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

Cover Page

Order ID : P3457

Project ID : Former Schlumberger Site Princeton NJ

Client : JACOBS Engineering Group, Inc.

Lab Sample Number	Client Sample Number
P3457-01	924-K1-WS-080224
P3457-02	932-K1-WS-080224
P3457-03	TB-01-080224

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: 8/27/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

CASE NARRATIVE

JACOBS Engineering Group, Inc.
Project Name: Former Schlumberger Site Princeton NJ
Project # N/A
Chemtech Project # P3457
Test Name: VOCMS Group6

A. Number of Samples and Date of Receipt:
3 Water samples were received on 08/02/2024.

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 performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe 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 except for TB-01-080224 [1,2-Dichloroethane-d4- 129%]this compound met the NJDKQP criteria but did not meet the in-house criteria but there was only one vial and now no more vials for confirmation therefore this data reported as Final Analysis.

The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.

The %RSD is greater than 15% in the Initial Calibration method (82X080724W.M) for Methylene chloride this compound is passing on Quadratic Regression.

The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

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

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. The Blank Spike Duplicate is reported with the data.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <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.

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_____

284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

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 is 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: P3457 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 %RSD is greater than 15% in the Initial Calibration method (82X080724W.M) for Methylene chloride this compound is passing on Quadratic Regression. 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. The Surrogate recoveries met the acceptable criteria except for TB-01-080224 [1,2-Dichloroethane-d4- 129%]this compound met the NJDKQP criteria but did not meet the in-house criteria but there was only one vial and now no more vials for confirmation therefore this data reported as Final Analysis.		✓	
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples .			✓
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓

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

		NA	NO	YES
10.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

This data package has been revised due to parameter list changed as per client request.

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

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the % RSD value for a compound is <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

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **P3457**

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

1st Level QA Review Signature: **PRADIP PRAJAPATI** **Date:** **08/27/2024**

2nd Level QA Review Signature: _____ **Date:** _____

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

LAB CHRONICLE

OrderID:	P3457	**OrderDate:**	8/2/2024 12:31:00 PM
Client:	JACOBS Engineering Group, Inc.	**Project:**	Former Schlumberger Site Princeton NJ
Contact:	Mary I. Murphy	**Location:**	J21,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3457-01	**924-K1-WS-080224**	**Water**			**08/02/24**			**08/02/24**
			VOCMS Group6	8260-Low			08/09/24	
P3457-02	**932-K1-WS-080224**	**Water**			**08/02/24**			**08/02/24**
			VOCMS Group6	8260-Low			08/10/24	
P3457-03	**TB-01-080224**	**Water**			**08/02/24**			**08/02/24**
			VOCMS Group6	8260-Low			08/09/24	

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

Hit Summary Sheet
SW-846

SDG No.: P3457

Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**924-K1-WS-080224**							
P3457-01	924-K1-WS-080224	Water	Acetone	4.90	J	1.40	5.00	ug/L
P3457-01	924-K1-WS-080224	Water	Toluene	0.34	J	0.18	1.00	ug/L
			Total Voc :	5.24				
			Total Concentration:	5.24				
Client ID:	**932-K1-WS-080224**							
P3457-02	932-K1-WS-080224	Water	Acetone	2.90	J	1.40	5.00	ug/L
P3457-02	932-K1-WS-080224	Water	Toluene	0.59	J	0.18	1.00	ug/L
			Total Voc :	3.49				
			Total Concentration:	3.49				

QC
SUMMARY

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

Surrogate Summary

SDG No.: P3457

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P3457-01	924-K1-WS-080224	1,2-Dichloroethane-d4	50	52.3	105	70 (74)	130 (125)
		Dibromofluoromethane	50	50.8	102	70 (75)	130 (124)
		Toluene-d8	50	53.5	107	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.9	100	70 (77)	130 (121)
P3457-02	932-K1-WS-080224	1,2-Dichloroethane-d4	50	59.0	118	70 (74)	130 (125)
		Dibromofluoromethane	50	56.1	112	70 (75)	130 (124)
		Toluene-d8	50	56.0	112	70 (86)	130 (113)
		4-Bromofluorobenzene	50	60.8	122	70 (77)	130 (121)
P3457-03	TB-01-080224	1,2-Dichloroethane-d4	50	64.5	129	70 (74)	130 (125)
		Dibromofluoromethane	50	56.8	114	70 (75)	130 (124)
		Toluene-d8	50	50.5	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.3	101	70 (77)	130 (121)
VN0810WBL02	VN0810WBL02	1,2-Dichloroethane-d4	50	57.2	114	70 (74)	130 (125)
		Dibromofluoromethane	50	53.0	106	70 (75)	130 (124)
		Toluene-d8	50	53.4	107	70 (86)	130 (113)
		4-Bromofluorobenzene	50	54.3	109	70 (77)	130 (121)
VN0810WBS01	VN0810WBS01	1,2-Dichloroethane-d4	50	56.1	112	70 (74)	130 (125)
		Dibromofluoromethane	50	52.3	105	70 (75)	130 (124)
		Toluene-d8	50	52.3	105	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.8	104	70 (77)	130 (121)
VN0810WBSD0	VN0810WBSD01	1,2-Dichloroethane-d4	50	57.5	115	70 (74)	130 (125)
		Dibromofluoromethane	50	52.4	105	70 (75)	130 (124)
		Toluene-d8	50	52.5	105	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.9	106	70 (77)	130 (121)
VX0808WBL02	VX0808WBL02	1,2-Dichloroethane-d4	50	55.4	111	70 (74)	130 (125)
		Dibromofluoromethane	50	51.3	103	70 (75)	130 (124)
		Toluene-d8	50	49.6	99	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.1	98	70 (77)	130 (121)
VX0808WBS02	VX0808WBS02	1,2-Dichloroethane-d4	50	57.4	115	70 (74)	130 (125)
		Dibromofluoromethane	50	53.6	107	70 (75)	130 (124)
		Toluene-d8	50	54.6	109	70 (86)	130 (113)
		4-Bromofluorobenzene	50	53.5	107	70 (77)	130 (121)
VX0809WBL01	VX0809WBL01	1,2-Dichloroethane-d4	50	50.4	101	70 (74)	130 (125)
		Dibromofluoromethane	50	50.2	100	70 (75)	130 (124)
		Toluene-d8	50	52.1	104	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.3	97	70 (77)	130 (121)
VX0809WBS01	VX0809WBS01	1,2-Dichloroethane-d4	50	53.8	108	70 (74)	130 (125)
		Dibromofluoromethane	50	52.2	104	70 (75)	130 (124)
		Toluene-d8	50	51.1	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.2	102	70 (77)	130 (121)

( ) = LABORATORY INHOUSE LIMIT

( ) = LABORATORY INHOUSE LIMIT

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P3457

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low **Datafile :** VN083200.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0810WBS01	Dichlorodifluoromethane	20	19.2	ug/L	96			40 (69)	160 (116)	
	Chloromethane	20	17.8	ug/L	89			40 (65)	160 (116)	
	Vinyl chloride	20	19.2	ug/L	96			70 (65)	130 (117)	
	Bromomethane	20	18.1	ug/L	91			40 (58)	160 (125)	
	Chloroethane	20	18.8	ug/L	94			40 (56)	160 (128)	
	1,1,2-Trichlorotrifluoroethane	20	19.5	ug/L	98			70 (80)	130 (112)	
	1,1-Dichloroethene	20	18.1	ug/L	91			70 (74)	130 (110)	
	Acetone	100	100	ug/L	100			40 (60)	160 (125)	
	Carbon disulfide	20	16.4	ug/L	82			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	19.2	ug/L	96			70 (78)	130 (114)	
	Methylene Chloride	20	17.6	ug/L	88			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	18.3	ug/L	92			70 (75)	130 (108)	
	1,1-Dichloroethane	20	19.6	ug/L	98			70 (78)	130 (112)	
	Cyclohexane	20	18.5	ug/L	93			70 (75)	130 (110)	
	2-Butanone	100	95.4	ug/L	95			40 (65)	160 (122)	
	Carbon Tetrachloride	20	19.2	ug/L	96			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	18.4	ug/L	92			70 (77)	130 (110)	
	Chloroform	20	20.0	ug/L	100			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	19.8	ug/L	99			70 (80)	130 (108)	
	Methylcyclohexane	20	18.2	ug/L	91			70 (72)	130 (115)	
	Benzene	20	19.0	ug/L	95			70 (82)	130 (109)	
	1,2-Dichloroethane	20	19.8	ug/L	99			70 (80)	130 (115)	
	Trichloroethene	20	18.2	ug/L	91			70 (77)	130 (113)	
	Bromodichloromethane	20	19.1	ug/L	96			70 (83)	130 (110)	
	Toluene	20	18.9	ug/L	95			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	19.7	ug/L	99			70 (83)	130 (112)	
	Dibromochloromethane	20	18.9	ug/L	95			70 (82)	130 (110)	
	Tetrachloroethene	20	18.3	ug/L	92			70 (67)	130 (123)	
	Chlorobenzene	20	18.6	ug/L	93			70 (82)	130 (109)	
	Ethyl Benzene	20	18.8	ug/L	94			70 (83)	130 (109)	
	m/p-Xylenes	40	36.9	ug/L	92			70 (82)	130 (110)	
	o-Xylene	20	18.7	ug/L	94			70 (83)	130 (109)	
	Isopropylbenzene	20	18.9	ug/L	95			70 (83)	130 (112)	
	1,4-Dichlorobenzene	20	18.2	ug/L	91			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	18.3	ug/L	92			70 (82)	130 (109)	

( ) = LABORATORY INHOUSE LIMIT

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P3457

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low **Datafile :** VN083201.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN0810WBSD01	Dichlorodifluoromethane	20	18.5	ug/L	93	3		40 (69)	160 (116)	20 (20)
	Chloromethane	20	18.3	ug/L	92	3		40 (65)	160 (116)	20 (20)
	Vinyl chloride	20	18.6	ug/L	93	3		70 (65)	130 (117)	20 (20)
	Bromomethane	20	18.8	ug/L	94	3		40 (58)	160 (125)	20 (20)
	Chloroethane	20	19.3	ug/L	97	3		40 (56)	160 (128)	20 (20)
	1,1,2-Trichlorotrifluoroethane	20	19.6	ug/L	98	0		70 (80)	130 (112)	20 (20)
	1,1-Dichloroethene	20	18.4	ug/L	92	1		70 (74)	130 (110)	20 (20)
	Acetone	100	98.2	ug/L	98	2		40 (60)	160 (125)	20 (20)
	Carbon disulfide	20	16.5	ug/L	83	1		40 (64)	160 (112)	20 (20)
	Methyl tert-butyl Ether	20	19.8	ug/L	99	3		70 (78)	130 (114)	20 (20)
	Methylene Chloride	20	18.0	ug/L	90	2		70 (72)	130 (114)	20 (20)
	trans-1,2-Dichloroethene	20	17.8	ug/L	89	3		70 (75)	130 (108)	20 (20)
	1,1-Dichloroethane	20	19.6	ug/L	98	0		70 (78)	130 (112)	20 (20)
	Cyclohexane	20	17.4	ug/L	87	7		70 (75)	130 (110)	20 (20)
	2-Butanone	100	98.3	ug/L	98	3		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	19.1	ug/L	96	0		70 (77)	130 (113)	20 (20)
	cis-1,2-Dichloroethene	20	19.2	ug/L	96	4		70 (77)	130 (110)	20 (20)
	Chloroform	20	20.3	ug/L	102	2		70 (79)	130 (113)	20 (20)
	1,1,1-Trichloroethane	20	19.6	ug/L	98	1		70 (80)	130 (108)	20 (20)
	Methylcyclohexane	20	18.3	ug/L	92	1		70 (72)	130 (115)	20 (20)
	Benzene	20	19.3	ug/L	97	2		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	20.9	ug/L	104	5		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	19.2	ug/L	96	5		70 (77)	130 (113)	20 (20)
	Bromodichloromethane	20	19.6	ug/L	98	2		70 (83)	130 (110)	20 (20)
	Toluene	20	19.0	ug/L	95	0		70 (82)	130 (110)	20 (20)
	1,1,2-Trichloroethane	20	20.9	ug/L	104	5		70 (83)	130 (112)	20 (20)
	Dibromochloromethane	20	20.3	ug/L	102	7		70 (82)	130 (110)	20 (20)
	Tetrachloroethene	20	18.7	ug/L	94	2		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	18.8	ug/L	94	1		70 (82)	130 (109)	20 (20)
	Ethyl Benzene	20	18.7	ug/L	94	0		70 (83)	130 (109)	20 (20)
	m/p-Xylenes	40	37.6	ug/L	94	2		70 (82)	130 (110)	20 (20)
	o-Xylene	20	18.7	ug/L	94	0		70 (83)	130 (109)	20 (20)
	Isopropylbenzene	20	18.6	ug/L	93	2		70 (83)	130 (112)	20 (20)
	1,4-Dichlorobenzene	20	18.5	ug/L	93	2		70 (82)	130 (107)	20 (20)
	1,2-Dichlorobenzene	20	18.7	ug/L	94	2		70 (82)	130 (109)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P3457

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low **Datafile :** VX042965.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0808WBS02	Dichlorodifluoromethane	20	20.3	ug/L	102			40 (69)	160 (116)	
	Chloromethane	20	20.0	ug/L	100			40 (65)	160 (116)	
	Vinyl chloride	20	20.5	ug/L	103			70 (65)	130 (117)	
	Bromomethane	20	20.7	ug/L	104			40 (58)	160 (125)	
	Chloroethane	20	19.6	ug/L	98			40 (56)	160 (128)	
	1,1,2-Trichlorotrifluoroethane	20	20.4	ug/L	102			70 (80)	130 (112)	
	1,1-Dichloroethene	20	20.1	ug/L	101			70 (74)	130 (110)	
	Acetone	100	98.6	ug/L	99			40 (60)	160 (125)	
	Carbon disulfide	20	18.4	ug/L	92			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	20.2	ug/L	101			70 (78)	130 (114)	
	Methylene Chloride	20	20.4	ug/L	102			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	20.3	ug/L	102			70 (75)	130 (108)	
	1,1-Dichloroethane	20	20.9	ug/L	104			70 (78)	130 (112)	
	Cyclohexane	20	20.8	ug/L	104			70 (75)	130 (110)	
	2-Butanone	100	100	ug/L	100			40 (65)	160 (122)	
	Carbon Tetrachloride	20	18.5	ug/L	93			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	20.9	ug/L	104			70 (77)	130 (110)	
	Chloroform	20	20.8	ug/L	104			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	20.4	ug/L	102			70 (80)	130 (108)	
	Methylcyclohexane	20	19.2	ug/L	96			70 (72)	130 (115)	
	Benzene	20	20.0	ug/L	100			70 (82)	130 (109)	
	1,2-Dichloroethane	20	20.1	ug/L	101			70 (80)	130 (115)	
	Trichloroethene	20	19.3	ug/L	97			70 (77)	130 (113)	
	Bromodichloromethane	20	19.6	ug/L	98			70 (83)	130 (110)	
	Toluene	20	20.0	ug/L	100			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	20.0	ug/L	100			70 (83)	130 (112)	
	Dibromochloromethane	20	19.4	ug/L	97			70 (82)	130 (110)	
	Tetrachloroethene	20	20.2	ug/L	101			70 (67)	130 (123)	
	Chlorobenzene	20	19.6	ug/L	98			70 (82)	130 (109)	
	Ethyl Benzene	20	19.9	ug/L	100			70 (83)	130 (109)	
	m/p-Xylenes	40	38.7	ug/L	97			70 (82)	130 (110)	
	o-Xylene	20	20.1	ug/L	101			70 (83)	130 (109)	
	Isopropylbenzene	20	20.2	ug/L	101			70 (83)	130 (112)	
	1,4-Dichlorobenzene	20	19.0	ug/L	95			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	20.3	ug/L	102			70 (82)	130 (109)	

( ) = LABORATORY INHOUSE LIMIT

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P3457

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low **Datafile :** VX042989.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0809WBS01	Dichlorodifluoromethane	20	19.2	ug/L	96			40 (69)	160 (116)	
	Chloromethane	20	19.8	ug/L	99			40 (65)	160 (116)	
	Vinyl chloride	20	19.5	ug/L	98			70 (65)	130 (117)	
	Bromomethane	20	20.3	ug/L	102			40 (58)	160 (125)	
	Chloroethane	20	19.6	ug/L	98			40 (56)	160 (128)	
	1,1,2-Trichlorotrifluoroethane	20	19.3	ug/L	97			70 (80)	130 (112)	
	1,1-Dichloroethene	20	18.1	ug/L	91			70 (74)	130 (110)	
	Acetone	100	100	ug/L	100			40 (60)	160 (125)	
	Carbon disulfide	20	17.0	ug/L	85			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	19.5	ug/L	98			70 (78)	130 (114)	
	Methylene Chloride	20	19.1	ug/L	96			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	19.3	ug/L	97			70 (75)	130 (108)	
	1,1-Dichloroethane	20	20.1	ug/L	101			70 (78)	130 (112)	
	Cyclohexane	20	19.4	ug/L	97			70 (75)	130 (110)	
	2-Butanone	100	110	ug/L	110			40 (65)	160 (122)	
	Carbon Tetrachloride	20	18.4	ug/L	92			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	19.9	ug/L	100			70 (77)	130 (110)	
	Chloroform	20	19.2	ug/L	96			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	19.0	ug/L	95			70 (80)	130 (108)	
	Methylcyclohexane	20	18.7	ug/L	94			70 (72)	130 (115)	
	Benzene	20	19.5	ug/L	98			70 (82)	130 (109)	
	1,2-Dichloroethane	20	19.9	ug/L	100			70 (80)	130 (115)	
	Trichloroethene	20	19.1	ug/L	96			70 (77)	130 (113)	
	Bromodichloromethane	20	19.2	ug/L	96			70 (83)	130 (110)	
	Toluene	20	19.5	ug/L	98			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	19.8	ug/L	99			70 (83)	130 (112)	
	Dibromochloromethane	20	18.6	ug/L	93			70 (82)	130 (110)	
	Tetrachloroethene	20	18.4	ug/L	92			70 (67)	130 (123)	
	Chlorobenzene	20	18.9	ug/L	95			70 (82)	130 (109)	
	Ethyl Benzene	20	19.4	ug/L	97			70 (83)	130 (109)	
	m/p-Xylenes	40	38.5	ug/L	96			70 (82)	130 (110)	
	o-Xylene	20	19.2	ug/L	96			70 (83)	130 (109)	
	Isopropylbenzene	20	20.0	ug/L	100			70 (83)	130 (112)	
	1,4-Dichlorobenzene	20	18.7	ug/L	94			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	19.1	ug/L	96			70 (82)	130 (109)	

( ) = LABORATORY INHOUSE LIMIT

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

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0810WBL02

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3457 SAS No.: P3457 SDG NO.: P3457

Lab File ID: VN083199.D Lab Sample ID: VN0810WBL02

Date Analyzed: 08/10/2024 Time Analyzed: 11:34

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
VN0810WBS01	VN0810WBS01	VN083200.D	08/10/2024
VN0810WBSD01	VN0810WBSD01	VN083201.D	08/10/2024
932-K1-WS-080224	P3457-02	VN083218.D	08/10/2024

COMMENTS:

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

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0808WBL02

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3457 SAS No.: P3457 SDG NO.: P3457

Lab File ID: VX042964.D Lab Sample ID: VX0808WBL02

Date Analyzed: 08/09/2024 Time Analyzed: 01:48

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0808WBS02	VX0808WBS02	VX042965.D	08/09/2024
TB-01-080224	P3457-03	VX042968.D	08/09/2024

COMMENTS:

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

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0809WBL01

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3457 SAS No.: P3457 SDG NO.: P3457

Lab File ID: VX042988.D Lab Sample ID: VX0809WBL01

Date Analyzed: 08/09/2024 Time Analyzed: 11:52

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0809WBS01	VX0809WBS01	VX042989.D	08/09/2024
924-K1-WS-080224	P3457-01	VX043002.D	08/09/2024

COMMENTS:

Raw Data: **VN083134.D**

Alliance TECHNICAL GROUP
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.: P3457 SAS No.: P3457 SDG NO.: P3457

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

Raw Data: **VN083196.D**

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.: P3457 SAS No.: P3457 SDG NO.: P3457

Lab File ID: VN083196.D BFB Injection Date: 08/10/2024

Instrument ID: MSVOA_N BFB Injection Time: 09:22

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.6
75	30.0 - 60.0% of mass 95	54.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.6 (0.9) 1
174	50.0 - 100.0% of mass 95	69.1
175	5.0 - 9.0% of mass 174	5.1 (7.3) 1
176	95.0 - 101.0% of mass 174	67.3 (97.4) 1
177	5.0 - 9.0% of mass 176	4.3 (6.4) 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	VN083197.D	08/10/2024	10:46
VN0810WBL02	VN0810WBL02	VN083199.D	08/10/2024	11:34
VN0810WBS01	VN0810WBS01	VN083200.D	08/10/2024	11:58
VN0810WBSD01	VN0810WBSD01	VN083201.D	08/10/2024	12:32
932-K1-WS-080224	P3457-02	VN083218.D	08/10/2024	19:23

Raw Data: **VX042876.D**

Alliance TECHNICAL GROUP

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.: P3457 SAS No.: P3457 SDG NO.: P3457

Lab File ID: VX042876.D BFB Injection Date: 08/06/2024

Instrument ID: MSVOA_X BFB Injection Time: 17:07

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.4
75	30.0 - 60.0% of mass 95	51.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	1.1 (1.4) 1
174	50.0 - 100.0% of mass 95	78.9
175	5.0 - 9.0% of mass 174	5.7 (7.3) 1
176	95.0 - 101.0% of mass 174	75.3 (95.5) 1
177	5.0 - 9.0% of mass 176	4.8 (6.4) 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
VSTDICC001	VSTDICC001	VX042877.D	08/06/2024	18:18
VSTDICC005	VSTDICC005	VX042878.D	08/06/2024	18:41
VSTDICC020	VSTDICC020	VX042879.D	08/06/2024	19:05
VSTDICCC050	VSTDICCC050	VX042880.D	08/06/2024	19:28
VSTDICC100	VSTDICC100	VX042881.D	08/06/2024	19:51
VSTDICC150	VSTDICC150	VX042882.D	08/06/2024	20:15

Alliance TECHNICAL GROUP

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.: P3457 SAS No.: P3457 SDG NO.: P3457

Lab File ID: VX042962.D BFB Injection Date: 08/08/2024

Instrument ID: MSVOA_X BFB Injection Time: 23:48

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.2
75	30.0 - 60.0% of mass 95	49.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.1
173	Less than 2.0% of mass 174	1 (1.3) 1
174	50.0 - 100.0% of mass 95	77.3
175	5.0 - 9.0% of mass 174	6 (7.7) 1
176	95.0 - 101.0% of mass 174	73.9 (95.7) 1
177	5.0 - 9.0% of mass 176	4.8 (6.5) 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	VX042963.D	08/09/2024	00:35
VX0808WBL02	VX0808WBL02	VX042964.D	08/09/2024	01:48
VX0808WBS02	VX0808WBS02	VX042965.D	08/09/2024	02:34
TB-01-080224	P3457-03	VX042968.D	08/09/2024	03:43

Raw Data: **VX042985.D**

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.: P3457 SAS No.: P3457 SDG NO.: P3457

Lab File ID: VX042985.D BFB Injection Date: 08/09/2024

Instrument ID: MSVOA_X BFB Injection Time: 10:32

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.1
75	30.0 - 60.0% of mass 95	53.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.1
173	Less than 2.0% of mass 174	1.1 (1.5) 1
174	50.0 - 100.0% of mass 95	76.8
175	5.0 - 9.0% of mass 174	5.9 (7.7) 1
176	95.0 - 101.0% of mass 174	74.6 (97.2) 1
177	5.0 - 9.0% of mass 176	5.2 (6.9) 2

1-Value is % mass 174 2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX042986.D	08/09/2024	11:01
VX0809WBL01	VX0809WBL01	VX042988.D	08/09/2024	11:52
VX0809WBS01	VX0809WBS01	VX042989.D	08/09/2024	12:15
924-K1-WS-080224	P3457-01	VX043002.D	08/09/2024	17:48

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3457 SAS No.: P3457 SDG NO.: P3457

Lab File ID: VN083197.D Date Analyzed: 08/10/2024

Instrument ID: MSVOA_N Time Analyzed: 10:46

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	189834	8.22	320853	9.10	279656	11.87
UPPER LIMIT	379668	8.724	641706	9.6	559312	12.365
LOWER LIMIT	94917	7.724	160427	8.6	139828	11.365
EPA SAMPLE NO.						
932-K1-WS-080224	139998	8.23	267123	9.10	272147	11.87
VN0810WBL02	124598	8.23	239076	9.10	236621	11.87
VN0810WBS01	169456	8.22	295589	9.10	256697	11.87
VN0810WBSD01	160373	8.22	278670	9.10	245098	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.

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3457 SAS No.: P3457 SDG NO.: P3457

Lab File ID: VN083197.D Date Analyzed: 08/10/2024

Instrument ID: MSVOA_N Time Analyzed: 10:46

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	135305	13.794				
UPPER LIMIT	270610	14.294				
LOWER LIMIT	67652.5	13.294				
EPA SAMPLE NO.						
932-K1-WS-080224	121838	13.79				
VN0810WBL02	101434	13.79				
VN0810WBS01	116986	13.79				
VN0810WBSD01	113742	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.

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3457 SAS No.: P3457 SDG NO.: P3457

Lab File ID: VX042963.D Date Analyzed: 08/09/2024

Instrument ID: MSVOA_X Time Analyzed: 00:35

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	230896	5.55	388392	6.76	344983	10.06
UPPER LIMIT	461792	6.05	776784	7.263	689966	10.555
LOWER LIMIT	115448	5.05	194196	6.263	172492	9.555
EPA SAMPLE NO.						
TB-01-080224	158206	5.55	312445	6.76	293579	10.06
VX0808WBL02	150400	5.55	282725	6.76	268240	10.06
VX0808WBS02	216431	5.55	372967	6.76	328816	10.06

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.

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3457 SAS No.: P3457 SDG NO.: P3457

Lab File ID: VX042963.D Date Analyzed: 08/09/2024

Instrument ID: MSVOA_X Time Analyzed: 00:35

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	171900	12.018				
UPPER LIMIT	343800	12.518				
LOWER LIMIT	85950	11.518				
EPA SAMPLE NO.						
TB-01-080224	121629	12.02				
VX0808WBL02	109749	12.02				
VX0808WBS02	153912	12.02				

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.

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3457 SAS No.: P3457 SDG NO.: P3457

Lab File ID: VX042986.D Date Analyzed: 08/09/2024

Instrument ID: MSVOA_X Time Analyzed: 11:01

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	230041	5.55	373855	6.76	344403	10.06
UPPER LIMIT	460082	6.05	747710	7.257	688806	10.555
LOWER LIMIT	115021	5.05	186928	6.257	172202	9.555
EPA SAMPLE NO.						
924-K1-WS-080224	148730	5.55	240279	6.76	218815	10.06
VX0809WBL01	186614	5.55	300238	6.76	269204	10.06
VX0809WBS01	232797	5.55	392597	6.76	347845	10.06

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.

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3457 SAS No.: P3457 SDG NO.: P3457

Lab File ID: VX042986.D Date Analyzed: 08/09/2024

Instrument ID: MSVOA_X Time Analyzed: 11:01

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	176162	12.024				
UPPER LIMIT	352324	12.524				
LOWER LIMIT	88081	11.524				
EPA SAMPLE NO.						
924-K1-WS-080224	96376	12.02				
VX0809WBL01	119442	12.02				
VX0809WBS01	163980	12.02				

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.

Alliance
TECHNICAL GROUP

SAMPLE DATA

Raw Data: **VX043002.D**

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

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-WS-080224	SDG No.:	P3457
Lab Sample ID:	P3457-01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043002.D	1		08/09/24 17:48	VX080924

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	4.90	J	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	0.34	J	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

Raw Data: **VX043002.D**

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

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-WS-080224	SDG No.:	P3457
Lab Sample ID:	P3457-01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043002.D	1		08/09/24 17:48	VX080924

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	52.3		70 (74) - 130 (125)	105%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	53.4		70 (86) - 130 (113)	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.9		70 (77) - 130 (121)	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	149000	5.55			
540-36-3	1,4-Difluorobenzene	240000	6.763			
3114-55-4	Chlorobenzene-d5	219000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	96400	12.024			

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_X\Data\VX080924\
Data File : VX043002.D
Acq On : 09 Aug 2024 17:48
Operator : JC/MD
Sample : P3457-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
924-K1-WS-080224

Quant Time: Aug 09 23:28:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 2024
Response via : Initial Calibration

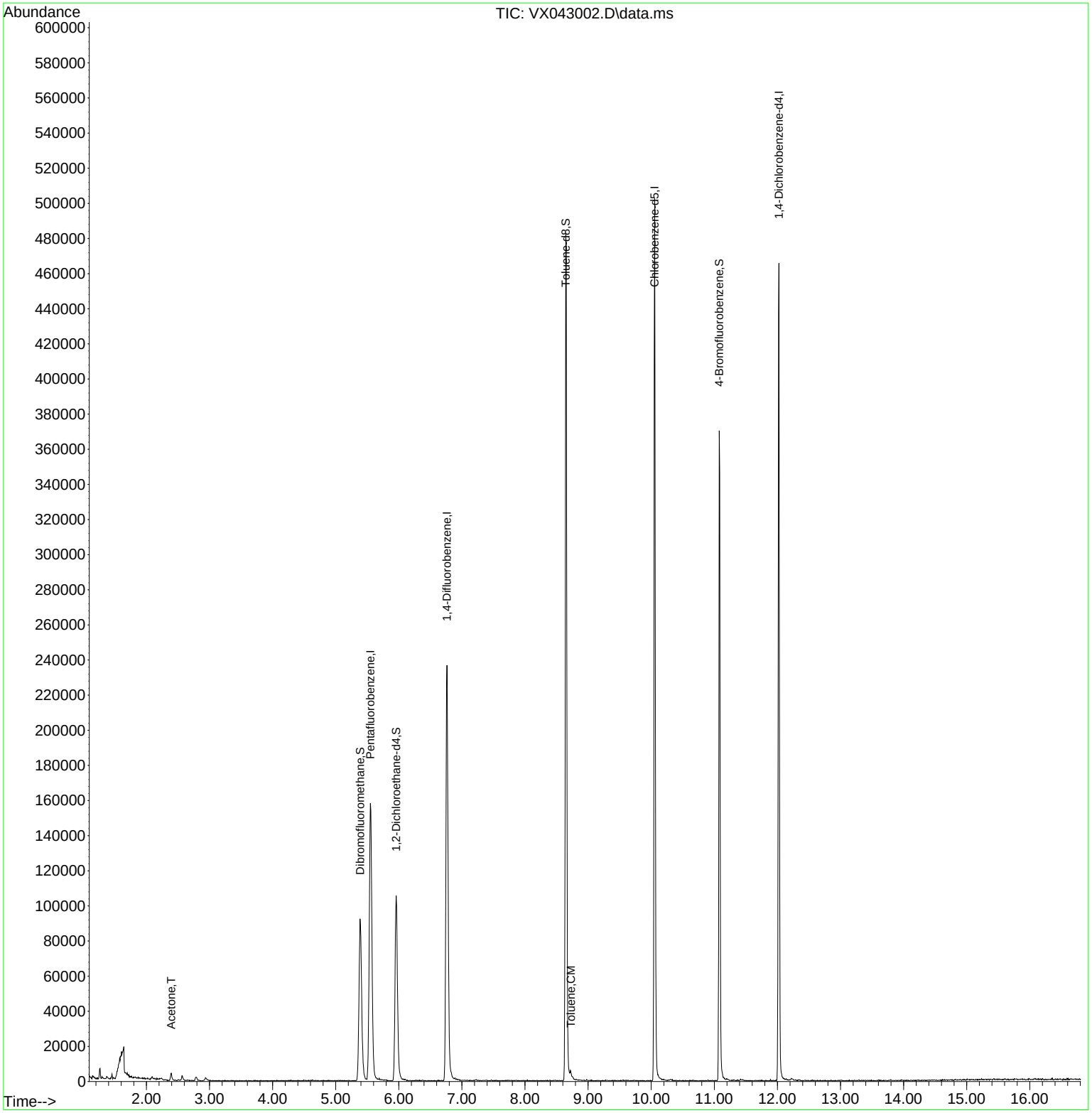
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	148730	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	6.763	114	240279	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	218815	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	96376	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	106806	52.311	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 104.620%			
35) Dibromofluoromethane	5.385	113	79856	50.829	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.660%			
50) Toluene-d8	8.647	98	298083	53.446	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 106.900%			
62) 4-Bromofluorobenzene	11.079	95	100010	49.901	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 99.800%			
Target Compounds						Qvalue
16) Acetone	2.392	43	4340	4.901	ug/l #	76
52) Toluene	8.726	92	1342	0.335	ug/l #	74

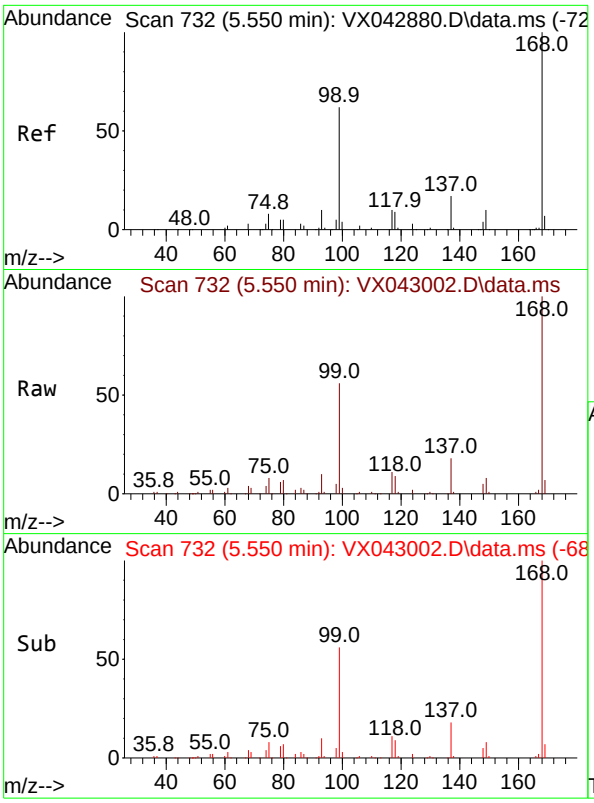
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080924\
Data File : VX043002.D
Acq On : 09 Aug 2024 17:48
Operator : JC/MD
Sample : P3457-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
924-K1-WS-080224

Quant Time: Aug 09 23:28:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 2024
Response via : Initial Calibration



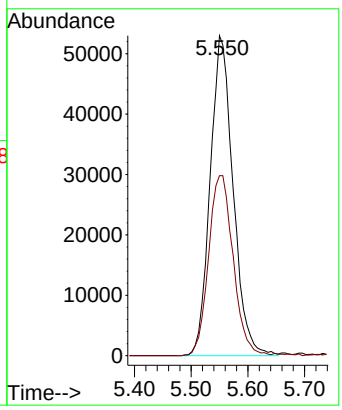


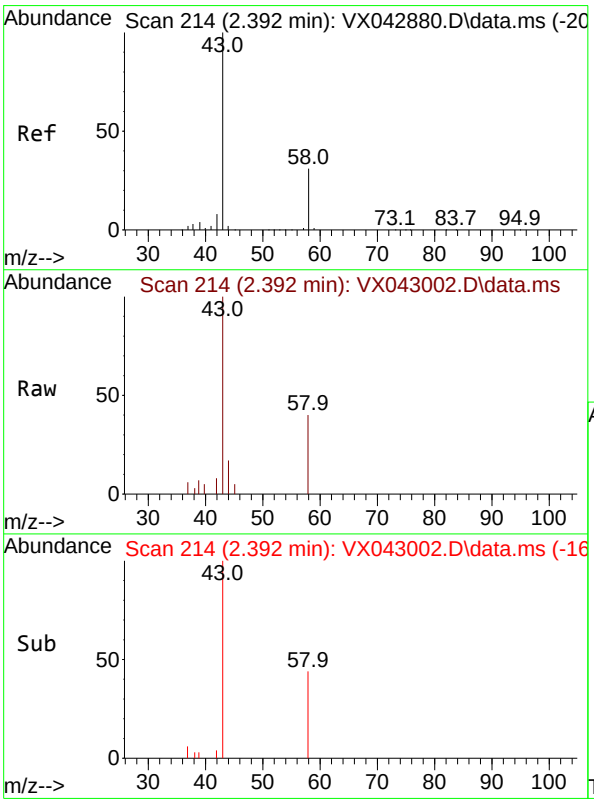
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX043002.D
Acq: 09 Aug 2024 17:48

Instrument :
MSVOA_X
ClientSampleId :
924-K1-WS-080224

Tgt Ion:168 Resp: 148730

Ion	Ratio	Lower	Upper
168	100		
99	56.2	56.6	85.0#

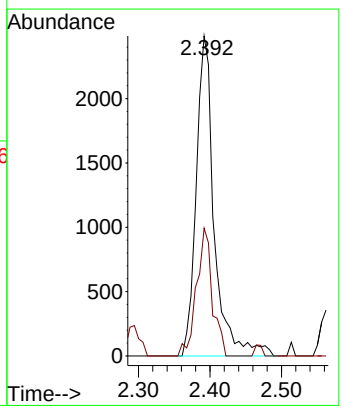


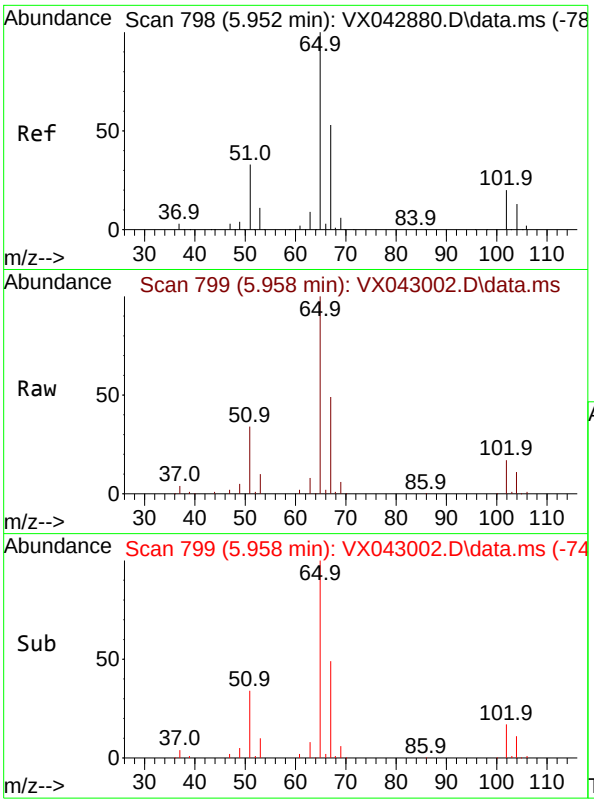


#16
Acetone
Concen: 4.901 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX043002.D
Acq: 09 Aug 2024 17:48

Tgt Ion: 43 Resp: 4340

Ion	Ratio	Lower	Upper
43	100		
58	39.9	21.9	32.9#



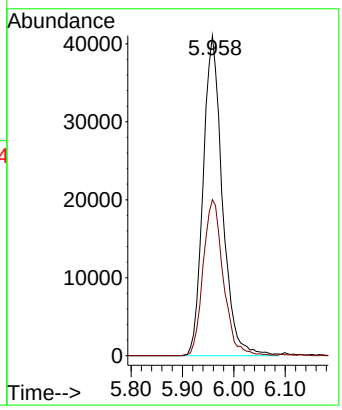


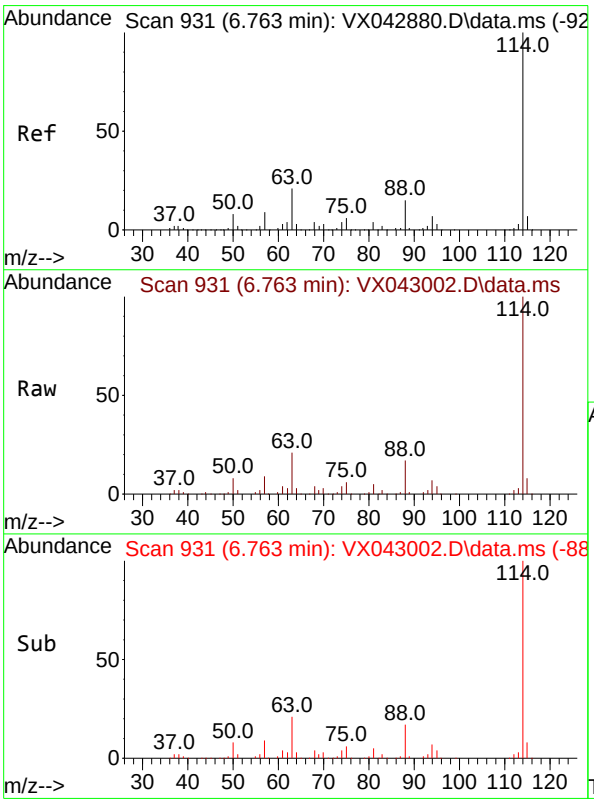
#33
1,2-Dichloroethane-d4
Concen: 52.311 ug/l
RT: 5.958 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX043002.D
Acq: 09 Aug 2024 17:48

Instrument :
MSVOA_X
ClientSampleId :
924-K1-WS-080224

Tgt Ion: 65 Resp: 106806

Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	100.2

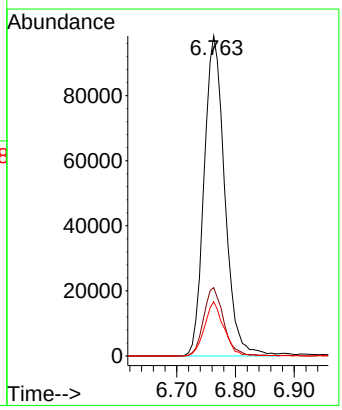


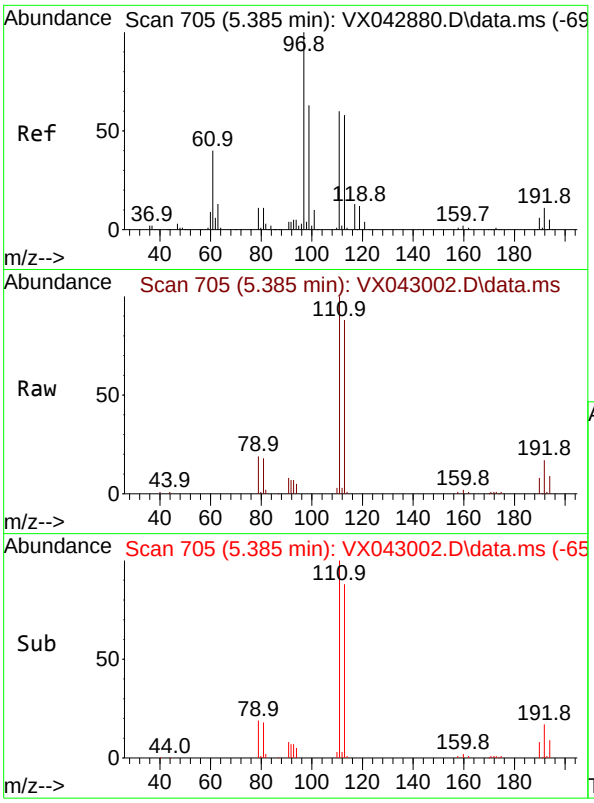


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. -0.000 min
Lab File: VX043002.D
Acq: 09 Aug 2024 17:48

Tgt Ion:114 Resp: 240279

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	45.0
88	16.9	0.0	36.6



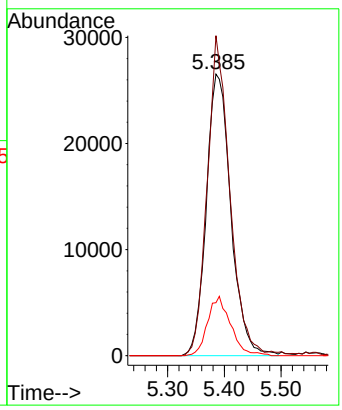


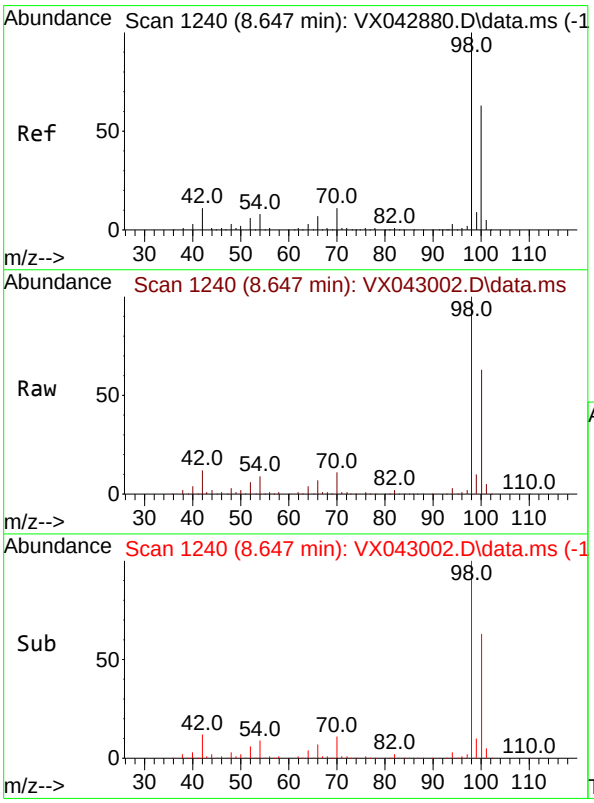
#35
Dibromofluoromethane
Concen: 50.829 ug/l
RT: 5.385 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX043002.D
Acq: 09 Aug 2024 17:48

Instrument :
MSVOA_X
ClientSampleId :
924-K1-WS-080224

Tgt Ion:113 Resp: 79856

Ion	Ratio	Lower	Upper
113	100		
111	104.3	82.9	124.3
192	19.8	13.3	19.9

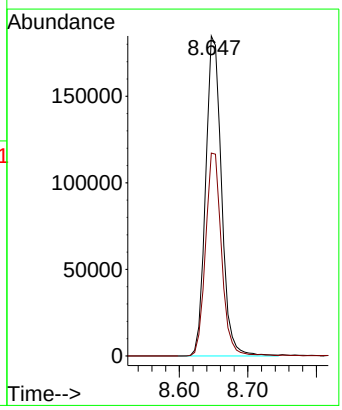


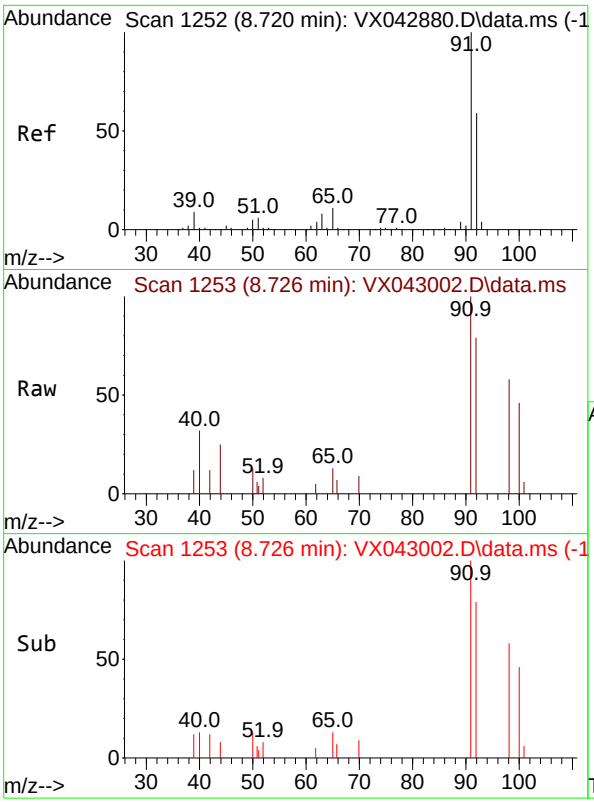


#50
Toluene-d8
Concen: 53.446 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX043002.D
Acq: 09 Aug 2024 17:48

Tgt Ion: 98 Resp: 298083

Ion	Ratio	Lower	Upper
98	100		
100	64.0	53.1	79.7



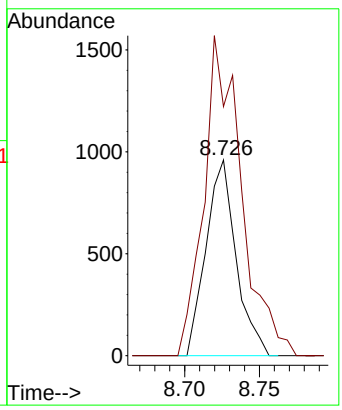


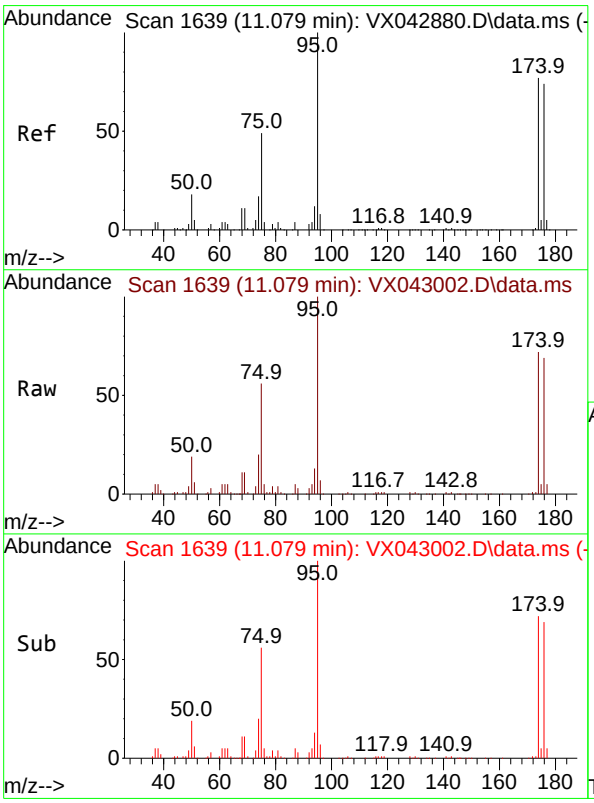
#52
Toluene
Concen: 0.335 ug/l
RT: 8.726 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX043002.D
Acq: 09 Aug 2024 17:48

Instrument :
MSVOA_X
ClientSampleId :
924-K1-WS-080224

Tgt Ion: 92 Resp: 1342

Ion	Ratio	Lower	Upper
92	100		
91	203.2	134.2	201.2#

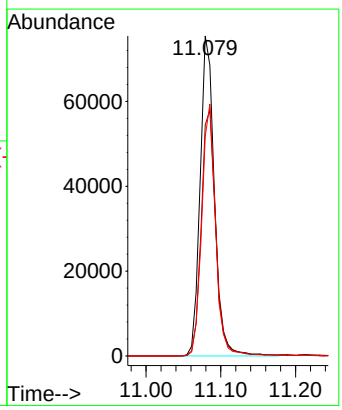


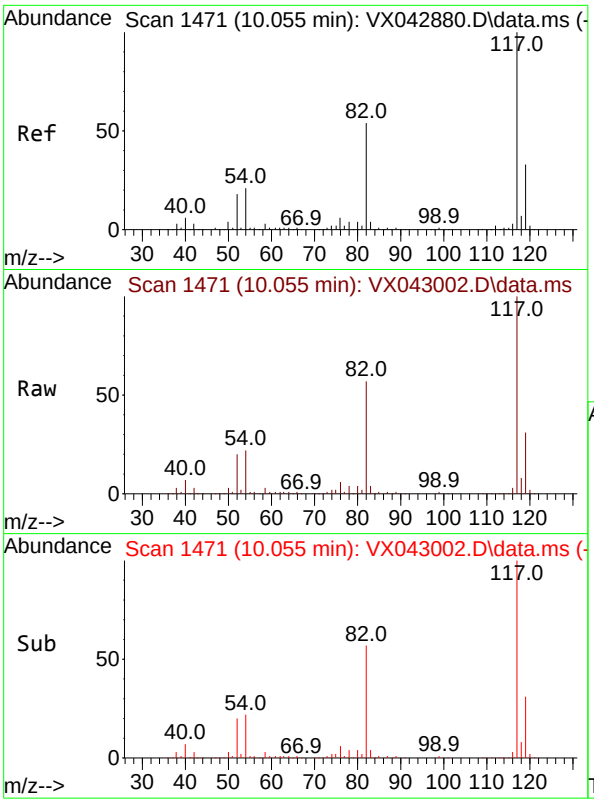


#62
4-Bromofluorobenzene
Concen: 49.901 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX043002.D
Acq: 09 Aug 2024 17:48

Tgt Ion: 95 Resp: 100010

Ion	Ratio	Lower	Upper
95	100		
174	78.4	0.0	135.6
176	76.5	0.0	131.0



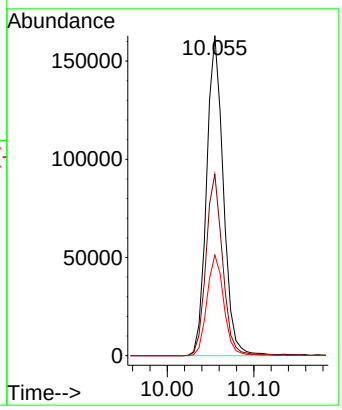


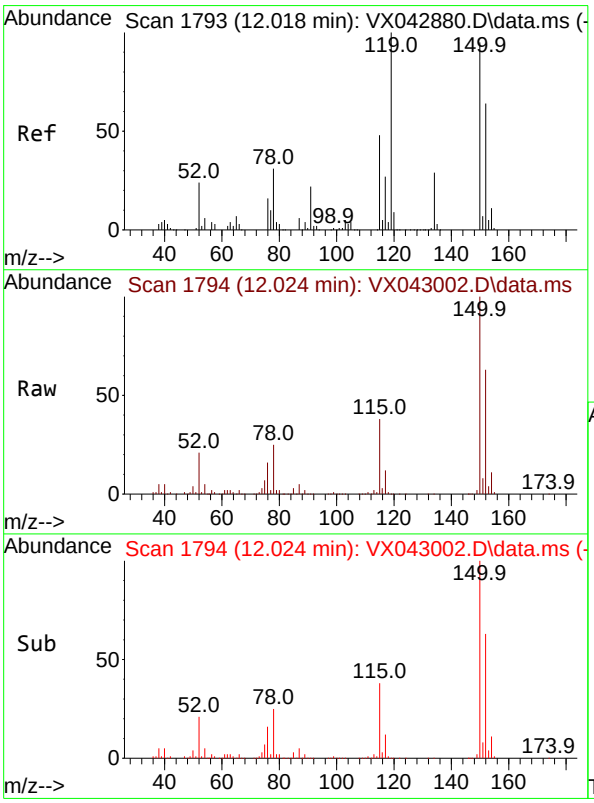
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX043002.D
Acq: 09 Aug 2024 17:48

Instrument :
MSVOA_X
ClientSampleId :
924-K1-WS-080224

Tgt Ion:117 Resp: 218815

Ion	Ratio	Lower	Upper
117	100		
82	56.7	46.2	69.4
119	31.5	25.5	38.3

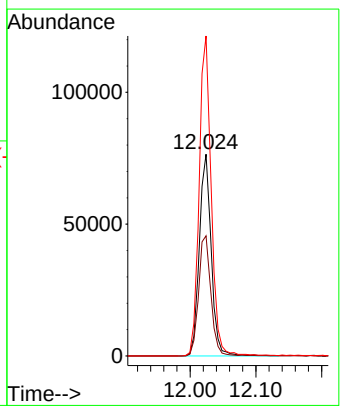




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX043002.D
Acq: 09 Aug 2024 17:48

Tgt Ion:152 Resp: 96376

Ion	Ratio	Lower	Upper
152	100		
115	61.6	43.3	129.9
150	159.6	0.0	345.0



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

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:	932-K1-WS-080224	SDG No.:	P3457
Lab Sample ID:	P3457-02	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
VN083218.D	1		08/10/24 19:23	VN081024

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	2.90	J	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	0.59	J	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

Raw Data: **VN083218.D**

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

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:	932-K1-WS-080224	SDG No.:	P3457
Lab Sample ID:	P3457-02	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
VN083218.D	1		08/10/24 19:23	VN081024

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	59.0		70 (74) - 130 (125)	118%	SPK: 50
1868-53-7	Dibromofluoromethane	56.1		70 (75) - 130 (124)	112%	SPK: 50
2037-26-5	Toluene-d8	56.0		70 (86) - 130 (113)	112%	SPK: 50
460-00-4	4-Bromofluorobenzene	60.8		70 (77) - 130 (121)	122%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	140000	8.23			
540-36-3	1,4-Difluorobenzene	267000	9.1			
3114-55-4	Chlorobenzene-d5	272000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	122000	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

Sample Results: **VN083218.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081024\
Data File : VN083218.D
Acq On : 10 Aug 2024 19:23
Operator : JC\MD
Sample : P3457-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
932-K1-WS-080224

Quant Time: Aug 12 01:57:09 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

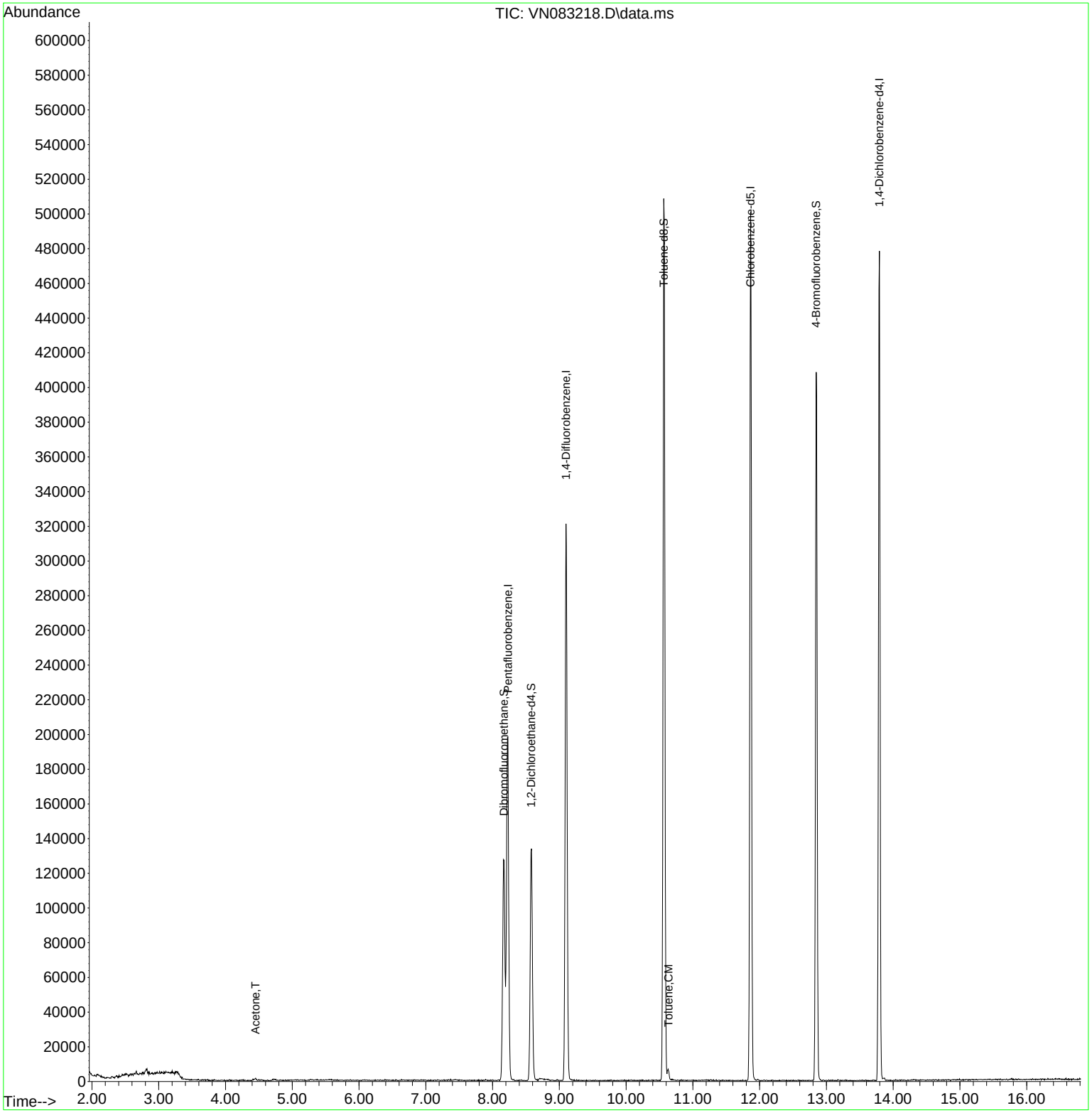
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	139998	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	267123	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	272147	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	121838	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	117513	58.971	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 117.940%			
35) Dibromofluoromethane	8.171	113	93465	56.057	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 112.120%			
50) Toluene-d8	10.565	98	348354	56.010	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 112.020%			
62) 4-Bromofluorobenzene	12.847	95	147407	60.793	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 121.580%			
Target Compounds						Qvalue
16) Acetone	4.447	43	2296	2.945	ug/l	91
52) Toluene	10.635	92	2813	0.593	ug/l	100

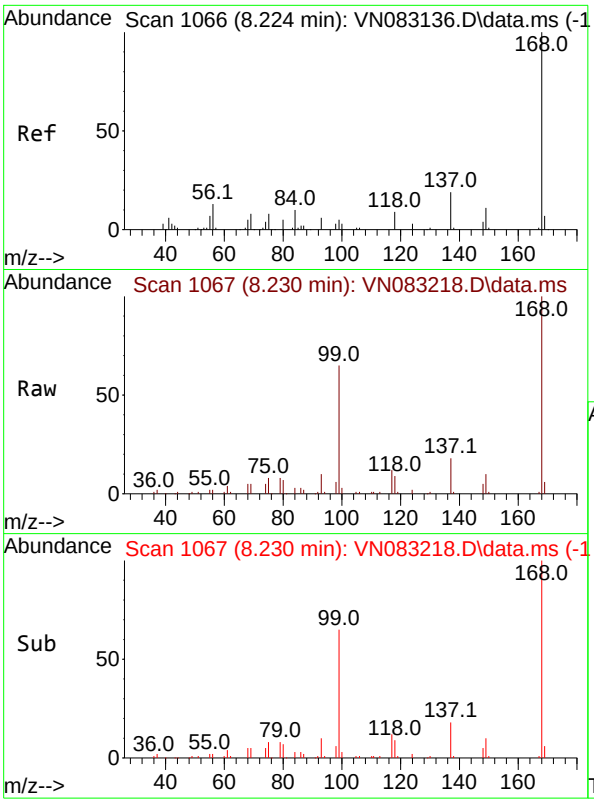
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081024\
Data File : VN083218.D
Acq On : 10 Aug 2024 19:23
Operator : JC\MD
Sample : P3457-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
932-K1-WS-080224

Quant Time: Aug 12 01:57:09 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



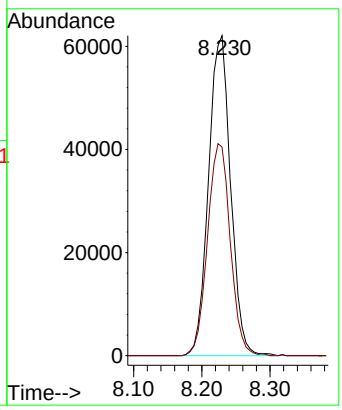


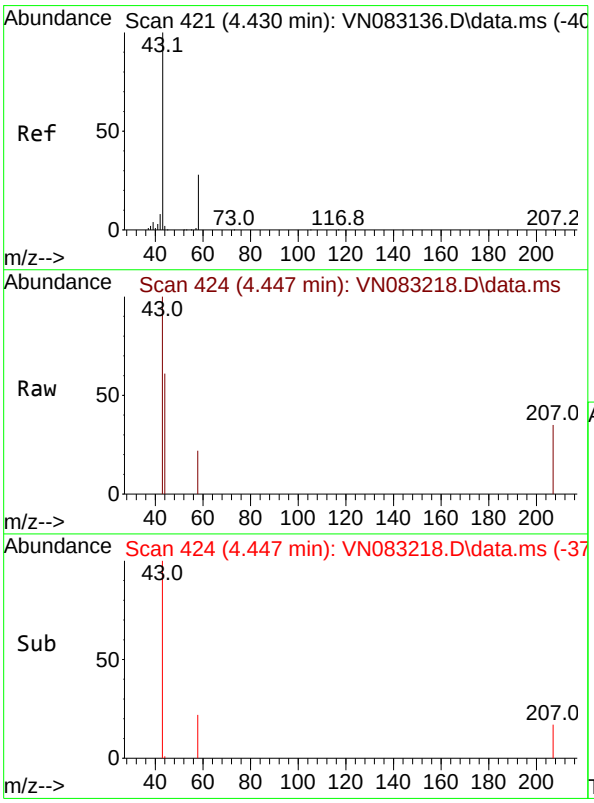
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083218.D
Acq: 10 Aug 2024 19:23

Instrument :
MSVOA_N
ClientSampleId :
932-K1-WS-080224

Tgt Ion:168 Resp: 139998

Ion	Ratio	Lower	Upper
168	100		
99	65.2	48.2	72.4

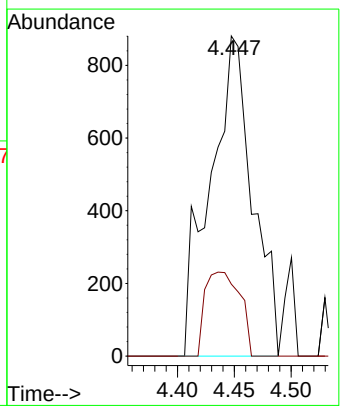


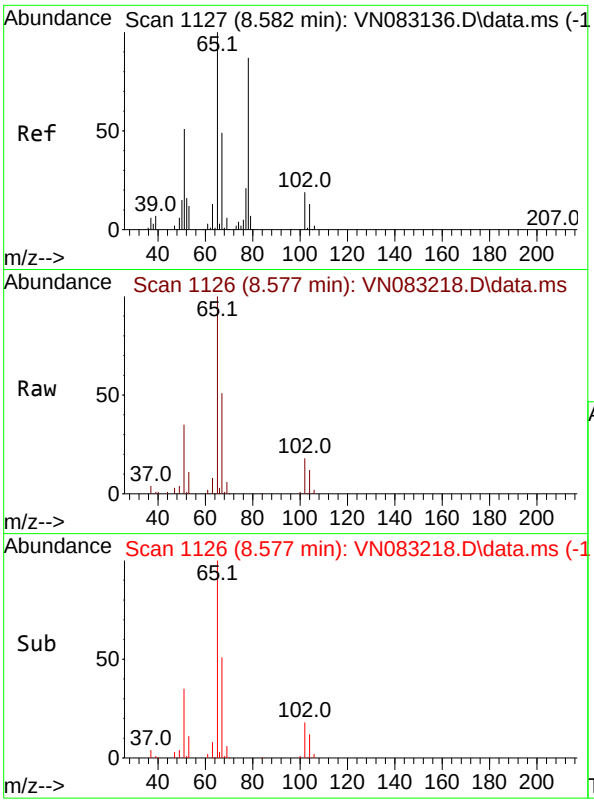


#16
Acetone
Concen: 2.945 ug/l
RT: 4.447 min Scan# 424
Delta R.T. 0.018 min
Lab File: VN083218.D
Acq: 10 Aug 2024 19:23

Tgt Ion: 43 Resp: 2296

Ion	Ratio	Lower	Upper
43	100		
58	22.5	21.8	32.6



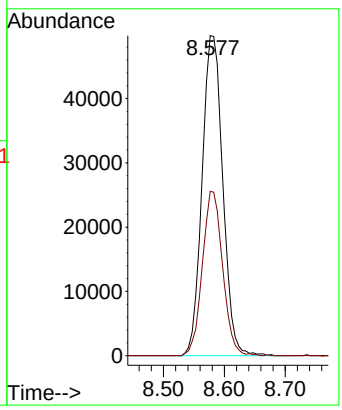


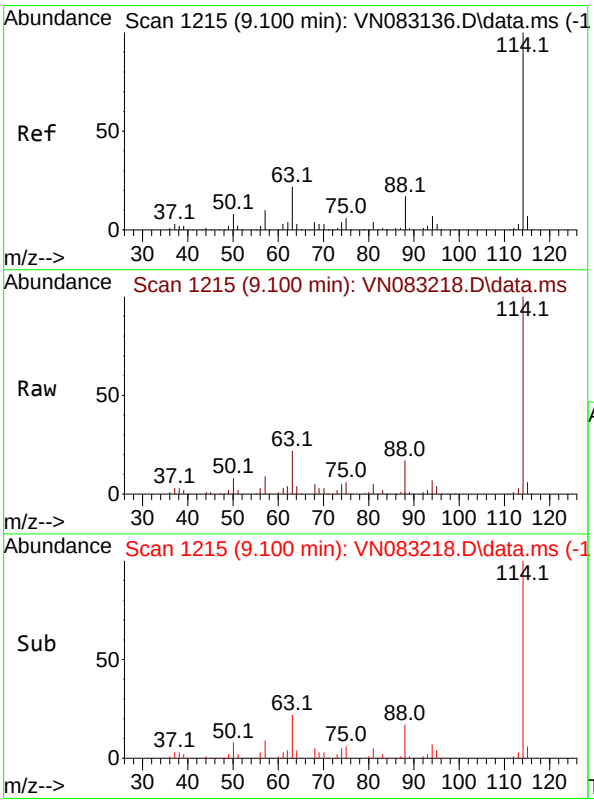
#33
1,2-Dichloroethane-d4
Concen: 58.971 ug/l
RT: 8.577 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN083218.D
Acq: 10 Aug 2024 19:23

Instrument :
MSVOA_N
ClientSampleId :
932-K1-WS-080224

Tgt Ion: 65 Resp: 117513

Ion	Ratio	Lower	Upper
65	100		
67	50.3	0.0	104.4

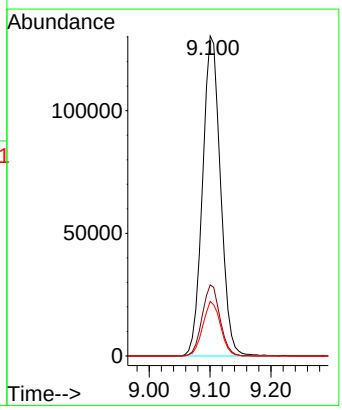


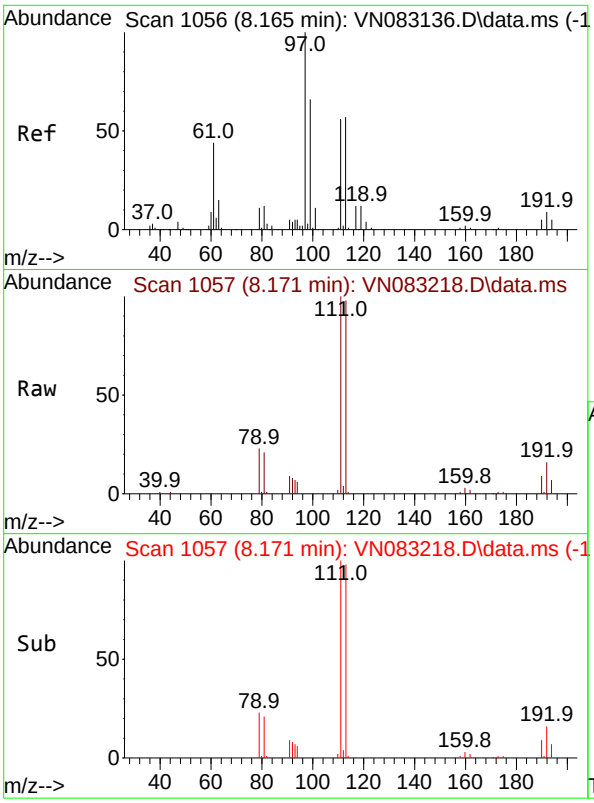


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN083218.D
Acq: 10 Aug 2024 19:23

Tgt Ion:114 Resp: 267123

Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	44.6
88	17.0	0.0	31.4



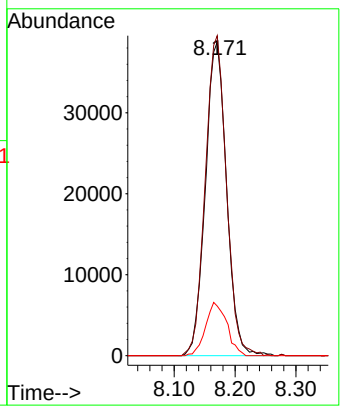


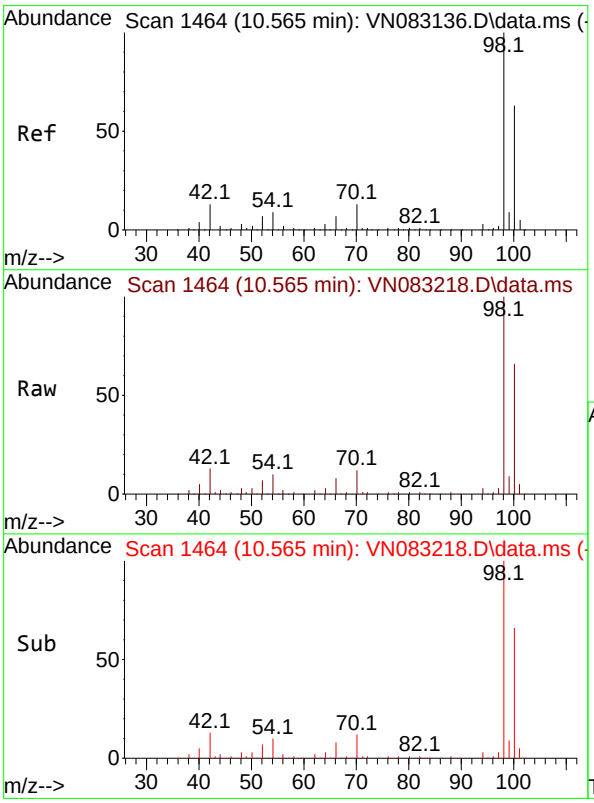
#35
Dibromofluoromethane
Concen: 56.057 ug/l
RT: 8.171 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083218.D
Acq: 10 Aug 2024 19:23

Instrument :
MSVOA_N
ClientSampleId :
932-K1-WS-080224

Tgt Ion:113 Resp: 93465

Ion	Ratio	Lower	Upper
113	100		
111	101.8	82.4	123.6
192	17.1	14.9	22.3

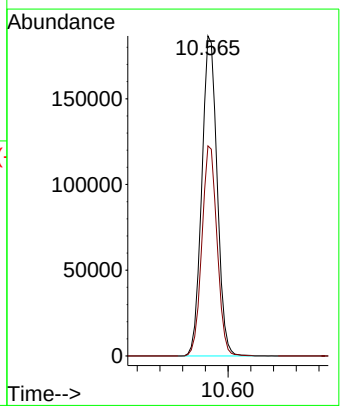


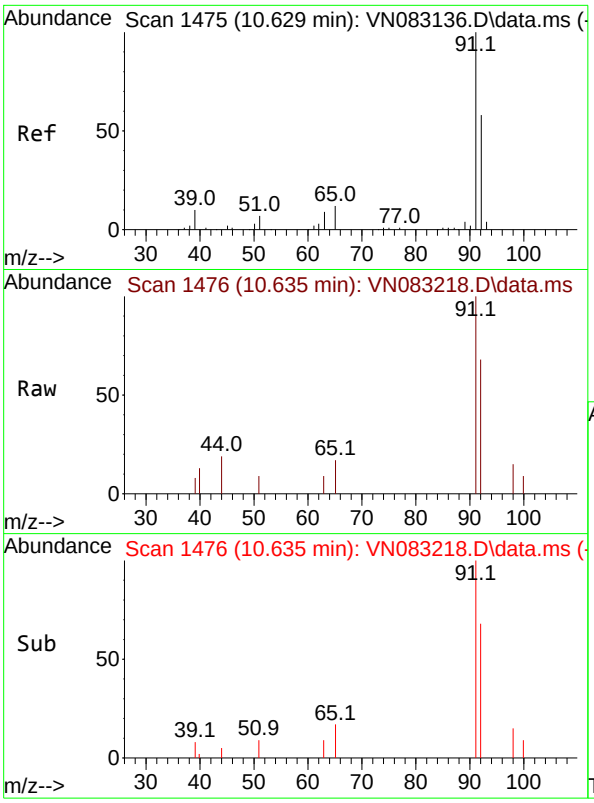


#50
Toluene-d8
Concen: 56.010 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN083218.D
Acq: 10 Aug 2024 19:23

Tgt Ion: 98 Resp: 348354

Ion	Ratio	Lower	Upper
98	100		
100	65.0	51.5	77.3



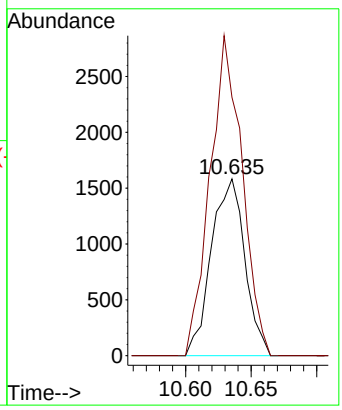


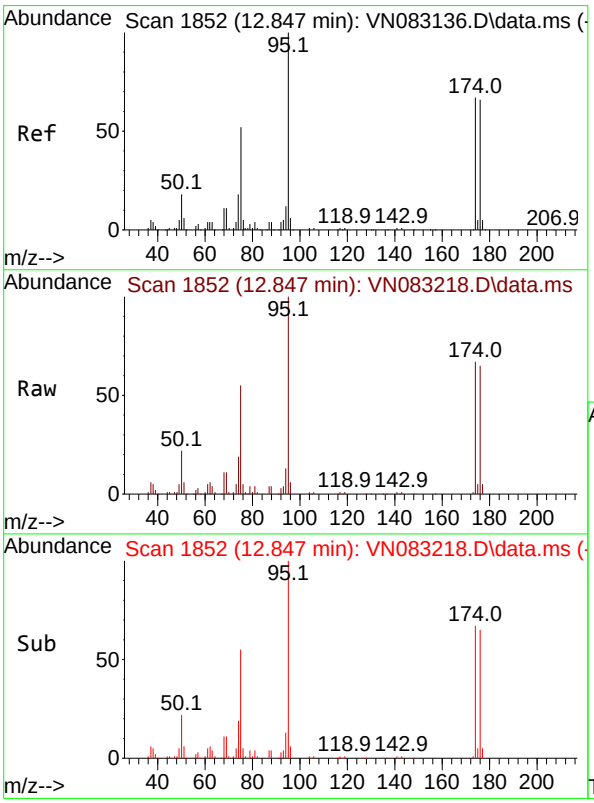
#52
Toluene
Concen: 0.593 ug/l
RT: 10.635 min Scan# 14
Delta R.T. 0.006 min
Lab File: VN083218.D
Acq: 10 Aug 2024 19:23

Instrument :
MSVOA_N
ClientSampleId :
932-K1-WS-080224

Tgt Ion: 92 Resp: 2813

Ion	Ratio	Lower	Upper
92	100		
91	174.0	139.4	209.0

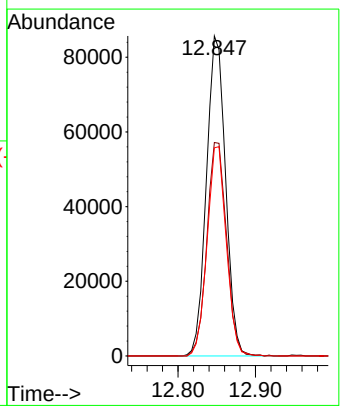


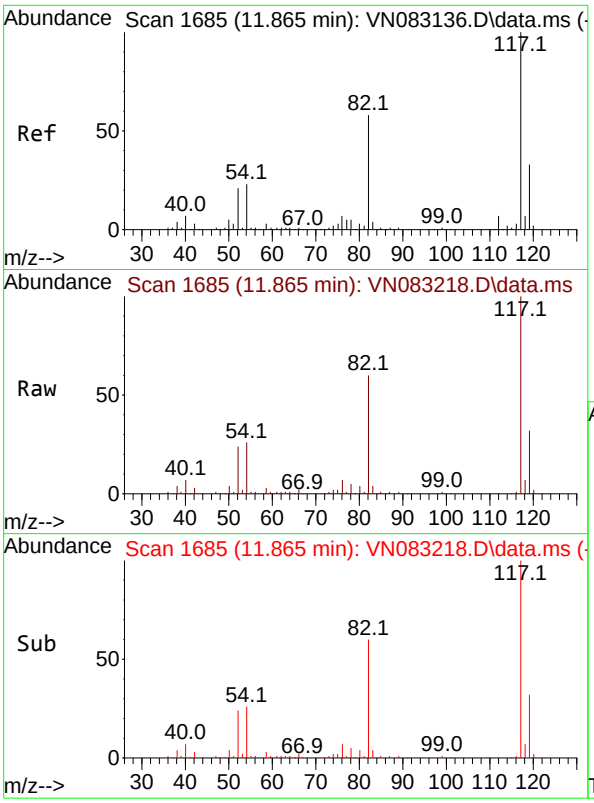


#62
4-Bromofluorobenzene
Concen: 60.793 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083218.D
Acq: 10 Aug 2024 19:23

