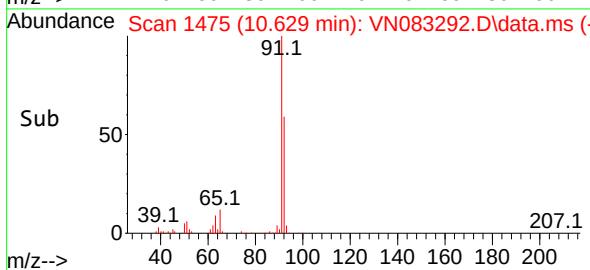
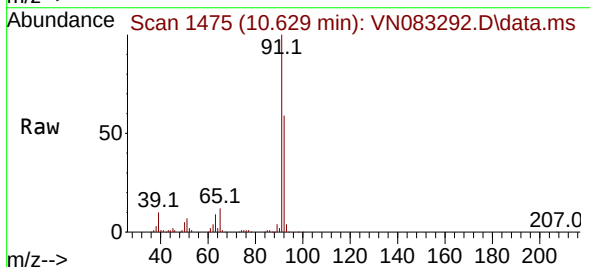
Manual Integrations
APPROVED

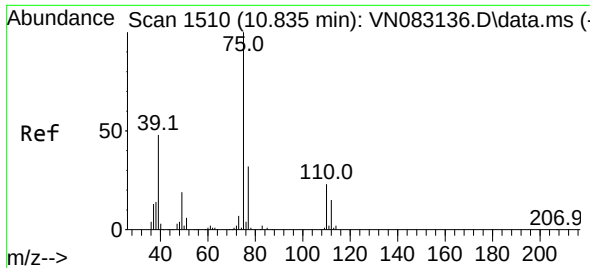
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#52
Toluene
Concen: 49.578 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

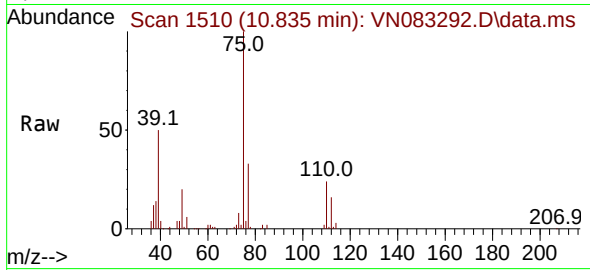
Tgt Ion: 92 Resp: 248571
Ion Ratio Lower Upper
92 100
91 171.9 139.4 209.0





#53
t-1,3-Dichloropropene
Concen: 43.800 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

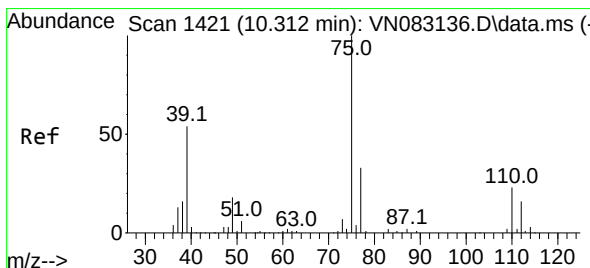
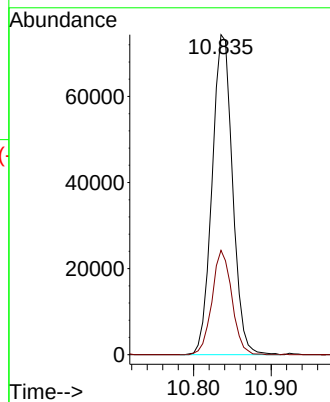
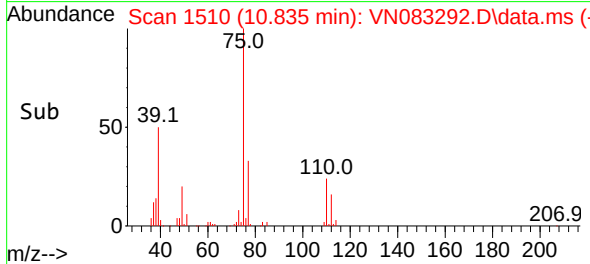
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD



Tgt Ion: 75 Resp: 13620
Ion Ratio Lower Upper
75 100
77 32.6 25.7 38.5

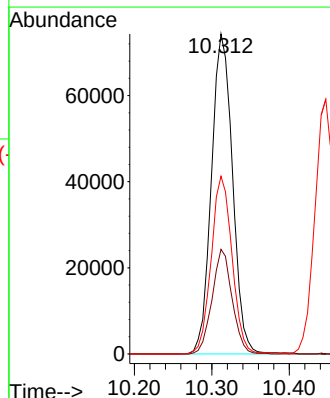
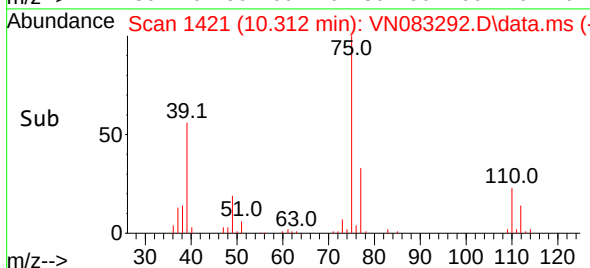
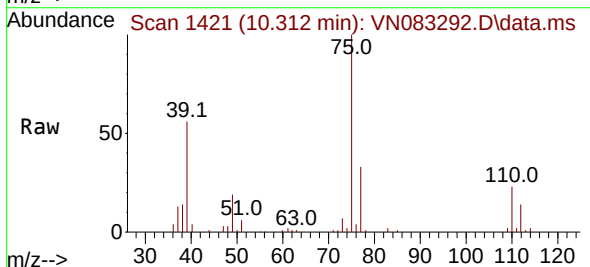
Manual Integrations
APPROVED

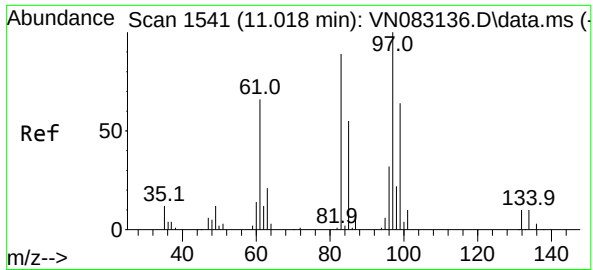
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#54
cis-1,3-Dichloropropene
Concen: 42.502 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

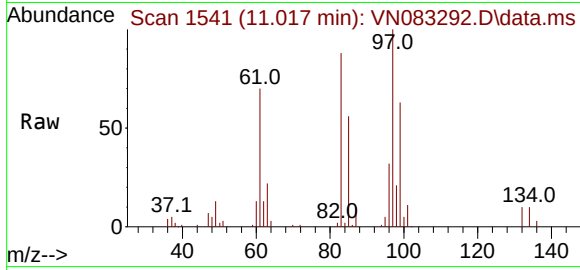
Tgt Ion: 75 Resp: 140574
Ion Ratio Lower Upper
75 100
77 32.7 24.3 36.5
39 55.5 50.5 75.7





#55
1,1,2-Trichloroethane
Concen: 51.897 ug/l
RT: 11.017 min Scan# 1541
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

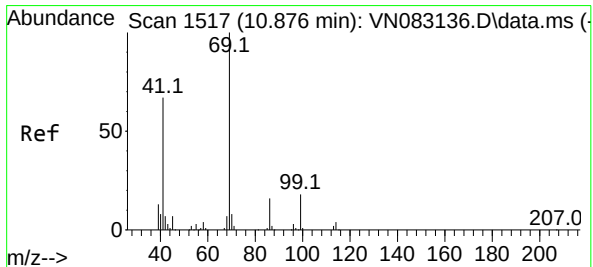
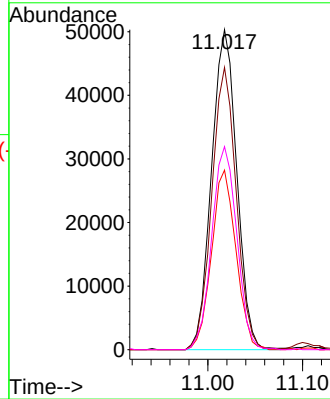
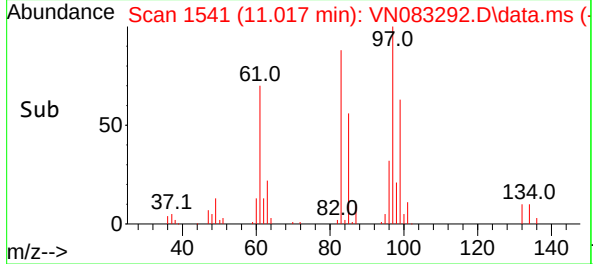
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD



Tgt Ion: 97 Resp: 93248
Ion Ratio Lower Upper
97 100
83 88.2 71.4 107.0
85 56.1 45.8 68.6
99 63.5 52.0 78.0

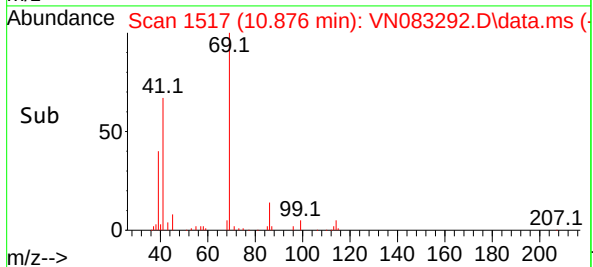
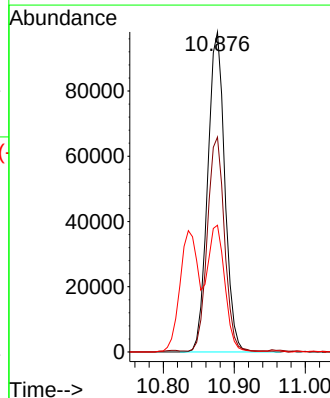
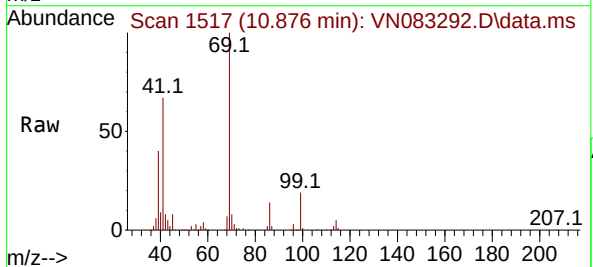
Manual Integrations
APPROVED

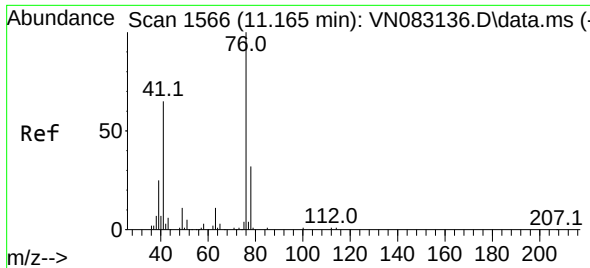
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#56
Ethyl methacrylate
Concen: 48.503 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

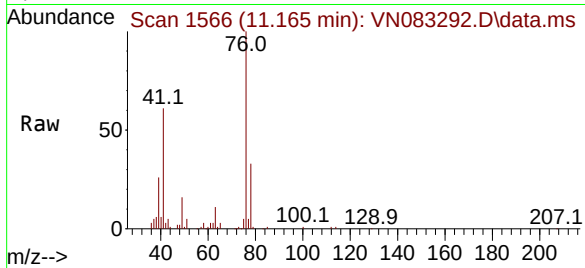
Tgt Ion: 69 Resp: 164293
Ion Ratio Lower Upper
69 100
41 67.0 63.4 95.2
39 40.5 37.4 56.0





#57
1,3-Dichloropropane
Concen: 50.716 ug/l
RT: 11.165 min Scan# 1566
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

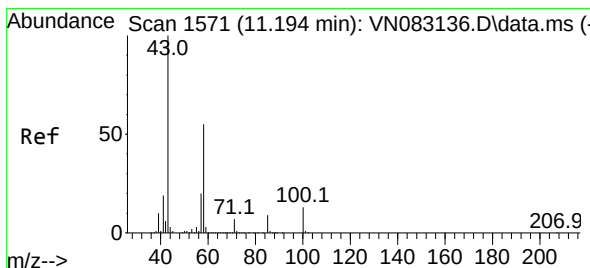
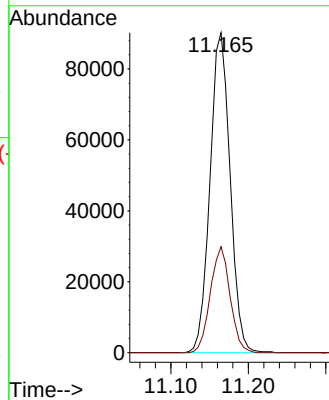
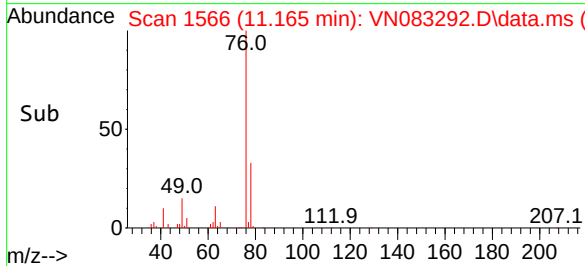
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD



Tgt Ion: 76 Resp: 162423
Ion Ratio Lower Upper
76 100
78 32.5 25.6 38.4

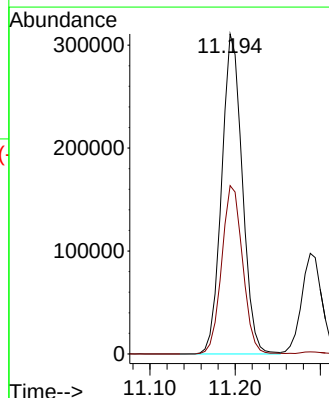
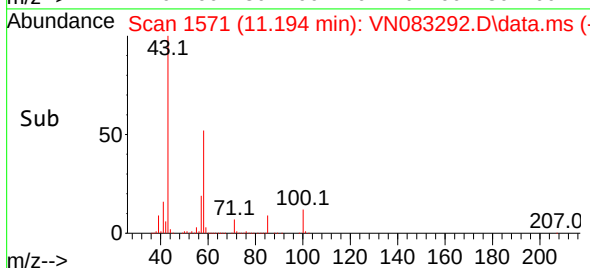
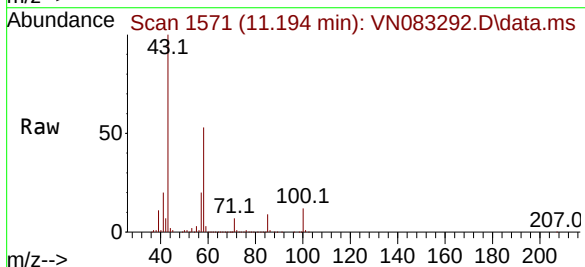
Manual Integrations
APPROVED

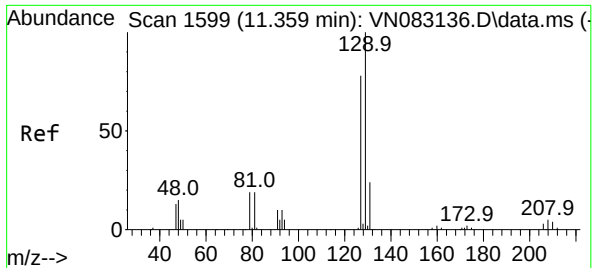
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#59
2-Hexanone
Concen: 239.233 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

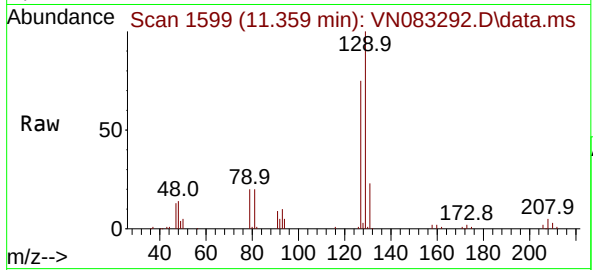
Tgt Ion: 43 Resp: 521980
Ion Ratio Lower Upper
43 100
58 53.4 24.6 73.8





#60
Dibromochloromethane
Concen: 51.400 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

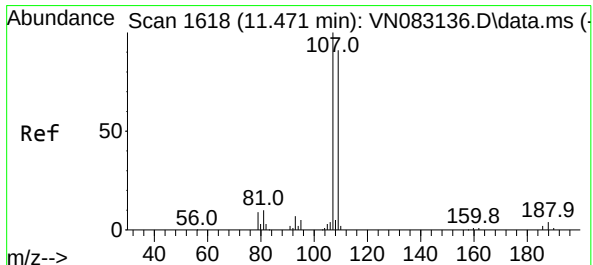
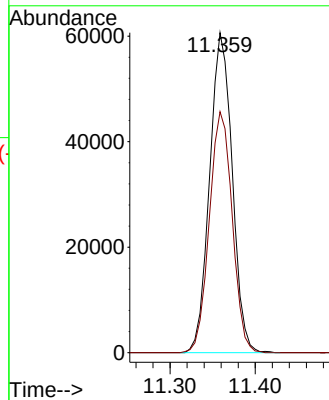
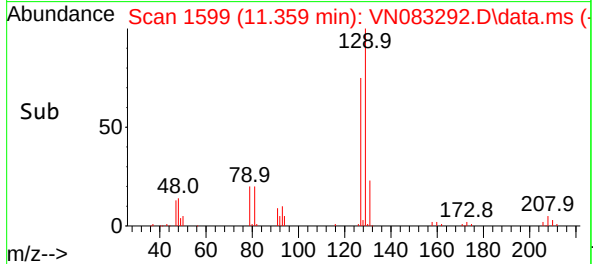
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD



Tgt Ion:129 Resp: 111659
Ion Ratio Lower Upper
129 100
127 76.3 39.2 117.6

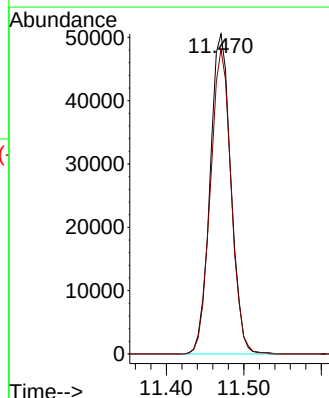
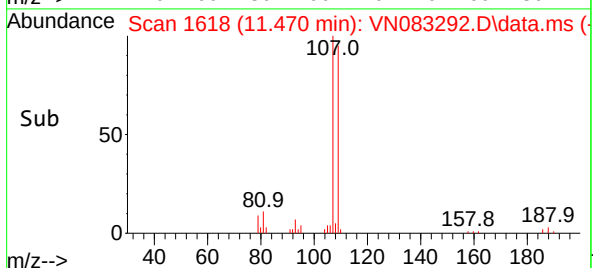
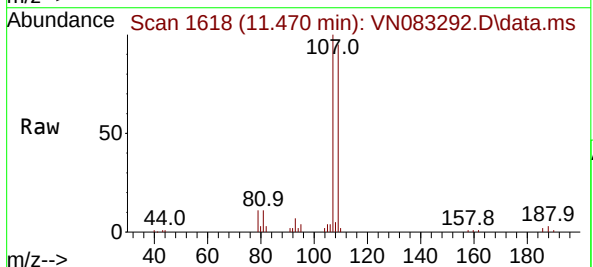
Manual Integrations
APPROVED

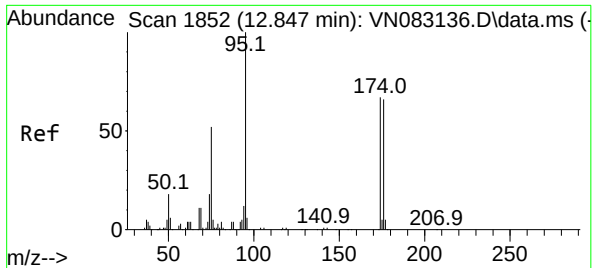
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#61
1,2-Dibromoethane
Concen: 49.966 ug/l
RT: 11.470 min Scan# 1618
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

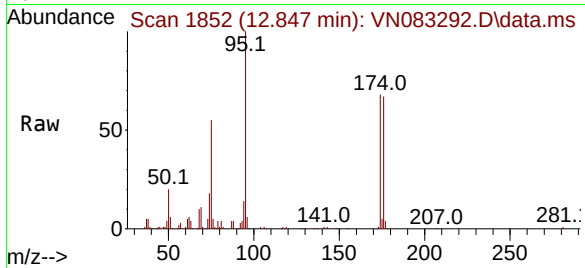
Tgt Ion:107 Resp: 94311
Ion Ratio Lower Upper
107 100
109 94.5 73.7 110.5





#62
4-Bromofluorobenzene
Concen: 52.539 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

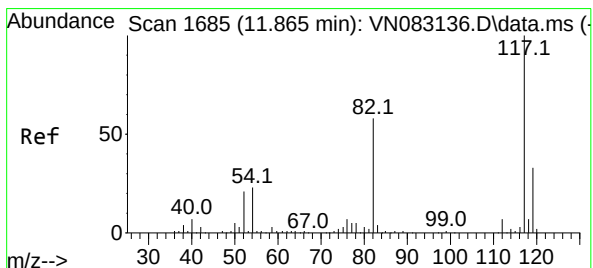
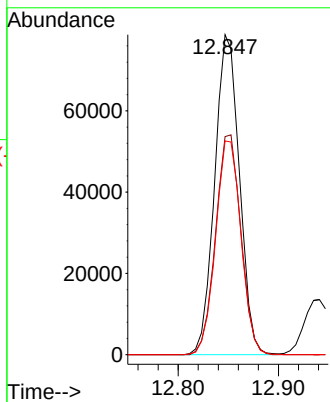
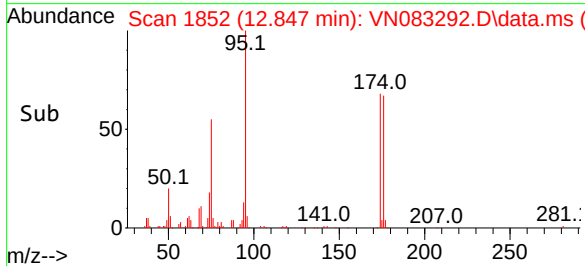
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD



Tgt Ion: 95 Resp: 134539
Ion Ratio Lower Upper
95 100
174 70.5 0.0 159.2
176 68.6 0.0 147.6

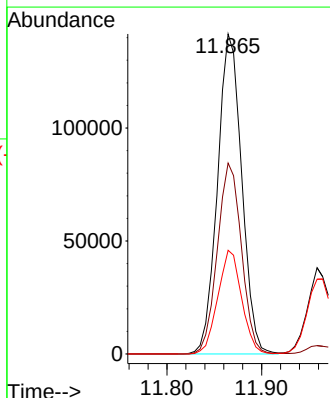
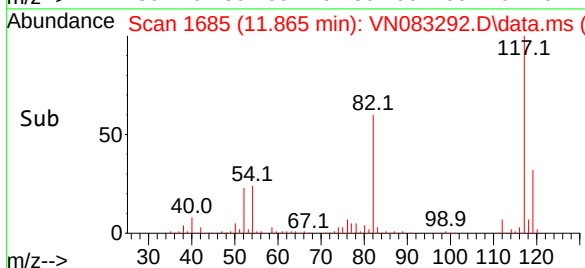
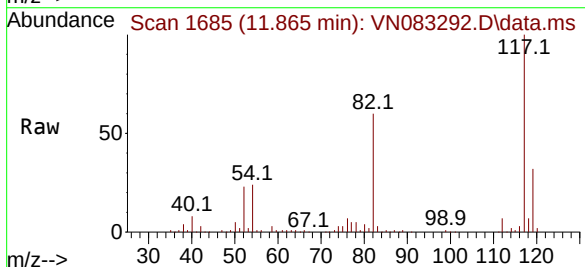
Manual Integrations
APPROVED

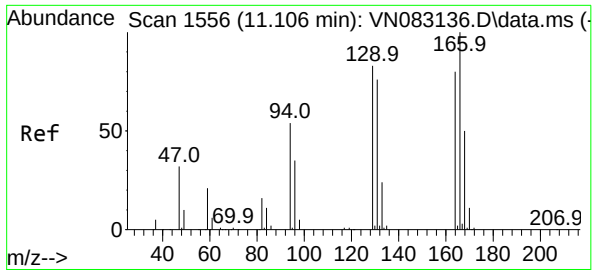
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

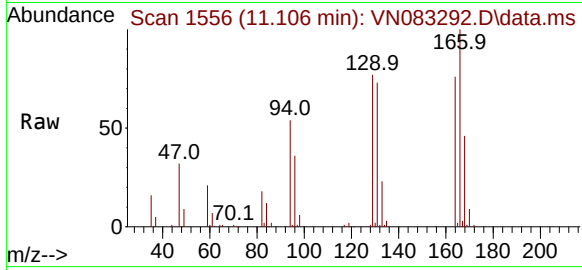
Tgt Ion:117 Resp: 251921
Ion Ratio Lower Upper
117 100
82 59.7 47.5 71.3
119 32.4 25.6 38.4





#64
Tetrachloroethene
Concen: 43.660 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

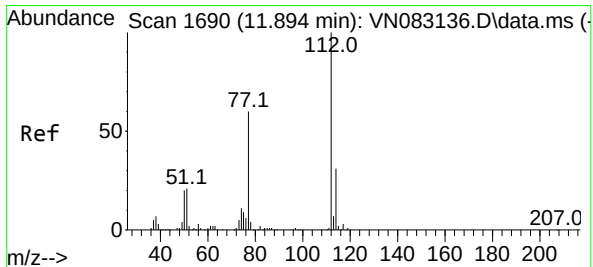
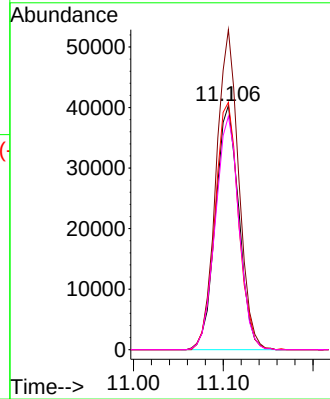
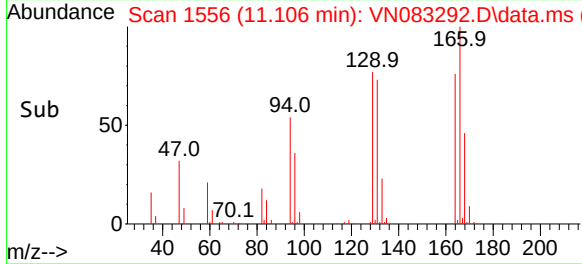
Instrument : MSVOA_N
ClientSampleId : 924-K1-WP0-0.25-080224MSD



Tgt Ion:164 Resp: 7284
Ion Ratio Lower Upper
164 100
166 131.1 101.4 152.0
129 101.3 75.7 113.5
131 95.6 73.8 110.6

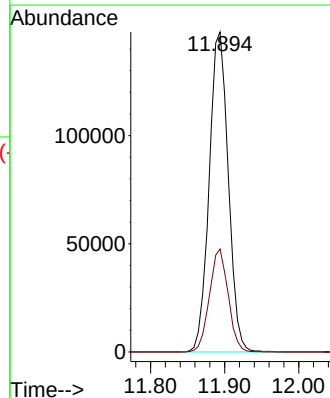
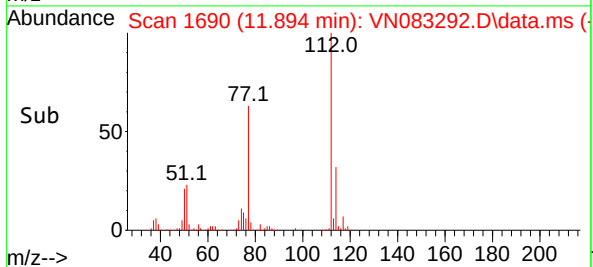
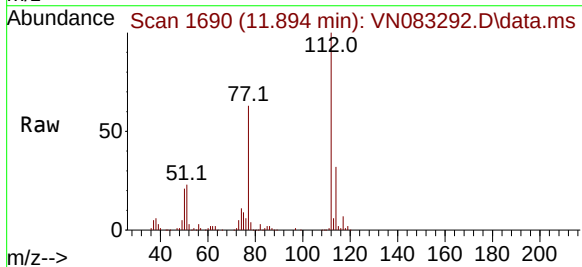
Manual Integrations
APPROVED