Tgt Ion: 95 Resp: 147407

Ion	Ratio	Lower	Upper
95	100		
174	68.3	0.0	159.2
176	65.5	0.0	147.6



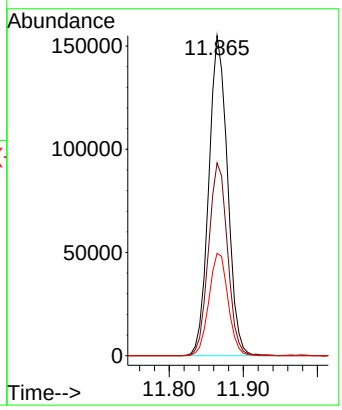


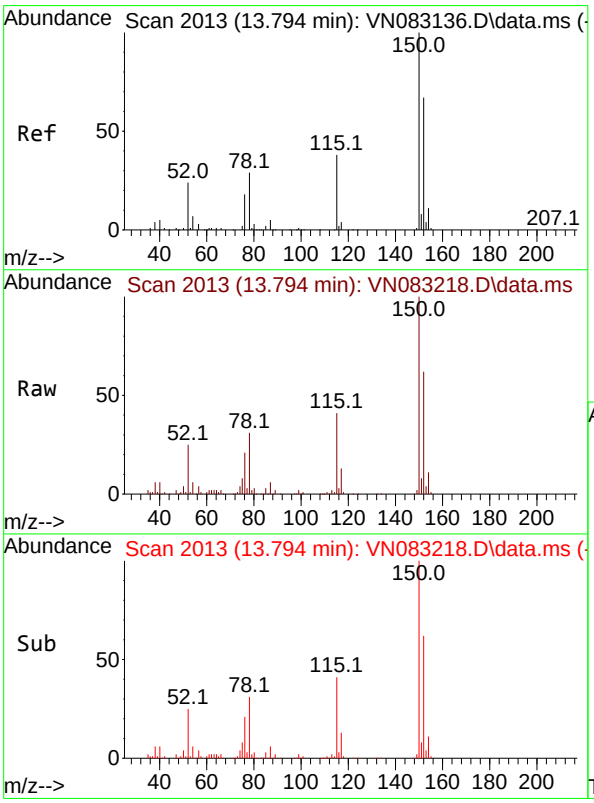
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083218.D
Acq: 10 Aug 2024 19:23

Instrument :
MSVOA_N
ClientSampleId :
932-K1-WS-080224

Tgt Ion:117 Resp: 272147

Ion	Ratio	Lower	Upper
117	100		
82	60.3	47.5	71.3
119	32.0	25.6	38.4

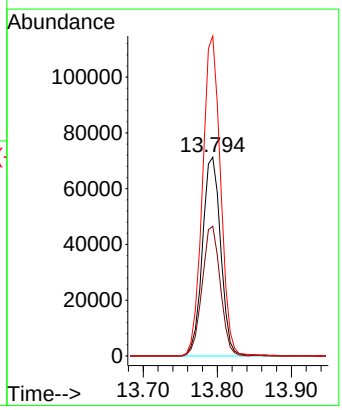




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN083218.D
Acq: 10 Aug 2024 19:23

Tgt Ion:152 Resp: 121838

Ion	Ratio	Lower	Upper
152	100		
115	65.1	30.6	91.6
150	159.3	0.0	348.6



Raw Data: **VX042968.D**

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

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:	TB-01-080224	SDG No.:	P3457
Lab Sample ID:	P3457-03	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX042968.D	1		08/09/24 03:43	VX080824

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

Raw Data: **VX042968.D**

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

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:	TB-01-080224	SDG No.:	P3457
Lab Sample ID:	P3457-03	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX042968.D	1		08/09/24 03:43	VX080824

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	64.5		70 (74) - 130 (125)	129%	SPK: 50
1868-53-7	Dibromofluoromethane	56.8		70 (75) - 130 (124)	114%	SPK: 50
2037-26-5	Toluene-d8	50.5		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.3		70 (77) - 130 (121)	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	158000	5.55			
540-36-3	1,4-Difluorobenzene	312000	6.763			
3114-55-4	Chlorobenzene-d5	294000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	122000	12.024			

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_X\Data\VX080824\
Data File : VX042968.D
Acq On : 09 Aug 2024 03:43
Operator : JC/MD
Sample : P3457-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-01-080224

Quant Time: Aug 09 05:50:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	158206	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	312445	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	293579	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	121629	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	140056	64.487	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 128.980%#			
35) Dibromofluoromethane	5.391	113	115973	56.768	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 113.540%			
50) Toluene-d8	8.647	98	366567	50.544	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 101.080%			
62) 4-Bromofluorobenzene	11.079	95	131035	50.280	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 100.560%			

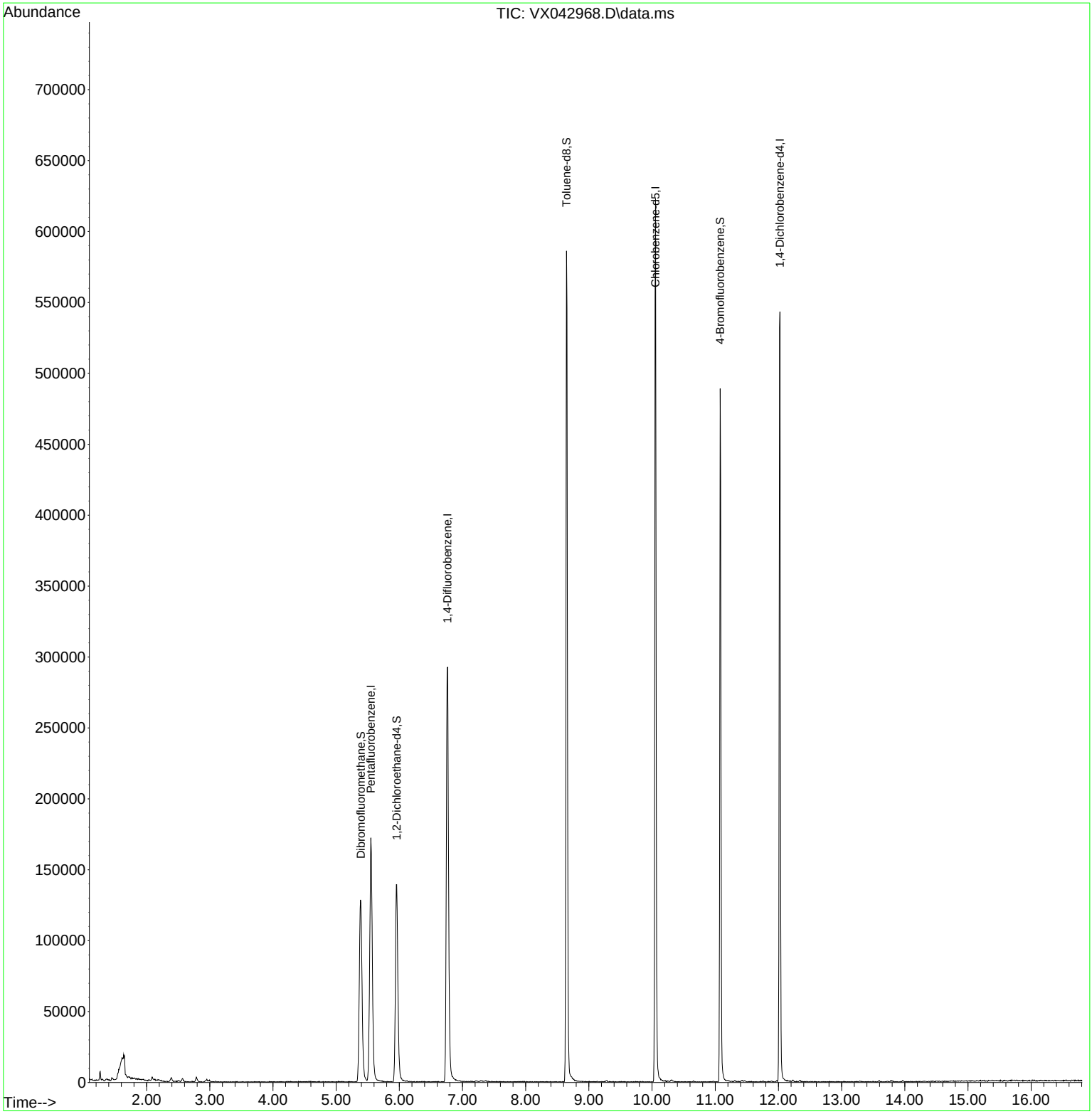
Target Compounds Qvalue

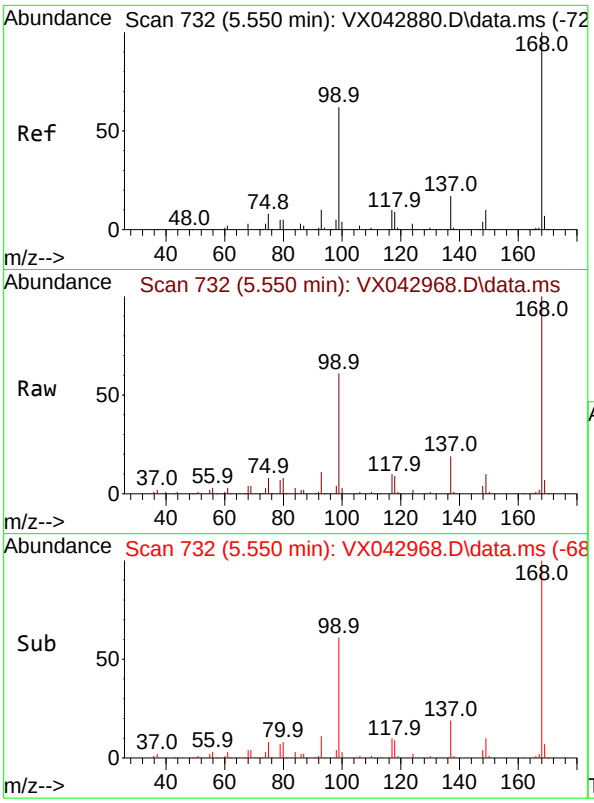
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080824\
Data File : VX042968.D
Acq On : 09 Aug 2024 03:43
Operator : JC/MD
Sample : P3457-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-01-080224

Quant Time: Aug 09 05:50:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 2024
Response via : Initial Calibration



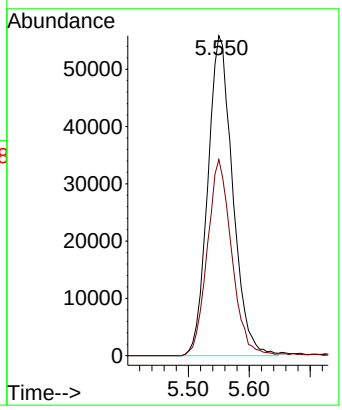


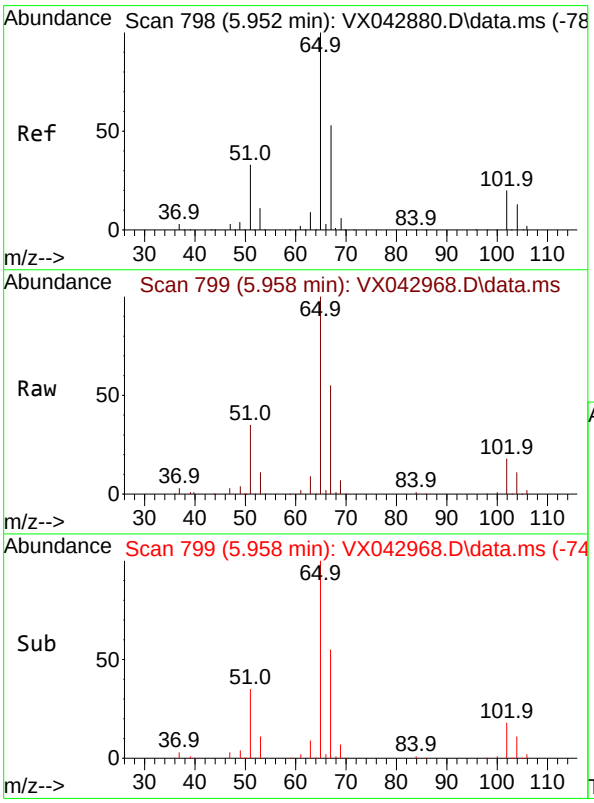
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX042968.D
Acq: 09 Aug 2024 03:43

Instrument :
MSVOA_X
ClientSampleId :
TB-01-080224

Tgt Ion:168 Resp: 158206

Ion	Ratio	Lower	Upper
168	100		
99	61.3	56.6	85.0

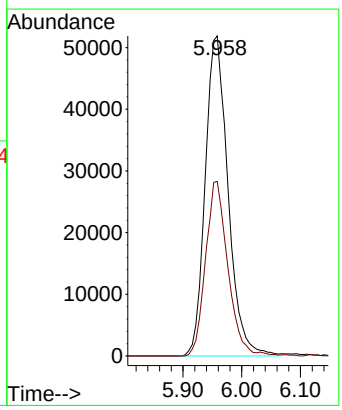


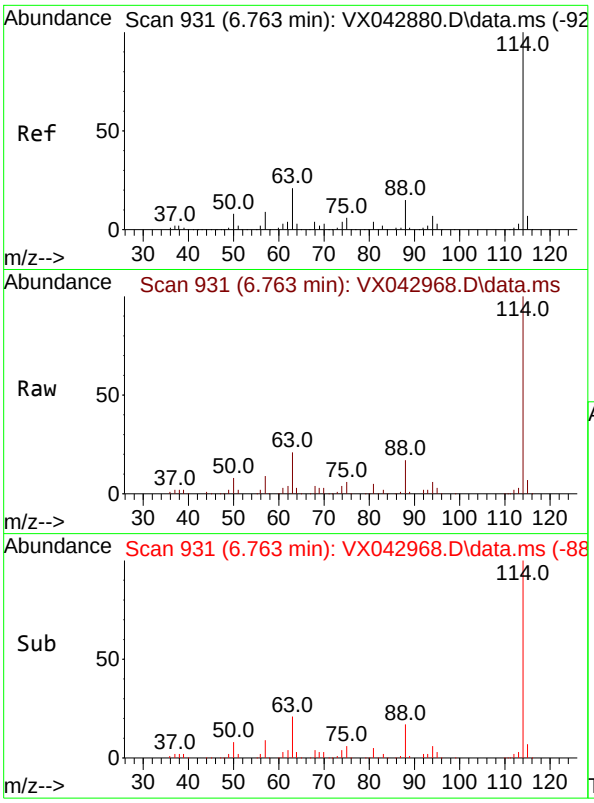


#33
1,2-Dichloroethane-d4
Concen: 64.487 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.006 min
Lab File: VX042968.D
Acq: 09 Aug 2024 03:43

Tgt Ion: 65 Resp: 140056

Ion	Ratio	Lower	Upper
65	100		
67	53.5	0.0	100.2



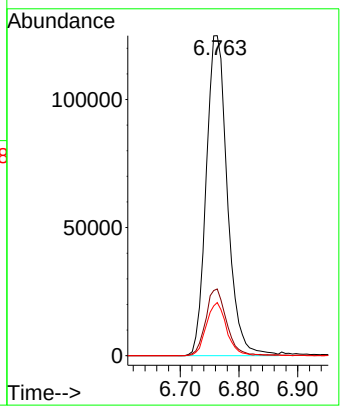


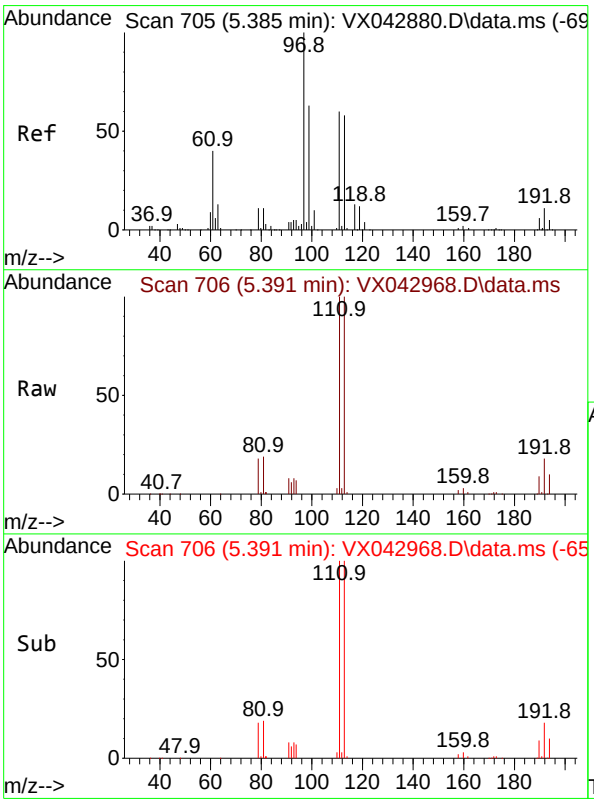
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX042968.D
Acq: 09 Aug 2024 03:43

Instrument :
MSVOA_X
ClientSampleId :
TB-01-080224

Tgt Ion:114 Resp: 312445

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	45.0
88	16.6	0.0	36.6

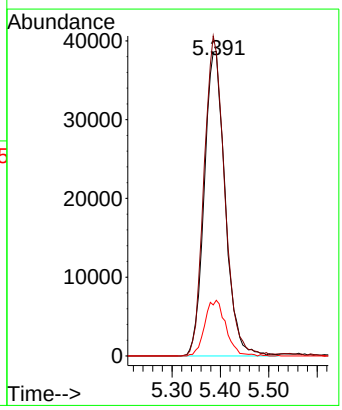


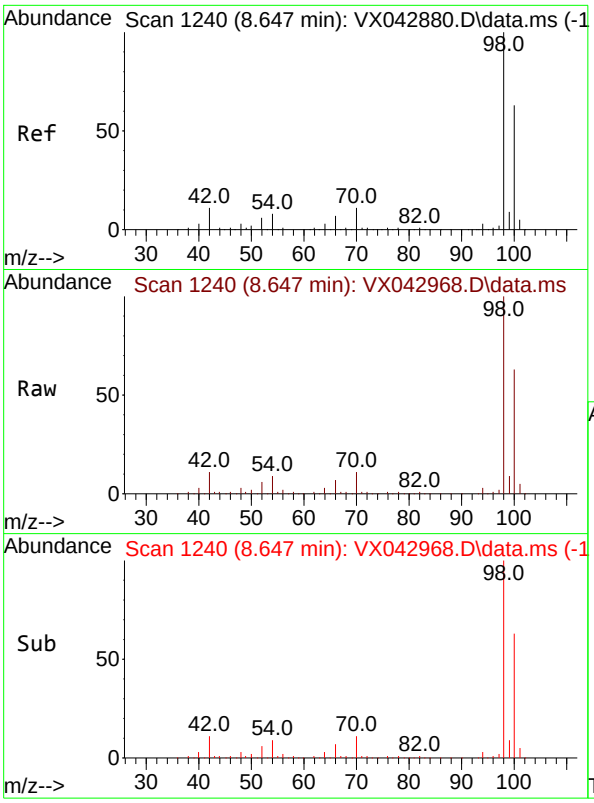


#35
Dibromofluoromethane
Concen: 56.768 ug/l
RT: 5.391 min Scan# 706
Delta R.T. 0.006 min
Lab File: VX042968.D
Acq: 09 Aug 2024 03:43

Tgt Ion:113 Resp: 115973

Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.9	124.3
192	18.4	13.3	19.9



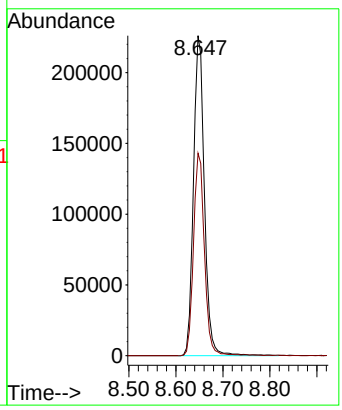


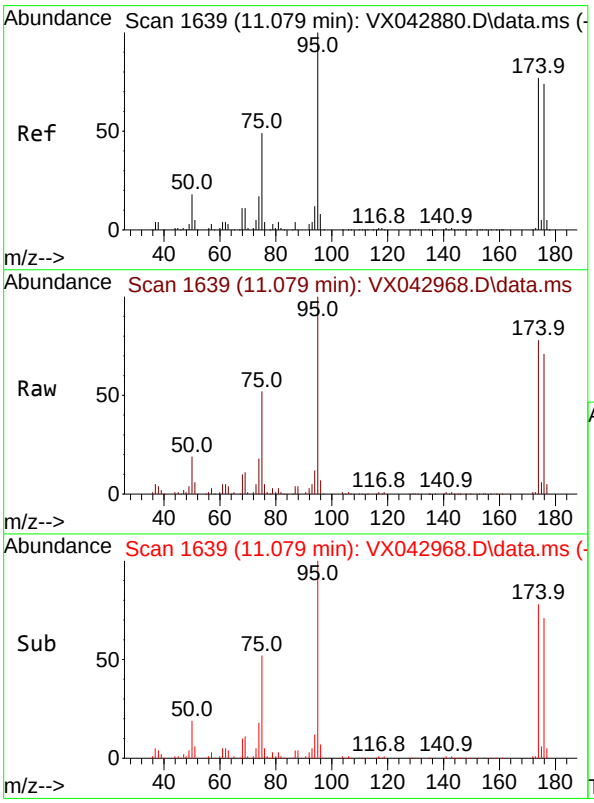
#50
Toluene-d8
Concen: 50.544 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042968.D
Acq: 09 Aug 2024 03:43

Instrument :
MSVOA_X
ClientSampleId :
TB-01-080224

Tgt Ion: 98 Resp: 366567

Ion	Ratio	Lower	Upper
98	100		
100	63.5	53.1	79.7

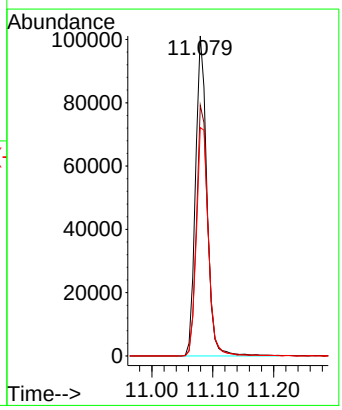


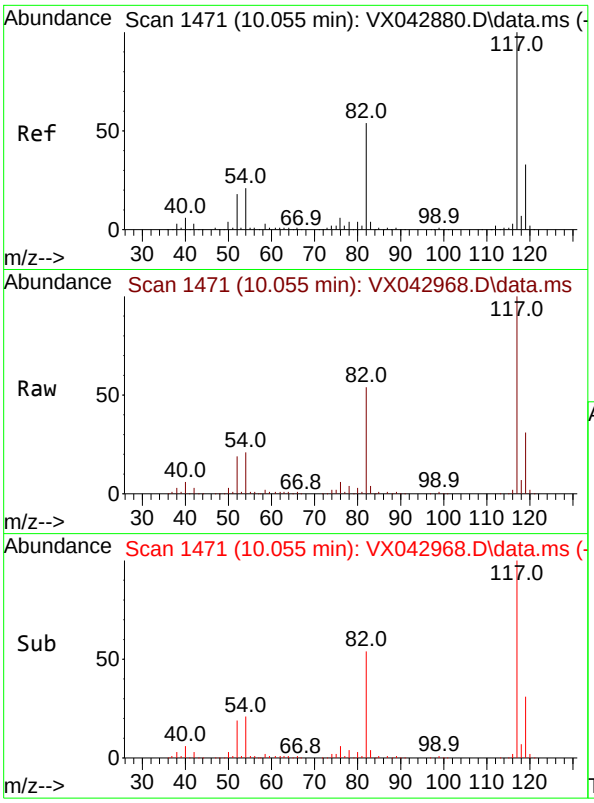


#62
4-Bromofluorobenzene
Concen: 50.280 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX042968.D
Acq: 09 Aug 2024 03:43

Tgt Ion: 95 Resp: 131035

Ion	Ratio	Lower	Upper
95	100		
174	78.9	0.0	135.6
176	75.5	0.0	131.0



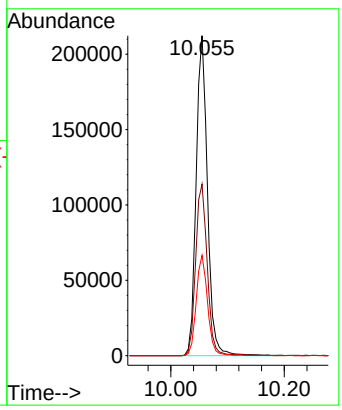


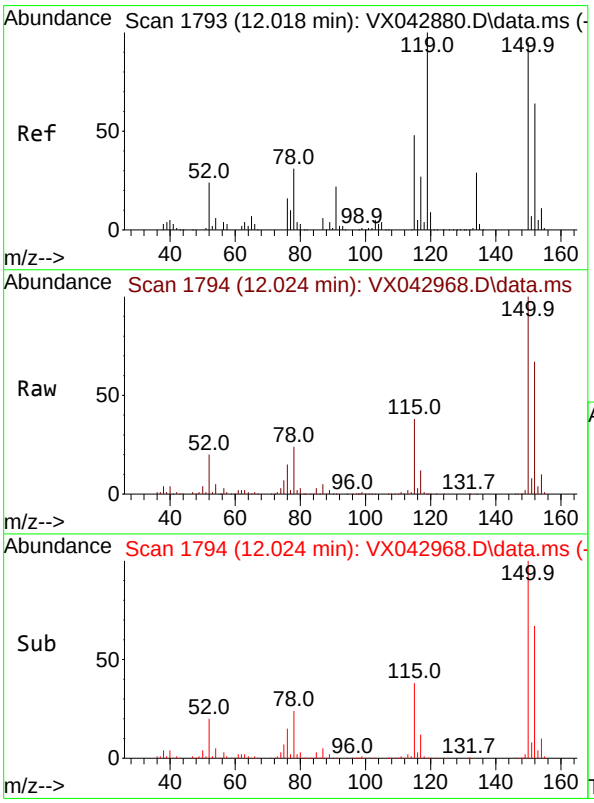
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX042968.D
Acq: 09 Aug 2024 03:43

Instrument :
MSVOA_X
ClientSampleId :
TB-01-080224

Tgt Ion:117 Resp: 293579

Ion	Ratio	Lower	Upper
117	100		
82	53.6	46.2	69.4
119	31.3	25.5	38.3

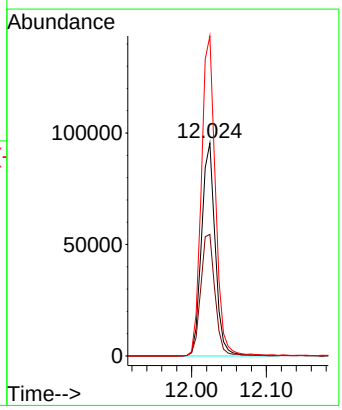




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX042968.D
Acq: 09 Aug 2024 03:43

Tgt Ion:152 Resp: 121629

Ion	Ratio	Lower	Upper
152	100		
115	59.9	43.3	129.9
150	154.7	0.0	345.0



CALIBRATION SUMMARY

Raw Data

Alliance TECHNICAL GROUP

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3457 SAS No.: P3457 SDG No.: P3457

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	$\overline{RRF}$	% 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.

Raw Data

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3457 SAS No.: P3457 SDG No.: P3457

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	$\overline{RRF}$	% 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.

Response Factor Report MSVOA_N_NEW

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

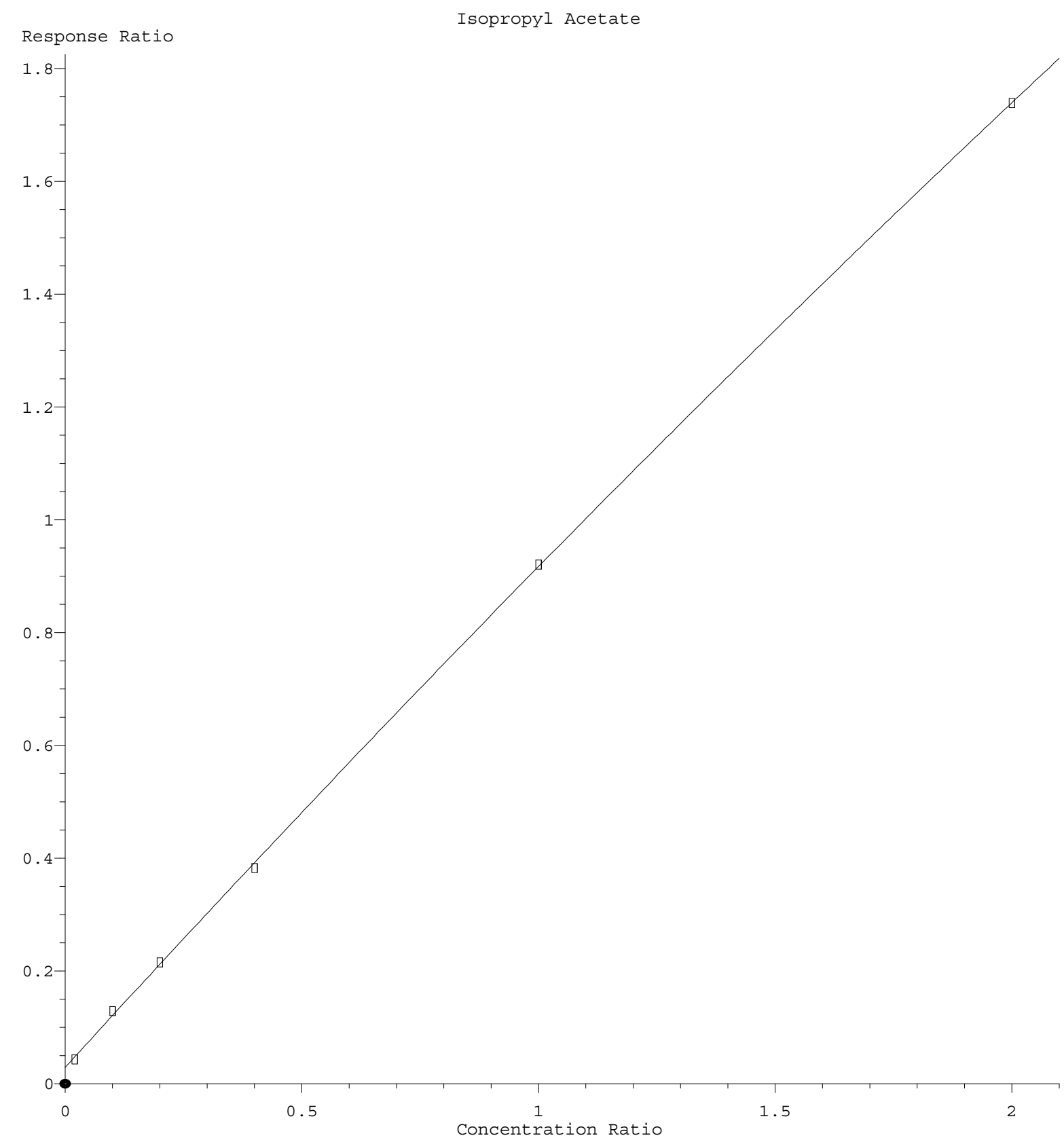
Calibration Files
1 =VN083140.D 5 =VN083139.D 10 =VN083138.D 20 =VN083137.D 50 =VN083136.D 100 =VN083135.D

		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



R = -3.250e-002 A*A + 9.200e-001 A + 2.928e-002
Coef of Det (r^2) = 0.999905 Curve Fit: Quadratic
Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N080724W.M
Calibration Table Last Updated: Thu Aug 08 06:30:41 2024

Quantitation Report (QT Reviewed)

ICAL Form

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

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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

ICAL Form

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

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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	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

ICAL Form

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

ICAL Form

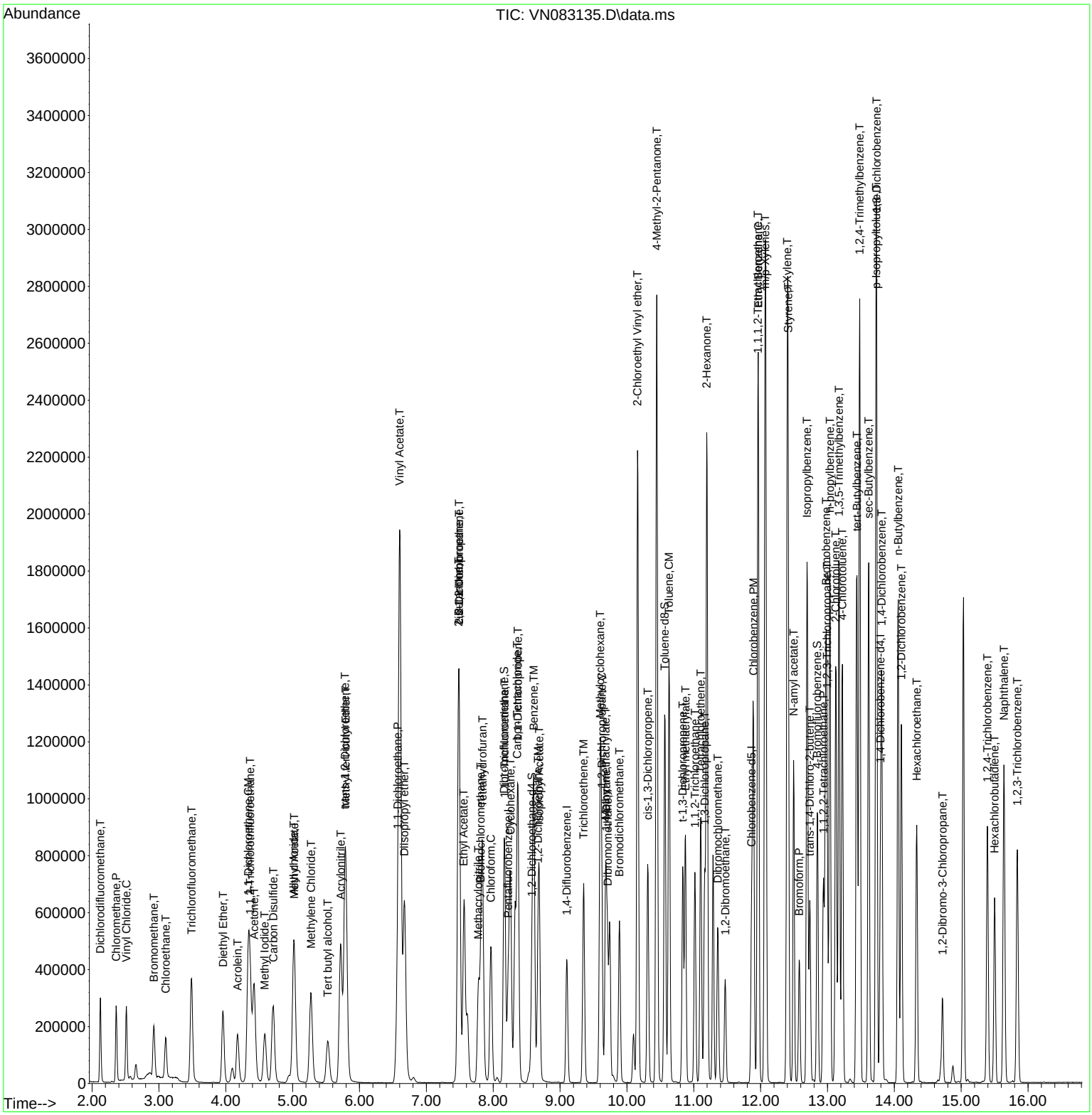
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083135.D
Acq On : 07 Aug 2024 10:33
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

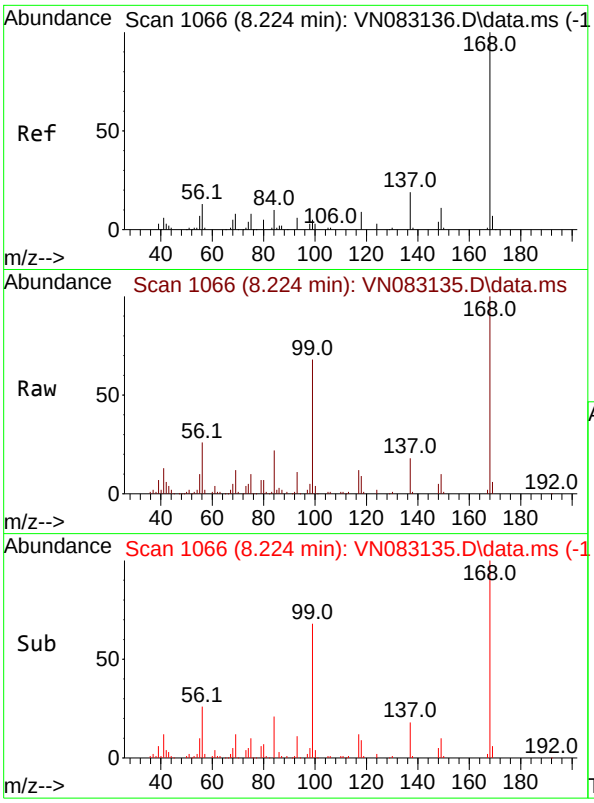
Quant Time: Aug 08 06:14:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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

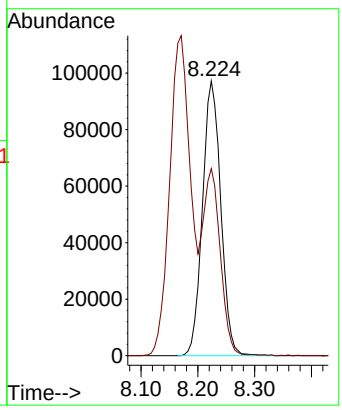




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:168 Resp: 21731

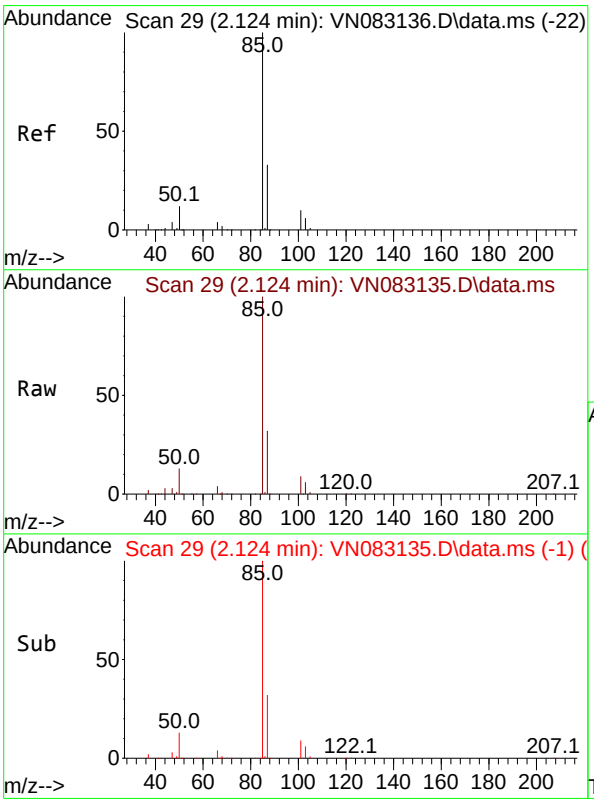
Ion	Ratio	Lower	Upper
168	100		
99	68.1	48.2	72.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

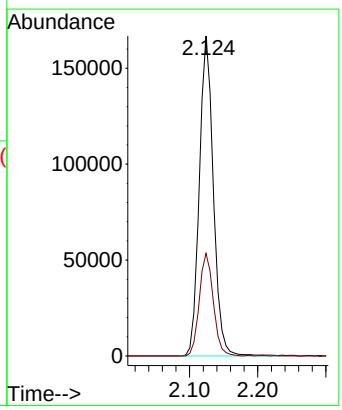
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

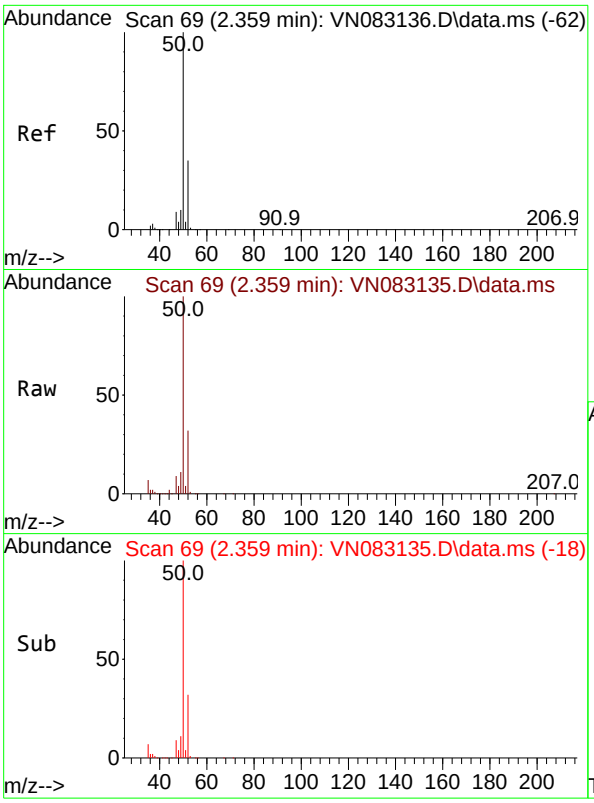


#2
Dichlorodifluoromethane
Concen: 96.624 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 85 Resp: 238119

Ion	Ratio	Lower	Upper
85	100		
87	32.1	15.7	47.0

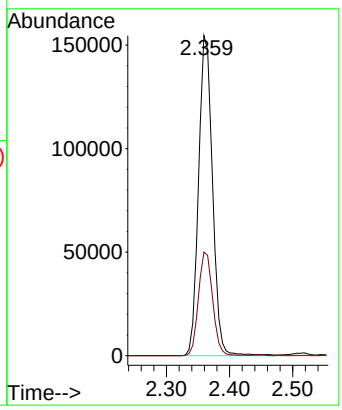




#3
Chloromethane
Concen: 94.185 ug/l
RT: 2.359 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 50 Resp: 23763

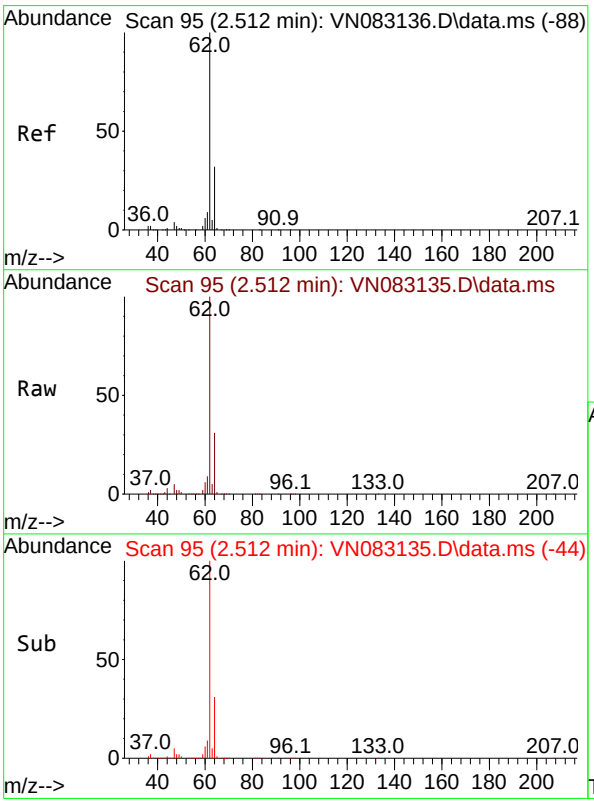
Ion	Ratio	Lower	Upper
50	100		
52	32.4	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

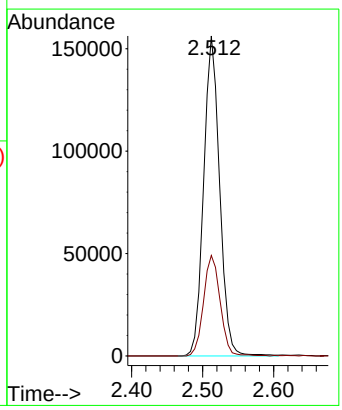
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

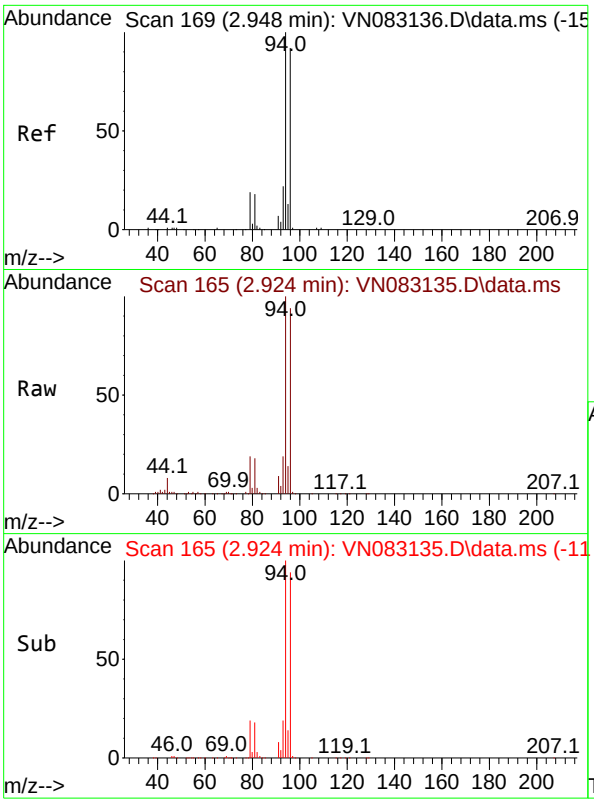


#4
Vinyl Chloride
Concen: 94.904 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 62 Resp: 244329

Ion	Ratio	Lower	Upper
62	100		
64	31.4	25.0	37.6

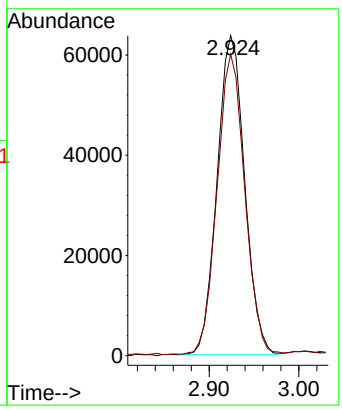




#5
Bromomethane
Concen: 85.085 ug/l
RT: 2.924 min Scan# 1
Delta R.T. -0.024 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 94 Resp: 13592

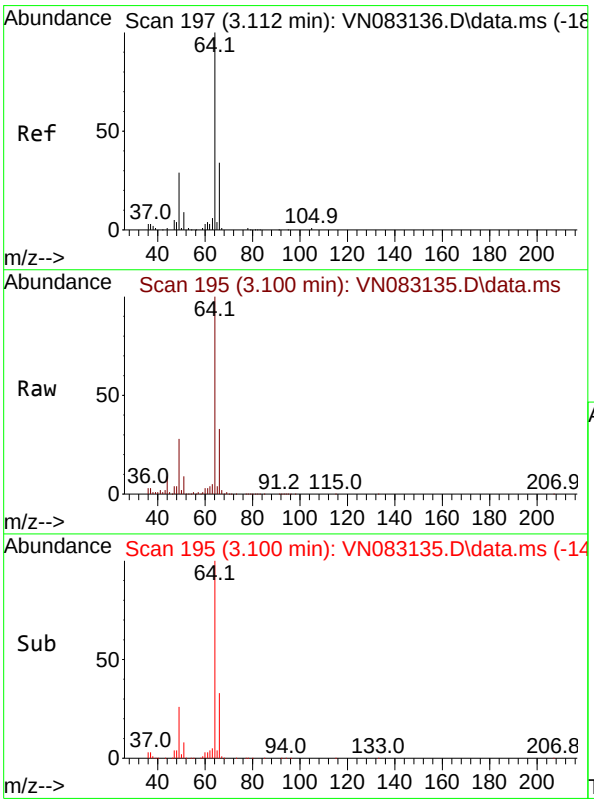
Ion	Ratio	Lower	Upper
94	100		
96	94.0	78.0	117.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

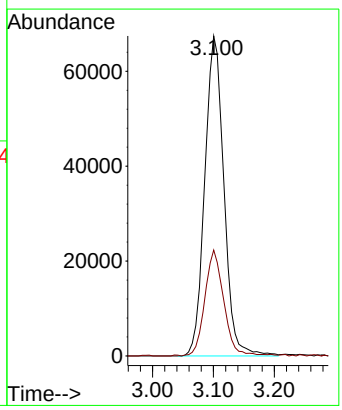
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

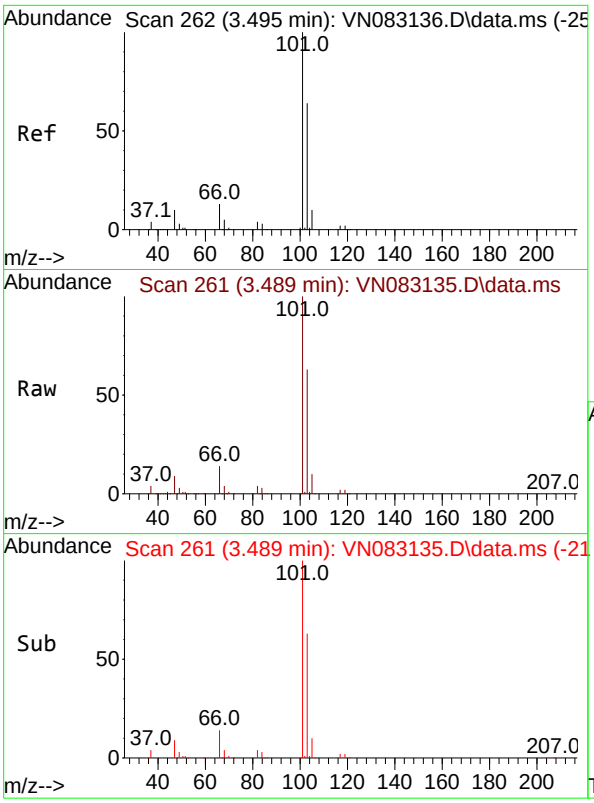


#6
Chloroethane
Concen: 91.645 ug/l
RT: 3.100 min Scan# 195
Delta R.T. -0.012 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 64 Resp: 147611

Ion	Ratio	Lower	Upper
64	100		
66	32.9	26.6	40.0

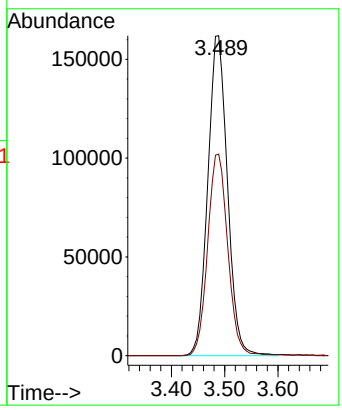




#7
Trichlorofluoromethane
Concen: 97.558 ug/l
RT: 3.489 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:101 Resp: 41491

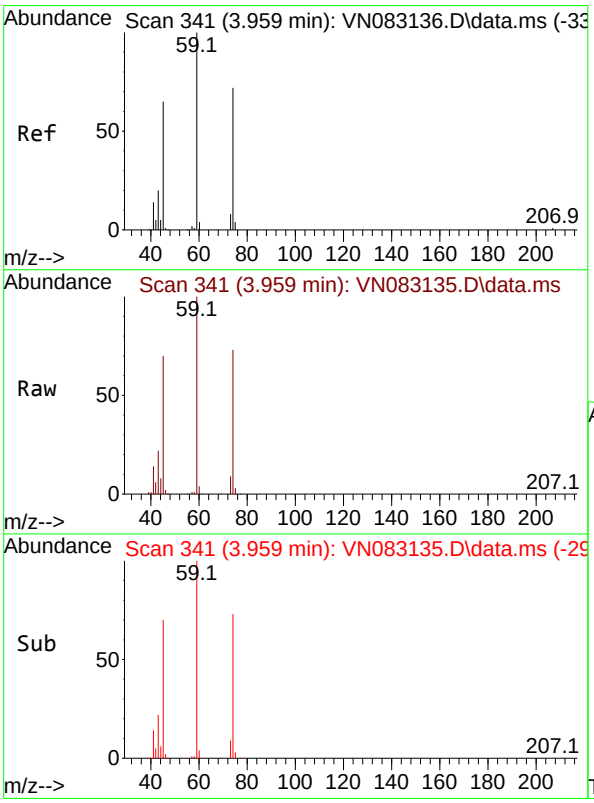
Ion	Ratio	Lower	Upper
101	100		
103	63.0	52.7	79.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

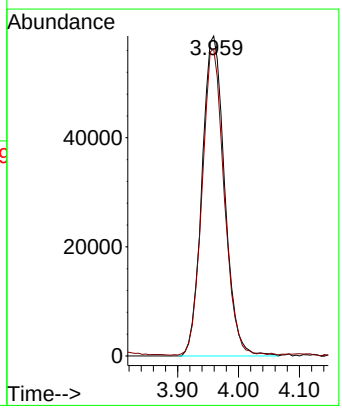
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

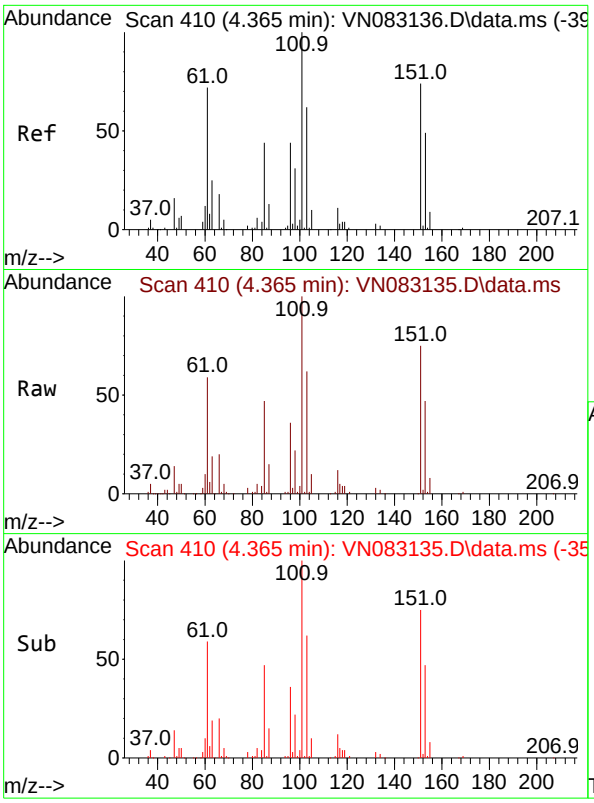


#8
Diethyl Ether
Concen: 95.597 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 74 Resp: 151291

Ion	Ratio	Lower	Upper
74	100		
45	93.4	55.5	166.3

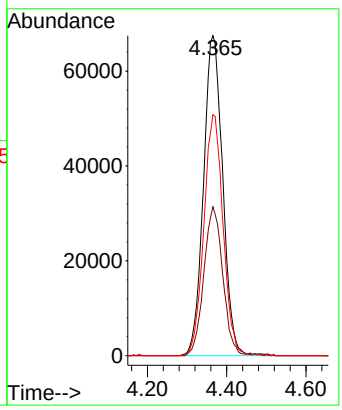




#9
1,1,2-Trichlorotrifluoroethane
Concen: 97.044 ug/l
RT: 4.365 min Scan# 4
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:101 Resp: 22755

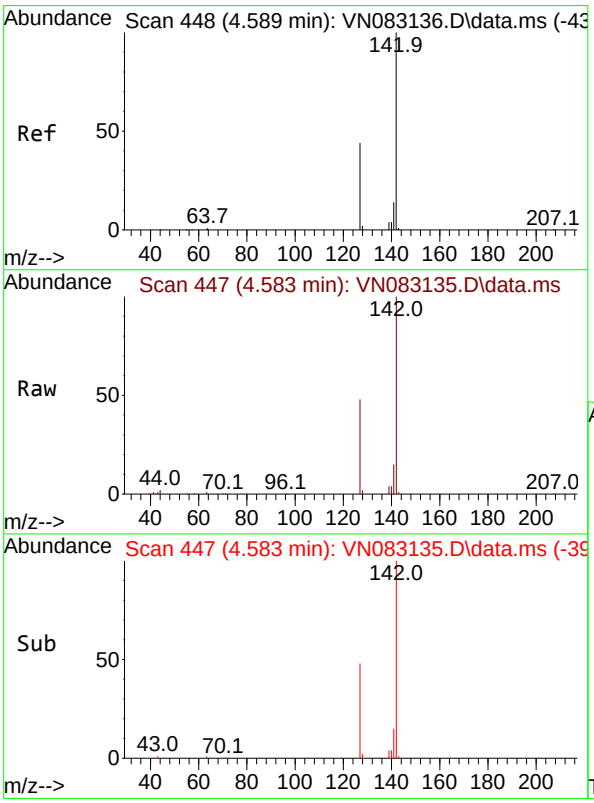
Ion	Ratio	Lower	Upper
101	100		
85	45.6	38.3	57.5
151	75.2	59.3	88.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

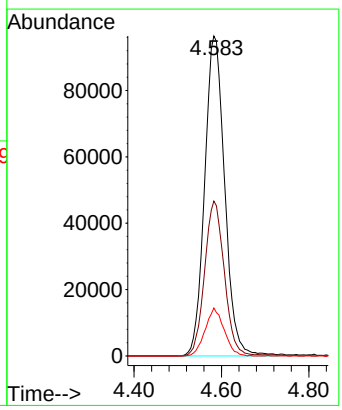
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

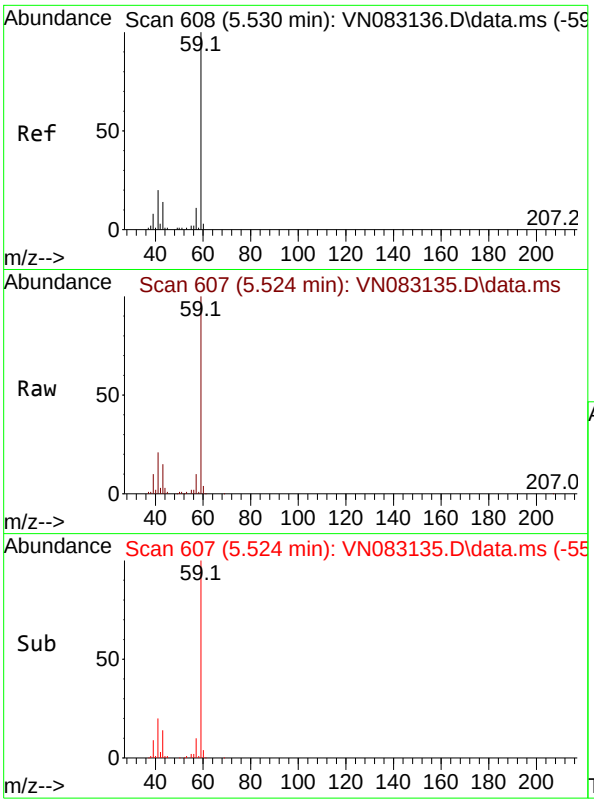


#10
Methyl Iodide
Concen: 99.686 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

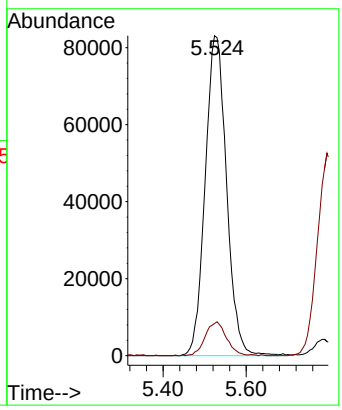




#11
Tert butyl alcohol
Concen: 461.112 ug/l
RT: 5.524 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 59 Resp: 29642

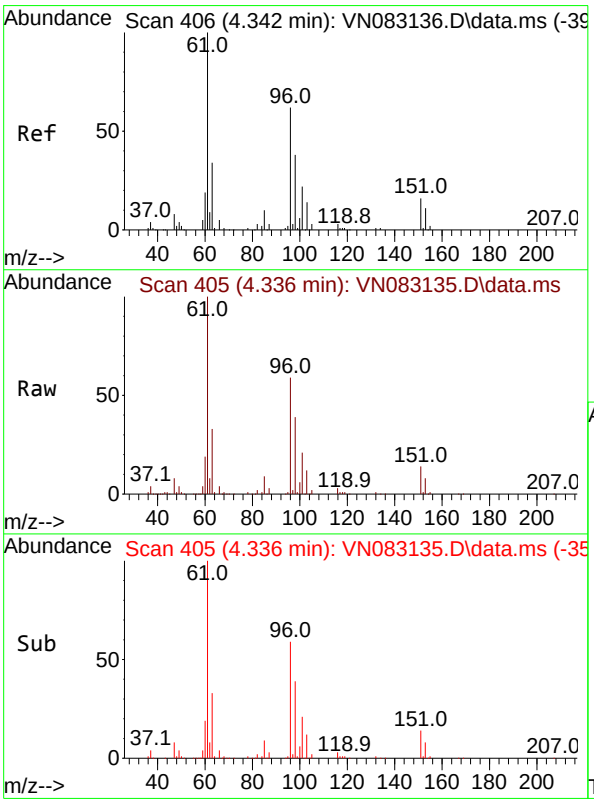
Ion	Ratio	Lower	Upper
59	100		
57	10.5	8.9	13.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

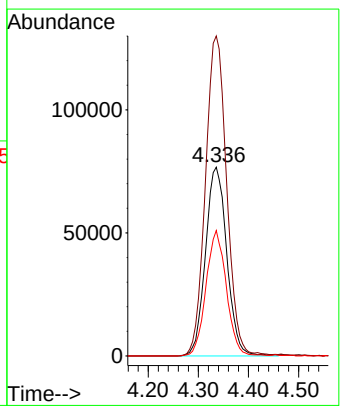
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

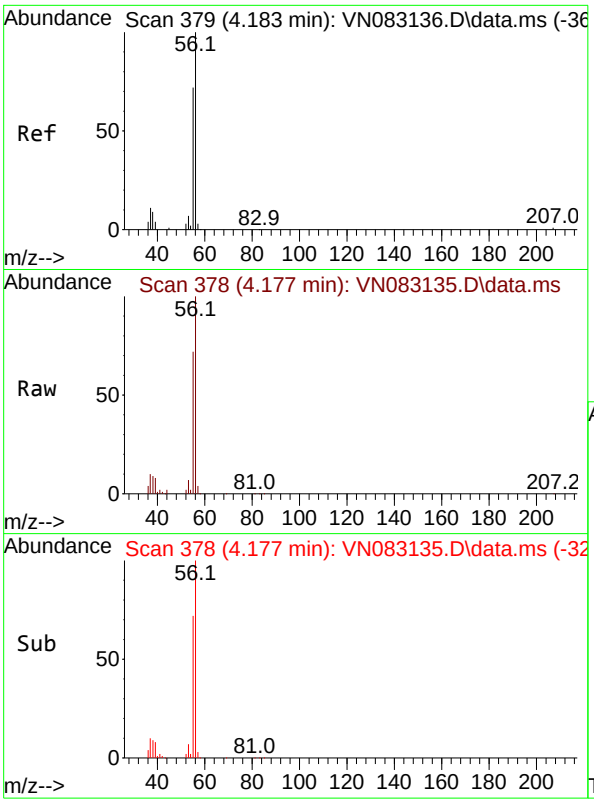


#12
1,1-Dichloroethene
Concen: 94.453 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

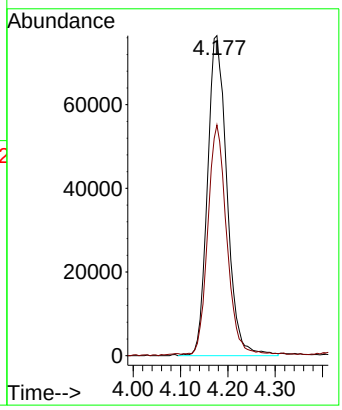




#13
Acrolein
Concen: 520.640 ug/l
RT: 4.177 min Scan# 3
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 56 Resp: 21813

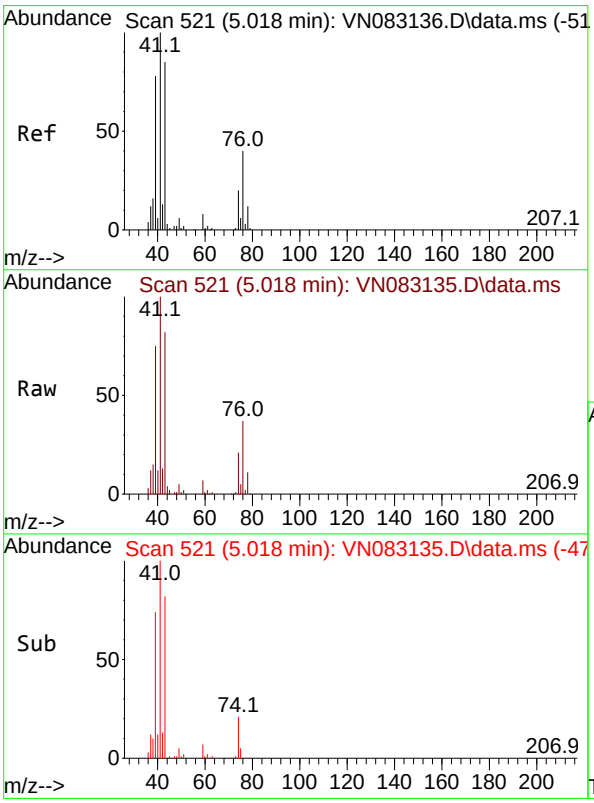
Ion	Ratio	Lower	Upper
56	100		
55	68.5	56.4	84.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

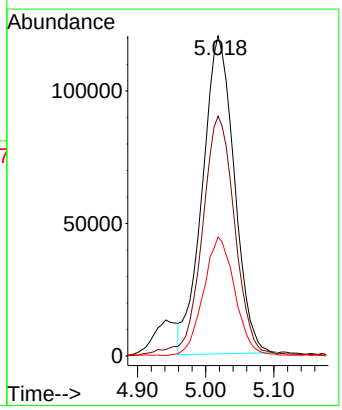
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

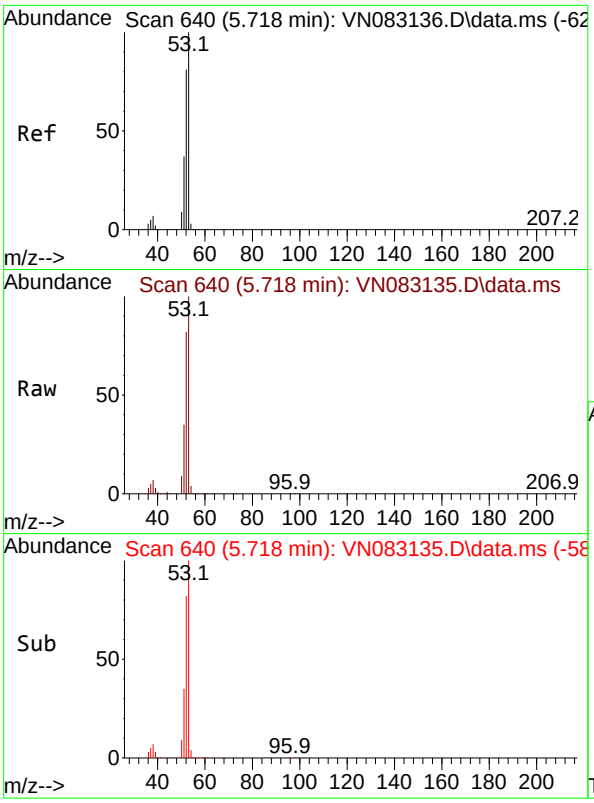


#14
Allyl chloride
Concen: 85.577 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

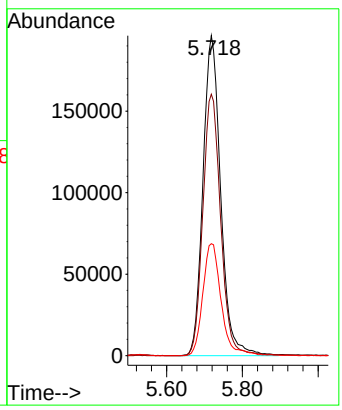




#15
Acrylonitrile
Concen: 481.734 ug/l
RT: 5.718 min Scan# 64
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 53 Resp: 63689

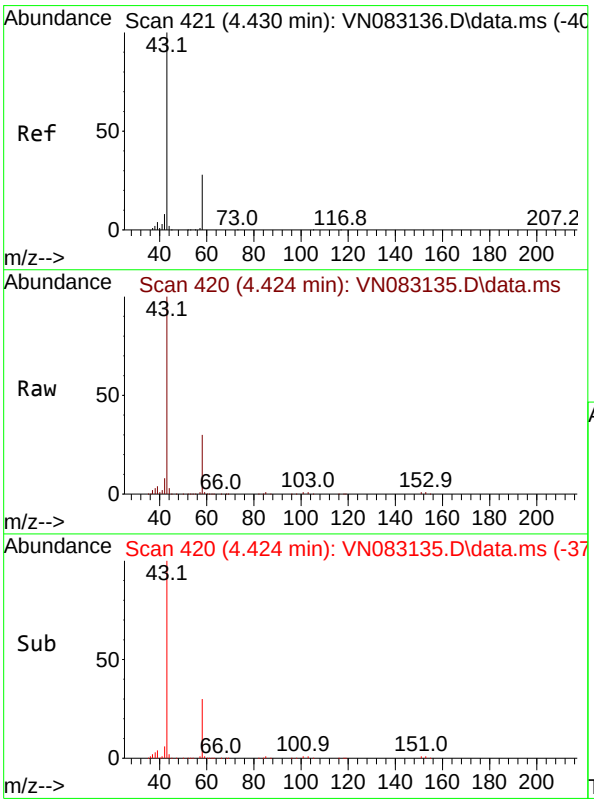
Ion	Ratio	Lower	Upper
53	100		
52	82.5	66.6	100.0
51	36.4	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

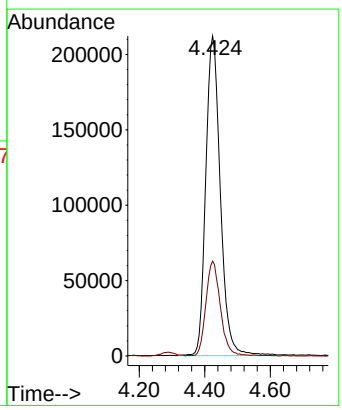
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

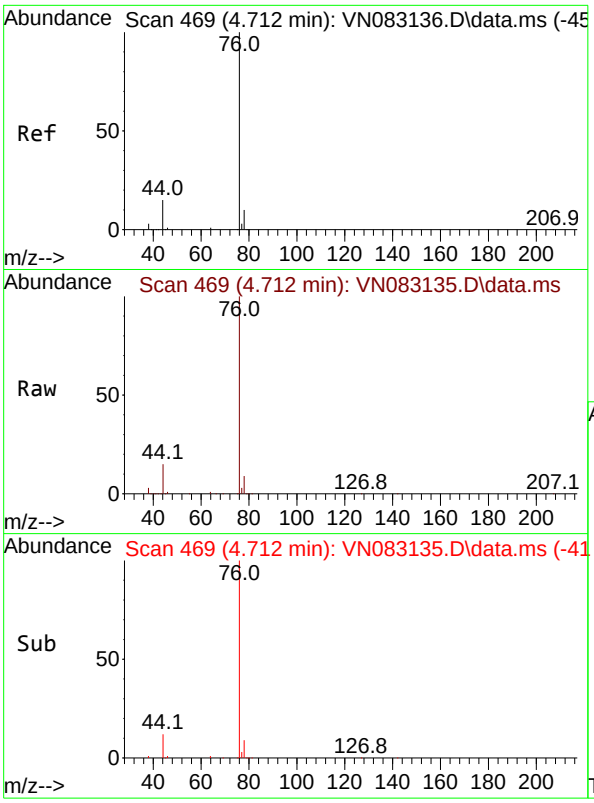


#16
Acetone
Concen: 542.264 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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# 4
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

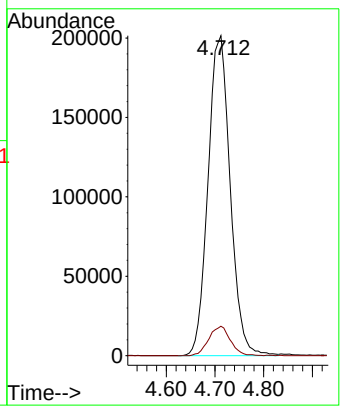
Tgt Ion: 76 Resp: 63725

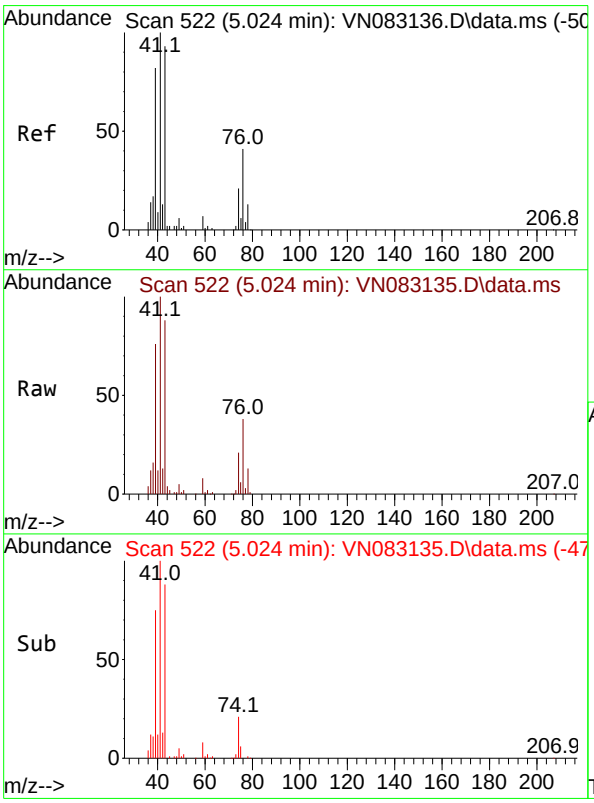
Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.2	10.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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

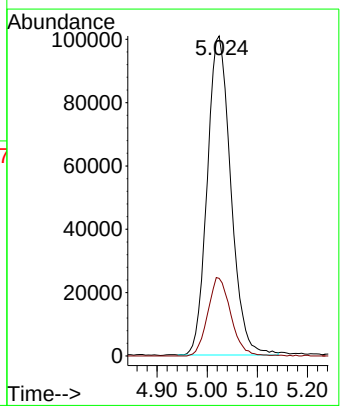


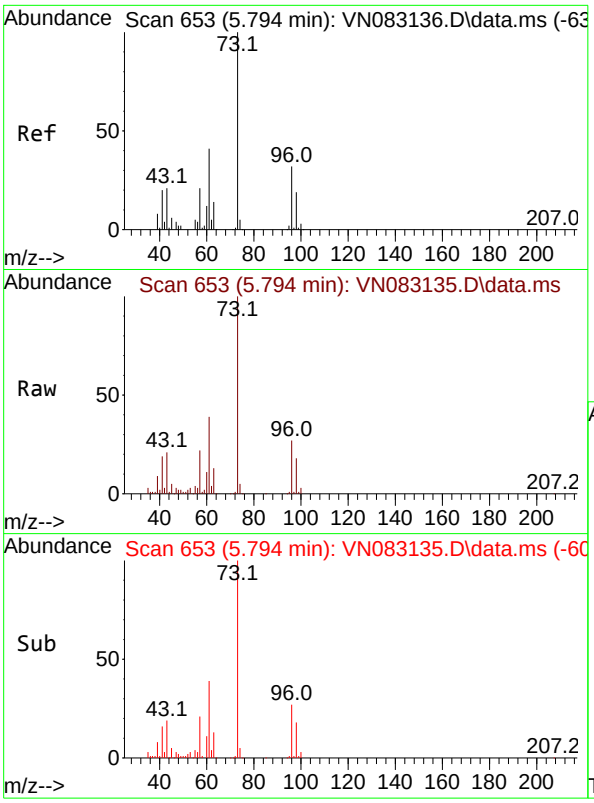


#18
Methyl Acetate
Concen: 91.357 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 43 Resp: 329457

Ion	Ratio	Lower	Upper
43	100		
74	24.0	16.3	24.5

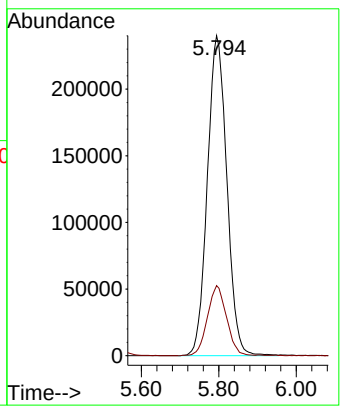




#19
Methyl tert-butyl Ether
Concen: 96.324 ug/l
RT: 5.794 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 73 Resp: 83756

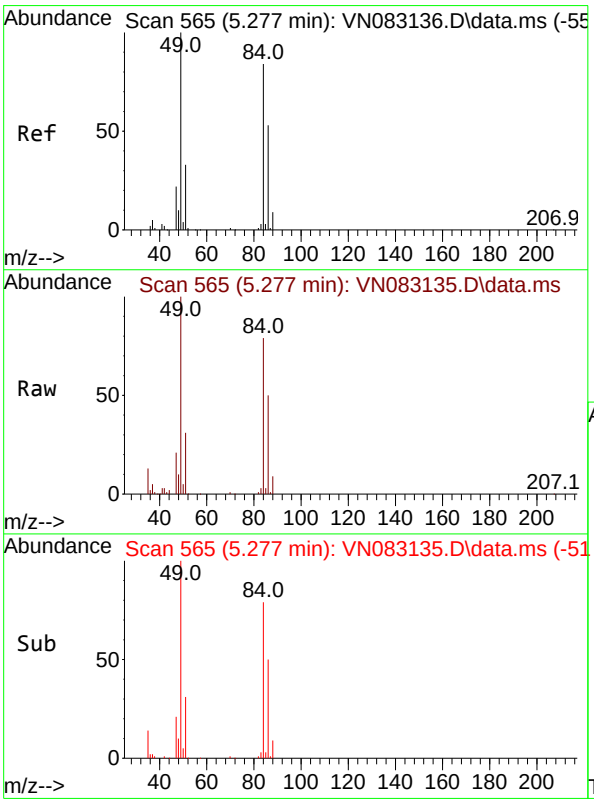
Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.9	26.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

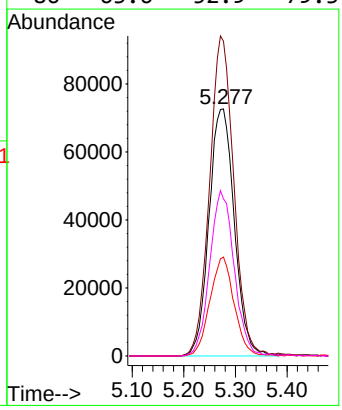
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

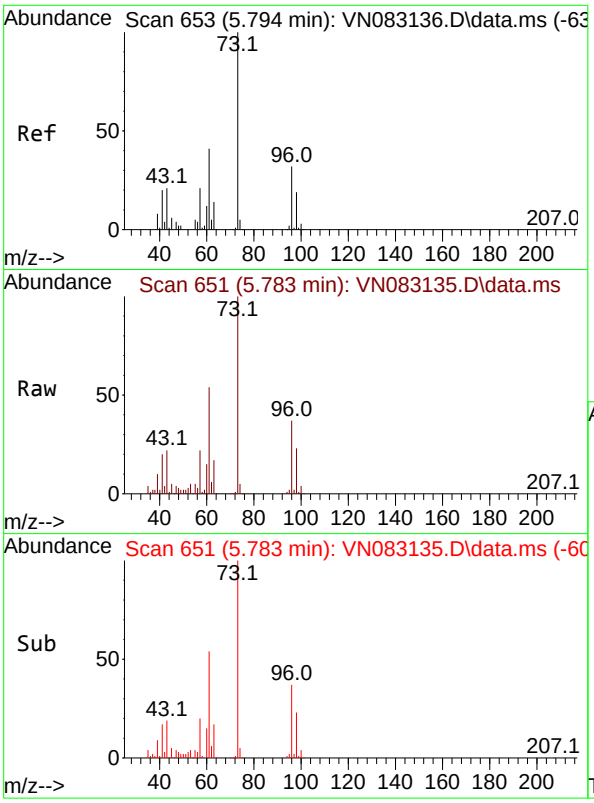


#20
Methylene Chloride
Concen: 88.771 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

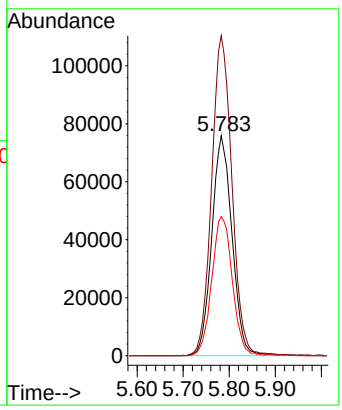




#21
trans-1,2-Dichloroethene
Concen: 92.991 ug/l
RT: 5.783 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 96 Resp: 23153

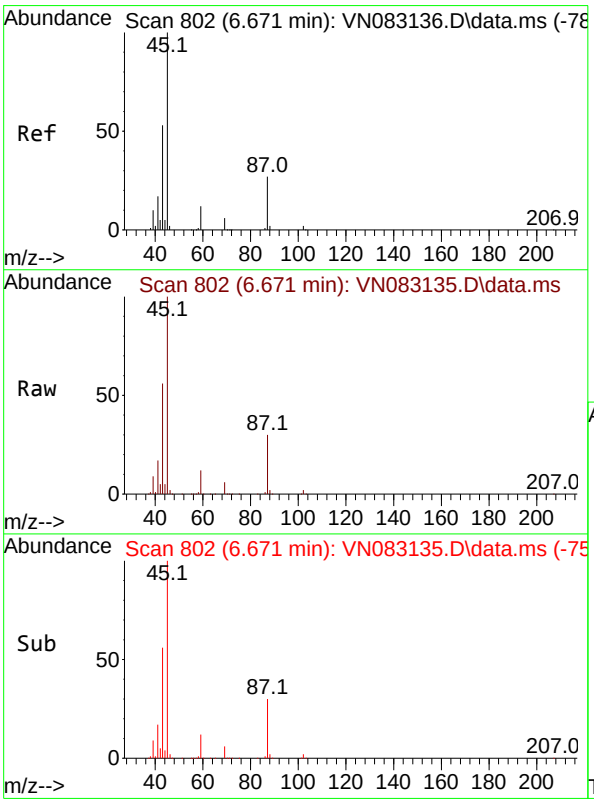
Ion	Ratio	Lower	Upper
96	100		
61	145.4	123.4	185.2
98	63.2	49.3	73.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

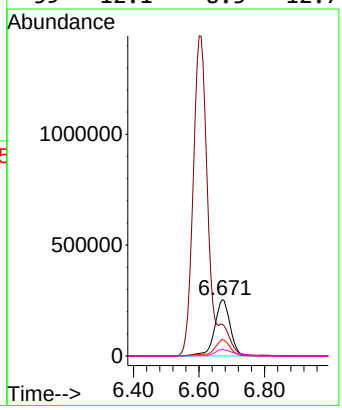
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

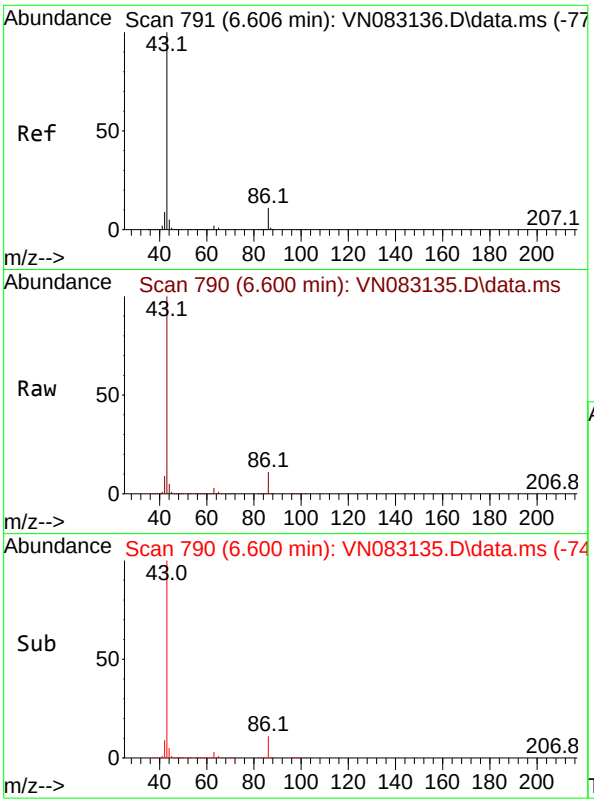


#22
Diisopropyl ether
Concen: 96.959 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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# 7
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

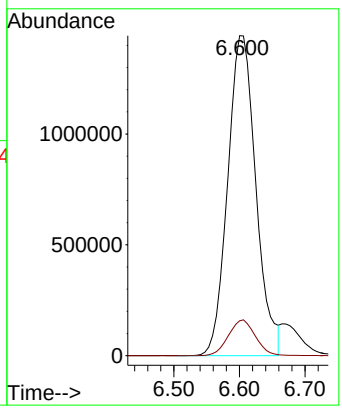
Tgt Ion: 43 Resp: 432491

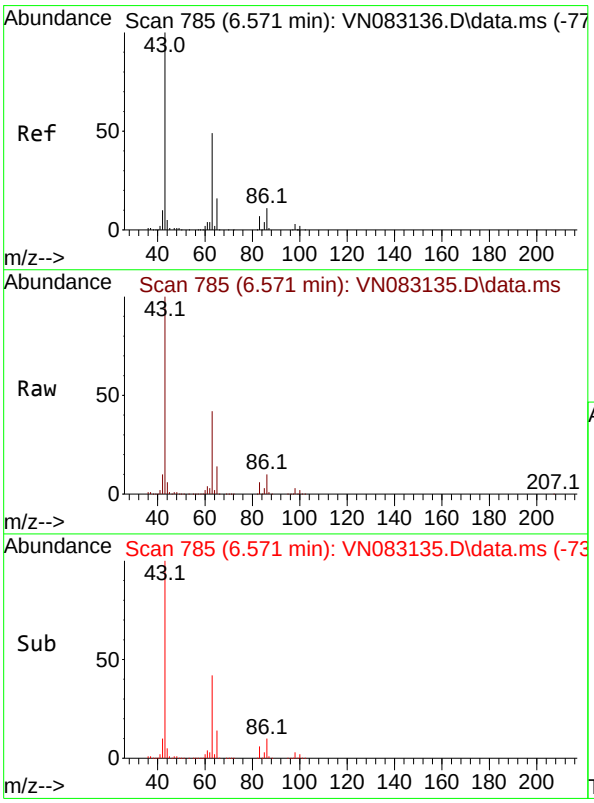
Ion	Ratio	Lower	Upper
43	100		
86	10.9	7.3	10.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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

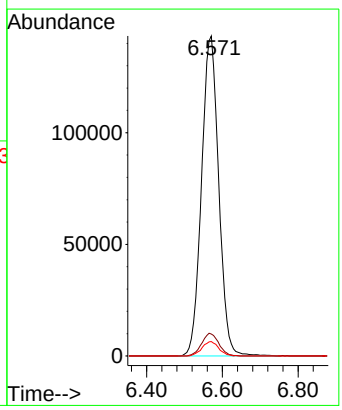


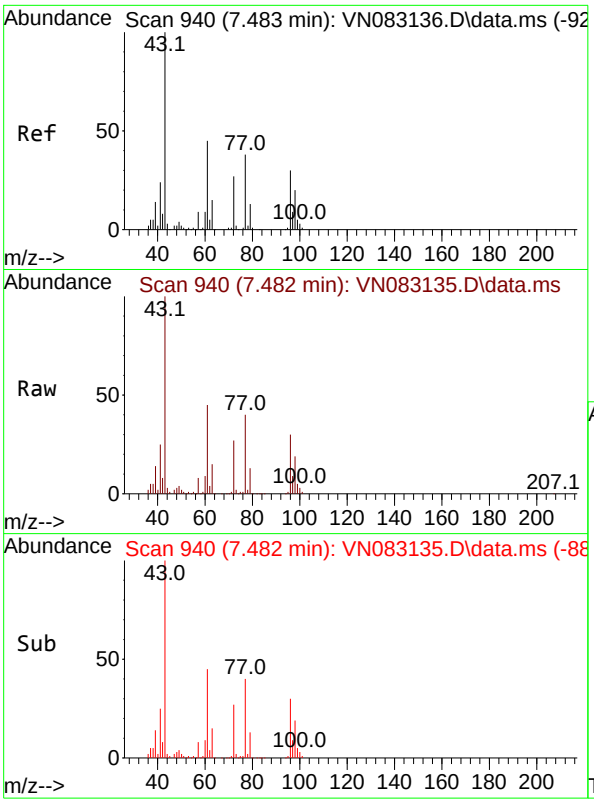


#24
1,1-Dichloroethane
Concen: 96.746 ug/l
RT: 6.571 min Scan# 785
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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# 94
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

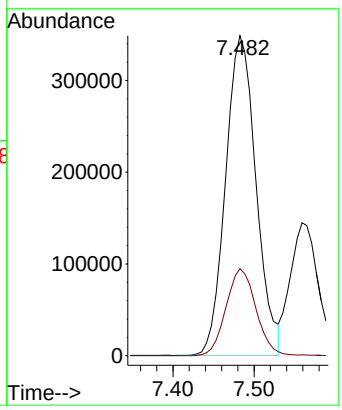
Tgt Ion: 43 Resp: 90899

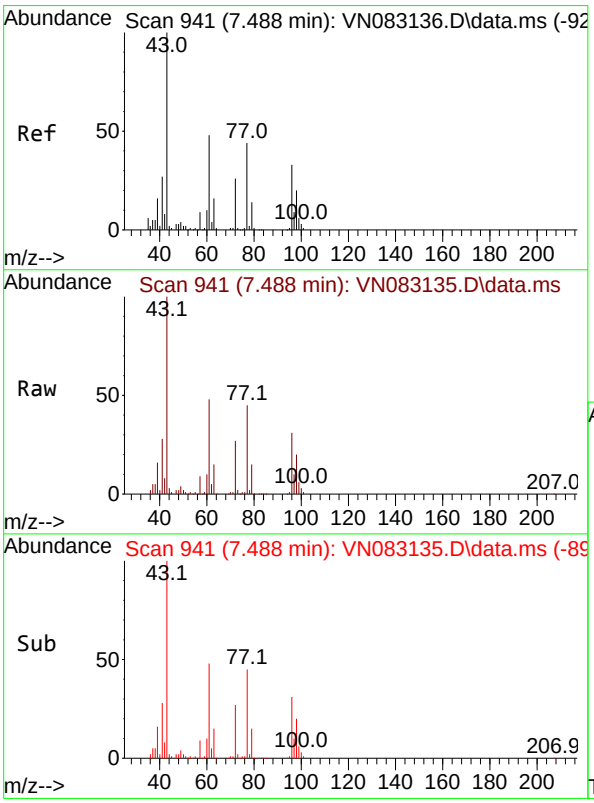
Ion	Ratio	Lower	Upper
43	100		
72	27.2	18.2	27.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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

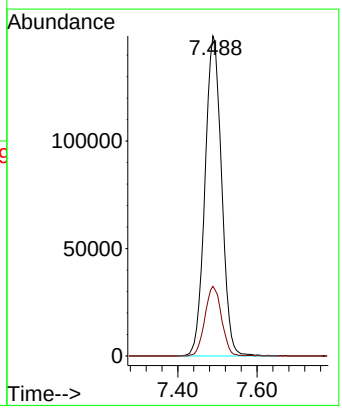


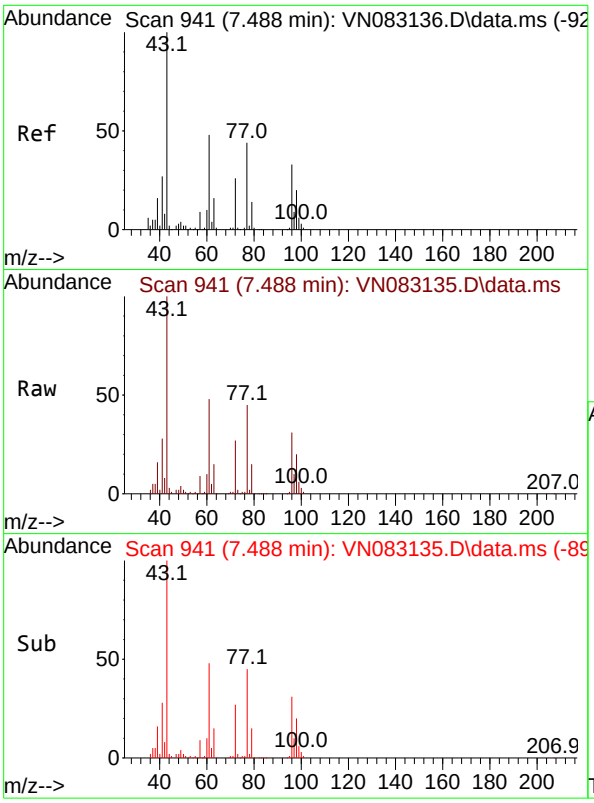


#26
2,2-Dichloropropane
Concen: 100.075 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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# 94
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

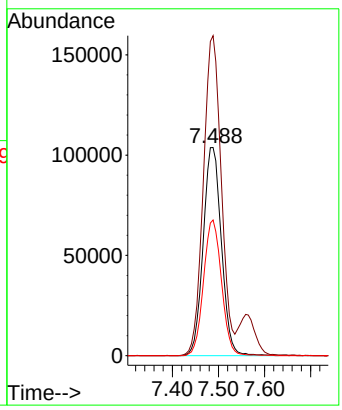
Tgt Ion: 96 Resp: 28610

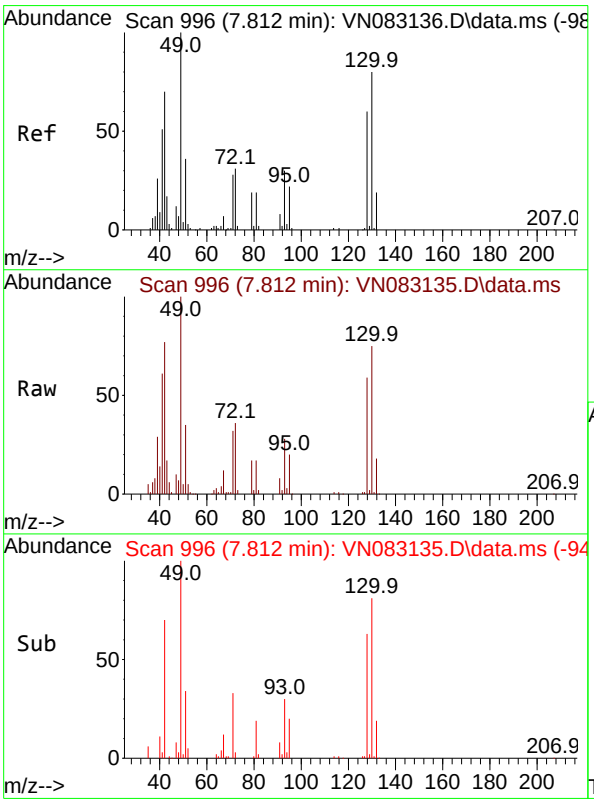
Ion	Ratio	Lower	Upper
96	100		
61	151.6	0.0	329.6
98	64.3	0.0	128.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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

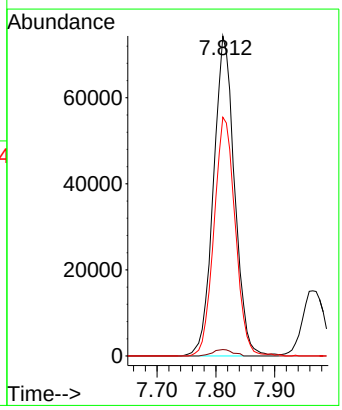


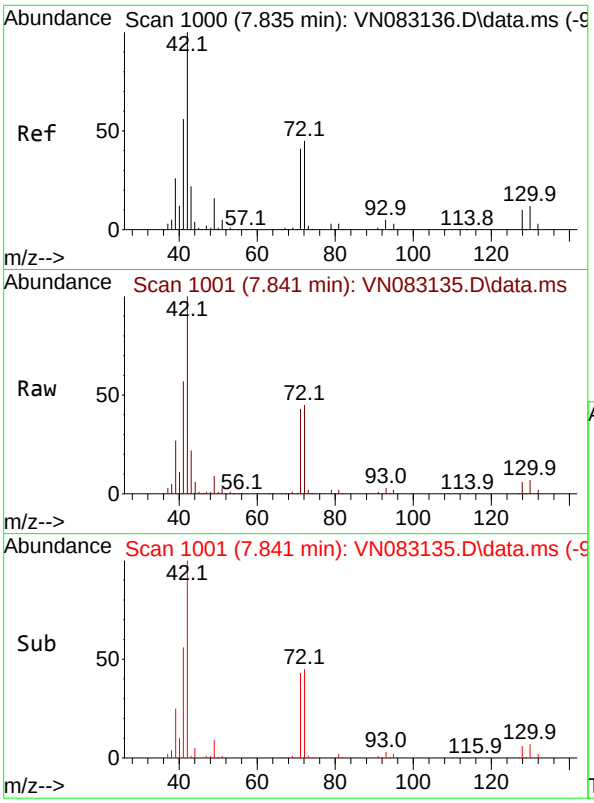


#28
Bromochloromethane
Concen: 97.333 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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# 1
Delta R.T. 0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

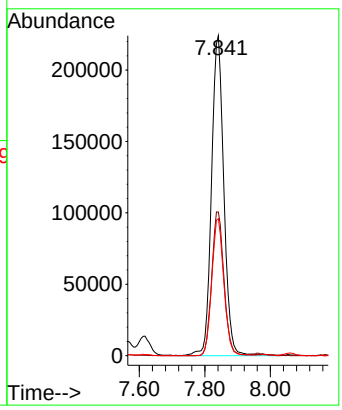
Tgt Ion: 42 Resp: 58732

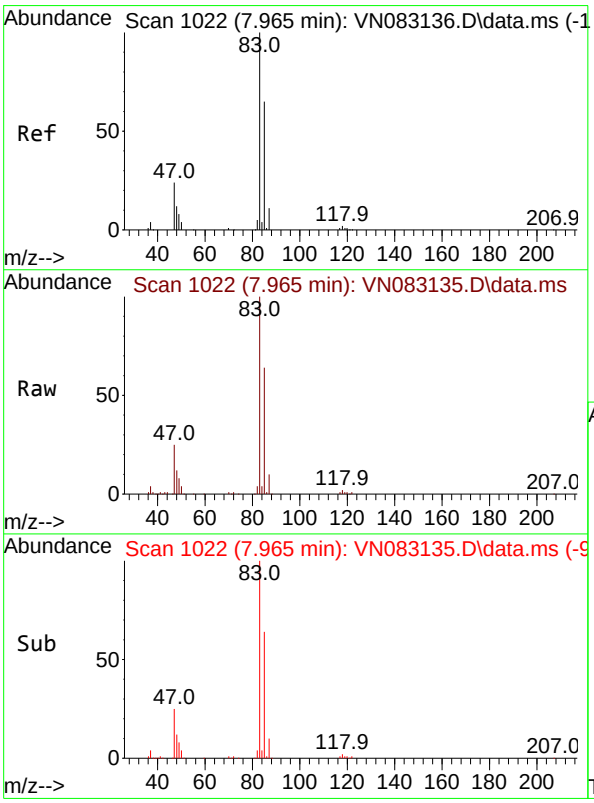
Ion	Ratio	Lower	Upper
42	100		
72	44.6	30.0	45.0
71	41.9	28.3	42.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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

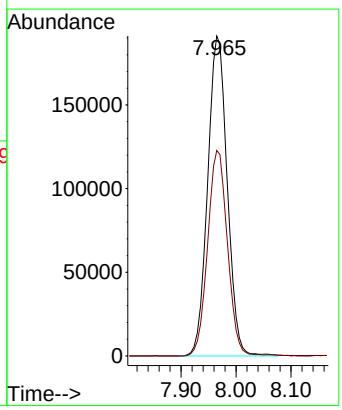


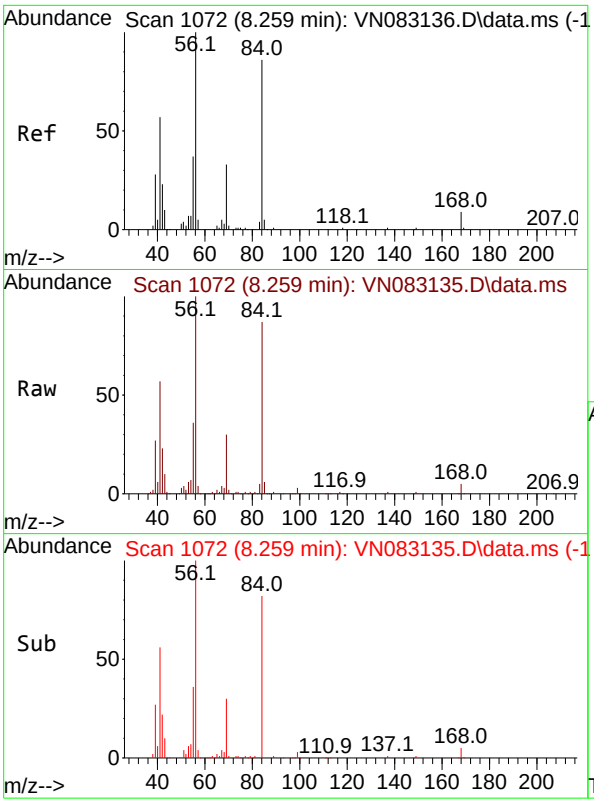


#30
Chloroform
Concen: 97.456 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 83 Resp: 472257

Ion	Ratio	Lower	Upper
83	100		
85	64.2	50.9	76.3

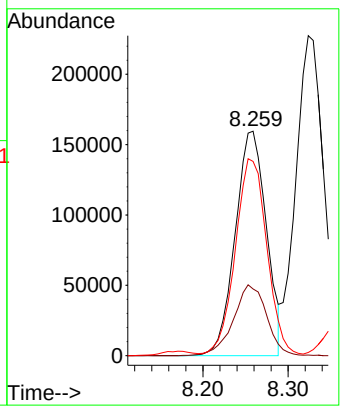




#31
Cyclohexane
Concen: 88.496 ug/l
RT: 8.259 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 56 Resp: 40566

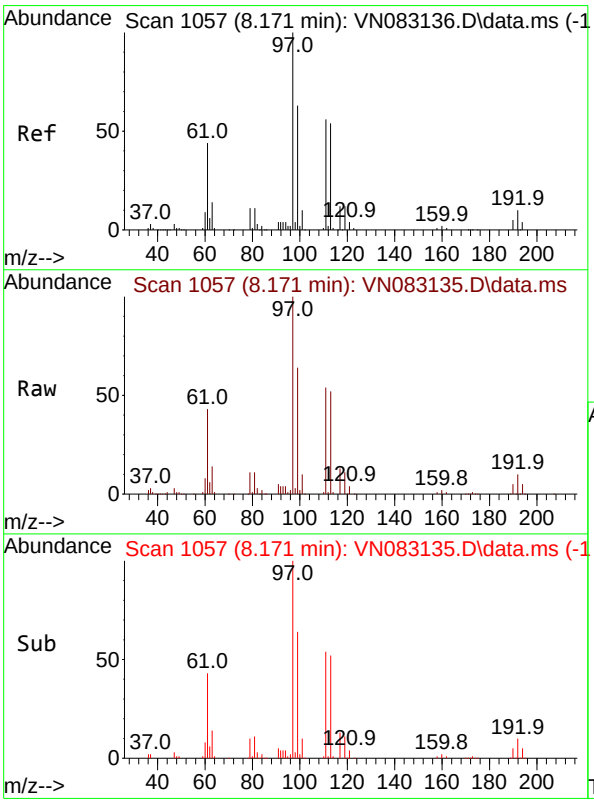
Ion	Ratio	Lower	Upper
56	100		
69	29.7	24.5	36.7
84	84.5	66.0	99.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

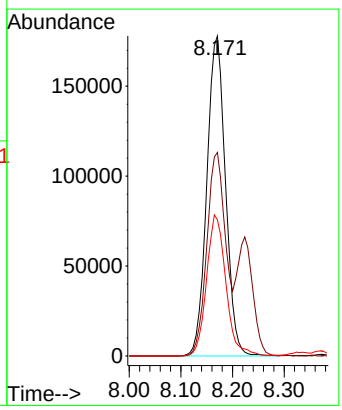
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

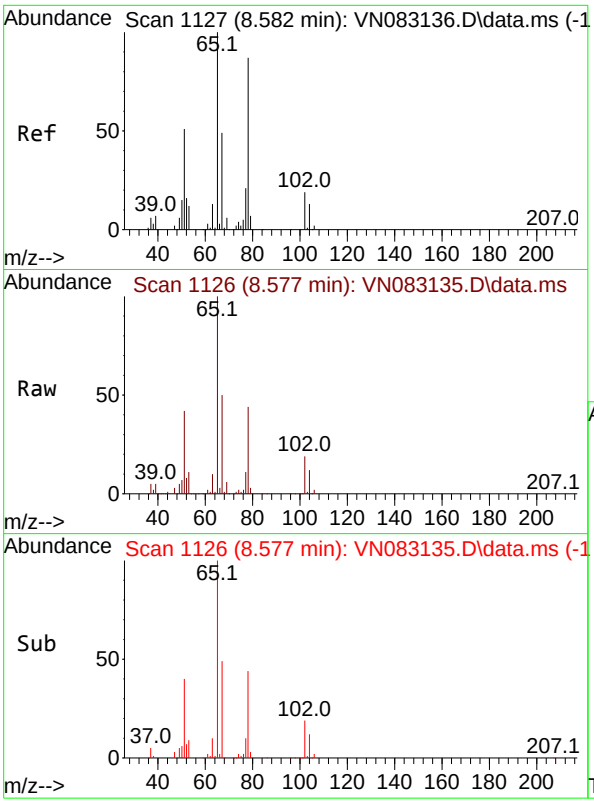


#32
1,1,1-Trichloroethane
Concen: 97.332 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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# 1
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

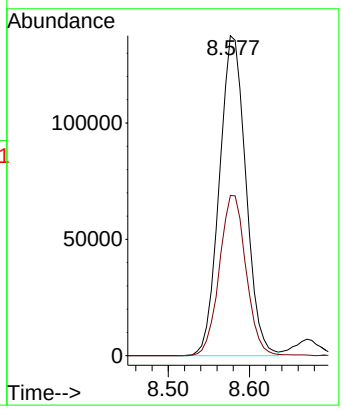
Tgt Ion: 65 Resp: 31153

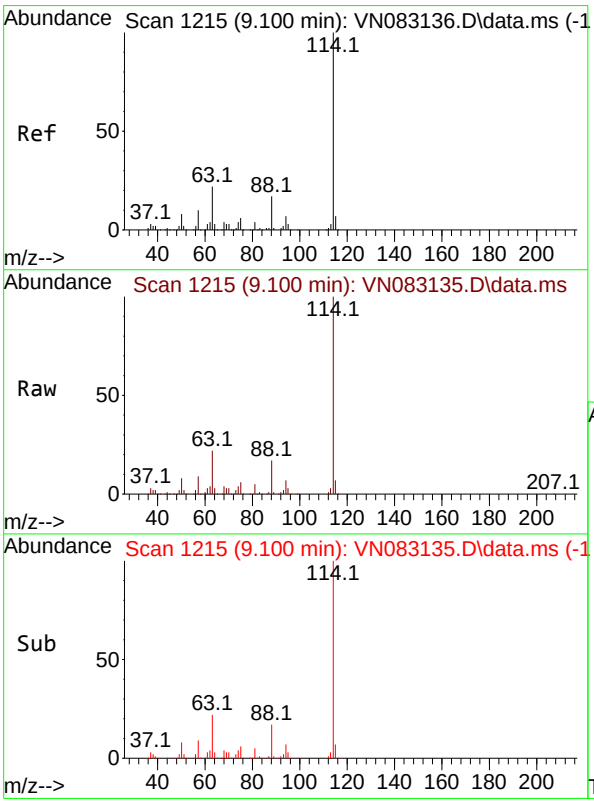
Ion	Ratio	Lower	Upper
65	100		
67	50.6	0.0	104.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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

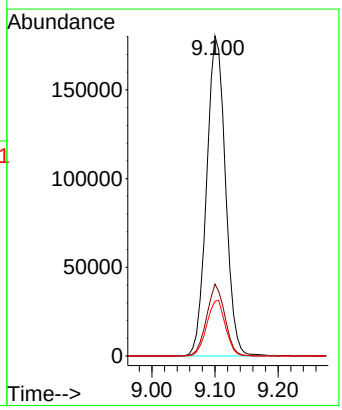


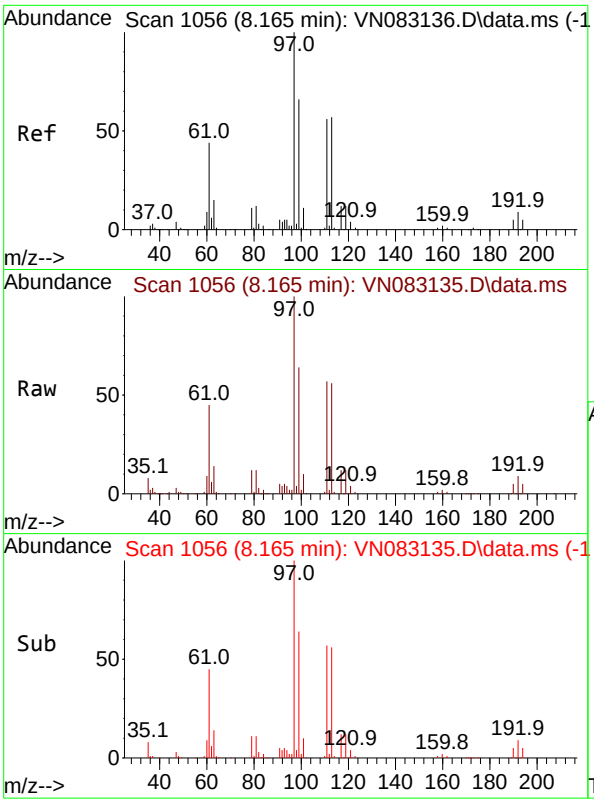


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

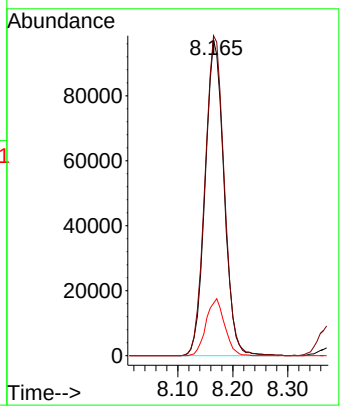




#35
Dibromofluoromethane
Concen: 99.556 ug/l
RT: 8.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:113 Resp: 23180

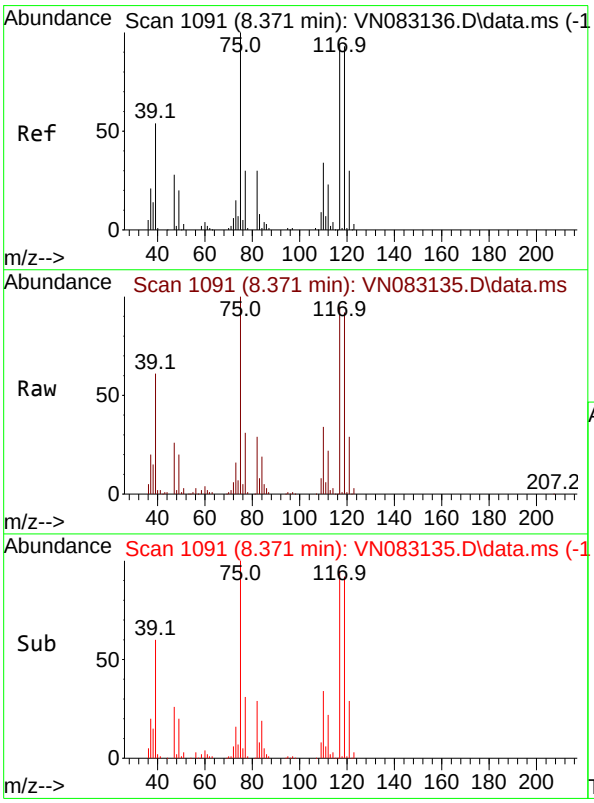
Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.4	123.6
192	17.7	14.9	22.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

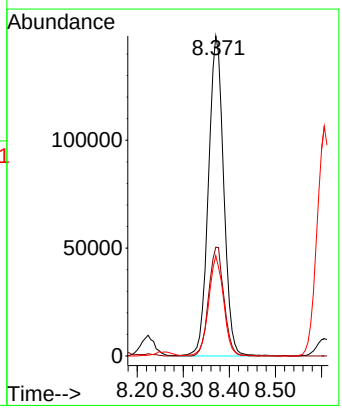
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

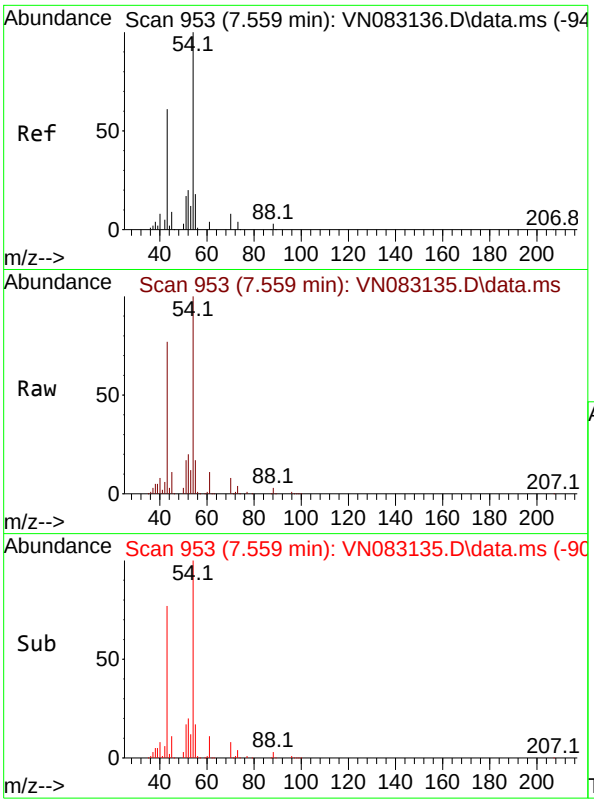


#36
1,1-Dichloropropene
Concen: 96.808 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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# 9
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

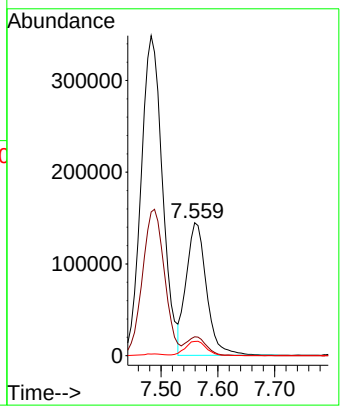
Tgt Ion: 43 Resp: 35730

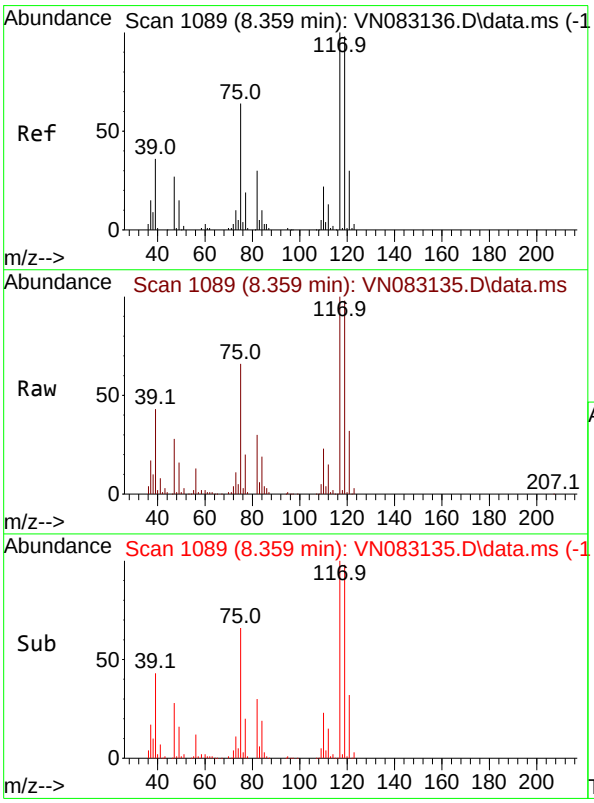
Ion	Ratio	Lower	Upper
43	100		
61	14.4	9.3	13.9#
70	11.4	7.0	10.6#

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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

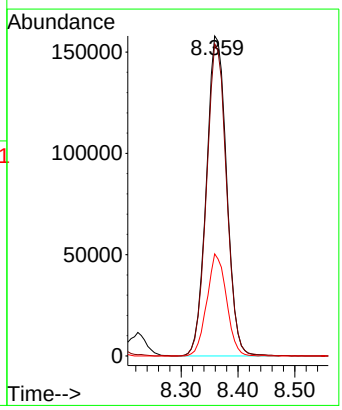


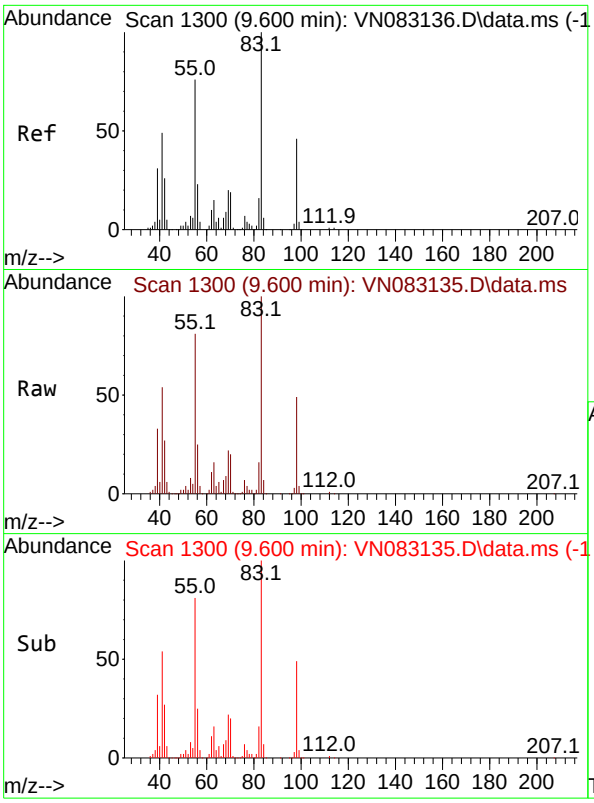


#38
Carbon Tetrachloride
Concen: 98.597 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

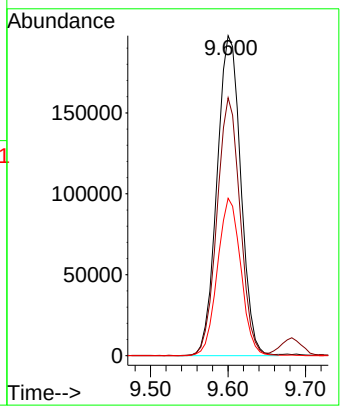
Tgt Ion: 83 Resp: 42174

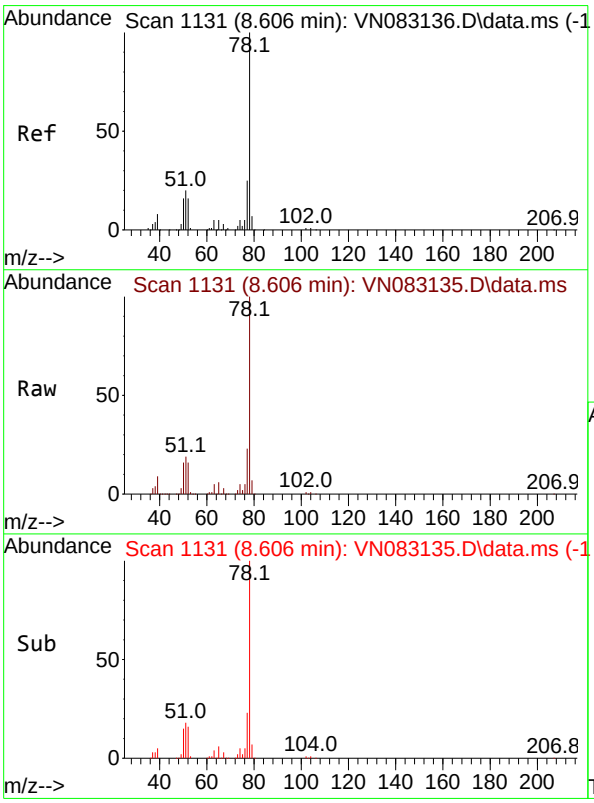
Ion	Ratio	Lower	Upper
83	100		
55	80.6	66.4	99.6
98	49.2	40.7	61.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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

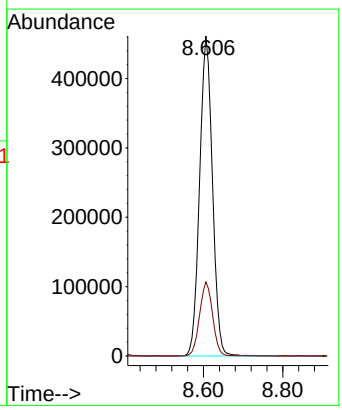


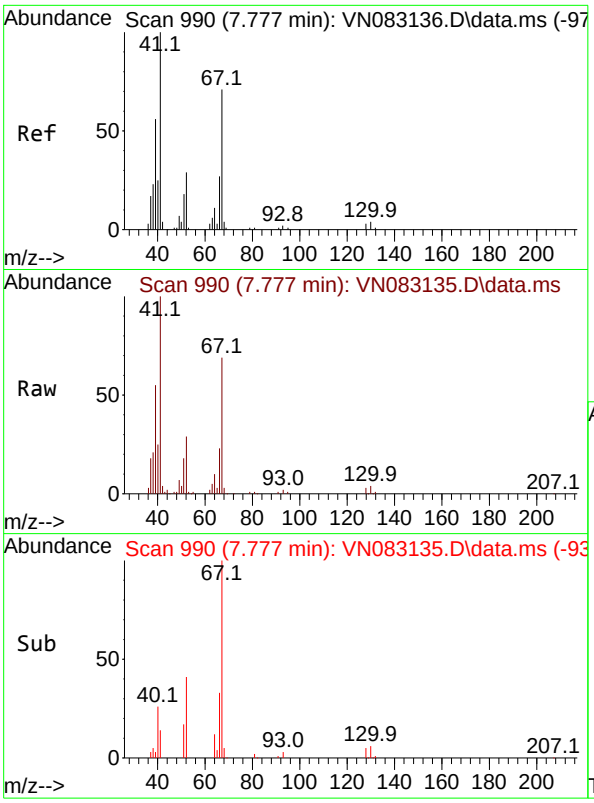


#40
Benzene
Concen: 98.550 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 78 Resp: 1034059

Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.0	28.4

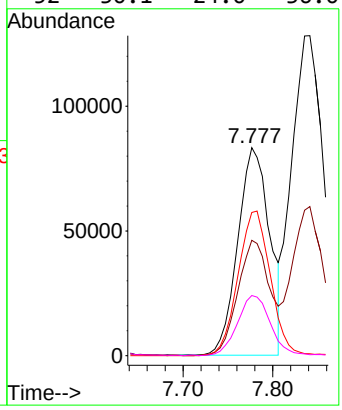




#41
Methacrylonitrile
Concen: 91.799 ug/l
RT: 7.777 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 41 Resp: 20584

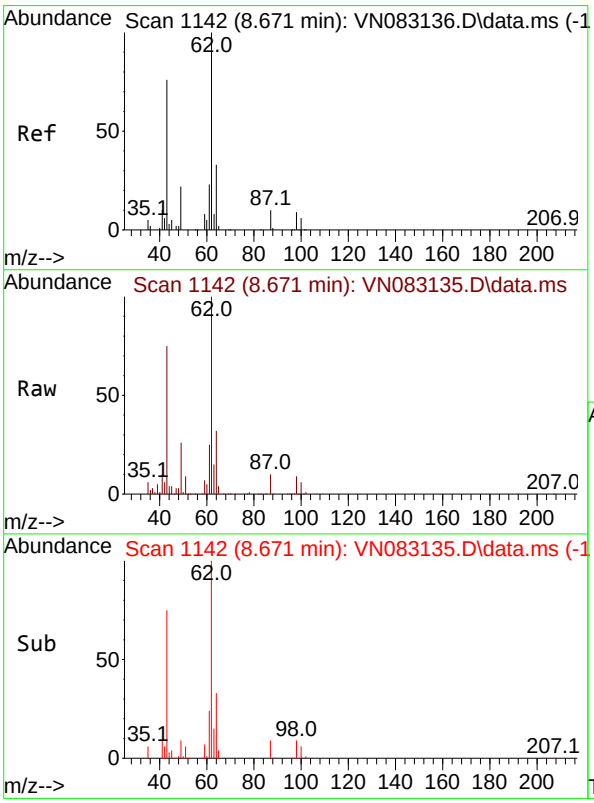
Ion	Ratio	Lower	Upper
41	100		
39	55.7	45.5	68.3
67	70.9	50.5	75.7
52	30.1	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

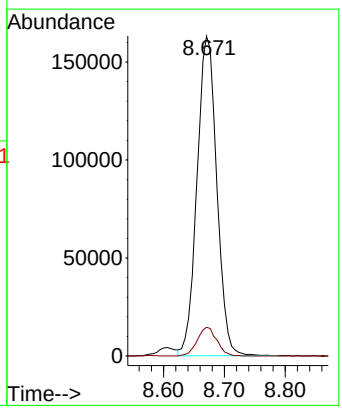
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

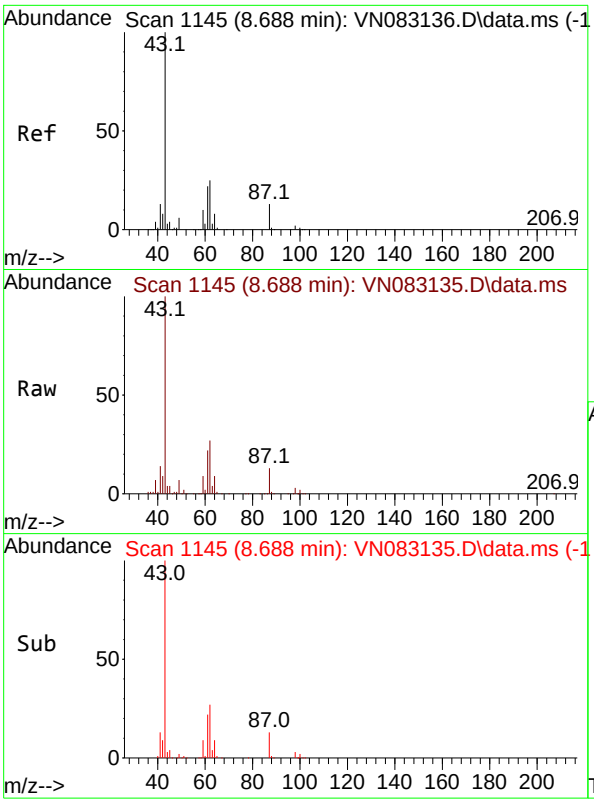


#42
1,2-Dichloroethane
Concen: 96.385 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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# 1
Delta R.T. 0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

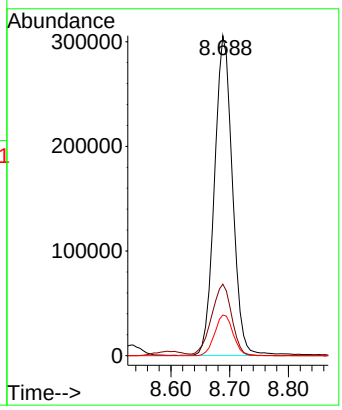
Tgt Ion: 43 Resp: 64858

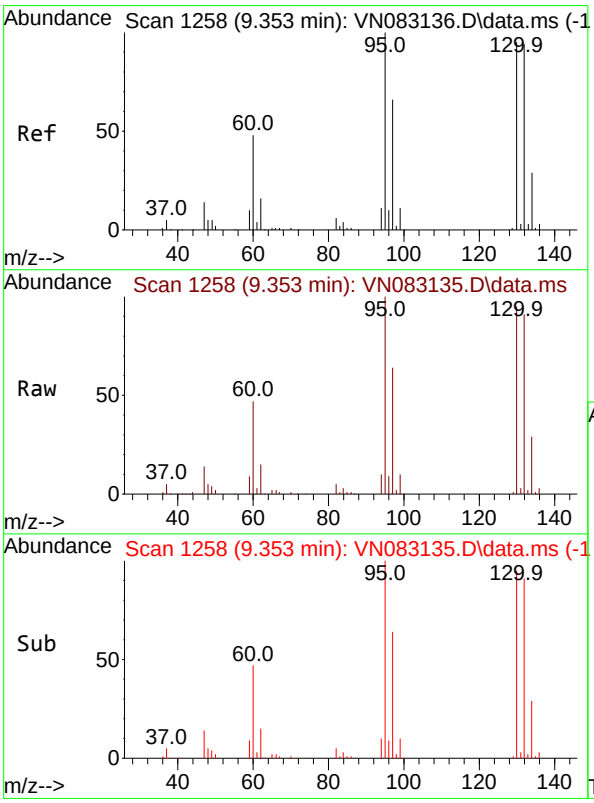
Ion	Ratio	Lower	Upper
43	100		
61	25.2	17.8	26.6
87	13.0	8.2	12.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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

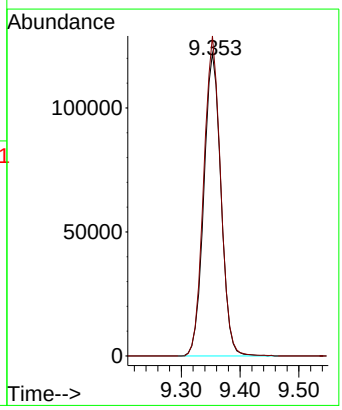


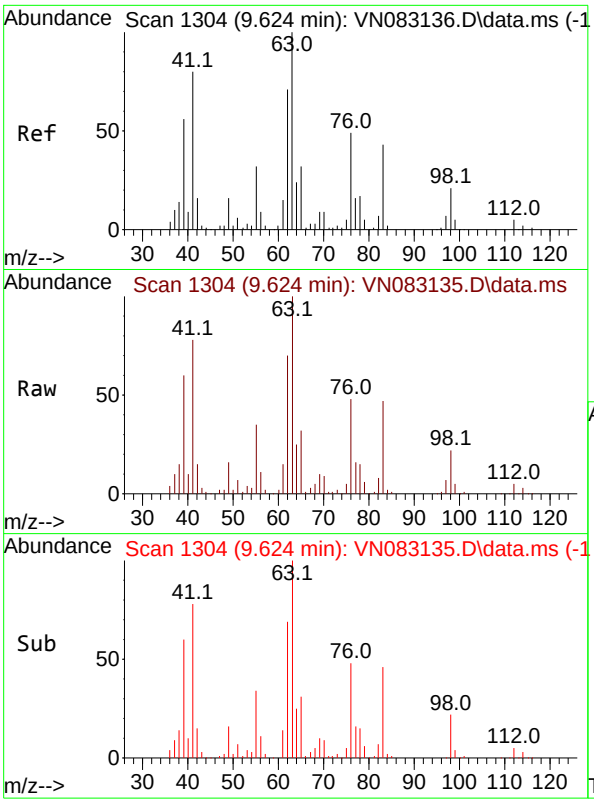


#44
Trichloroethene
Concen: 98.774 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:130 Resp: 246689

Ion	Ratio	Lower	Upper
130	100		
95	105.7	0.0	197.8

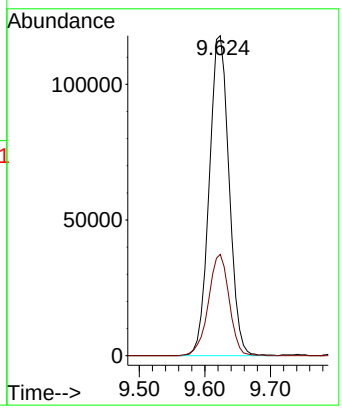




#45
1,2-Dichloropropane
Concen: 99.275 ug/l
RT: 9.624 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 63 Resp: 24726

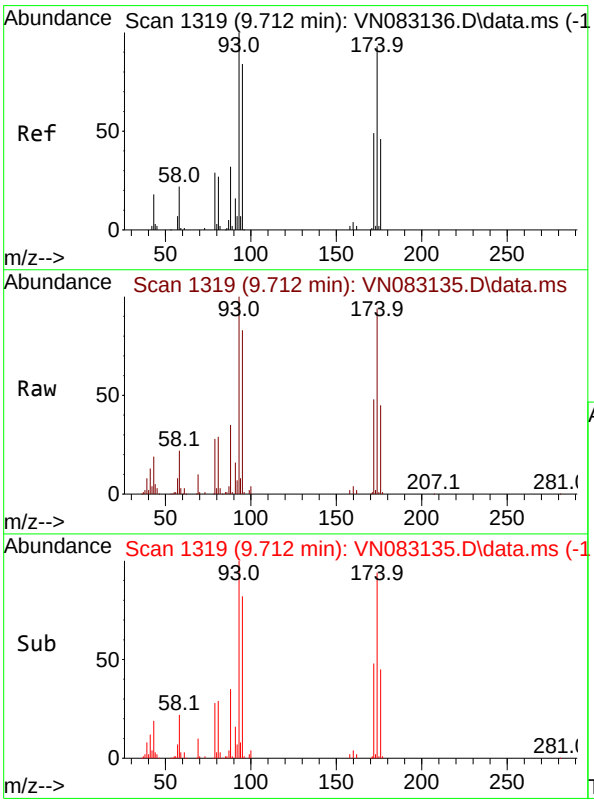
Ion	Ratio	Lower	Upper
63	100		
65	31.6	24.4	36.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

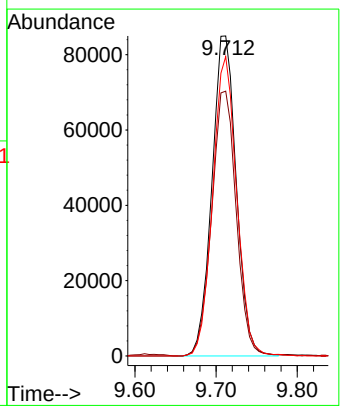
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

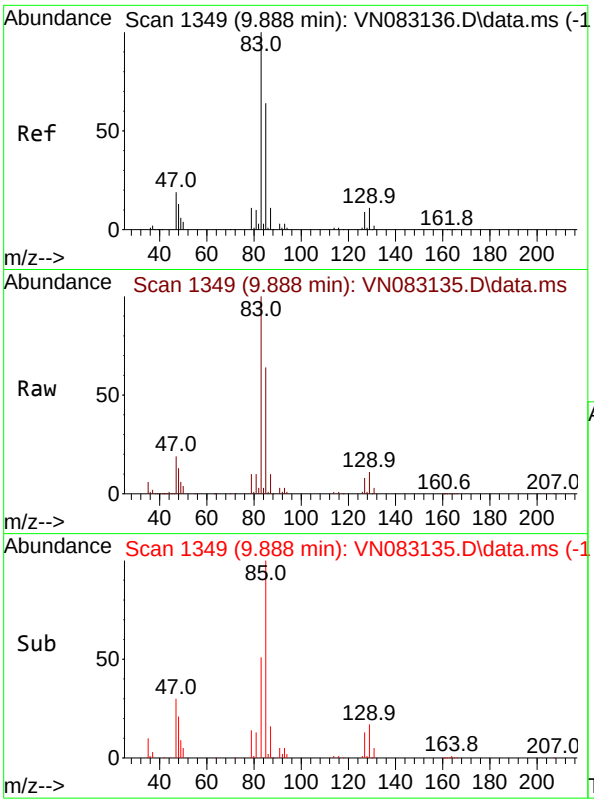


#46
Dibromomethane
Concen: 99.449 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

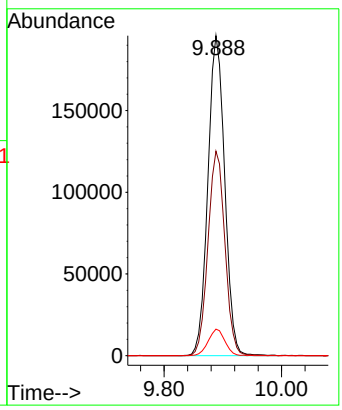




#47
Bromodichloromethane
Concen: 97.184 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 83 Resp: 38902

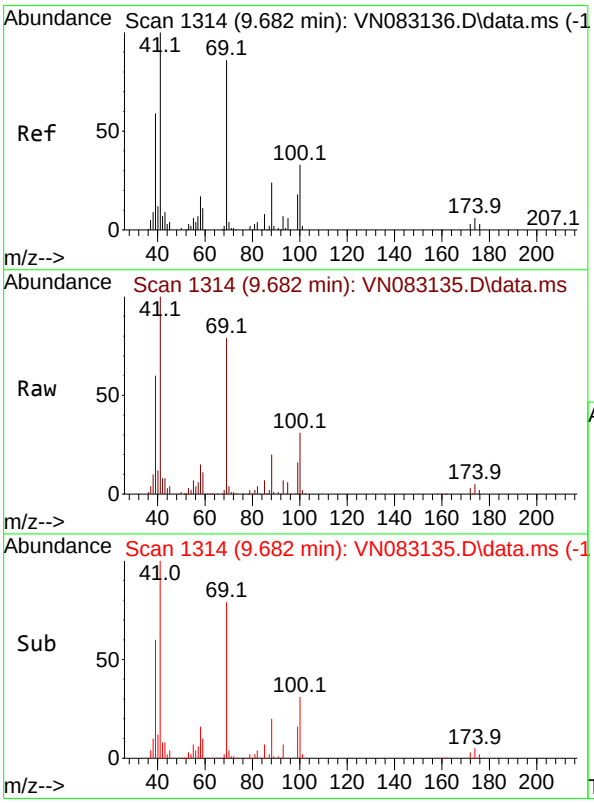
Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.1	76.7
127	8.3	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

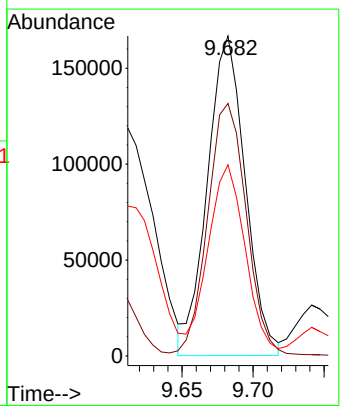
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

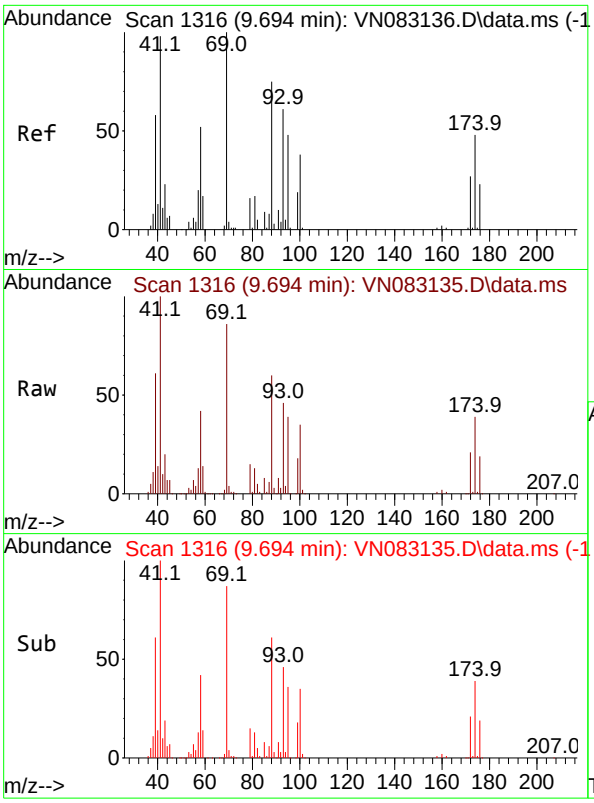


#48
Methyl methacrylate
Concen: 94.886 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

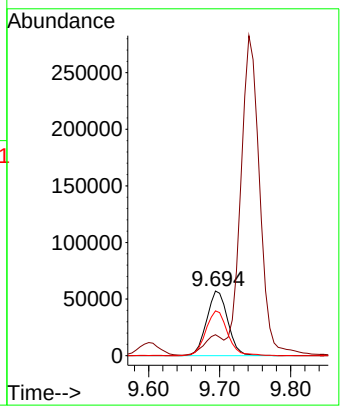
Tgt Ion: 88 Resp: 11734

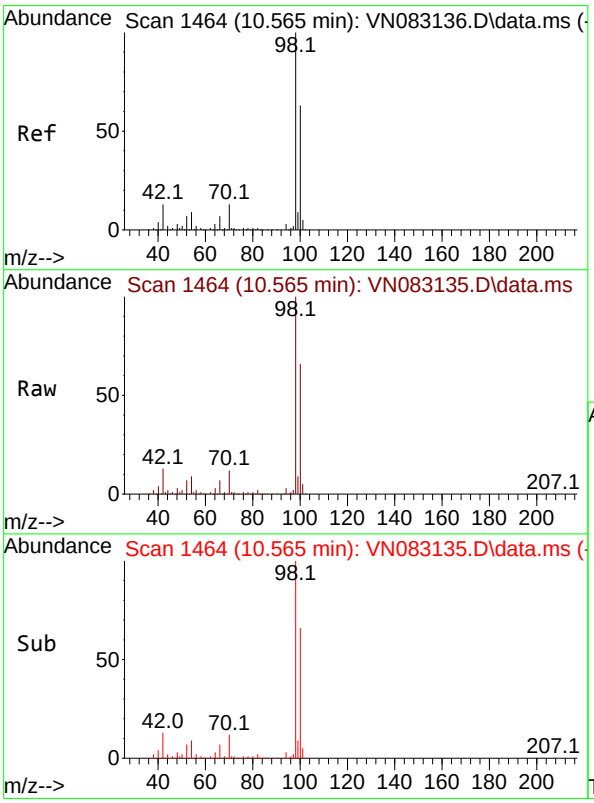
Ion	Ratio	Lower	Upper
88	100		
43	28.2	27.8	41.8
58	71.8	59.4	89.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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

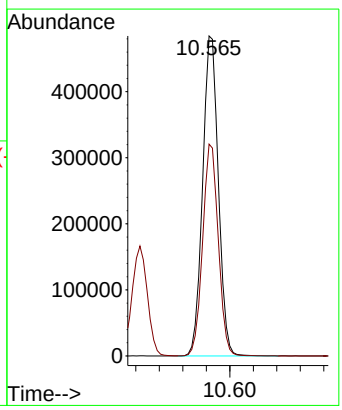


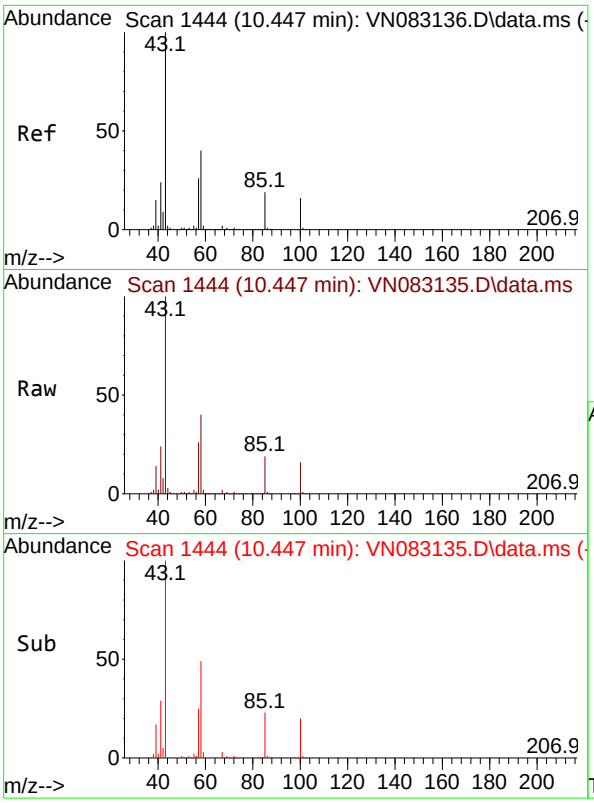


#50
Toluene-d8
Concen: 103.163 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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# 14
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

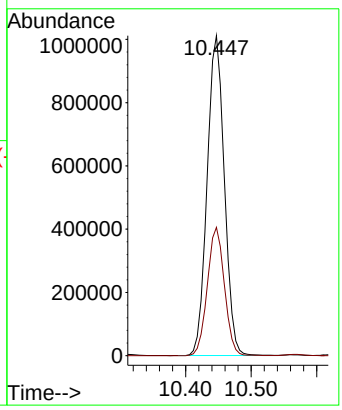
Tgt Ion: 43 Resp: 184634

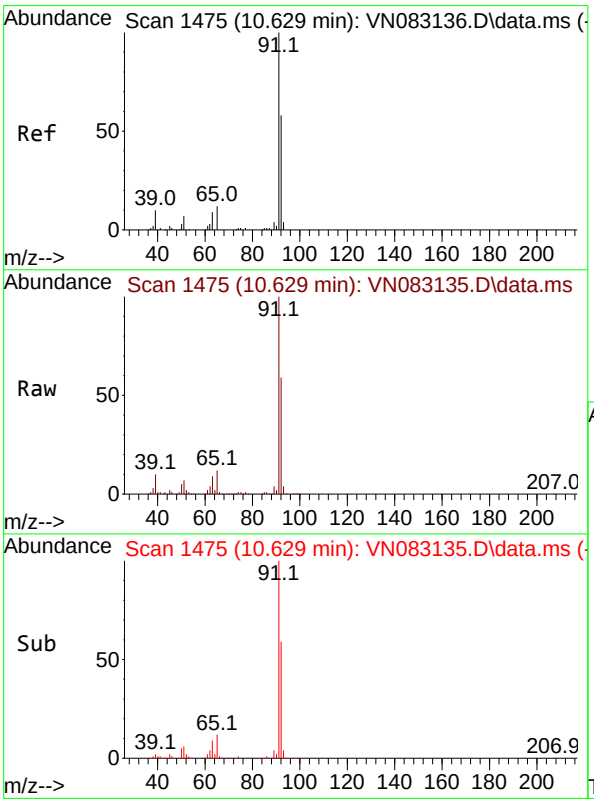
Ion	Ratio	Lower	Upper
43	100		
58	39.7	28.2	42.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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

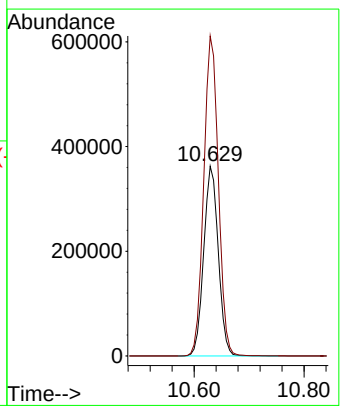


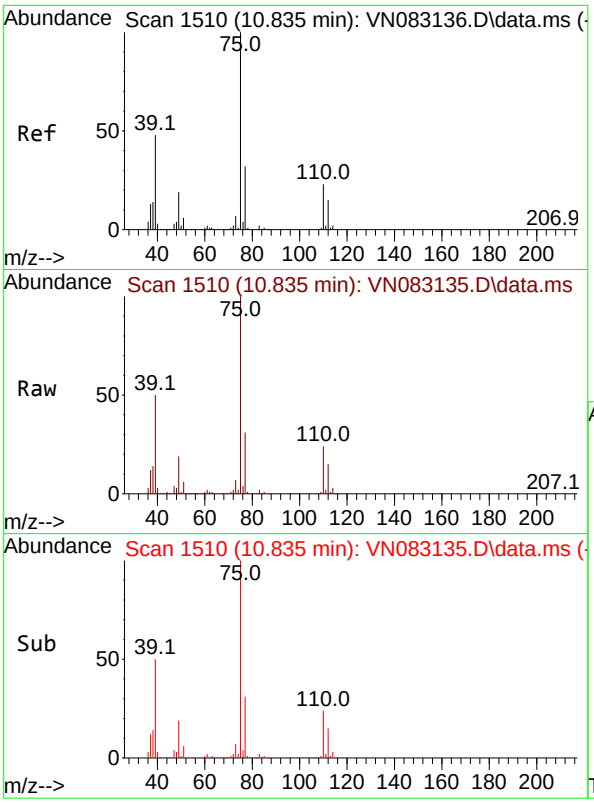


#52
Toluene
Concen: 100.347 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

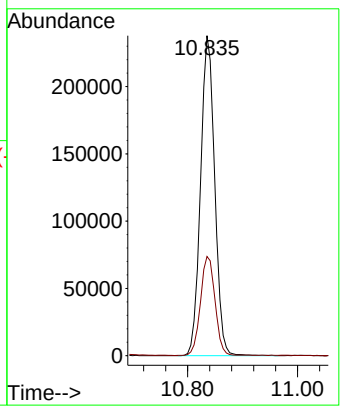
Tgt Ion: 75 Resp: 42482

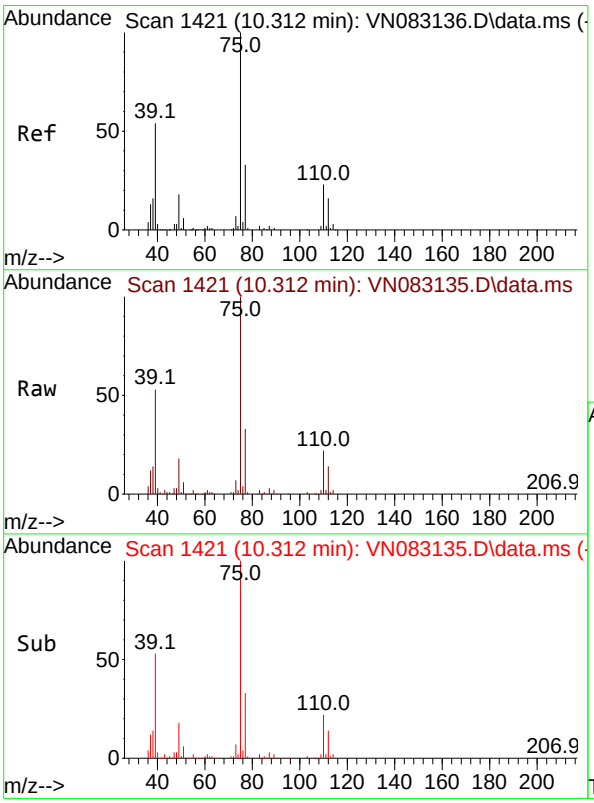
Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.7	38.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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

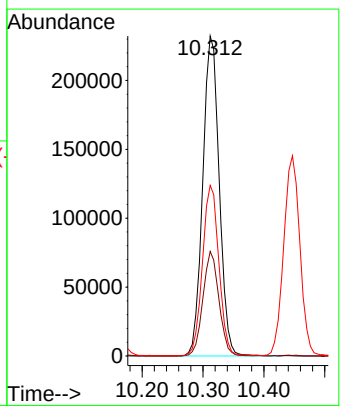


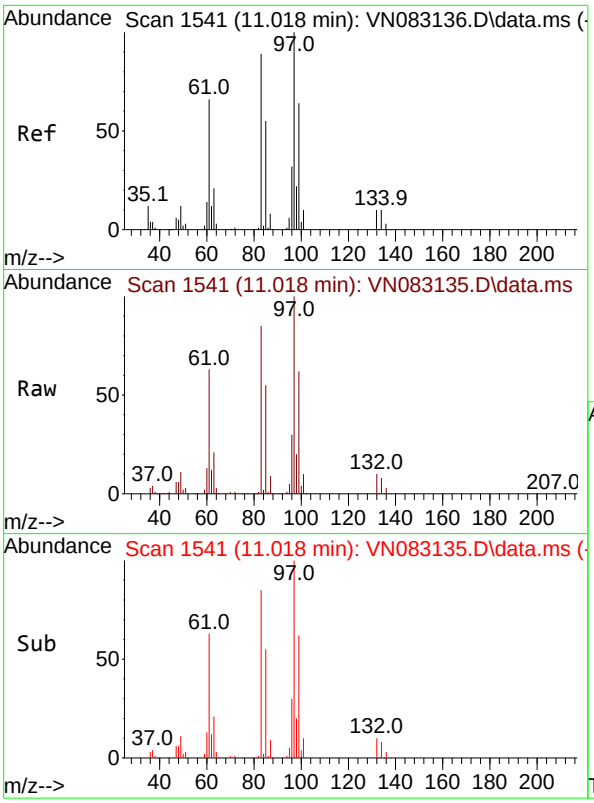


#54
cis-1,3-Dichloropropene
Concen: 99.903 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

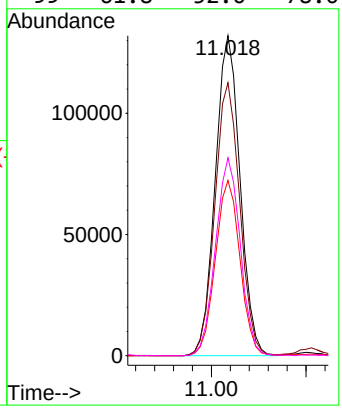




#55
1,1,2-Trichloroethane
Concen: 101.114 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 97 Resp: 24023

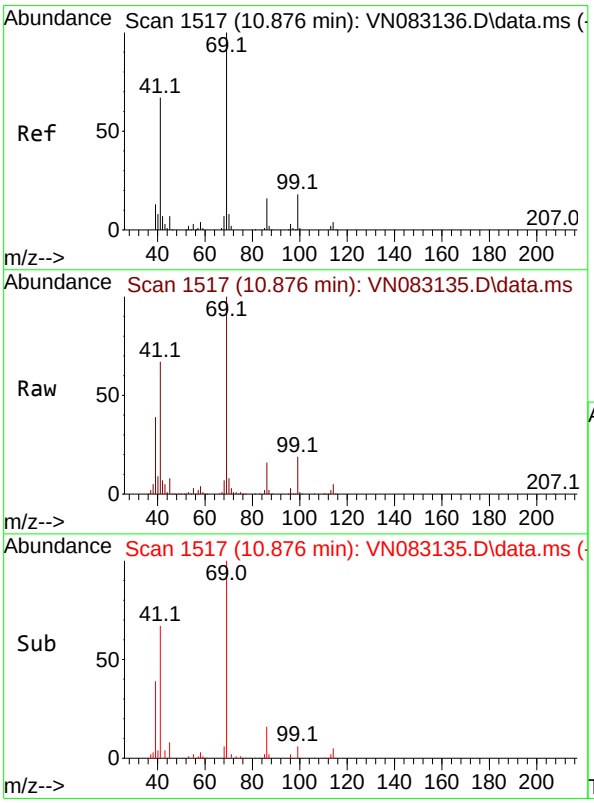
Ion	Ratio	Lower	Upper
97	100		
83	85.3	71.4	107.0
85	54.8	45.8	68.6
99	61.8	52.0	78.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

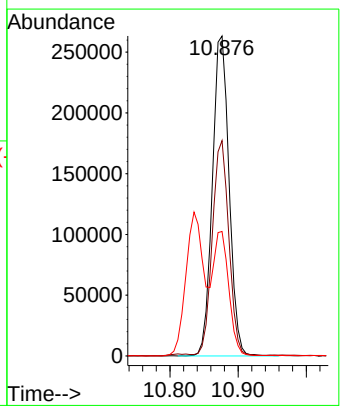
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

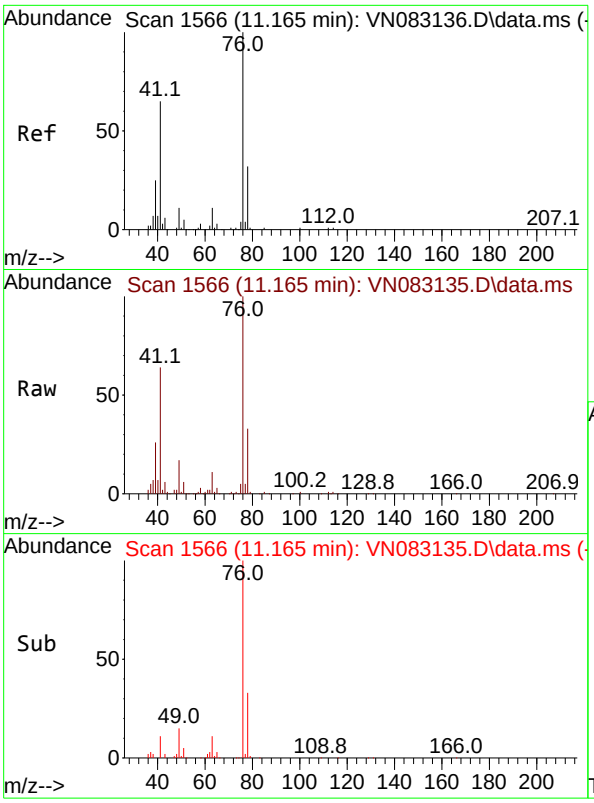


#56
Ethyl methacrylate
Concen: 100.164 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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#

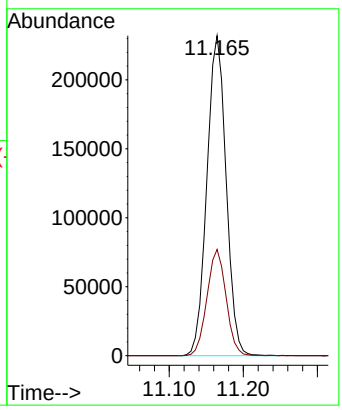




#57
1,3-Dichloropropane
Concen: 98.824 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 76 Resp: 41850

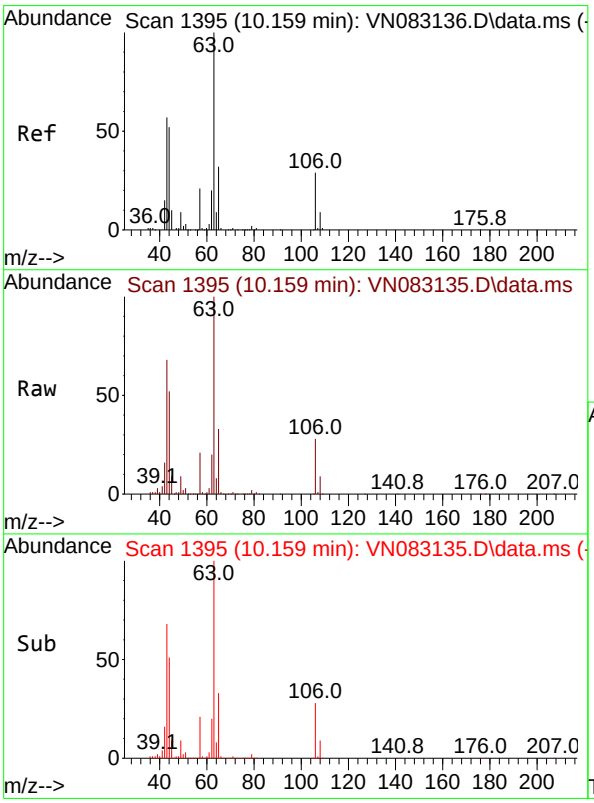
Ion	Ratio	Lower	Upper
76	100		
78	32.9	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

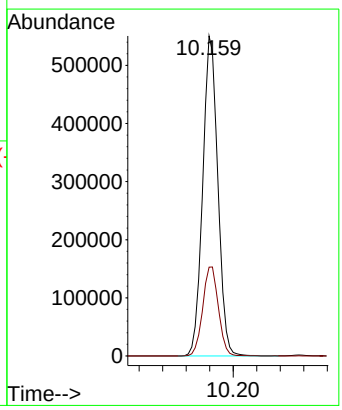
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