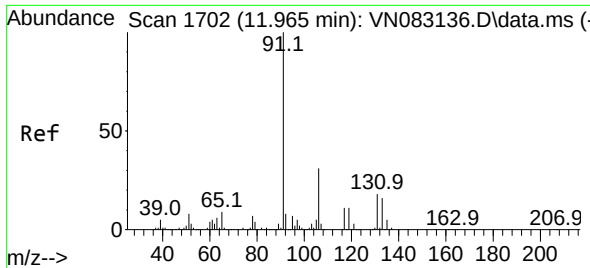
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#65
Chlorobenzene
Concen: 47.507 ug/l
RT: 11.894 min Scan# 1690
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

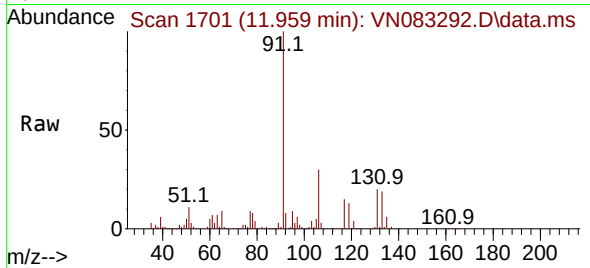
Tgt Ion:112 Resp: 264480
Ion Ratio Lower Upper
112 100
114 32.2 26.2 39.2





#66
1,1,1,2-Tetrachloroethane
Concen: 47.597 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

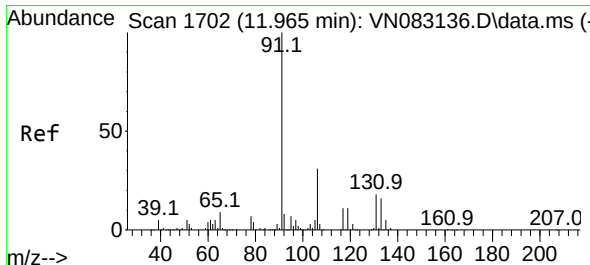
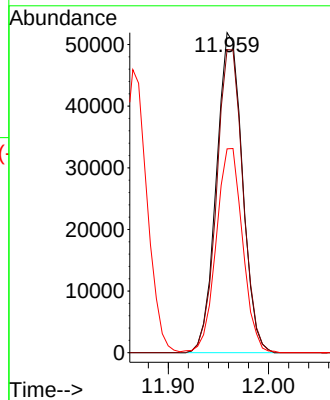
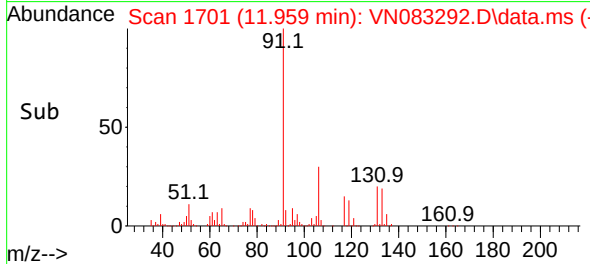
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD



Tgt Ion:131 Resp: 9345
Ion Ratio Lower Upper
131 100
133 96.0 47.3 142.0
119 65.1 32.5 97.4

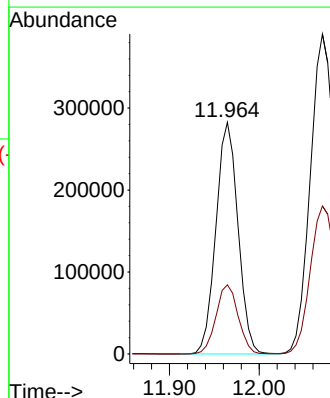
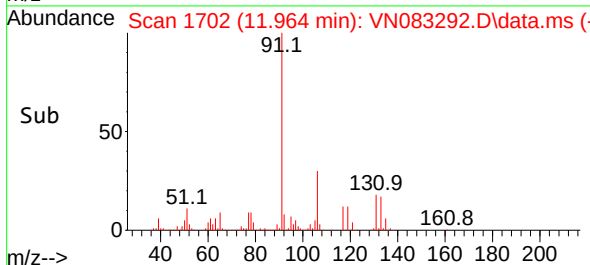
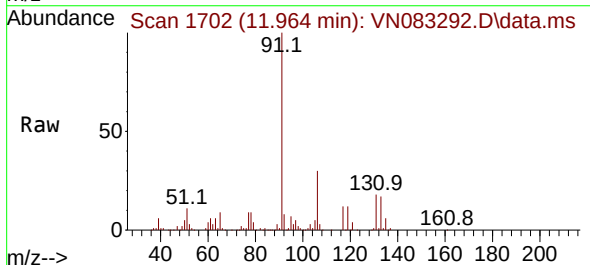
Manual Integrations
APPROVED

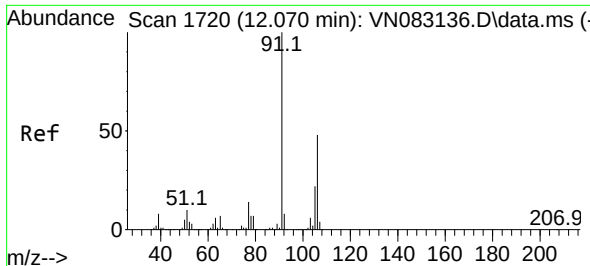
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#67
Ethyl Benzene
Concen: 47.225 ug/l
RT: 11.964 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

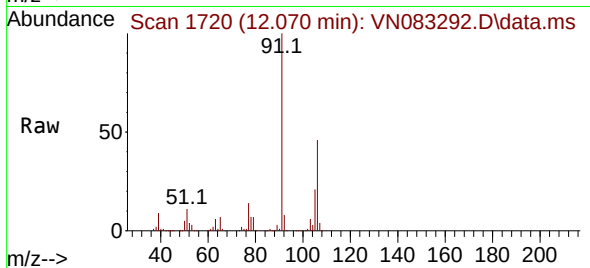
Tgt Ion: 91 Resp: 482297
Ion Ratio Lower Upper
91 100
106 29.8 24.0 36.0





#68
m/p-Xylenes
Concen: 93.715 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

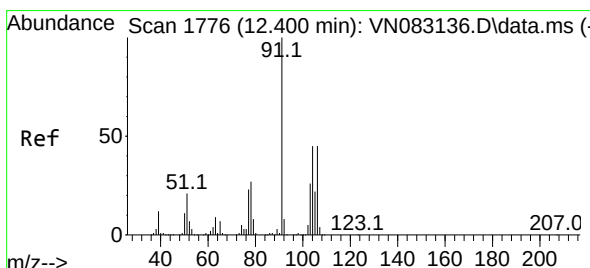
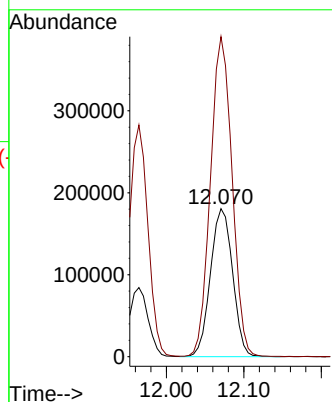
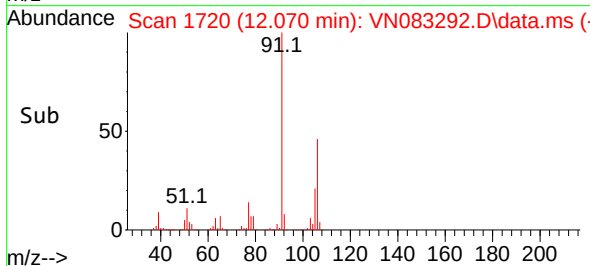
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD



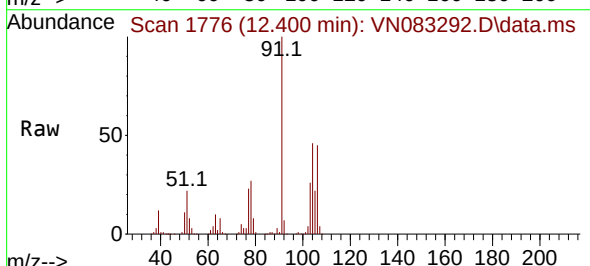
Tgt Ion:106 Resp: 358520
Ion Ratio Lower Upper
106 100
91 211.3 166.1 249.1

Manual Integrations
APPROVED

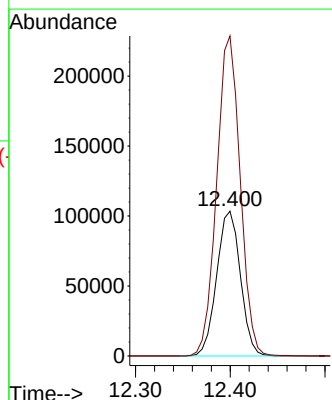
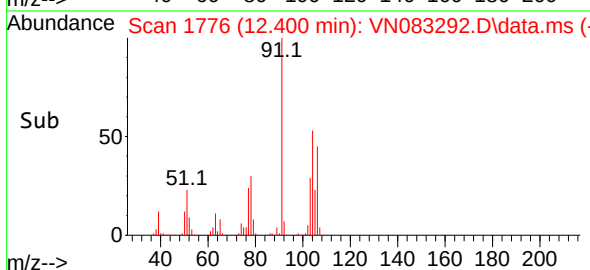
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

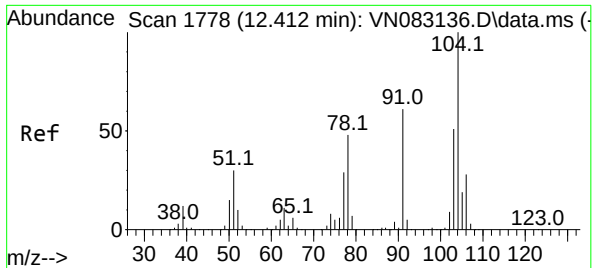


#69
o-Xylene
Concen: 47.699 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52



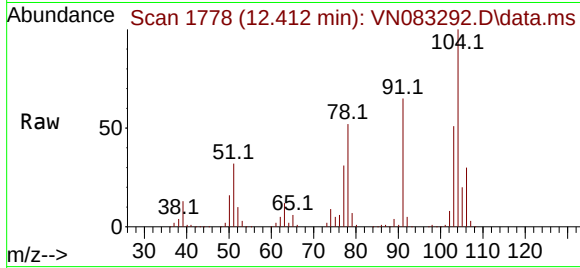
Tgt Ion:106 Resp: 179973
Ion Ratio Lower Upper
106 100
91 219.4 111.3 333.9





#70
Styrene
Concen: 47.487 ug/l
RT: 12.412 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

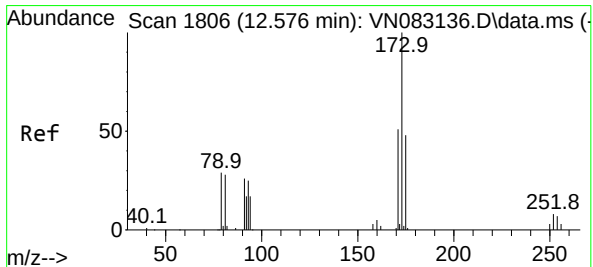
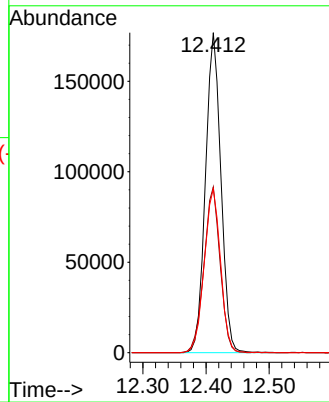
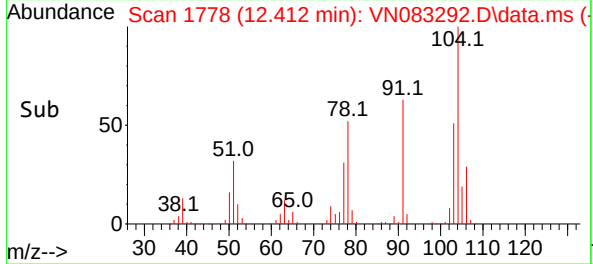
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD



Tgt Ion:104 Resp: 300930
Ion Ratio Lower Upper
104 100
78 54.0 41.6 62.4
103 53.9 44.0 66.0

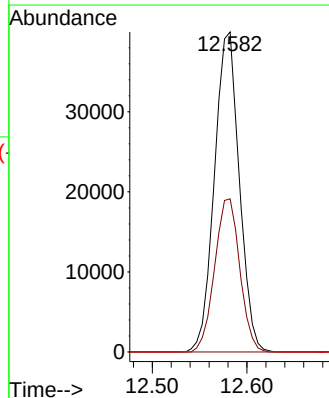
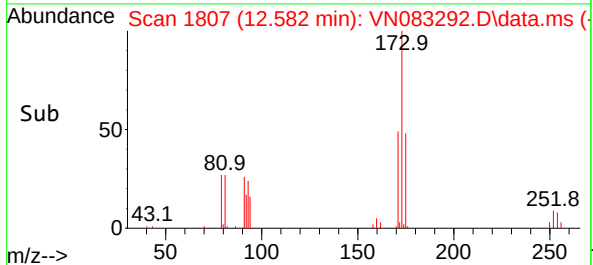
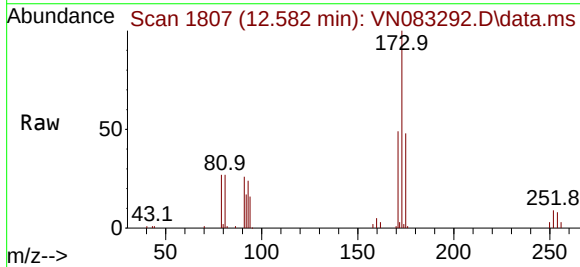
Manual Integrations
APPROVED

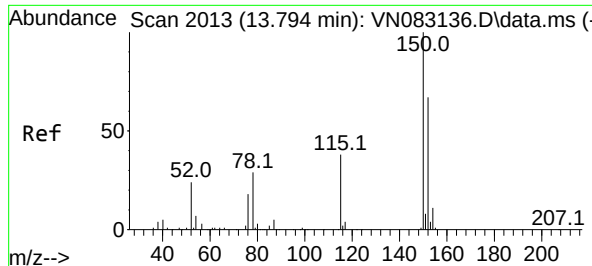
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#71
Bromoform
Concen: 49.032 ug/l
RT: 12.582 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

Tgt Ion:173 Resp: 72932
Ion Ratio Lower Upper
173 100
175 48.4 24.0 72.0
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. -0.000 min

Lab File: VN083292.D

Acq: 14 Aug 2024 10:52

Instrument :

MSVOA_N

ClientSampleId :

924-K1-WP0-0.25-080224MSD

Tgt Ion:152 Resp: 119630

Ion Ratio Lower Upper

152 100

115 64.8 30.6 91.6

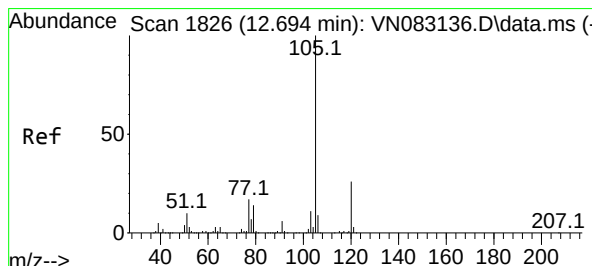
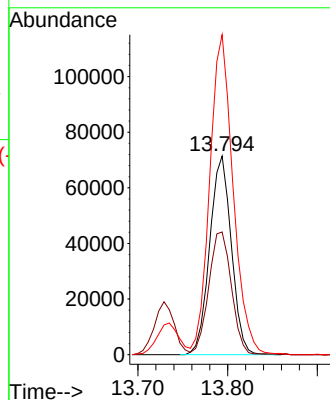
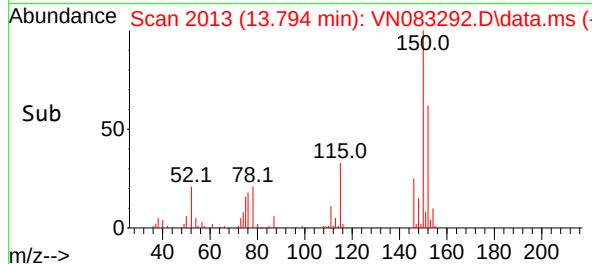
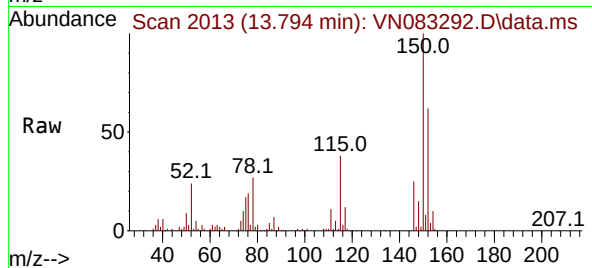
150 173.7 0.0 348.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024

Supervised By :Semsettin Yesilyurt 08/16/2024



#73

Isopropylbenzene

Concen: 46.088 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. -0.000 min

Lab File: VN083292.D

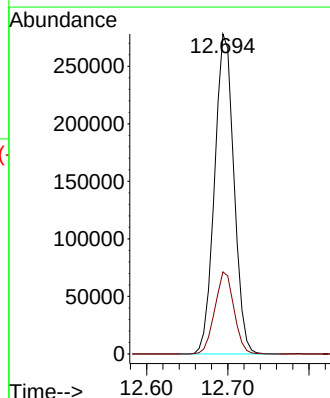
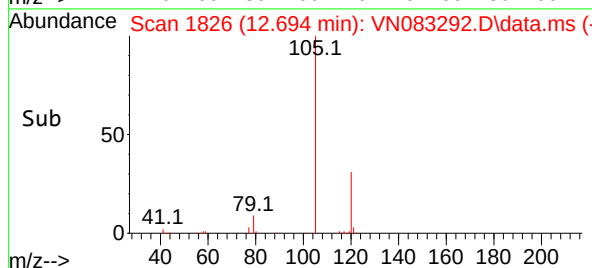
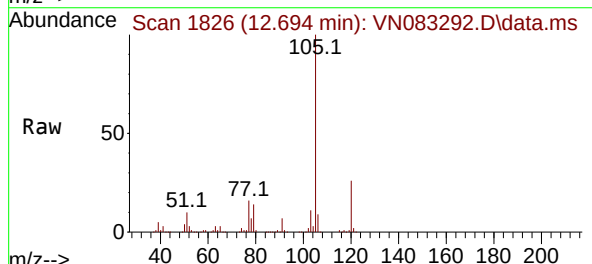
Acq: 14 Aug 2024 10:52

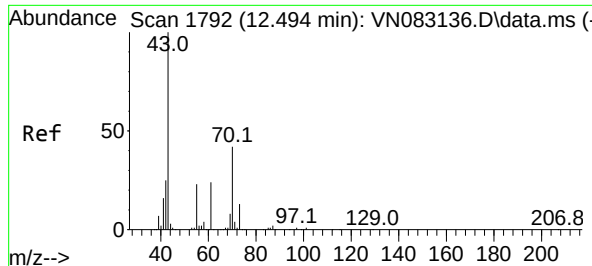
Tgt Ion:105 Resp: 461160

Ion Ratio Lower Upper

105 100

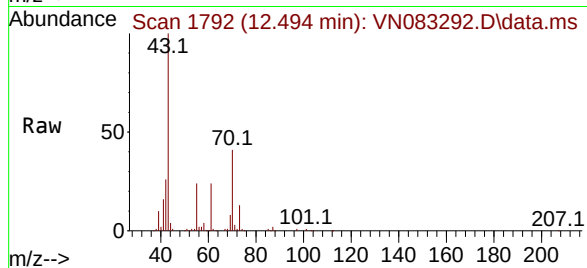
120 25.4 12.9 38.6





#74
N-amy1 acetate
Concen: 35.773 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

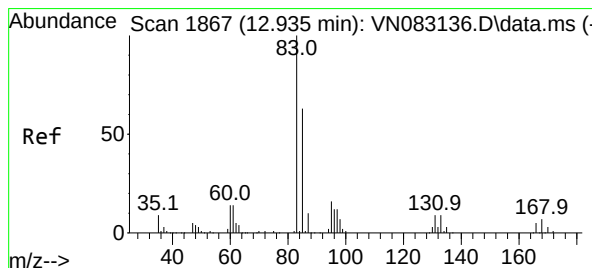
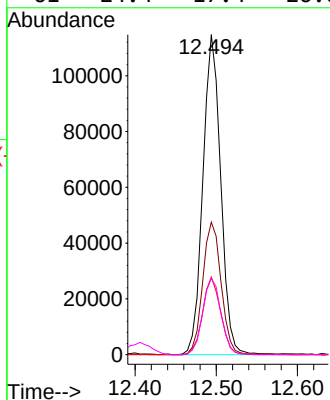
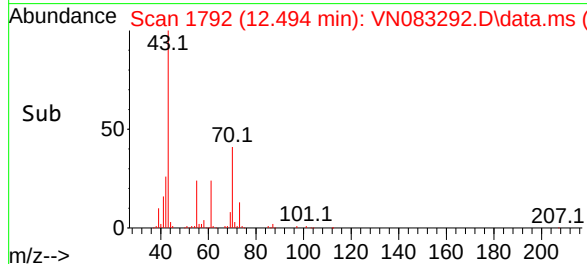
Instrument : MSVOA_N
ClientSampleId : 924-K1-WP0-0.25-080224MSD



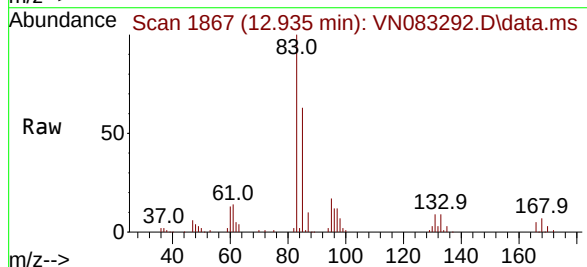
Tgt Ion: 43 Resp: 17508
Ion Ratio Lower Upper
43 100
70 42.6 29.8 44.6
55 24.5 18.7 28.1
61 24.4 17.4 26.0

Manual Integrations
APPROVED

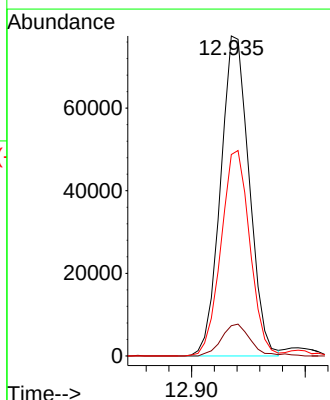
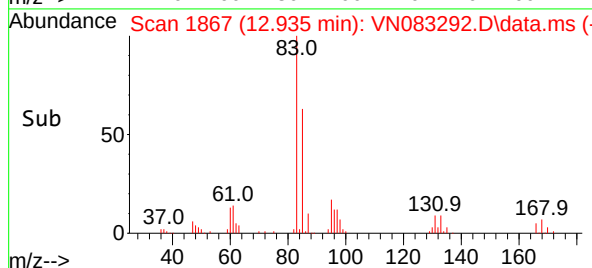
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

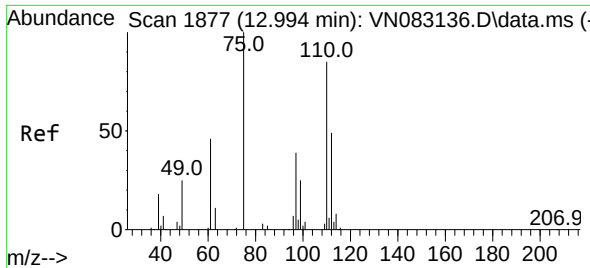


#75
1,1,2,2-Tetrachloroethane
Concen: 47.878 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52



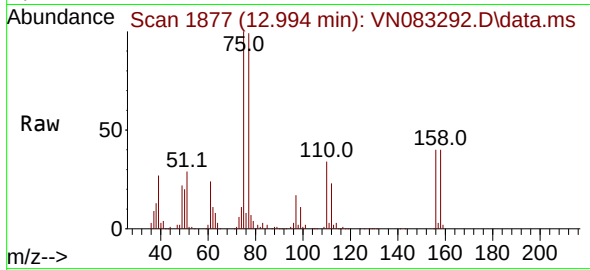
Tgt Ion: 83 Resp: 135499
Ion Ratio Lower Upper
83 100
131 10.1 5.0 14.9
85 64.7 31.9 95.7





#76
1,2,3-Trichloropropane
Concen: 40.409 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

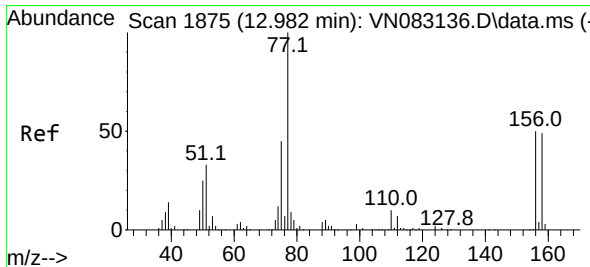
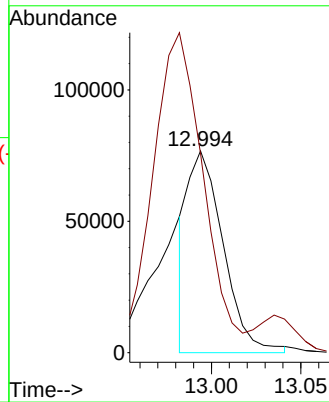
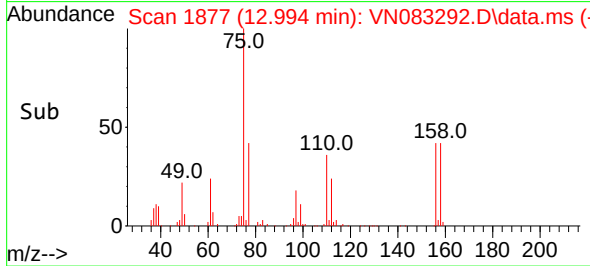
Instrument : MSVOA_N
ClientSampleId : 924-K1-WP0-0.25-080224MSD



Tgt Ion: 75 Resp: 106098
Ion Ratio Lower Upper
75 100
77 225.6 110.9 332.6

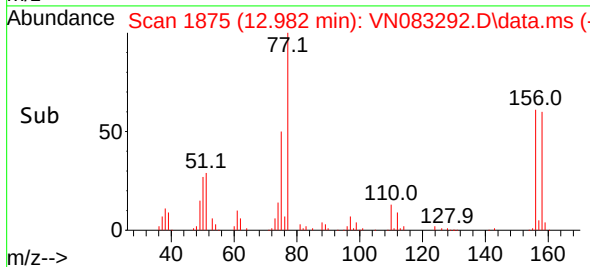
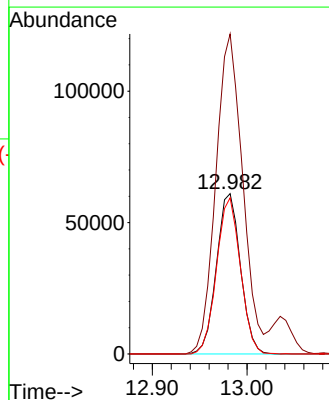
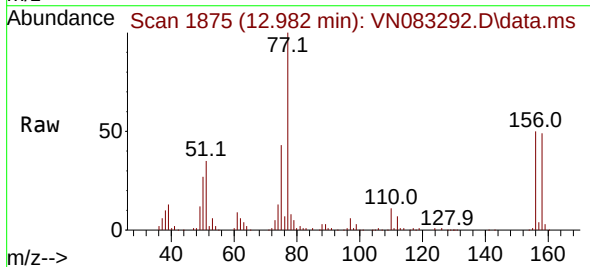
Manual Integrations
APPROVED

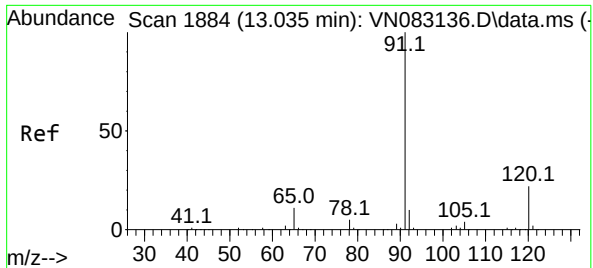
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#77
Bromobenzene
Concen: 48.344 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