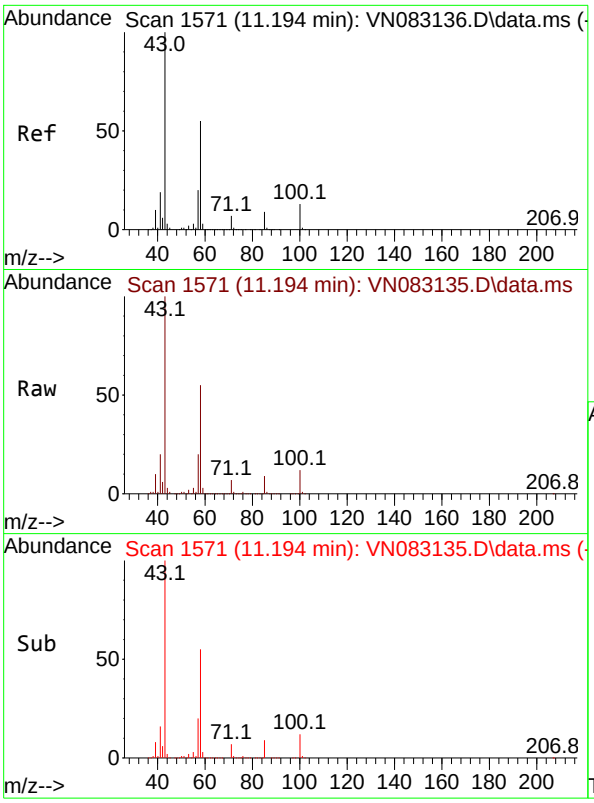


#58
2-Chloroethyl Vinyl ether
Concen: 519.987 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 63 Resp: 984478

Ion	Ratio	Lower	Upper
63	100		
106	28.8	21.4	32.0

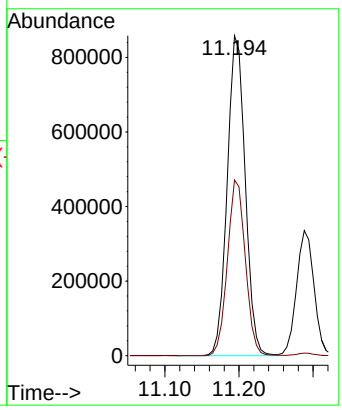




#59
2-Hexanone
Concen: 501.642 ug/l
RT: 11.194 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 43 Resp: 144730

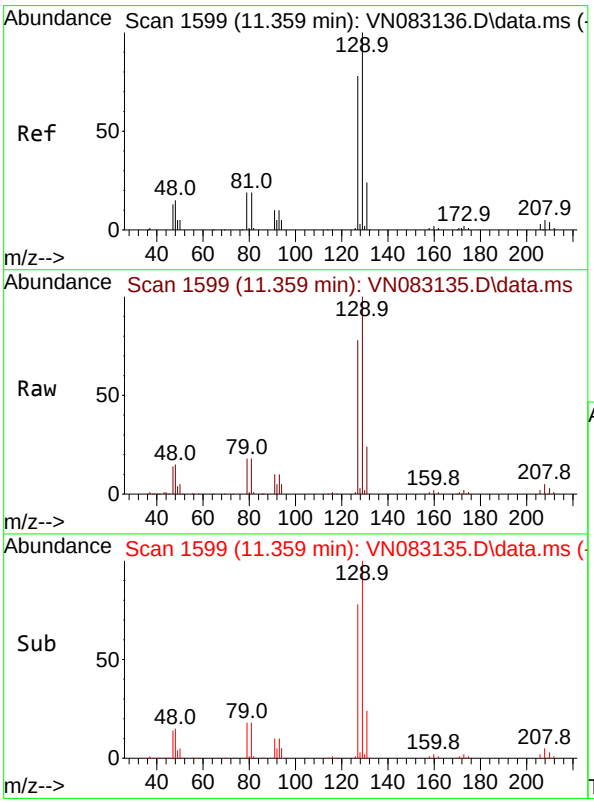
Ion	Ratio	Lower	Upper
43	100		
58	54.7	24.6	73.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

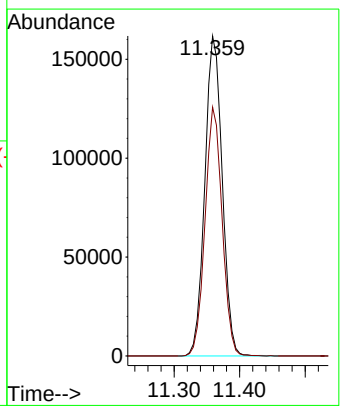
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

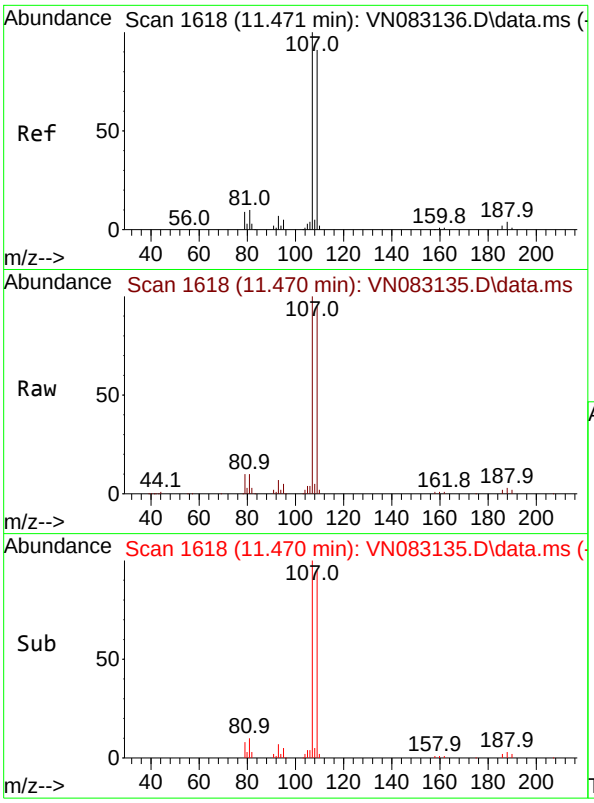


#60
Dibromochloromethane
Concen: 103.914 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

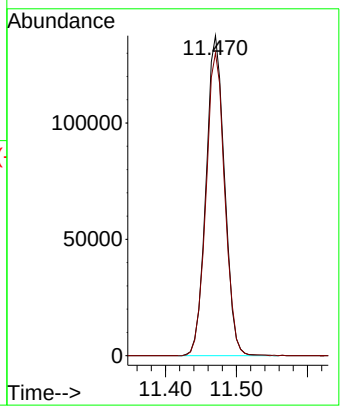
Tgt Ion:107 Resp: 24907

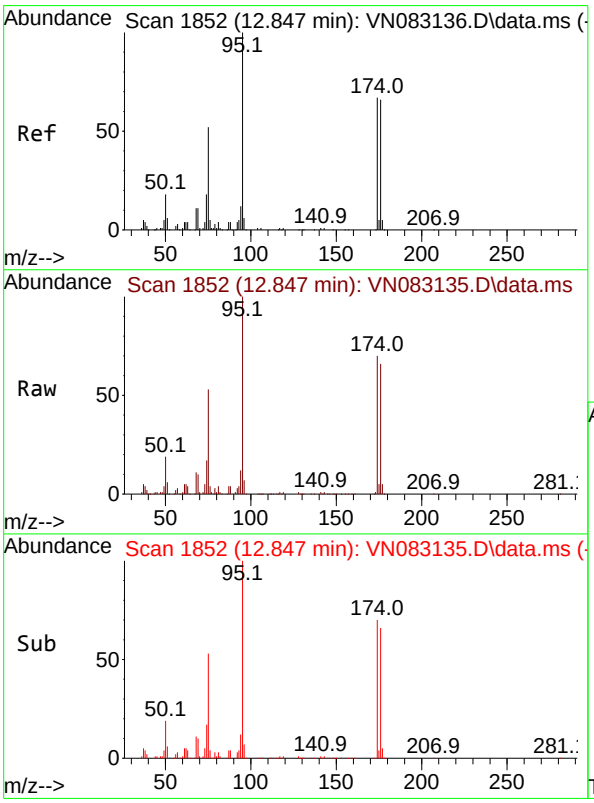
Ion	Ratio	Lower	Upper
107	100		
109	95.5	73.7	110.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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

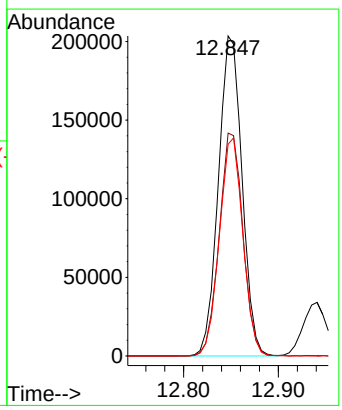


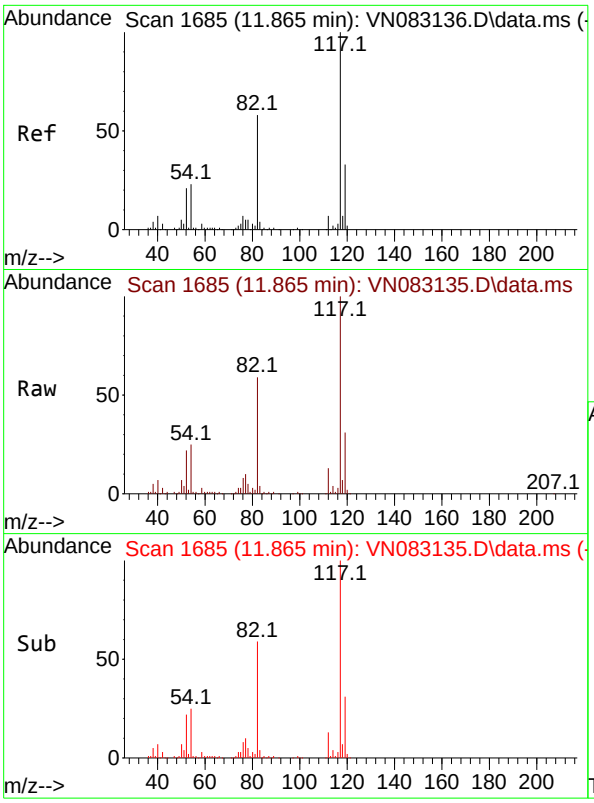


#62
4-Bromofluorobenzene
Concen: 104.234 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

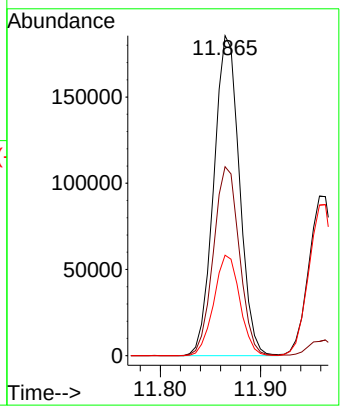
Tgt Ion:117 Resp: 32985

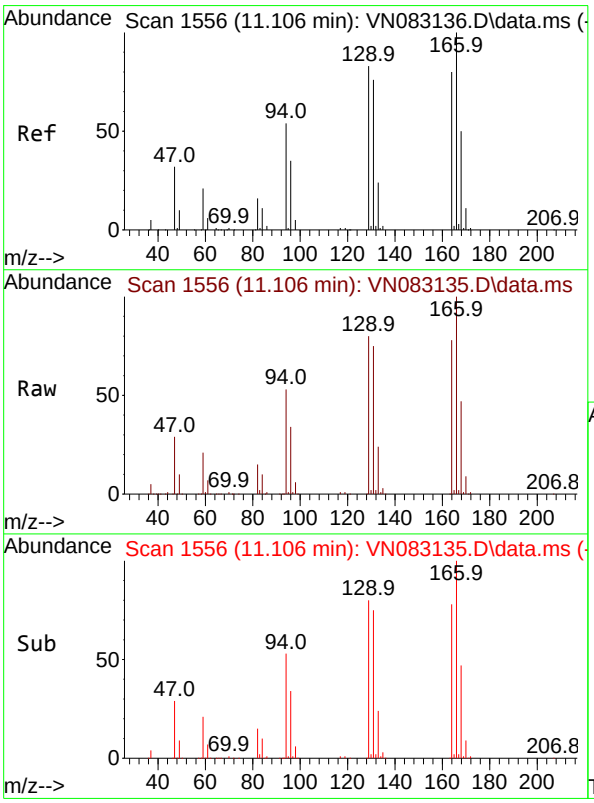
Ion	Ratio	Lower	Upper
117	100		
82	59.0	47.5	71.3
119	31.4	25.6	38.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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

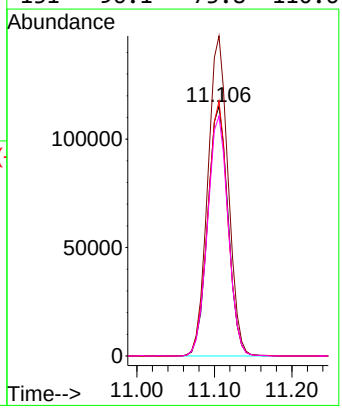


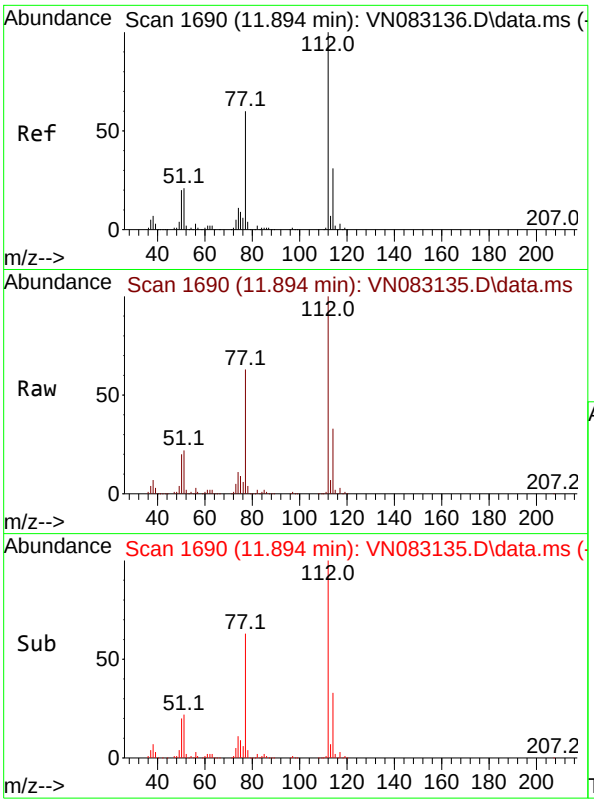


#64
Tetrachloroethene
Concen: 96.284 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

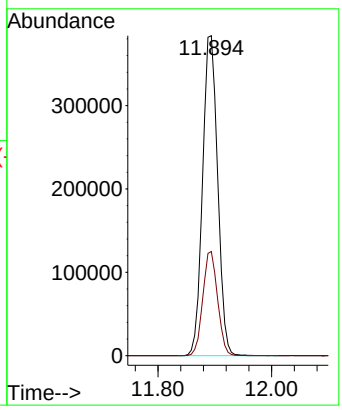




#65
Chlorobenzene
Concen: 96.805 ug/l
RT: 11.894 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:112 Resp: 70563

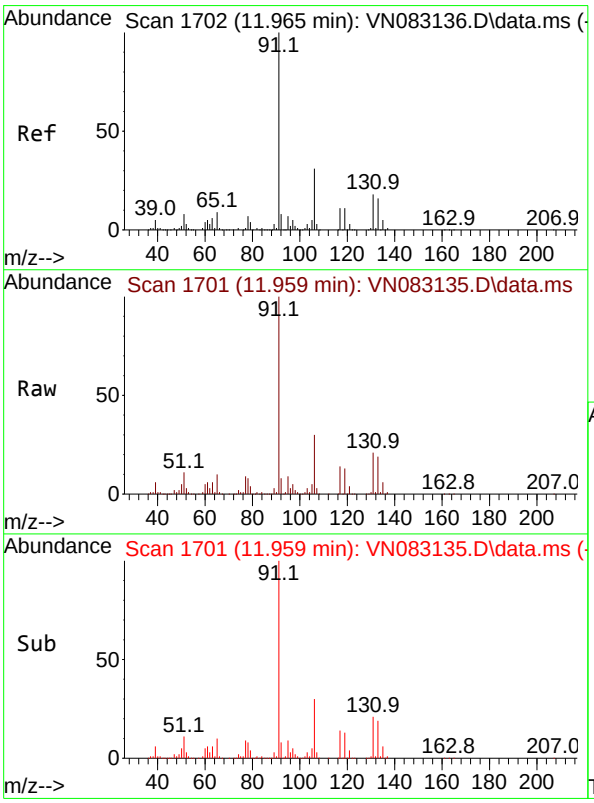
Ion	Ratio	Lower	Upper
112	100		
114	32.5	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

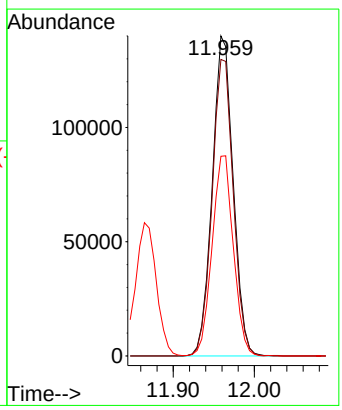
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

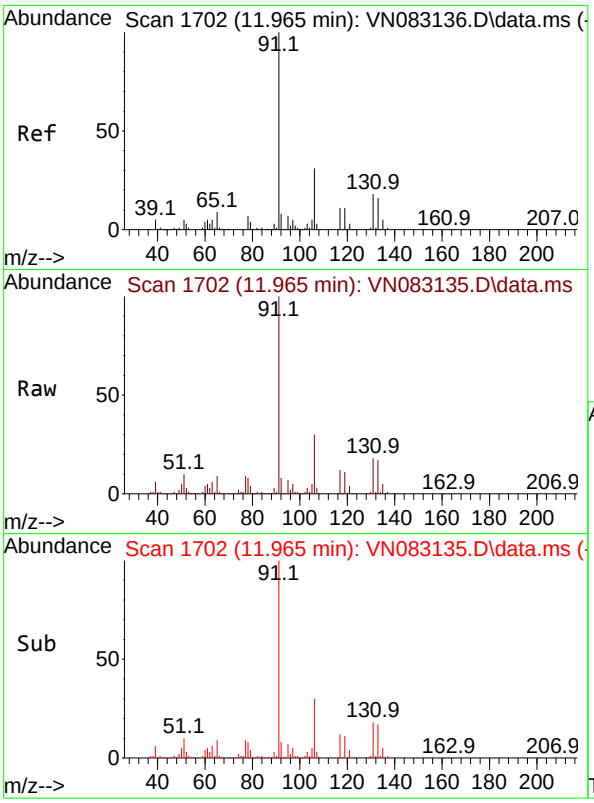


#66
1,1,1,2-Tetrachloroethane
Concen: 97.546 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

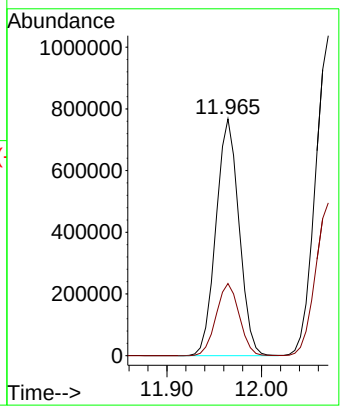
Tgt Ion: 91 Resp: 129763

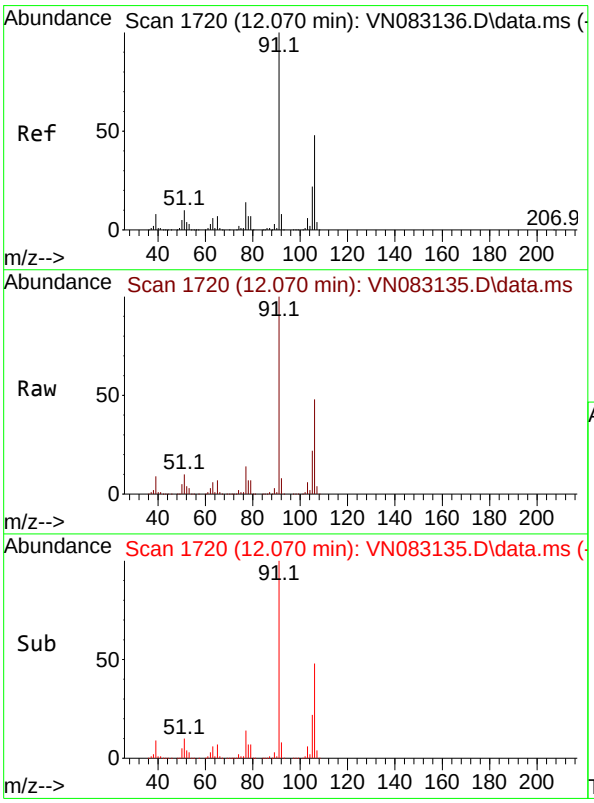
Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.0	36.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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

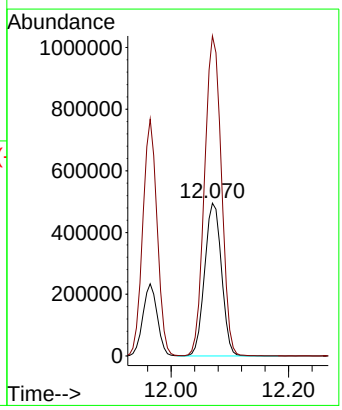


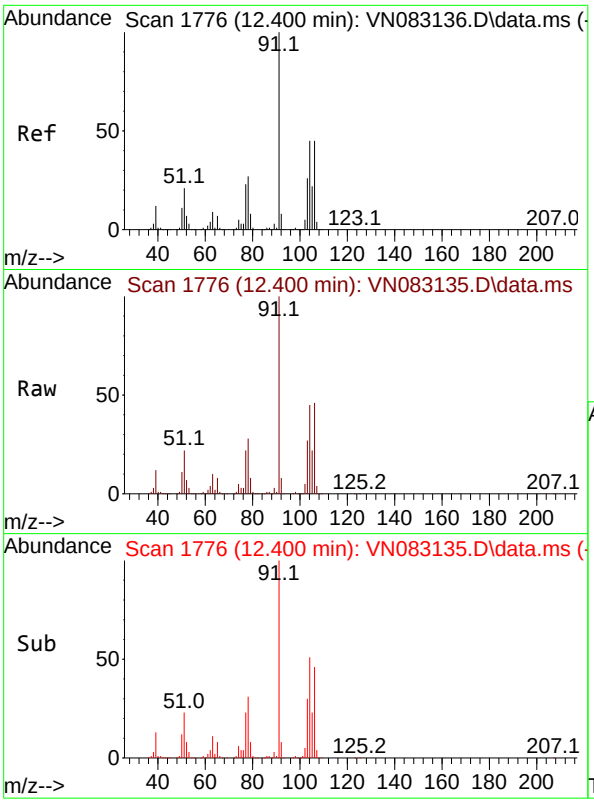


#68
m/p-Xylenes
Concen: 196.641 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

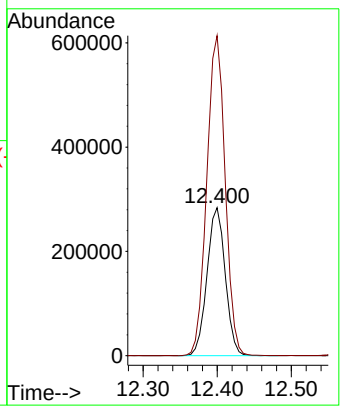
Tgt Ion:106 Resp: 48467

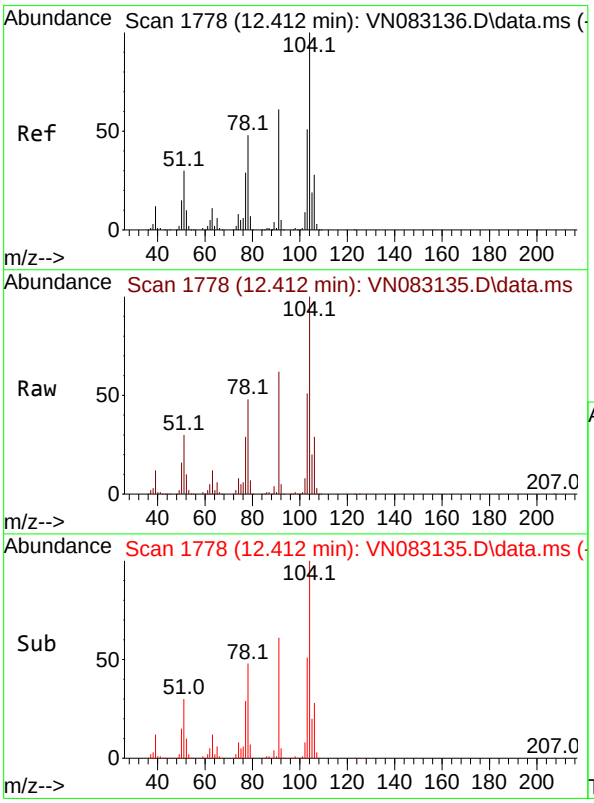
Ion	Ratio	Lower	Upper
106	100		
91	218.1	111.3	333.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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

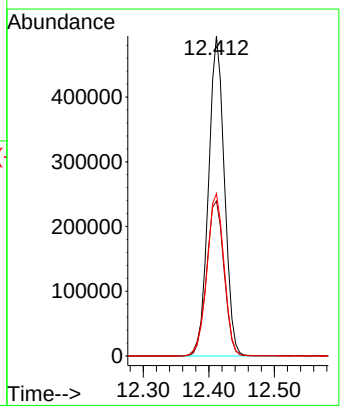


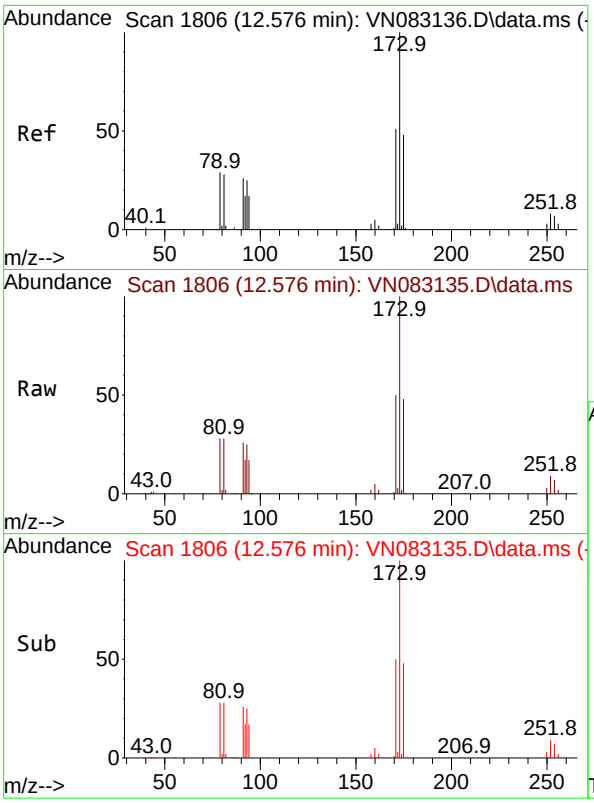


#70
Styrene
Concen: 100.261 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

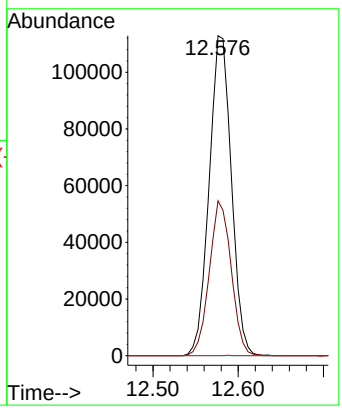




#71
Bromoform
Concen: 104.942 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:173 Resp: 20438

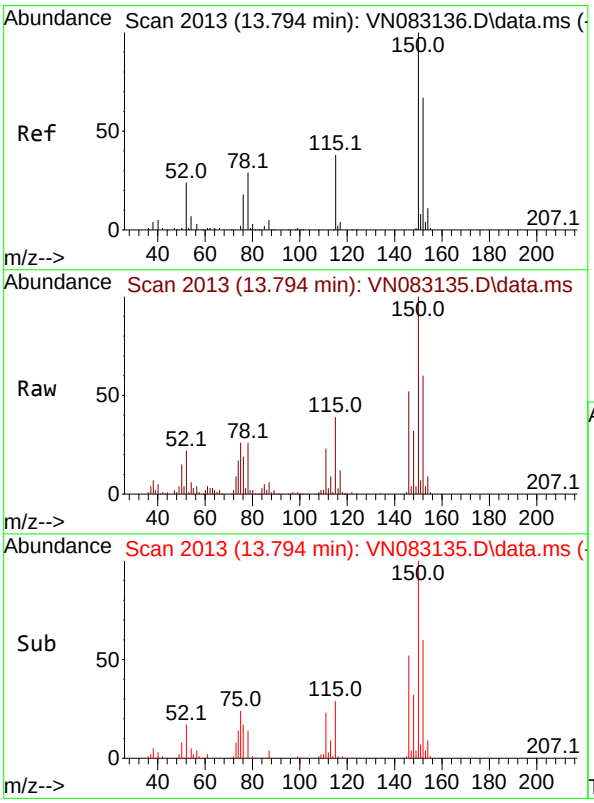
Ion	Ratio	Lower	Upper
173	100		
175	47.6	24.0	72.0
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

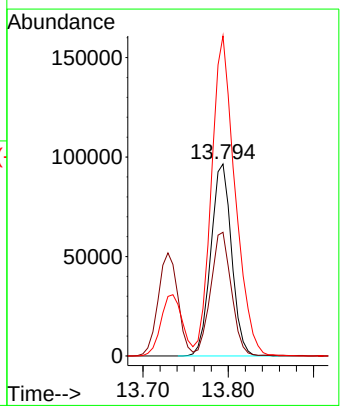
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

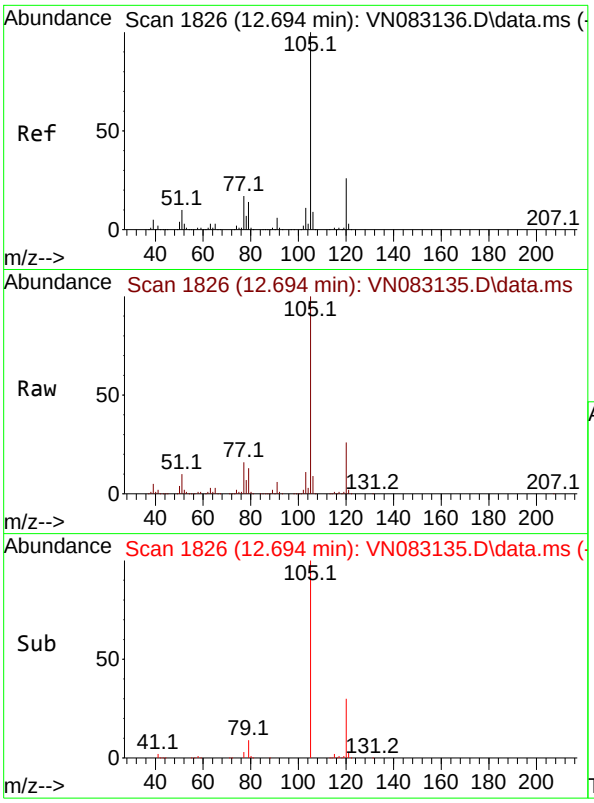


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

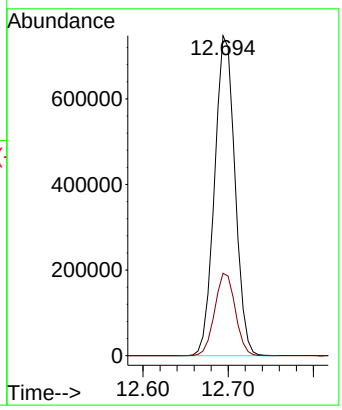
Tgt Ion:105 Resp: 124484

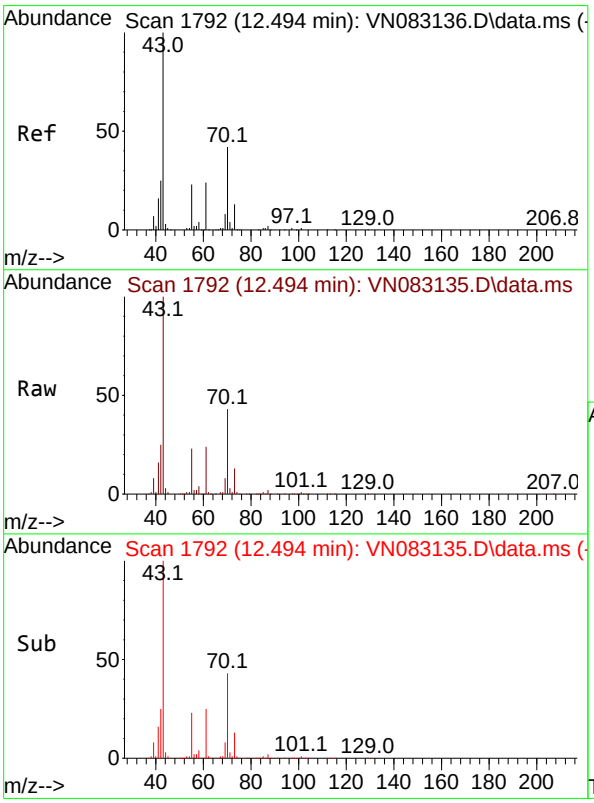
Ion	Ratio	Lower	Upper
105	100		
120	25.9	12.9	38.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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

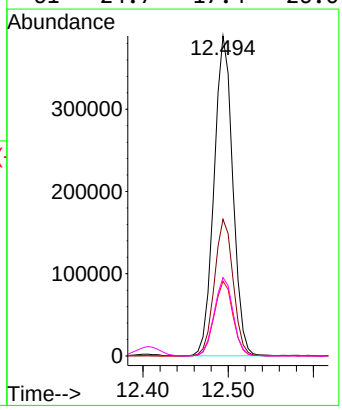


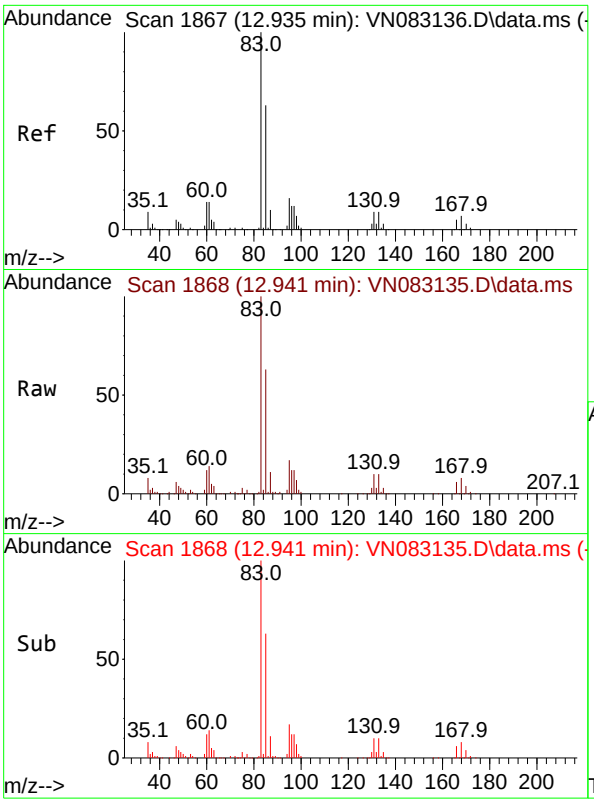


#74
N-amyl acetate
Concen: 89.282 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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# 1
Delta R.T. 0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

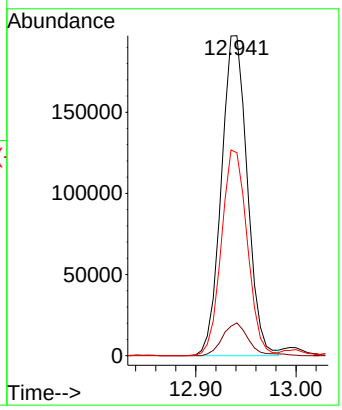
Tgt Ion: 83 Resp: 35334

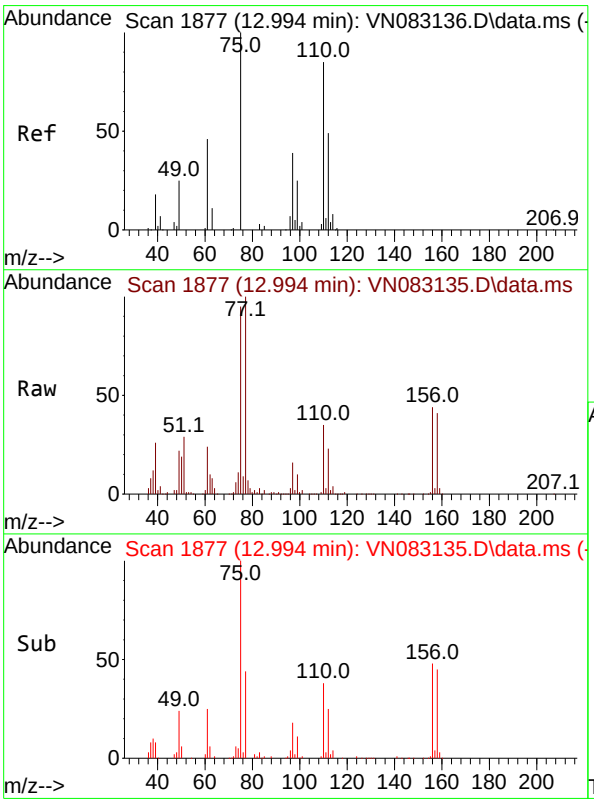
Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.0	14.9
85	64.2	31.9	95.7

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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

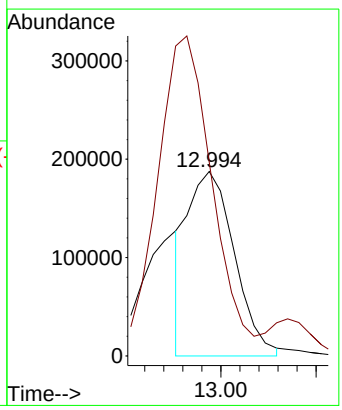


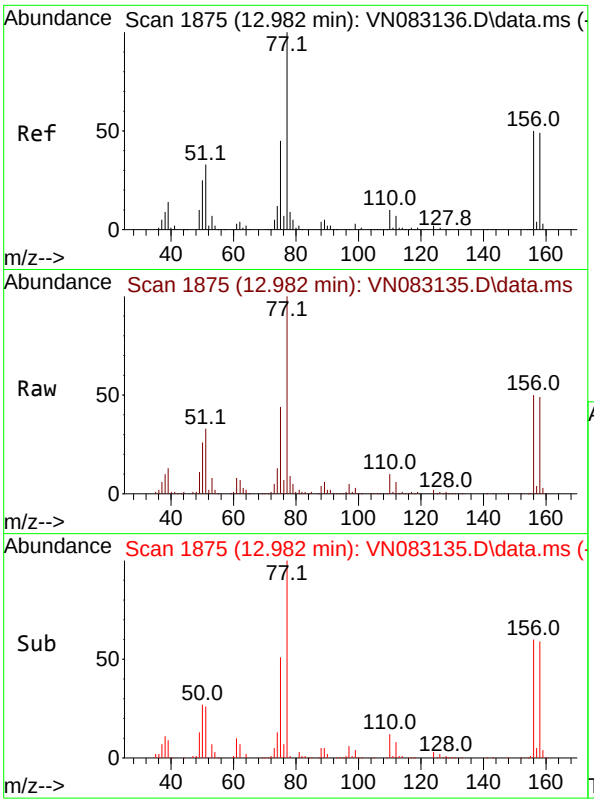


#76
1,2,3-Trichloropropane
Concen: 89.478 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 75 Resp: 320302

Ion	Ratio	Lower	Upper
75	100		
77	203.7	110.9	332.6

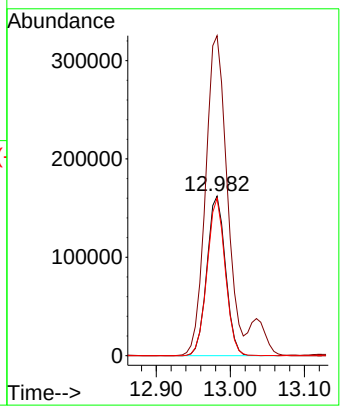




#77
Bromobenzene
Concen: 93.431 ug/l
RT: 12.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:156 Resp: 28267

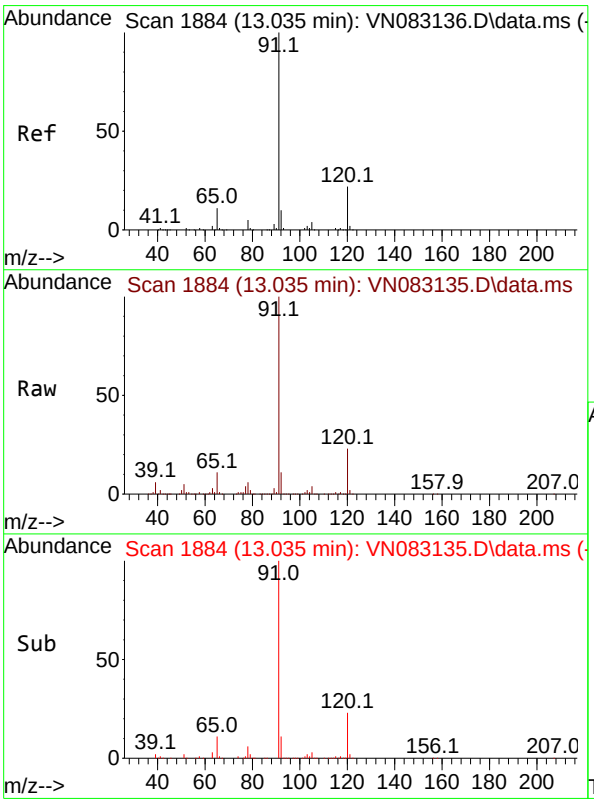
Ion	Ratio	Lower	Upper
156	100		
77	230.9	111.3	333.8
158	96.4	48.3	144.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

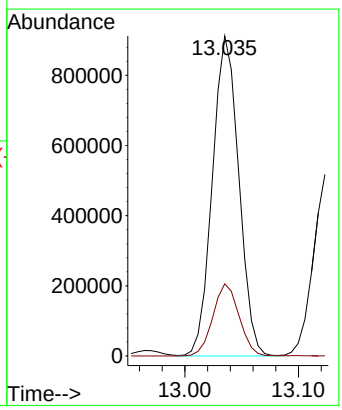
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

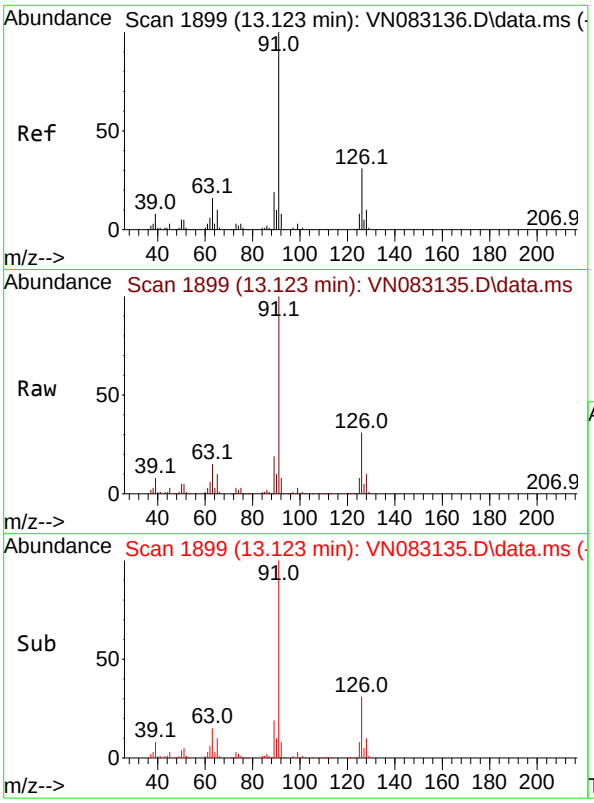


#78
n-propylbenzene
Concen: 93.979 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 91 Resp: 1473868

Ion	Ratio	Lower	Upper
91	100		
120	22.3	10.9	32.9

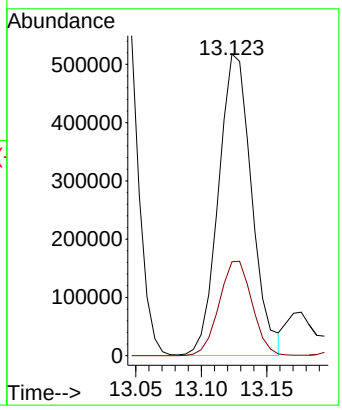




#79
2-Chlorotoluene
Concen: 91.785 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 91 Resp: 91261

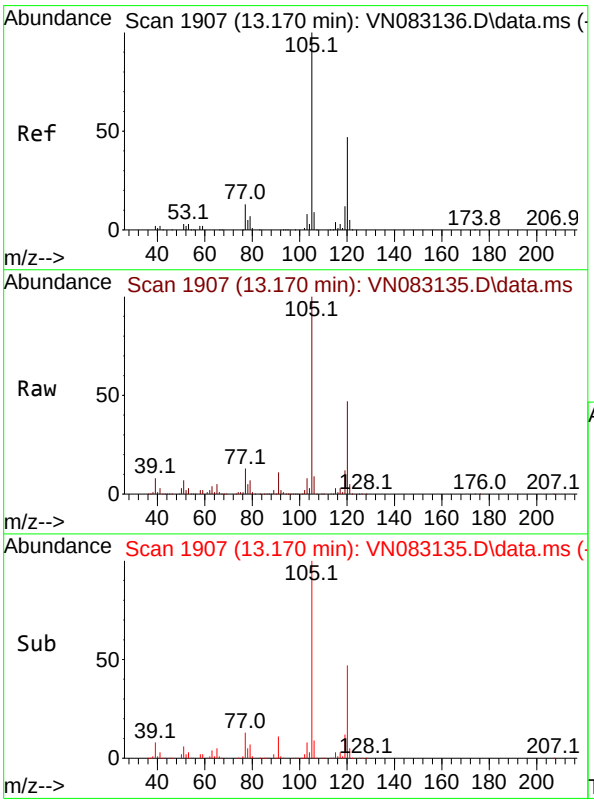
Ion	Ratio	Lower	Upper
91	100		
126	31.1	16.2	48.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

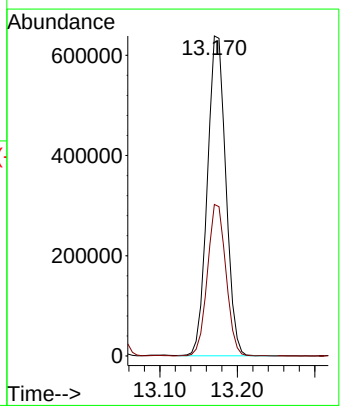
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

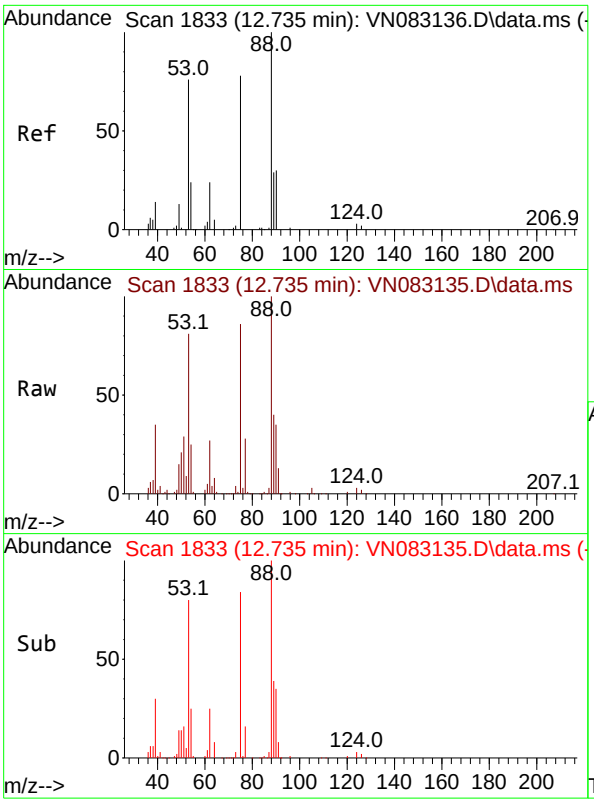


#80
1,3,5-Trimethylbenzene
Concen: 92.690 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

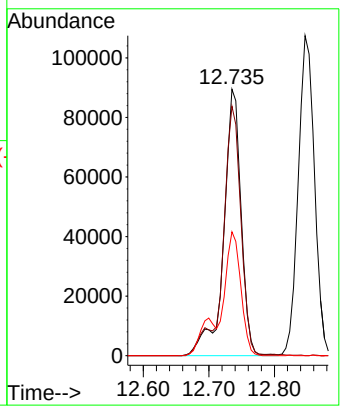
Tgt Ion: 75 Resp: 16532

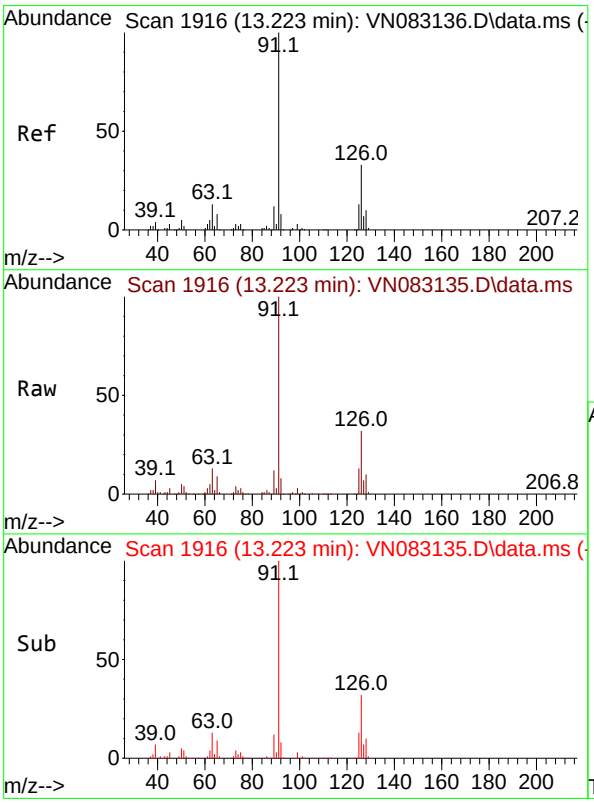
Ion	Ratio	Lower	Upper
75	100		
53	96.5	88.4	132.6
89	41.9	36.3	54.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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

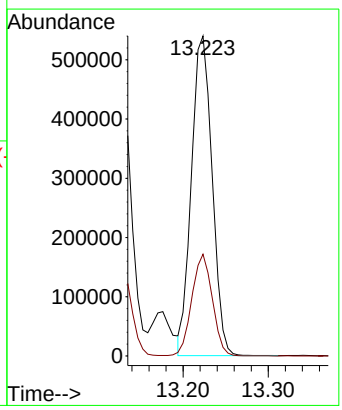


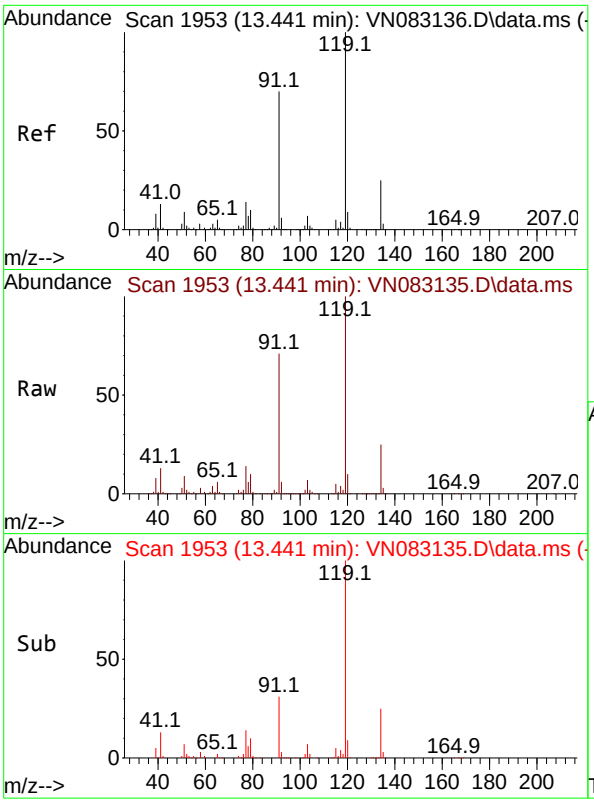


#82
4-Chlorotoluene
Concen: 91.381 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 91 Resp: 911384

Ion	Ratio	Lower	Upper
91	100		
126	31.4	16.2	48.6

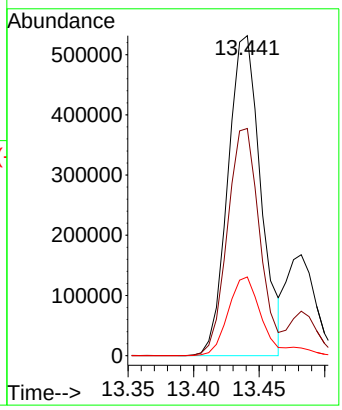




#83
tert-Butylbenzene
Concen: 91.918 ug/l
RT: 13.441 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:119 Resp: 92819

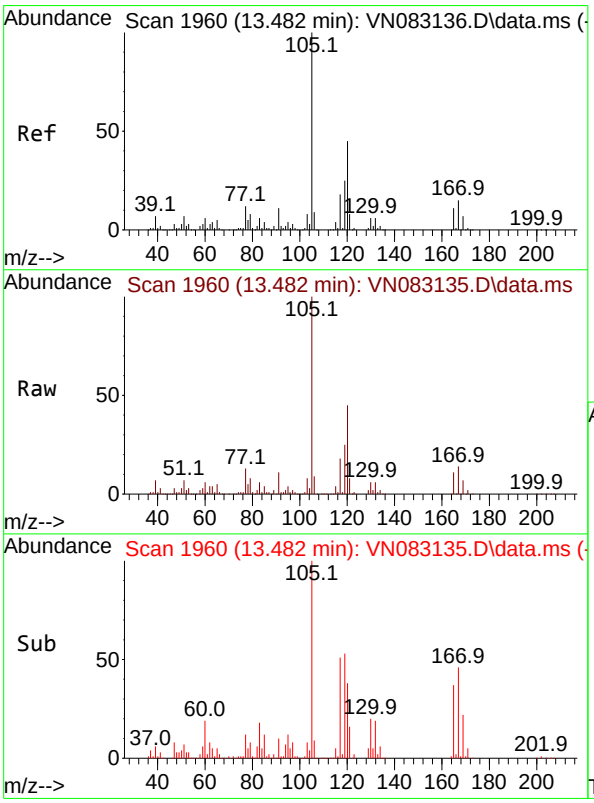
Ion	Ratio	Lower	Upper
119	100		
91	69.3	35.0	105.1
134	26.1	13.3	39.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

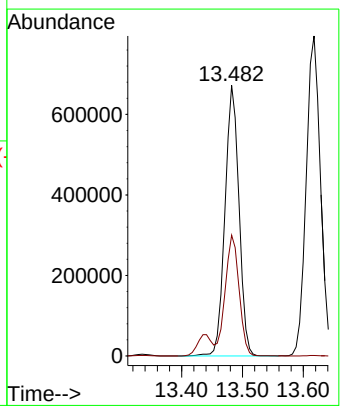
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

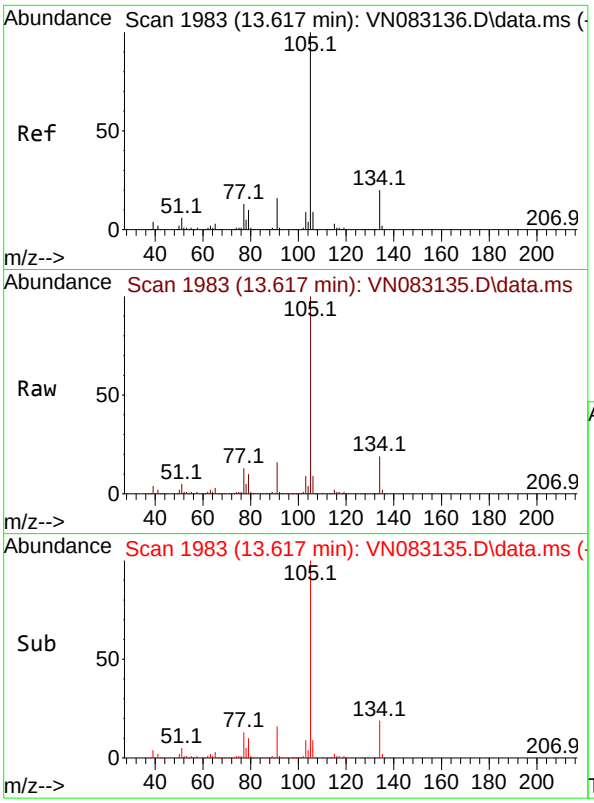


#84
1,2,4-Trimethylbenzene
Concen: 93.675 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

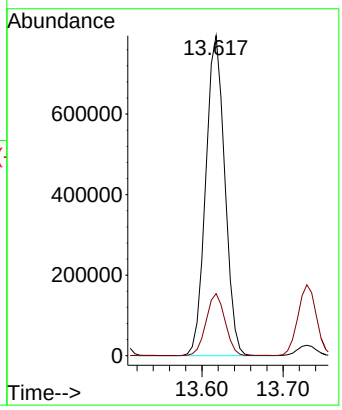
Tgt Ion:105 Resp: 129490

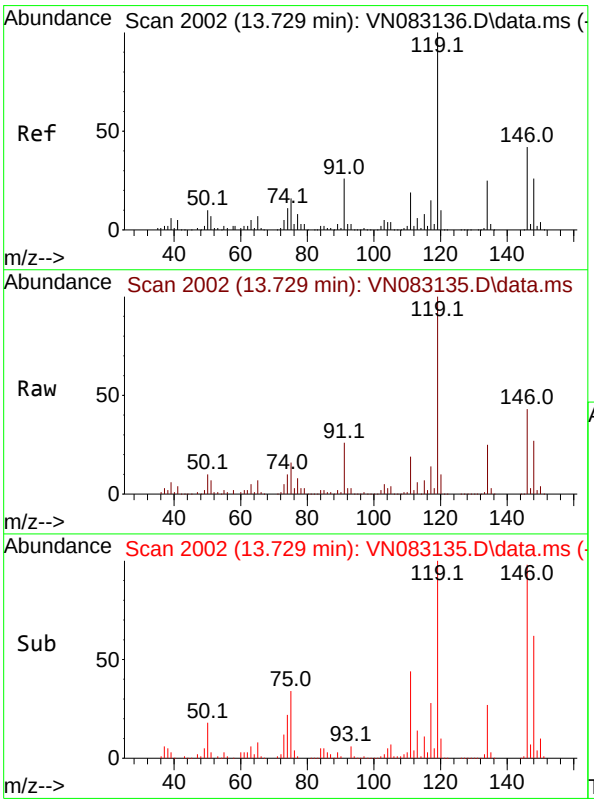
Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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

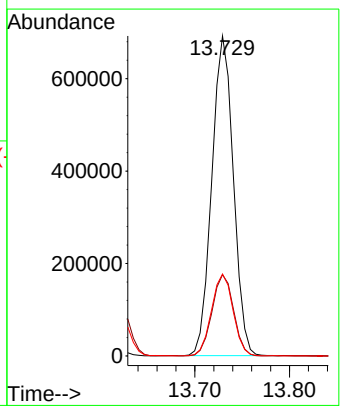


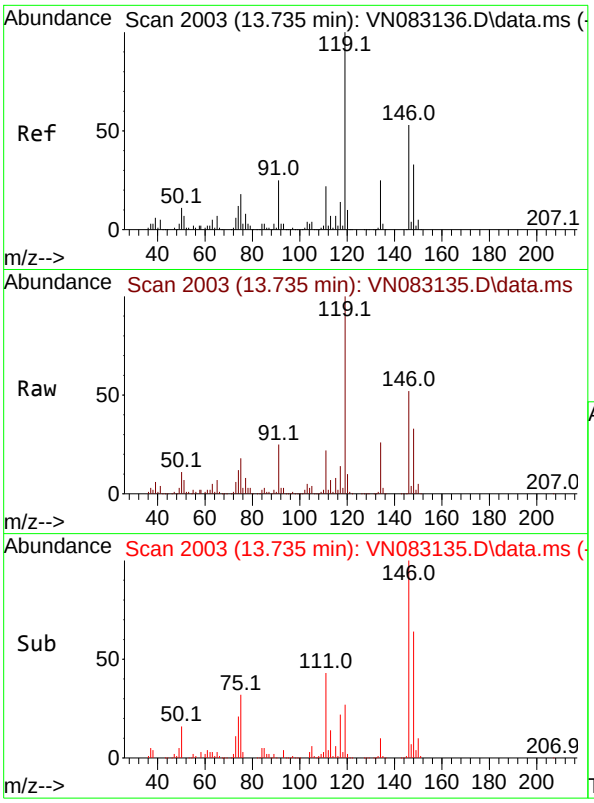


#86
p-Isopropyltoluene
Concen: 96.022 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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# 2
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

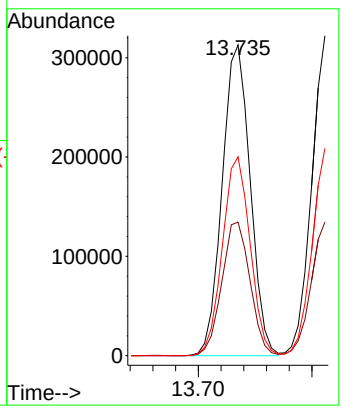
Tgt Ion:146 Resp: 53519

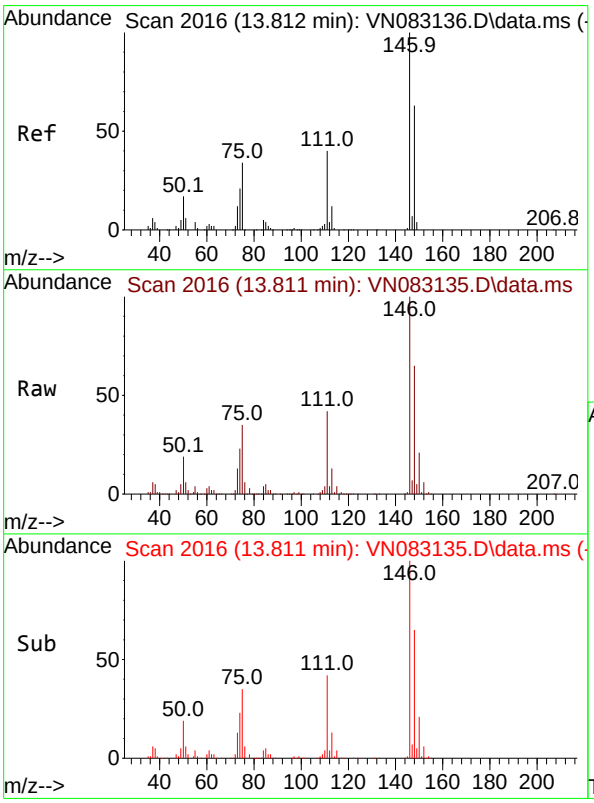
Ion	Ratio	Lower	Upper
146	100		
111	43.5	20.6	61.9
148	63.6	31.8	95.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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

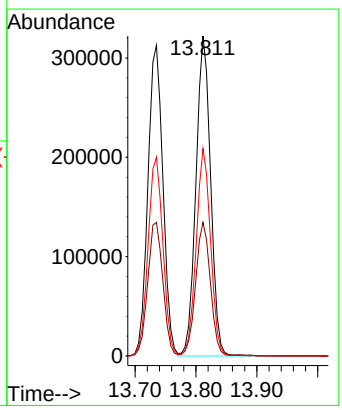


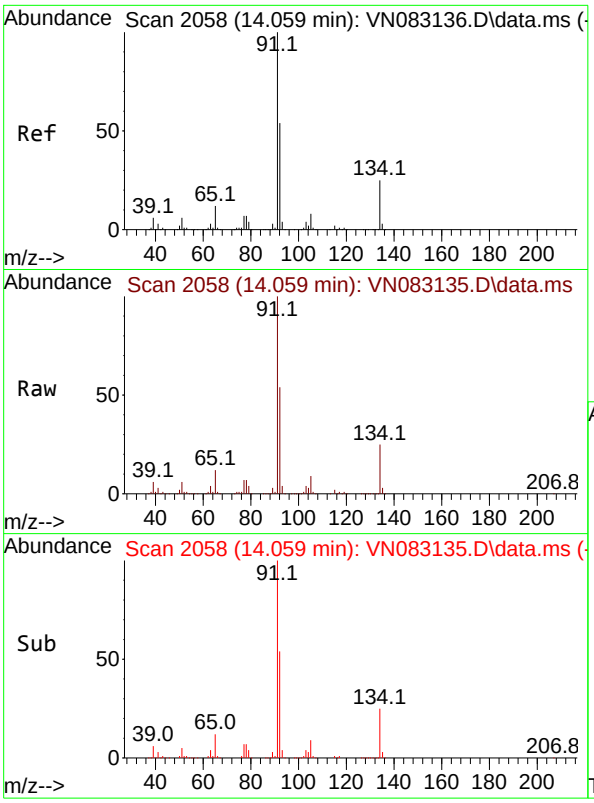


#88
1,4-Dichlorobenzene
Concen: 93.900 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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# 2
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

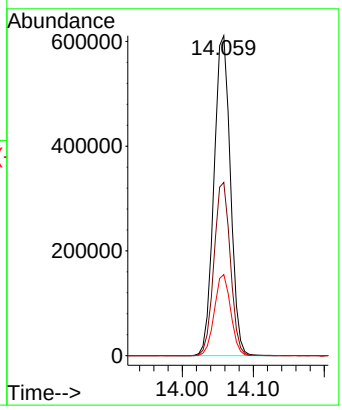
Tgt Ion: 91 Resp: 98048

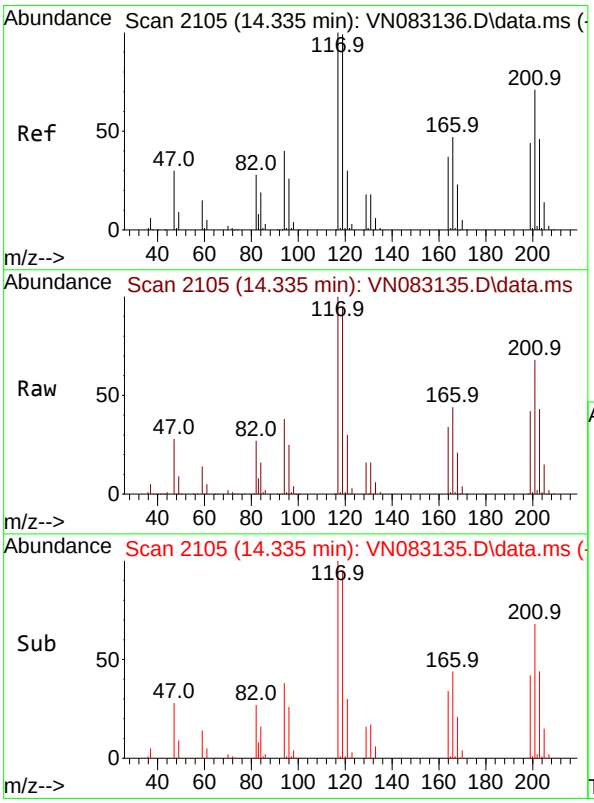
Ion	Ratio	Lower	Upper
91	100		
92	53.8	26.1	78.3
134	25.2	12.1	36.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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

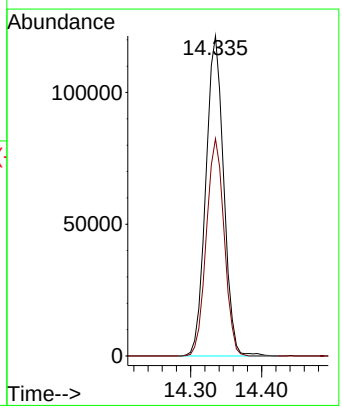


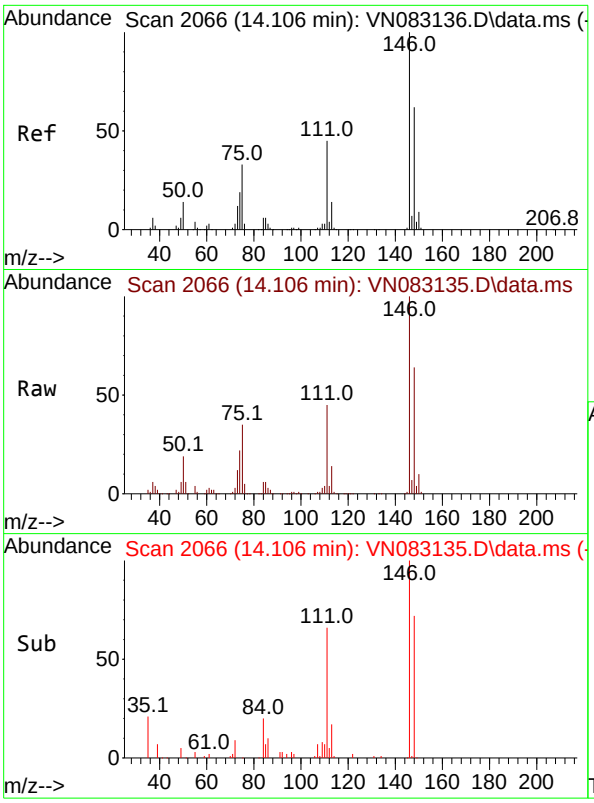


#90
Hexachloroethane
Concen: 96.320 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:117 Resp: 211710

Ion	Ratio	Lower	Upper
117	100		
201	67.7	35.8	107.3

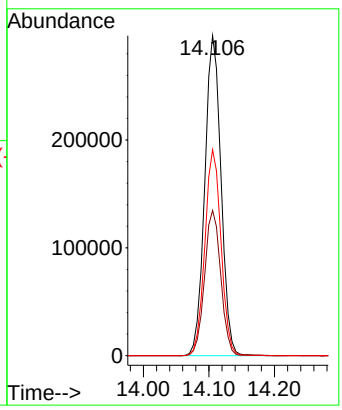




#91
1,2-Dichlorobenzene
Concen: 92.863 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:146 Resp: 51158

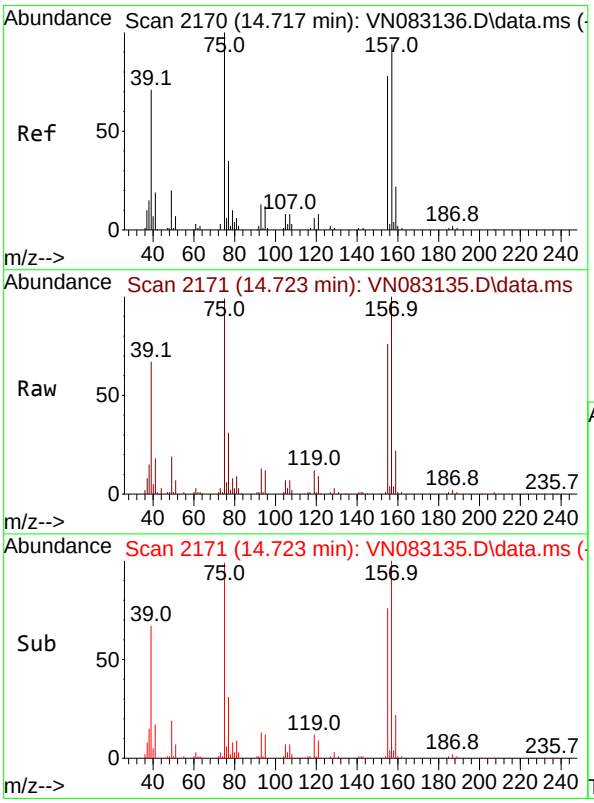
Ion	Ratio	Lower	Upper
146	100		
111	45.4	21.4	64.2
148	63.9	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

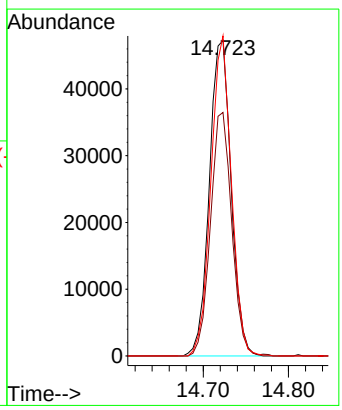
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

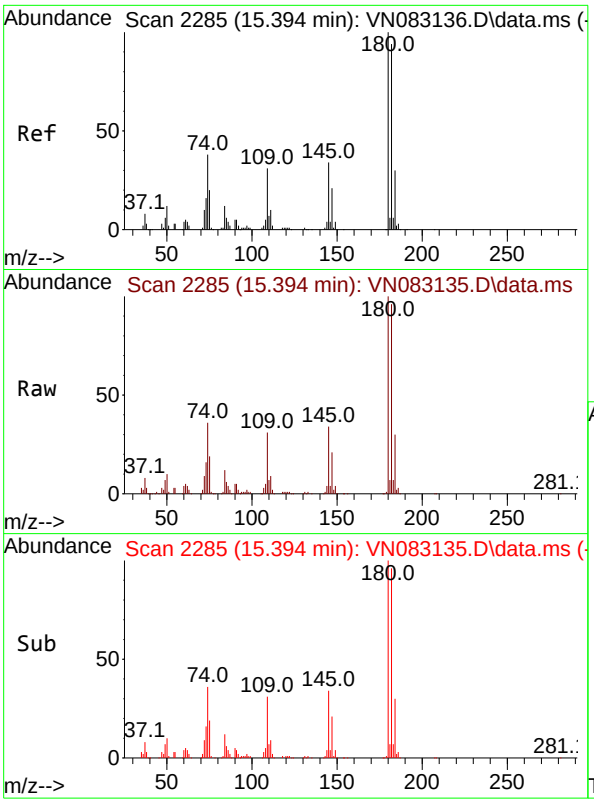


#92
1,2-Dibromo-3-Chloropropane
Concen: 89.788 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

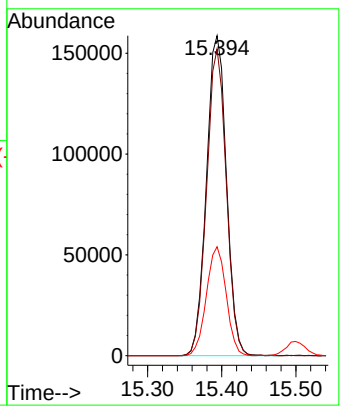




#93
1,2,4-Trichlorobenzene
Concen: 96.456 ug/l
RT: 15.394 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:180 Resp: 29769

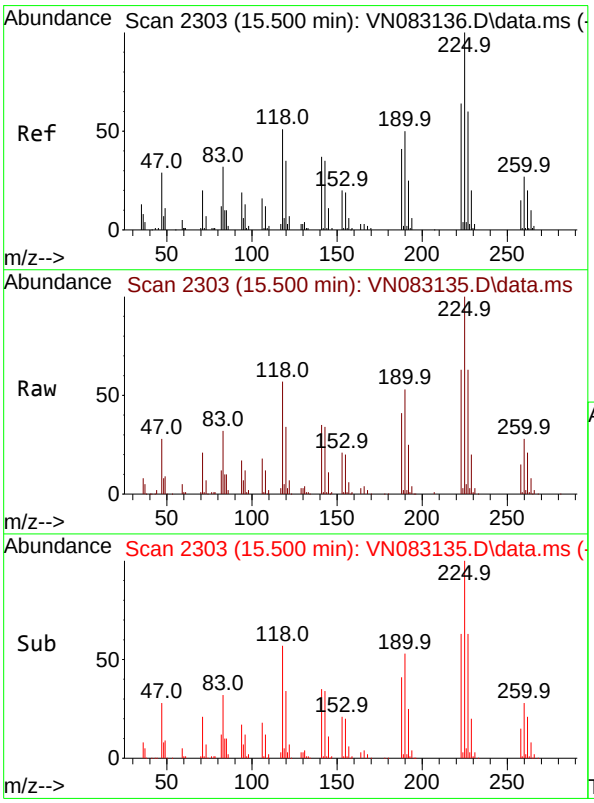
Ion	Ratio	Lower	Upper
180	100		
182	94.1	47.3	141.8
145	33.6	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

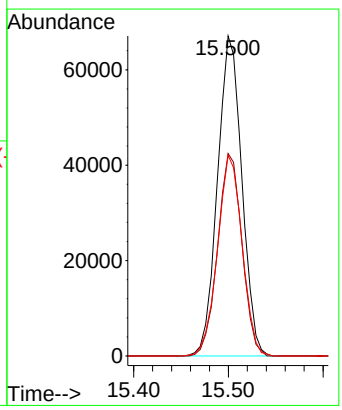
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

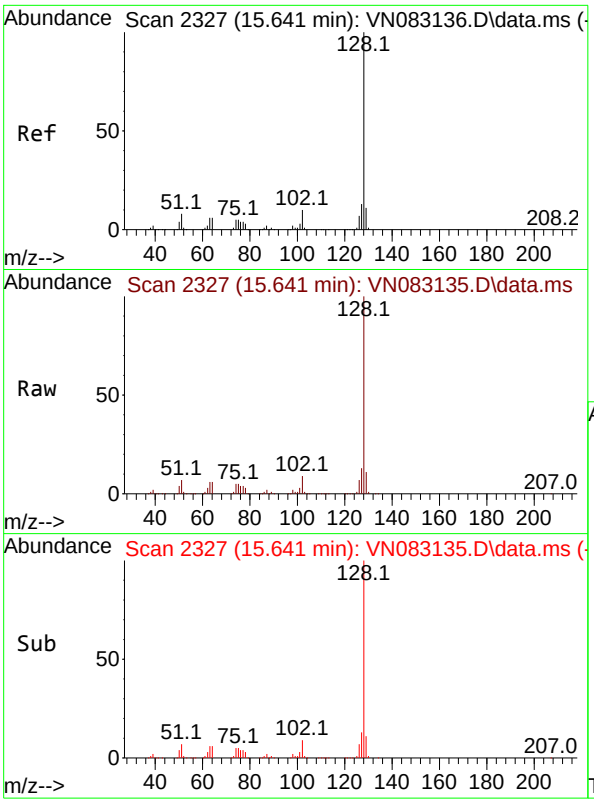


#94
Hexachlorobutadiene
Concen: 87.268 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

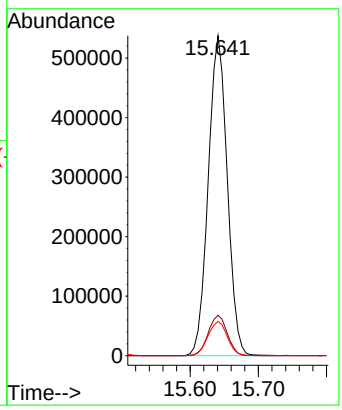




#95
Naphthalene
Concen: 95.391 ug/l
RT: 15.641 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:128 Resp: 104286

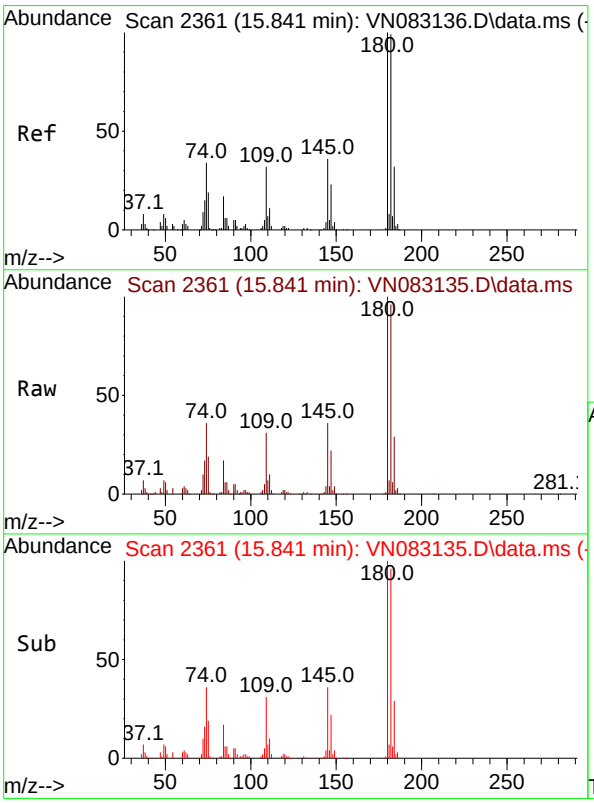
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.6	16.0
129	10.9	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

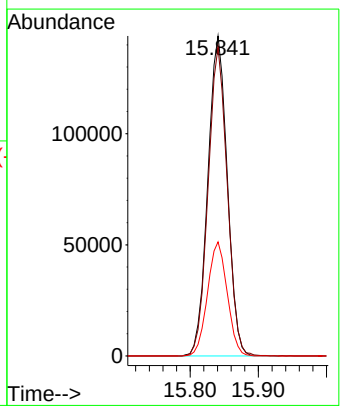
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#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



ICAL Form

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

ICAL Form

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

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

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	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

ICAL Form

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

ICAL Form

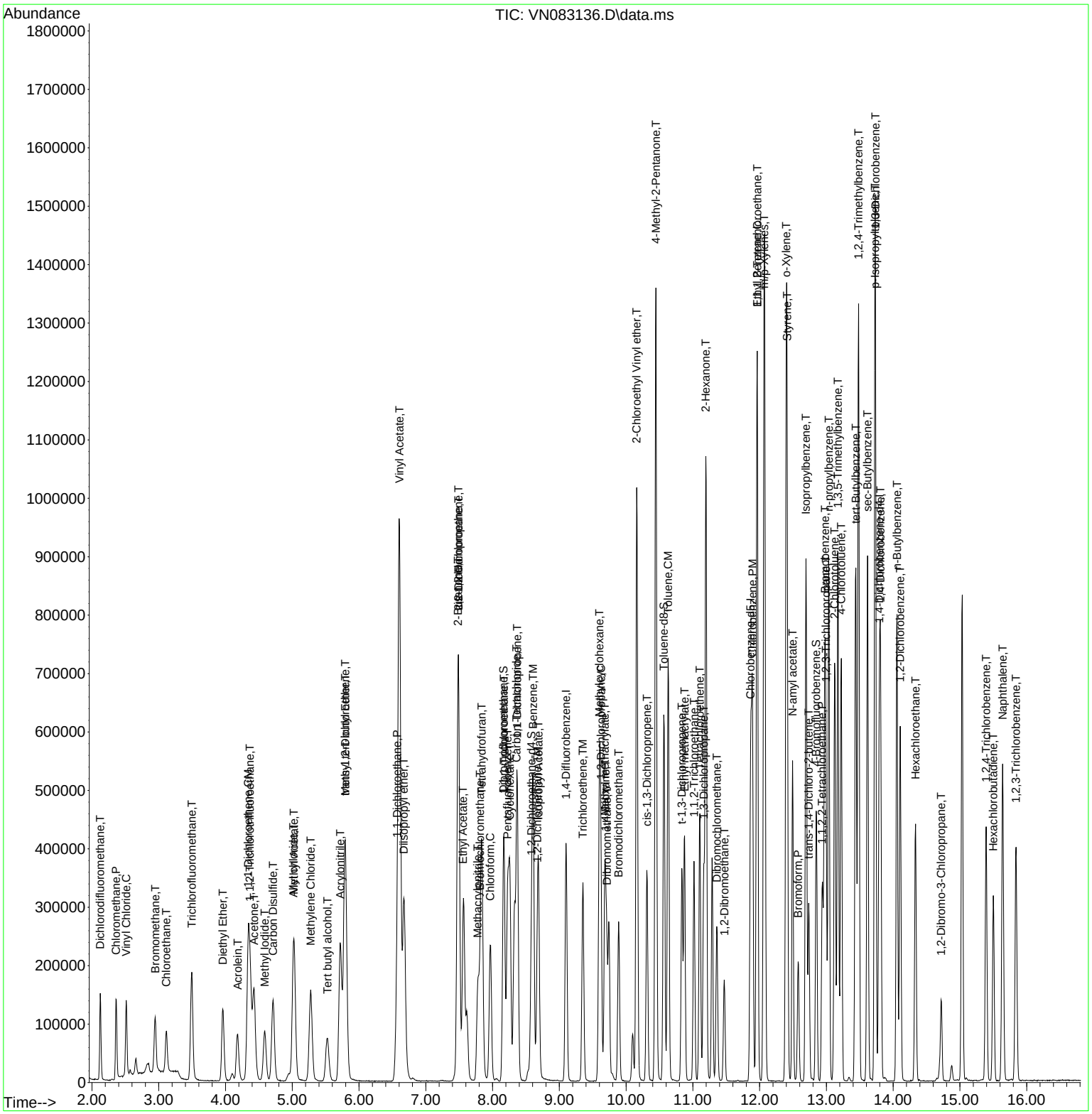
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083136.D
Acq On : 07 Aug 2024 10:58
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

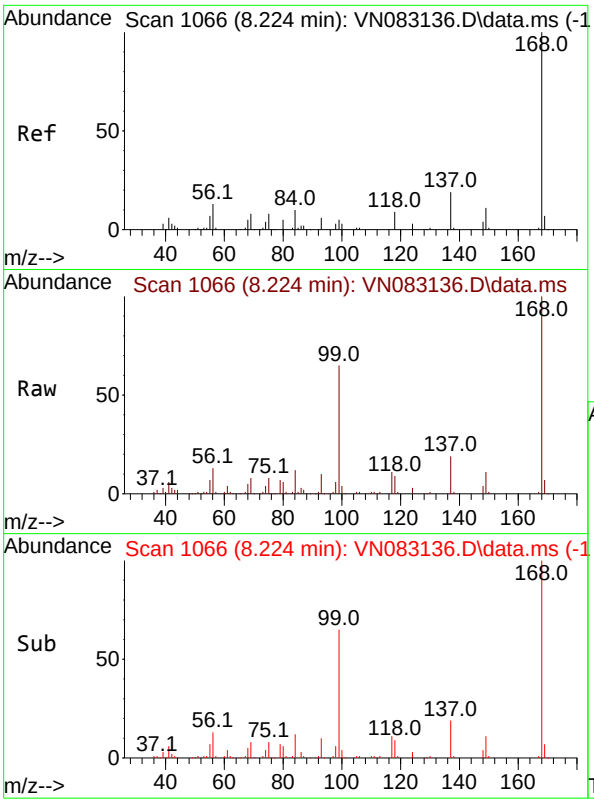
Quant Time: Aug 08 06:15:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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

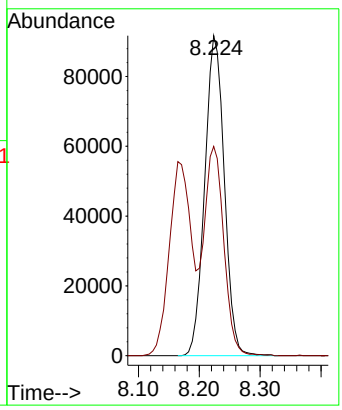




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:168 Resp: 20491

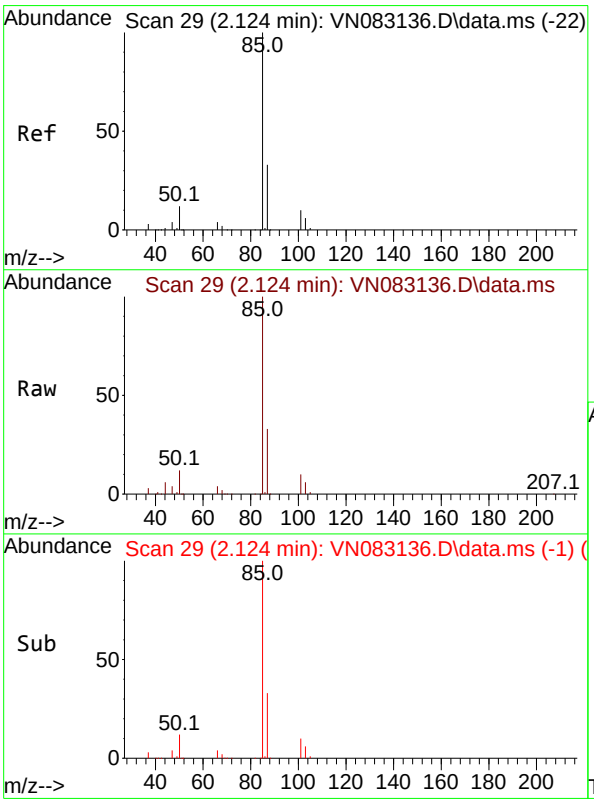
Ion	Ratio	Lower	Upper
168	100		
99	65.4	48.2	72.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

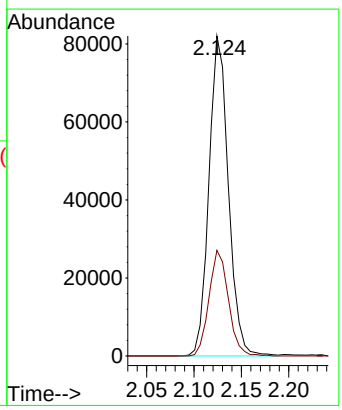
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

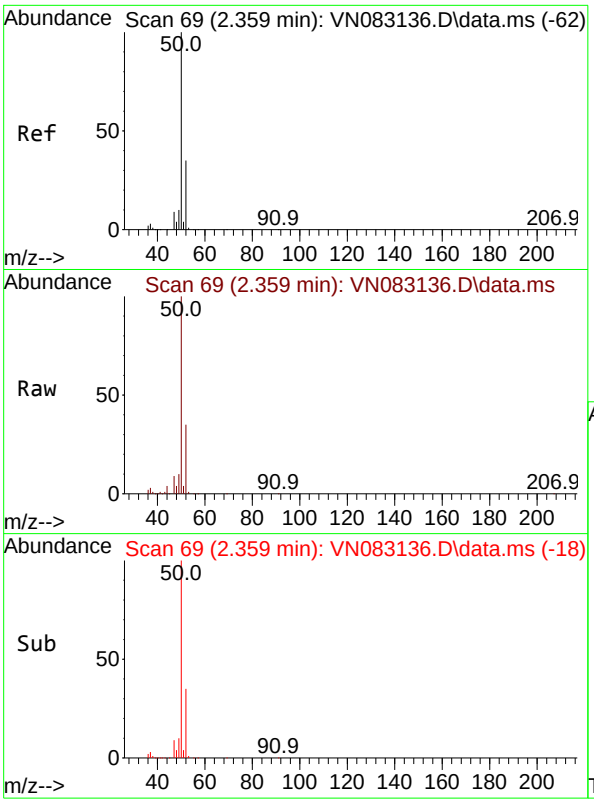


#2
Dichlorodifluoromethane
Concen: 50.312 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 85 Resp: 116913

Ion	Ratio	Lower	Upper
85	100		
87	33.0	15.7	47.0

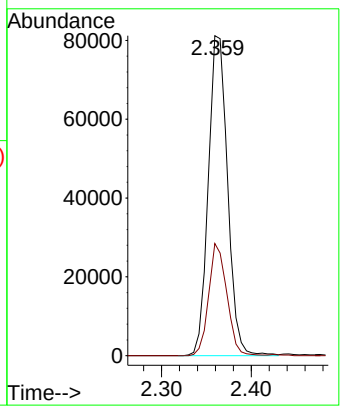




#3
Chloromethane
Concen: 50.915 ug/l
RT: 2.359 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 50 Resp: 12113

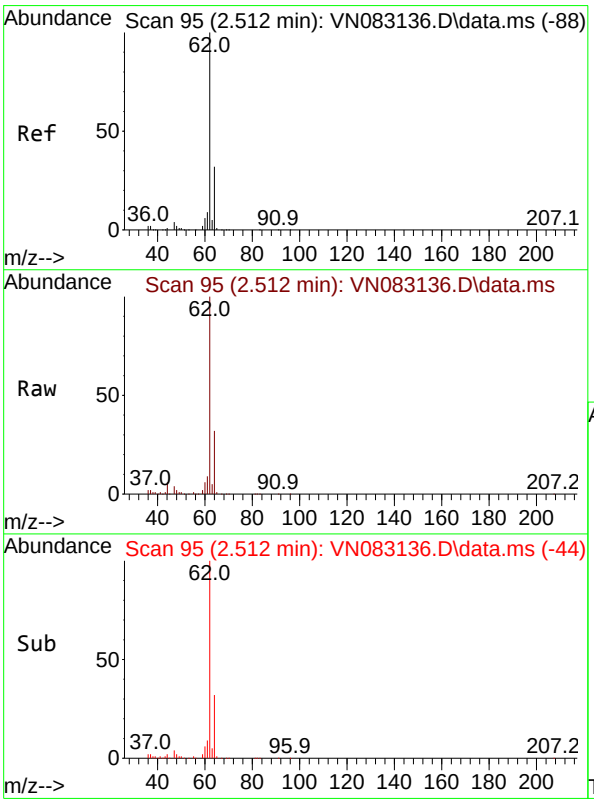
Ion	Ratio	Lower	Upper
50	100		
52	35.1	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

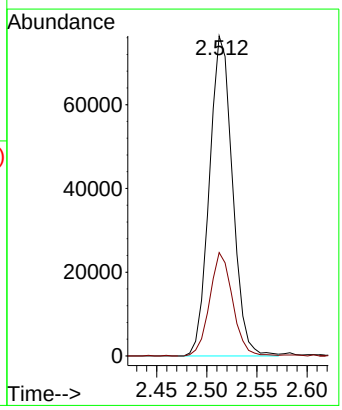
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

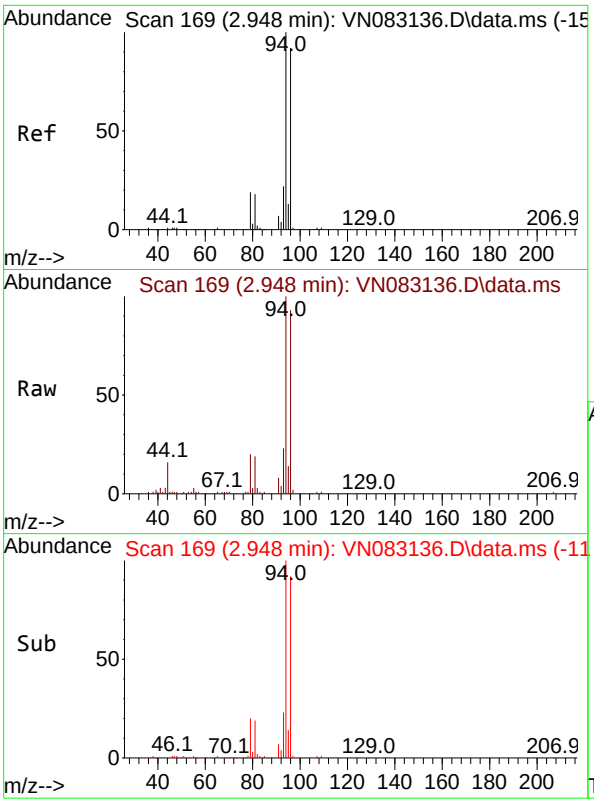


#4
Vinyl Chloride
Concen: 50.482 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 62 Resp: 122548

Ion	Ratio	Lower	Upper
62	100		
64	32.3	25.0	37.6

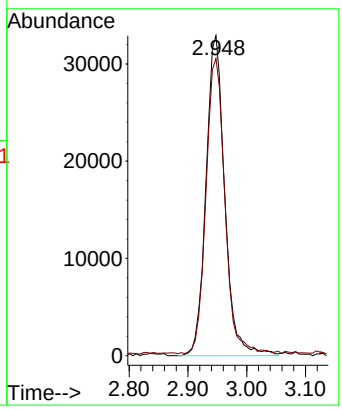




#5
Bromomethane
Concen: 48.538 ug/l
RT: 2.948 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 94 Resp: 7311

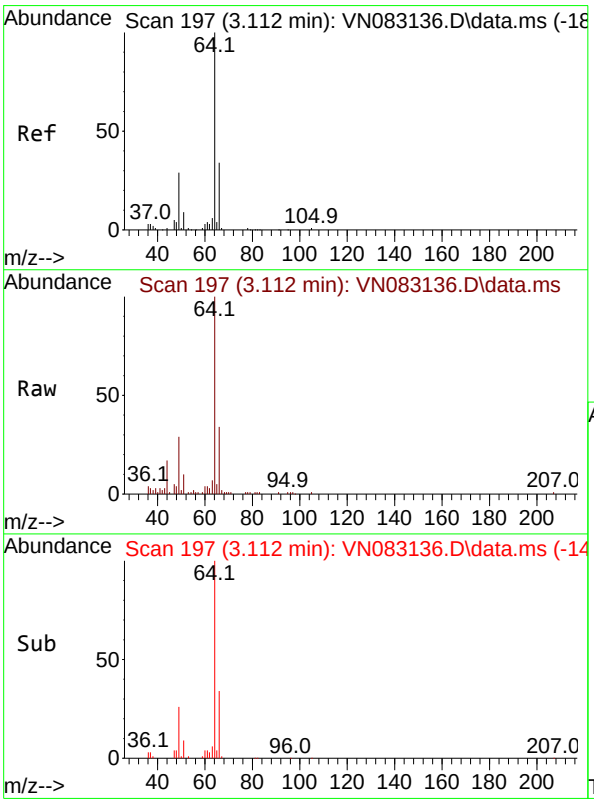
Ion	Ratio	Lower	Upper
94	100		
96	92.2	78.0	117.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

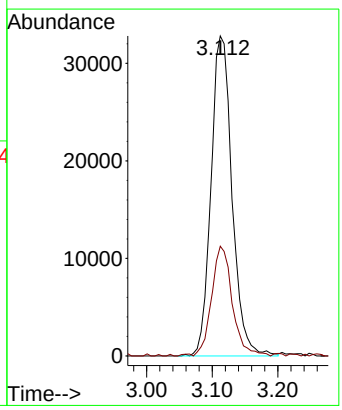
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

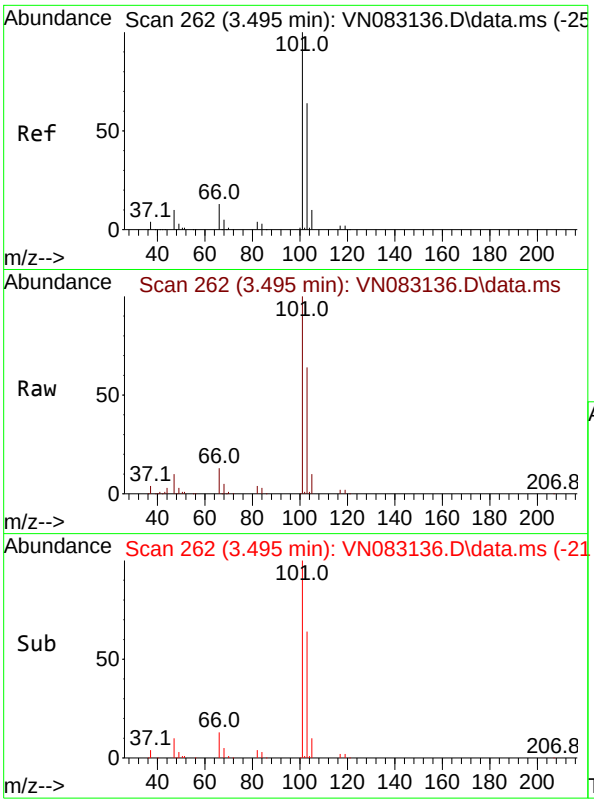


#6
Chloroethane
Concen: 48.043 ug/l
RT: 3.112 min Scan# 197
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 64 Resp: 72966

Ion	Ratio	Lower	Upper
64	100		
66	34.3	26.6	40.0

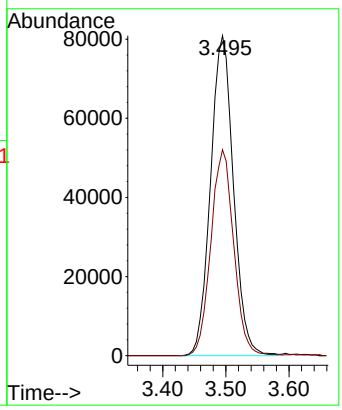




#7
Trichlorofluoromethane
Concen: 50.832 ug/l
RT: 3.495 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:101 Resp: 20384

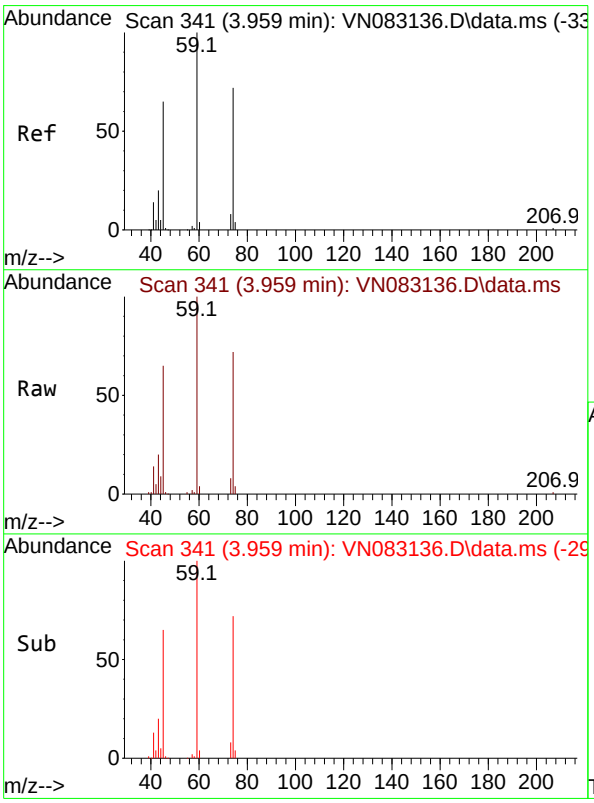
Ion	Ratio	Lower	Upper
101	100		
103	64.3	52.7	79.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

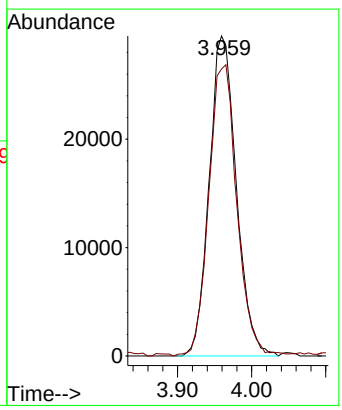
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

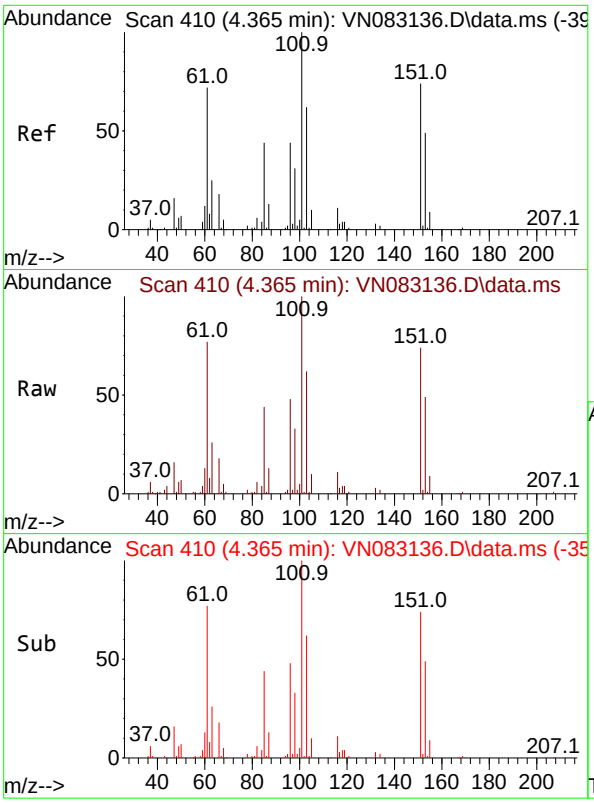


#8
Diethyl Ether
Concen: 50.318 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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# 41
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

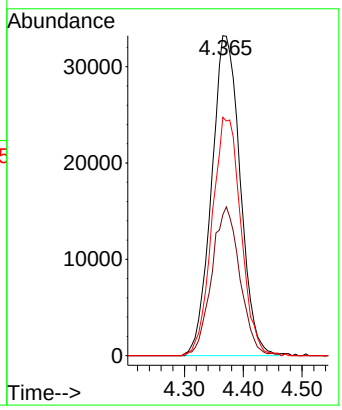
Tgt Ion:101 Resp: 11220

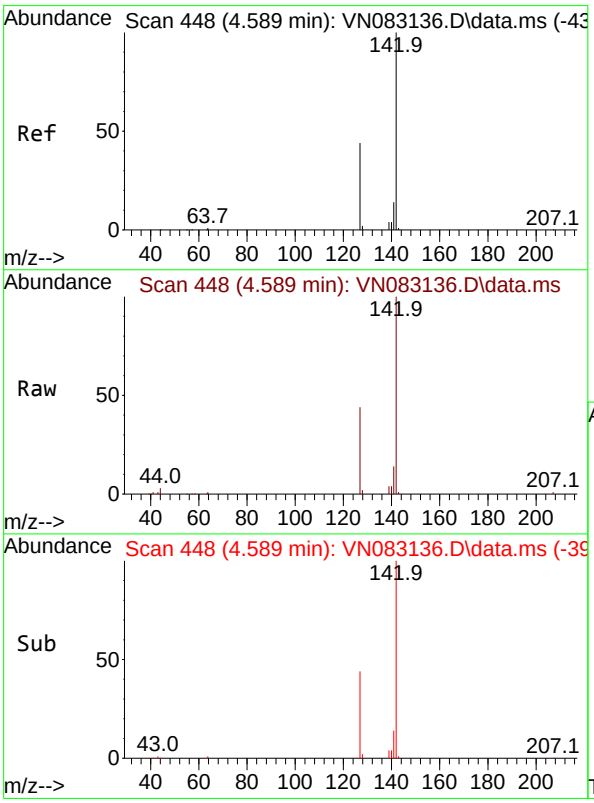
Ion	Ratio	Lower	Upper
101	100		
85	45.9	38.3	57.5
151	75.1	59.3	88.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

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

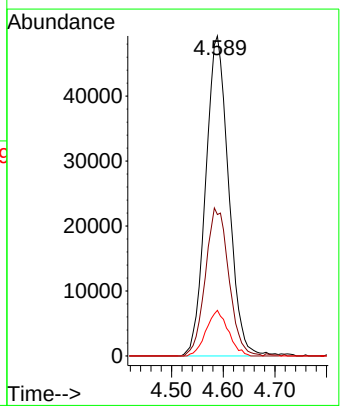


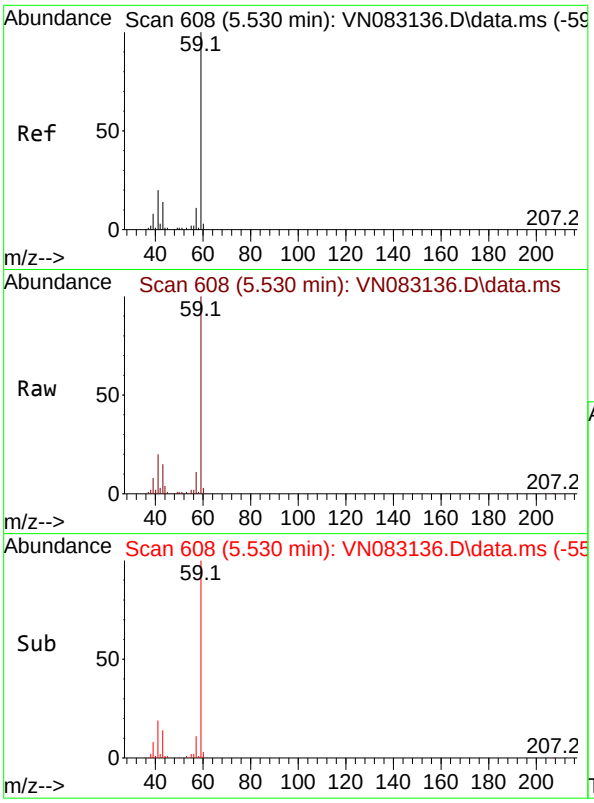


#10
Methyl Iodide
Concen: 52.170 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

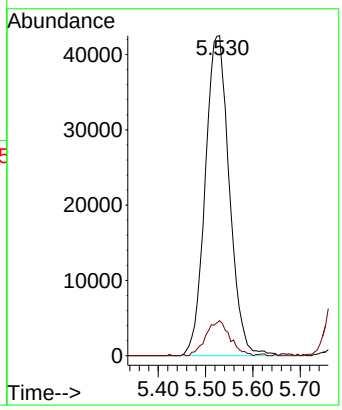




#11
Tert butyl alcohol
Concen: 247.904 ug/l
RT: 5.530 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 59 Resp: 15026

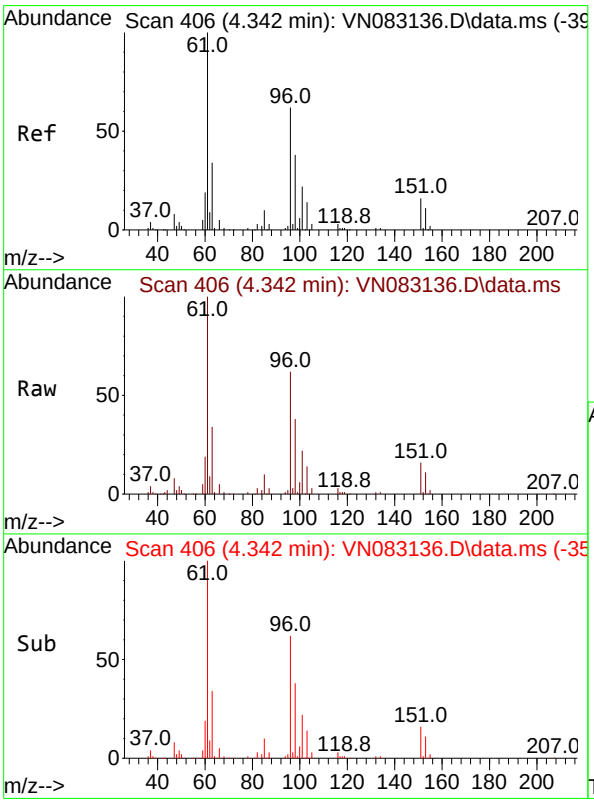
Ion	Ratio	Lower	Upper
59	100		
57	11.0	8.9	13.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

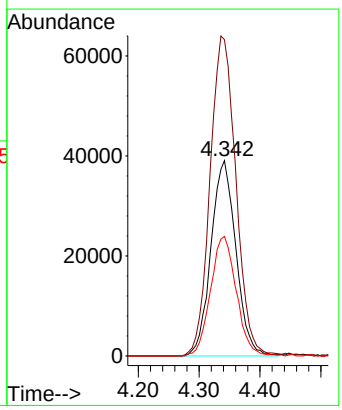
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

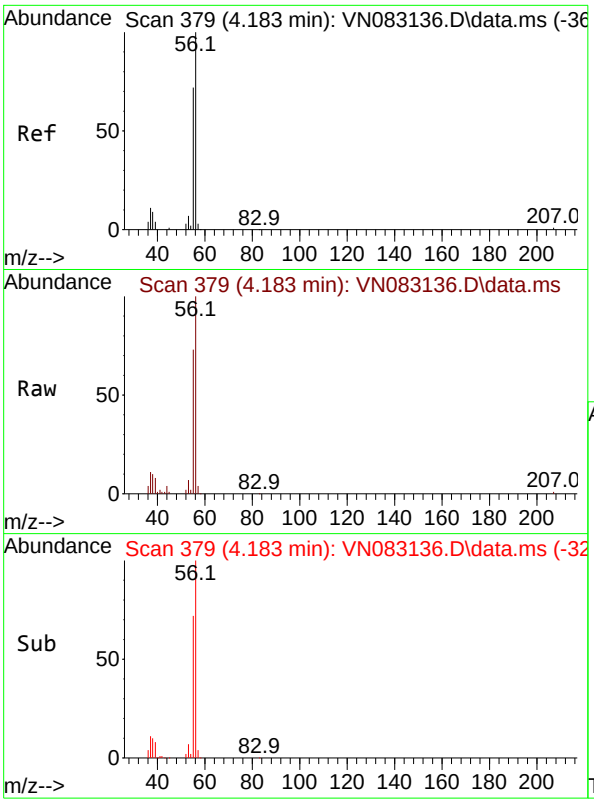


#12
1,1-Dichloroethene
Concen: 49.114 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

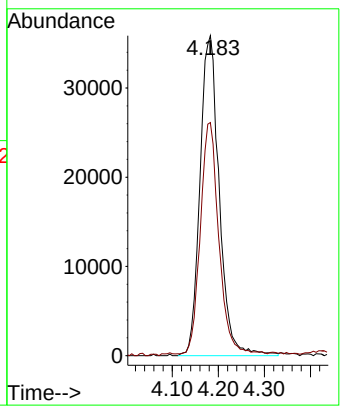




#13
Acrolein
Concen: 263.954 ug/l
RT: 4.183 min Scan# 3
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 56 Resp: 10427

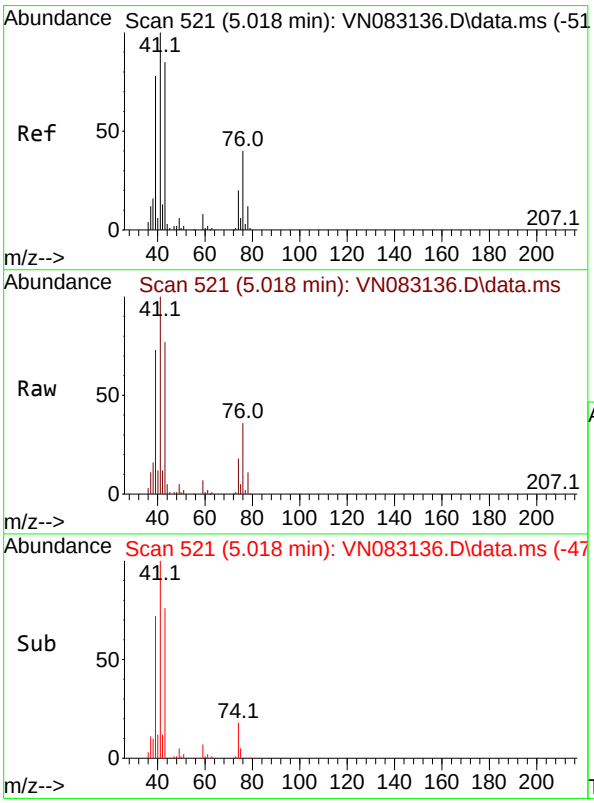
Ion	Ratio	Lower	Upper
56	100		
55	68.8	56.4	84.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

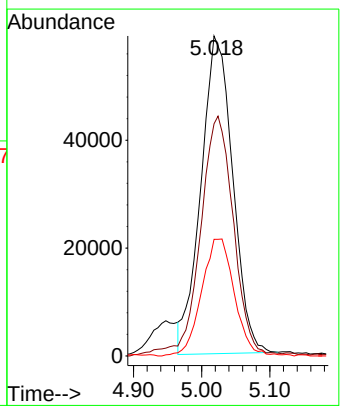
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

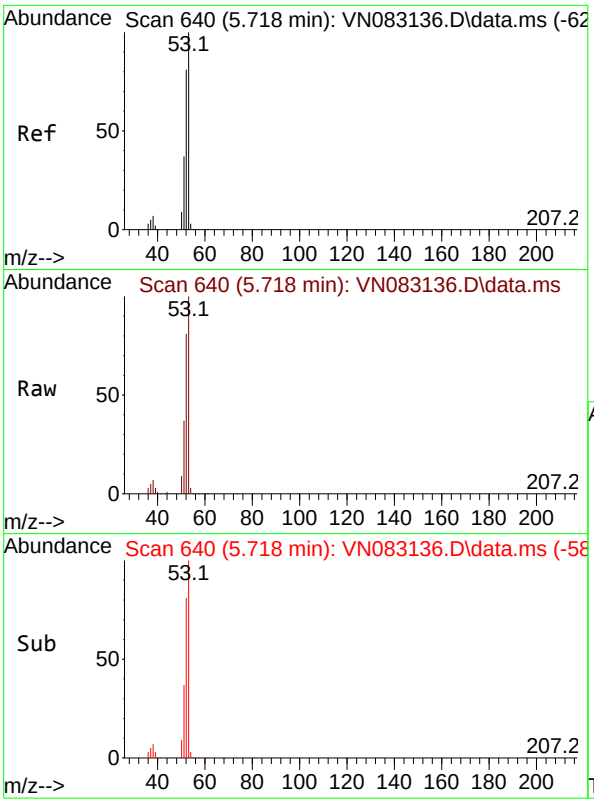


#14
Allyl chloride
Concen: 44.541 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

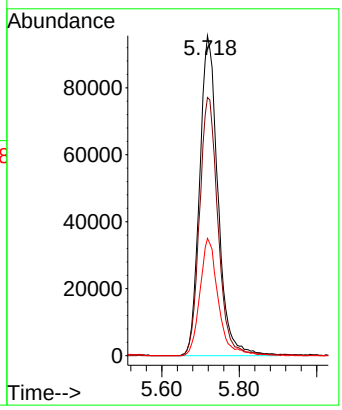




#15
Acrylonitrile
Concen: 251.149 ug/l
RT: 5.718 min Scan# 64
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 53 Resp: 31309

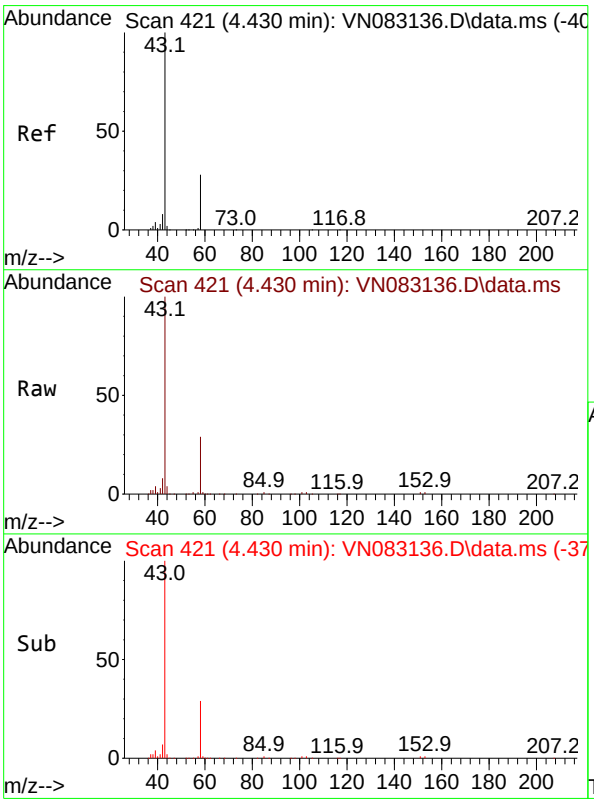
Ion	Ratio	Lower	Upper
53	100		
52	81.2	66.6	100.0
51	36.5	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

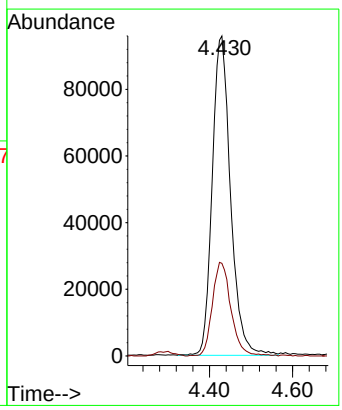
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

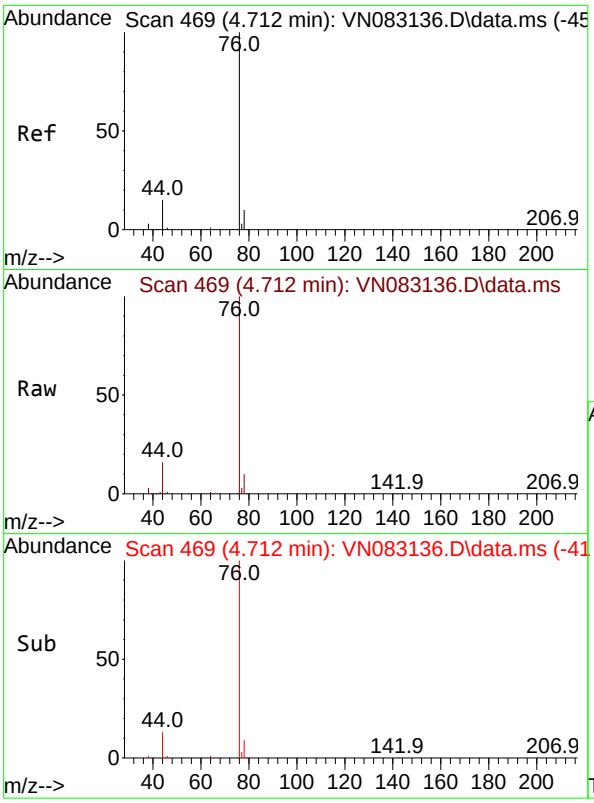


#16
Acetone
Concen: 256.804 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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# 4
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

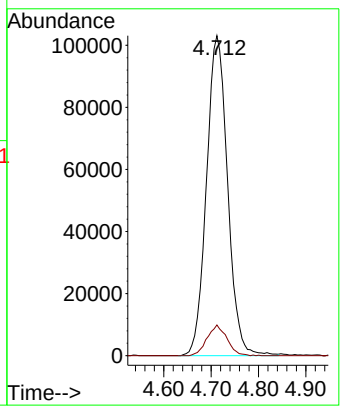
Tgt Ion: 76 Resp: 31965

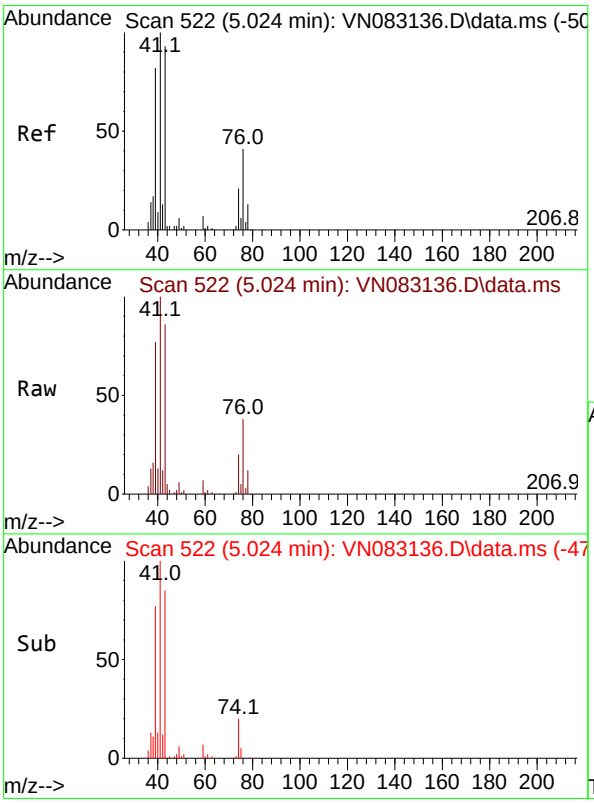
Ion	Ratio	Lower	Upper
76	100		
78	9.6	7.2	10.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

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

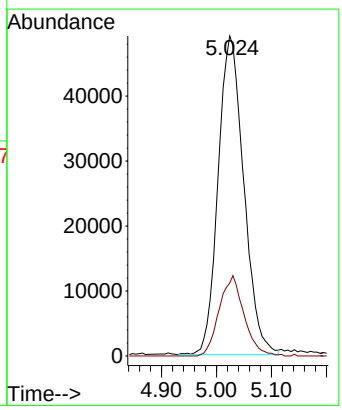


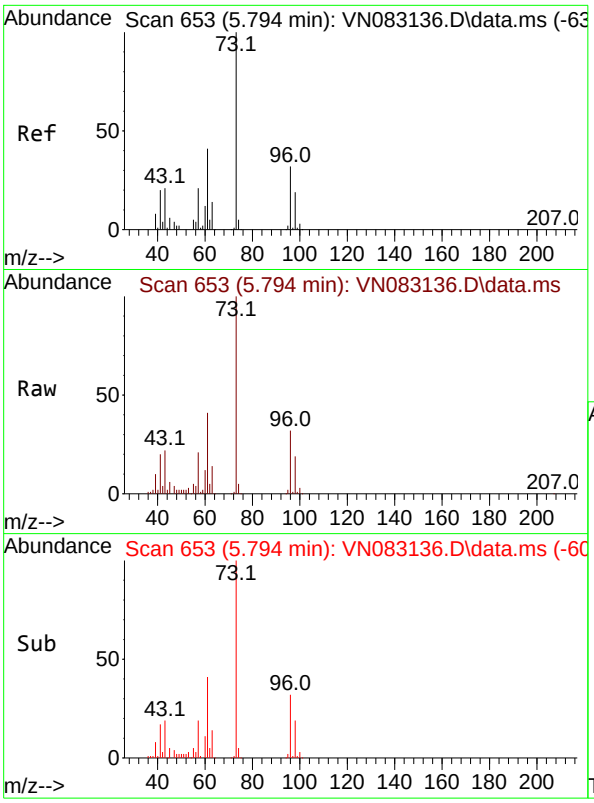


#18
Methyl Acetate
Concen: 46.765 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 43 Resp: 159022

Ion	Ratio	Lower	Upper
43	100		
74	24.3	16.3	24.5

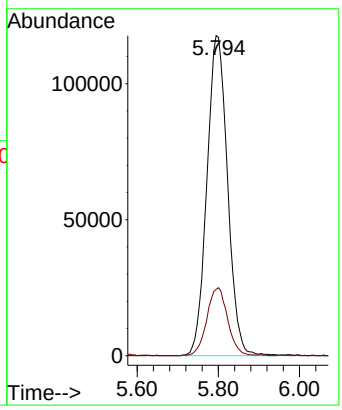




#19
Methyl tert-butyl Ether
Concen: 50.676 ug/l
RT: 5.794 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 73 Resp: 41548

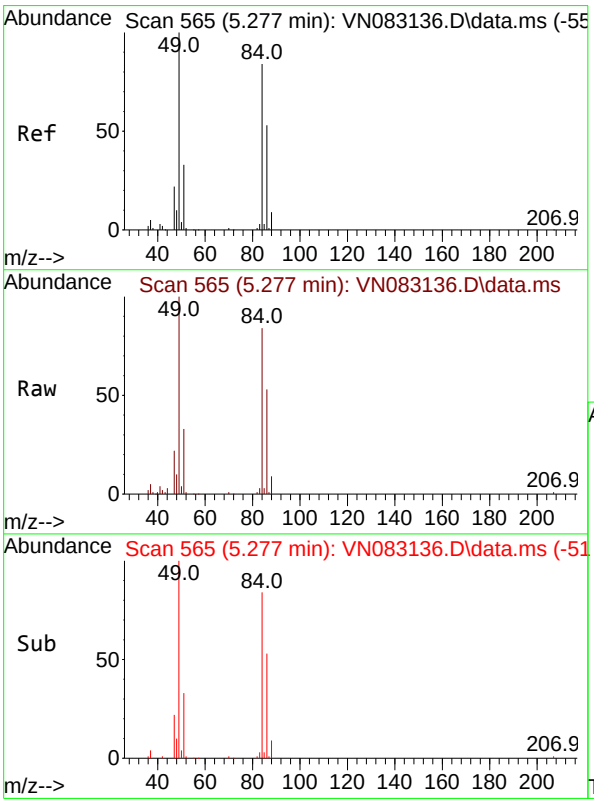
Ion	Ratio	Lower	Upper
73	100		
57	20.7	17.9	26.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

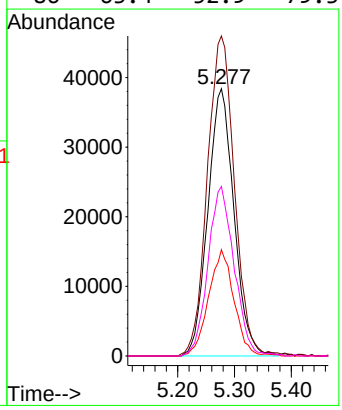
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

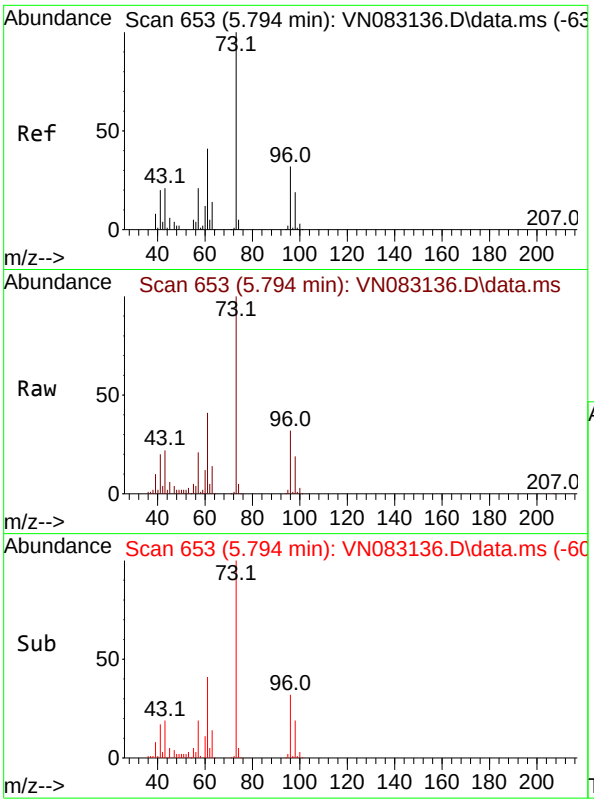


#20
Methylene Chloride
Concen: 46.744 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

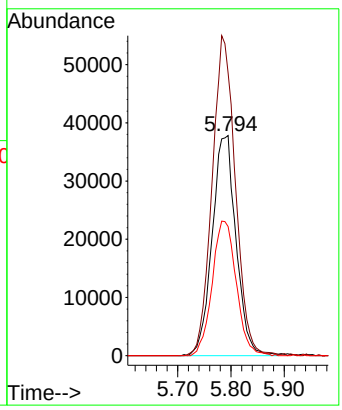




#21
trans-1,2-Dichloroethene
Concen: 50.127 ug/l
RT: 5.794 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 96 Resp: 11768

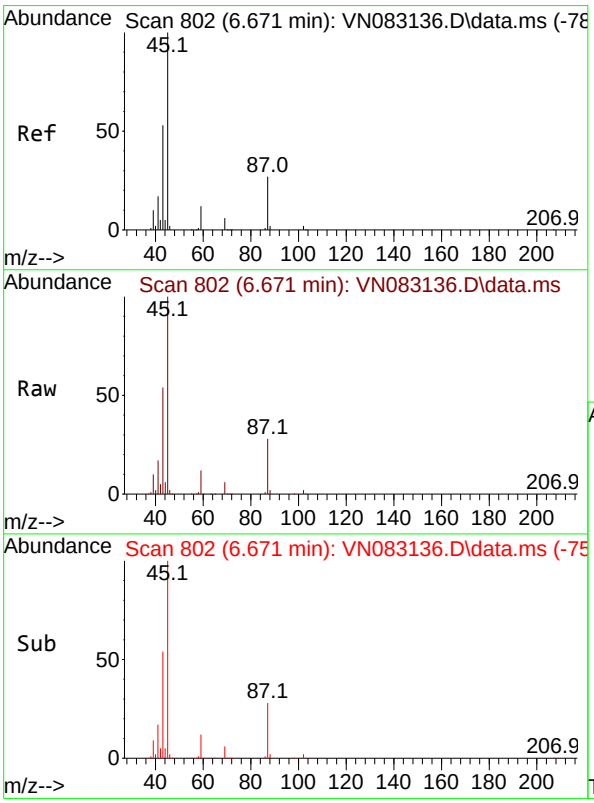
Ion	Ratio	Lower	Upper
96	100		
61	128.4	123.4	185.2
98	58.7	49.3	73.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

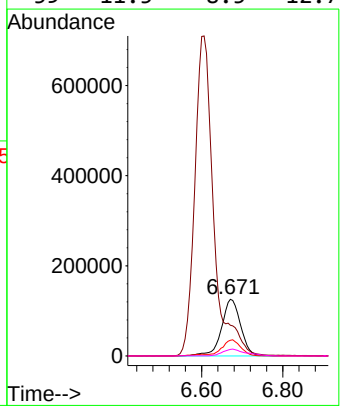
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

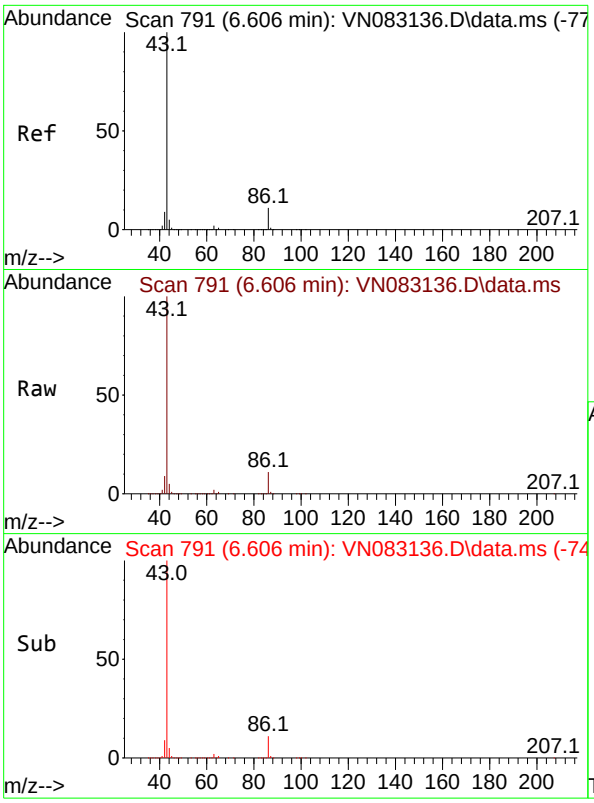


#22
Diisopropyl ether
Concen: 50.987 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

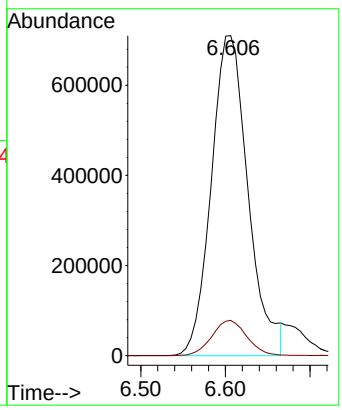




#23
Vinyl Acetate
Concen: 259.716 ug/l m
RT: 6.606 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 43 Resp: 214759

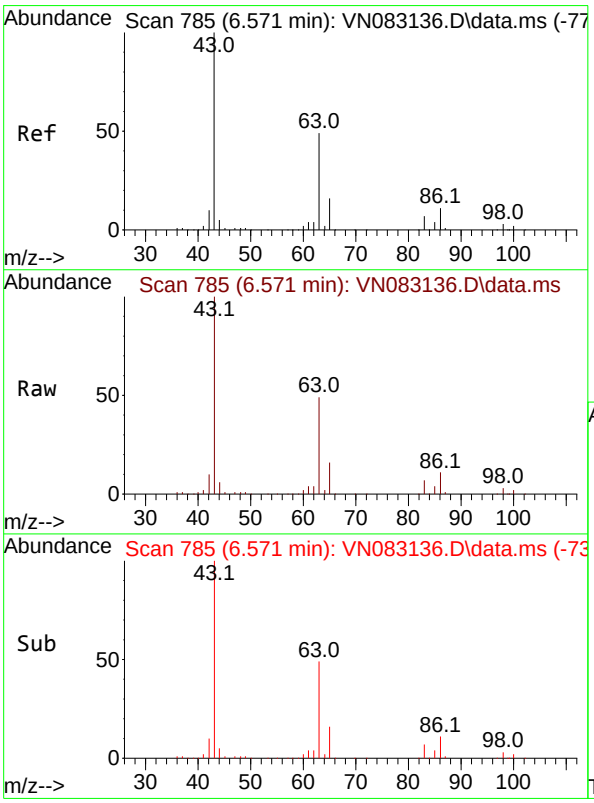
Ion	Ratio	Lower	Upper
43	100		
86	11.0	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

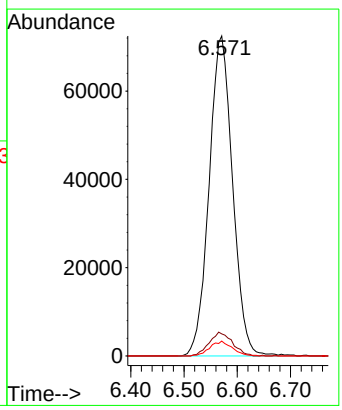
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

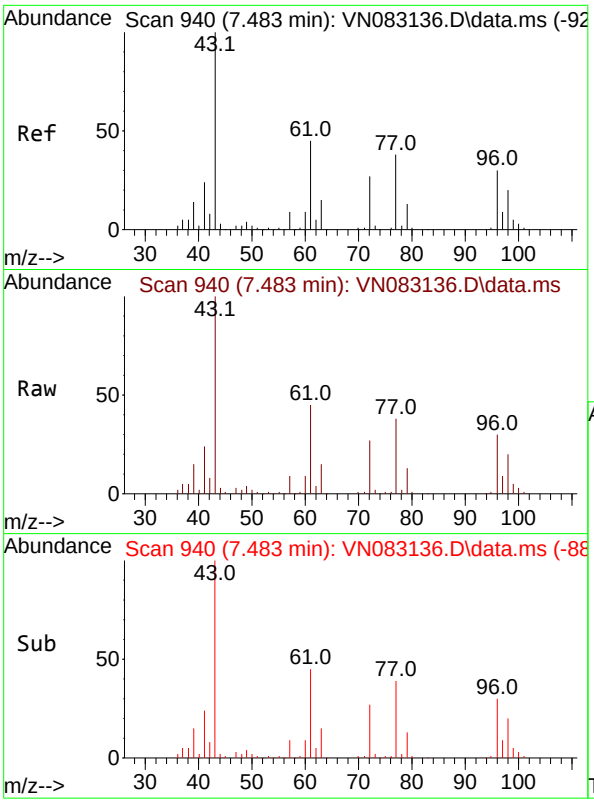


#24
1,1-Dichloroethane
Concen: 50.493 ug/l
RT: 6.571 min Scan# 785
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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# 94
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

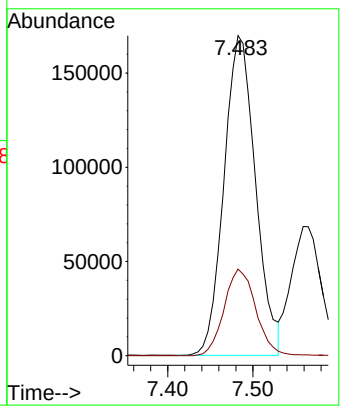
Tgt Ion: 43 Resp: 43739

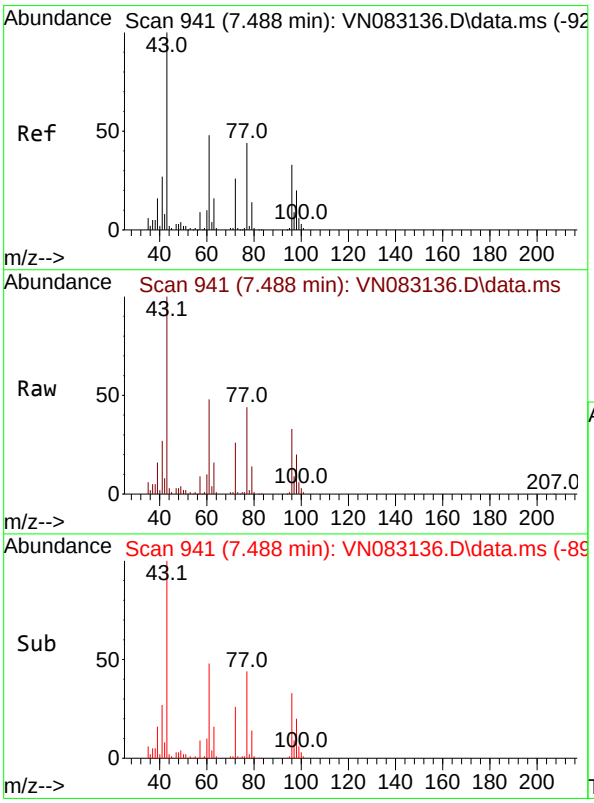
Ion	Ratio	Lower	Upper
43	100		
72	27.1	18.2	27.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

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

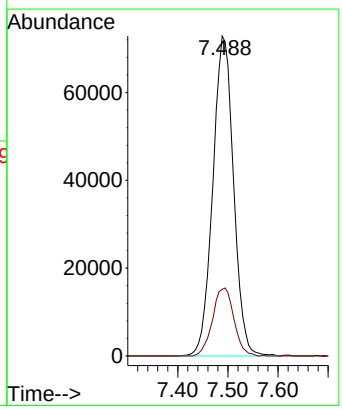


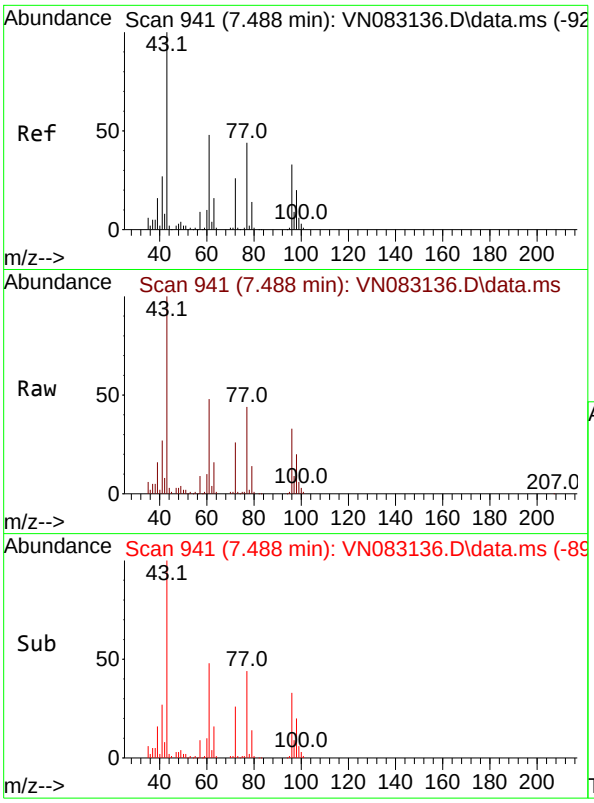


#26
2,2-Dichloropropane
Concen: 51.336 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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# 94
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

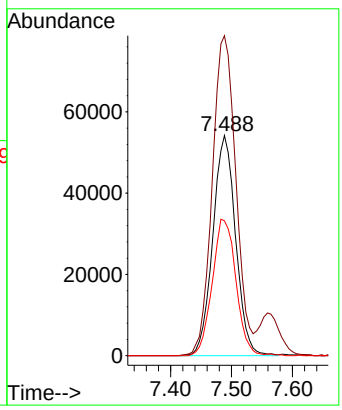
Tgt Ion: 96 Resp: 14111(

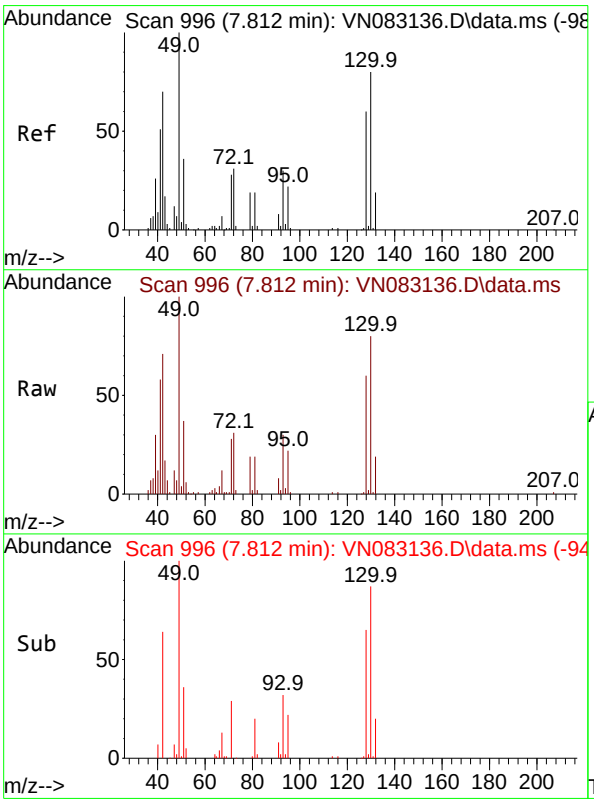
Ion	Ratio	Lower	Upper
96	100		
61	150.4	0.0	329.6
98	64.5	0.0	128.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

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

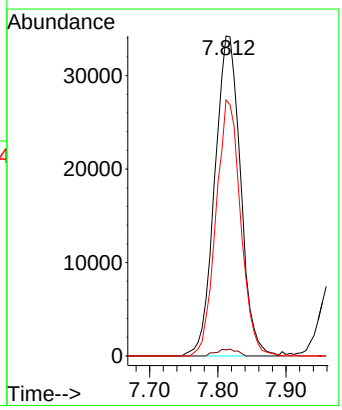


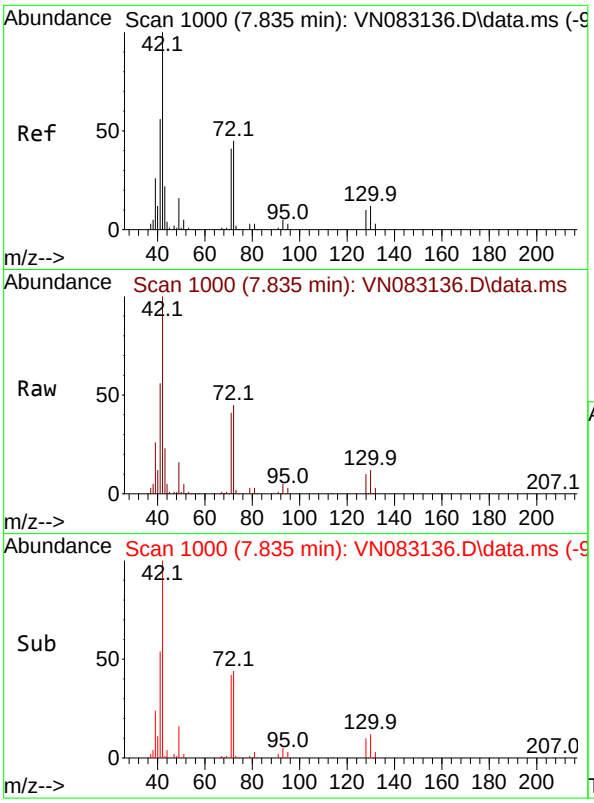


#28
Bromochloromethane
Concen: 50.041 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

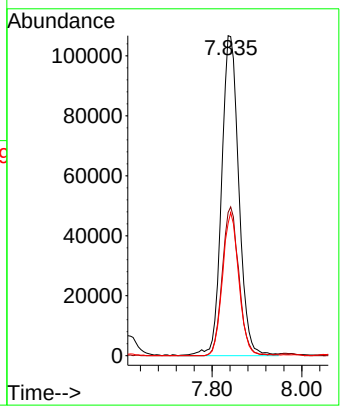
Tgt Ion: 42 Resp: 28585

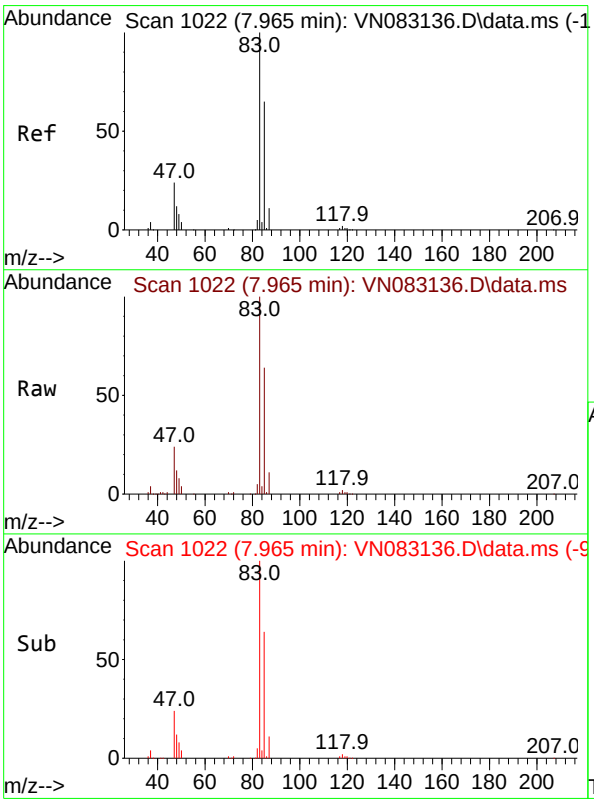
Ion	Ratio	Lower	Upper
42	100		
72	44.6	30.0	45.0
71	42.4	28.3	42.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

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

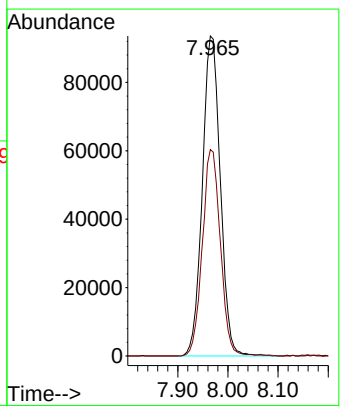


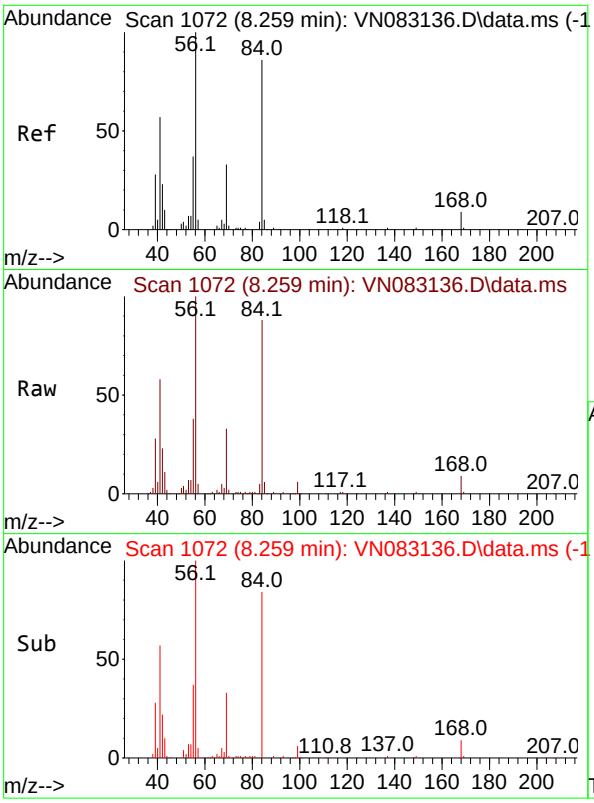


#30
Chloroform
Concen: 50.978 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 83 Resp: 232933

Ion	Ratio	Lower	Upper
83	100		
85	64.5	50.9	76.3

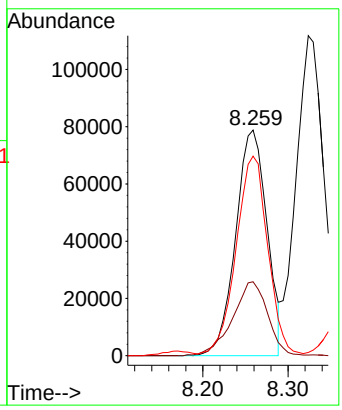




#31
Cyclohexane
Concen: 46.565 ug/l
RT: 8.259 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 56 Resp: 20127

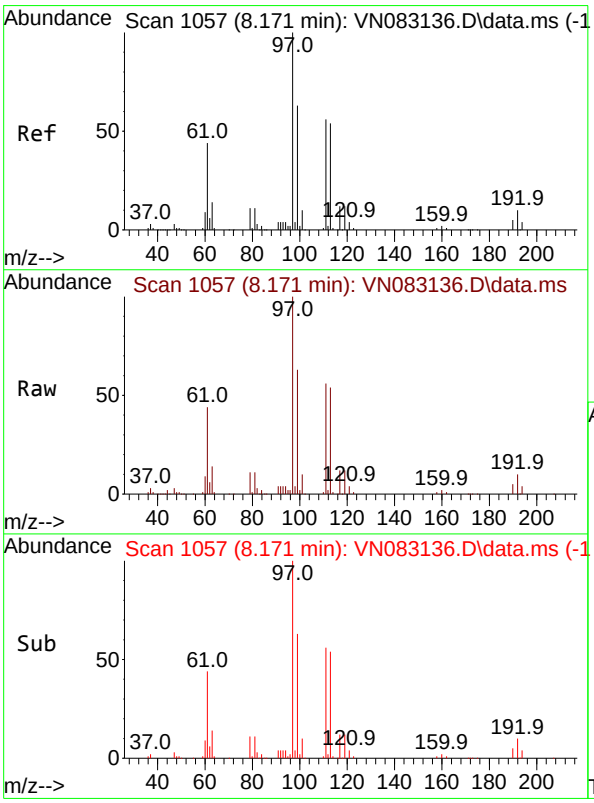
Ion	Ratio	Lower	Upper
56	100		
69	32.7	24.5	36.7
84	86.4	66.0	99.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

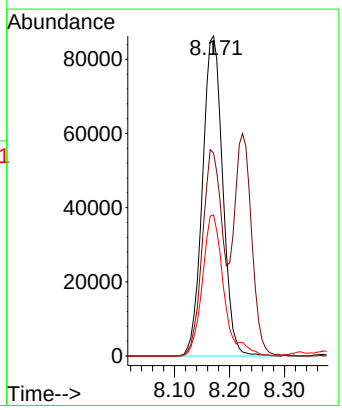
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

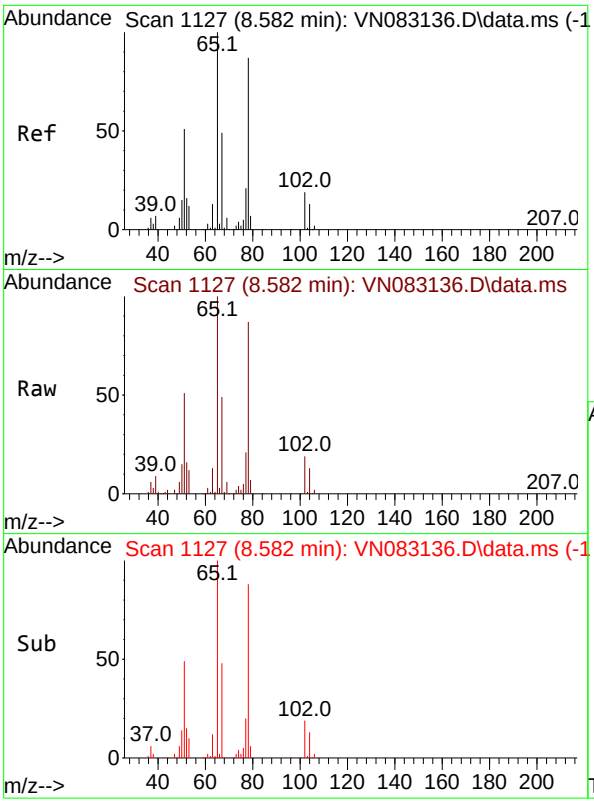


#32
1,1,1-Trichloroethane
Concen: 50.935 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

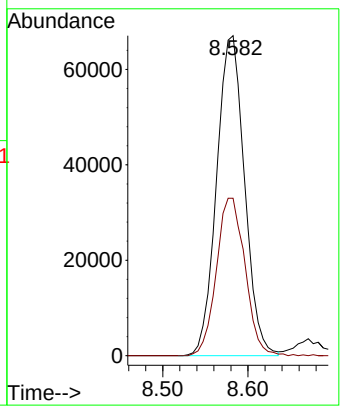




#33
1,2-Dichloroethane-d4
Concen: 52.348 ug/l
RT: 8.582 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 65 Resp: 15268

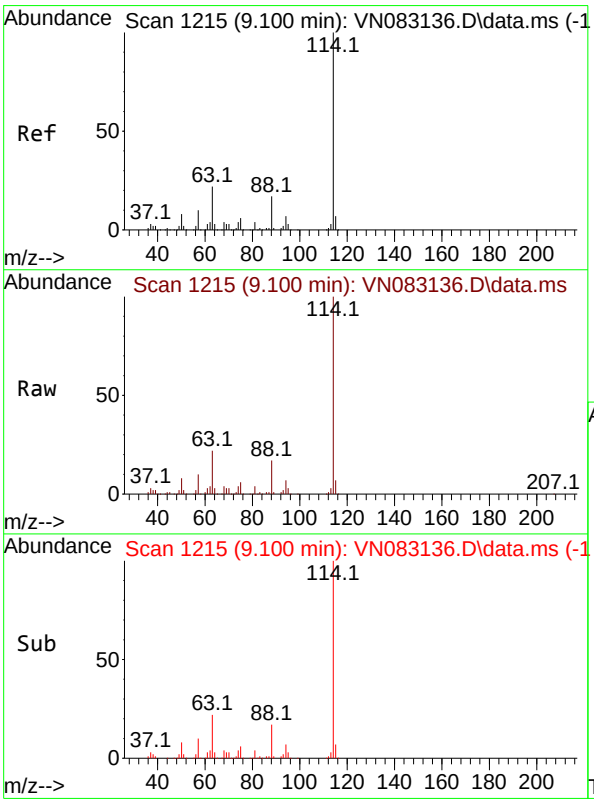
Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	104.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

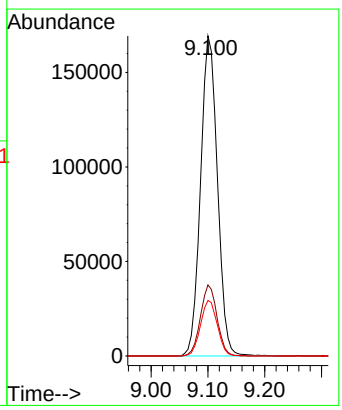
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

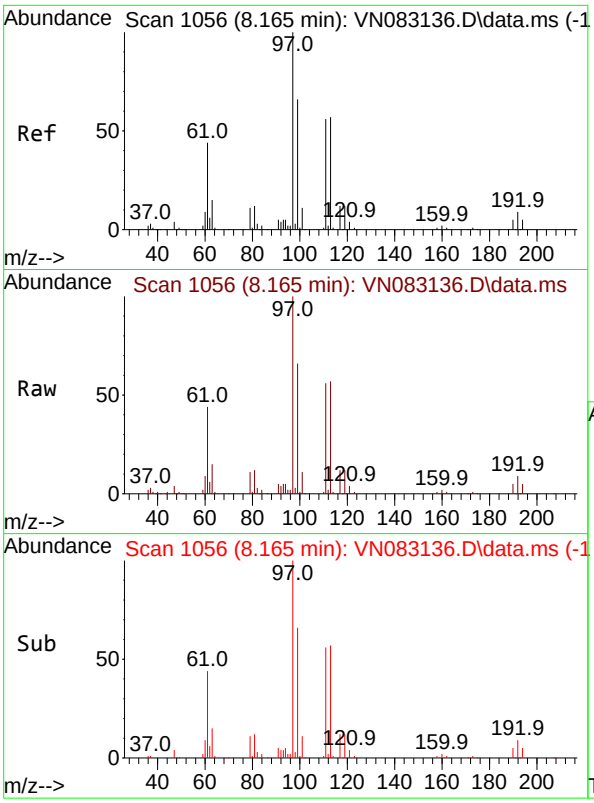


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

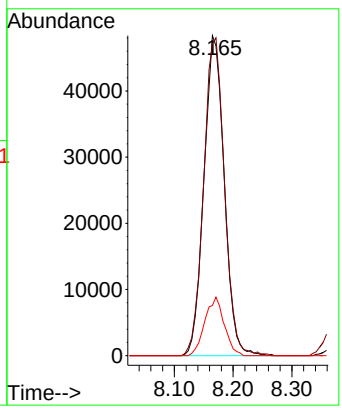




#35
Dibromofluoromethane
Concen: 53.216 ug/l
RT: 8.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:113 Resp: 11586