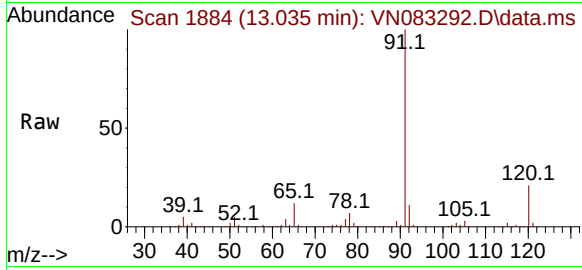
Tgt Ion:156 Resp: 107457
Ion Ratio Lower Upper
156 100
77 222.7 111.3 333.8
158 96.6 48.3 144.9





#78
n-propylbenzene
Concen: 45.963 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

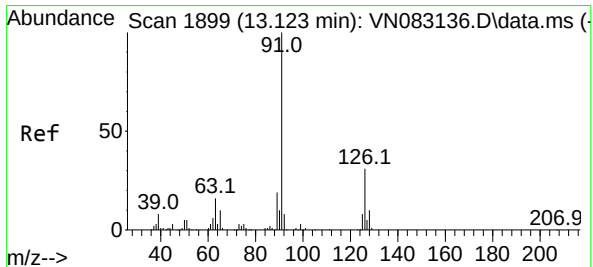
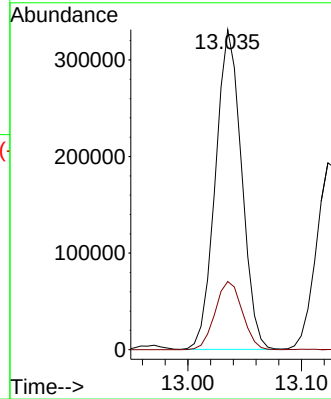
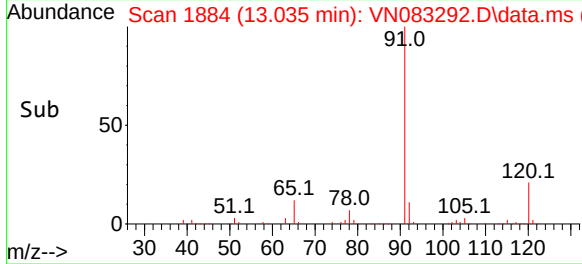
Instrument : MSVOA_N
ClientSampleId : 924-K1-WP0-0.25-080224MSD



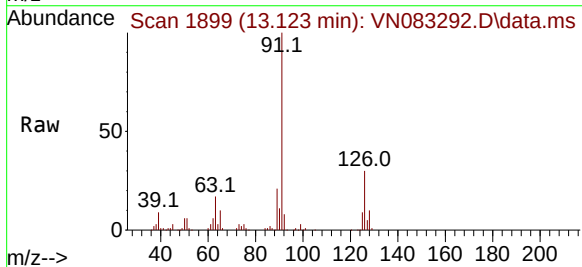
Tgt Ion: 91 Resp: 529574
Ion Ratio Lower Upper
91 100
120 22.1 10.9 32.9

Manual Integrations
APPROVED

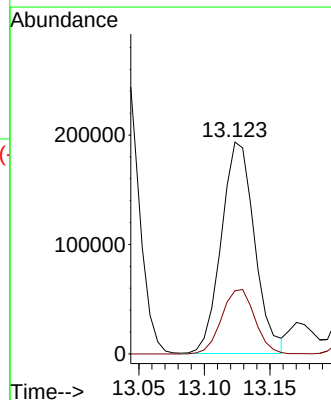
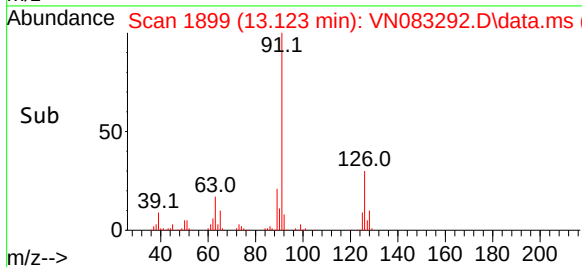
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

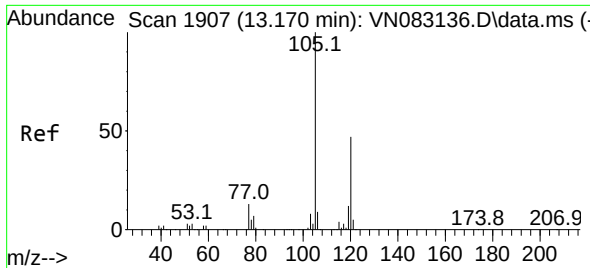


#79
2-Chlorotoluene
Concen: 46.651 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52



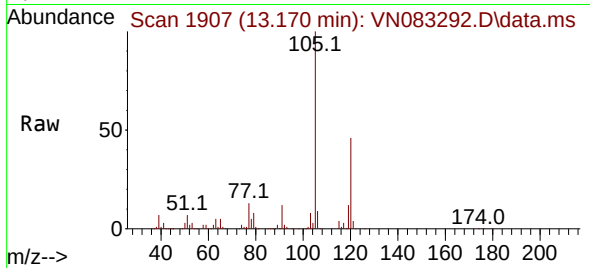
Tgt Ion: 91 Resp: 340781
Ion Ratio Lower Upper
91 100
126 30.4 16.2 48.6





#80
1,3,5-Trimethylbenzene
Concen: 46.486 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

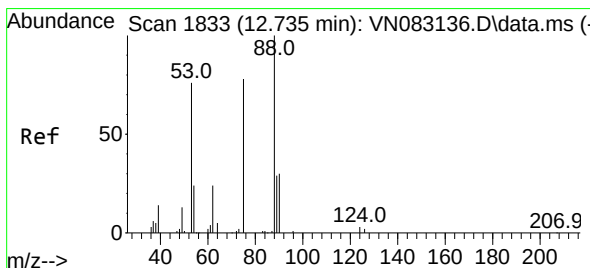
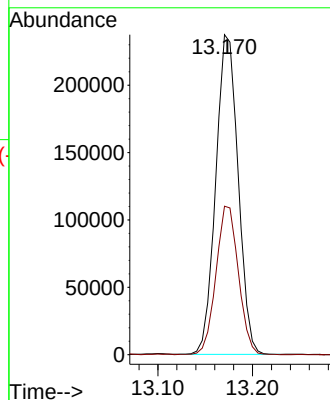
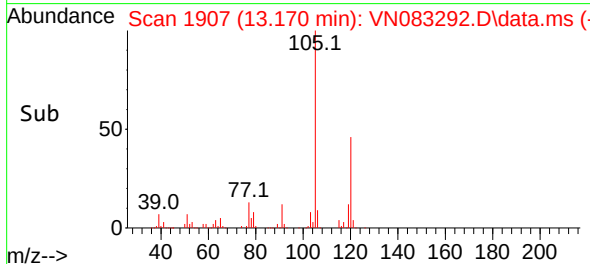
Instrument : MSVOA_N
ClientSampleId : 924-K1-WP0-0.25-080224MSD



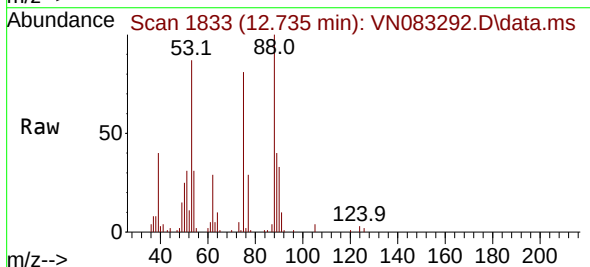
Tgt Ion: 105 Resp: 389428
Ion Ratio Lower Upper
105 100
120 46.7 24.3 72.8

Manual Integrations
APPROVED

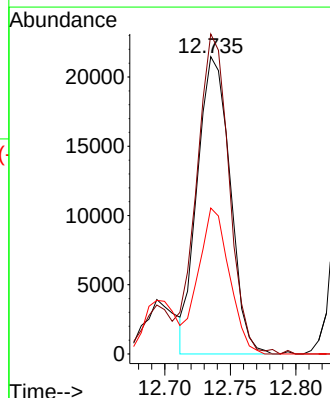
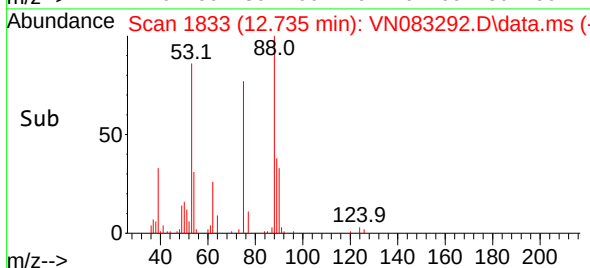
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

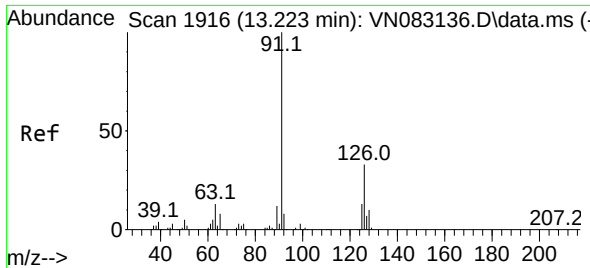


#81
trans-1,4-Dichloro-2-butene
Concen: 30.801 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52



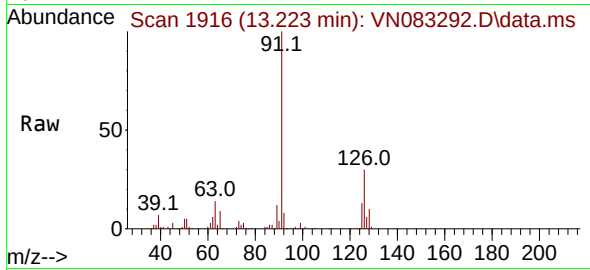
Tgt Ion: 75 Resp: 37178
Ion Ratio Lower Upper
75 100
53 107.9 88.4 132.6
89 47.1 36.3 54.5





#82
4-Chlorotoluene
Concen: 46.537 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

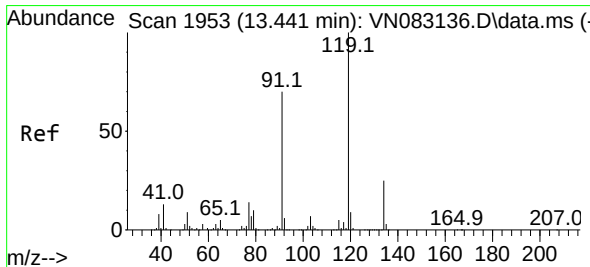
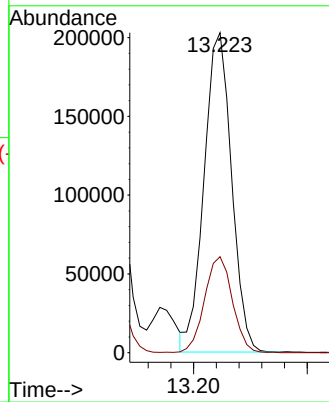
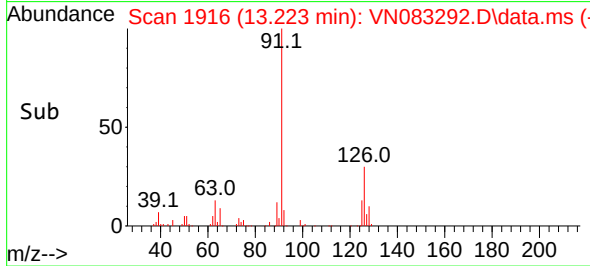
Instrument : MSVOA_N
ClientSampleId : 924-K1-WP0-0.25-080224MSD



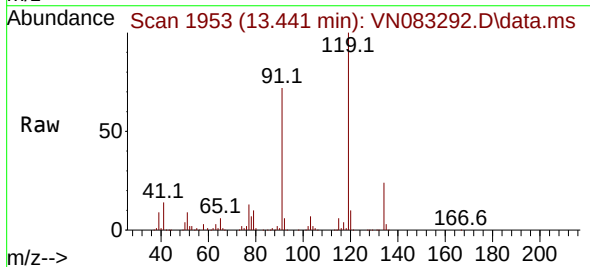
Tgt Ion: 91 Resp: 34098
Ion Ratio Lower Upper
91 100
126 30.4 16.2 48.6

Manual Integrations
APPROVED

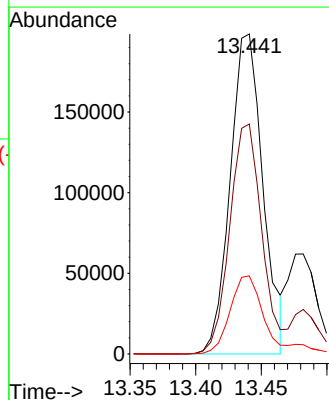
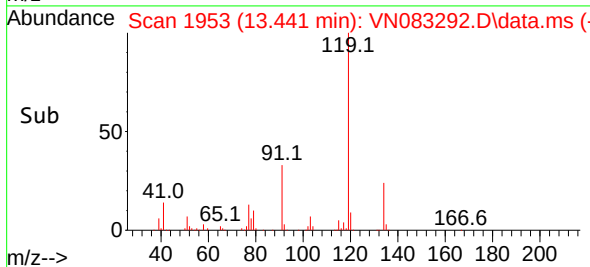
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

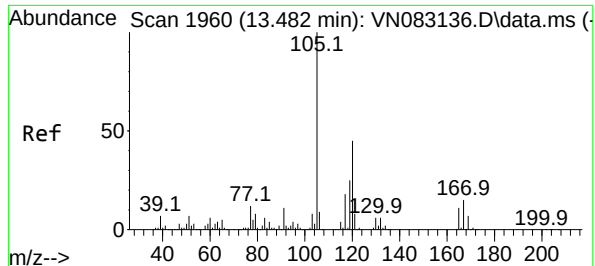


#83
tert-Butylbenzene
Concen: 46.497 ug/l
RT: 13.441 min Scan# 1953
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52



Tgt Ion:119 Resp: 344950
Ion Ratio Lower Upper
119 100
91 70.0 35.0 105.1
134 26.3 13.3 39.8





#84

1,2,4-Trimethylbenzene

Concen: 46.717 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. -0.000 min

Lab File: VN083292.D

Acq: 14 Aug 2024 10:52

Instrument :

MSVOA_N

ClientSampleId :

924-K1-WP0-0.25-080224MSD

Tgt Ion:105 Resp: 394404

Ion Ratio Lower Upper

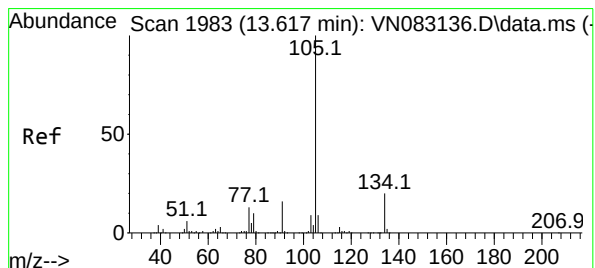
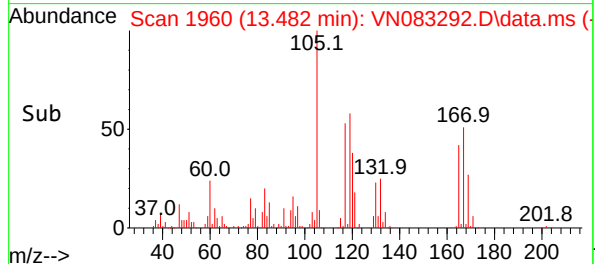
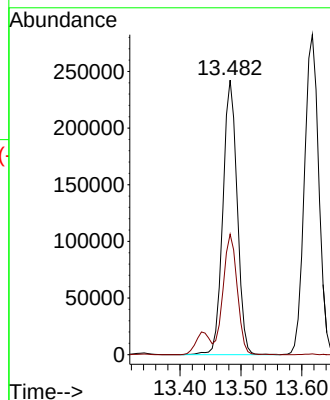
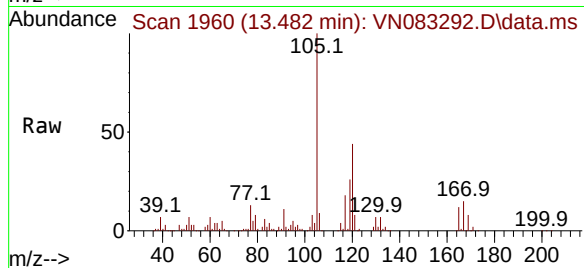
105 100

120 43.6 21.9 65.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#85

sec-Butylbenzene

Concen: 45.708 ug/l

RT: 13.617 min Scan# 1983

Delta R.T. -0.000 min

Lab File: VN083292.D

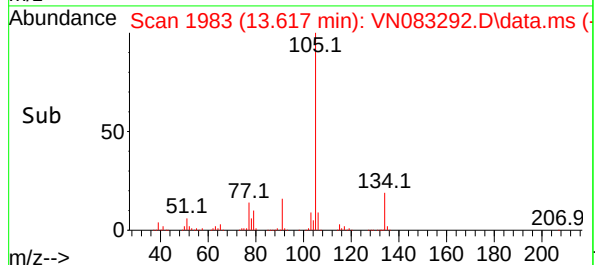
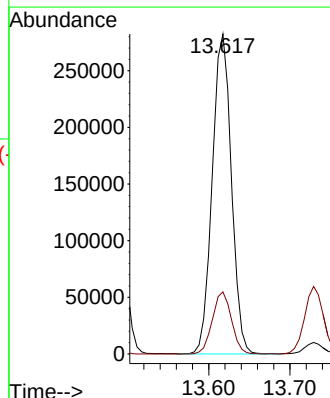
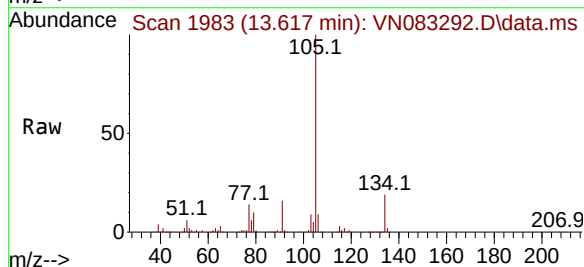
Acq: 14 Aug 2024 10:52

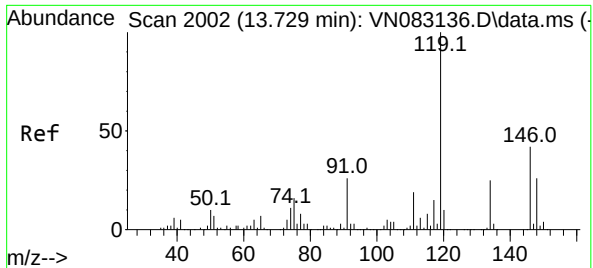
Tgt Ion:105 Resp: 462695

Ion Ratio Lower Upper

105 100

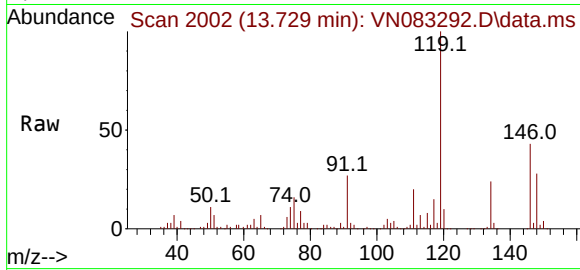
134 19.3 9.8 29.3





#86
p-Isopropyltoluene
Concen: 45.994 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

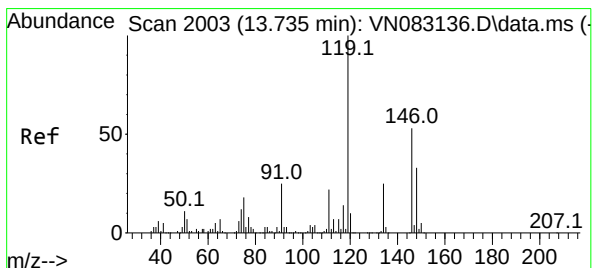
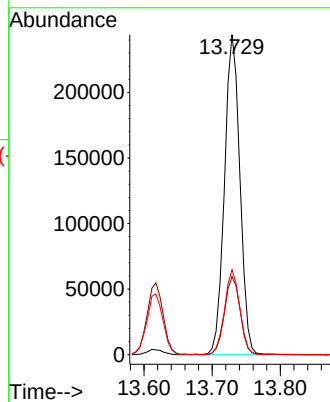
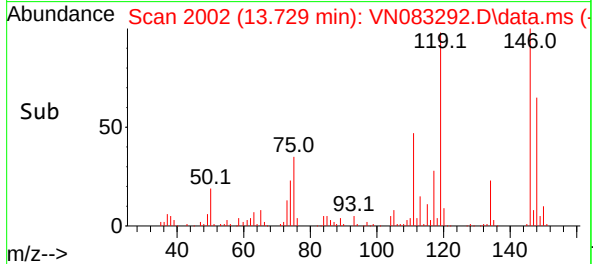
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD



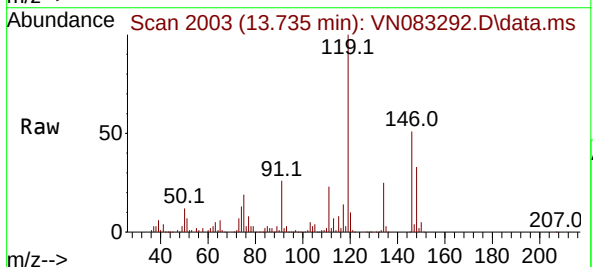
Tgt Ion:119 Resp: 38443
Ion Ratio Lower Upper
119 100
134 24.9 13.0 39.0
91 26.0 12.3 36.9

Manual Integrations
APPROVED

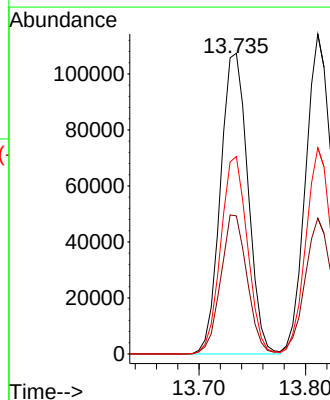
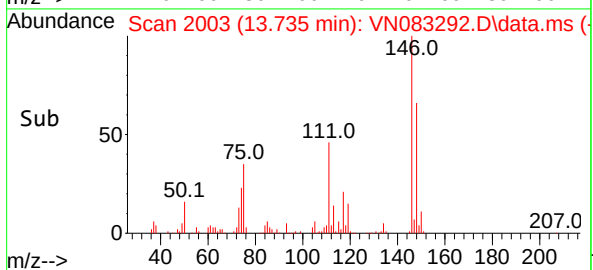
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

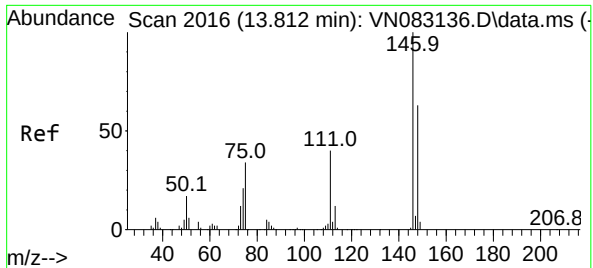


#87
1,3-Dichlorobenzene
Concen: 45.956 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52



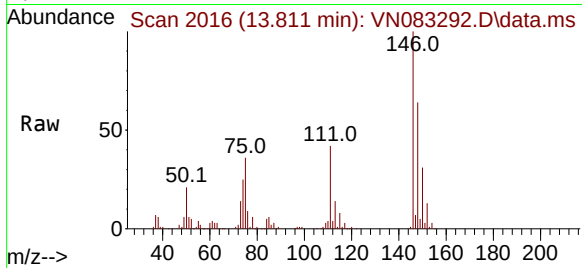
Tgt Ion:146 Resp: 192209
Ion Ratio Lower Upper
146 100
111 44.3 20.6 61.9
148 63.7 31.8 95.3





#88
1,4-Dichlorobenzene
Concen: 45.977 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

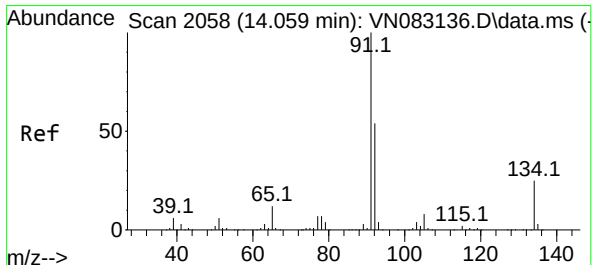
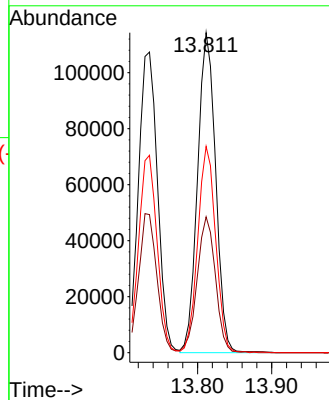
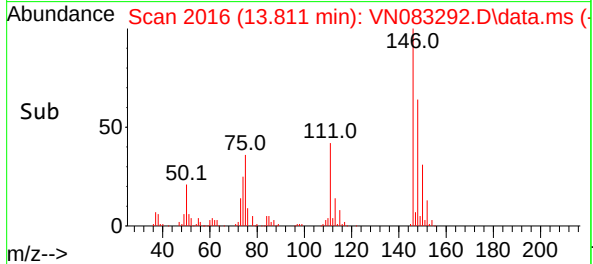
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD



Tgt Ion:146 Resp: 19386
Ion Ratio Lower Upper
146 100
111 42.4 20.1 60.3
148 63.9 32.2 96.6

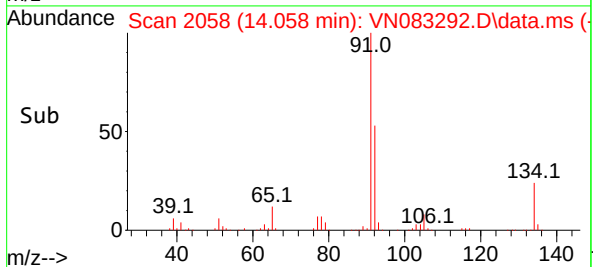
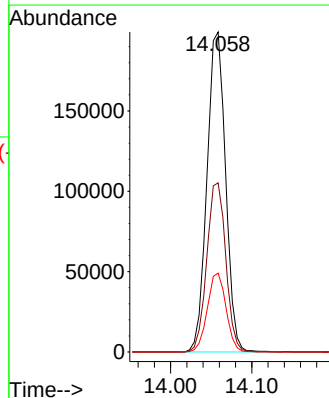
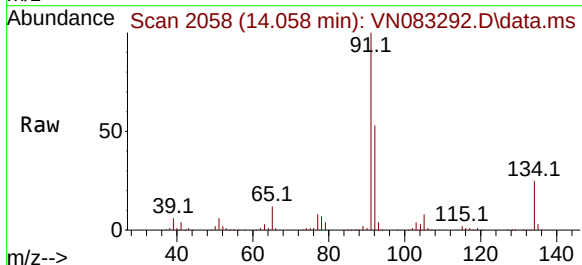
Manual Integrations
APPROVED

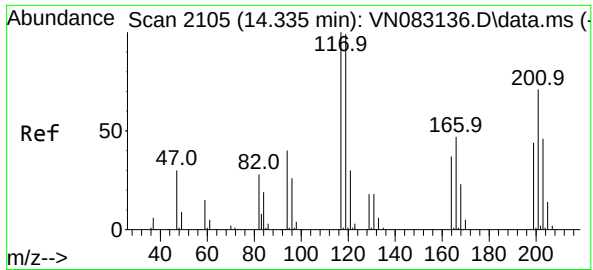
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#89
n-Butylbenzene
Concen: 43.772 ug/l
RT: 14.058 min Scan# 2058
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

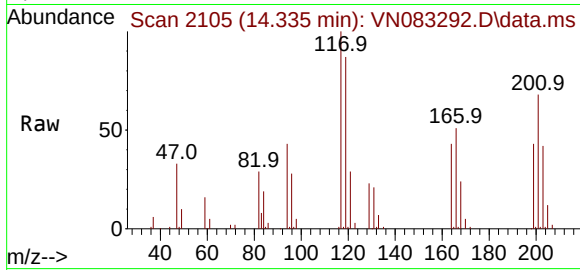
Tgt Ion: 91 Resp: 317014
Ion Ratio Lower Upper
91 100
92 54.0 26.1 78.3
134 24.7 12.1 36.3