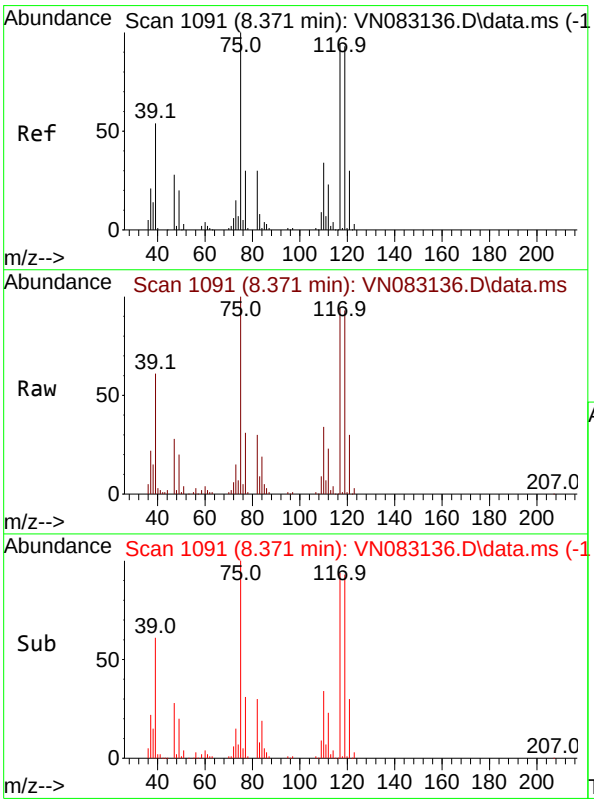
Ion	Ratio	Lower	Upper
113	100		
111	101.9	82.4	123.6
192	17.5	14.9	22.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

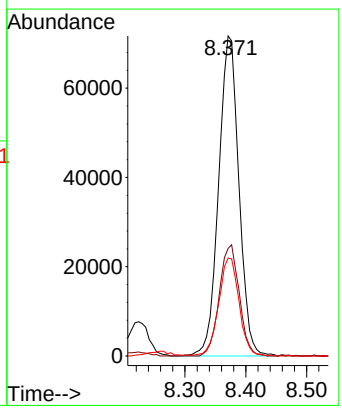
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

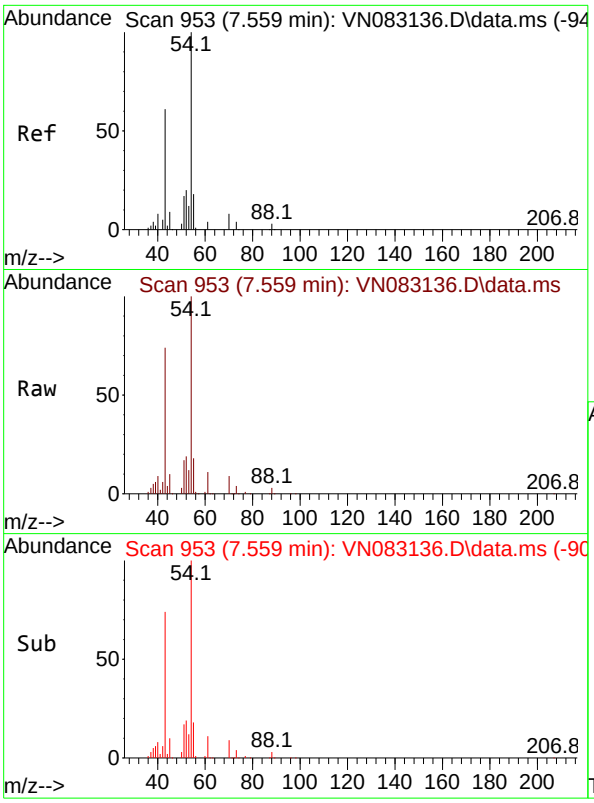


#36
1,1-Dichloropropene
Concen: 50.349 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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# 9
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

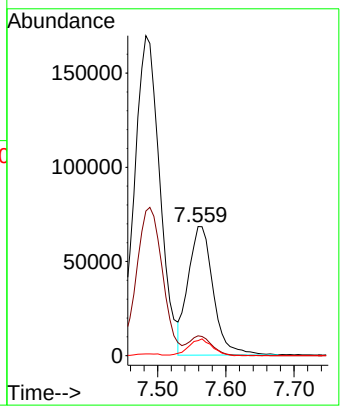
Tgt Ion: 43 Resp: 17410

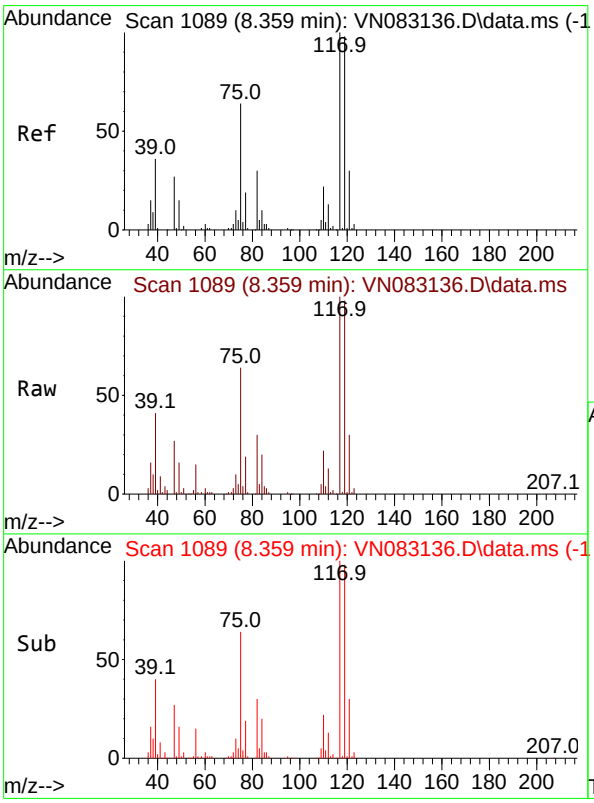
Ion	Ratio	Lower	Upper
43	100		
61	14.4	9.3	13.9#
70	12.1	7.0	10.6#

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

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

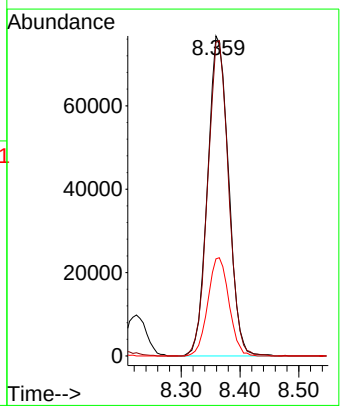


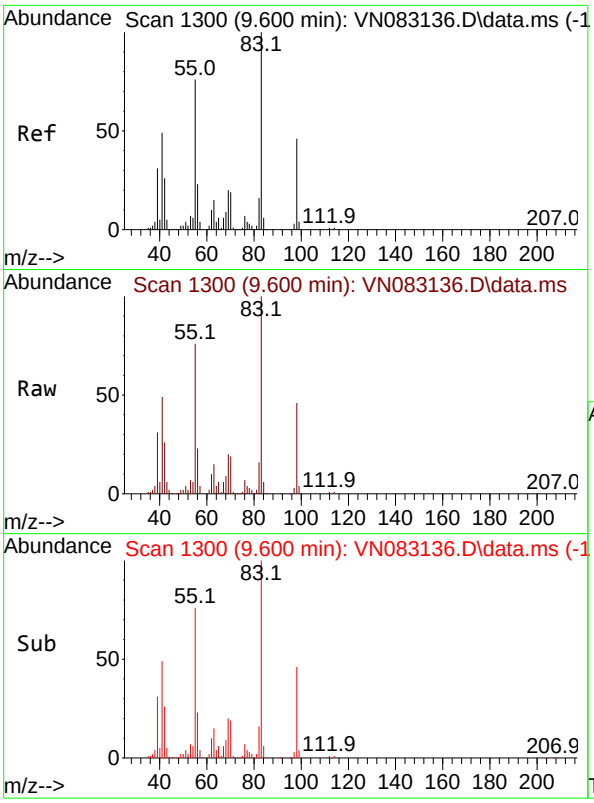


#38
Carbon Tetrachloride
Concen: 51.315 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

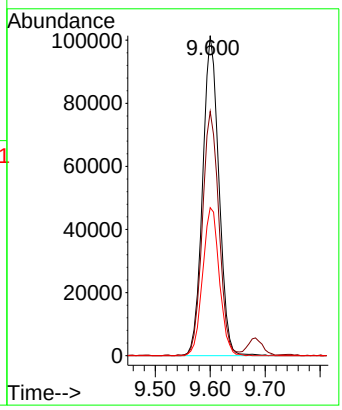




#39
Methylcyclohexane
Concen: 51.461 ug/l
RT: 9.600 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 83 Resp: 20817

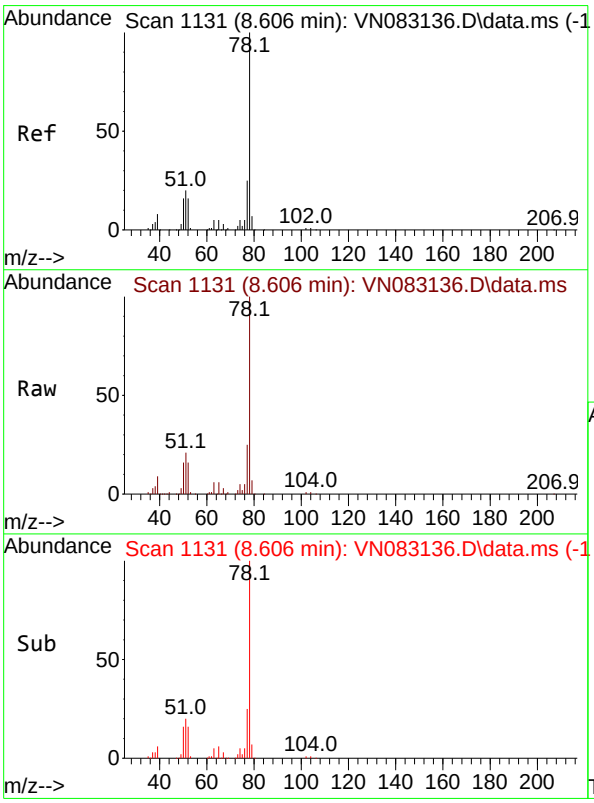
Ion	Ratio	Lower	Upper
83	100		
55	76.0	66.4	99.6
98	46.3	40.7	61.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

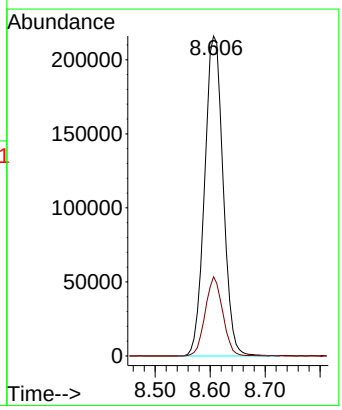
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

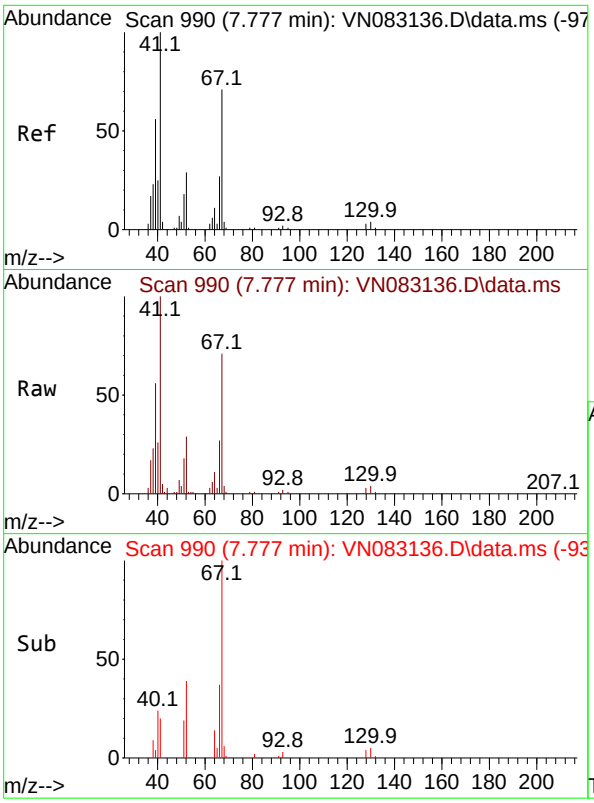


#40
Benzene
Concen: 51.436 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 78 Resp: 504662

Ion	Ratio	Lower	Upper
78	100		
77	24.8	19.0	28.4

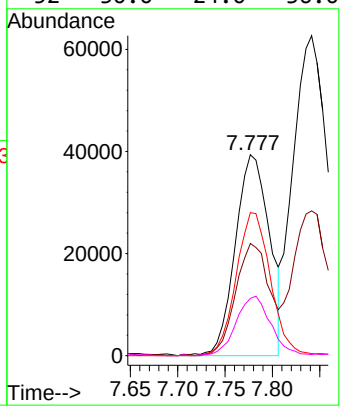




#41
Methacrylonitrile
Concen: 47.154 ug/l
RT: 7.777 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 41 Resp: 9886

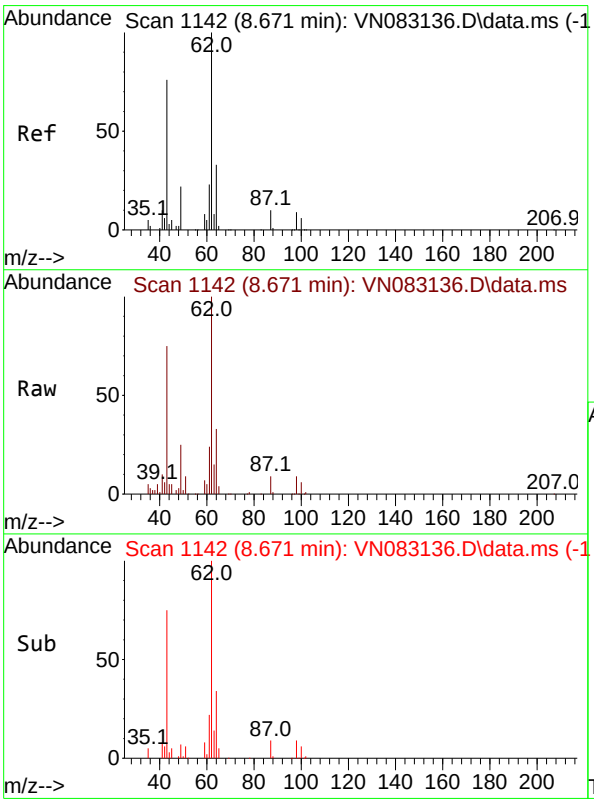
Ion	Ratio	Lower	Upper
41	100		
39	55.4	45.5	68.3
67	72.0	50.5	75.7
52	30.0	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

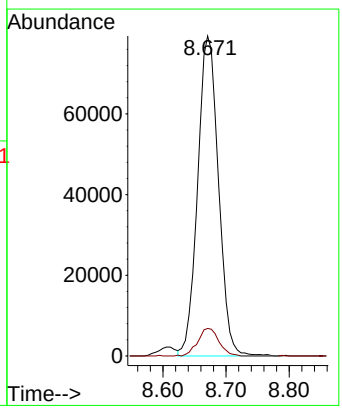
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

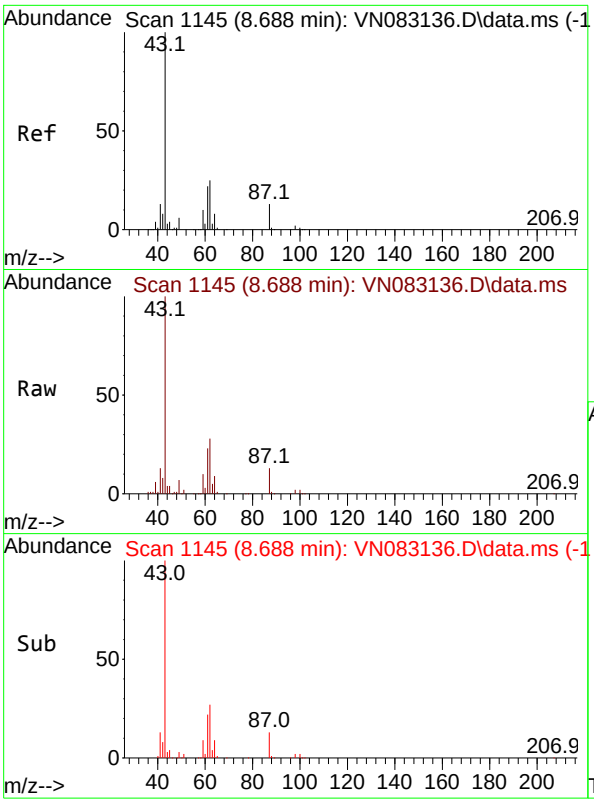


#42
1,2-Dichloroethane
Concen: 50.765 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

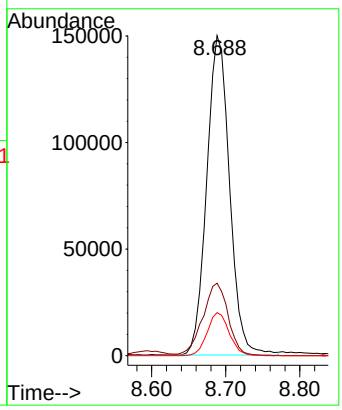
Tgt Ion: 43 Resp: 32108

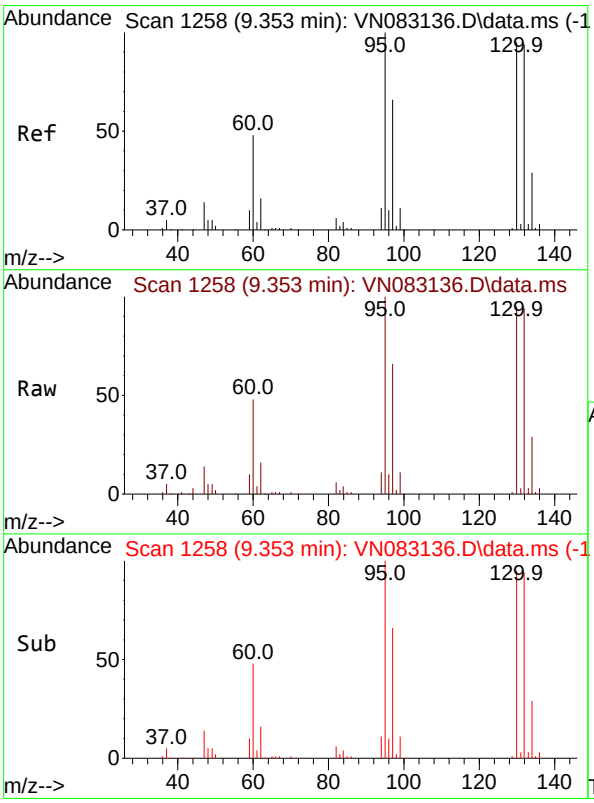
Ion	Ratio	Lower	Upper
43	100		
61	25.3	17.8	26.6
87	13.0	8.2	12.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

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

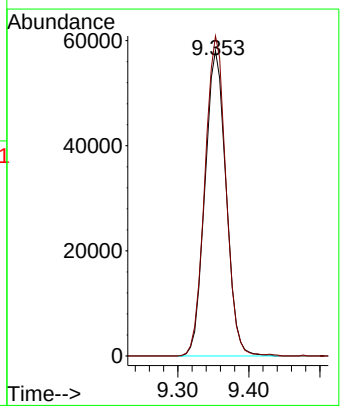


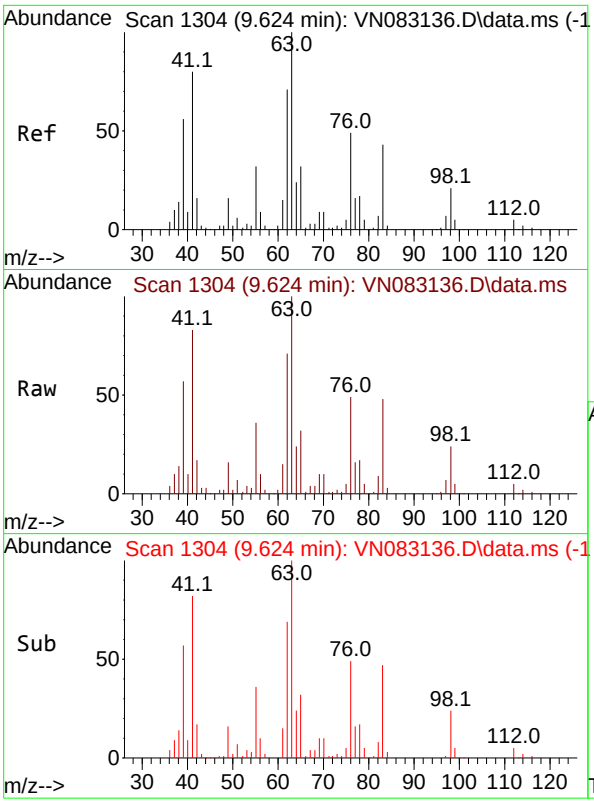


#44
Trichloroethene
Concen: 51.383 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

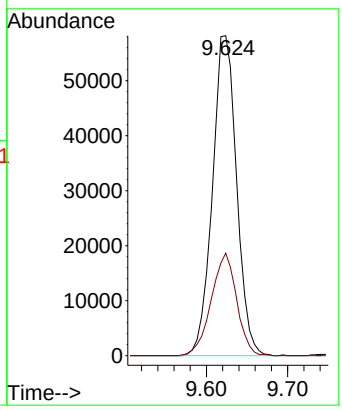
Tgt Ion: 63 Resp: 12051

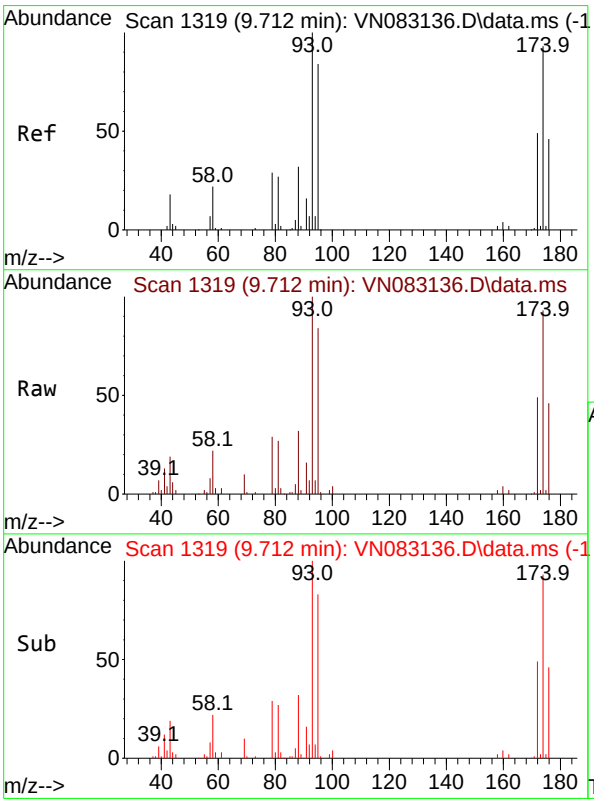
Ion	Ratio	Lower	Upper
63	100		
65	32.1	24.4	36.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

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

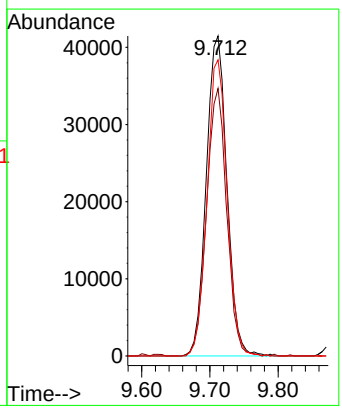


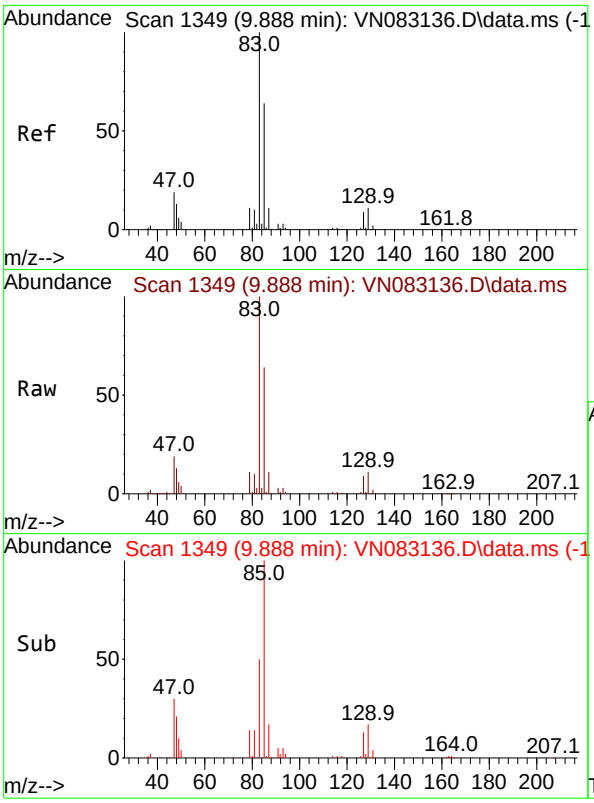


#46
Dibromomethane
Concen: 52.436 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

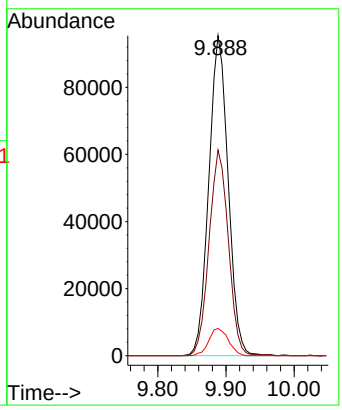




#47
Bromodichloromethane
Concen: 50.245 ug/l
RT: 9.888 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 83 Resp: 18806

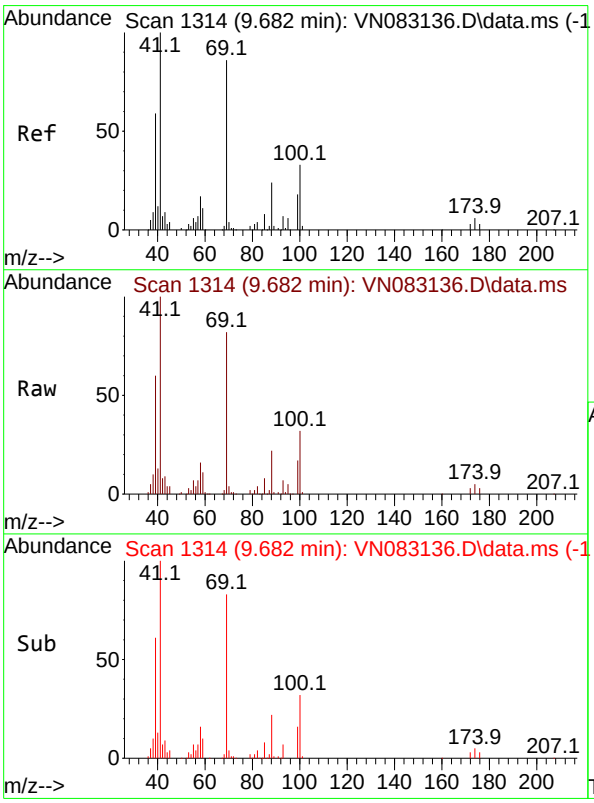
Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.1	76.7
127	8.5	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

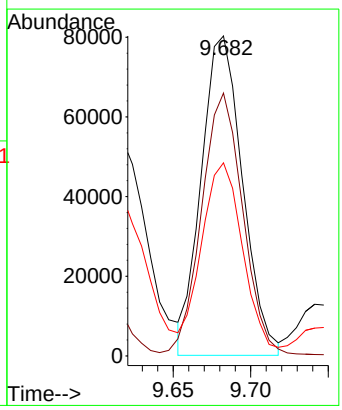
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

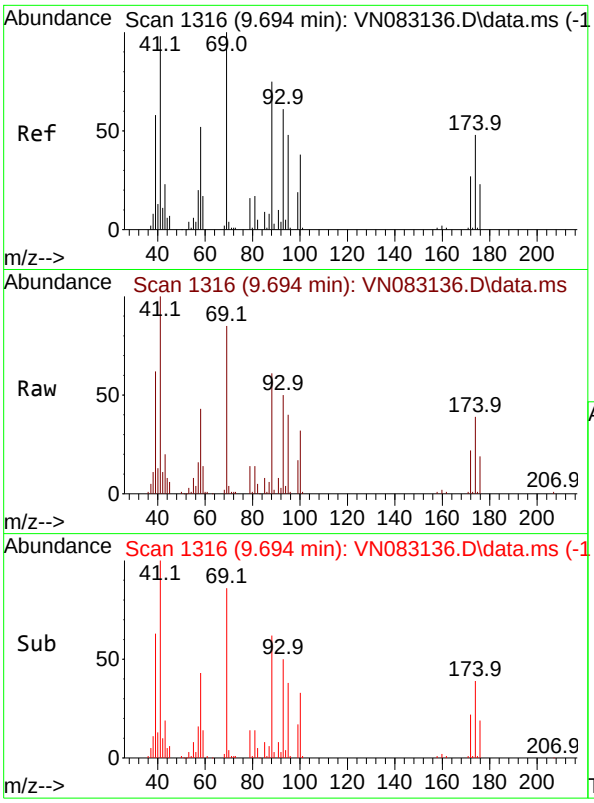


#48
Methyl methacrylate
Concen: 48.631 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

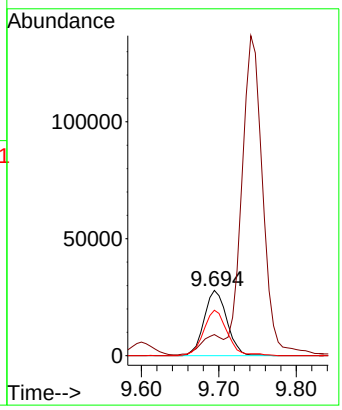




#49
1,4-Dioxane
Concen: 1036.917 ug/l
RT: 9.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 88 Resp: 5703

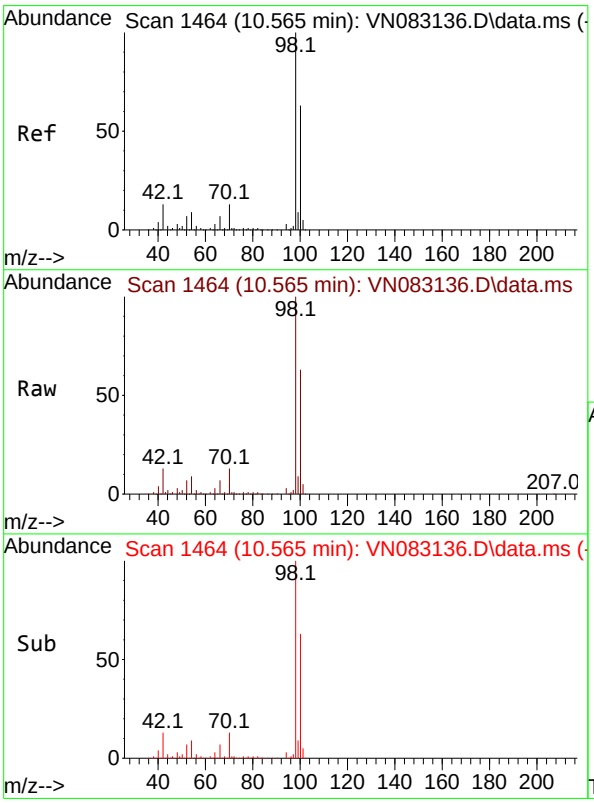
Ion	Ratio	Lower	Upper
88	100		
43	29.1	27.8	41.8
58	72.4	59.4	89.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

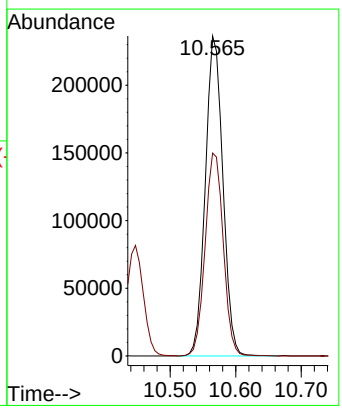
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

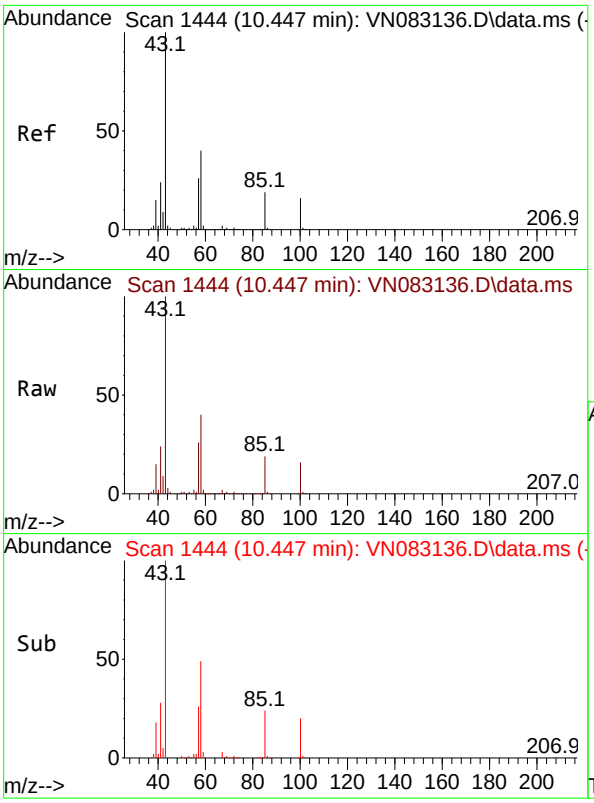


#50
Toluene-d8
Concen: 54.174 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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# 14
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

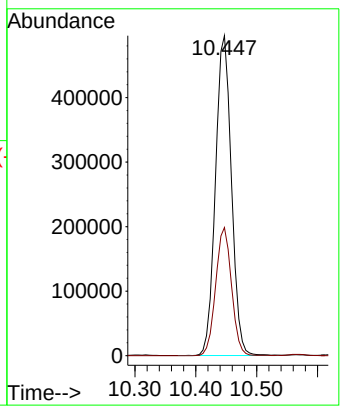
Tgt Ion: 43 Resp: 90141

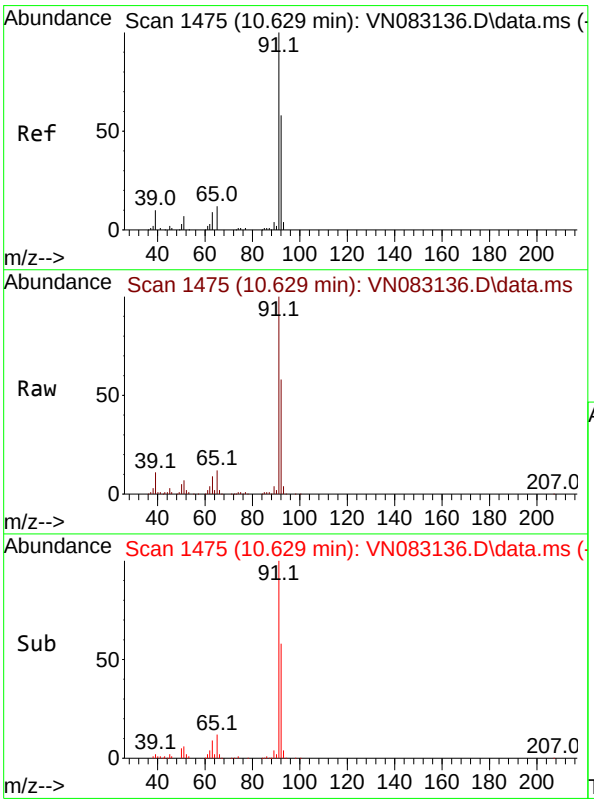
Ion	Ratio	Lower	Upper
43	100		
58	39.8	28.2	42.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

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

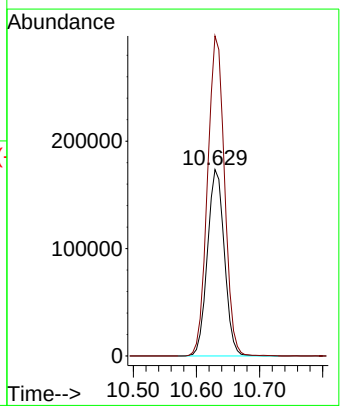


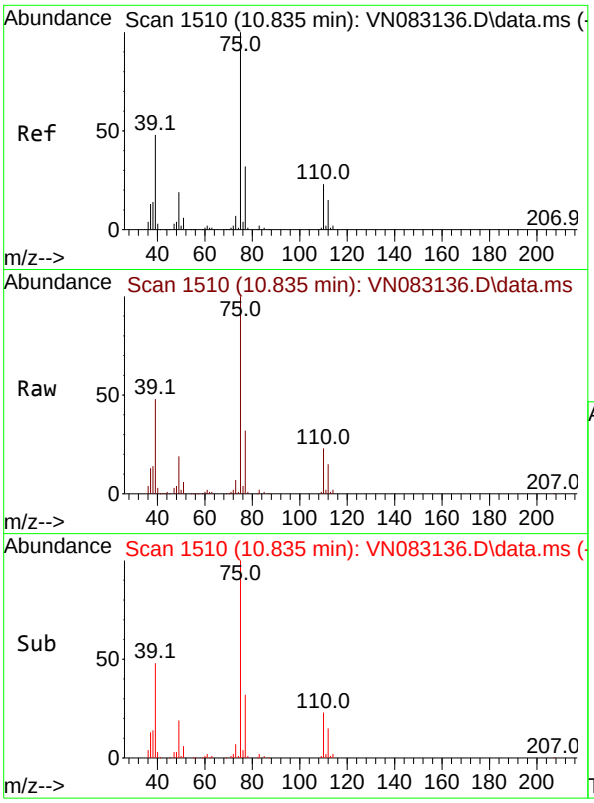


#52
Toluene
Concen: 52.127 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 92 Resp: 323148

Ion	Ratio	Lower	Upper
92	100		
91	172.1	139.4	209.0

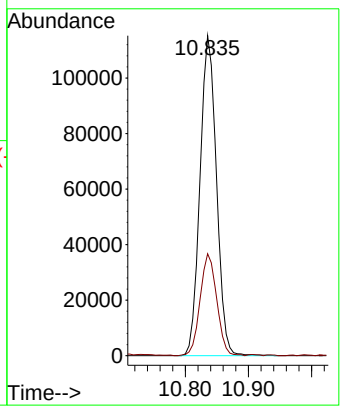




#53
t-1,3-Dichloropropene
Concen: 54.205 ug/l
RT: 10.835 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 75 Resp: 20841

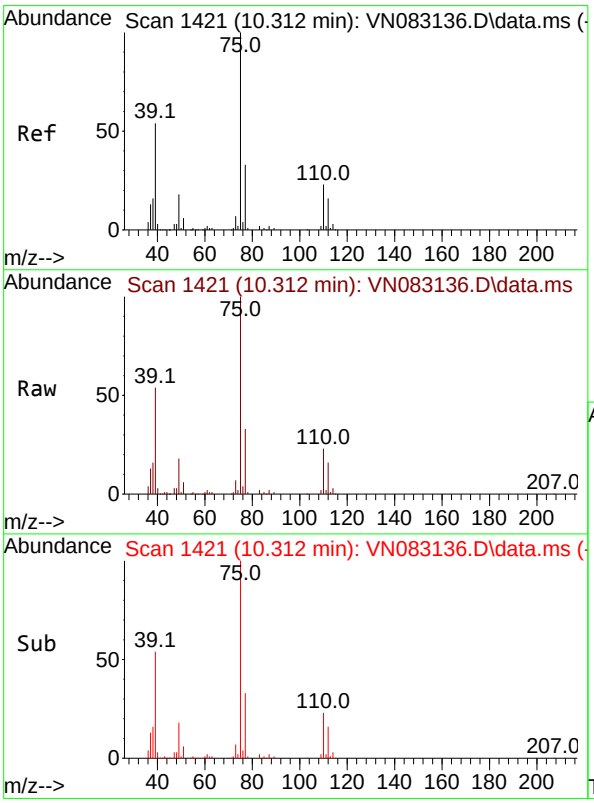
Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

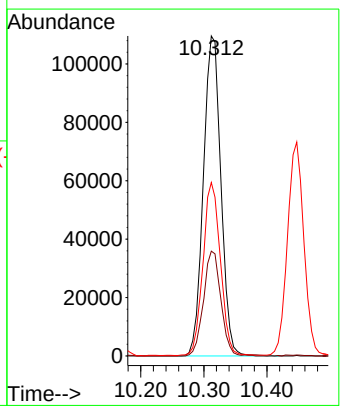
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

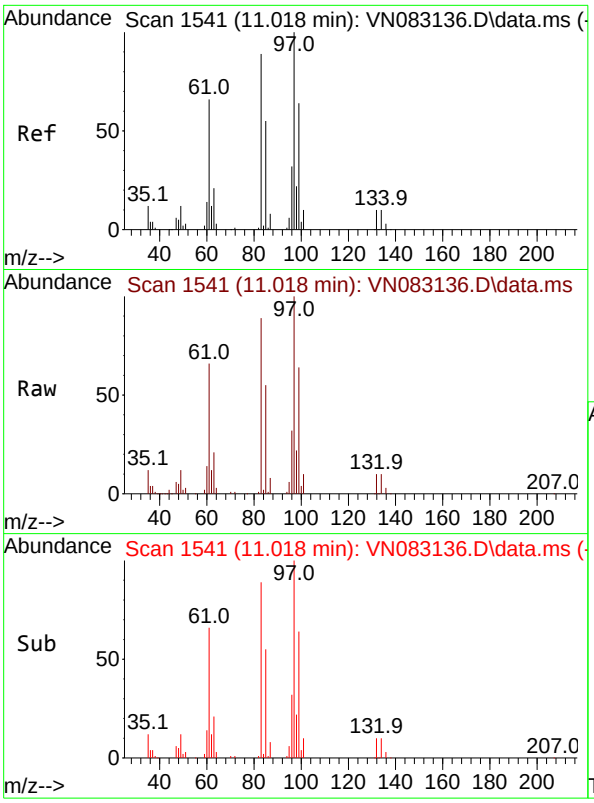


#54
cis-1,3-Dichloropropene
Concen: 51.692 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

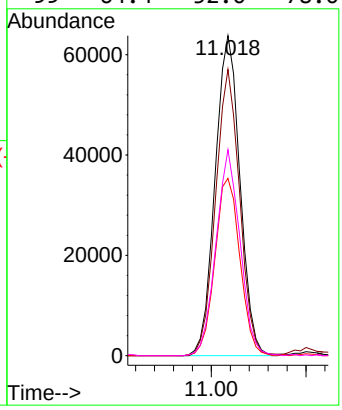




#55
1,1,2-Trichloroethane
Concen: 52.387 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 97 Resp: 11638

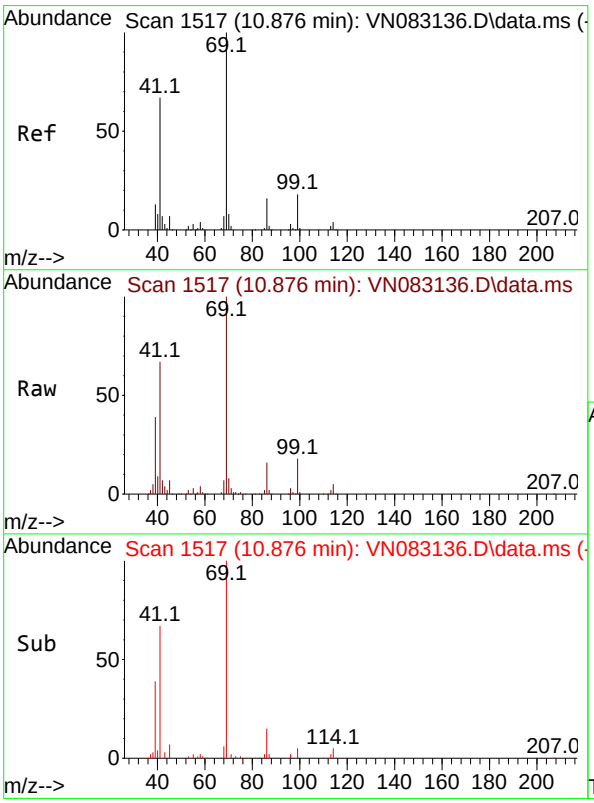
Ion	Ratio	Lower	Upper
97	100		
83	89.4	71.4	107.0
85	55.4	45.8	68.6
99	64.4	52.0	78.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

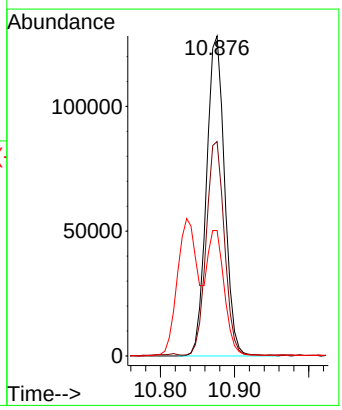
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

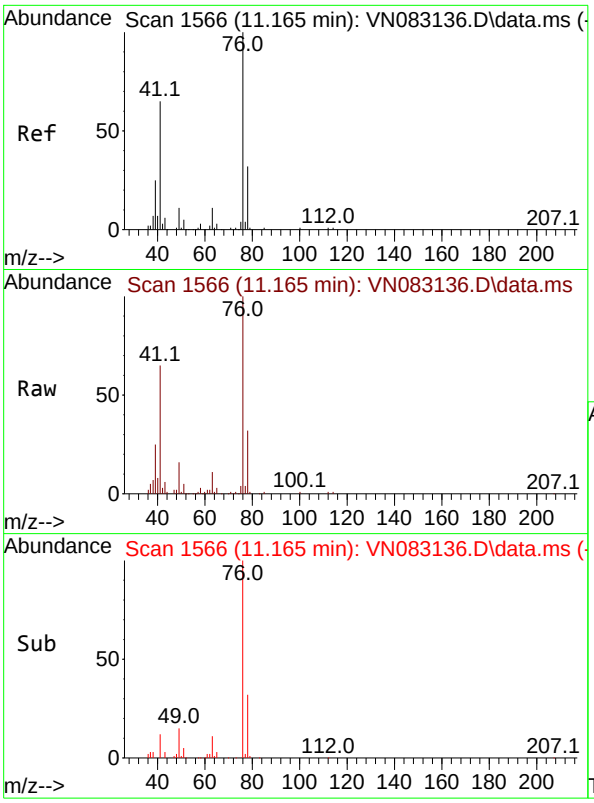


#56
Ethyl methacrylate
Concen: 51.964 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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#

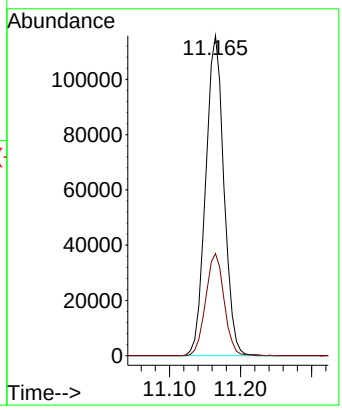




#57
1,3-Dichloropropane
Concen: 52.133 ug/l
RT: 11.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 76 Resp: 20644

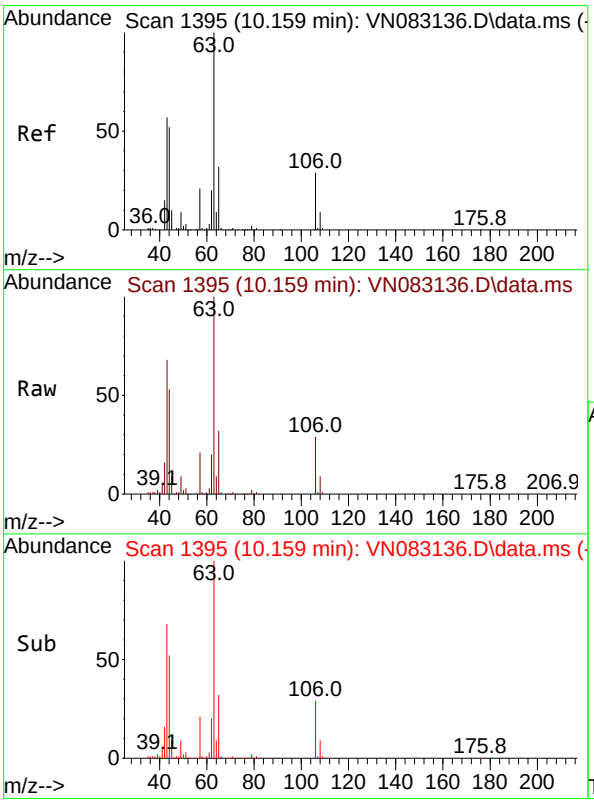
Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

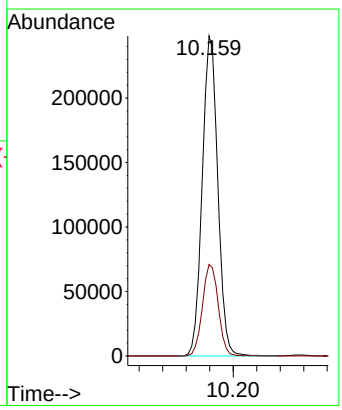
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

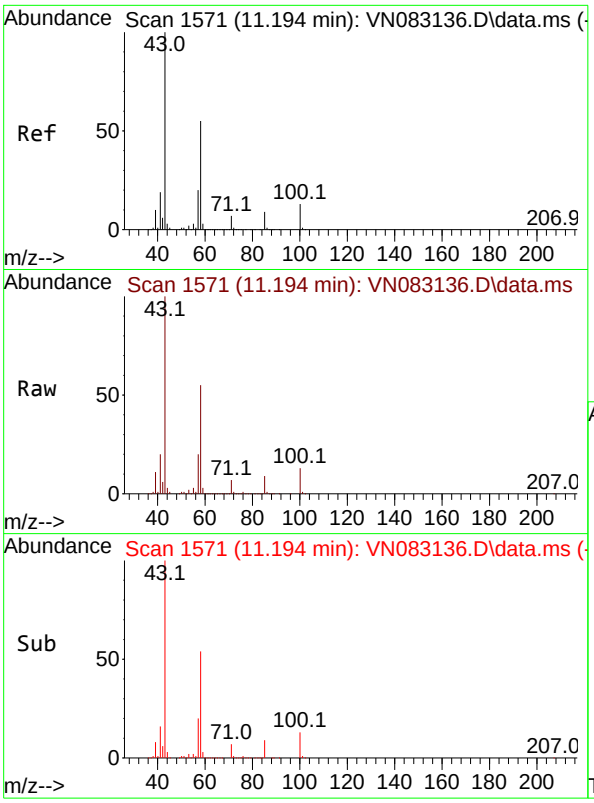


#58
2-Chloroethyl Vinyl ether
Concen: 256.939 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

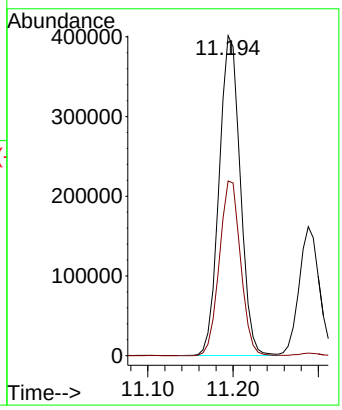
Tgt Ion: 43 Resp: 69170

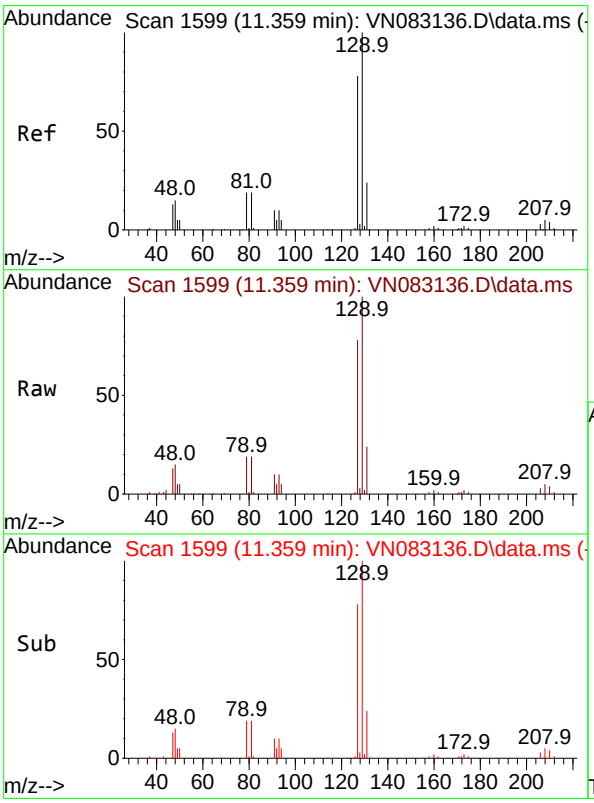
Ion	Ratio	Lower	Upper
43	100		
58	54.9	24.6	73.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

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

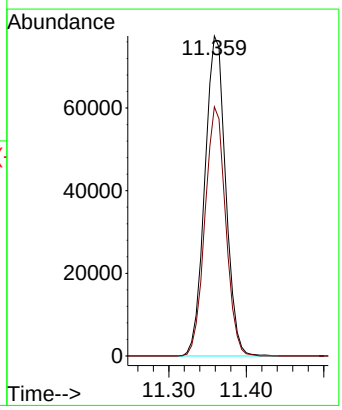


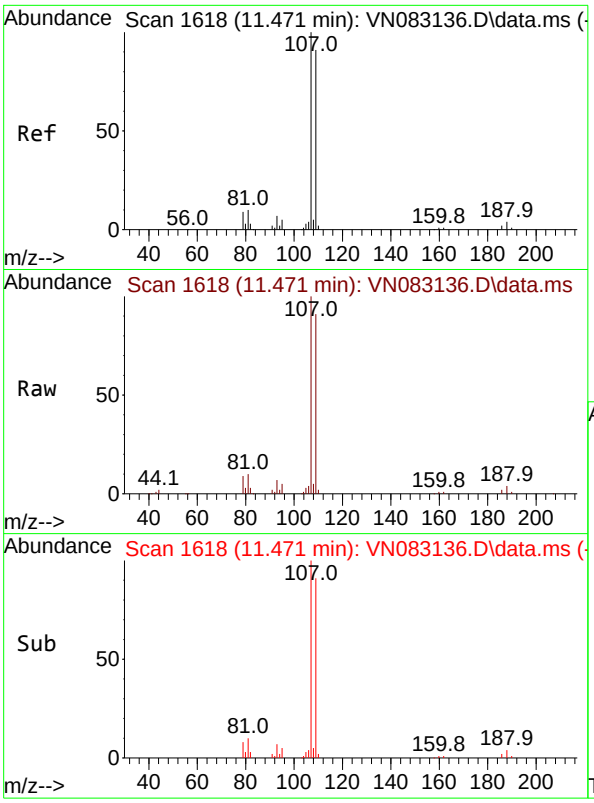


#60
Dibromochloromethane
Concen: 53.688 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

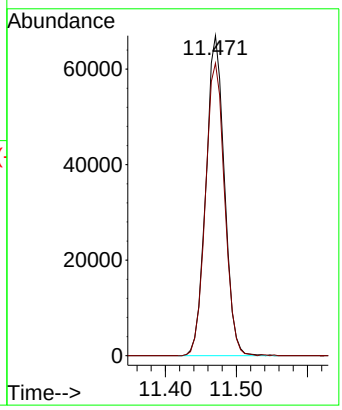
Tgt Ion:107 Resp: 12115

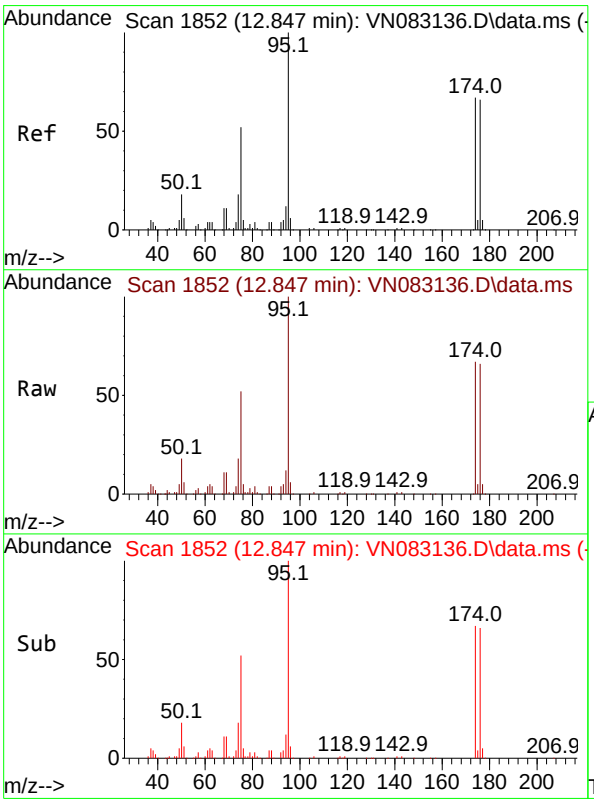
Ion	Ratio	Lower	Upper
107	100		
109	94.4	73.7	110.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

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

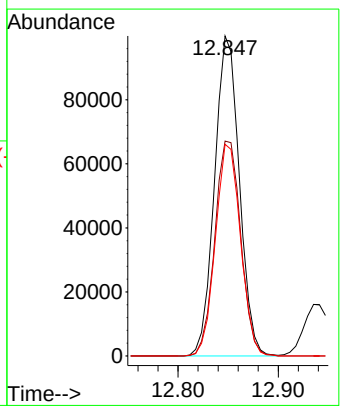


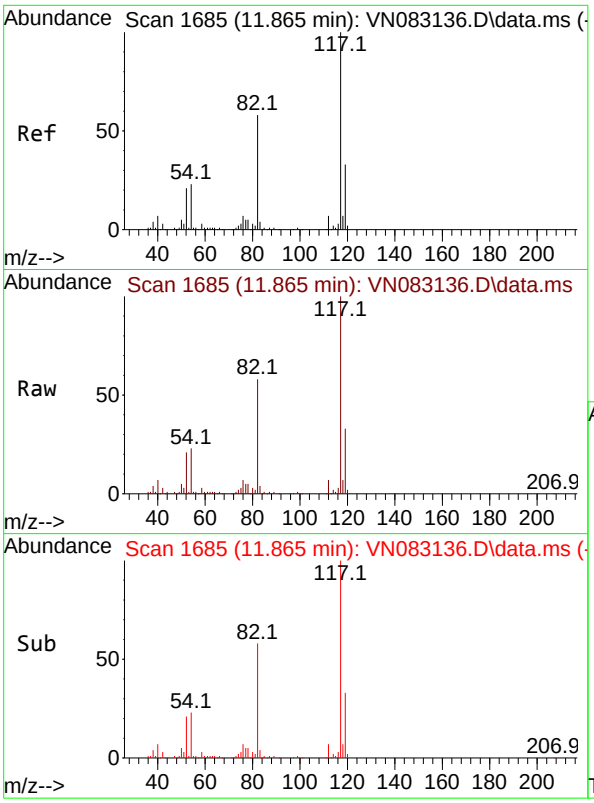


#62
4-Bromofluorobenzene
Concen: 54.173 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

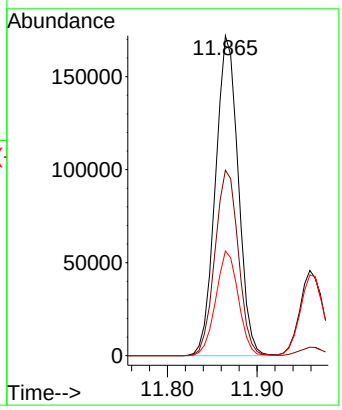
Tgt Ion:117 Resp: 30311

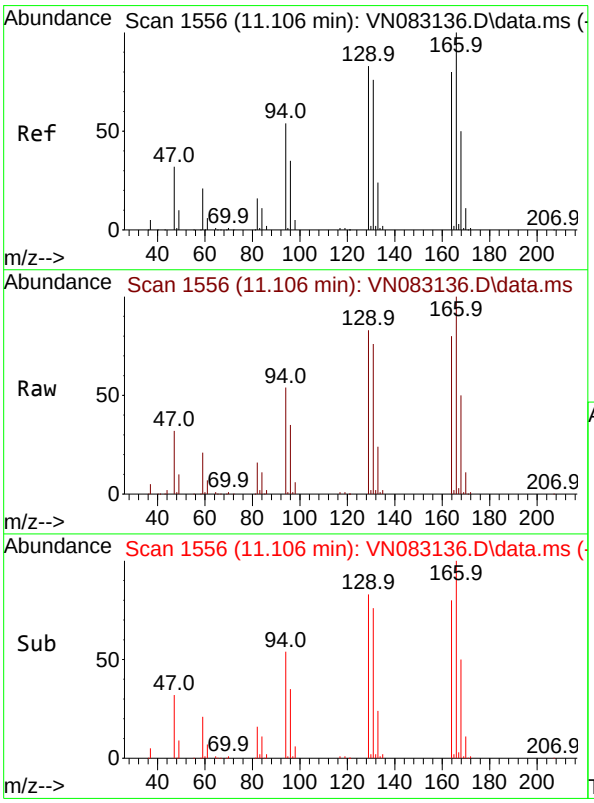
Ion	Ratio	Lower	Upper
117	100		
82	57.9	47.5	71.3
119	32.7	25.6	38.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

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

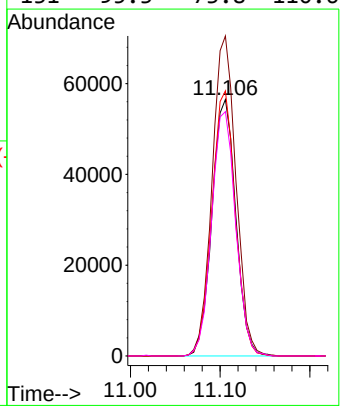


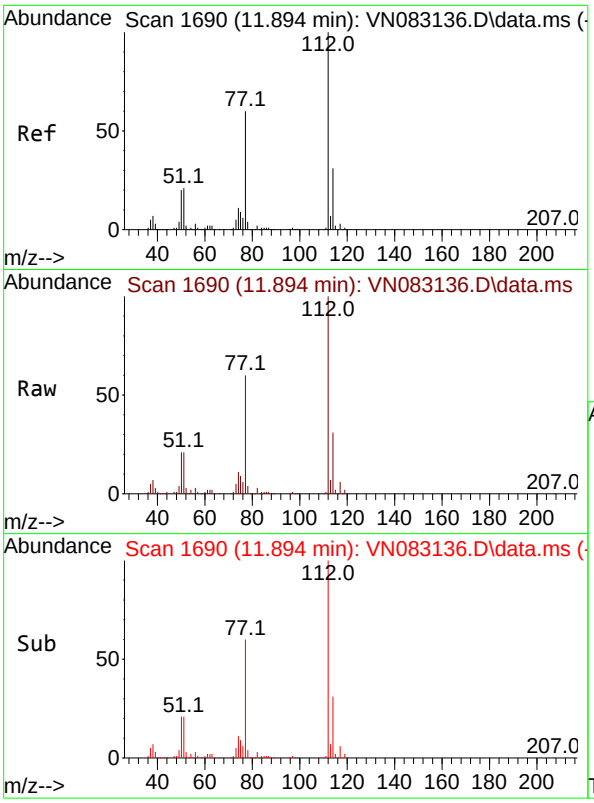


#64
Tetrachloroethene
Concen: 51.784 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

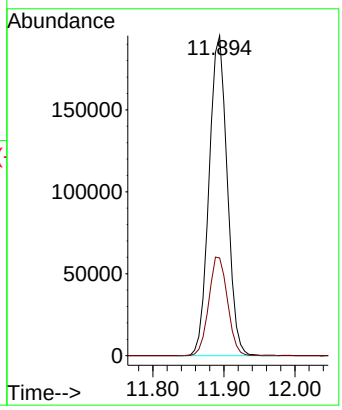
Tgt Ion:112 Resp: 34617

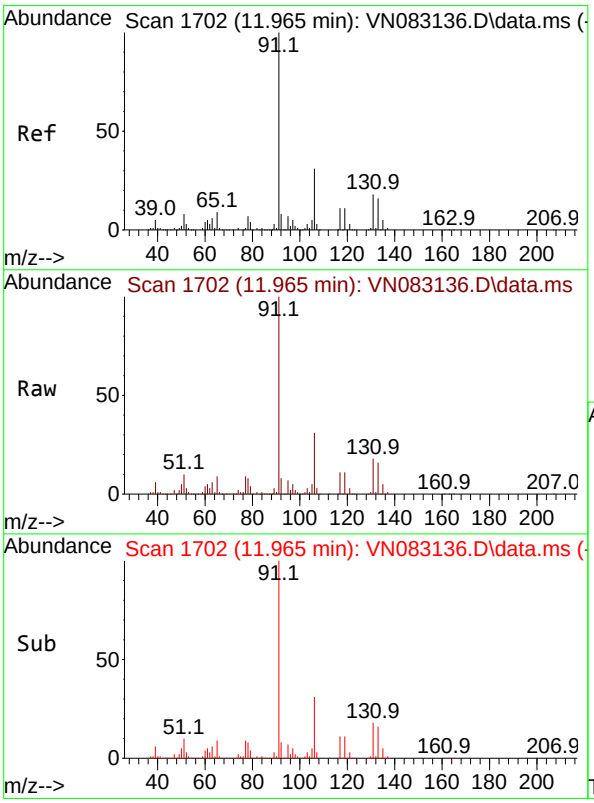
Ion	Ratio	Lower	Upper
112	100		
114	30.6	26.2	39.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

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

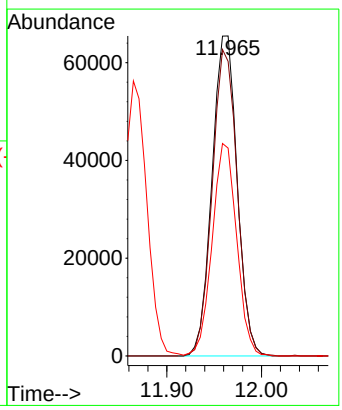


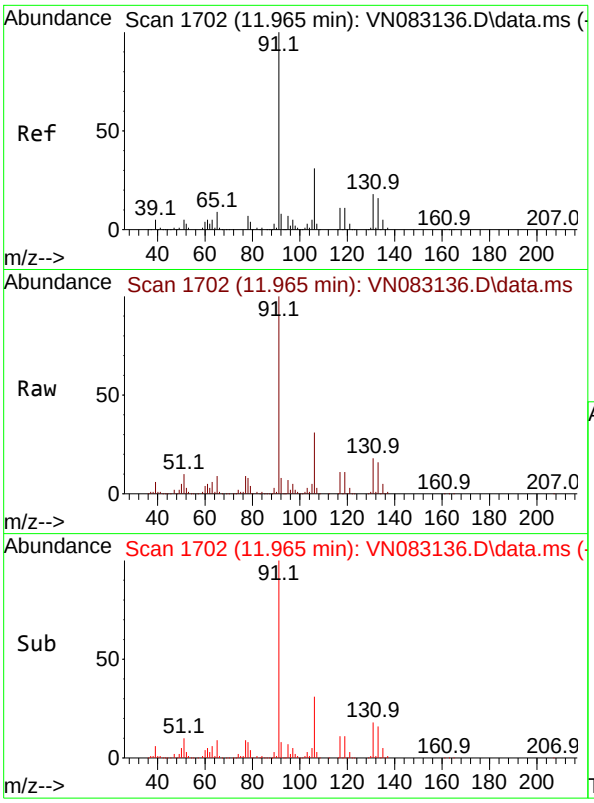


#66
1,1,1,2-Tetrachloroethane
Concen: 51.242 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

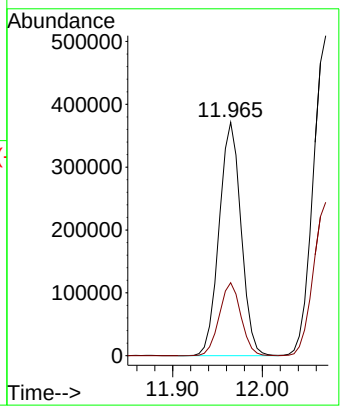
Tgt Ion: 91 Resp: 62890

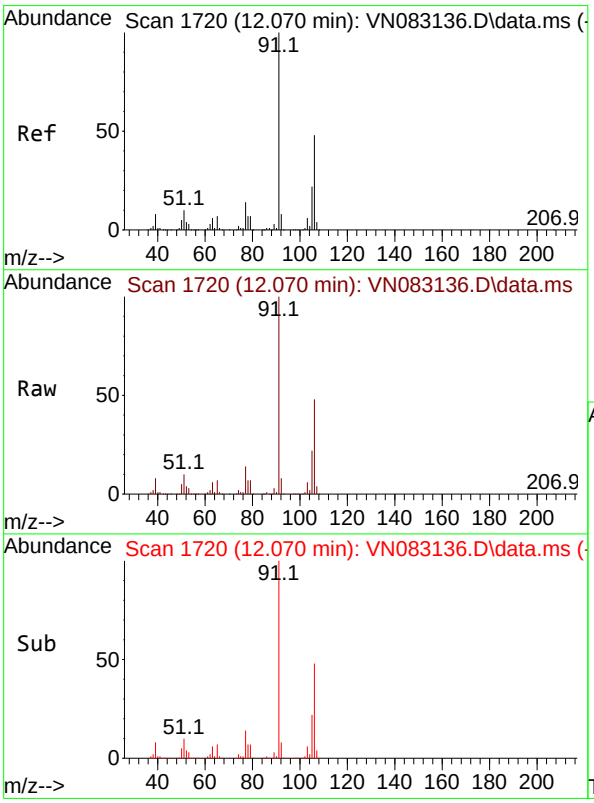
Ion	Ratio	Lower	Upper
91	100		
106	31.3	24.0	36.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

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

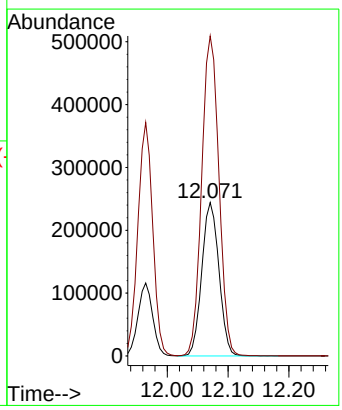


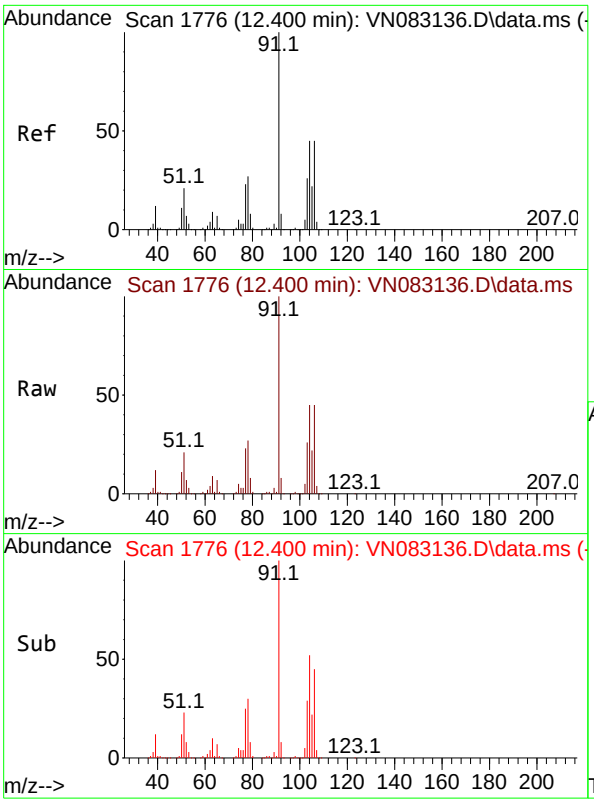


#68
m/p-Xylenes
Concen: 103.683 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

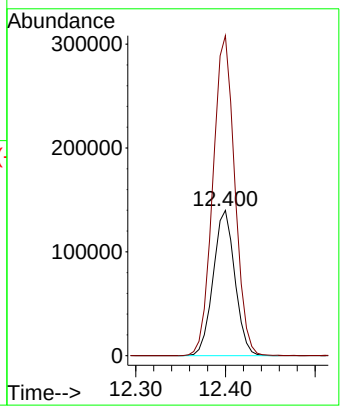
Tgt Ion:106 Resp: 23443

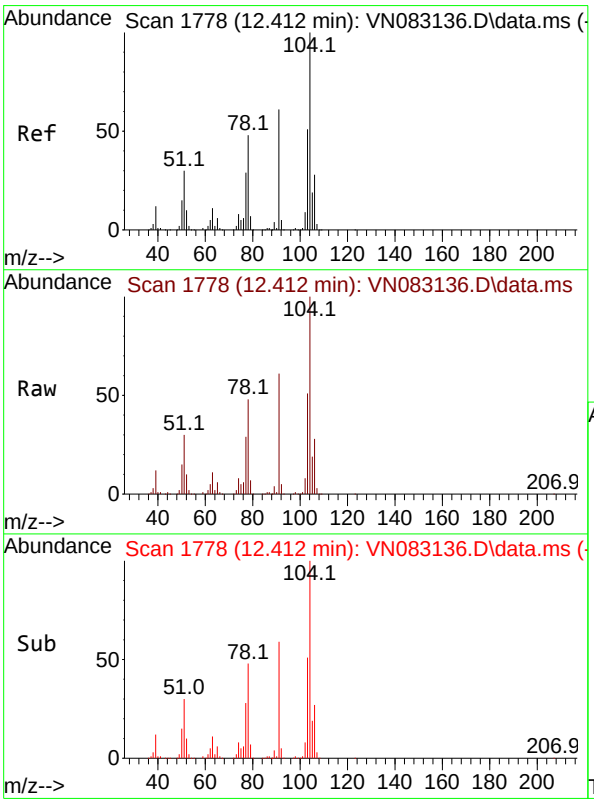
Ion	Ratio	Lower	Upper
106	100		
91	222.4	111.3	333.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

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

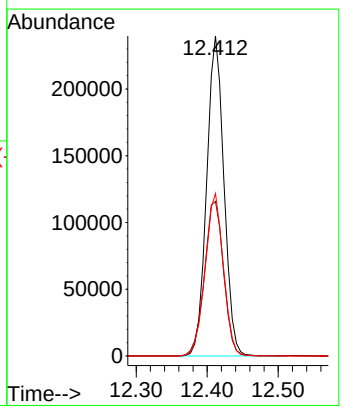


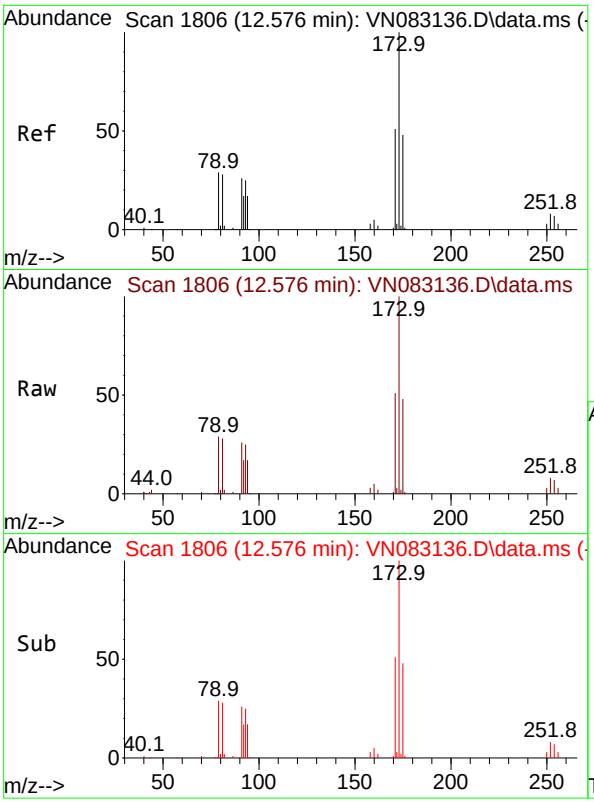


#70
Styrene
Concen: 53.115 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

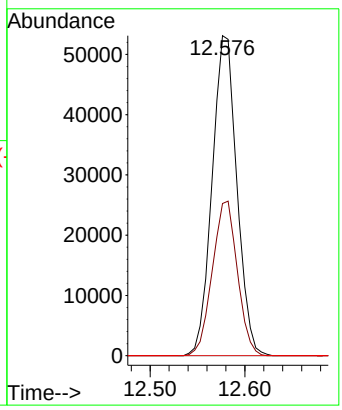




#71
Bromoform
Concen: 53.850 ug/l
RT: 12.576 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:173 Resp: 9637

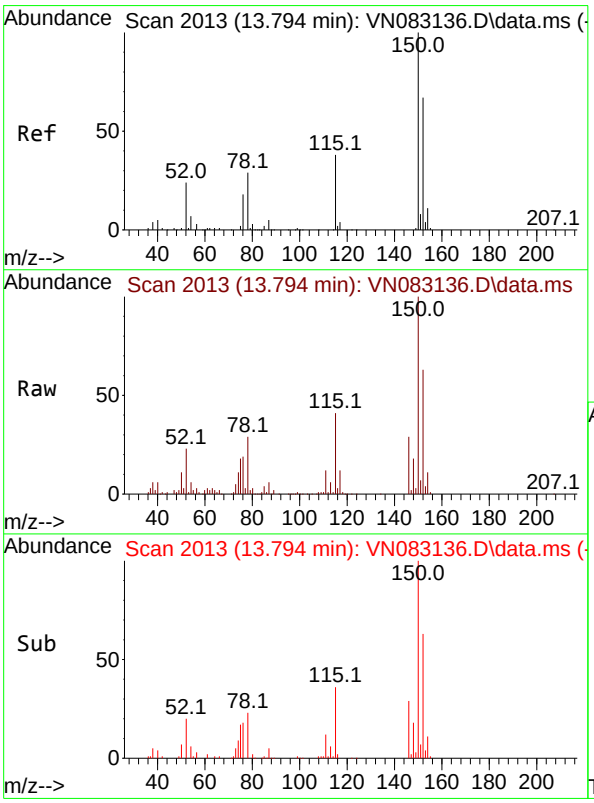
Ion	Ratio	Lower	Upper
173	100		
175	48.9	24.0	72.0
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

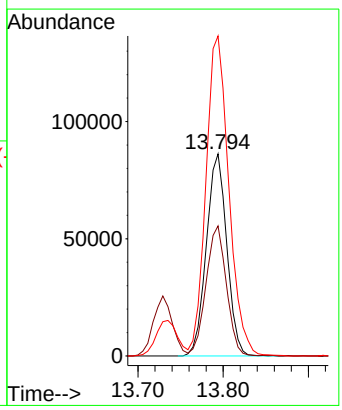
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

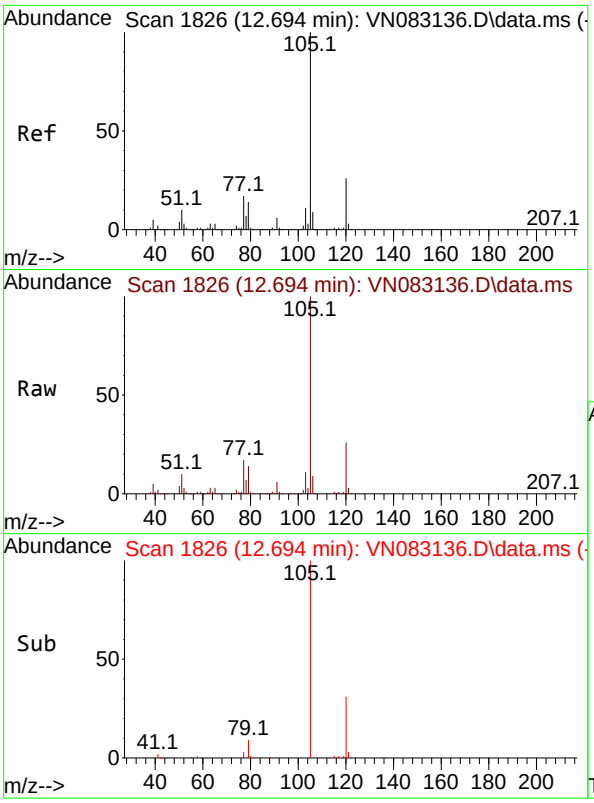


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

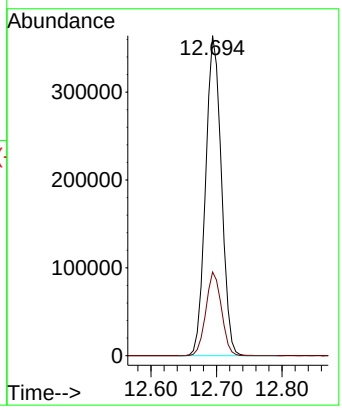
Tgt Ion:105 Resp: 60952

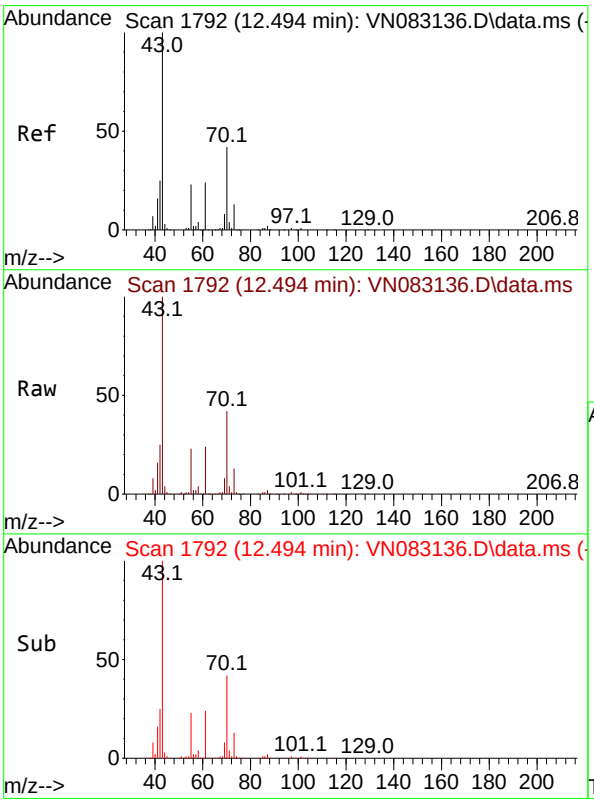
Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.9	38.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

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

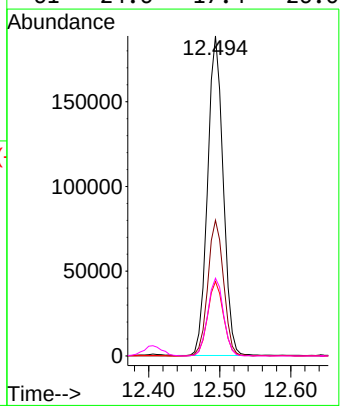


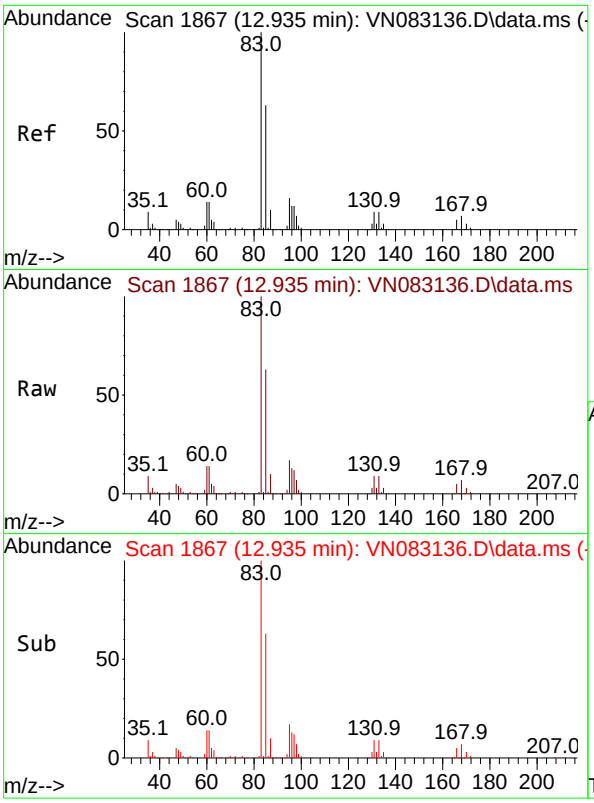


#74
N-amyl acetate
Concen: 48.950 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

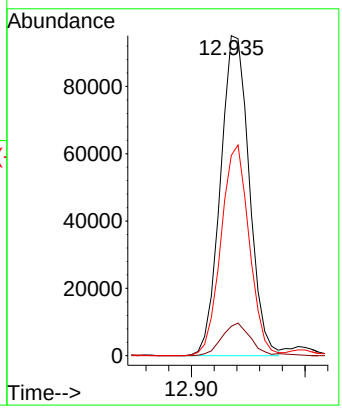
Tgt Ion: 83 Resp: 16748

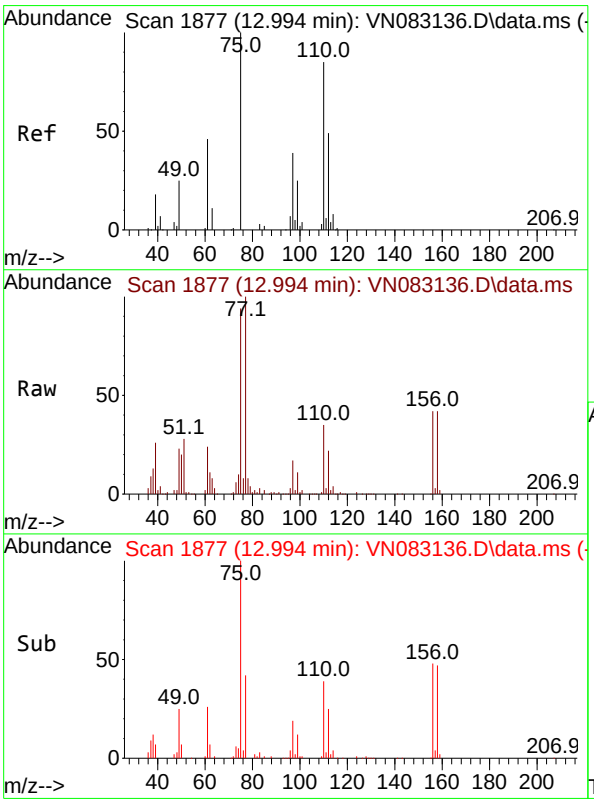
Ion	Ratio	Lower	Upper
83	100		
131	10.4	5.0	14.9
85	64.4	31.9	95.7

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

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

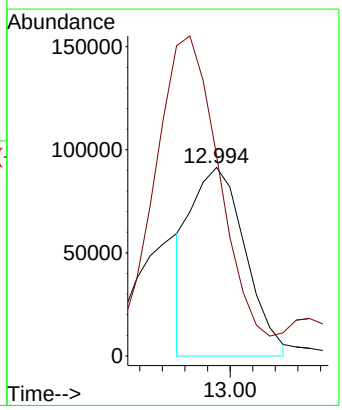


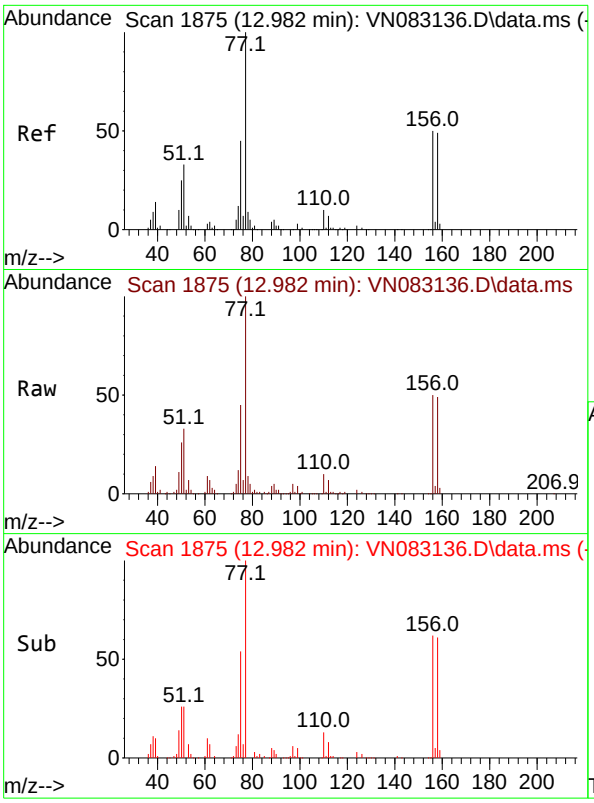


#76
1,2,3-Trichloropropane
Concen: 48.363 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 75 Resp: 152531

Ion	Ratio	Lower	Upper
75	100		
77	207.4	110.9	332.6

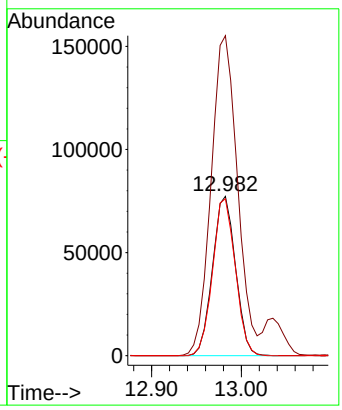




#77
Bromobenzene
Concen: 51.587 ug/l
RT: 12.982 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:156 Resp: 13751

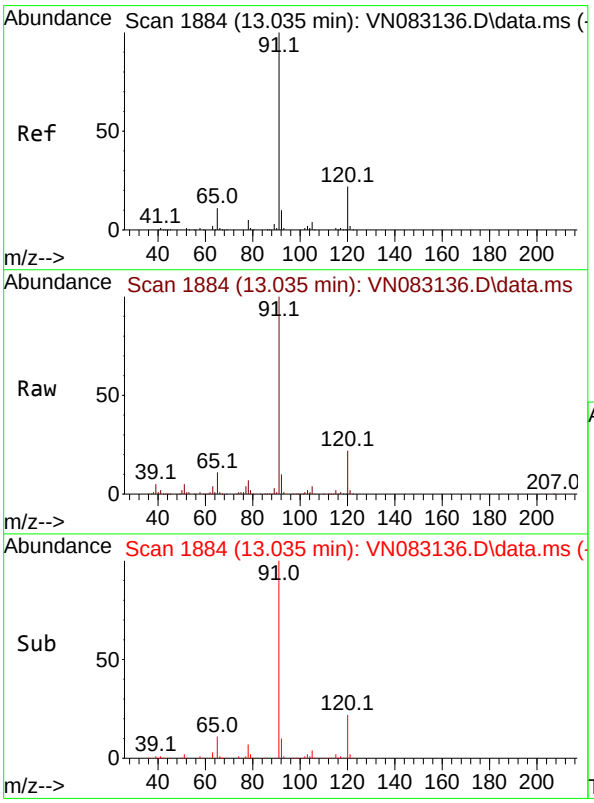
Ion	Ratio	Lower	Upper
156	100		
77	230.1	111.3	333.8
158	97.4	48.3	144.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

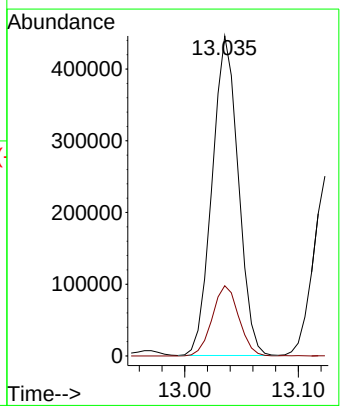
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

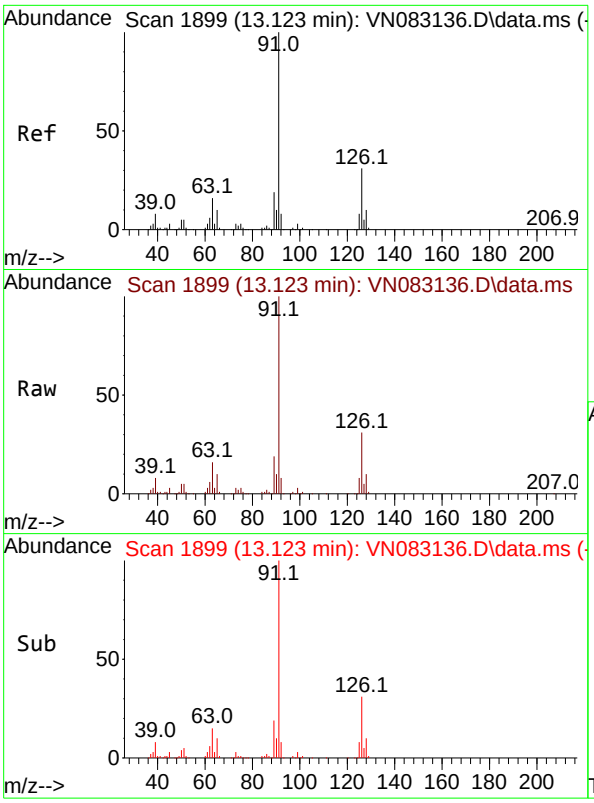


#78
n-propylbenzene
Concen: 51.584 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 91 Resp: 712768

Ion	Ratio	Lower	Upper
91	100		
120	22.3	10.9	32.9

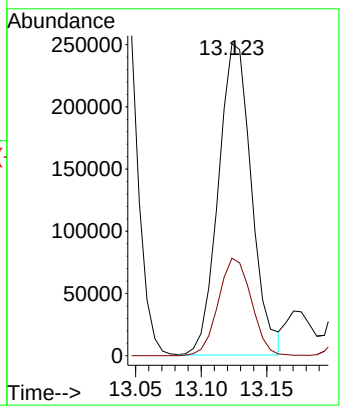




#79
2-Chlorotoluene
Concen: 50.371 ug/l
RT: 13.123 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 91 Resp: 44126

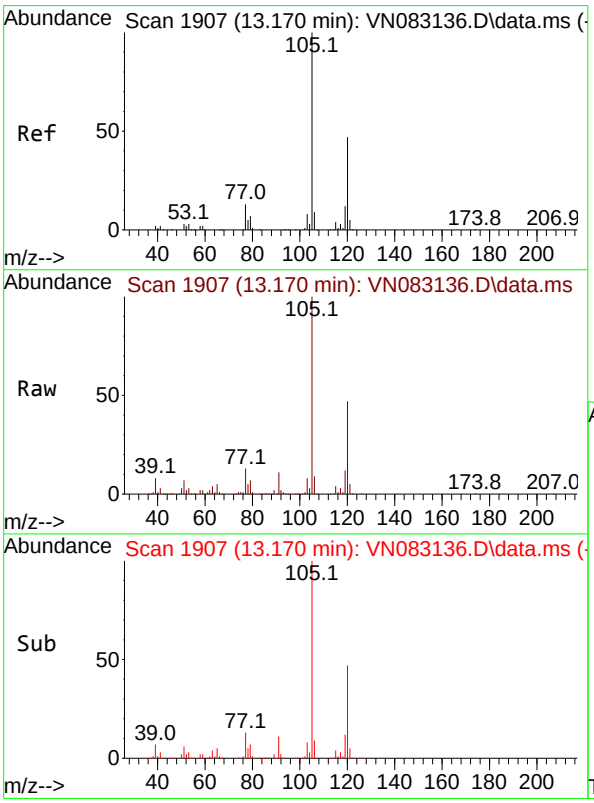
Ion	Ratio	Lower	Upper
91	100		
126	31.1	16.2	48.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

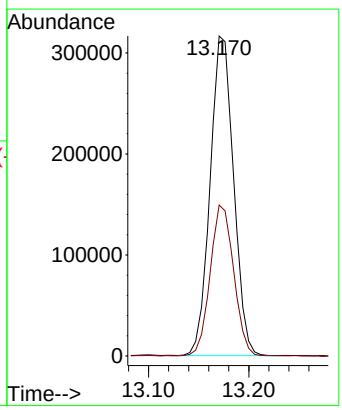
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

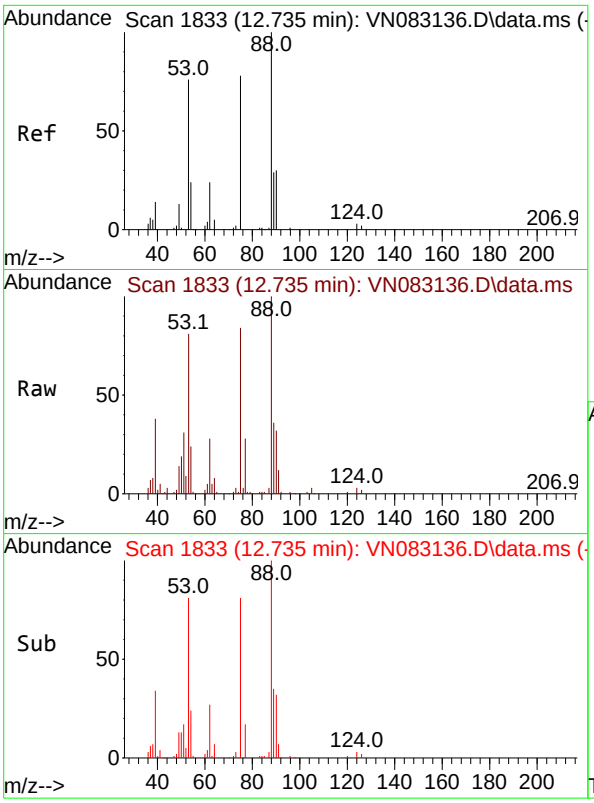


#80
1,3,5-Trimethylbenzene
Concen: 51.254 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:105 Resp: 514918

Ion	Ratio	Lower	Upper
105	100		
120	47.5	24.3	72.8

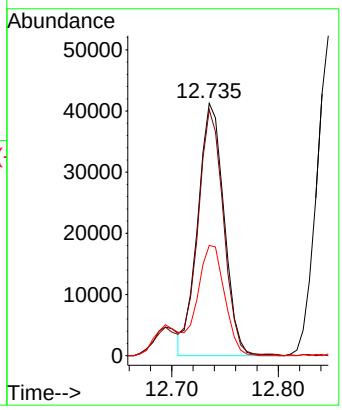




#81
trans-1,4-Dichloro-2-butene
Concen: 48.894 ug/l
RT: 12.735 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 75 Resp: 7077

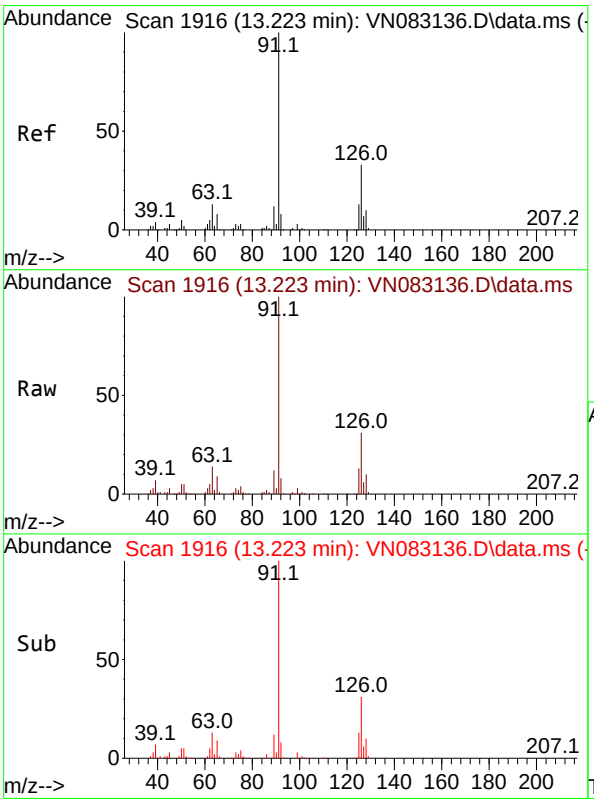
Ion	Ratio	Lower	Upper
75	100		
53	94.2	88.4	132.6
89	44.3	36.3	54.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

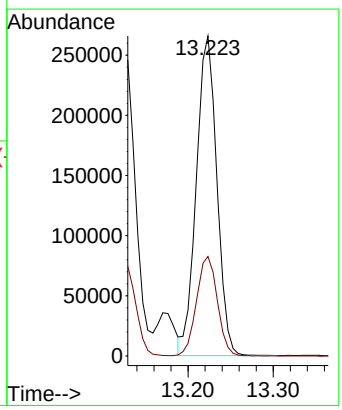
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

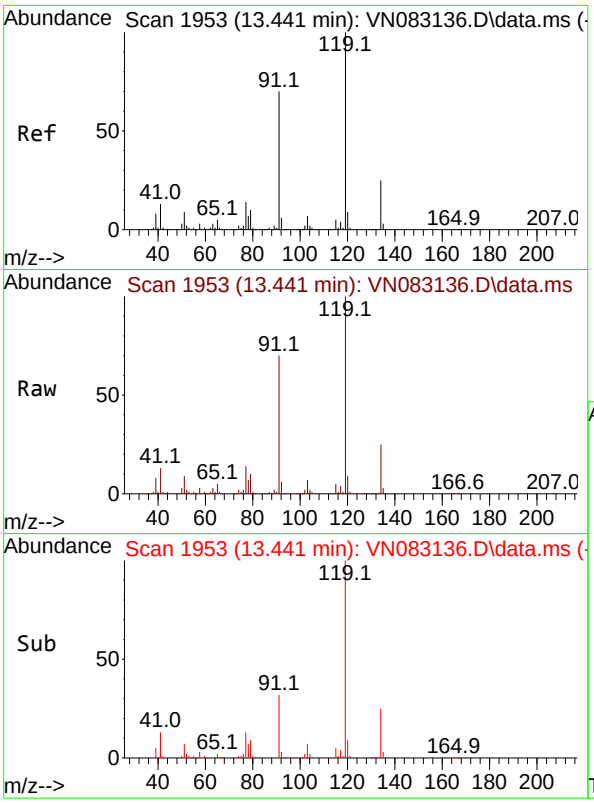


#82
4-Chlorotoluene
Concen: 50.684 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 91 Resp: 445369

Ion	Ratio	Lower	Upper
91	100		
126	31.6	16.2	48.6

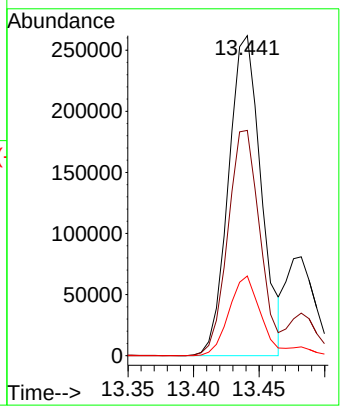




#83
tert-Butylbenzene
Concen: 50.983 ug/l
RT: 13.441 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:119 Resp: 45359

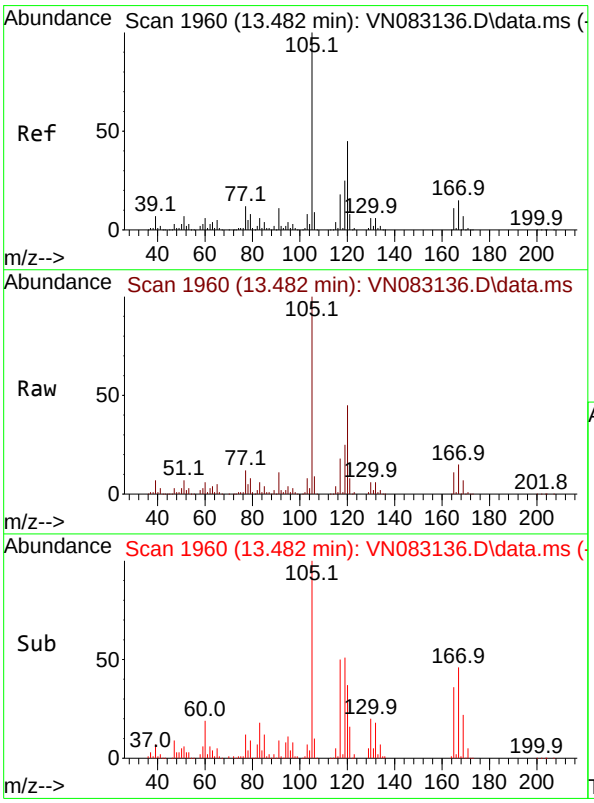
Ion	Ratio	Lower	Upper
119	100		
91	68.9	35.0	105.1
134	24.1	13.3	39.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

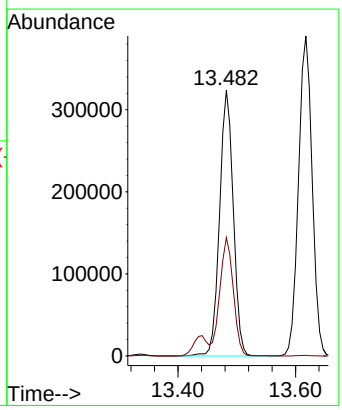
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

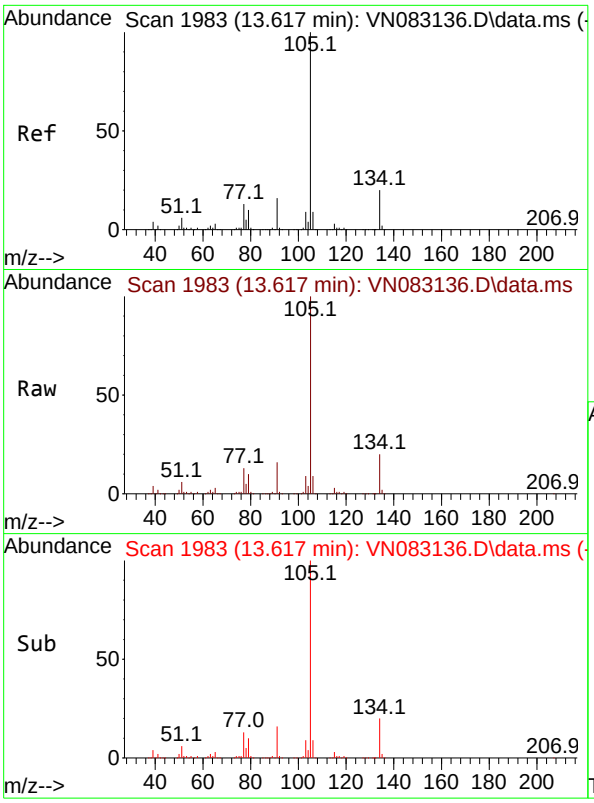


#84
1,2,4-Trimethylbenzene
Concen: 51.778 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

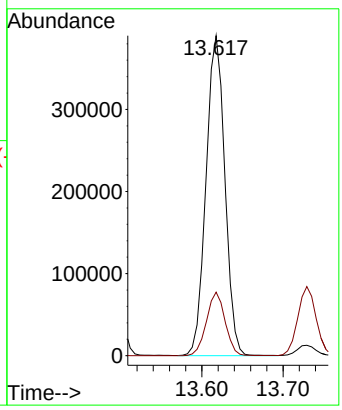
Tgt Ion:105 Resp: 62895

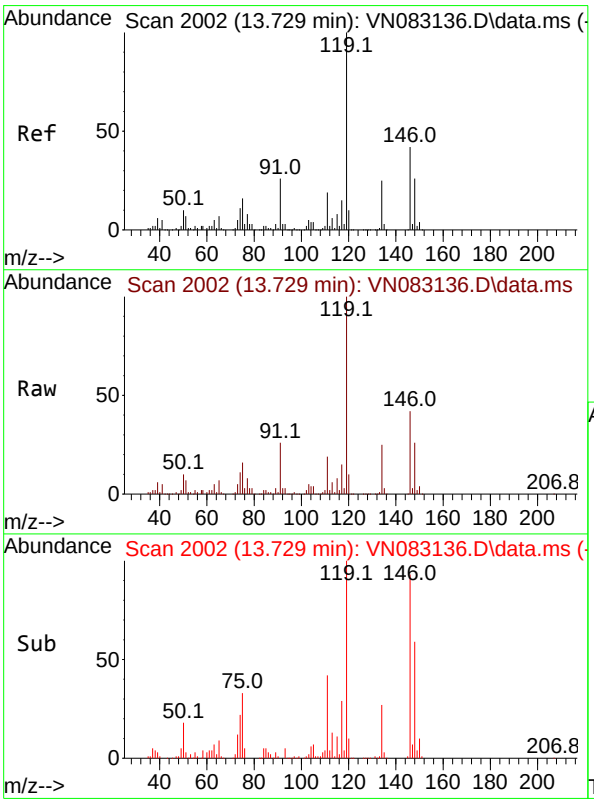
Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

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

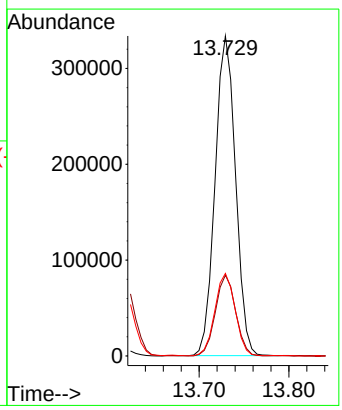


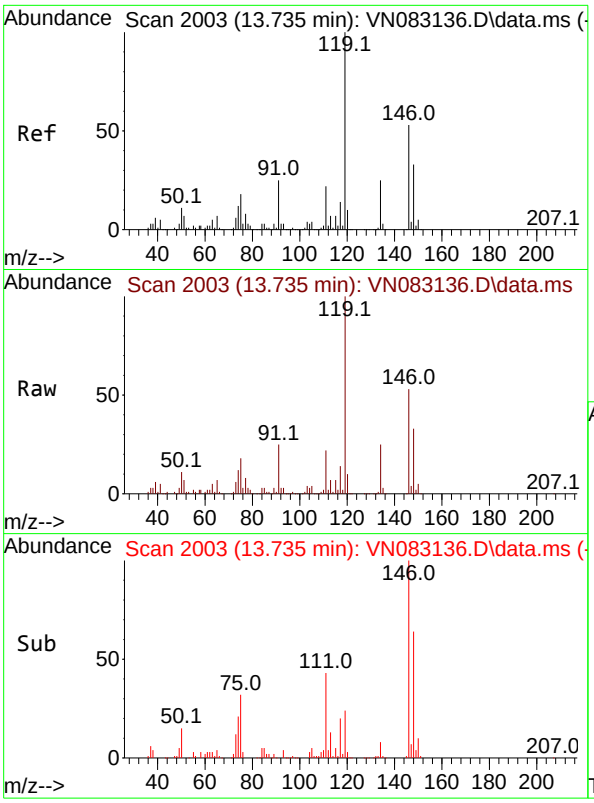


#86
p-Isopropyltoluene
Concen: 52.699 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

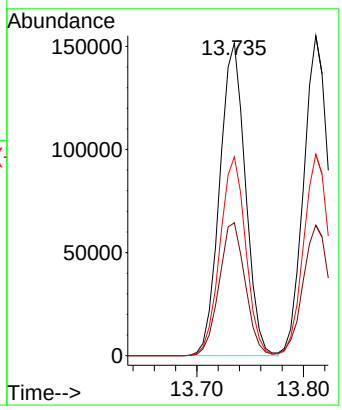




#87
1,3-Dichlorobenzene
Concen: 50.651 ug/l
RT: 13.735 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:146 Resp: 25405

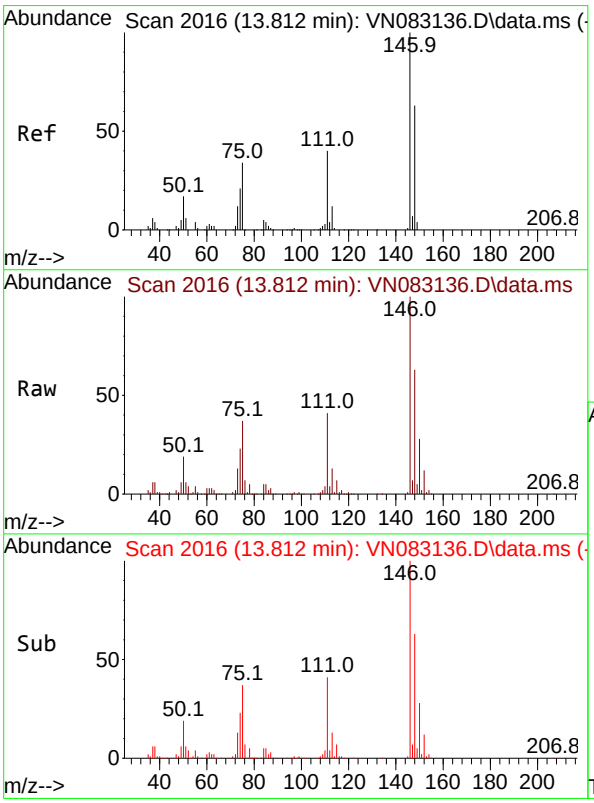
Ion	Ratio	Lower	Upper
146	100		
111	43.1	20.6	61.9
148	63.5	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

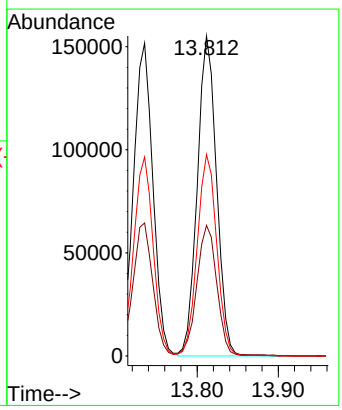
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

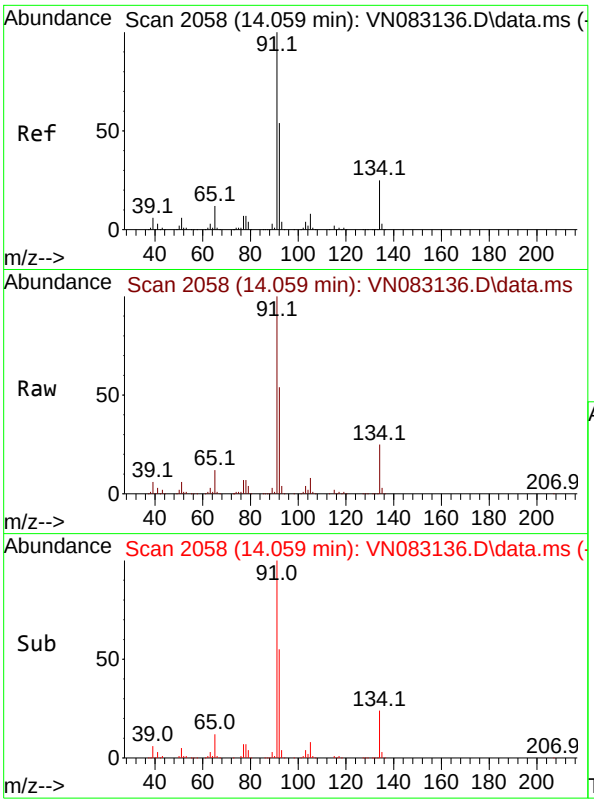


#88
1,4-Dichlorobenzene
Concen: 50.589 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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# 2
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

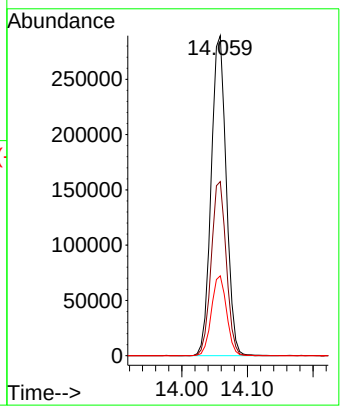
Tgt Ion: 91 Resp: 46137

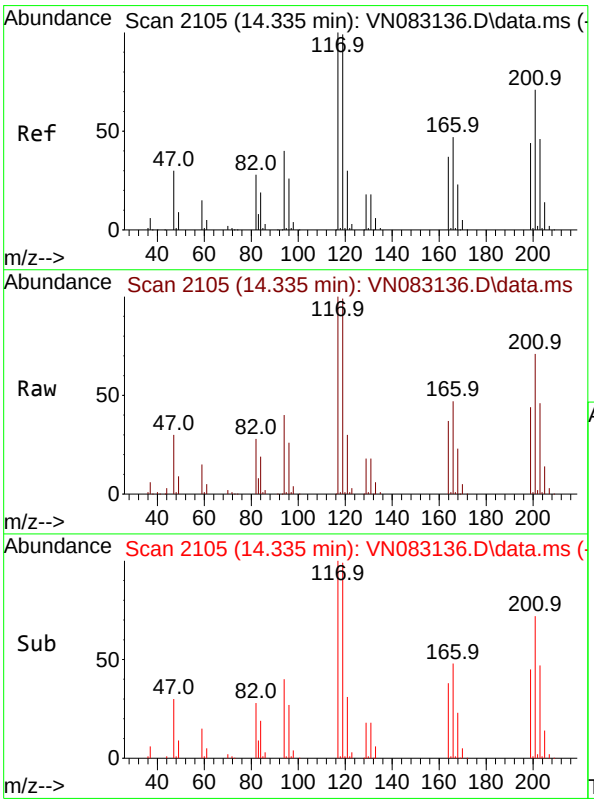
Ion	Ratio	Lower	Upper
91	100		
92	54.4	26.1	78.3
134	25.1	12.1	36.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

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

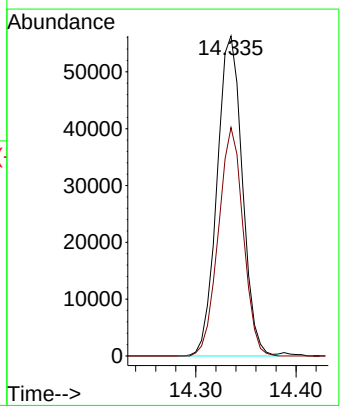


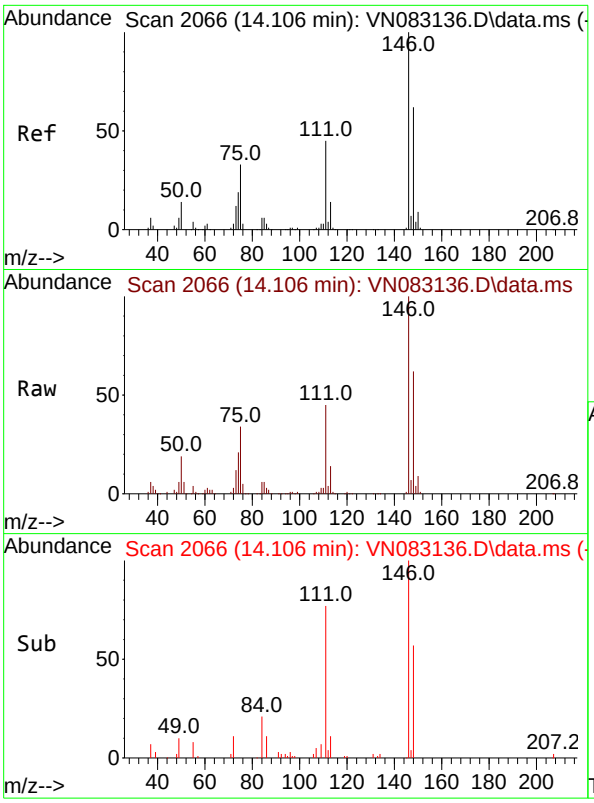


#90
Hexachloroethane
Concen: 51.037 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:117 Resp: 98836

Ion	Ratio	Lower	Upper
117	100		
201	69.9	35.8	107.3

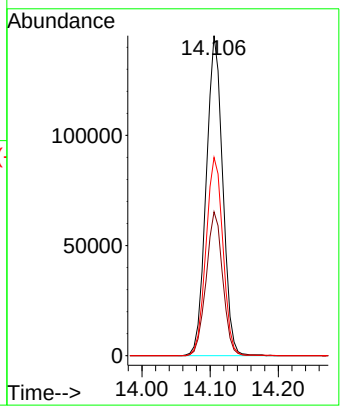




#91
1,2-Dichlorobenzene
Concen: 50.365 ug/l
RT: 14.106 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:146 Resp: 24446

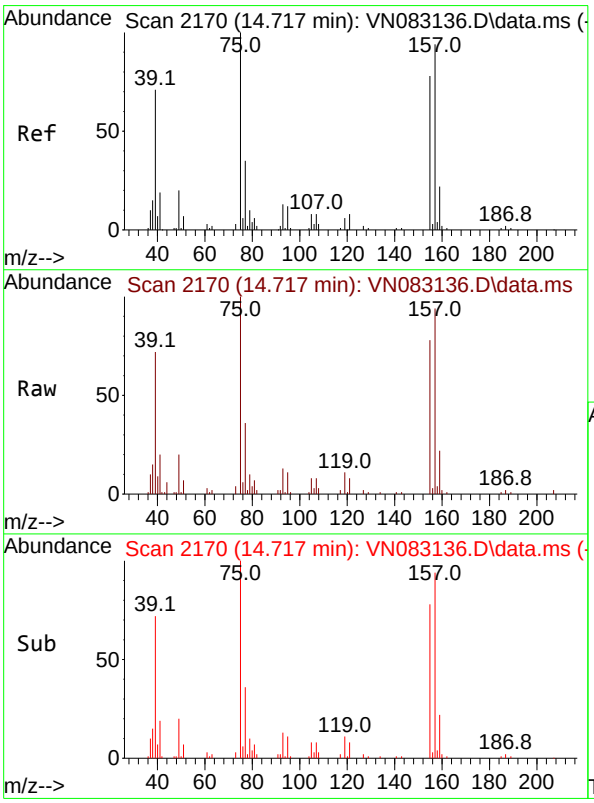
Ion	Ratio	Lower	Upper
146	100		
111	45.3	21.4	64.2
148	63.6	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

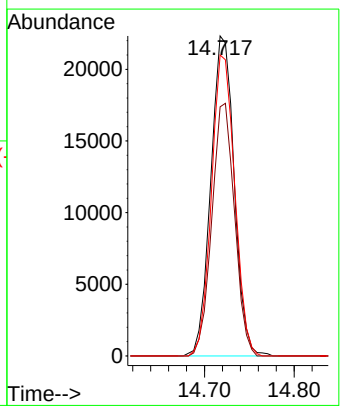
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

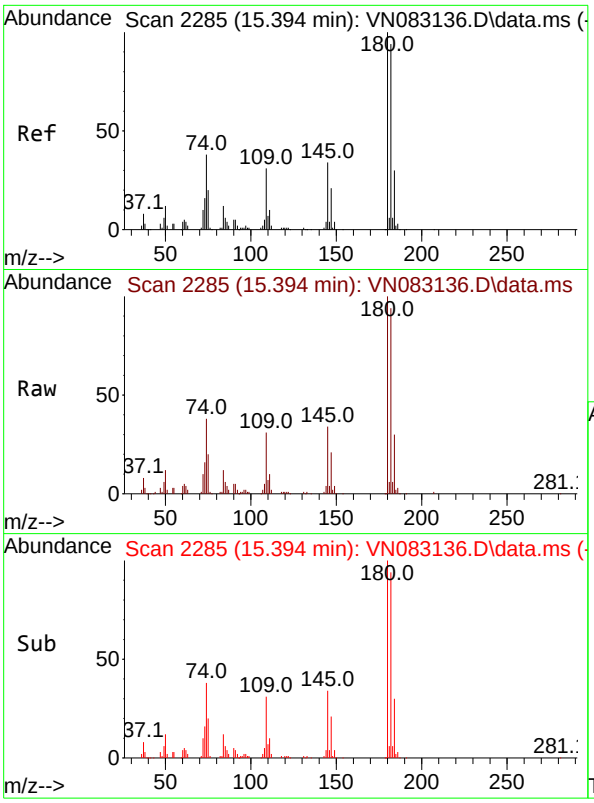


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.017 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

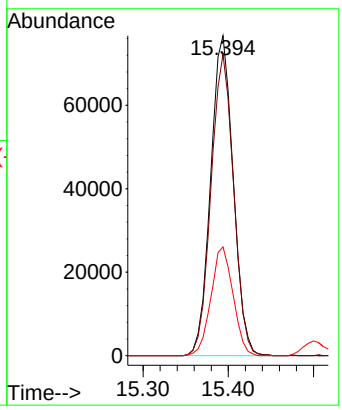




#93
1,2,4-Trichlorobenzene
Concen: 51.937 ug/l
RT: 15.394 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:180 Resp: 14122

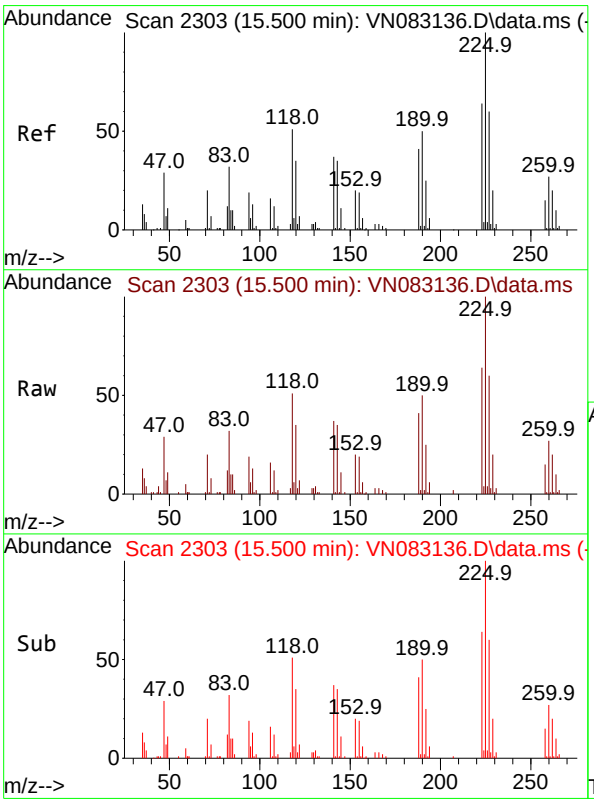
Ion	Ratio	Lower	Upper
180	100		
182	94.1	47.3	141.8
145	33.3	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

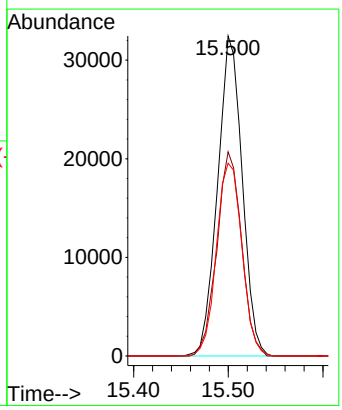
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

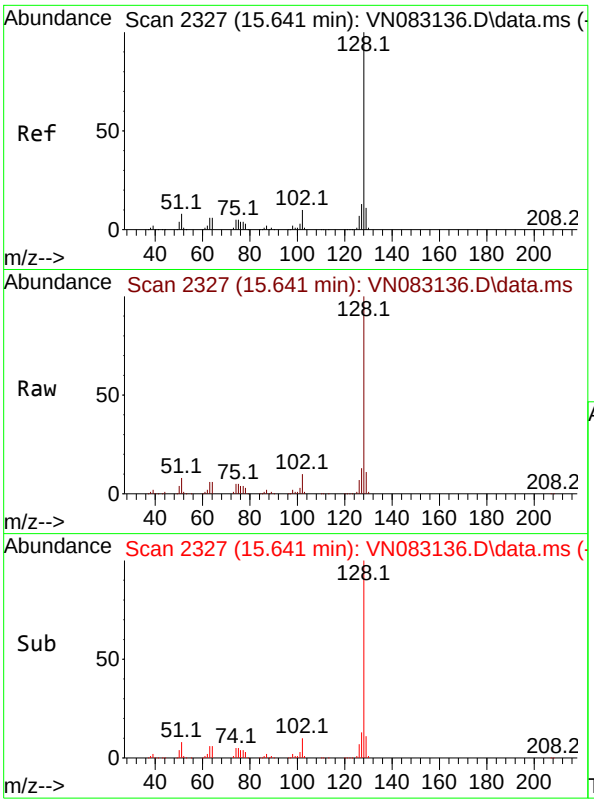


#94
Hexachlorobutadiene
Concen: 48.509 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

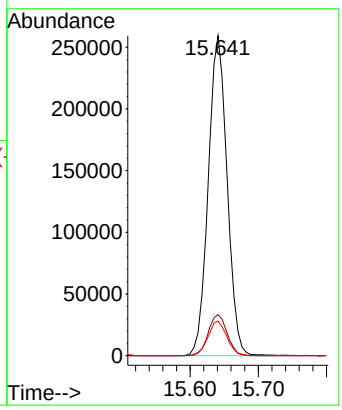




#95
Naphthalene
Concen: 51.844 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:128 Resp: 49937

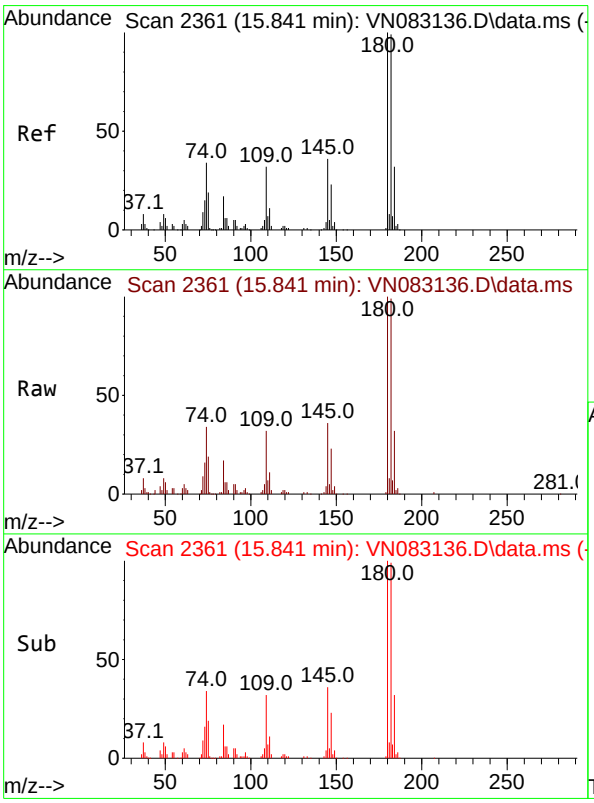
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.6	16.0
129	10.7	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

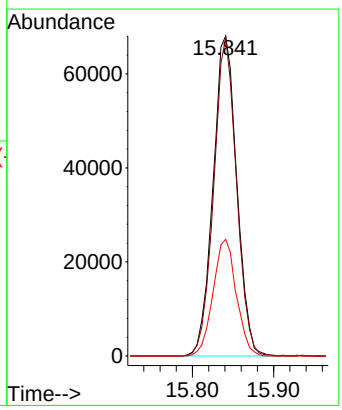
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#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



Quantitation Report (QT Reviewed)

ICAL Form

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

ICAL Form

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

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

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	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

ICAL Form

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

ICAL Form

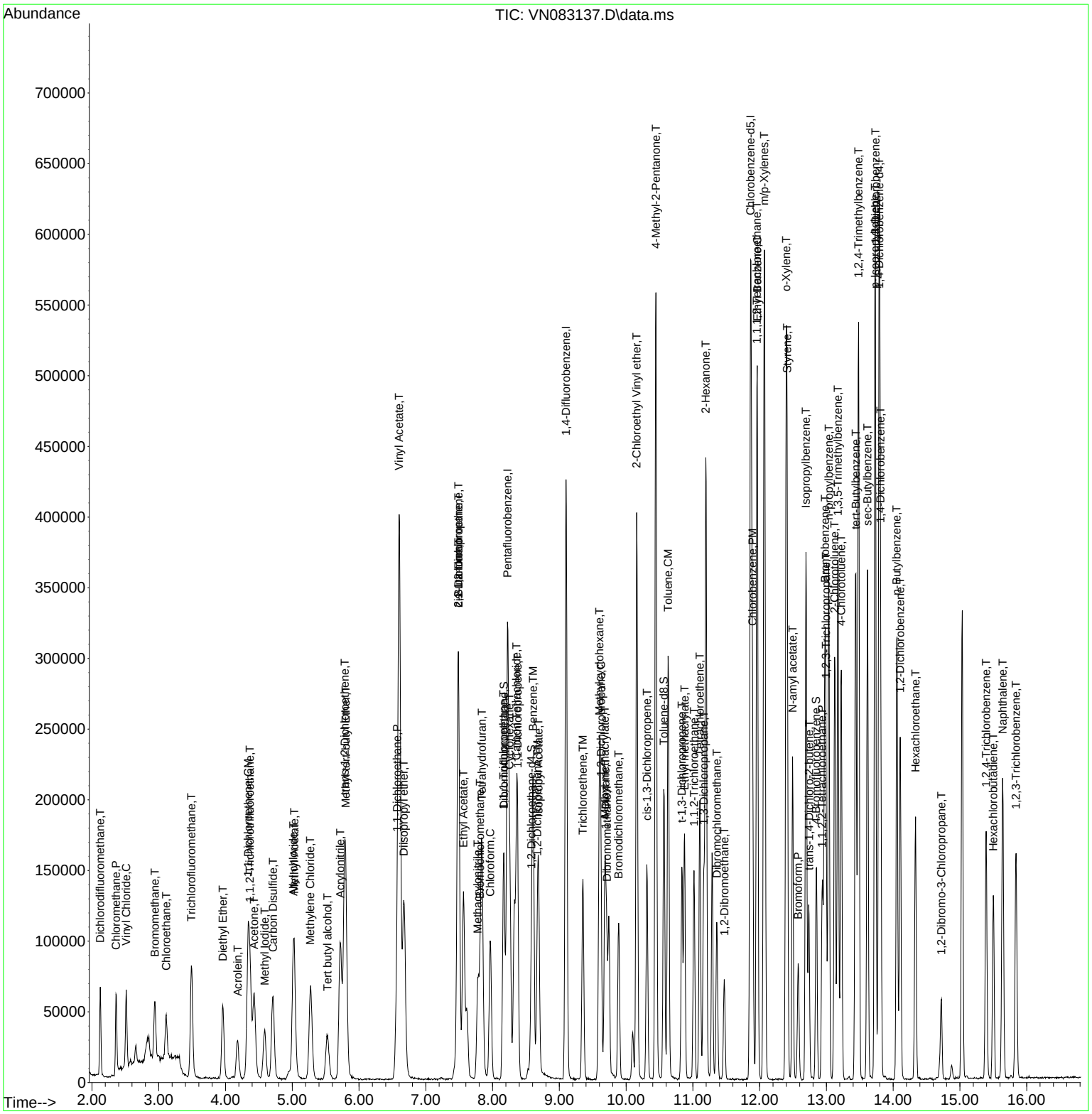
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083137.D
Acq On : 07 Aug 2024 11:22
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

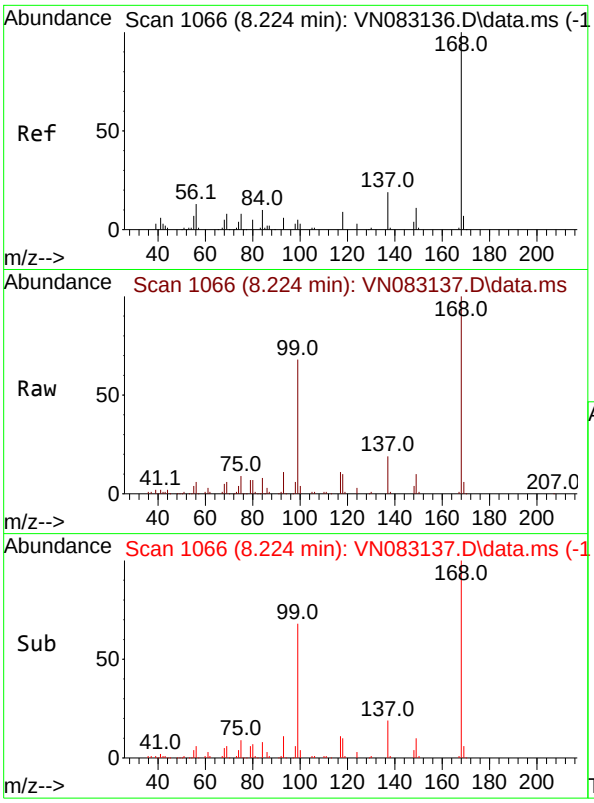
Quant Time: Aug 08 06:16:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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

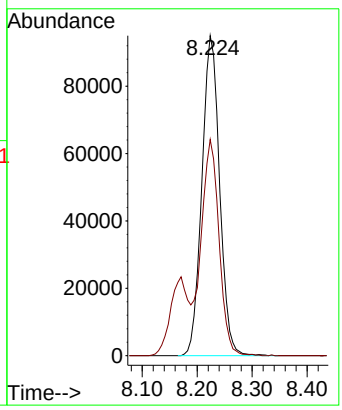




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:168 Resp: 21291

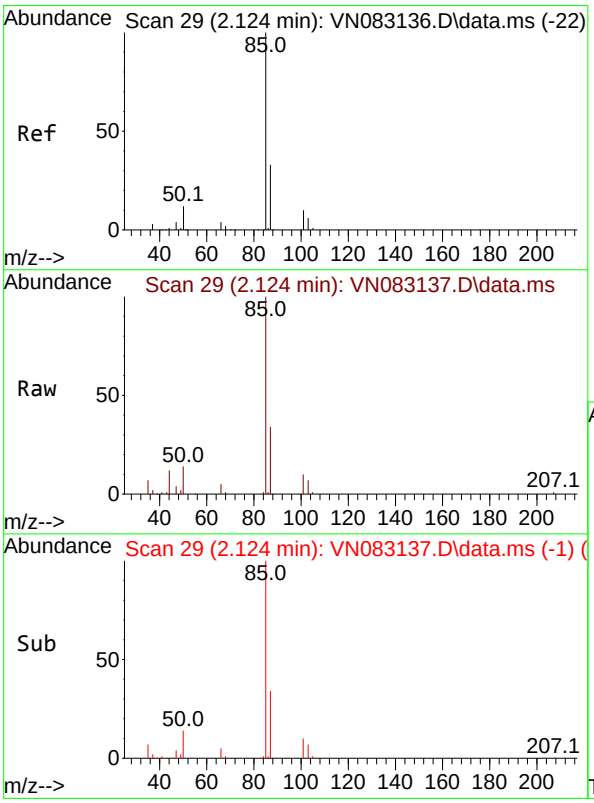
Ion	Ratio	Lower	Upper
168	100		
99	67.5	48.2	72.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

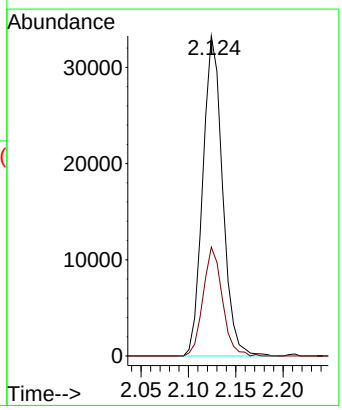
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

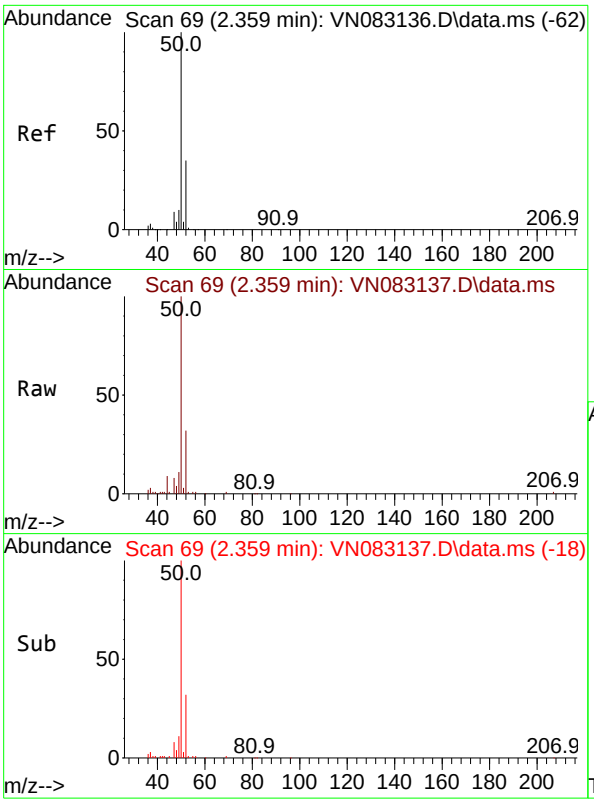


#2
Dichlorodifluoromethane
Concen: 19.959 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 85 Resp: 48191

Ion	Ratio	Lower	Upper
85	100		
87	34.0	15.7	47.0

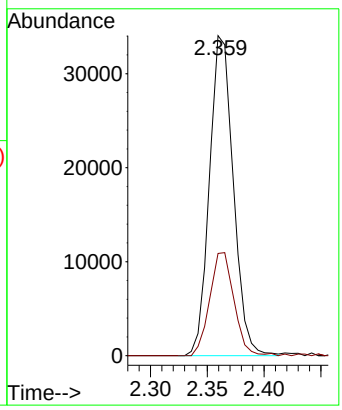




#3
Chloromethane
Concen: 20.137 ug/l
RT: 2.359 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 50 Resp: 4977

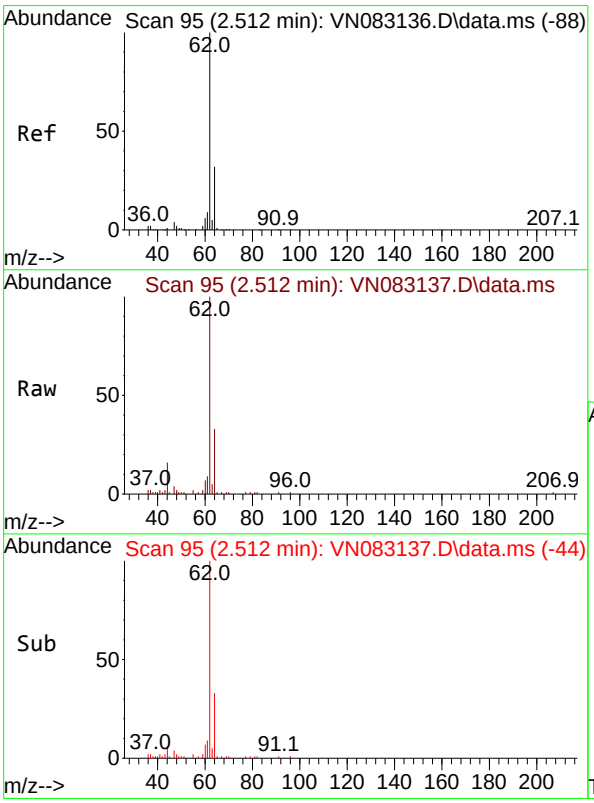
Ion	Ratio	Lower	Upper
50	100		
52	31.9	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

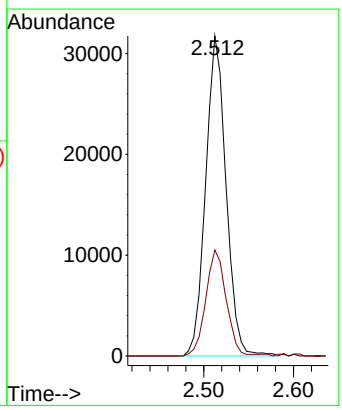
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

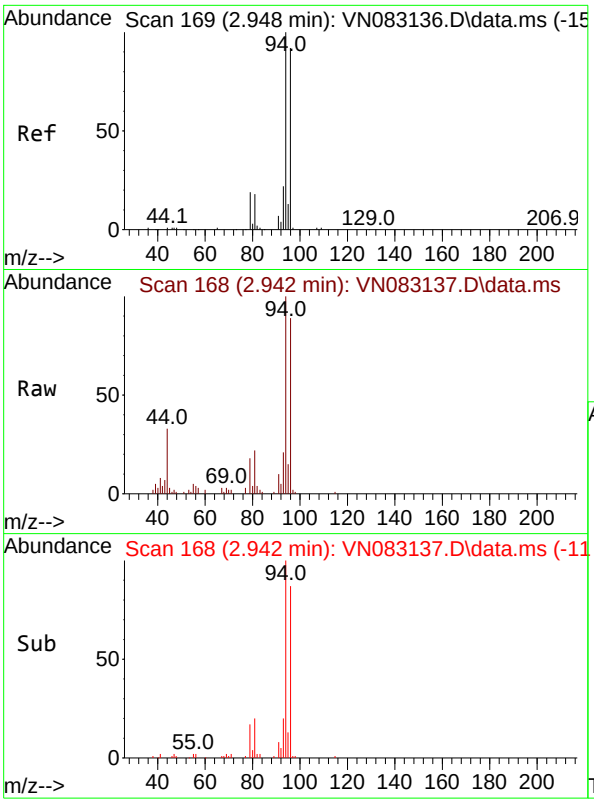


#4
Vinyl Chloride
Concen: 19.866 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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# 1
Delta R.T. -0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

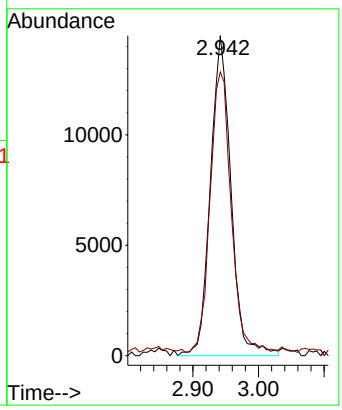
Tgt Ion: 94 Resp: 3152

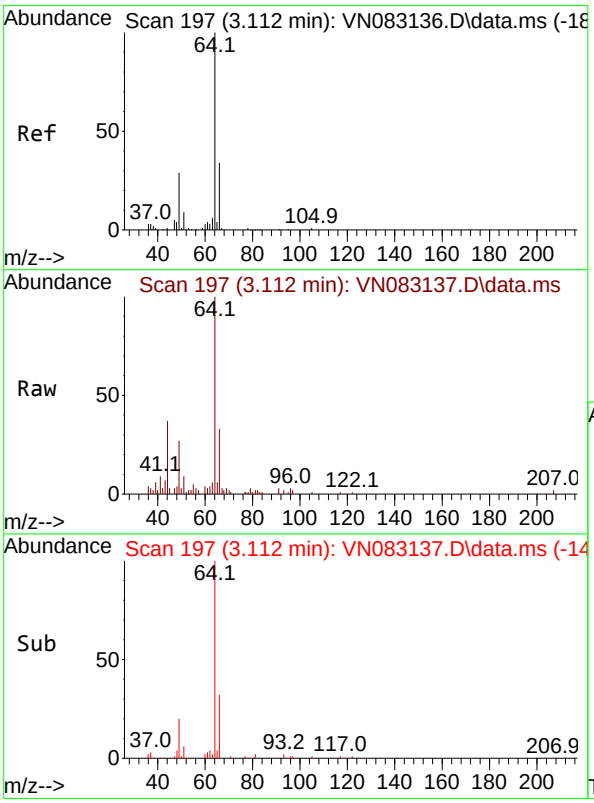
Ion	Ratio	Lower	Upper
94	100		
96	87.1	78.0	117.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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

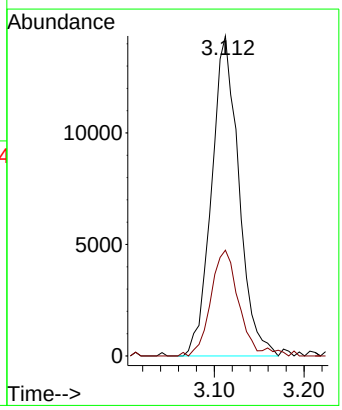


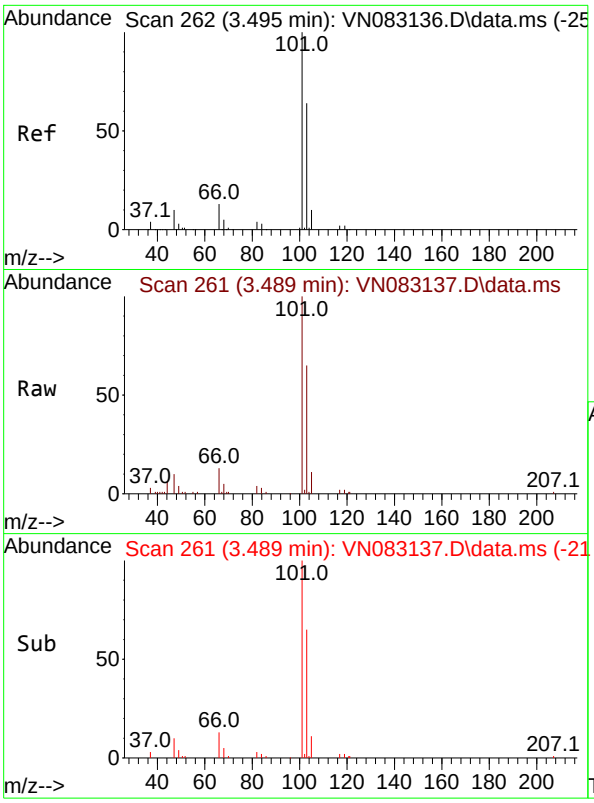


#6
Chloroethane
Concen: 19.221 ug/l
RT: 3.112 min Scan# 197
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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# 2
Delta R.T. -0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

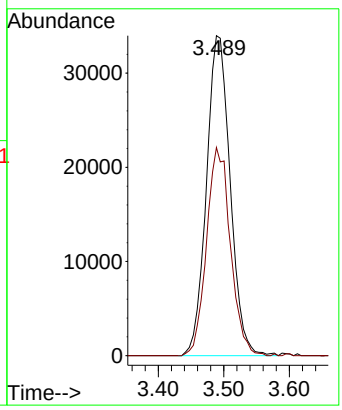
Tgt Ion:101 Resp: 8555

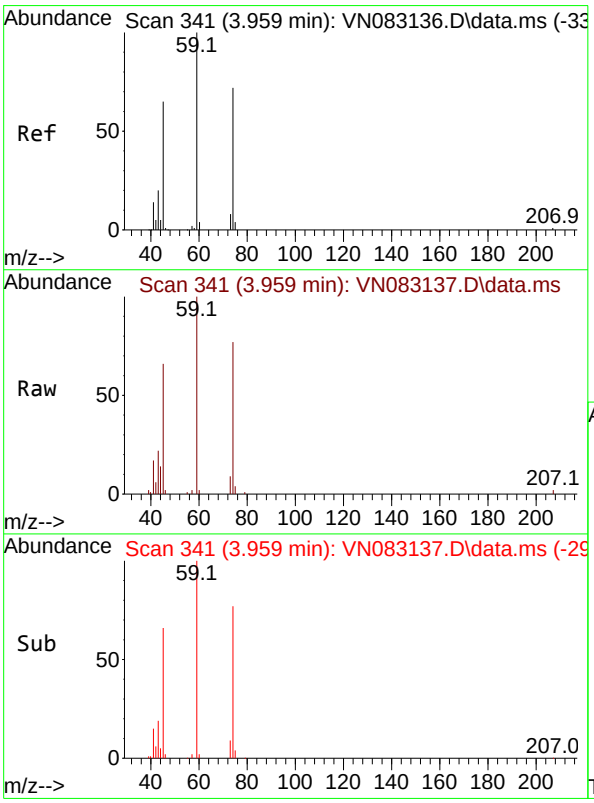
Ion	Ratio	Lower	Upper
101	100		
103	65.0	52.7	79.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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

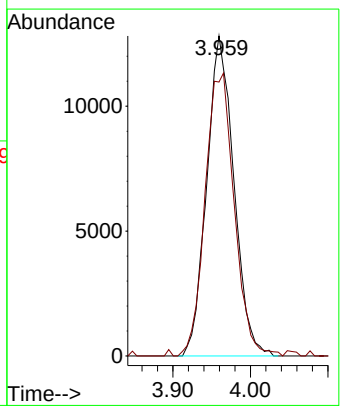


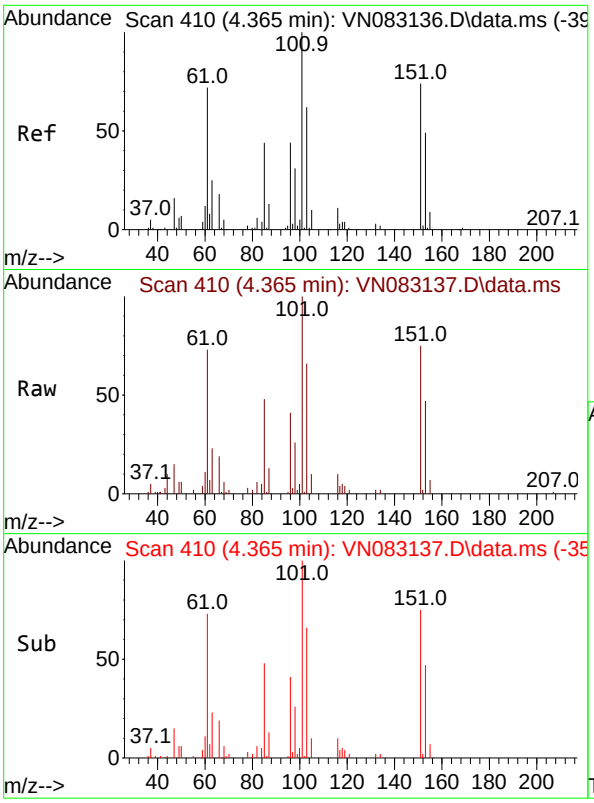


#8
Diethyl Ether
Concen: 20.158 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 74 Resp: 31256

Ion	Ratio	Lower	Upper
74	100		
45	94.8	55.5	166.3

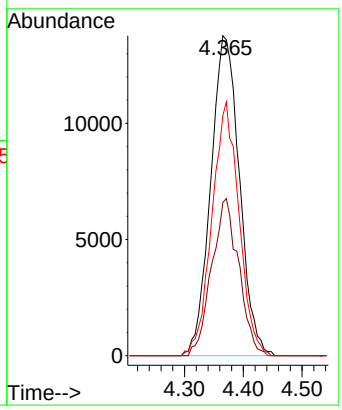




#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.321 ug/l
RT: 4.365 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:101 Resp: 4668

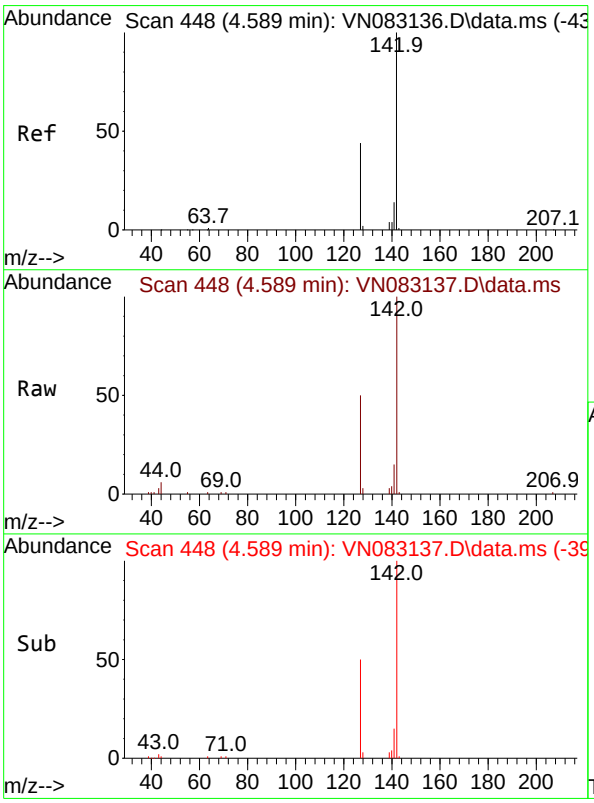
Ion	Ratio	Lower	Upper
101	100		
85	46.5	38.3	57.5
151	74.6	59.3	88.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

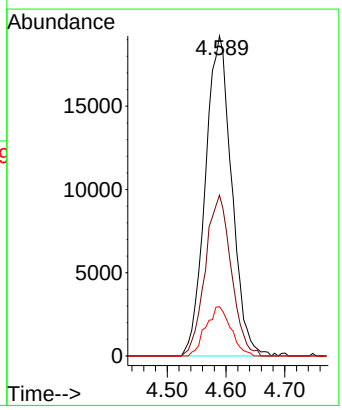
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

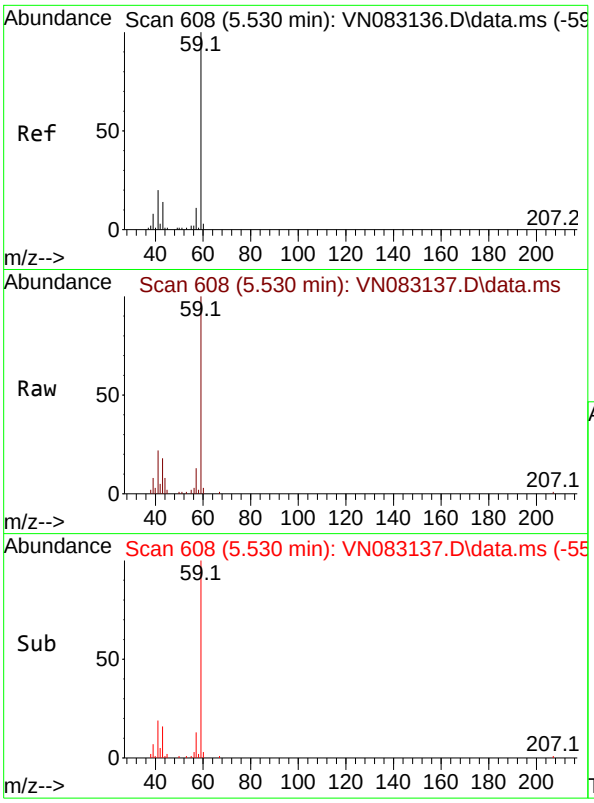


#10
Methyl Iodide
Concen: 19.810 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

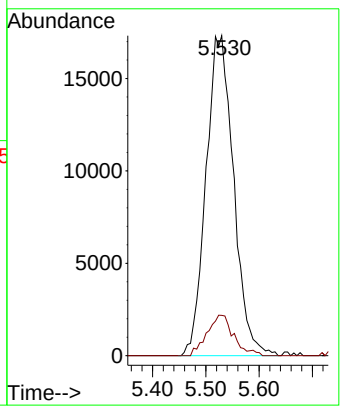




#11
Tert butyl alcohol
Concen: 98.946 ug/l
RT: 5.530 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 59 Resp: 6231

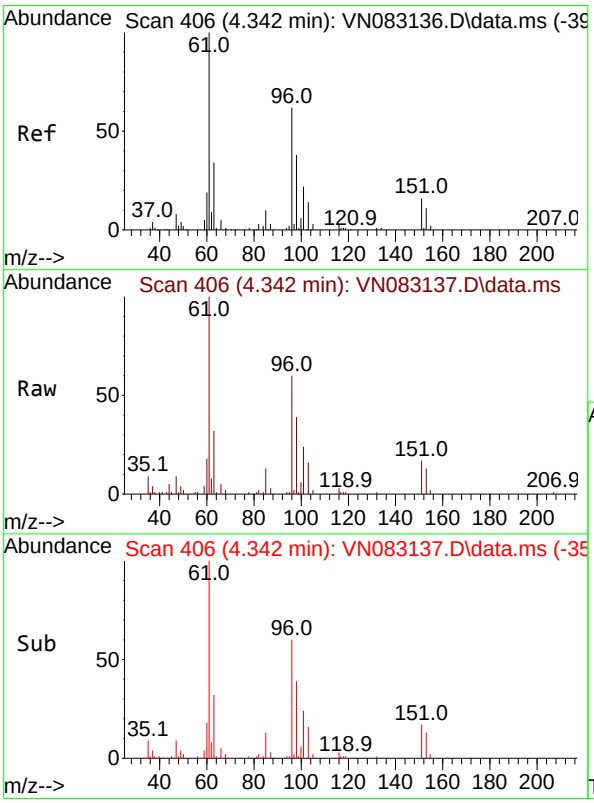
Ion	Ratio	Lower	Upper
59	100		
57	12.2	8.9	13.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

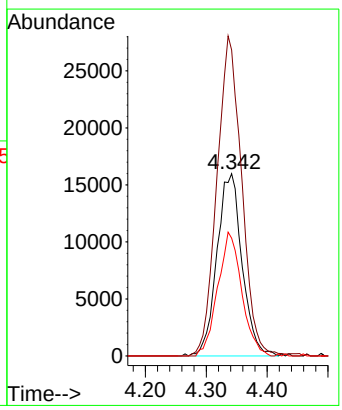
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

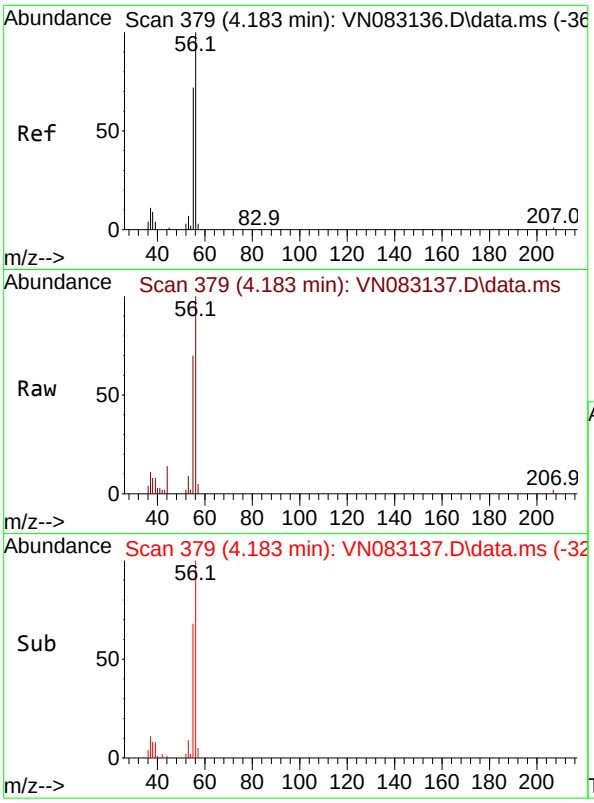


#12
1,1-Dichloroethene
Concen: 19.399 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