#90
Hexachloroethane
Concen: 45.856 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

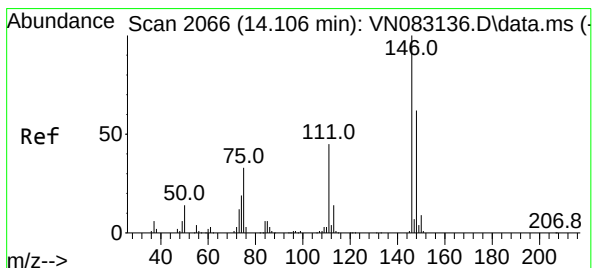
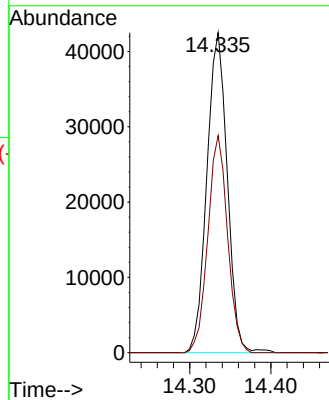
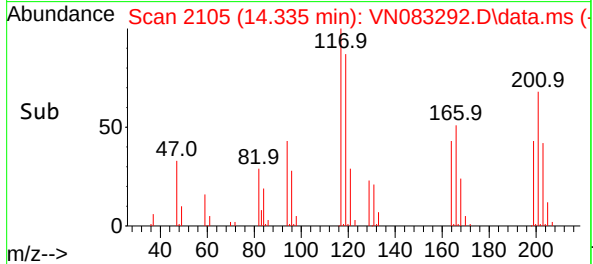
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD



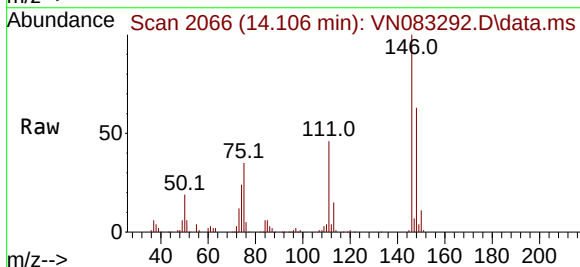
Tgt Ion:117 Resp: 74049
Ion Ratio Lower Upper
117 100
201 65.6 35.8 107.3

Manual Integrations
APPROVED

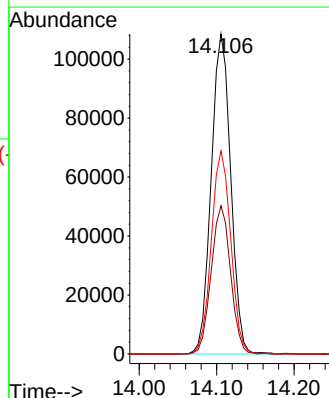
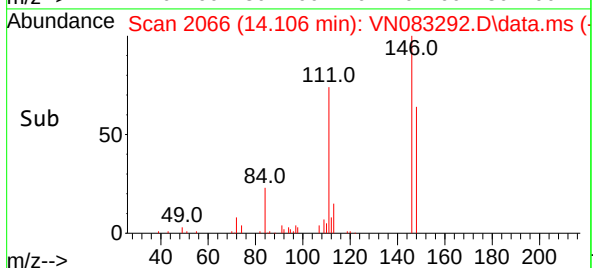
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024

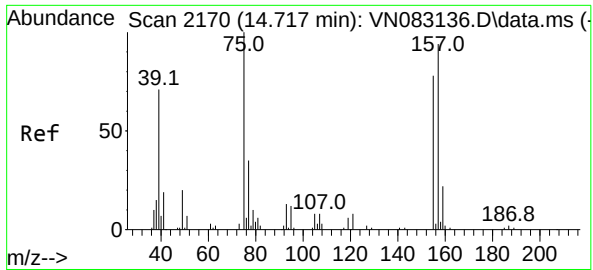


#91
1,2-Dichlorobenzene
Concen: 46.883 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52



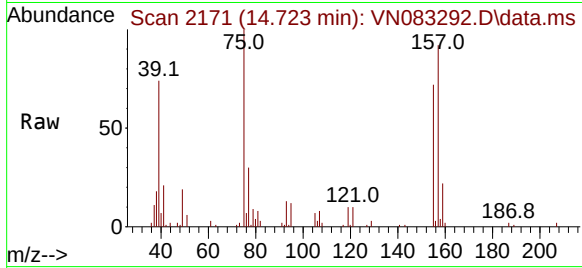
Tgt Ion:146 Resp: 189753
Ion Ratio Lower Upper
146 100
111 45.9 21.4 64.2
148 63.3 32.1 96.5





#92
1,2-Dibromo-3-Chloropropane
Concen: 43.807 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.006 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

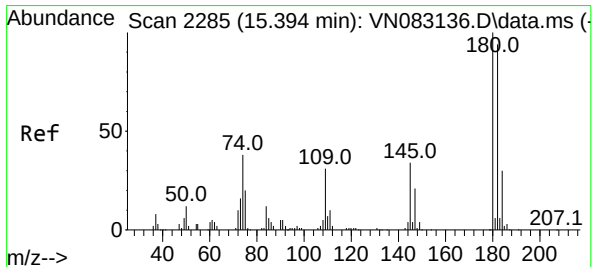
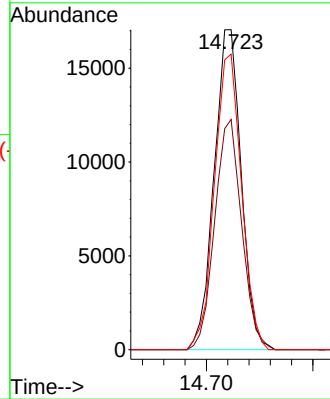
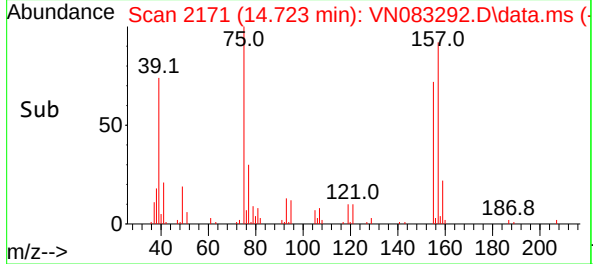
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD



Tgt Ion: 75 Resp: 30084
Ion Ratio Lower Upper
75 100
155 71.7 36.6 109.8
157 92.5 46.9 140.6

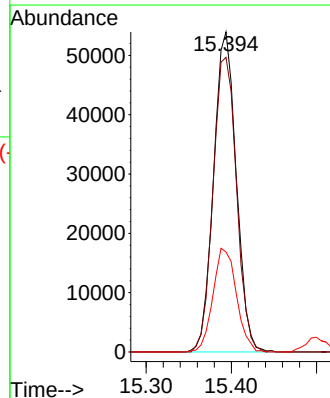
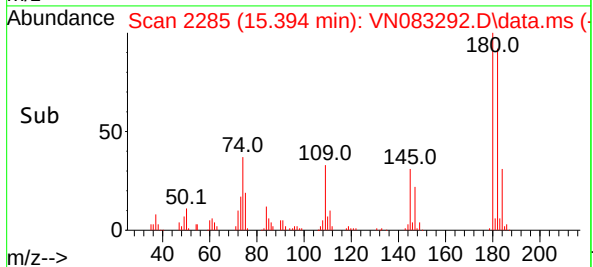
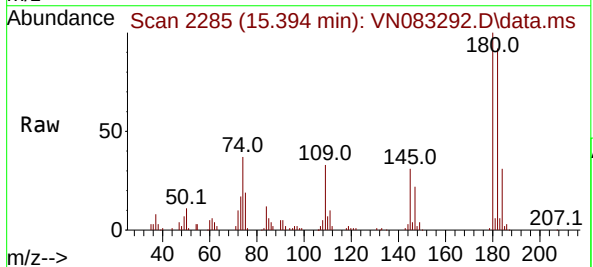
Manual Integrations
APPROVED

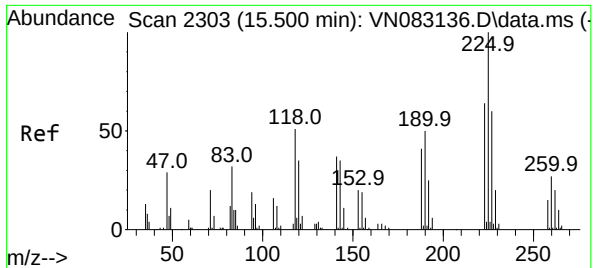
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#93
1,2,4-Trichlorobenzene
Concen: 43.935 ug/l
RT: 15.394 min Scan# 2285
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

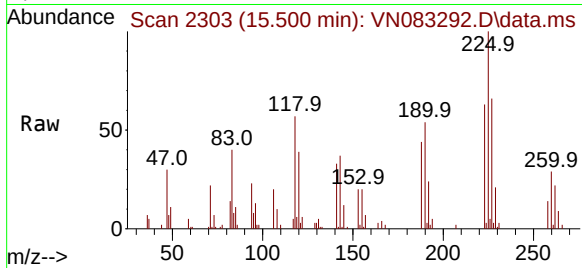
Tgt Ion:180 Resp: 99622
Ion Ratio Lower Upper
180 100
182 95.4 47.3 141.8
145 33.6 15.7 47.1





#94
Hexachlorobutadiene
Concen: 39.552 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

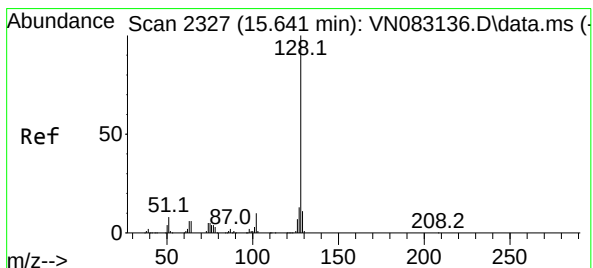
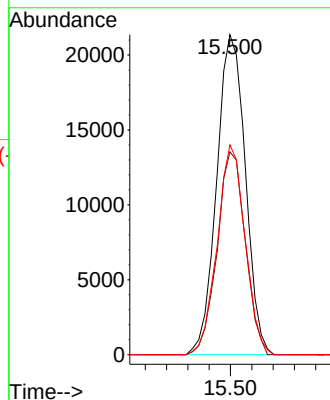
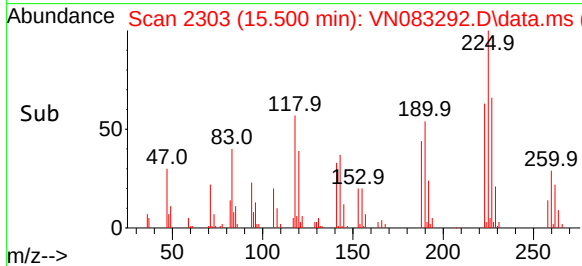
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD



Tgt Ion:225 Resp: 3988
Ion Ratio Lower Upper
225 100
223 61.9 31.9 95.7
227 63.8 32.5 97.5

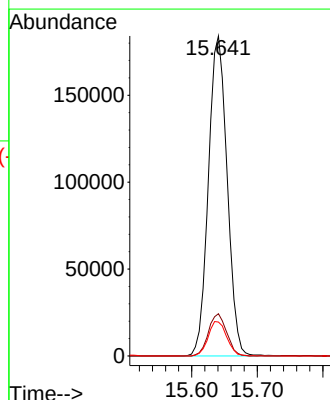
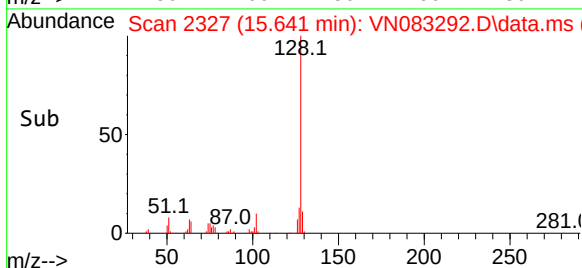
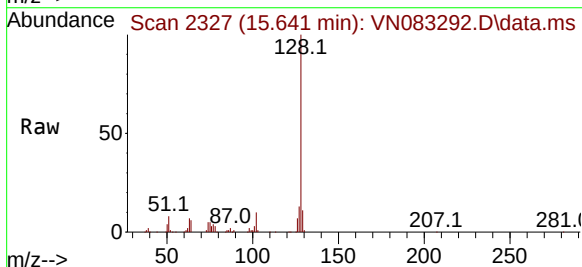
Manual Integrations
APPROVED

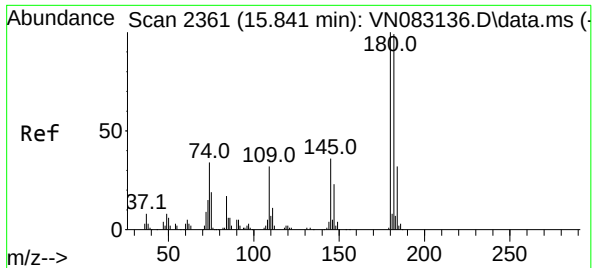
Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



#95
Naphthalene
Concen: 45.567 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

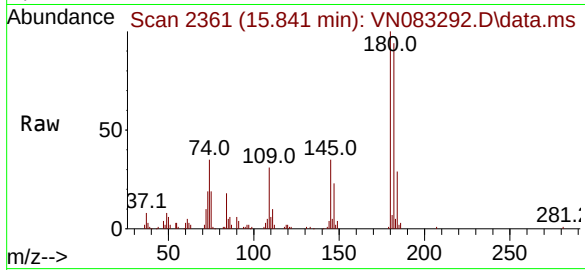
Tgt Ion:128 Resp: 365990
Ion Ratio Lower Upper
128 100
127 12.8 10.6 16.0
129 10.7 8.6 12.8





#96
1,2,3-Trichlorobenzene
Concen: 45.203 ug/l
RT: 15.841 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN083292.D
Acq: 14 Aug 2024 10:52

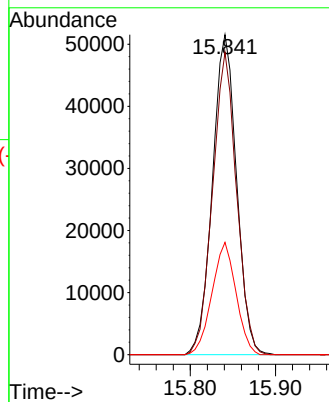
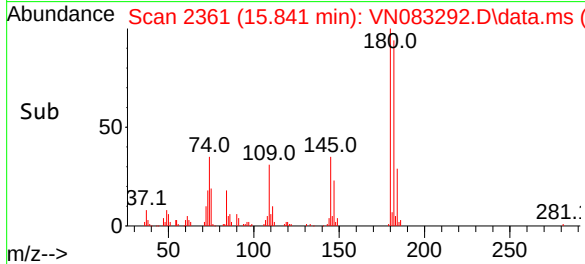
Instrument :
MSVOA_N
ClientSampleId :
924-K1-WP0-0.25-080224MSD



Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.6	48.9	146.8
145	35.0	16.8	50.4

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/16/2024
Supervised By :Semsettin Yesilyurt 08/16/2024



Manual Integration Report

Sequence:	vn080724	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN083135.D	1,2,3-Trichloropropane	JOHN	8/8/2024 9:35:12 AM	MMDadoda	8/9/2024 6:15:44 AM	Peak Integrated by Software
VSTDICCC050	VN083136.D	1,2,3-Trichloropropane	JOHN	8/8/2024 9:35:17 AM	MMDadoda	8/9/2024 6:15:45 AM	Peak Integrated by Software
VSTDICCC050	VN083136.D	Vinyl Acetate	JOHN	8/8/2024 9:35:17 AM	MMDadoda	8/9/2024 6:15:45 AM	Peak Integrated by Software
VSTDICC020	VN083137.D	1,2,3-Trichloropropane	JOHN	8/8/2024 9:35:21 AM	MMDadoda	8/9/2024 6:15:46 AM	Peak Integrated by Software
VSTDICC020	VN083137.D	Vinyl Acetate	JOHN	8/8/2024 9:35:21 AM	MMDadoda	8/9/2024 6:15:46 AM	Peak Integrated by Software
VSTDICC010	VN083138.D	1,2,3-Trichloropropane	JOHN	8/8/2024 9:35:26 AM	MMDadoda	8/9/2024 6:15:48 AM	Peak Integrated by Software
VSTDICC005	VN083139.D	1,2,3-Trichloropropane	JOHN	8/8/2024 9:35:30 AM	MMDadoda	8/9/2024 6:15:49 AM	Peak Integrated by Software
VSTDICC005	VN083139.D	Vinyl Acetate	JOHN	8/8/2024 9:35:30 AM	MMDadoda	8/9/2024 6:15:49 AM	Peak Integrated by Software
VSTDICC001	VN083140.D	1,2,3-Trichloropropane	JOHN	8/8/2024 9:35:34 AM	MMDadoda	8/9/2024 6:15:51 AM	Peak Integrated by Software
VSTDICC001	VN083140.D	1,4-Dichlorobenzene	JOHN	8/8/2024 9:35:34 AM	MMDadoda	8/9/2024 6:15:51 AM	Peak Integrated by Software
VSTDICV050	VN083142.D	1,2,3-Trichloropropane	JOHN	8/8/2024 9:35:41 AM	MMDadoda	8/9/2024 6:15:52 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	vn081324	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN083246.D	1,2,3-Trichloropropane	MMDadoda	8/14/2024 5:14:33 AM	SAM	8/14/2024 5:25:05 AM	Peak Integrated by Software
VSTDCCC050	VN083246.D	Vinyl Acetate	MMDadoda	8/14/2024 5:14:33 AM	SAM	8/14/2024 5:25:05 AM	Peak Integrated by Software
VSTDCCC050	VN083271.D	1,2,3-Trichloropropane	MMDadoda	8/14/2024 5:14:48 AM	SAM	8/14/2024 5:25:19 AM	Peak Integrated by Software
VSTDCCC050	VN083271.D	Vinyl Acetate	MMDadoda	8/14/2024 5:14:48 AM	SAM	8/14/2024 5:25:19 AM	Peak Integrated by Software
VSTDCCC050	VN083273.D	1,2,3-Trichloropropane	JOHN	8/14/2024 9:36:48 AM	MMDadoda	8/14/2024 6:38:01 PM	Peak Integrated by Software
VSTDCCC050	VN083273.D	Vinyl Acetate	JOHN	8/14/2024 9:36:48 AM	MMDadoda	8/14/2024 6:38:01 PM	Peak Integrated by Software
VN0813WBS03	VN083276.D	1,2,3-Trichloropropane	JOHN	8/14/2024 9:36:57 AM	MMDadoda	8/14/2024 6:38:04 PM	Peak Integrated by Software
P3466-02MS	VN083291.D	1,2,3-Trichloropropane	MMDadoda	8/16/2024 4:11:03 AM	SAM	8/16/2024 4:11:50 AM	Peak Integrated by Software
P3466-03MSD	VN083292.D	1,2,3-Trichloropropane	MMDadoda	8/16/2024 4:11:05 AM	SAM	8/16/2024 4:11:52 AM	Peak Integrated by Software

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN080724

Review By	John Carlone	Review On	8/8/2024 9:36:00 AM
Supervise By	Maresh Dadoda	Supervise On	8/9/2024 6:16:03 AM
SubDirectory	VN080724	HP Acquire Method	HP Processing Method 82N080724W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP129516		
Initial Calibration Stds	VP129526,VP129527,VP129528,VP129529,VP129530,VP129531		
CCC			
Internal Standard/PEM			
ICV/I.BLK	VP129532		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN083134.D	07 Aug 2024 10:09	JC\MD	Ok
2	VSTDICC100	VN083135.D	07 Aug 2024 10:33	JC\MD	Ok,M
3	VSTDICCC050	VN083136.D	07 Aug 2024 10:58	JC\MD	Ok,M
4	VSTDICC020	VN083137.D	07 Aug 2024 11:22	JC\MD	Ok,M
5	VSTDICC010	VN083138.D	07 Aug 2024 11:46	JC\MD	Ok,M
6	VSTDICC005	VN083139.D	07 Aug 2024 12:10	JC\MD	Ok,M
7	VSTDICC001	VN083140.D	07 Aug 2024 12:34	JC\MD	Ok,M
8	IBLK	VN083141.D	07 Aug 2024 13:22	JC\MD	Ok
9	VSTDICV050	VN083142.D	07 Aug 2024 14:49	JC\MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN081324

Review By	Mahesh Dadoda	Review On	8/14/2024 5:15:42 AM
Supervise By	Semsettin Yesilyurt	Supervise On	8/14/2024 5:25:48 AM
SubDirectory	VN081324	HP Acquire Method	HP Processing Method 82N080724W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP129669,VP129708		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP129670,VP129671,VP129701,VP129702,VP129703,VP129704,VP129709,VP129710		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN083245.D	13 Aug 2024 09:54	JC\MD	Ok
2	VSTDCCC050	VN083246.D	13 Aug 2024 10:18	JC\MD	Ok,M
3	VN0813MBL01	VN083247.D	13 Aug 2024 10:52	JC\MD	Ok
4	VN0813WBL01	VN083248.D	13 Aug 2024 11:16	JC\MD	Ok
5	VN0813WBS01	VN083249.D	13 Aug 2024 11:40	JC\MD	Ok,M
6	P3429-02	VN083250.D	13 Aug 2024 12:06	JC\MD	Ok
7	P3440-01	VN083251.D	13 Aug 2024 12:30	JC\MD	Ok
8	P3440-02MS	VN083252.D	13 Aug 2024 12:55	JC\MD	Ok,M
9	P3440-03MSD	VN083253.D	13 Aug 2024 13:19	JC\MD	Ok,M
10	VN0813MBS01	VN083254.D	13 Aug 2024 13:43	JC\MD	Ok,M
11	P3393-20DL2	VN083255.D	13 Aug 2024 14:07	JC\MD	Ok
12	P3429-04	VN083256.D	13 Aug 2024 14:31	JC\MD	Ok
13	P3390-07 0.2PPB	VN083257.D	13 Aug 2024 14:55	JC\MD	Ok,M
14	P3390-07 0.5PPB	VN083258.D	13 Aug 2024 15:19	JC\MD	Ok,M
15	P3390-07 0.75PPB	VN083259.D	13 Aug 2024 15:43	JC\MD	Ok,M
16	P3390-07 2.5PPB	VN083260.D	13 Aug 2024 16:07	JC\MD	Ok,M
17	P3440-04	VN083261.D	13 Aug 2024 16:31	JC\MD	Ok
18	P3440-05	VN083262.D	13 Aug 2024 16:56	JC\MD	Ok
19	P3543-02	VN083263.D	13 Aug 2024 17:20	JC\MD	Ok
20	P3548-05	VN083264.D	13 Aug 2024 17:44	JC\MD	Ok
21	P3548-08	VN083265.D	13 Aug 2024 18:08	JC\MD	Ok

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN081324

Review By	Maresh Dadoda	Review On	8/14/2024 5:15:42 AM
Supervise By	Semsettin Yesilyurt	Supervise On	8/14/2024 5:25:48 AM
SubDirectory	VN081324	HP Acquire Method	HP Processing Method 82N080724W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP129669,VP129708		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP129670,VP129671,VP129701,VP129702,VP129703,VP129704,VP129709,VP129710		

22	P3548-11	VN083266.D	13 Aug 2024 18:33	JC\MD	Ok
23	P3548-14	VN083267.D	13 Aug 2024 18:57	JC\MD	Ok
24	PB162644TB	VN083268.D	13 Aug 2024 19:21	JC\MD	Ok
25	P3429-03	VN083269.D	13 Aug 2024 19:45	JC\MD	Dilution
26	PB162587TB	VN083270.D	13 Aug 2024 20:10	JC\MD	Ok
27	VSTDCCC050	VN083271.D	13 Aug 2024 20:34	JC\MD	Ok,M
28	BFB	VN083272.D	14 Aug 2024 01:50	JC\MD	Ok
29	VSTDCCC050	VN083273.D	14 Aug 2024 02:14	JC\MD	Ok,M
30	VN0813WBL02	VN083274.D	14 Aug 2024 03:22	JC\MD	Ok
31	VN0813WBS02	VN083275.D	14 Aug 2024 03:46	JC\MD	Not Ok
32	VN0813WBS03	VN083276.D	14 Aug 2024 04:10	JC\MD	Ok,M
33	P3450-01	VN083277.D	14 Aug 2024 04:52	JC\MD	Ok
34	P3450-02	VN083278.D	14 Aug 2024 05:16	JC\MD	Ok
35	P3450-03	VN083279.D	14 Aug 2024 05:40	JC\MD	Ok
36	P3450-04	VN083280.D	14 Aug 2024 06:04	JC\MD	Ok
37	P3467-01	VN083281.D	14 Aug 2024 06:28	JC\MD	Ok
38	P3467-02	VN083282.D	14 Aug 2024 06:52	JC\MD	Ok
39	P3451-01	VN083283.D	14 Aug 2024 07:16	JC\MD	Ok
40	P3451-02	VN083284.D	14 Aug 2024 07:40	JC\MD	Ok
41	P3534-05	VN083285.D	14 Aug 2024 08:04	JC\MD	Ok
42	P3534-06	VN083286.D	14 Aug 2024 08:28	JC\MD	Ok
43	P3466-01	VN083287.D	14 Aug 2024 08:52	JC\MD	Ok,M
44	P3466-04	VN083288.D	14 Aug 2024 09:16	JC\MD	Ok

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN081324

Review By	Mahesh Dadoda	Review On	8/14/2024 5:15:42 AM
Supervise By	Semsettin Yesilyurt	Supervise On	8/14/2024 5:25:48 AM
SubDirectory	VN081324	HP Acquire Method	HP Processing Method 82N080724W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP129669,VP129708		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP129670,VP129671,VP129701,VP129702,VP129703,VP129704,VP129709,VP129710		

45	P3466-05	VN083289.D	14 Aug 2024 09:40	JC\MD	Ok
46	P3466-06	VN083290.D	14 Aug 2024 10:04	JC\MD	Ok
47	P3466-02MS	VN083291.D	14 Aug 2024 10:28	JC\MD	Ok,M
48	P3466-03MSD	VN083292.D	14 Aug 2024 10:52	JC\MD	Ok,M
49	VSTDCCC050	VN083293.D	14 Aug 2024 11:16	JC\MD	Ok

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN080724

Review By	John Carlone	Review On	8/8/2024 9:36:00 AM
Supervise By	Mahesh Dadoda	Supervise On	8/9/2024 6:16:03 AM
SubDirectory	VN080724	HP Acquire Method	HP Processing Method 82N080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129516
Initial Calibration Stds	VP129526,VP129527,VP129528,VP129529,VP129530,VP129531
CCC	
Internal Standard/PEM	
ICV/I.BLK	VP129532
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN083134.D	07 Aug 2024 10:09		JC\MD	Ok
2	VSTDICC100	VSTDICC100	VN083135.D	07 Aug 2024 10:33	Good for DOD	JC\MD	Ok,M
3	VSTDICCC050	VSTDICCC050	VN083136.D	07 Aug 2024 10:58	QR- 43	JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN083137.D	07 Aug 2024 11:22		JC\MD	Ok,M
5	VSTDICC010	VSTDICC010	VN083138.D	07 Aug 2024 11:46		JC\MD	Ok,M
6	VSTDICC005	VSTDICC005	VN083139.D	07 Aug 2024 12:10		JC\MD	Ok,M
7	VSTDICC001	VSTDICC001	VN083140.D	07 Aug 2024 12:34		JC\MD	Ok,M
8	IBLK	IBLK	VN083141.D	07 Aug 2024 13:22		JC\MD	Ok
9	VSTDICV050	ICVVN080724	VN083142.D	07 Aug 2024 14:49		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN081324

Review By	Maresh Dadoda	Review On	8/14/2024 5:15:42 AM
Supervise By	Semsettin Yesilyurt	Supervise On	8/14/2024 5:25:48 AM
SubDirectory	VN081324	HP Acquire Method	HP Processing Method 82N080724W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP129669,VP129708
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP129670,VP129671,VP129701,VP129702,VP129703,VP129704,VP129709,VP129710

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN083245.D	13 Aug 2024 09:54		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN083246.D	13 Aug 2024 10:18	V13516	JC\MD	Ok,M
3	VN0813MBL01	VN0813MBL01	VN083247.D	13 Aug 2024 10:52		JC\MD	Ok
4	VN0813WBL01	VN0813WBL01	VN083248.D	13 Aug 2024 11:16		JC\MD	Ok
5	VN0813WBS01	VN0813WBS01	VN083249.D	13 Aug 2024 11:40		JC\MD	Ok,M
6	P3429-02	931-K1-WS-073124	VN083250.D	13 Aug 2024 12:06	vial B pH<2	JC\MD	Ok
7	P3440-01	923-K1-WS-080124	VN083251.D	13 Aug 2024 12:30	vial A pH<2	JC\MD	Ok
8	P3440-02MS	923-K1-WS-080124MS	VN083252.D	13 Aug 2024 12:55	vial A pH<2	JC\MD	Ok,M
9	P3440-03MSD	923-K1-WS-080124MS	VN083253.D	13 Aug 2024 13:19	vial A pH<2	JC\MD	Ok,M
10	VN0813MBS01	VN0813MBS01	VN083254.D	13 Aug 2024 13:43		JC\MD	Ok,M
11	P3393-20DL2	S-849-GI-SO-13.5-14-0	VN083255.D	13 Aug 2024 14:07		JC\MD	Ok
12	P3429-04	TB-01-073124	VN083256.D	13 Aug 2024 14:31	vial A pH<2 TB	JC\MD	Ok
13	P3390-07 0.2PPB	LOD-MDL-WATER-01-0	VN083257.D	13 Aug 2024 14:55		JC\MD	Ok,M
14	P3390-07 0.5PPB	LOD-MDL-WATER-01-0	VN083258.D	13 Aug 2024 15:19		JC\MD	Ok,M
15	P3390-07 0.75PPB	LOD-MDL-WATER-01-0	VN083259.D	13 Aug 2024 15:43		JC\MD	Ok,M
16	P3390-07 2.5PPB	LOD-MDL-WATER-01-0	VN083260.D	13 Aug 2024 16:07		JC\MD	Ok,M
17	P3440-04	922-K1-WS-080124	VN083261.D	13 Aug 2024 16:31	vial A pH<2	JC\MD	Ok
18	P3440-05	TB-01-080124	VN083262.D	13 Aug 2024 16:56	vial A pH<2 TB	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN081324

Review By	Maresh Dadoda	Review On	8/14/2024 5:15:42 AM
Supervise By	Semsettin Yesilyurt	Supervise On	8/14/2024 5:25:48 AM
SubDirectory	VN081324	HP Acquire Method	HP Processing Method 82N080724W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP129669,VP129708		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP129670,VP129671,VP129701,VP129702,VP129703,VP129704,VP129709,VP129710		

19	P3543-02	ARS20-0019	VN083263.D	13 Aug 2024 17:20	vial A pH#5.0	JC\MD	Ok
20	P3548-05	RBR200036	VN083264.D	13 Aug 2024 17:44	vial A pH#5.0	JC\MD	Ok
21	P3548-08	343	VN083265.D	13 Aug 2024 18:08	vial A pH#5.0	JC\MD	Ok
22	P3548-11	289	VN083266.D	13 Aug 2024 18:33	vial A pH#5.0	JC\MD	Ok
23	P3548-14	IN-SITU-SOIL	VN083267.D	13 Aug 2024 18:57	vial A pH#5.0	JC\MD	Ok
24	PB162644TB	PB162644TB	VN083268.D	13 Aug 2024 19:21		JC\MD	Ok
25	P3429-03	925-K1-WS-073124	VN083269.D	13 Aug 2024 19:45	vial A pH<2 Need 20X	JC\MD	Dilution
26	PB162587TB	PB162587TB	VN083270.D	13 Aug 2024 20:10		JC\MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VN083271.D	13 Aug 2024 20:34		JC\MD	Ok,M
28	BFB	BFB	VN083272.D	14 Aug 2024 01:50		JC\MD	Ok
29	VSTDCCC050	VSTDCCC050	VN083273.D	14 Aug 2024 02:14		JC\MD	Ok,M
30	VN0813WBL02	VN0813WBL02	VN083274.D	14 Aug 2024 03:22		JC\MD	Ok
31	VN0813WBS02	VN0813WBS02	VN083275.D	14 Aug 2024 03:46	Surrogate Fail	JC\MD	Not Ok
32	VN0813WBS03	VN0813WBS03	VN083276.D	14 Aug 2024 04:10		JC\MD	Ok,M
33	P3450-01	921-J-WP0-0.25-08012	VN083277.D	14 Aug 2024 04:52	vial A pH<2	JC\MD	Ok
34	P3450-02	923-K1-WP0-0.25-0801	VN083278.D	14 Aug 2024 05:16	vial A pH<2	JC\MD	Ok
35	P3450-03	922-K1-WP0-0.25-0801	VN083279.D	14 Aug 2024 05:40	vial A pH<2	JC\MD	Ok
36	P3450-04	TB-02-080124	VN083280.D	14 Aug 2024 06:04	vial A pH<2 TB	JC\MD	Ok
37	P3467-01	919-J-WS-080224	VN083281.D	14 Aug 2024 06:28	vial A pH<2	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN081324

Review By	Maresh Dadoda	Review On	8/14/2024 5:15:42 AM
Supervise By	Semsettin Yesilyurt	Supervise On	8/14/2024 5:25:48 AM
SubDirectory	VN081324	HP Acquire Method	HP Processing Method 82N080724W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP129669,VP129708		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP129670,VP129671,VP129701,VP129702,VP129703,VP129704,VP129709,VP129710		

38	P3467-02	TB-03-080224	VN083282.D	14 Aug 2024 06:52	vial A pH<2 TB	JC\MD	Ok
39	P3451-01	921-J-WS-080124	VN083283.D	14 Aug 2024 07:16	vial A pH<2	JC\MD	Ok
40	P3451-02	TB-03-080124	VN083284.D	14 Aug 2024 07:40	vial A pH<2 TB	JC\MD	Ok
41	P3534-05	PIPE-BLAST-GRIT(FB)	VN083285.D	14 Aug 2024 08:04	vial A pH<2 FB	JC\MD	Ok
42	P3534-06	HP-IP(FB)	VN083286.D	14 Aug 2024 08:28	vial A pH<2 FB	JC\MD	Ok
43	P3466-01	924-K1-WP0-0.25-0802	VN083287.D	14 Aug 2024 08:52	vial A pH<2	JC\MD	Ok,M
44	P3466-04	932-K1-WP0-0.25-0802	VN083288.D	14 Aug 2024 09:16	vial A pH<2	JC\MD	Ok
45	P3466-05	919-J-WP0-0.25-0802	VN083289.D	14 Aug 2024 09:40	vial A pH<2	JC\MD	Ok
46	P3466-06	TB-02-080224	VN083290.D	14 Aug 2024 10:04	vial A pH<2	JC\MD	Ok
47	P3466-02MS	924-K1-WP0-0.25-0802	VN083291.D	14 Aug 2024 10:28	vial A pH<2	JC\MD	Ok,M
48	P3466-03MSD	924-K1-WP0-0.25-0802	VN083292.D	14 Aug 2024 10:52	vial A pH<2	JC\MD	Ok,M
49	VSTDCCC050	VSTDCCC050EC	VN083293.D	14 Aug 2024 11:16		JC\MD	Ok

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : P3451

Test : VOCMS Group6

Prepbatch ID :

Sequence ID/Qc Batch ID: VN081324,

Standard ID :

VP126666,VP128290,VP128298,VP128523,VP128632,VP128634,VP128762,VP128766,VP129196,VP129228,VP129232,VP129235,VP129236,VP129238,VP129517,VP129669,VP129670,VP129671,VP129701,VP129702,VP129703,VP129704,VP129708,VP129709,VP129710,

Chemical ID :

V12794,V12798,V12966,V13390,V13444,V13448,V13462,V13463,V13539,V13581,V13707,V13708,V13800,V13801,V13812,V13952,V13953,V13959,V14016,V14017,V14093,V14103,V14104,V14123,V14141,V14142,V14143,V14147,V14148,V14169,V14170,V14177,V14202,V14207,V14219,V14288,V14411,V14412,V14413,V14414,V14415,W3112,

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
617	8260 Surrogate, 400PPM	VP126666	03/19/2024	09/19/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
03/28/2024								

FROM 0.80000ml of V13708 + 49.20000ml of V14141 = 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	VP128290	06/10/2024	11/23/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
06/12/2024								

FROM 0.25000ml of V13390 + 24.75000ml of V14148 = 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	VP128298	06/10/2024	11/23/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
								06/12/2024

FROM 0.10000ml of V14288 + 9.90000ml of V14148 = Final Quantity: 10.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
251	8260 Internal STD & Surrogate Mix, 250PPM	VP128523	06/10/2024	12/10/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
								06/22/2024

FROM 0.25000ml of V13707 + 0.25000ml of V14288 + 24.50000ml of V14142 = 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>
1817	8260 Working Std(2-CVE)-SS, 800ppm	VP128632	06/25/2024	12/11/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
07/02/2024								

FROM 0.80000ml of V13581 + 9.20000ml of V14147 = Final Quantity: 10.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1818	8260 Working Std(2-CVE)-SS, 50ppm	VP128634	06/25/2024	12/11/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
07/02/2024								

FROM 4.68750ml of V14147 + 0.31250ml of VP128632 = Final Quantity: 5.000 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>
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>
825	8260 Working STD (BCM)-Second source, 10PPM	VP129196	07/22/2024	01/22/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								07/26/2024

FROM 0.10000ml of V12966 + 9.90000ml of V14143 = Final Quantity: 10.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
51	8260 Working STD (Acrolein) -first source, 800PPM	VP129228	07/25/2024	08/24/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
								07/30/2024

FROM 1.00000ml of V14411 + 1.00000ml of V14412 + 1.00000ml of V14413 + 1.00000ml of V14414 + 21.00000ml of V14143 = 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>
263	8260 Working STD (Acrolein)-Second source,	VP129232	07/25/2024	08/23/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/30/2024
FROM 800PPM 0.60000ml of V14414 + 1.00000ml of V14415 + 8.40000ml of V14143 = Final Quantity: 10.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
826	8260 Working STD (Acrolein)-Second source, 50PPM	VP129235	07/25/2024	08/23/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda 07/30/2024
<u>FROM</u> 4.68750ml of V14143 + 0.31250ml of VP129232 = Final Quantity: 5.000 ml								



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

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

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

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
257	8260 Calibration Working STD Mix-First source, 160PPM	VP129517	08/05/2024	09/14/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/08/2024

FROM 0.40000ml of V13444 + 1.00000ml of V13800 + 1.00000ml of V13801 + 1.00000ml of V13952 + 1.00000ml of V13953 + 1.00000ml of V14016 + 1.00000ml of V14017 + 1.00000ml of V14103 + 1.00000ml of V14104 + 1.00000ml of V14169 + 1.00000ml of V14170 + 1.00000ml of V14219 + 1.50000ml of V14202 + 1.50000ml of V14207 + 10.60000ml of V14143 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
589	BFB TUNE CHECK	VP129669	08/13/2024	08/14/2024	John Carlone	None	None	Mahesh Dadoda 08/14/2024

FROM 39.98400ml of W3112 + 0.01600ml of VP128290 = 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	VP129670	08/13/2024	08/14/2024	John Carlone	None	None	Mahesh Dadoda 08/14/2024
<u>FROM</u>	39.94450ml of W3112 + 0.00500ml of VP126666 + 0.00500ml of VP128766 + 0.00800ml of VP128298 + 0.01250ml of VP128762 + 0.01250ml of VP129228 + 0.01250ml of VP129517 = 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	VP129671	08/13/2024	08/14/2024	John Carlone	None	None	Mahesh Dadoda 08/14/2024
<u>FROM</u>	39.94450ml of W3112 + 0.00500ml of VP126666 + 0.00500ml of VP128766 + 0.00800ml of VP128298 + 0.01250ml of VP128762 + 0.01250ml of VP129228 + 0.01250ml of VP129517 = Final Quantity: 40.000 ml							

[illegible]

<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>
834	0.5 PPB LOD, 8260-WATER	VP129702	08/13/2024	08/14/2024	John Carlone	None	None	Mahesh Dadoda 08/14/2024
<u>FROM</u>	39.98300ml of W3112 + 0.00200ml of VP128634 + 0.00200ml of VP129196 + 0.00200ml of VP129235 + 0.00200ml of VP129238 + 0.00800ml of VP128523 = 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>
891	0.75 PPB LOD, 8260-WATER	VP129703	08/13/2024	08/14/2024	John Carlone	None	None	Mahesh Dadoda 08/14/2024
<u>FROM</u>	39.97000ml of W3112 + 0.00300ml of VP128634 + 0.00300ml of VP129196 + 0.00300ml of VP129235 + 0.00300ml of VP129238 + 0.00500ml of VP126666 + 0.00800ml of VP128298 = 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>
837	2.5 PPB LOD, 8260-WATER	VP129704	08/13/2024	08/14/2024	John Carlone	None	None	Maresh Dadoda 08/14/2024
<u>FROM</u>	39.94200ml of W3112 + 0.00800ml of VP128523 + 0.01000ml of VP128634 + 0.01000ml of VP129196 + 0.01000ml of VP129235 + 0.01000ml of VP129238 = 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>
589	BFB TUNE CHECK	VP129708	08/13/2024	08/14/2024	John Carlone	None	None	Maresh Dadoda
								08/15/2024

FROM 39.98400ml of W3112 + 0.01600ml of VP128290 = 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	VP129709	08/13/2024	08/14/2024	John Carlone	None	None	Maresh Dadoda
								08/15/2024

FROM 39.94450ml of W3112 + 0.00500ml of VP126666 + 0.00500ml of VP128766 + 0.00800ml of VP128298 + 0.01250ml of VP128762 + 0.01250ml of VP129228 + 0.01250ml of VP129517 = 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	VP129710	08/13/2024	08/14/2024	John Carlone	None	None	Mahesh Dadoda 08/15/2024
<u>FROM</u>	39.94450ml of W3112 + 0.00500ml of VP126666 + 0.00500ml of VP128766 + 0.00800ml of VP128298 + 0.01250ml of VP128762 + 0.01250ml of VP129228 + 0.01250ml of VP129517 = 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 #
Absolute Standards, Inc.	70046 / Bromochloromethane Std. sol/methanol 1000ppm	070122	01/22/2025	07/22/2024 / SAM	07/06/2022 / SAM	V12966

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	12/08/2024	12/08/2023 / SAM	01/13/2023 / SAM	V13390

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	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0191703	12/03/2024	06/03/2024 / SAM	01/23/2023 / SAM	V13448

CHEMICAL RECEIPT LOG BOOK

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

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	A0186767	11/29/2024	05/29/2024 / SAM	01/27/2023 / SAM	V13539

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	111722	12/25/2024	06/25/2024 / SAM	01/30/2023 / SAM	V13581

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	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0196865	09/19/2024	03/19/2024 / SAM	04/12/2023 / SAM	V13708

CHEMICAL RECEIPT LOG BOOK

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	01/30/2025	07/30/2024 / SAM	05/31/2023 / SAM	V13800

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	12/28/2024	06/28/2024 / SAM	05/31/2023 / SAM	V13801

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0197644	11/29/2024	05/29/2024 / SAM	05/31/2023 / SAM	V13812

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	A0196115	09/30/2024	06/14/2024 / SAM	09/25/2023 / SAM	V13952

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	A0196115	09/30/2024	06/14/2024 / SAM	09/25/2023 / SAM	V13953

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	A0199224	12/31/2024	07/22/2024 / SAM	09/25/2023 / SAM	V13959

CHEMICAL RECEIPT LOG BOOK

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	12/14/2024	06/14/2024 / SAM	11/22/2023 / SAM	V14016

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	12/14/2024	06/14/2024 / SAM	11/22/2023 / SAM	V14017

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	A0205177	11/14/2024	05/14/2024 / SAM	12/22/2023 / SAM	V14093

LOTS

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE	A0205179	12/14/2024	06/14/2024 / SAM	12/22/2023 / SAM	V14103

LOTS

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE	A0205179	12/14/2024	06/14/2024 / SAM	12/22/2023 / SAM	V14104

LOTS

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	011624	12/03/2024	06/03/2024 / SAM	01/17/2024 / SAM	V14123

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	09/19/2024	03/19/2024 / SAM	02/06/2024 / SAM	V14141

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	12/10/2024	06/10/2024 / SAM	02/06/2024 / SAM	V14142

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	01/22/2025	07/22/2024 / SAM	02/06/2024 / SAM	V14143

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	11/23/2024	05/23/2024 / pedro	02/06/2024 / SAM	V14148

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	12/14/2024	06/14/2024 / SAM	02/20/2024 / SAM	V14169

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	12/14/2024	06/14/2024 / SAM	02/20/2024 / SAM	V14170

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021524	12/03/2024	06/03/2024 / SAM	02/20/2024 / SAM	V14177

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	12/25/2024	06/25/2024 / SAM	02/28/2024 / SAM	V14202

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	12/25/2024	06/25/2024 / SAM	02/28/2024 / SAM	V14207

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	12/25/2024	06/25/2024 / SAM	02/28/2024 / SAM	V14219

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	06/10/2025	06/10/2024 / SAM	04/15/2024 / SAM	V14288

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	072424	08/24/2024	07/25/2024 / SAM	07/25/2024 / SAM	V14411

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	072424	08/24/2024	07/25/2024 / SAM	07/25/2024 / SAM	V14412

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	072424	08/24/2024	07/25/2024 / SAM	07/25/2024 / SAM	V14413

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	072424	08/24/2024	07/25/2024 / SAM	07/25/2024 / SAM	V14414

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	072424	08/24/2024	07/25/2024 / SAM	07/25/2024 / SAM	V14415

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112



CERTIFIED WEIGHT REPORT

Part Number: **95319**
Lot Number: **011624**
Description: **Revised Additions Mix**

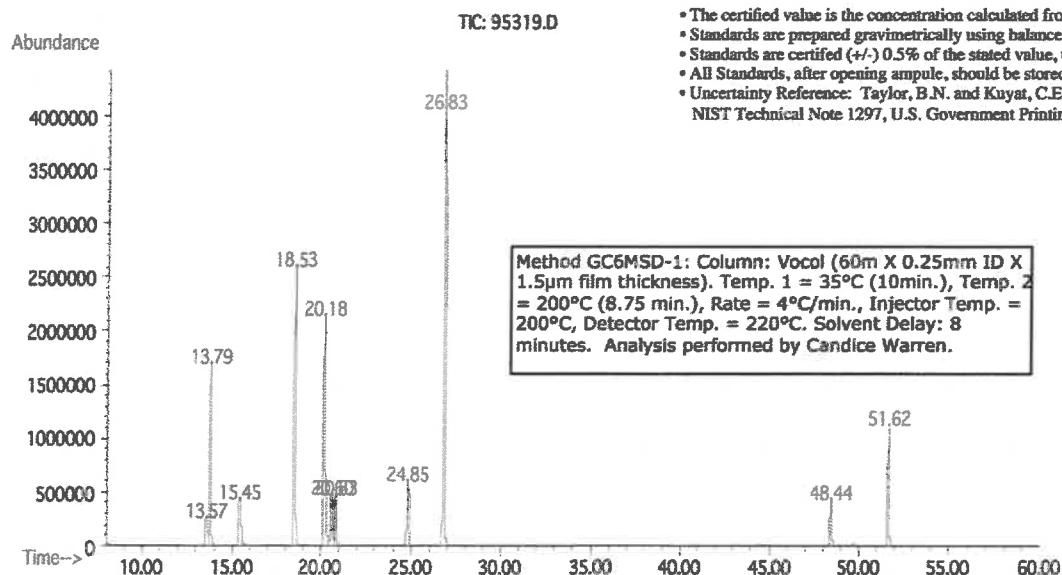
Solvent(s): **Lot#**
Methanol EH471-US

Expiration Date: **011627**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **Varied**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **100.0**
5E-05 Balance Uncertainty
0.021 Flask Uncertainty

		011624
Formulated By:	Prashant Chauhan	DATE
		011624
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrylonitrile	7	4718CK	10000	99	0.2	1.01035	1.01080	10004.4	40.6	107-13-1	N/A	ori-rat 78 mg/kg
2. 1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20007	0.20035	2002.8	8.1	109-69-3	N/A	ori-rat 2670mg/kg
3. Cyclohexane	1023	28930	2000	99	0.2	0.20207	0.20222	2001.5	8.2	110-82-7	300 ppm (1050mg/m3/8H)	ori-rat 12705mg/kg
4. Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20207	0.20227	2002.0	8.2	108-20-3	500 ppm (2100mg/m3/8H)	ori-rat 8470mg/kg
5. 1,4-Dioxane	373	03853KE	40000	99	0.2	4.04142	4.04213	40007.0	162.5	123-91-1	25 ppm (90mg/m3/8H)(skin)	ori-mus 5700mg/kg
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20207	0.20221	2001.4	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	ori-gpg 4970mg/kg
7. Methylcyclohexane	1627	SHBG0199V	2000	99	0.2	0.20207	0.20230	2002.3	8.2	108-87-2	N/A	ori-mus 2250mg/kg
8. Methyl tert-butyl ether (MTBE)	209	21880	2000	99	0.2	0.20207	0.20227	2002.0	8.2	1634-04-4	N/A	ori-rat 4g/kg
9. Propionitrile	349	1395468	20000	99	0.2	2.02071	2.02150	20007.8	81.3	107-12-0	N/A	ori-rat 39mg/kg
10. Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00125	1.00200	10007.5	40.3	109-99-9	20 ppm (590mg/m3/8H)	ori-rat 1650mg/kg
11. 1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21511	0.21522	2001.0	8.7	488-23-3	N/A	ori-rat 6408mg/kg



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62



CERTIFIED WEIGHT REPORT

Part Number: **95317**
Lot Number: **021524**
Description: **Universal VOA Megamix**
69 components
Expiration Date: 021527
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: BUTB

Solvent(s): **Methanol**
Lot#: **EG359-USQ12**

		021524
Formulated By:	Mario Luis	DATE
		021524
Reviewed By:	Pedro L. Rentes	DATE

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

														SDS Information		
														(Solvent Safety Info. On Attached pg.)		
Compound	(RM#)	Lot	Dr.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	CAS#	OSHA PEL (TWA)	LD50
	Part Number	Number	Factor	Vol. (mL)	Conc. (µg/mL)	Conc. (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc. (µg/mL)	(+/-) (µg/mL)			
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20022	2001.5	8.1	75-05-8	40 ppm (70mg/m3/8h)	or-rat 2450mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102398	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20222	2001.5	8.2	107-05-1	1 ppm (3mg/m3/8h)	or-rat 700mg/kg
3. Carbon disulfide	(0060)	MKCR8581	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21080	2000.2	8.5	1478-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0466)	MKBP8041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20734	2000.3	8.4	110-57-5	N/A	N/A
6. Diethyl ether	(0153)	JK18CASA000K	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20042	2001.7	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	061826PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20231	2002.4	8.2	97-83-2	N/A	or-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8716V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20118	2001.2	8.1	74-88-4	5 ppm (28mg/m3/8h) (skin)	or-rat 76mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8h)	or-rat 2450mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20209	2000.2	8.2	128-98-7	1 ppm (3mg/m3/8h) (skin)	or-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20042	2001.7	8.1	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	0.20030	2000.5	8.1	80-62-6	100 ppm (410mg/m3/8h)	or-rat 787mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	98-95-3	1 ppm (5mg/m3/8h) (skin)	or-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20670	2001.0	8.3	79-46-9	10 ppm (35mg/m3/8h)	or-rat 720mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20415	2000.2	8.3	78-01-7	N/A	N/A
16. 1,1,2-Trichloro-1,1,2,2,2-pentafluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20210	2000.3	8.2	78-13-1	1000 ppm (7600mg/m3/8h)	or-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	or-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 848mg/kg
19. cis-1,2-Dichloroethane	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-60-2	N/A	N/A
20. trans-1,2-Dichloroethane	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	or-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 800mg/kg
22. 1,1-Dichloroethane	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	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 (12.8mg/m3/8h)	or-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	or-rat 900mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-06-3	N/A	or-rat 106mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	or-rat 725mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	584-20-7	N/A	N/A
29. Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.6	127-18-4	25 ppm (170mg/m3/8h) (final)	or-rat 262mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8h)	or-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40018.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	or-rat 170mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	108-93-4	20 ppm (8h)	or-rat 108mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8h)	or-rat 670mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8h)	or-rat 1947mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	ure-mus 3600mg/kg
36. 1,1-Dichloropropane	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-56-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	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	29.7	87-68-3	0.02 ppm (0.24mg/m3/8h)	or-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	or-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8h) (skin)	or-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8h) (skin)	or-rat 836mg/kg
43. Trichloroethane	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8h)	or-mus 2400mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8h)	or-rat 149.8mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4894mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-1	N/A	or-rat 2699mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8h)	or-rat 2000mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-8	N/A	or-rat 4750mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8h)	or-rat 490mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	or-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1300mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 750mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.8	23.0	95-63-6	N/A	or-rat 5g/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	or-rat 5000mg/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8h)	or-rat 5g/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	N/A	N/A
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-6	N/A	or-rat 2240mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8h)	or-rat 2290mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-5	50 ppm (250mg/m3/8h)	or-rat 3900mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.							

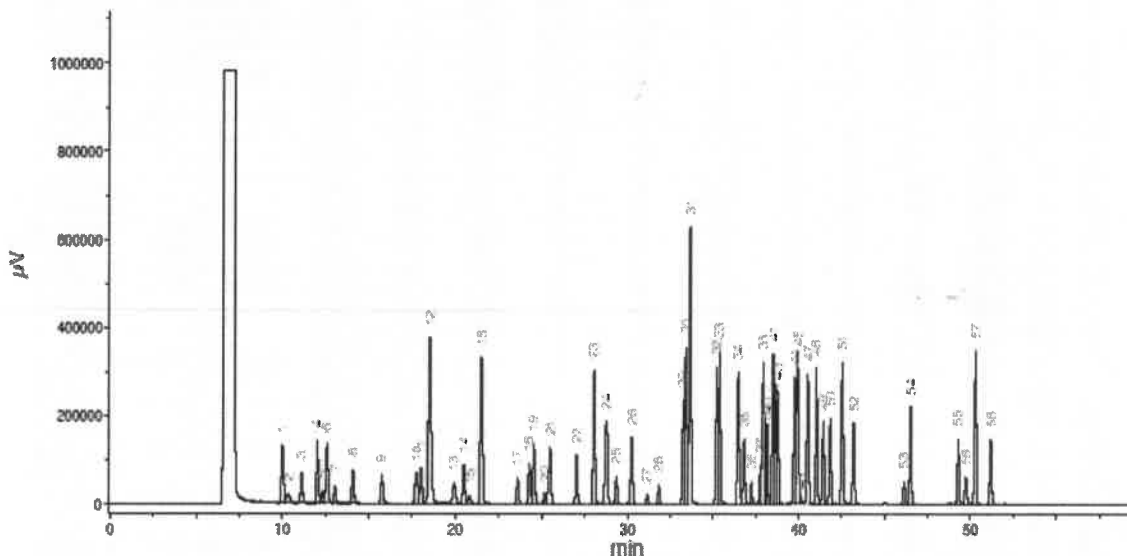


Run 17, "P95317 L021524 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 10:04:27 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments

GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocool 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.34
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	22.58
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,2-Dichloropropane	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropane	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.18
28	1,2-Dibromomethane	31.84
29	Chlorobenzene	33.39
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	33.72
33	Styrene	35.39
34	Isopropylbenzene/Bromoform	36.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.32
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	43.10
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.48
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16



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**

Weight(s) shown below were combined and diluted to (mL): **100.0** **0.021** Balance Uncertainty: **5E-05** Flask Uncertainty: **0.021**

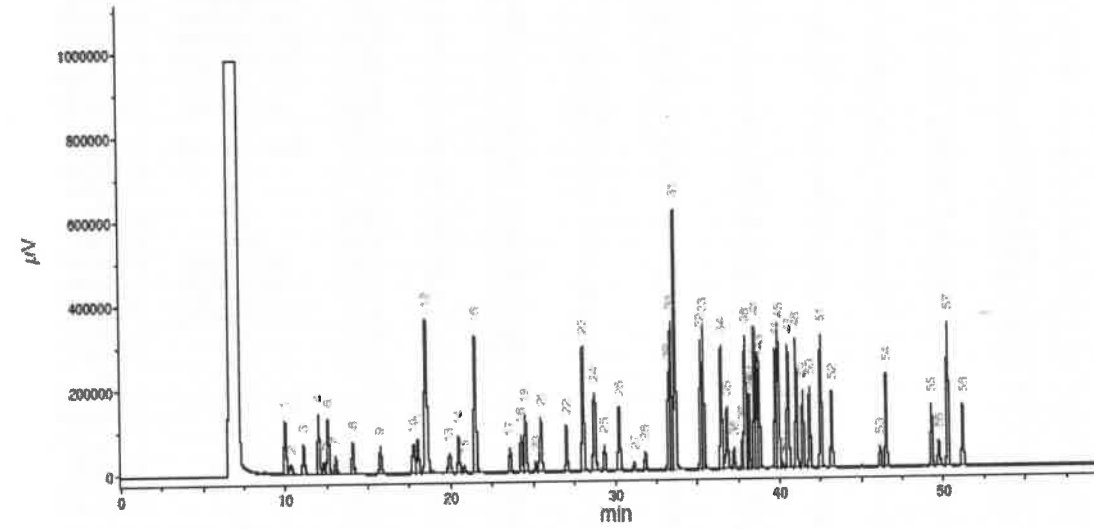
		021624
Formulated By:	Prashant Chauhan	DATE
		021624
Reviewed By:	Pedro L. Rentes	DATE

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)	Uncertainty	(Solvent Safety Info. On Attached pg.)		
													(+/-)	CAS#	OSHA PEL (TWA)	LD50
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
Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	or-rat 700mg/kg
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
cis-1,4-Dichloro-2-butene	(1198)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	NA	NA
trans-1,4-Dichloro-2-butene	(0486)	MKBP6041F	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	NA	NA
Diethyl ether	(0153)	IK18CA5000K	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	NA	NA
Ethyl methacrylate	(0381)	06126PK	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	NA	or-rat 14800mg/kg
Iodomethane	(0489)	5HBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm (28mg/m3/8H) (skin)	or-rat 70mg/kg
2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	or-rat 3480mg/kg
Methacrylonitrile	(0442)	03427ET	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
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
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
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
2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	or-rat 7200mg/kg
Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	NA	NA
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
Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	NA	or-rat 910mg/kg
Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-49-1	NA	or-rat 840mg/kg
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	NA	NA
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	NA	NA
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
1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg
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
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
Chloroform	95321	020724	0.10	10.00	20002.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	67-68-3	50 ppm (240mg/m3) (CL)	or-rat 900mg/kg
Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	NA	or-rat 105mg/kg
1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	or-rat 725mg/kg
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	NA	NA
Tetrachloroethane	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.6	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg
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
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
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 108mg/kg
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
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
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	NA	un-rat 3600mg/kg
1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-56-6	NA	NA
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	NA	NA
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	NA	NA
Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 82mg/kg
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	NA	or-rat 670mg/kg
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
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
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
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
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
Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	NA	NA
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
Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	99-87-8	NA	or-rat 4750mg/kg
p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 490mg/kg
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
Styrene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-98-3	200 ppm	or-rat 5000mg/kg
Toluene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	NA	or-rat 1390mg/kg
1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 750mg/kg
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	NA	or-rat 5g/kg
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	NA	or-rat 5000mg/kg
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
m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	NA	NA
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	NA	or-rat 2240mg/kg
sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg
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
Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	NA	or-rat 2100mg/kg
Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	541-73-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.6	23.0	96-46-7	75 ppm (450mg/m3/8H)	or-rat 900mg/kg
3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	NA	or-rat 1065mg/kg
1-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9			

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-Hitropropane	25.46
22	cis-1,3-Dichloropropane	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropane	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
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	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.93
39	trans-1,4-Dichloro-3-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.74
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.46
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.	
Personal protective equipment	Respiratory protection. Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC. DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

CERTIFIED WEIGHT REPORT

Part Number: **95317**
Lot Number: **021624**
Description: **Universal VOA Megamix**
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 8UTB

Solvent(s): **Methanol**
Lot#: **EG359-USQ12**

Weight(s) shown below were combined and diluted to (mL): **100.0** **0.021** Balance Uncertainty: **5E-05** Flask Uncertainty: **0.021**

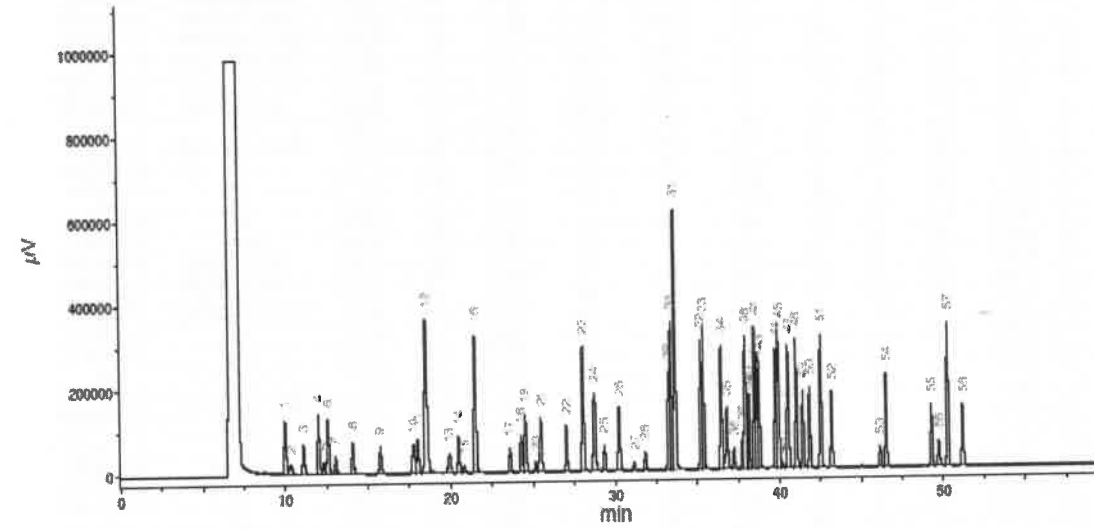
Formulated By: <i>Prashant Chauhan</i>		021624
		DATE
Reviewed By: <i>Pedro L. Rentes</i>		021624
		DATE

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)	Uncertainty	(Solvent Safety Info. On Attached pg.)		
													(+/-)	CAS#	OSHA PEL (TWA)	LD50
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
Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	or-rat 700mg/kg
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
cis-1,4-Dichloro-2-butene	(1198)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	NA	NA
trans-1,4-Dichloro-2-butene	(0486)	MKBP6041F	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	NA	NA
Diethyl ether	(0153)	IK18CA5000K	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	NA	NA
Ethyl methacrylate	(0381)	06126PK	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	NA	or-rat 14800mg/kg
Iodomethane	(0489)	5HBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm (28mg/m3/8H) (skin)	or-rat 70mg/kg
2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	or-rat 3480mg/kg
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
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
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
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
2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	or-rat 7200mg/kg
Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	NA	NA
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
Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	NA	or-rat 910mg/kg
Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-49-1	NA	or-rat 840mg/kg
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	NA	NA
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	NA	NA
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
1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg
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
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
Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	67-66-3	50 ppm (240mg/m3) (CL)	or-rat 900mg/kg
Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-85-3	NA	or-rat 105mg/kg
1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	or-rat 725mg/kg
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	NA	NA
Tetrachloroethane	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.6	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg
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
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
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 108mg/kg
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
1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2000.2	22.9	78-57-5	75 ppm (350mg/m3/8H)	or-rat 1947mg/kg
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	NA	un-rat 3600mg/kg
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	NA	NA
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	NA	NA
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	NA	NA
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
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	NA	or-rat 670mg/kg
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
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
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
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
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
Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	104-51-8	NA	NA
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
Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	99-87-6	NA	or-rat 4750mg/kg
p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 490mg/kg
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
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
Toluene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	NA	or-rat 1390mg/kg
1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 750mg/kg
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	NA	or-rat 5g/kg
1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-57-8	NA	or-rat 5000mg/kg
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
m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	NA	NA
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	NA	or-rat 2240mg/kg
sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg
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
Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	NA	or-rat 2100mg/kg
Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	541-73-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.6	23.0	96-46-7	75 ppm (450mg/m3/8H)	or-rat 900mg/kg
3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	96-52-8	50 ppm (245mg/m3/8H)	or-rat 1400mg/kg

Run 16, "P95317 L021624 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.24
11	cis-1,2-Dichloroethane	18.00
12	Methacrylonitrile/methyl acrylate/Chloroform	18.46
13	Isobutane/1,1,1-Trichloroethane	19.01
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethane	23.58
18	1,2-Dichloropropane	24.38
19	Methyl methacrylate	24.52
20	Bromochloromethane	25.13
21	Dibromomethane/2-Helopropene	25.46
22	cis-1,3-Dichloropropane	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropane	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
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	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	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: **95319**
Lot Number: **032922**
Description: **Revised Additions Mix**
11 components

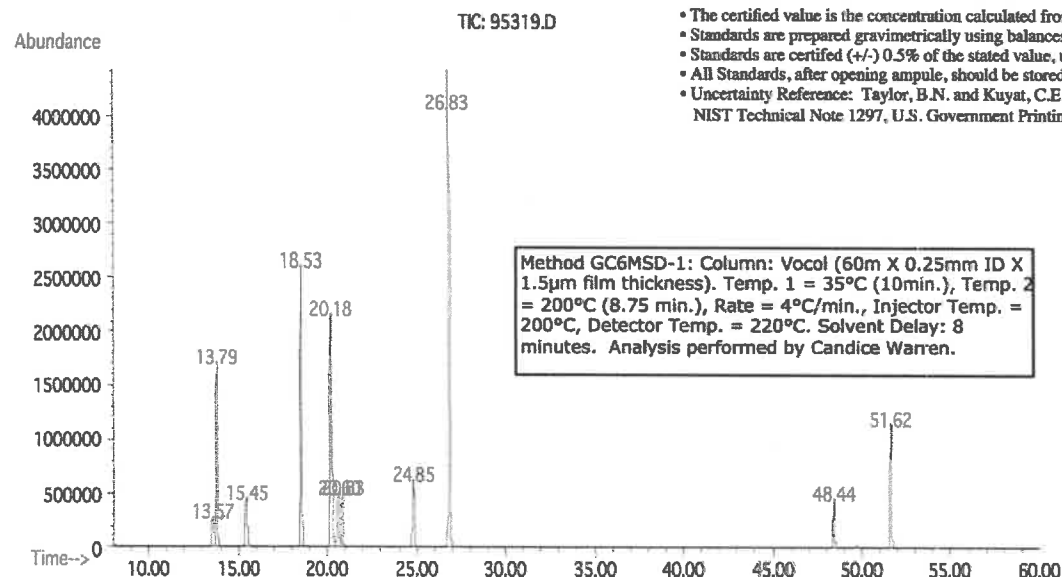
Solvent(s): **Lot#**
Methanol EC592-US

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

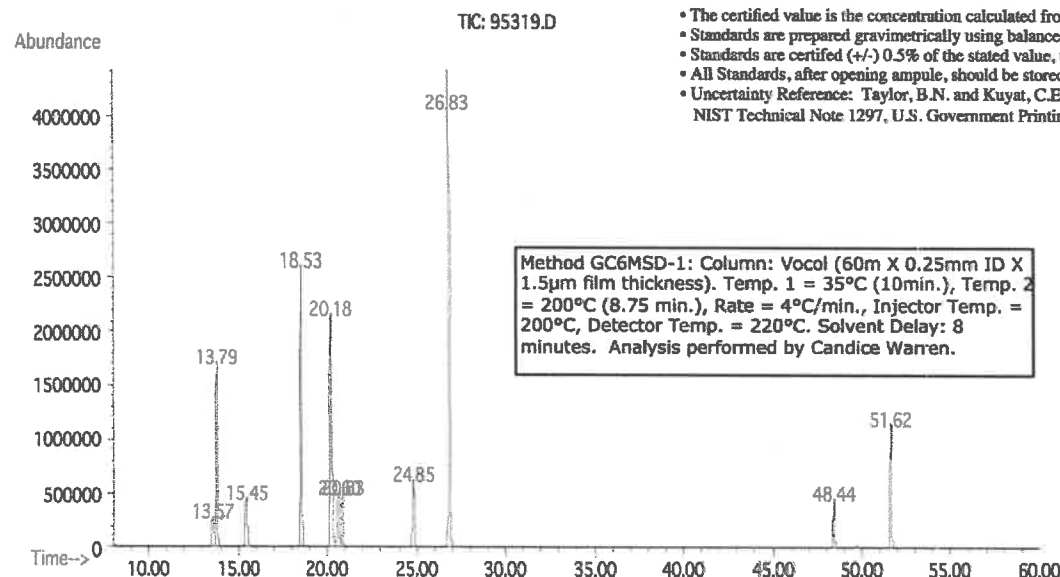
Part Number: **95319**
Lot Number: **032922**
Description: **Revised Additions Mix**
11 components

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.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 072423
Description: Acrolein

Solvent(s):
Water
Lot# 102422Q

5 Smu

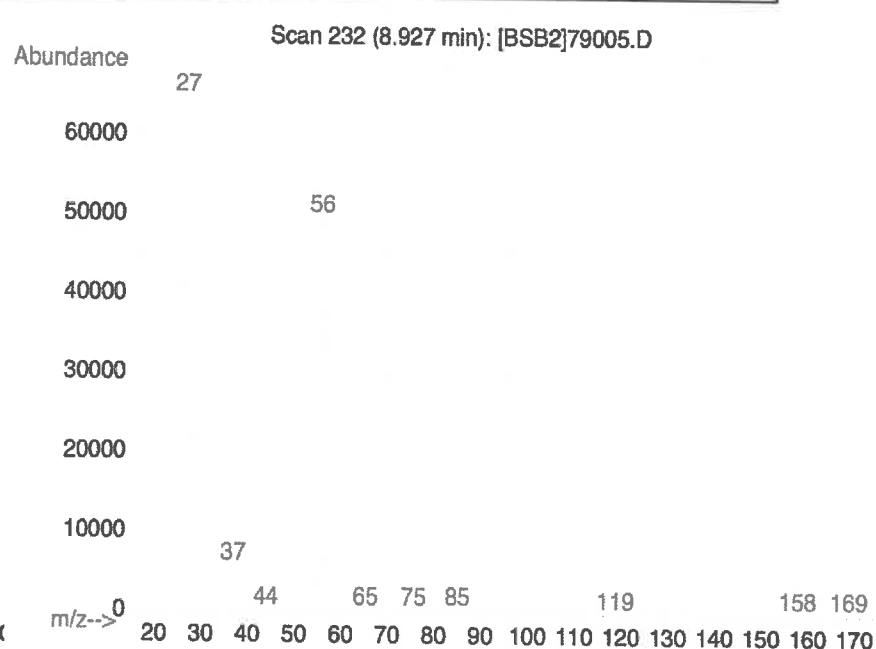
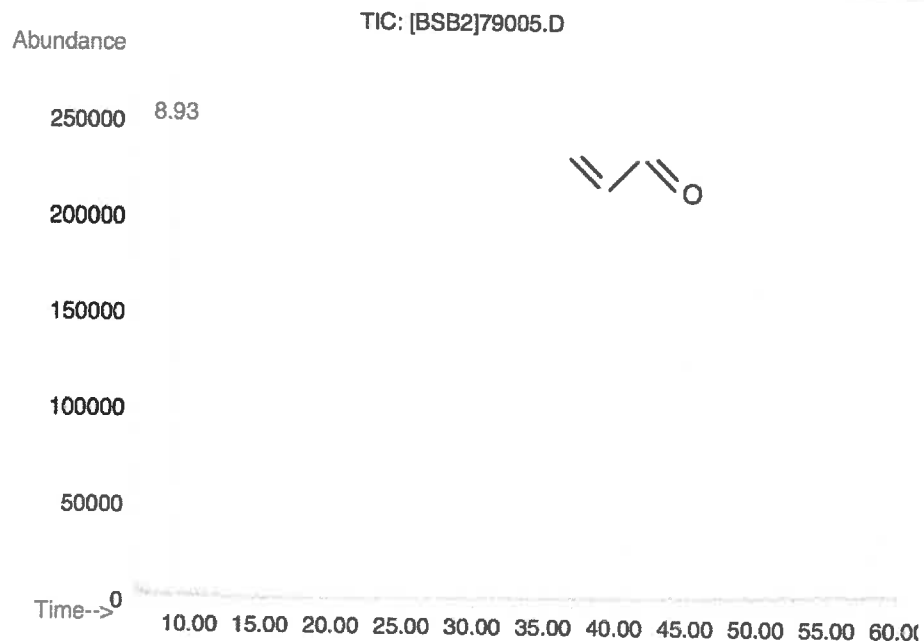
Gabriel Holland		072423
Formulated By:	Gabriel Holland	DATE
Pedro L. Rentas		072423
Reviewed By:	Pedro L. Rentas	DATE

Expiration Date: 082423
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 10.0

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R09M	5000	97.1	0.5	0.05160	0.05170	5009.2	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	May 1, 2022

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water

Signal Word: **DANGER**

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))
Water

CAS#: 7732-18-5

% (optional)
> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water	CAS#: 7732-18-5	TWA: 500 ppm
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.
		Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H ₂ O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

		NA	0°C
Vapor Density (AIR = 1)		NA	Evaporation rate (Butyl Acetate = 1)
Solubility in Water	Completely miscible		NA
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products - No data available	

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 072423
Description: Acrolein

Solvent(s):
Water Lot# 102422Q

Expiration Date: 082423

Recommended Storage: Refrigerate (4 °C)

Nominal Concentration (µg/mL): 5000

NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL): 10.0 0.001

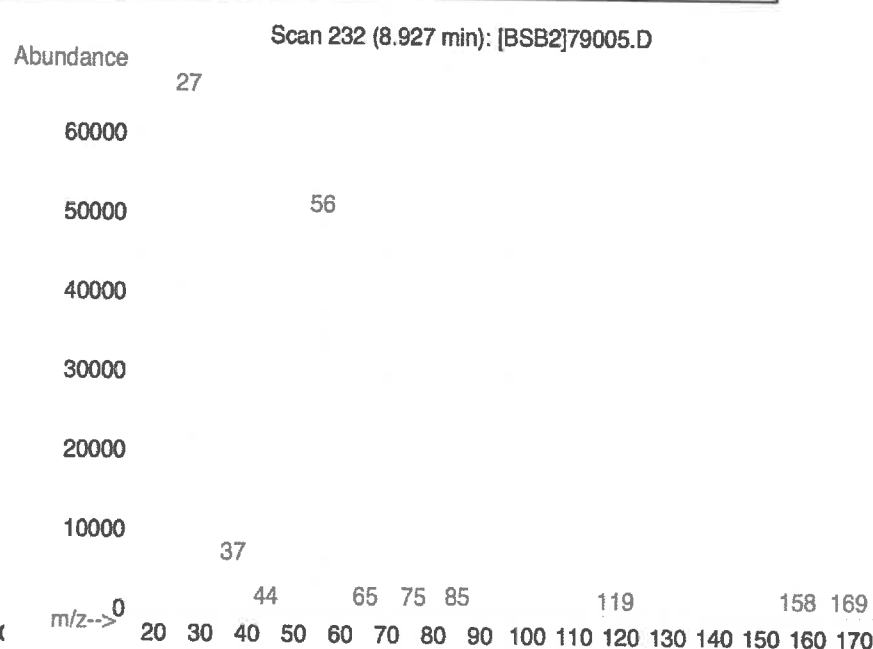
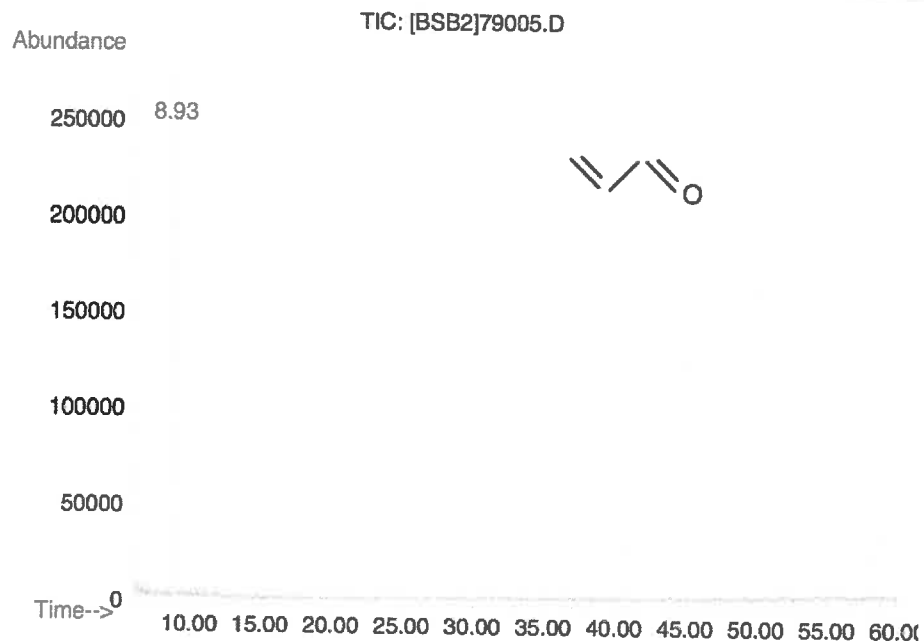
5E-05 Balance Uncertainty

0.001 Flask Uncertainty

Gabriel Holland		072423
Formulated By:	Gabriel Holland	DATE
Pedro L. Rentas		072423
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R09M	5000	97.1	0.5	0.05160	0.05170	5009.2	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	May 1, 2022

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))
Water

CAS#: 7732-18-5

% (optional)
> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water	CAS#: 7732-18-5	TWA: 500 ppm
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H ₂ O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

		NA		0°C
Vapor Density (AIR = 1)		NA	Evaporation rate (Butyl Acetate = 1)	NA
Solubility in Water	Completely miscible			
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.			

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products - No data available	

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 072423
Description: Acrolein

Solvent(s):
Water
Lot# 102422Q

5 Smu

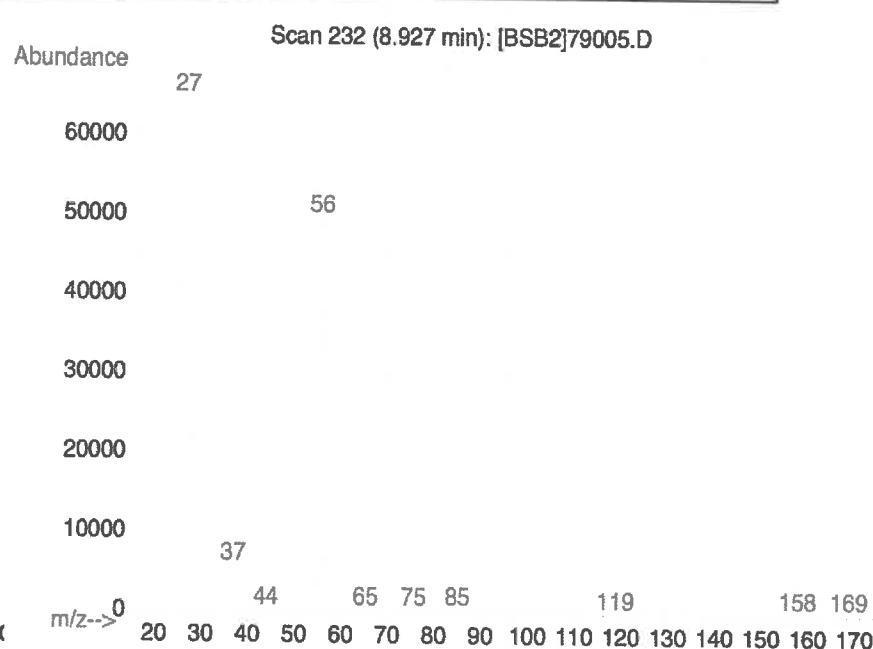
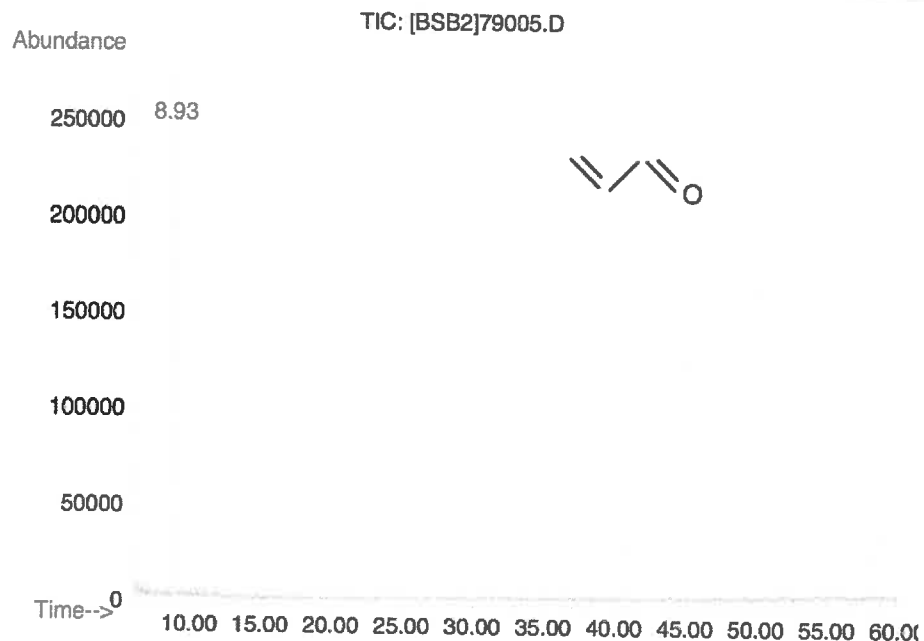
Gabriel Holland		072423
Formulated By:	Gabriel Holland	DATE
Pedro L. Rentas		072423
Reviewed By:	Pedro L. Rentas	DATE

Expiration Date: 082423
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 10.0

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R09M	5000	97.1	0.5	0.05160	0.05170	5009.2	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.)
Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately
Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	May 1, 2022

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))
Water

CAS#: 7732-18-5

% (optional)
> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water	CAS#: 7732-18-5	TWA: 500 ppm
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H ₂ O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

		NA	0°C
Vapor Density (AIR = 1)		NA	Evaporation rate (Butyl Acetate = 1)
Solubility in Water	Completely miscible		NA
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products - No data available	

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 072423
Description: Acrolein

Solvent(s):
Water
Lot# 102422Q

5 Smu

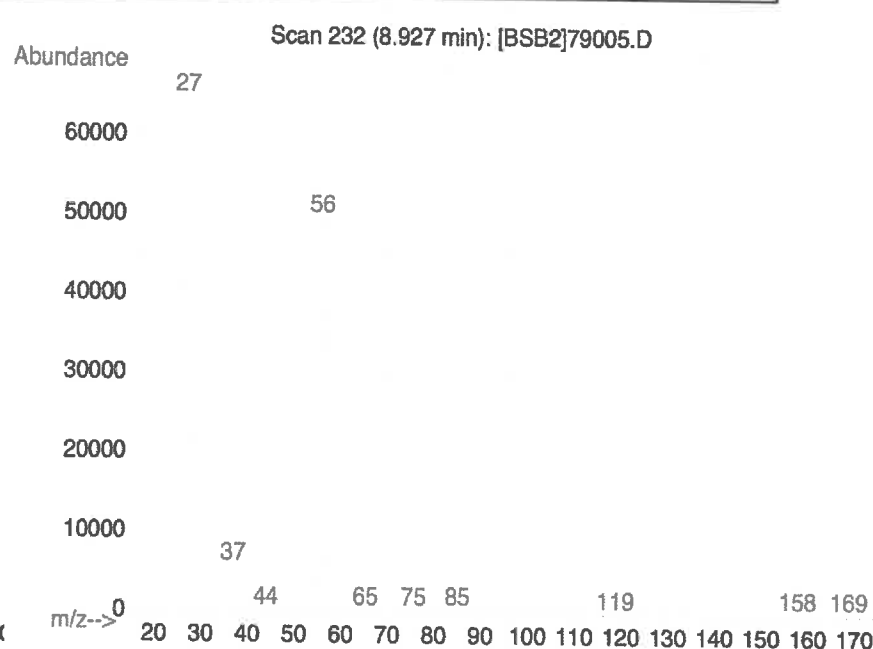
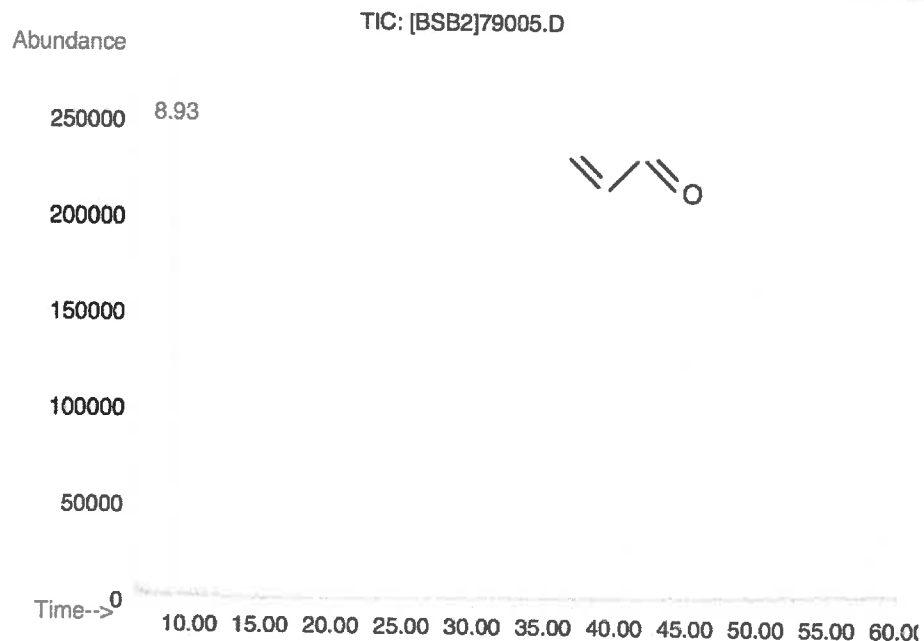
Gabriel Holland		072423
Formulated By:	Gabriel Holland	DATE
Pedro L. Rentas		072423
Reviewed By:	Pedro L. Rentas	DATE

Expiration Date: 082423
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 10.0

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R09M	5000	97.1	0.5	0.05160	0.05170	5009.2	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.)
Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately
Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	May 1, 2022

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))
Water

CAS#: 7732-18-5

% (optional)
> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water	CAS#: 7732-18-5	TWA: 500 ppm
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		Eye protection.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H ₂ O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)		NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water		Completely miscible	NA	
Appearance and Odor		CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products - No data available	

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 072423
Description: Acrolein

Solvent(s):
Water
Lot# 102422Q

5 Smu

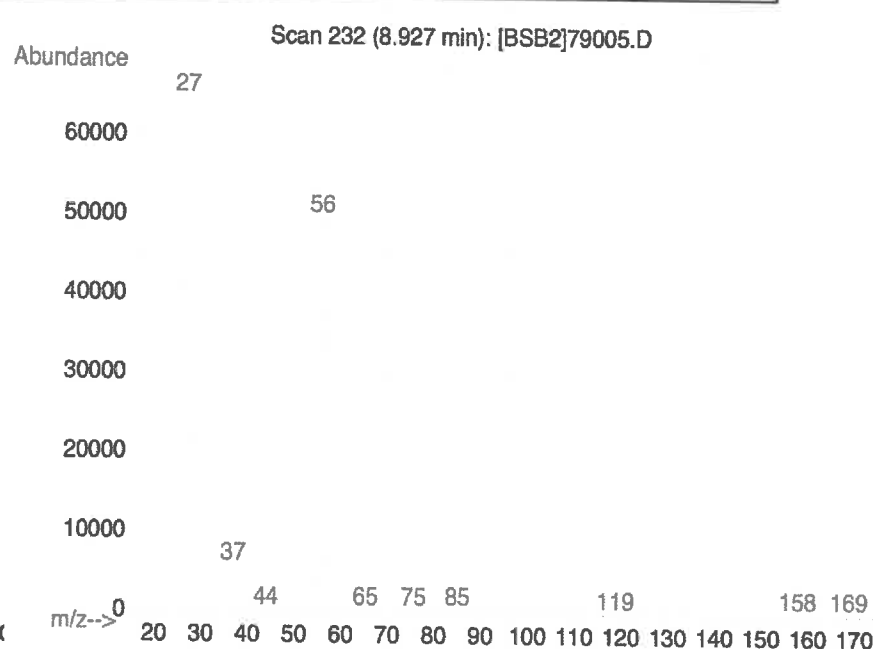
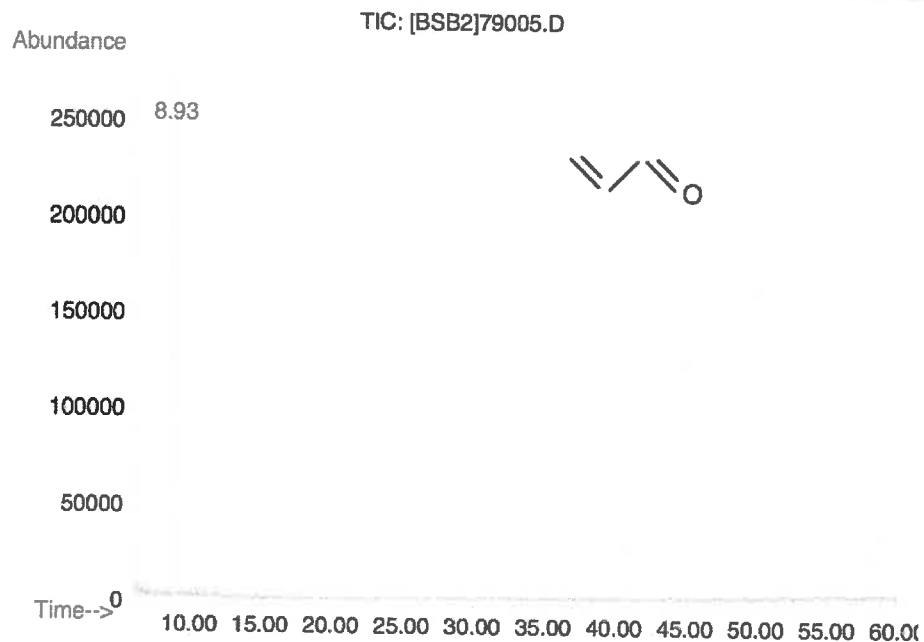
Gabriel Holland		072423
Formulated By:	Gabriel Holland	DATE
Pedro L. Rentas		072423
Reviewed By:	Pedro L. Rentas	DATE

Expiration Date: 082423
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 10.0

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R09M	5000	97.1	0.5	0.05160	0.05170	5009.2	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.)
Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately
Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	May 1, 2022

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))
Water

CAS#: 7732-18-5

% (optional)
> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water	CAS#: 7732-18-5	TWA: 500 ppm
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		Eye protection.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H ₂ O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

		NA	0°C
Vapor Density (AIR = 1)		NA	Evaporation rate (Butyl Acetate = 1)
Solubility in Water	Completely miscible		NA
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products - No data available	

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **111722**
Description: **2-Chloroethyl vinyl ether**

Solvent(s): **Lot#**
Methanol **EB679-US**

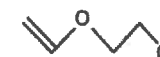
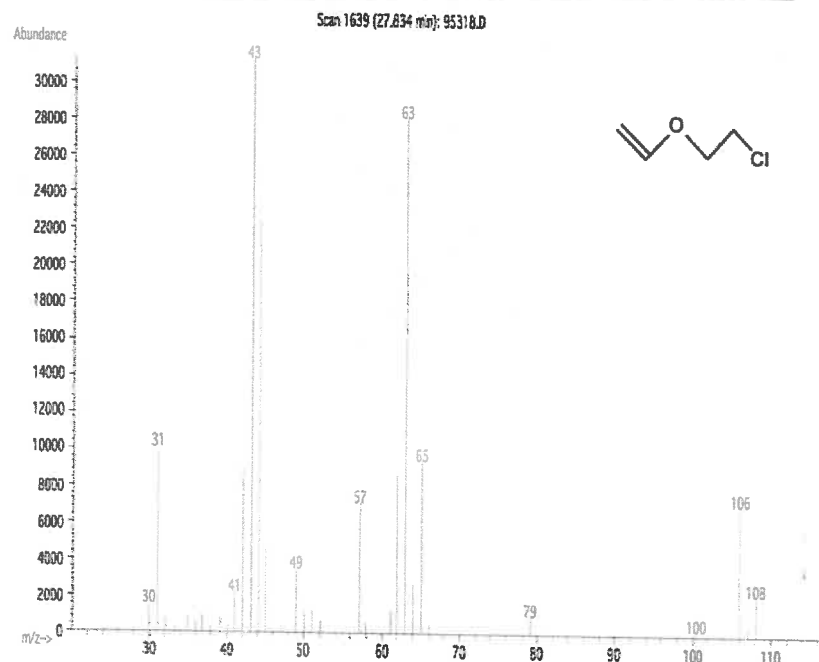
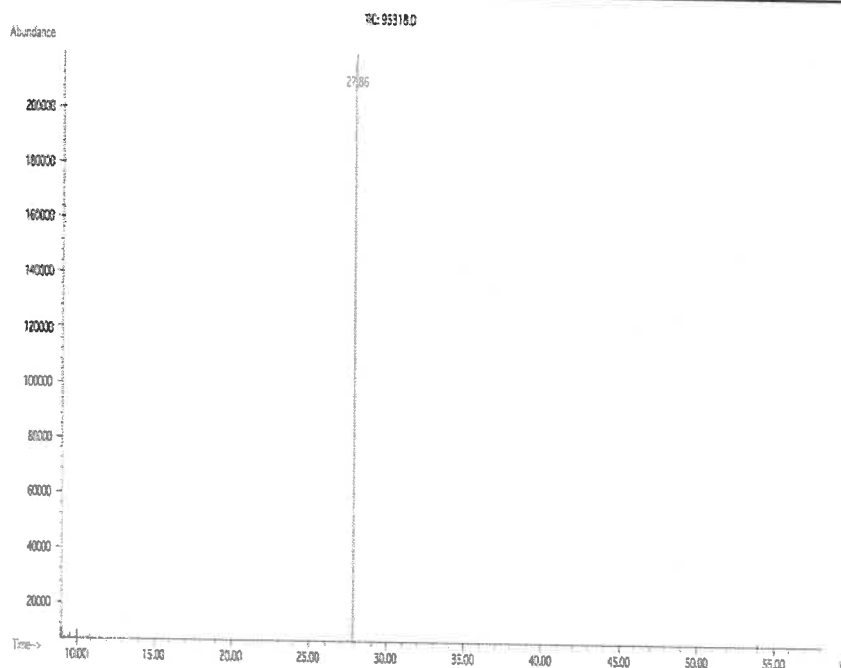
Expiration Date: **111725**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

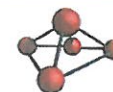
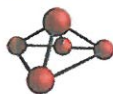
<i>Eli Aliaga</i>		111722
Formulated By:	Eli Aliaga	DATE
<i>Pedro L. Rentas</i>		111722
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50541	0.50551	10001.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **121321**
Description: **2-Chloroethyl vinyl ether**

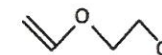
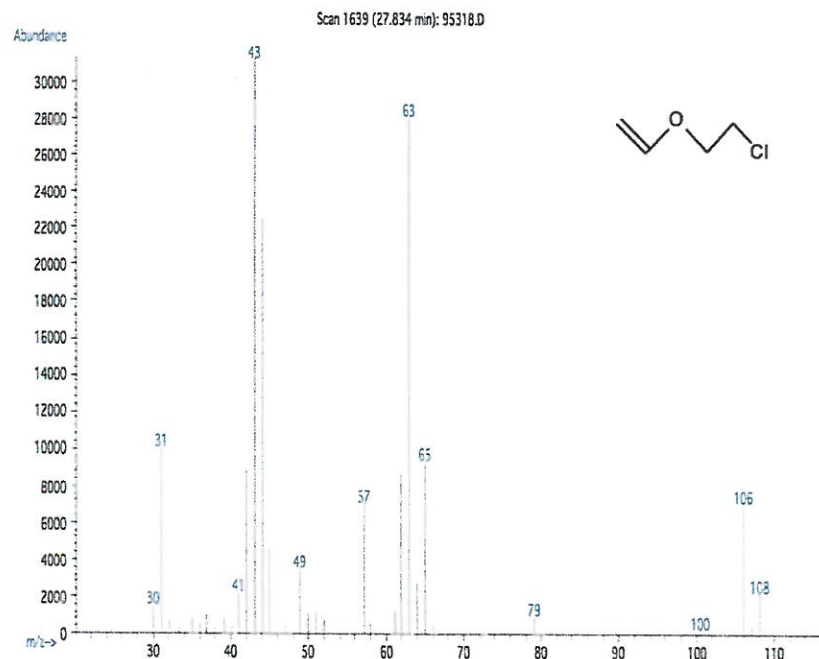
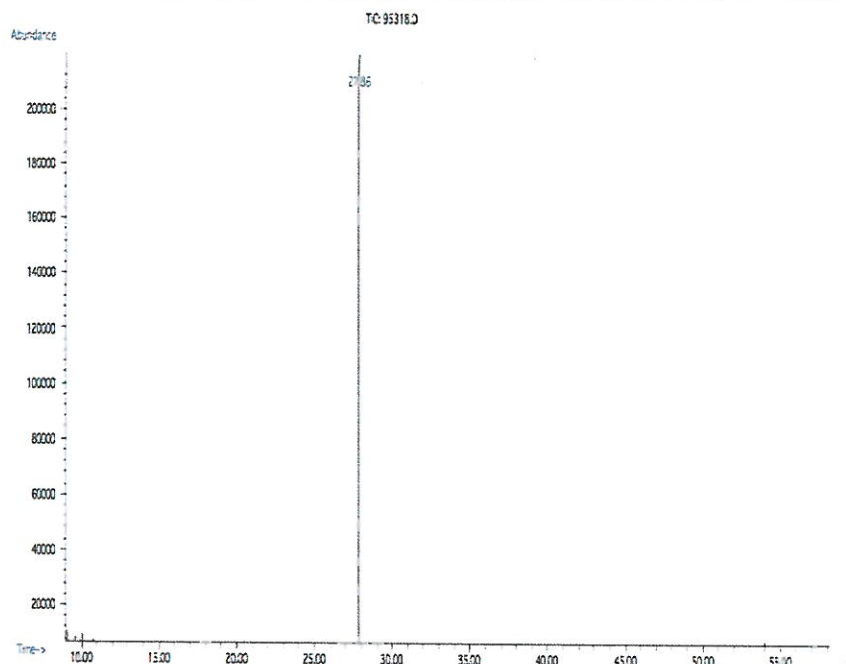
Solvent(s): **Methanol**
Lot#: **EA899-US**

		121321
Formulated By:	Benson Chan	DATE
		121321
Reviewed By:	Pedro L. Rentas	DATE

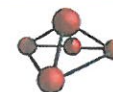
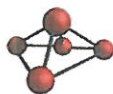
Expiration Date: **121324**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**
Weight(s) shown below were combined and diluted to (mL): **30.0**
5E-05 Balance Uncertainty
0.0003 Flask Uncertainty

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**

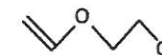
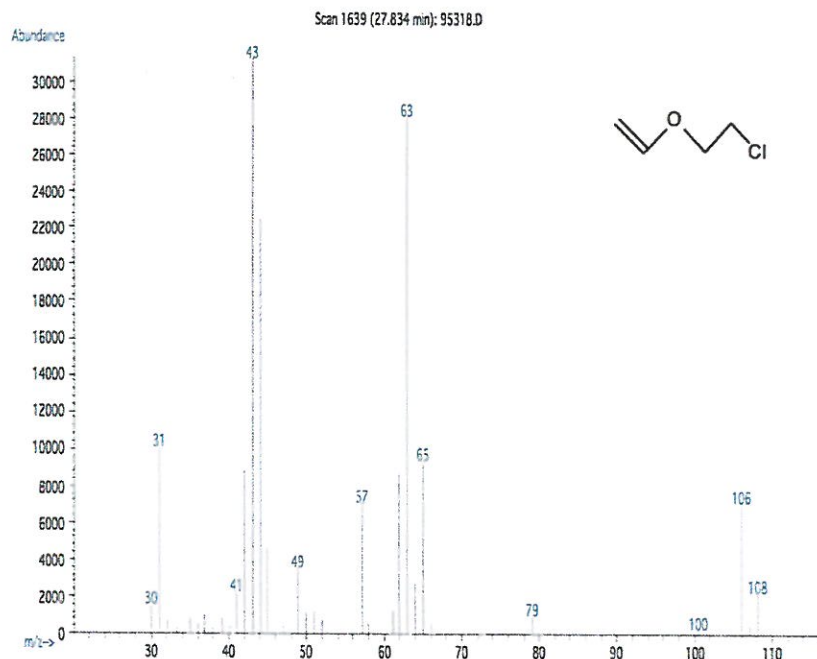
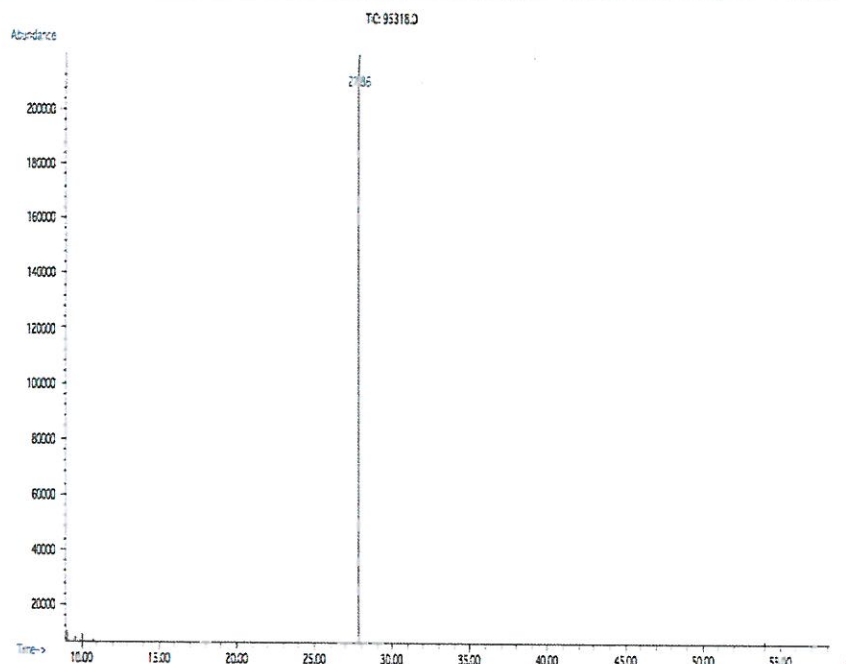
Solvent(s): **Methanol**
Lot#: **EA899-US**

		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).



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. : 30006 **Lot No.:** A0186767

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 : September 30, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Acetone CAS # 67-64-1 (Lot MKCQ7914) Purity 99%	5,046.8 µg/mL	+/- 29.3427 µg/mL Gravimetric +/- 304.4978 µg/mL Unstressed +/- 305.2207 µg/mL Stressed
2	2-Butanone (MEK) CAS # 78-93-3 (Lot SHBN2844) Purity 99%	5,048.8 µg/mL	+/- 29.3544 µg/mL Gravimetric +/- 304.6185 µg/mL Unstressed +/- 305.3417 µg/mL Stressed
3	4-Methyl-2-pentanone (MIBK) CAS # 108-10-1 (Lot SHBN3601) Purity 99%	5,045.0 µg/mL	+/- 29.3321 µg/mL Gravimetric +/- 304.3872 µg/mL Unstressed +/- 305.1099 µg/mL Stressed
4	2-Hexanone CAS # 591-78-6 (Lot MKCQ6663) Purity 99%	5,045.3 µg/mL	+/- 29.3340 µg/mL Gravimetric +/- 304.4073 µg/mL Unstressed +/- 305.1300 µg/mL Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
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:

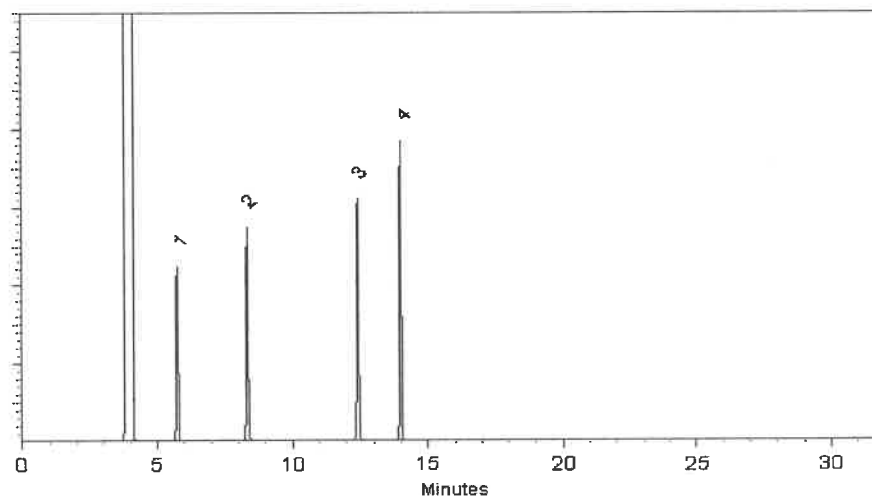
200°C

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.

Bethany Lowery
Bethany Lowery - Operations Tech I

Date Mixed: 28-Jun-2022

Balance: B251644995

Christie Mills
Christie Mills - Operations Tech II - ARM QC

Date Passed: 30-Jun-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 Lot No.: A0181905
Description : tert-Butanol Standard
tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : February 28, 2025 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)												
1	tert-Butanol (TBA) CAS # 75-65-0 Purity 99% (Lot SHBM7694)	50,126.0 µg/mL	<table><tr><td>+/-</td><td>293.4988</td><td>µg/mL</td><td>Gravimetric</td></tr><tr><td>+/-</td><td>1,073.7654</td><td>µg/mL</td><td>Unstressed</td></tr><tr><td>+/-</td><td>1,104.9494</td><td>µg/mL</td><td>Stressed</td></tr></table>	+/-	293.4988	µg/mL	Gravimetric	+/-	1,073.7654	µg/mL	Unstressed	+/-	1,104.9494	µg/mL	Stressed
+/-	293.4988	µg/mL	Gravimetric												
+/-	1,073.7654	µg/mL	Unstressed												
+/-	1,104.9494	µg/mL	Stressed												

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

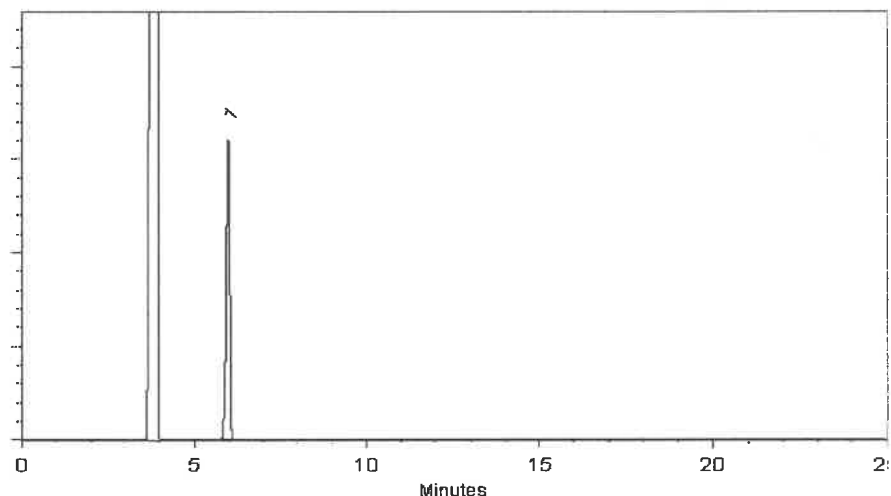
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 16-Feb-2022

Balance: B442140311

Marlene Cowan - Operations Tech I

Date Passed: 21-Feb-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0191703
Description : tert-Butanol Standard
tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : November 30, 2025 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	tert-Butanol (TBA) CAS # 75-65-0 Purity 99% (Lot 101619K21F-1)	50,122.0 µg/mL	+/- 293.4753 µg/mL Gravimetric +/- 1,073.6797 µg/mL Unstressed +/- 1,104.8612 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

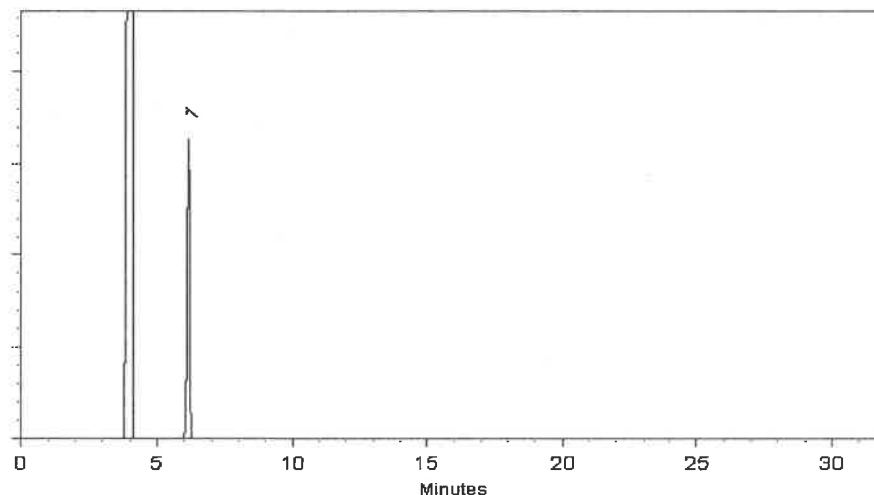
200°C

Det. Temp:

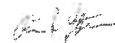
250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Alicia Leathers - Operation Technician I

Date Mixed: 15-Nov-2022

Balance: 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 17-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

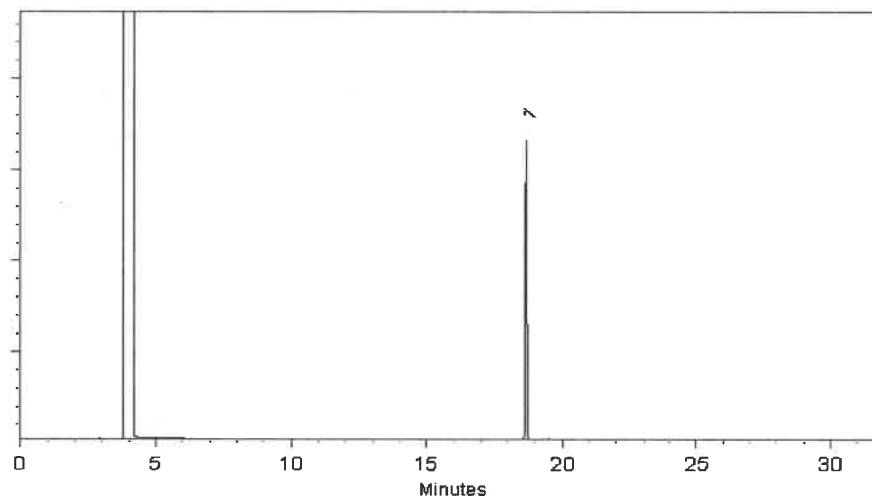
FID

Split Vent:

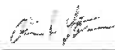
40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022

Balance Serial # B251644995


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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. : 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:

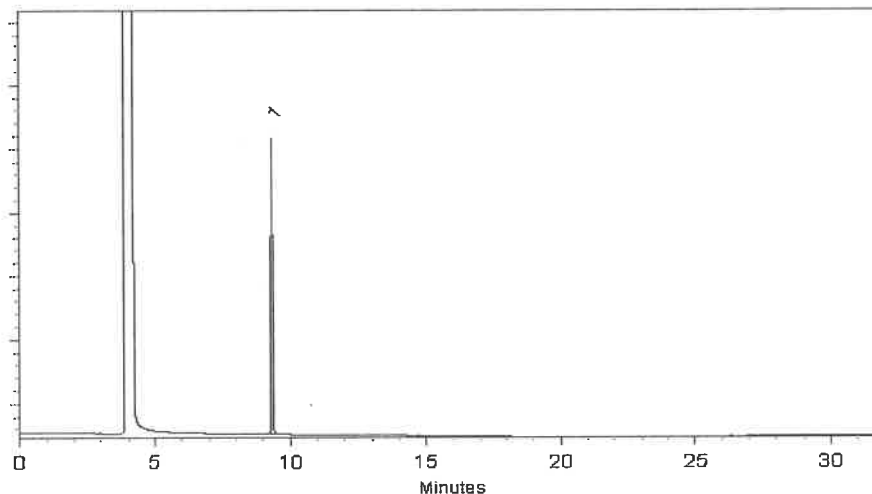
FID

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.



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. : 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:

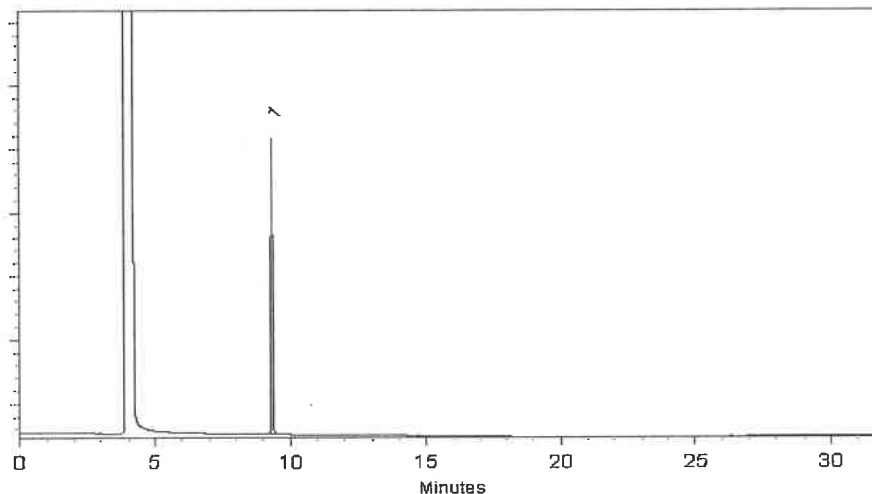
FID

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.



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. : 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:

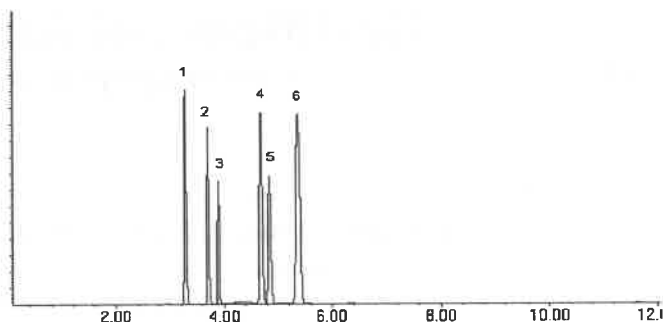
MSD

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/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

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. : 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:

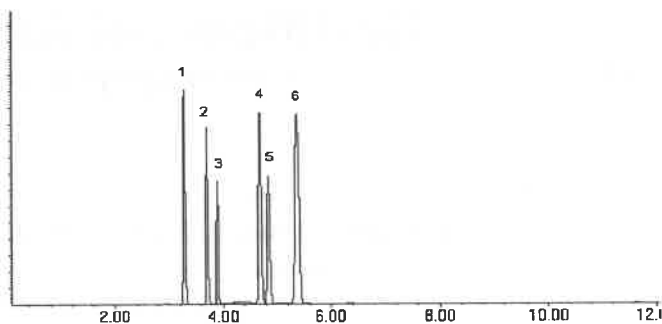
MSD

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/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

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.:** A0196115
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, 2024 **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%	2,013.7 µg/mL	+/- 69.6015
2	Vinyl acetate	108-05-4	RD220630	99%	2,020.0 µg/mL	+/- 69.8205
3	Ethyl acetate	141-78-6	SHBP9289	99%	2,019.3 µg/mL	+/- 69.7974
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,014.0 µg/mL	+/- 69.6131
5	Propyl acetate	109-60-4	TFFKL	99%	2,014.7 µg/mL	+/- 69.6361
6	Butyl acetate	123-86-4	SHBP6314	99%	2,014.0 µg/mL	+/- 69.6131
7	Amyl acetate	628-63-7	41325/1	97%	2,016.3 µg/mL	+/- 69.6928

* 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:

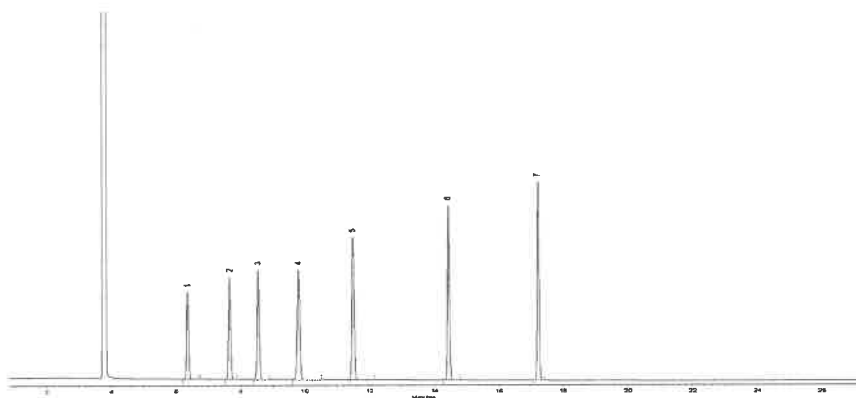
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

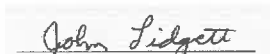


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Bethany Lowery - Operations Tech I

Date Mixed: 21-Mar-2023

Balance Serial # B251644995


John Lidgett - AD Chemist

Date Passed: 29-Mar-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.



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.:** A0196115

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, 2024 **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%	2,013.7 µg/mL	+/- 69.6015
2	Vinyl acetate	108-05-4	RD220630	99%	2,020.0 µg/mL	+/- 69.8205
3	Ethyl acetate	141-78-6	SHBP9289	99%	2,019.3 µg/mL	+/- 69.7974
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,014.0 µg/mL	+/- 69.6131
5	Propyl acetate	109-60-4	TFFKL	99%	2,014.7 µg/mL	+/- 69.6361
6	Butyl acetate	123-86-4	SHBP6314	99%	2,014.0 µg/mL	+/- 69.6131
7	Amyl acetate	628-63-7	41325/1	97%	2,016.3 µg/mL	+/- 69.6928

* 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:

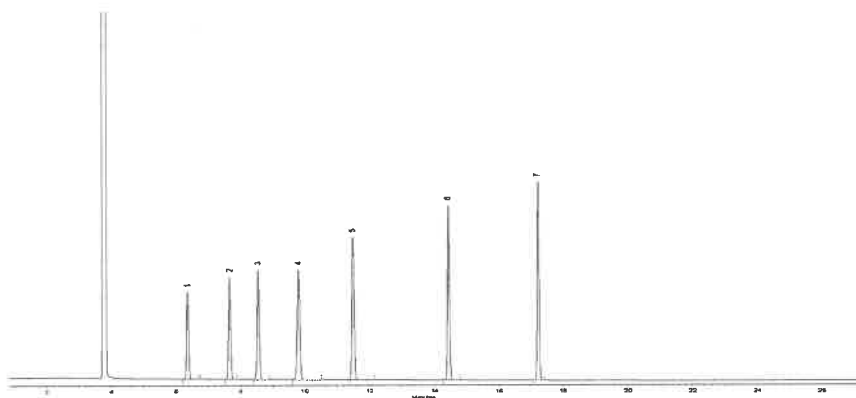
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

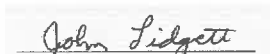


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Bethany Lowery - Operations Tech I

Date Mixed: 21-Mar-2023

Balance Serial # B251644995


John Lidgett - AD Chemist

Date Passed: 29-Mar-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.



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

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.



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

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.



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. : 30042 **Lot No.:** A0197644

Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2030 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00012554	99%	2,001.6 µg/mL	+/- 112.7159
2	Chloromethane (methyl chloride)	74-87-3	SHBM9611	99%	2,002.0 µg/mL	+/- 112.7840
3	Vinyl chloride	75-01-4	00015559	99%	2,002.2 µg/mL	+/- 112.6713
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8861
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.9 µg/mL	+/- 112.5990
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	1,999.2 µg/mL	+/- 112.4861

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

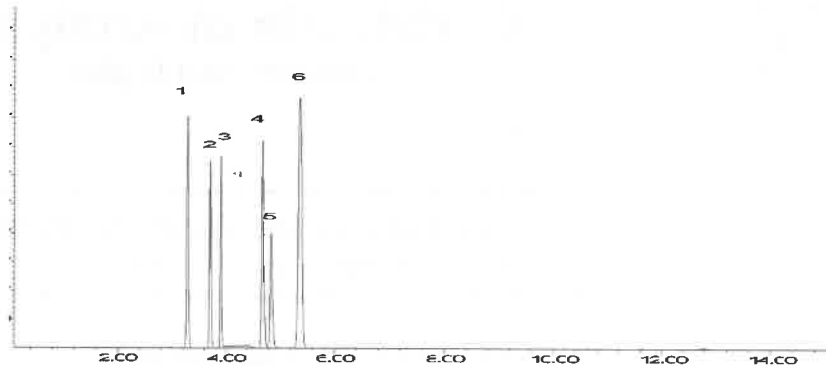
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Brittany Federinko - Operations Tech I

Date Mixed: 02-May-2023

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-May-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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.:** A0199224

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 : December 31, 2024 **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%	2,015.0 µg/mL	+/- 69.6476
2	Vinyl acetate	108-05-4	RD220630	99%	2,014.3 µg/mL	+/- 69.6246
3	Ethyl acetate	141-78-6	SHBP9289	99%	2,012.7 µg/mL	+/- 69.5670
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,017.0 µg/mL	+/- 69.7168
5	Propyl acetate	109-60-4	KLOBM	99%	2,007.7 µg/mL	+/- 69.3942
6	Butyl acetate	123-86-4	SHBP6314	99%	2,014.3 µg/mL	+/- 69.6246
7	Amyl acetate	628-63-7	41325/1	97%	2,012.1 µg/mL	+/- 69.5475

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

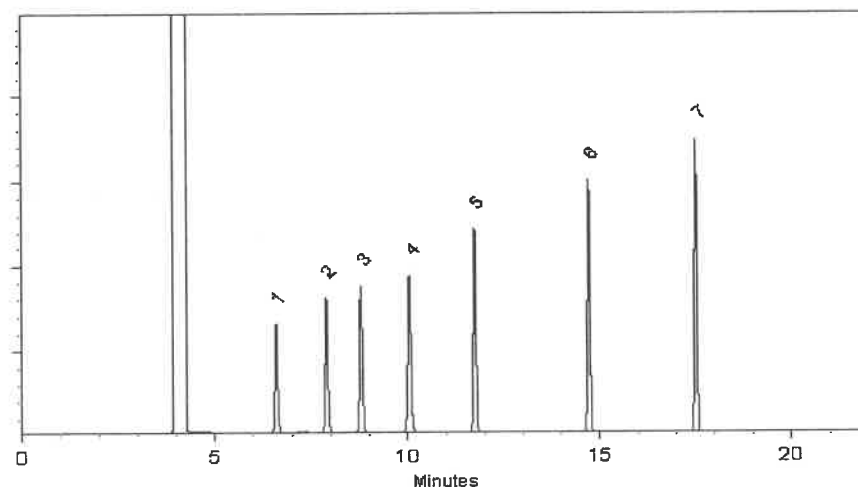
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 22-Jun-2023

Balance Serial # B251644995


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-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.



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. : 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:

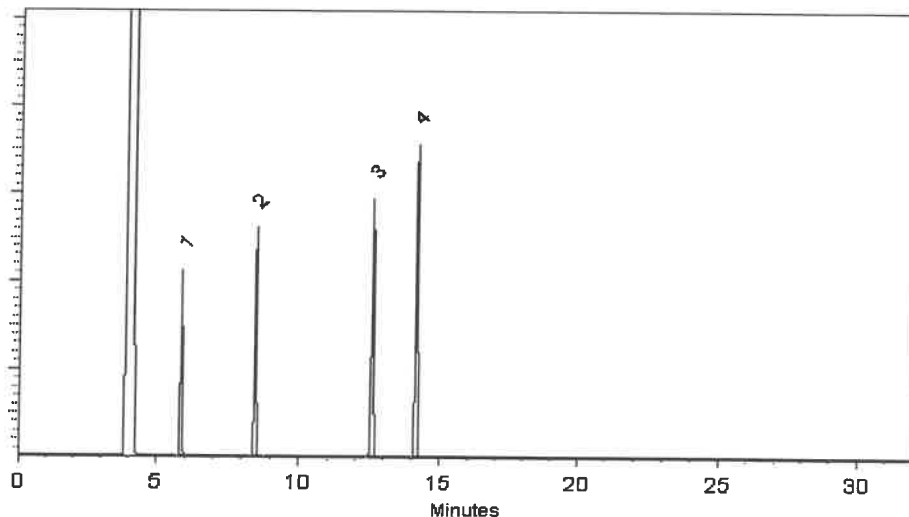
FID

Split Vent:

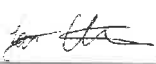
40 ml/min

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:

- 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. : 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:

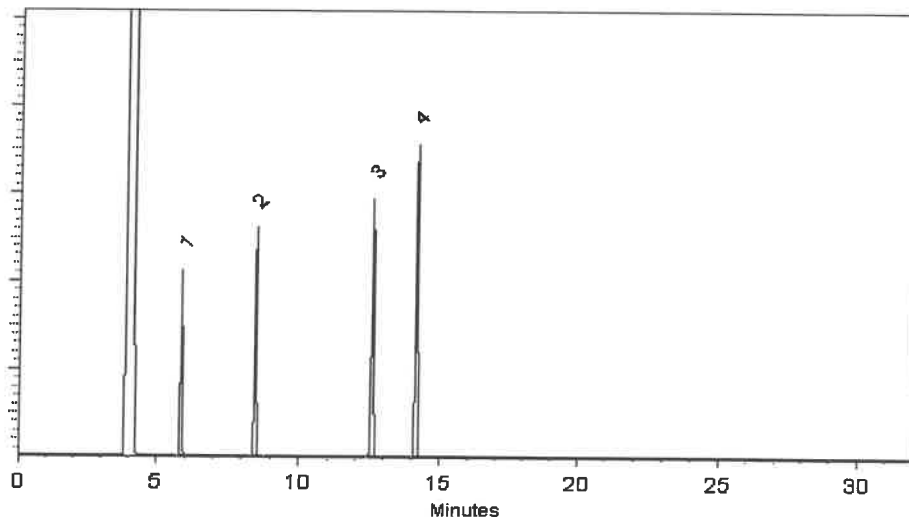
FID

Split Vent:

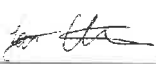
40 ml/min

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:

- 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. : 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:

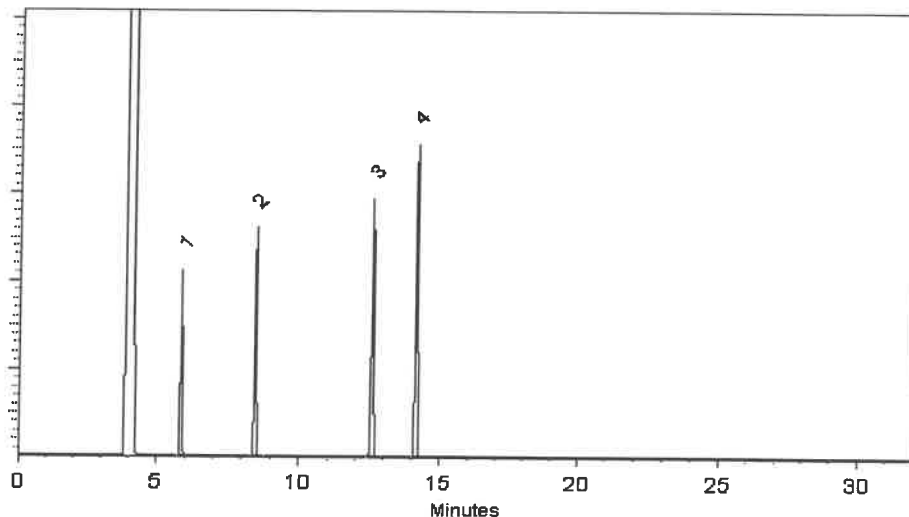
FID

Split Vent:

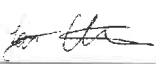
40 ml/min

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:

- 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



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-FL **Lot No.:** A0205177
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%	8,047.8 µg/mL	+/- 278.1675

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

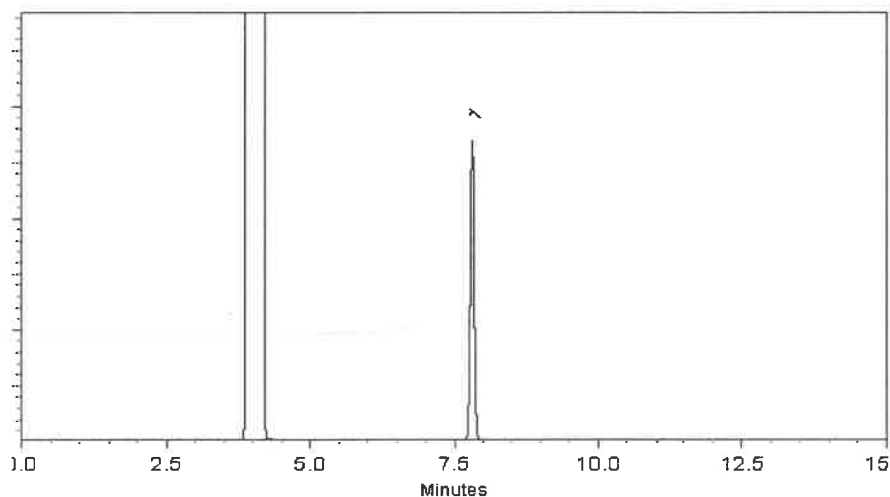
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 06-Dec-2023

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Dec-2023

APPROVED
By the Instrumentation & QA Dept. (11/15/23)

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

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:

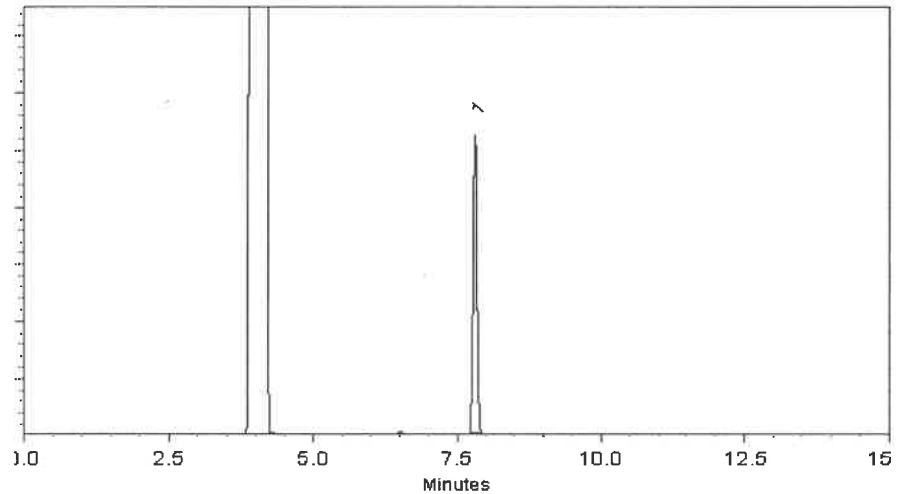
FID

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.
- 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

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:

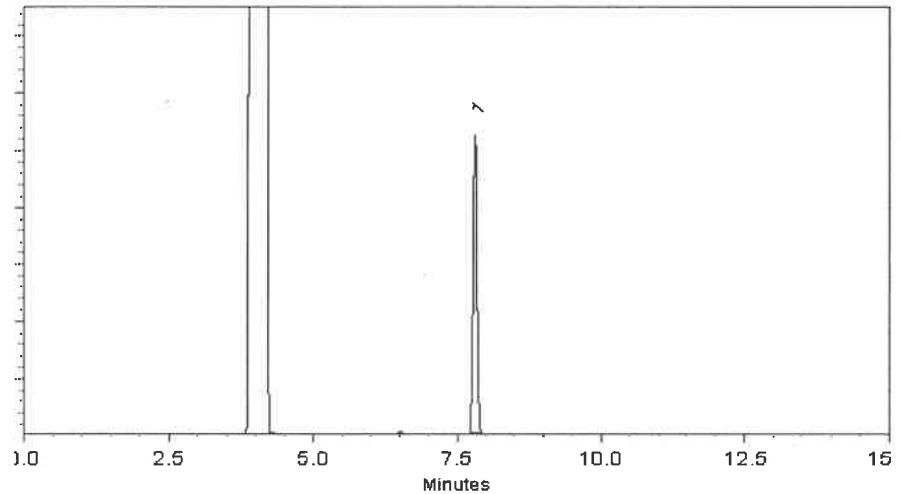
FID

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.
- 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

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555581 **Lot No.:** A0210184

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

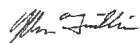
Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%


John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024

Balance: 1127510105

REVISED
By Restek Review of L&P, Apr 16, 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%.

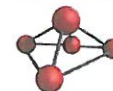
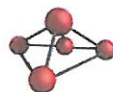
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

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.



CERTIFIED WEIGHT REPORT

Part Number: **70046**
Lot Number: **070122**
Description: **Bromochloromethane**

Solvent: **Methanol**
Lot#: **EC592-US**

<i>Gabriel Helland</i>		070122
Formulated By:	Gabriel Helland	DATE
<i>Pedro L. Rentas</i>		070122
Reviewed By:	Pedro L. Rentas	DATE

Expiration Date: 070127

Recommended Storage: Refrigerate (4 °C)

Nominal Concentration (µg/mL): 1000

NIST Test ID#: 6UTB

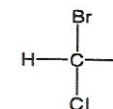
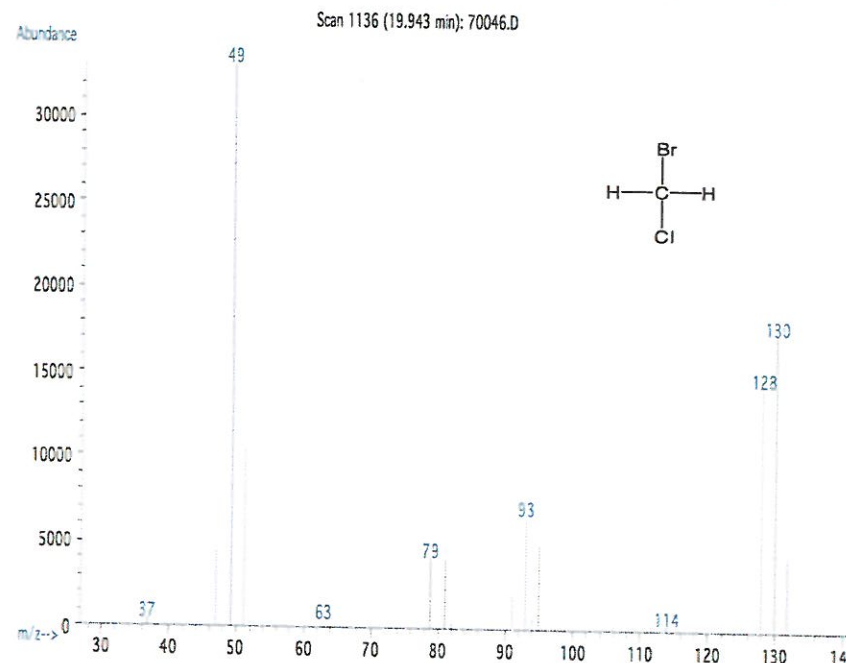
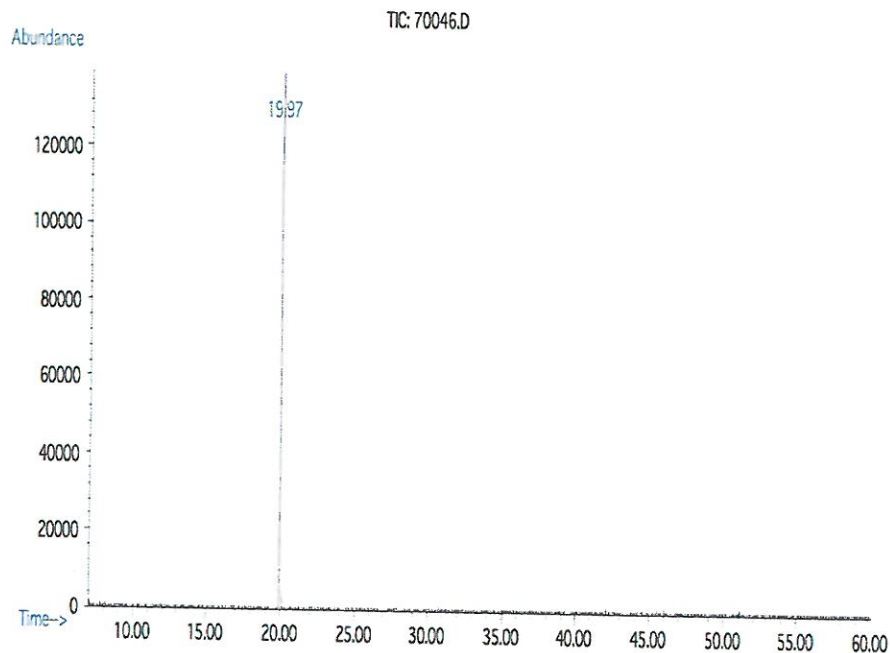
5E-05 Balance Uncertainty

0.0002 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 25.0

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. Bromochloromethane	46	AY01	1000	99	0.2	0.02530	0.02540	1004.1	5.7	74-97-5	200 ppm (1050mg/m ³ /8H)	ori-rat 5000mg/kg

Method GC6MSD-1.M: Column : (60m X 0.25mm X 1.5 µm) Temp 1 = 35°C (10min.), Temp 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector B= 200°C, Detector B = 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).

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (µeq/g)	≤ 0.3	0.2
Titration Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

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



SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. **P3451**
COC Number **2041308**

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: **Jacobs**
ADDRESS: **412 Mt Kramb Ave Suite #100**
CITY: **Morrisstown** STATE: **NJ** ZIP: **07960**
ATTENTION: **John Yphantis**
PHONE: **(281) 414-1719** FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: **STC PTC**
PROJECT NO.: **D3779972** LOCATION: **Princeton Junction**
PROJECT MANAGER: **Mary Murphy**
e-mail: **Mary.Murphy@Jacobs.com**
PHONE: **(761) 936-0586** FAX:

CLIENT BILLING INFORMATION

BILL TO: **Mary Murphy** PO#:
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) **Standard TAT** DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☒ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
☐ EDD FORMAT

VOCs 8260D
SVOCs 8260E
Metals 6020B, Hg
7172B
(PCV) 7196A

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		A/E	E	B/E	E							← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
1.	921-J-WS-650124	WS		X	8/1/24	1420	6	2	2	1	1							
2.	TB-03-080124	DI		X	8/1/24	1550	1	1										
3.																		
4.																		
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. [Signature]	DATE/TIME: 8/1/24 1630	RECEIVED BY: [Signature] 1630	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.0 °C
RELINQUISHED BY SAMPLER: 2. [Signature]	DATE/TIME:	RECEIVED BY:	Comments: See attached table for required analytes list of ECO-VOCs, ECO-SVOCs, and ECO metals
RELINQUISHED BY SAMPLER: 3. [Signature]	DATE/TIME: 1730	RECEIVED BY:	

Page **1** of **1**

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete
☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT

YELLOW - CHEMTECH COPY

PINK - SAMPLER COPY



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (L-A-B)	L2219
Maine	2024021
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P3451 JACO05

Order Date : 8/1/2024 4:38:00 PM

Project Mgr :

Client Name : JACOBS Engineering Grou

Project Name : Former Schlumberger Site I

Report Type : Level 4

Client Contact : Mary I. Murphy

Receive DateTime : 8/1/2024 ~~12:00:00 AM~~

EDD Type : CH2MHILL

Invoice Name : JACOBS Engineering Grou

Purchase Order :

17:30

Hard Copy Date :

Invoice Contact : Mary I. Murphy

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P3451-01	921-J-WS-080124	Water	08/01/2024	14:20					
					VOCMS Group6		8260-Low	10 Bus. Days	
P3451-02	TB-03-080124	Water	08/01/2024	15:50					
					VOCMS Group6		8260-Low	10 Bus. Days	

Relinquished By :

Date / Time :

8/2/24 0730

Received By :

Date / Time :

8/2/24 7:10 Ref # 4

Storage Area : VOA Refridgerator Room