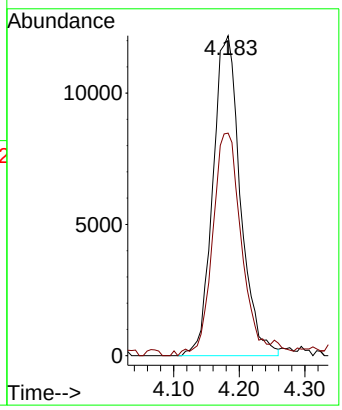




#13
Acrolein
Concen: 86.524 ug/l
RT: 4.183 min Scan# 3
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 56 Resp: 3551

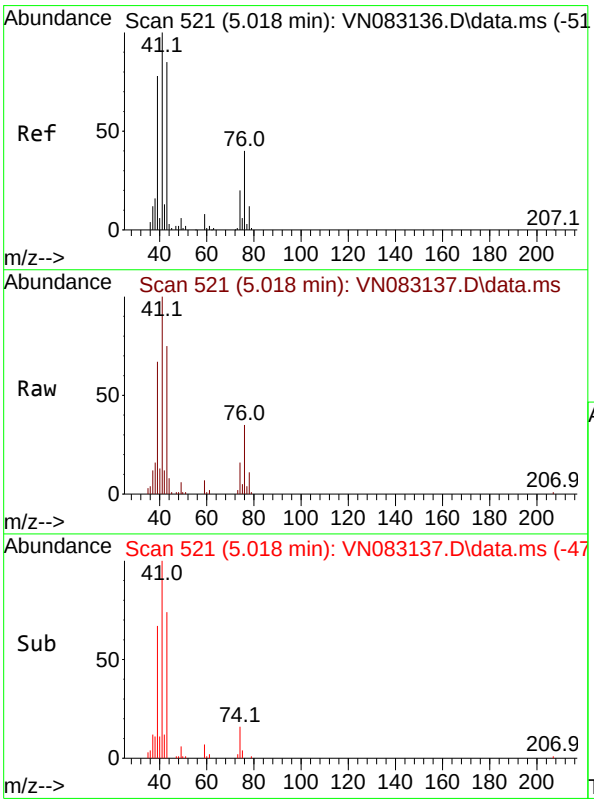
Ion	Ratio	Lower	Upper
56	100		
55	72.6	56.4	84.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

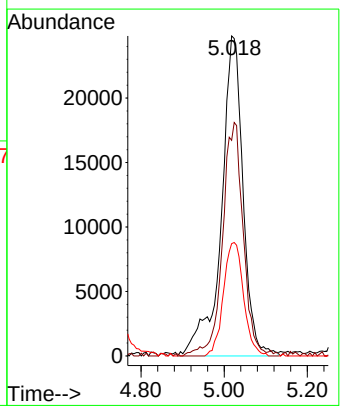
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

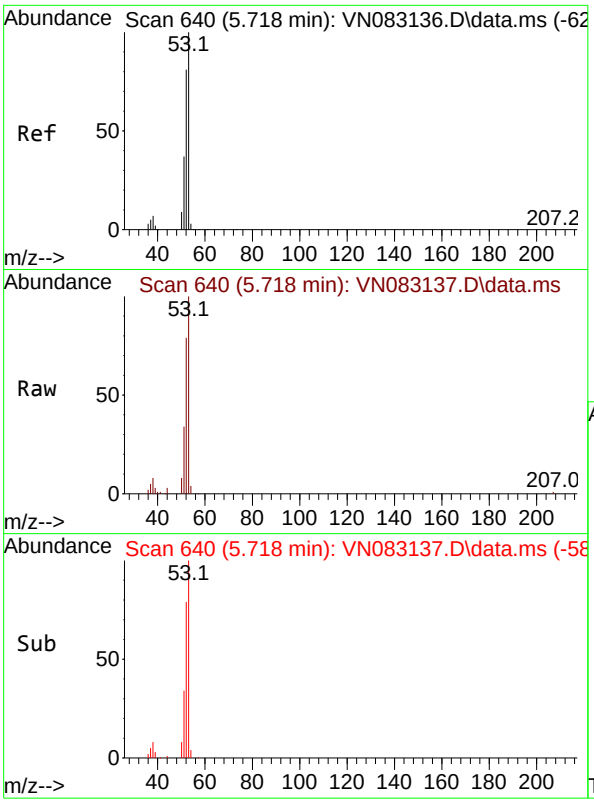


#14
Allyl chloride
Concen: 20.301 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

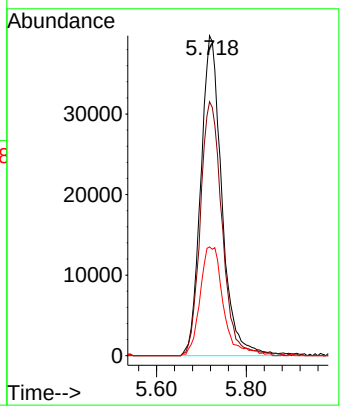




#15
Acrylonitrile
Concen: 99.835 ug/l
RT: 5.718 min Scan# 64
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 53 Resp: 12931

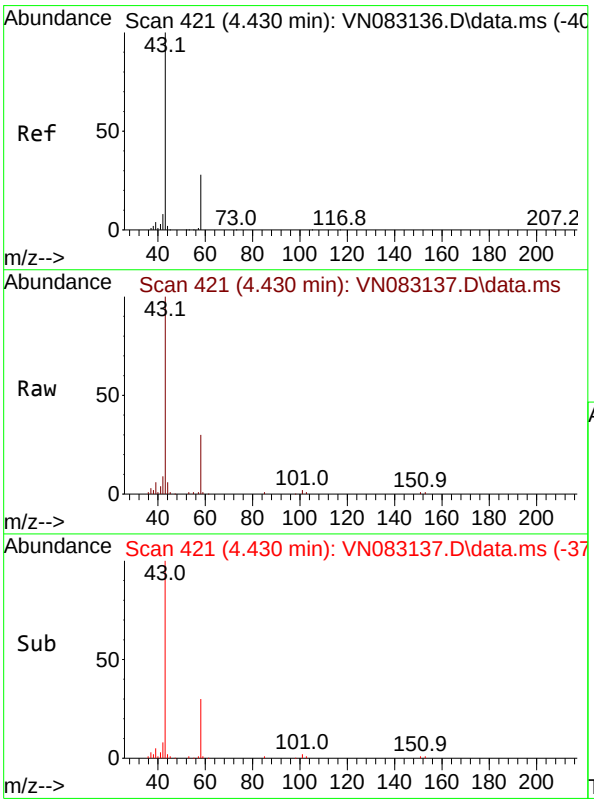
Ion	Ratio	Lower	Upper
53	100		
52	82.1	66.6	100.0
51	37.7	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

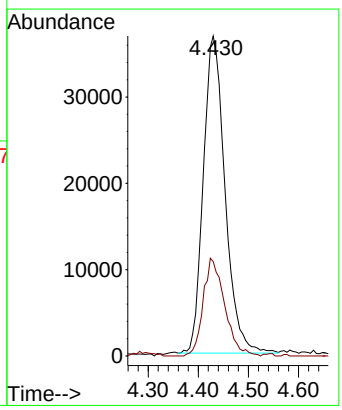
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

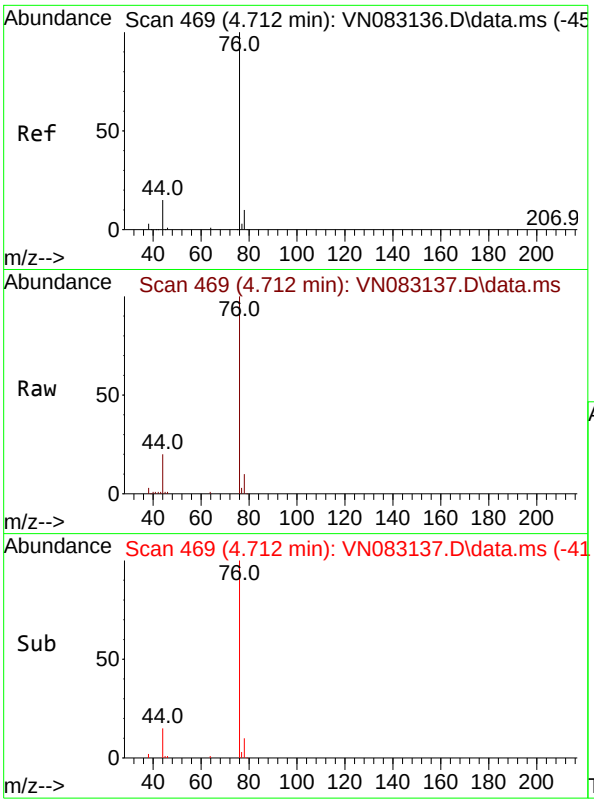


#16
Acetone
Concen: 93.330 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 43 Resp: 110676

Ion	Ratio	Lower	Upper
43	100		
58	29.8	21.8	32.6

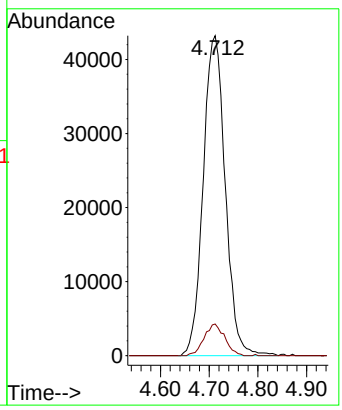




#17
Carbon Disulfide
Concen: 19.683 ug/l
RT: 4.712 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 76 Resp: 13592

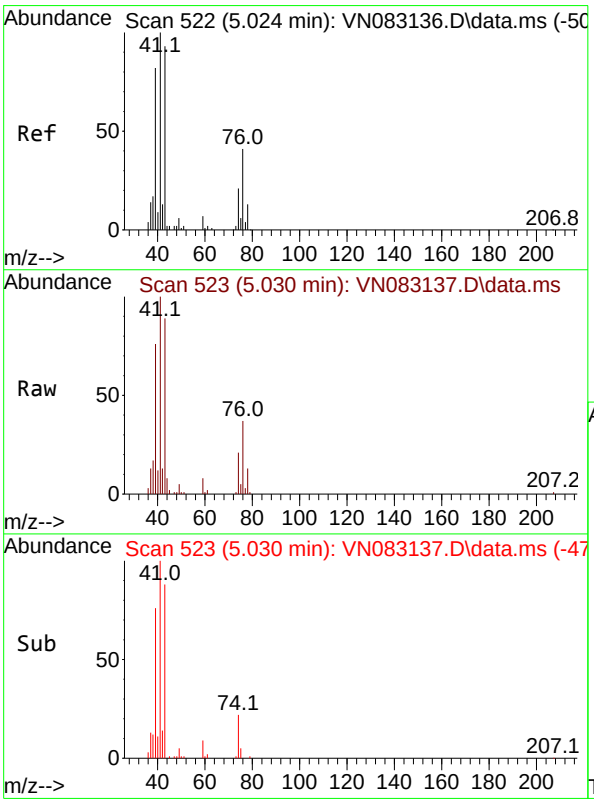
Ion	Ratio	Lower	Upper
76	100		
78	9.9	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

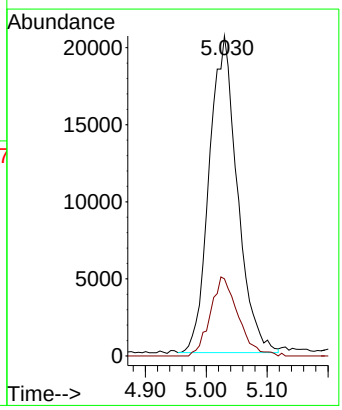
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

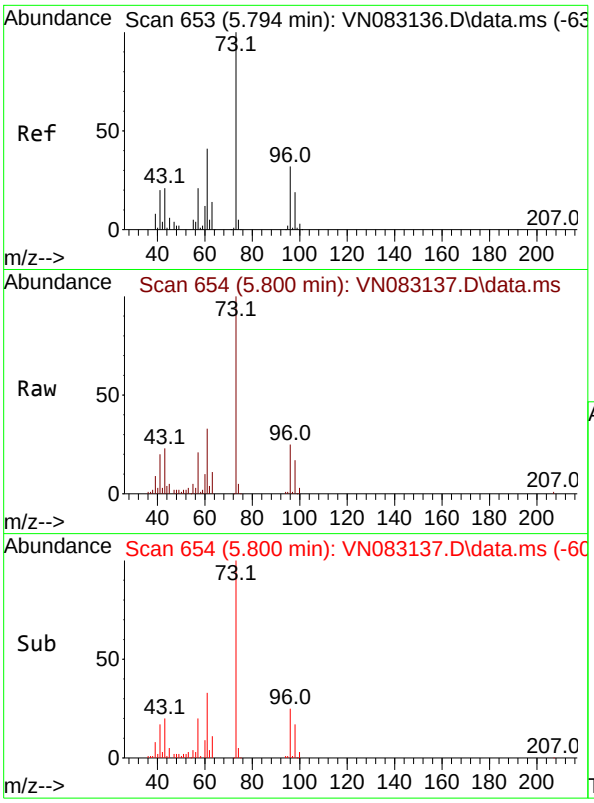


#18
Methyl Acetate
Concen: 18.644 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 43 Resp: 65871

Ion	Ratio	Lower	Upper
43	100		
74	24.5	16.3	24.5#

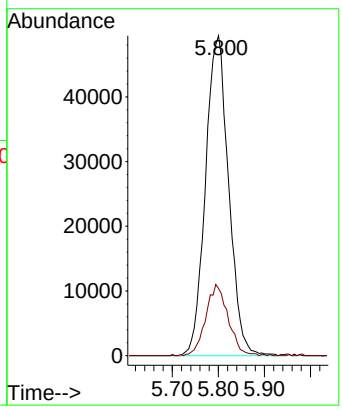




#19
Methyl tert-butyl Ether
Concen: 20.277 ug/l
RT: 5.800 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 73 Resp: 17274

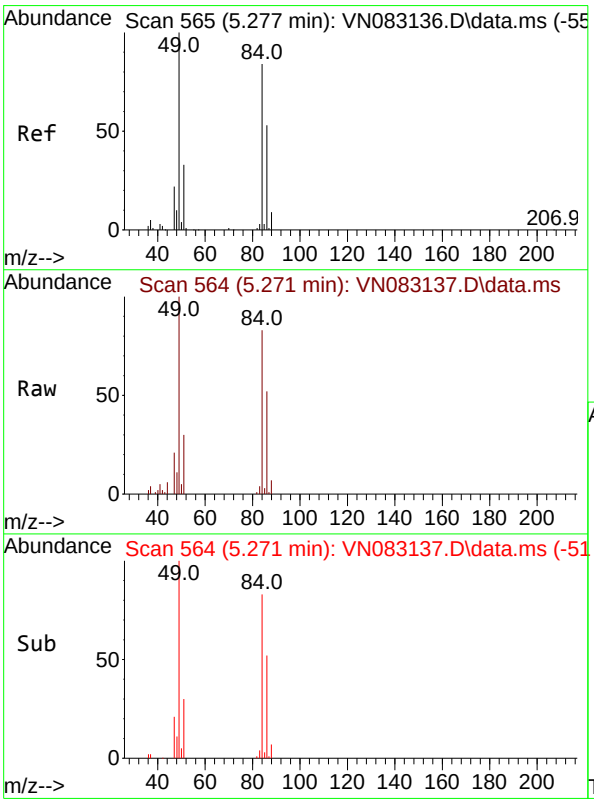
Ion	Ratio	Lower	Upper
73	100		
57	21.0	17.9	26.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

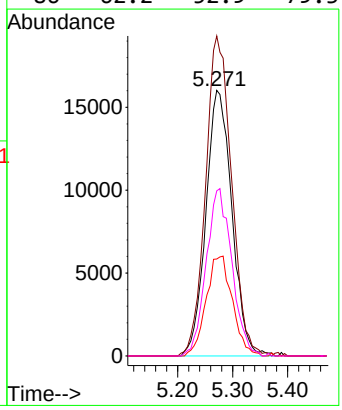
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

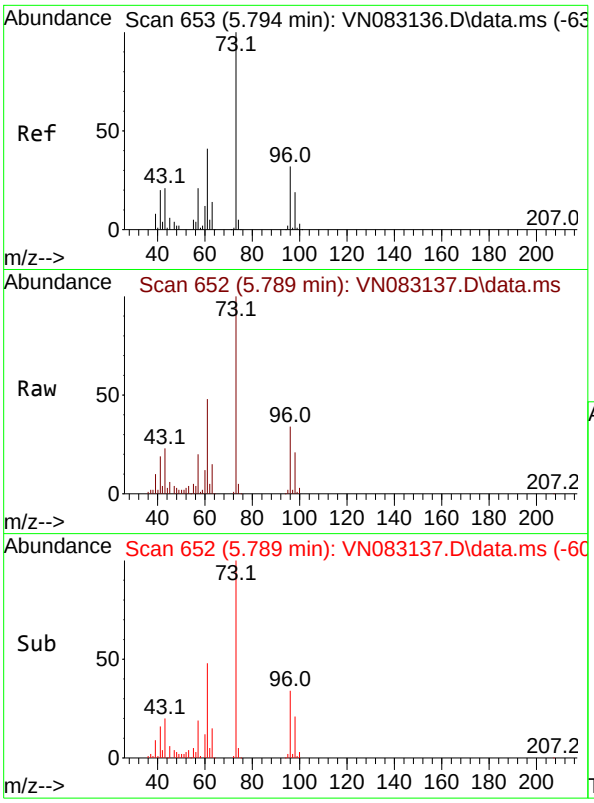


#20
Methylene Chloride
Concen: 19.316 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

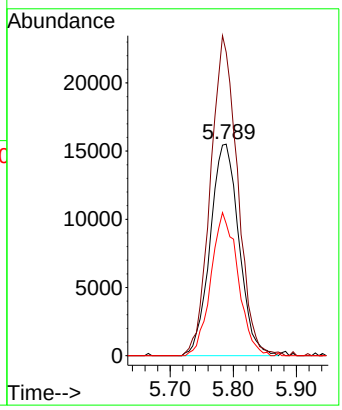




#21
trans-1,2-Dichloroethene
Concen: 20.137 ug/l
RT: 5.789 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 96 Resp: 4912

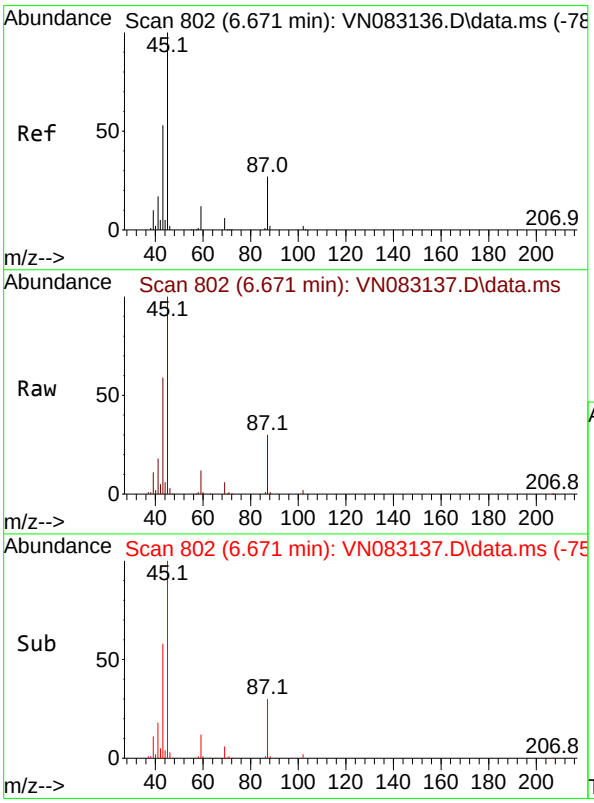
Ion	Ratio	Lower	Upper
96	100		
61	143.3	123.4	185.2
98	62.4	49.3	73.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

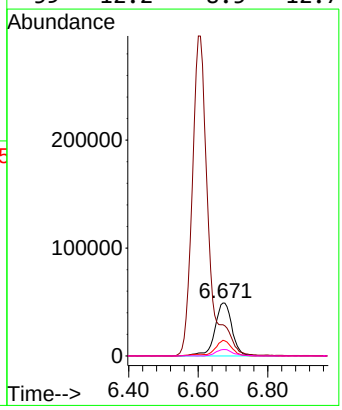
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

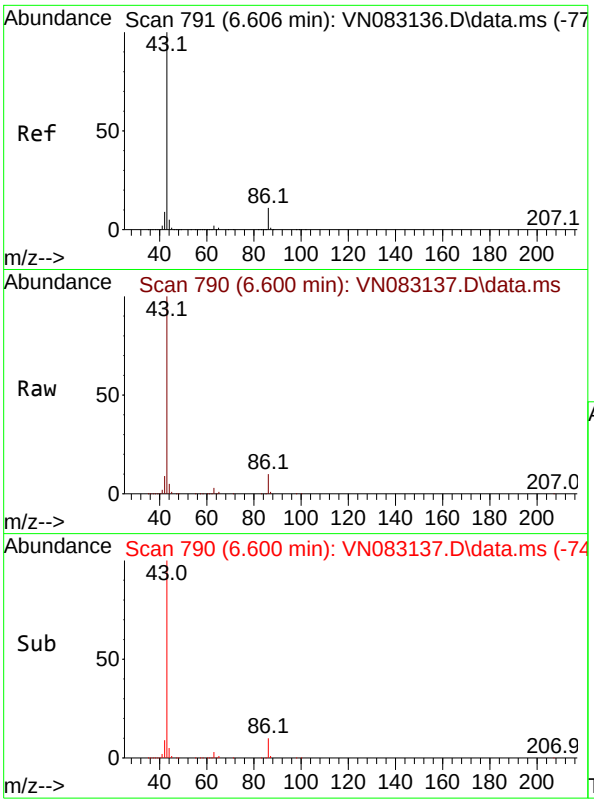


#22
Diisopropyl ether
Concen: 20.070 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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# 7
Delta R.T. -0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

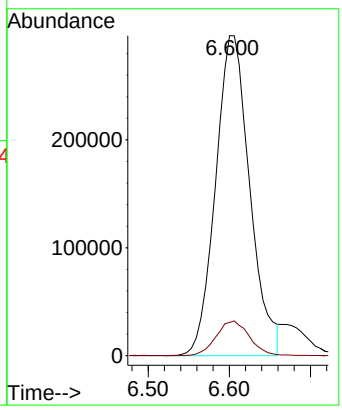
Tgt Ion: 43 Resp: 87121

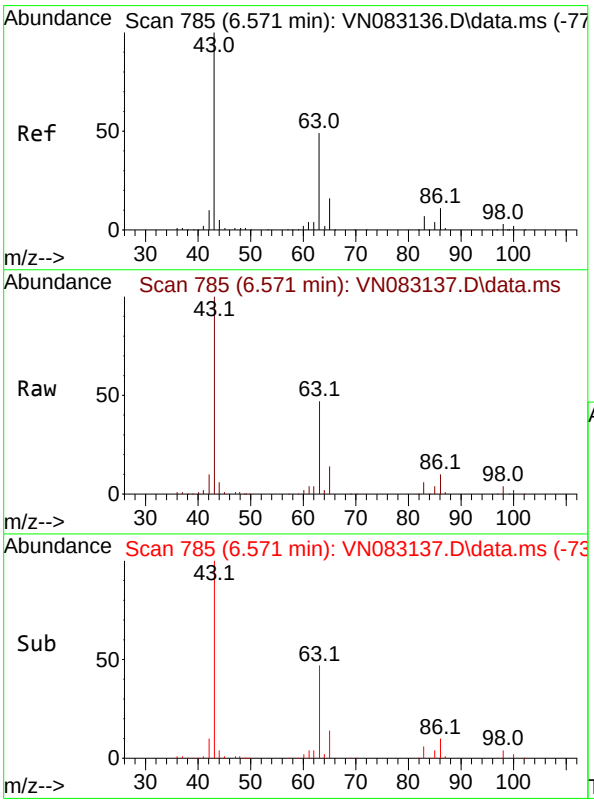
Ion	Ratio	Lower	Upper
43	100		
86	10.4	7.3	10.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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

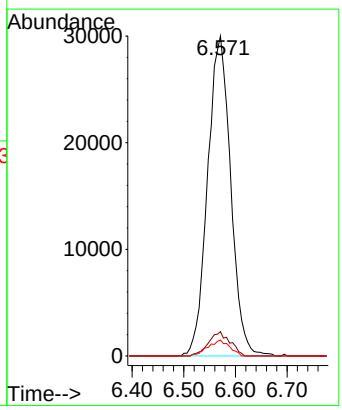


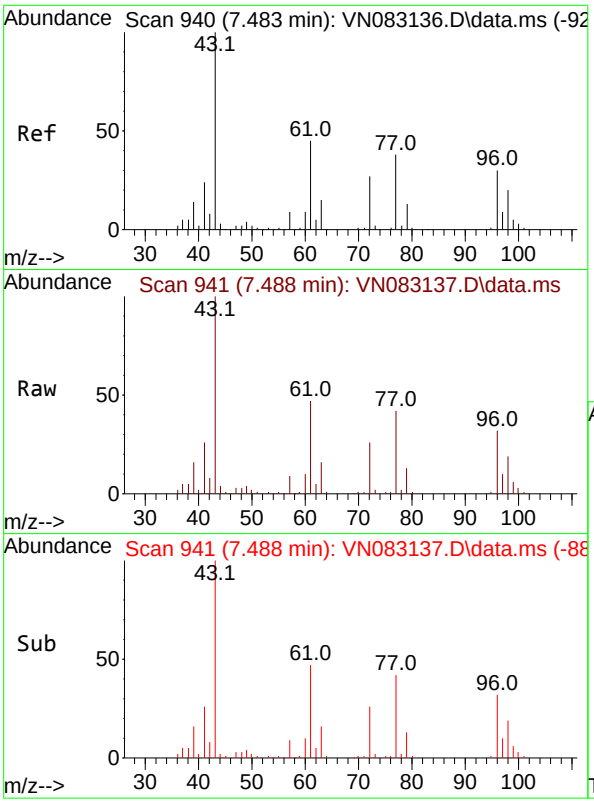


#24
1,1-Dichloroethane
Concen: 20.366 ug/l
RT: 6.571 min Scan# 785
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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# 94
Delta R.T. 0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

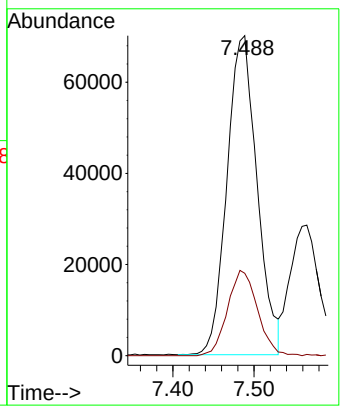
Tgt Ion: 43 Resp: 18045

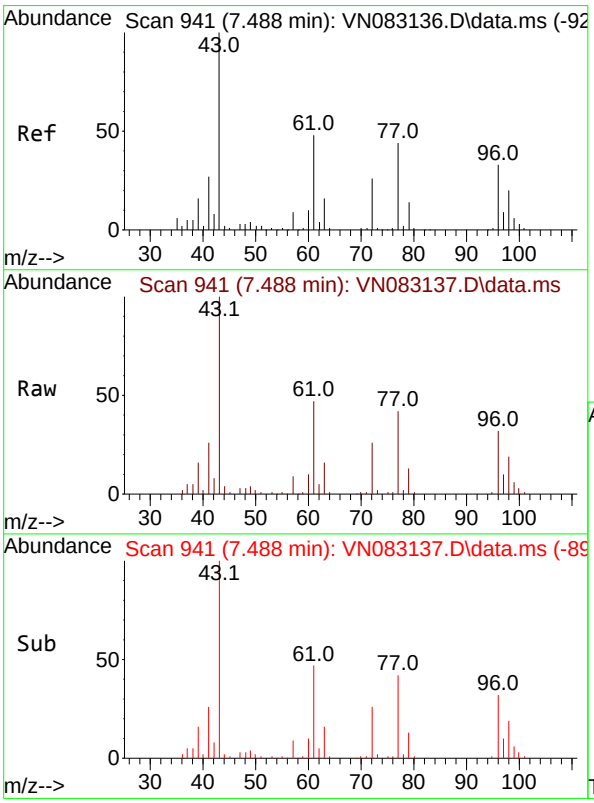
Ion	Ratio	Lower	Upper
43	100		
72	25.9	18.2	27.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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

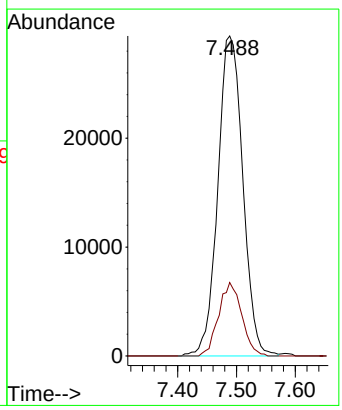


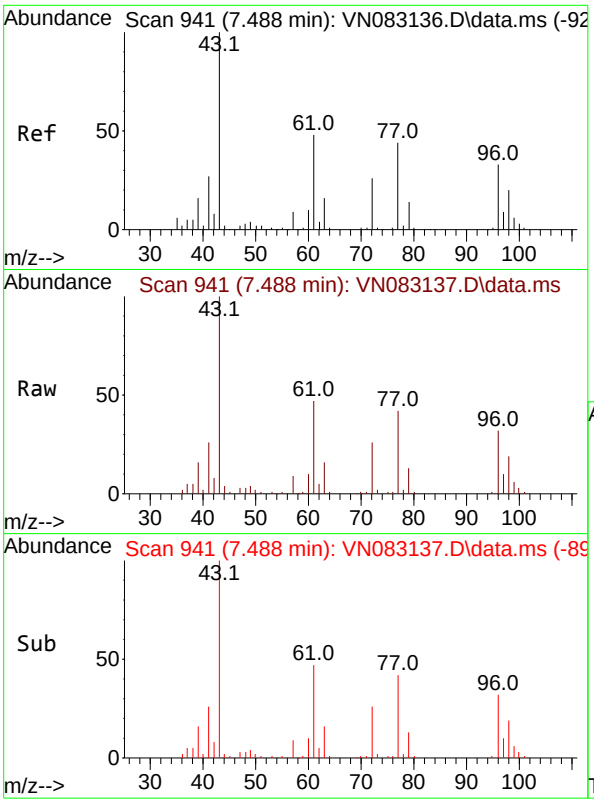


#26
2,2-Dichloropropane
Concen: 20.445 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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# 94
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

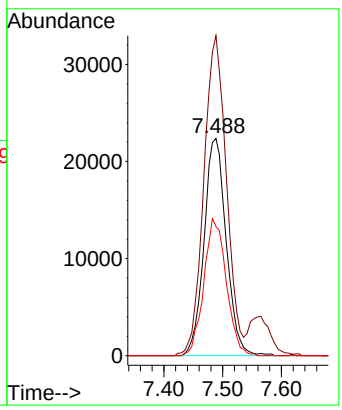
Tgt Ion: 96 Resp: 5885

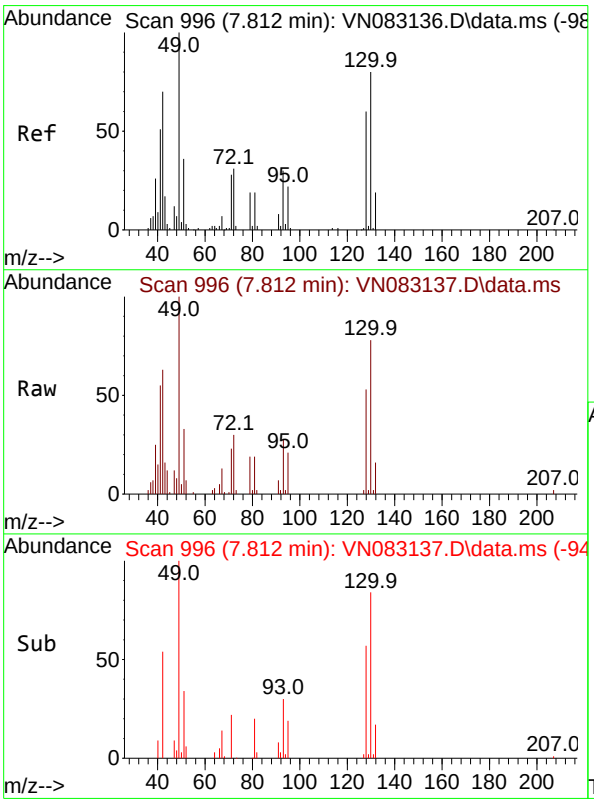
Ion	Ratio	Lower	Upper
96	100		
61	149.6	0.0	329.6
98	63.7	0.0	128.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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

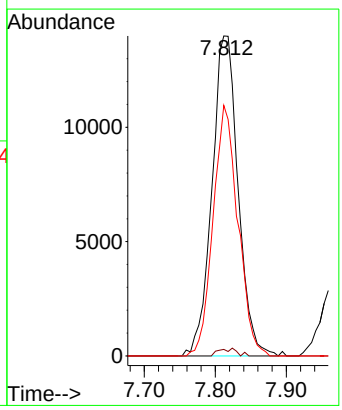


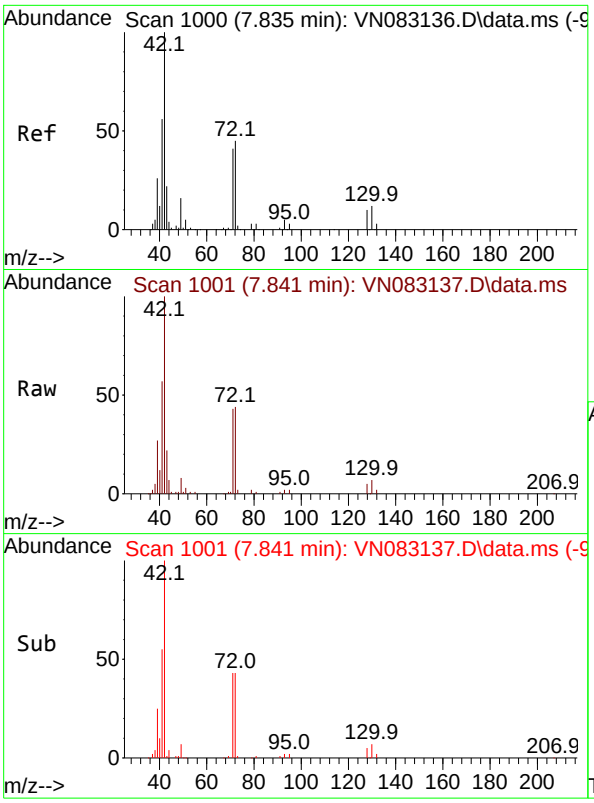


#28
Bromochloromethane
Concen: 19.153 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

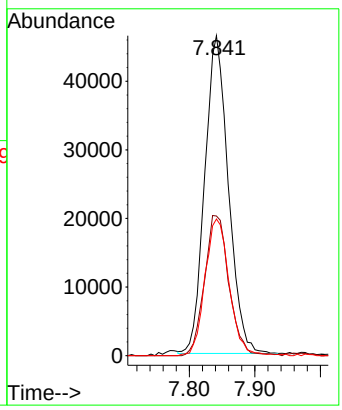




#29
Tetrahydrofuran
Concen: 98.399 ug/l
RT: 7.841 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 42 Resp: 11582

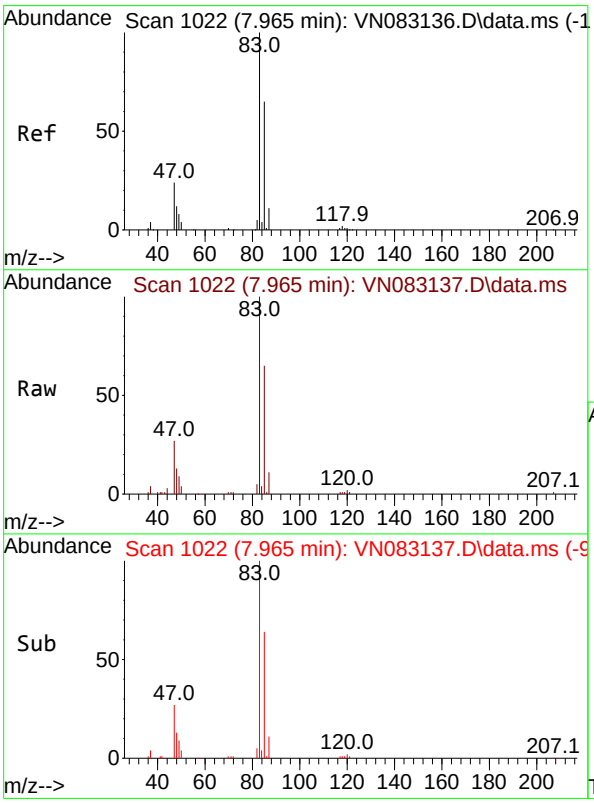
Ion	Ratio	Lower	Upper
42	100		
72	45.8	30.0	45.0#
71	44.0	28.3	42.5#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

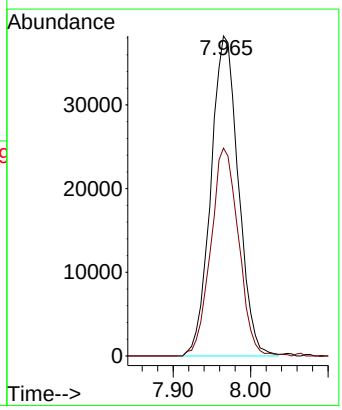
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

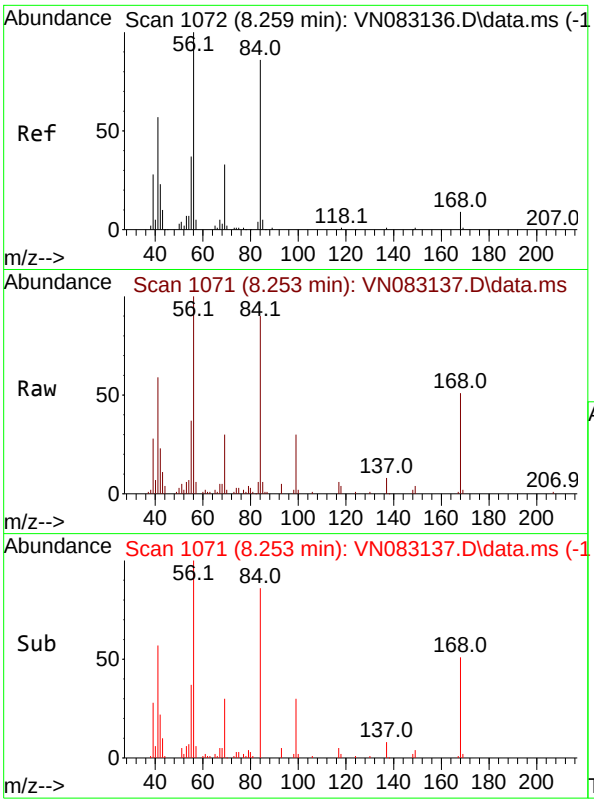


#30
Chloroform
Concen: 19.917 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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# 1
Delta R.T. -0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

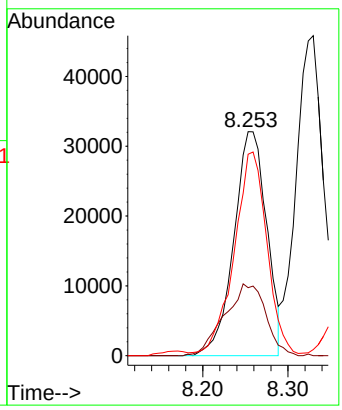
Tgt Ion: 56 Resp: 8597

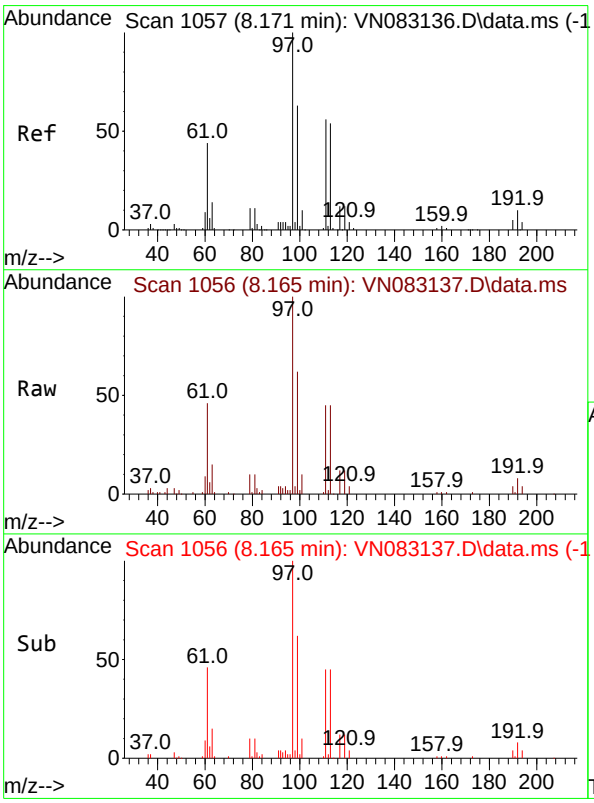
Ion	Ratio	Lower	Upper
56	100		
69	30.4	24.5	36.7
84	87.9	66.0	99.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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

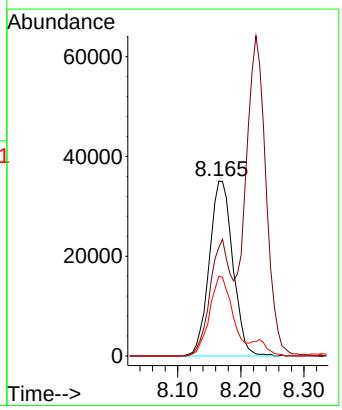


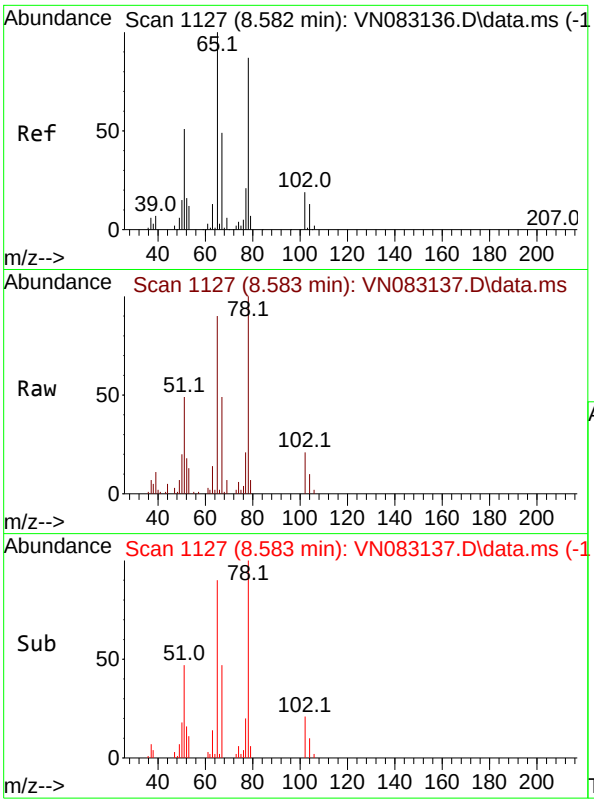


#32
1,1,1-Trichloroethane
Concen: 20.194 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

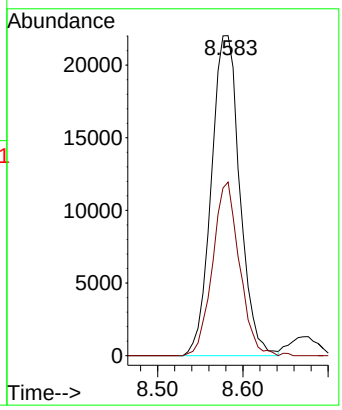




#33
1,2-Dichloroethane-d4
Concen: 16.881 ug/l
RT: 8.583 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 65 Resp: 5115

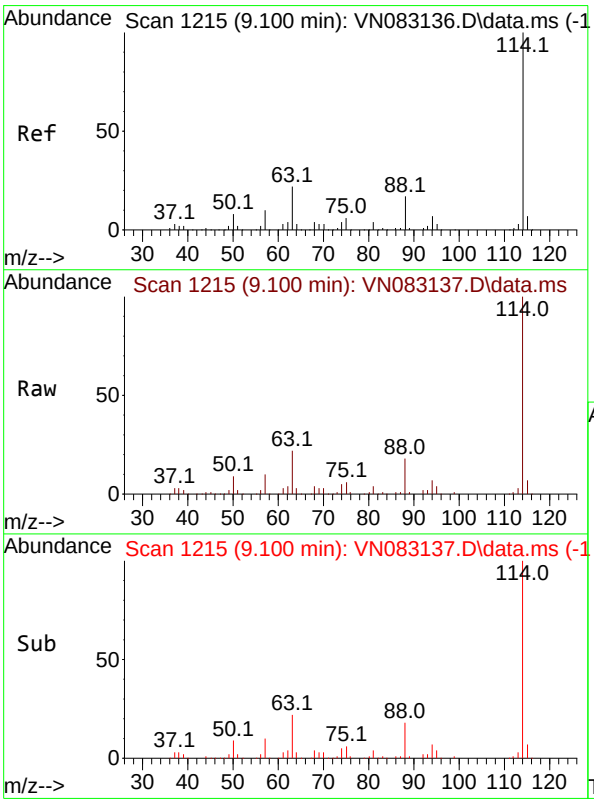
Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	104.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

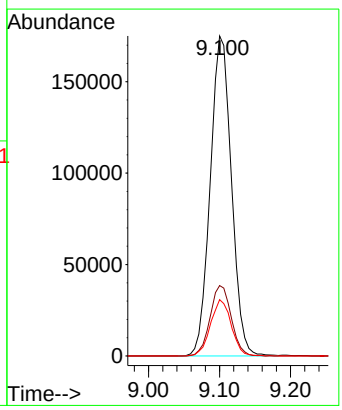
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

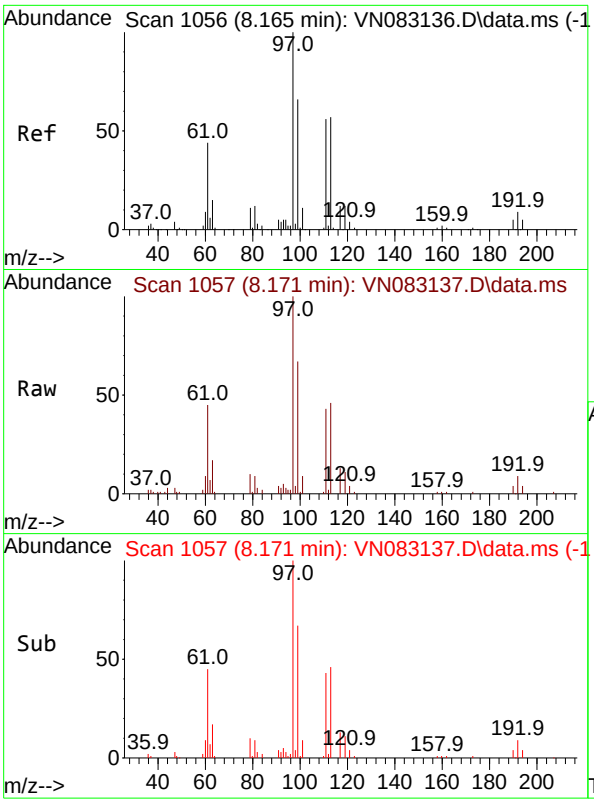


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

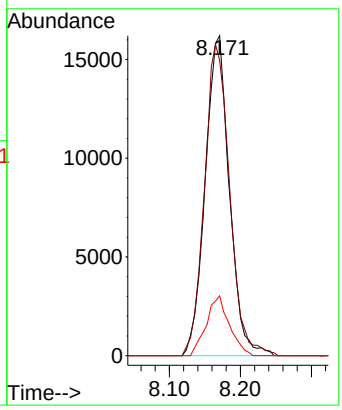




#35
Dibromofluoromethane
Concen: 16.940 ug/l
RT: 8.171 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:113 Resp: 3835

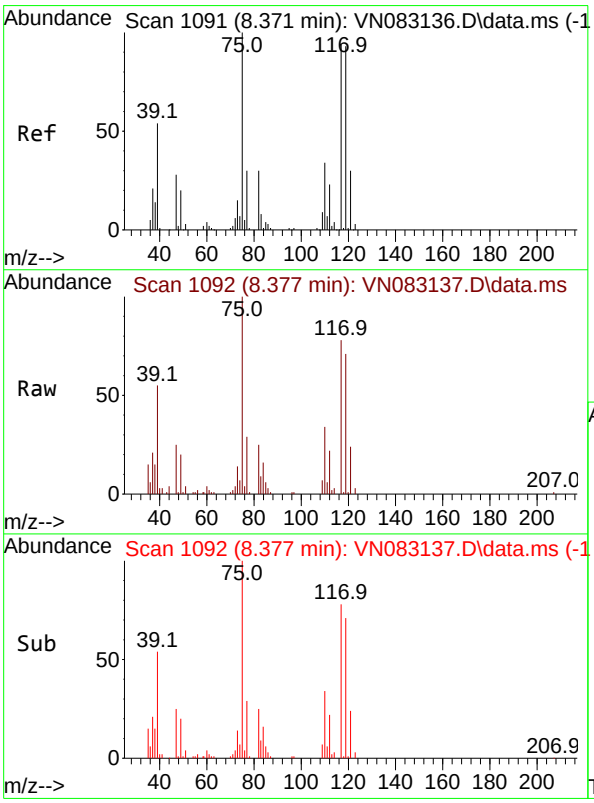
Ion	Ratio	Lower	Upper
113	100		
111	101.3	82.4	123.6
192	17.8	14.9	22.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

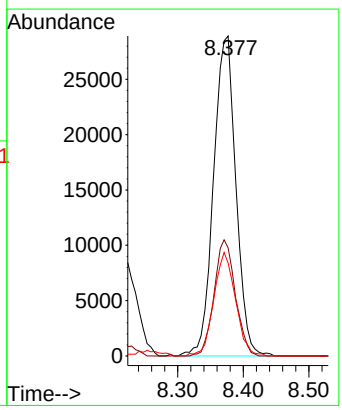
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

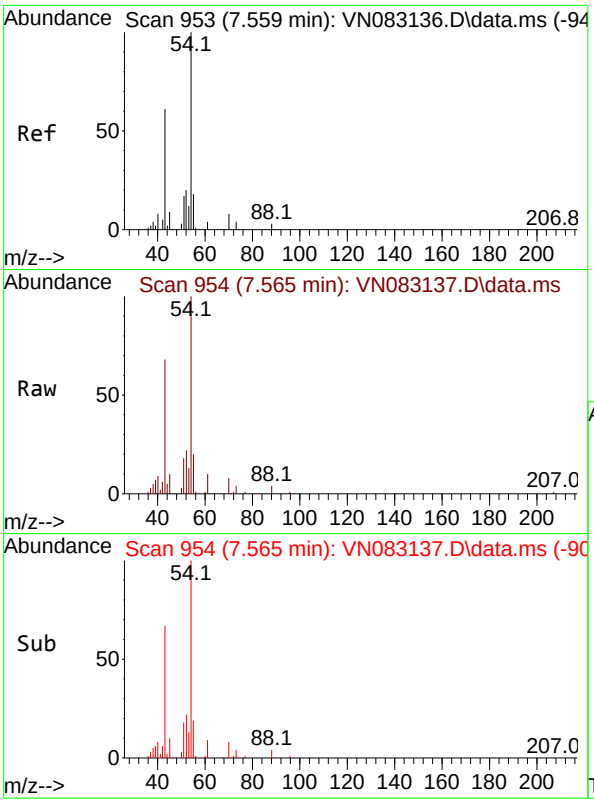


#36
1,1-Dichloropropene
Concen: 19.978 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. 0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

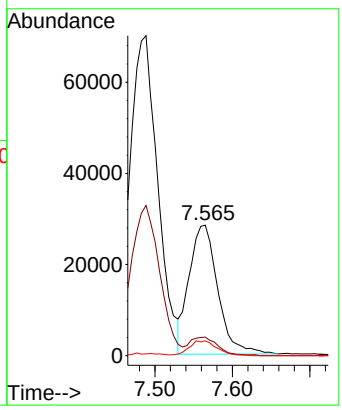




#37
Ethyl Acetate
Concen: 18.985 ug/l
RT: 7.565 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 43 Resp: 7280

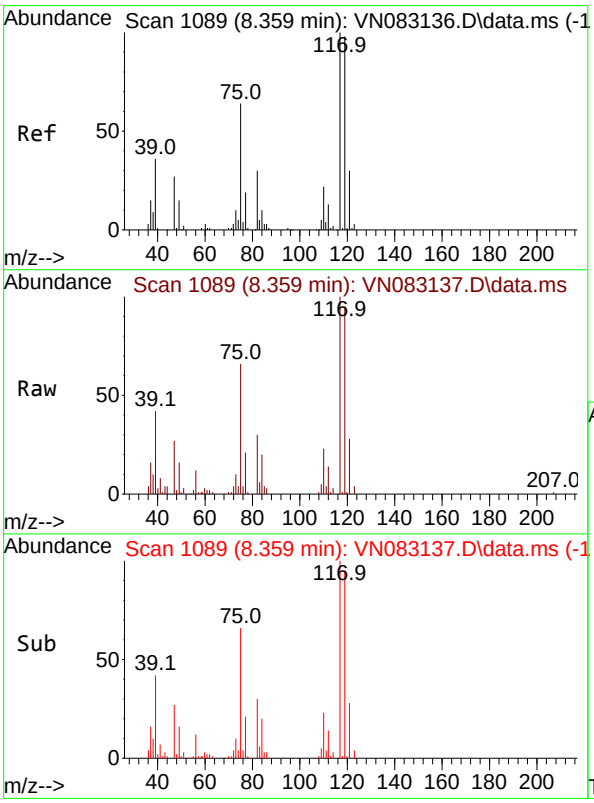
Ion	Ratio	Lower	Upper
43	100		
61	14.3	9.3	13.9#
70	11.2	7.0	10.6#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

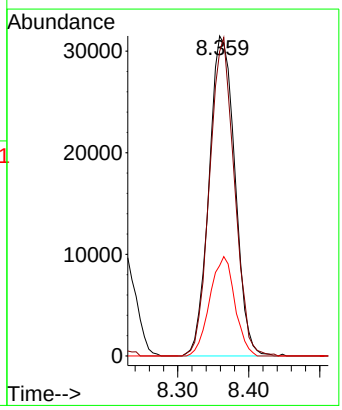
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

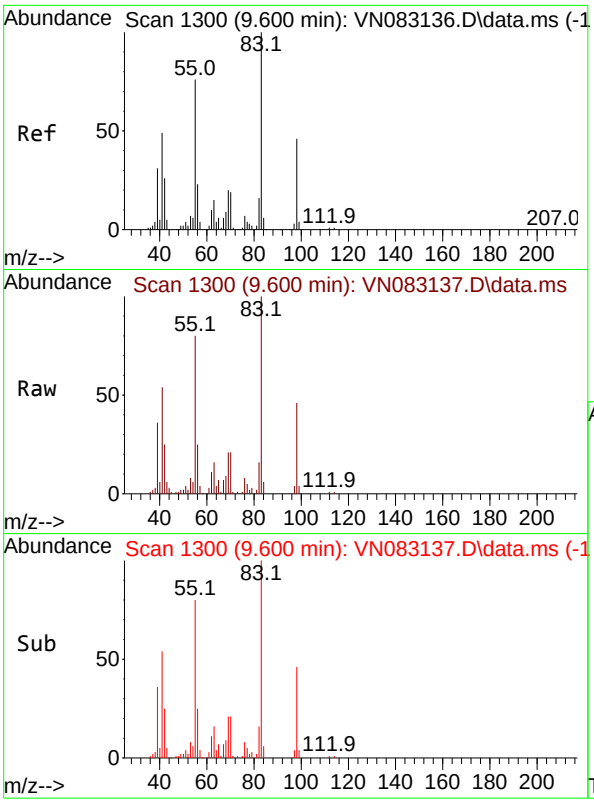


#38
Carbon Tetrachloride
Concen: 20.605 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

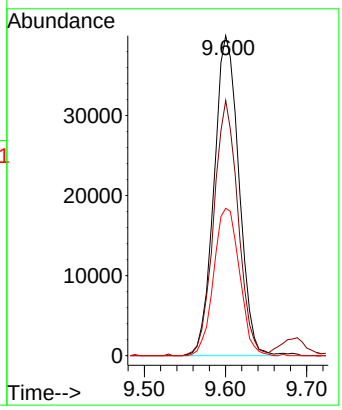




#39
Methylcyclohexane
Concen: 20.246 ug/l
RT: 9.600 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 83 Resp: 8517

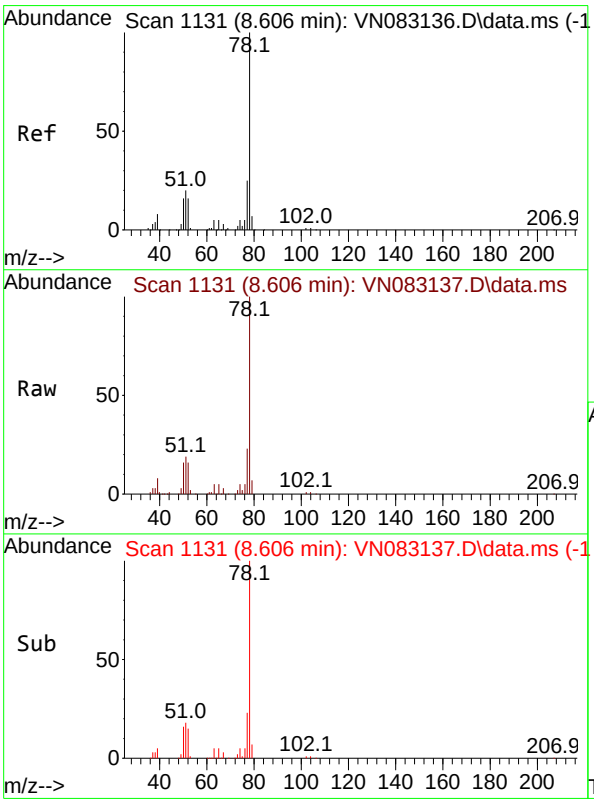
Ion	Ratio	Lower	Upper
83	100		
55	79.7	66.4	99.6
98	46.1	40.7	61.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

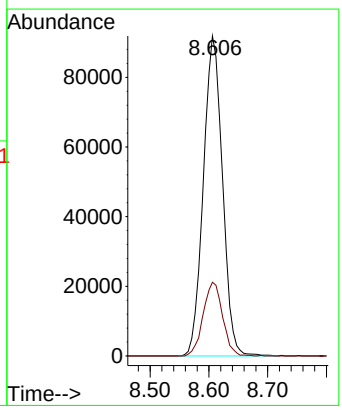
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

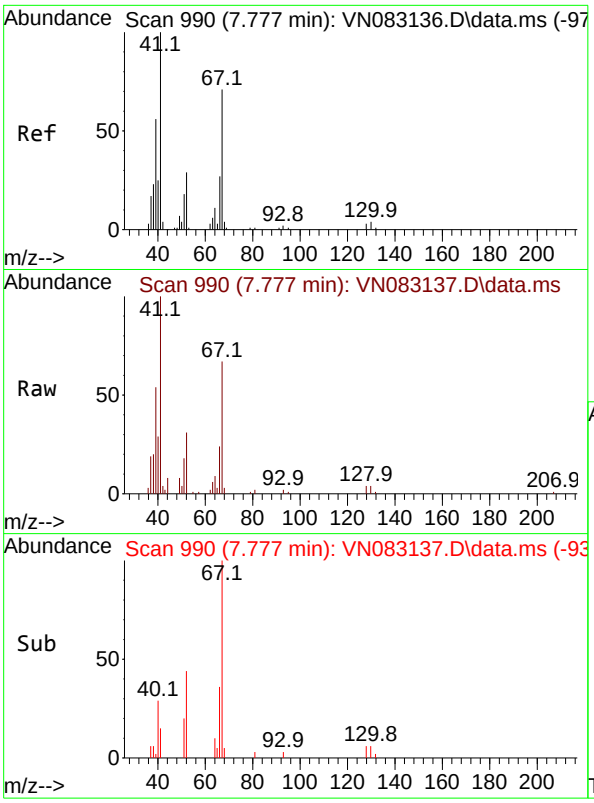


#40
Benzene
Concen: 20.345 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 78 Resp: 207581

Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.0	28.4

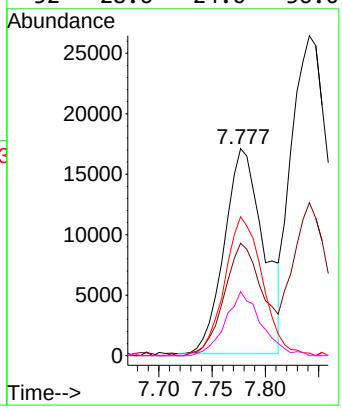




#41
Methacrylonitrile
Concen: 19.968 ug/l
RT: 7.777 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 41 Resp: 4353

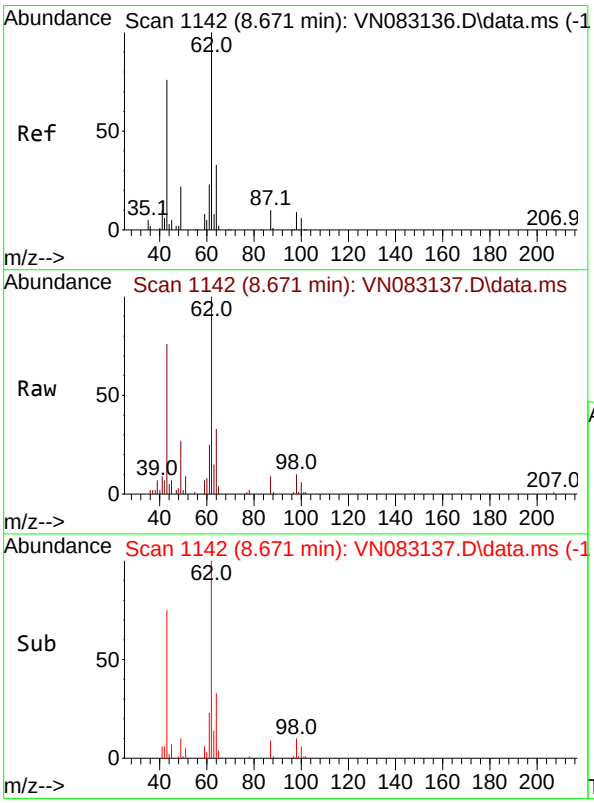
Ion	Ratio	Lower	Upper
41	100		
39	54.6	45.5	68.3
67	65.2	50.5	75.7
52	28.6	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

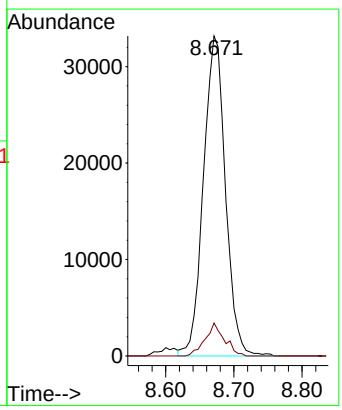
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

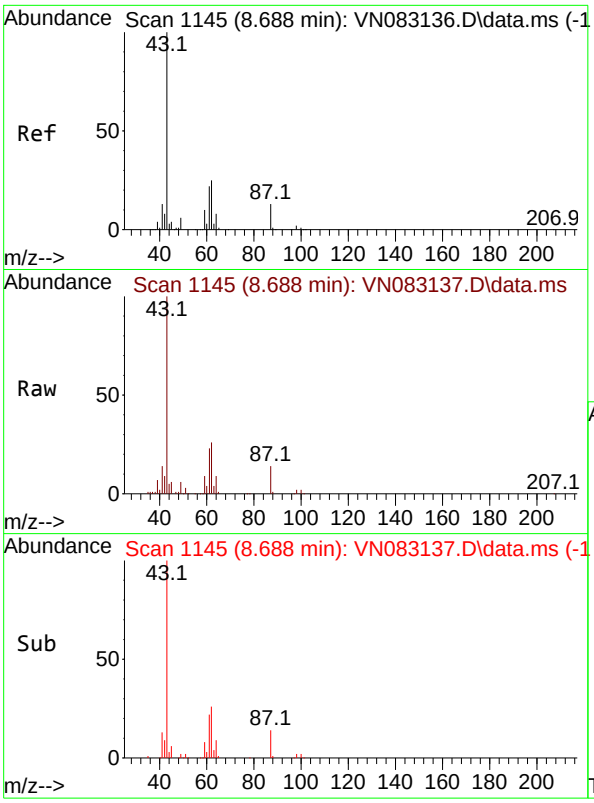


#42
1,2-Dichloroethane
Concen: 20.062 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

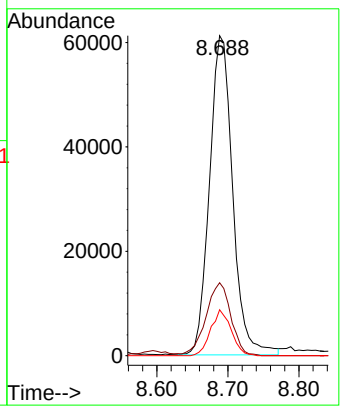
Tgt Ion: 43 Resp: 13871

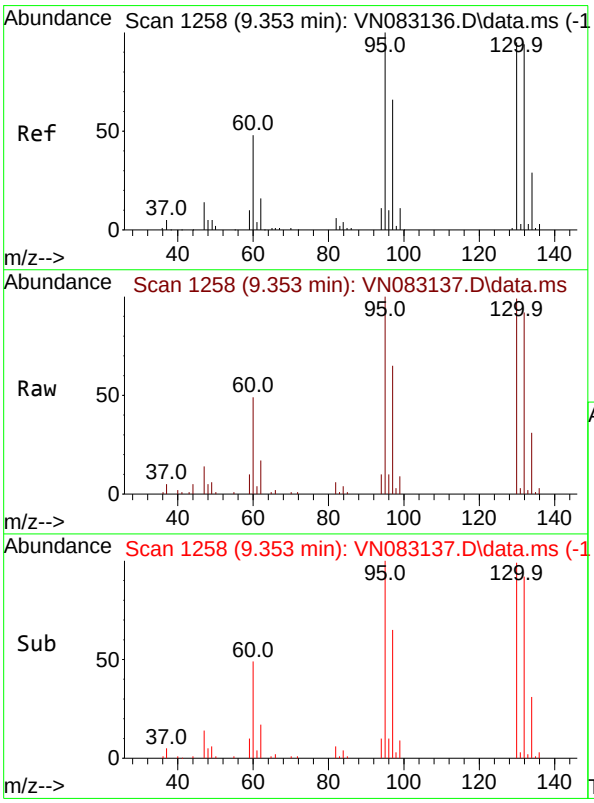
Ion	Ratio	Lower	Upper
43	100		
61	24.5	17.8	26.6
87	12.7	8.2	12.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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

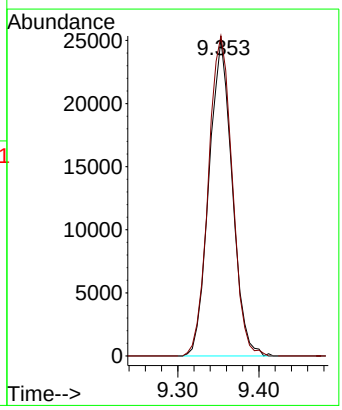


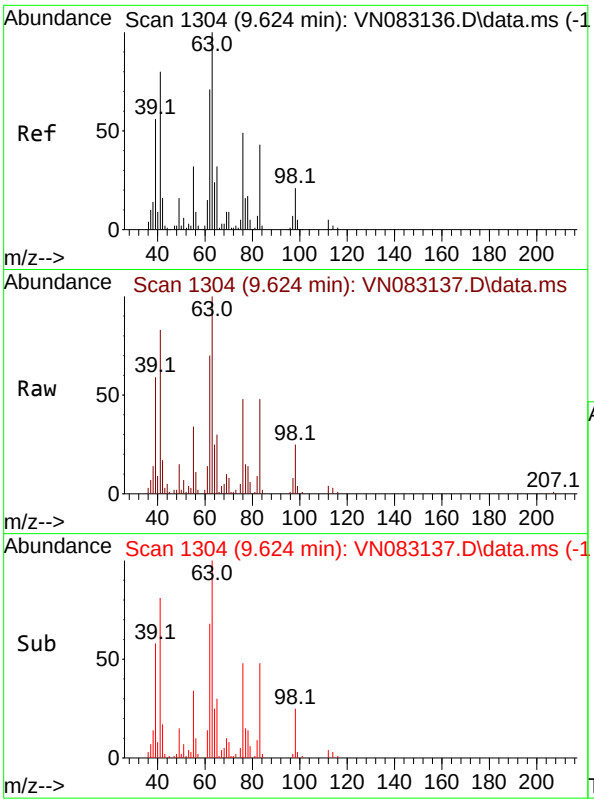


#44
Trichloroethene
Concen: 20.469 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

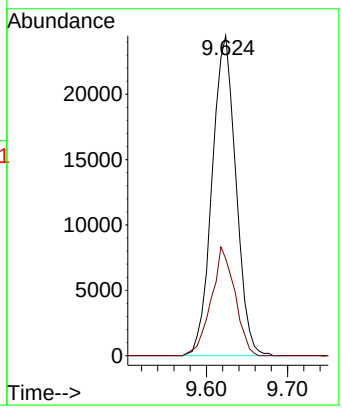
Tgt Ion: 63 Resp: 4987

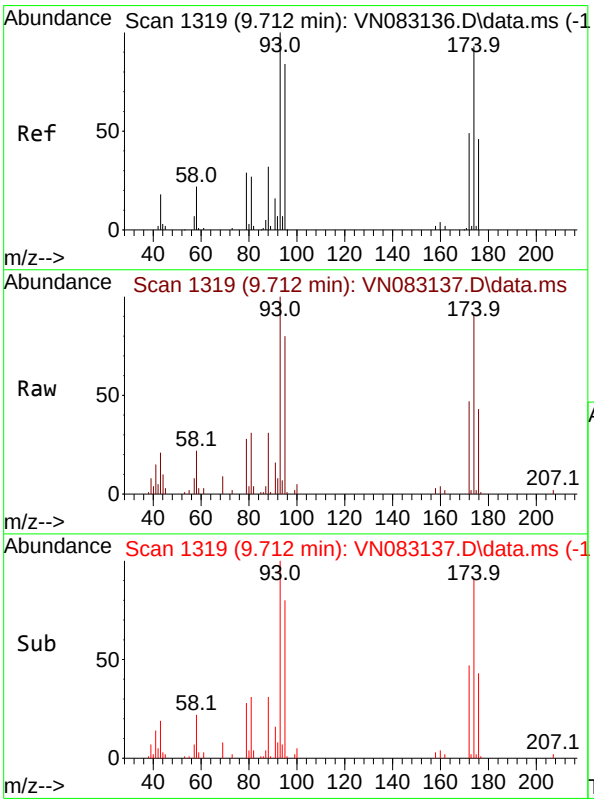
Ion	Ratio	Lower	Upper
63	100		
65	30.4	24.4	36.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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

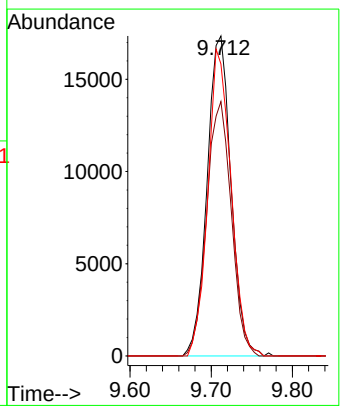


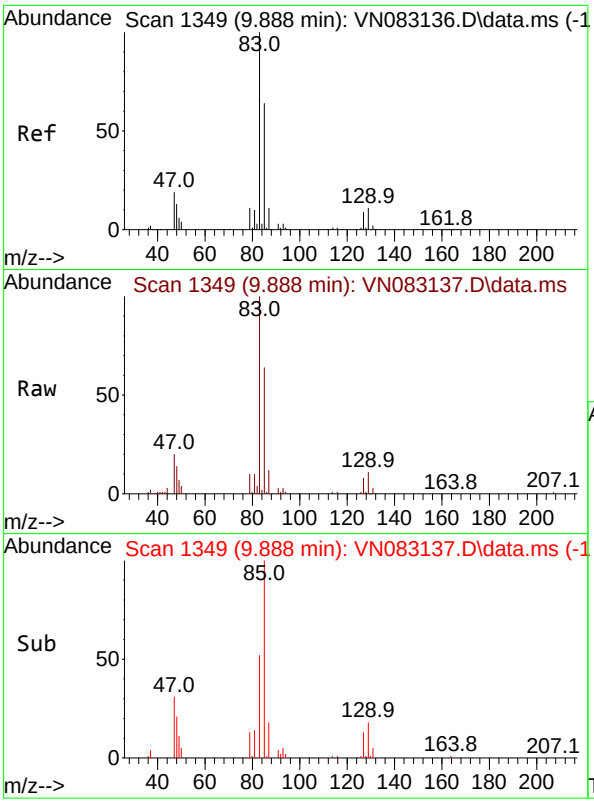


#46
Dibromomethane
Concen: 20.512 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

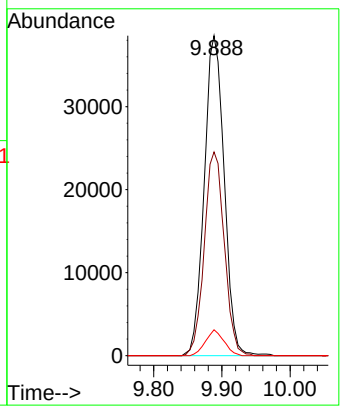




#47
Bromodichloromethane
Concen: 20.147 ug/l
RT: 9.888 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 83 Resp: 7842

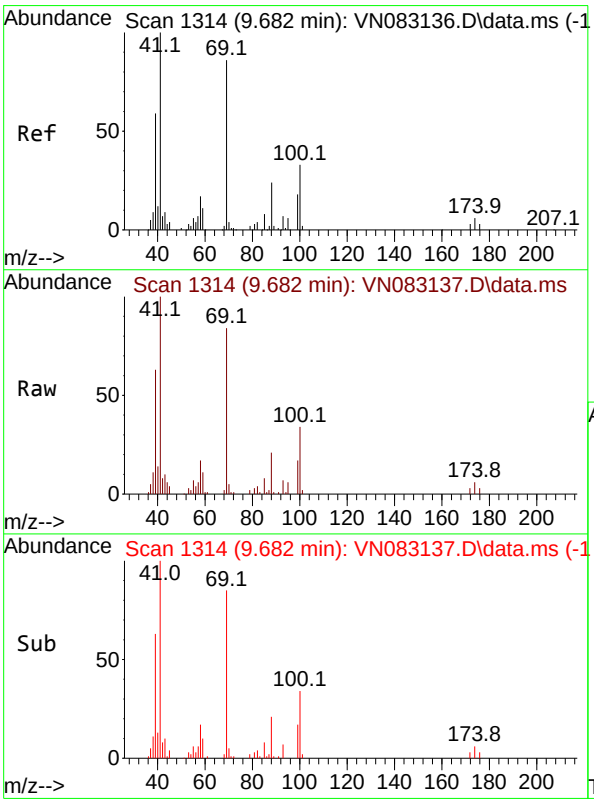
Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.1	76.7
127	8.1	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

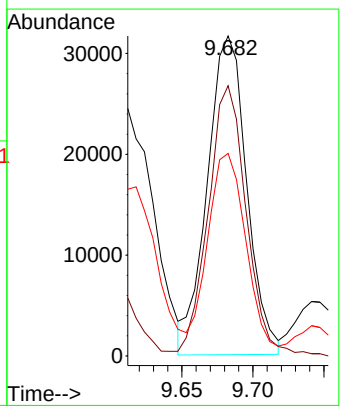
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

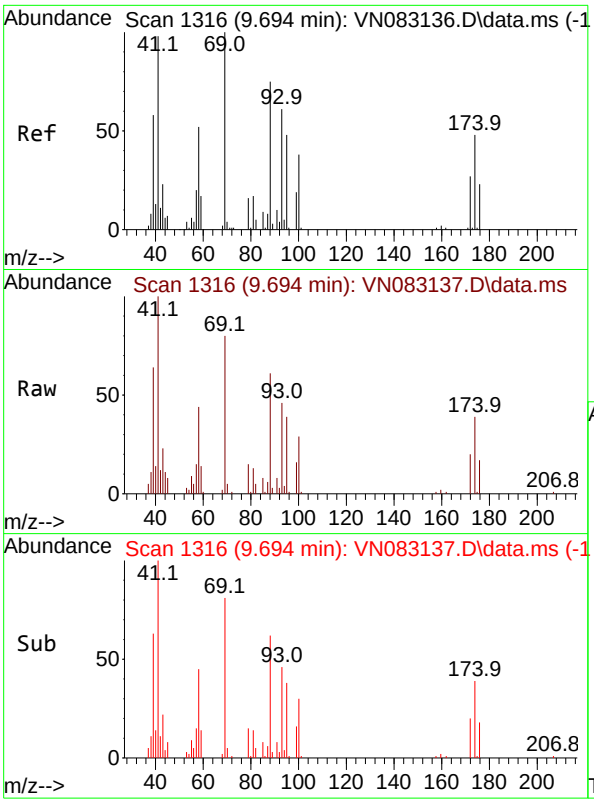


#48
Methyl methacrylate
Concen: 19.254 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

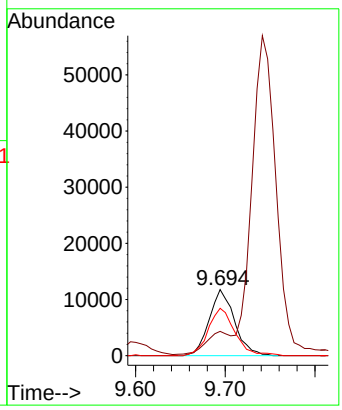
Tgt Ion: 88 Resp: 2308

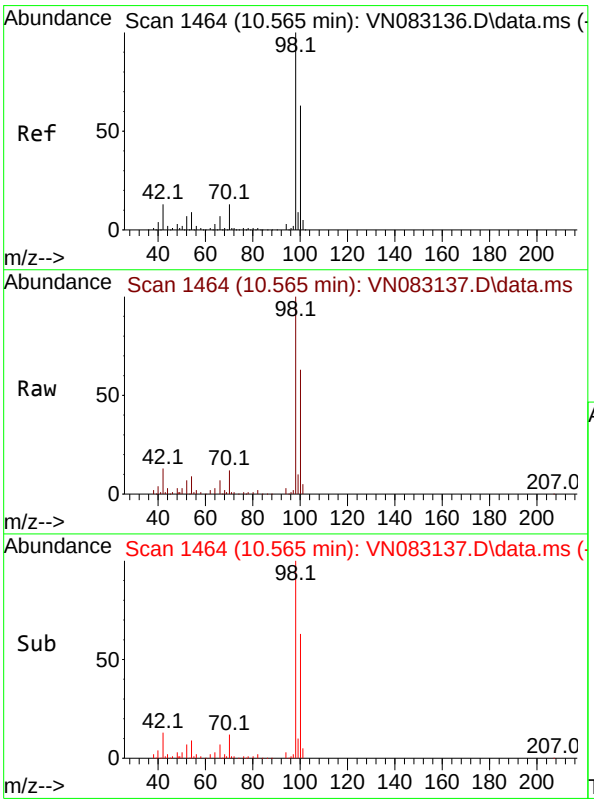
Ion	Ratio	Lower	Upper
88	100		
43	32.7	27.8	41.8
58	75.6	59.4	89.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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

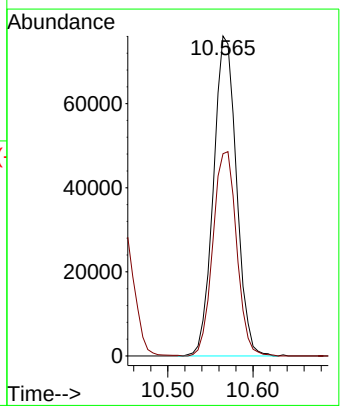


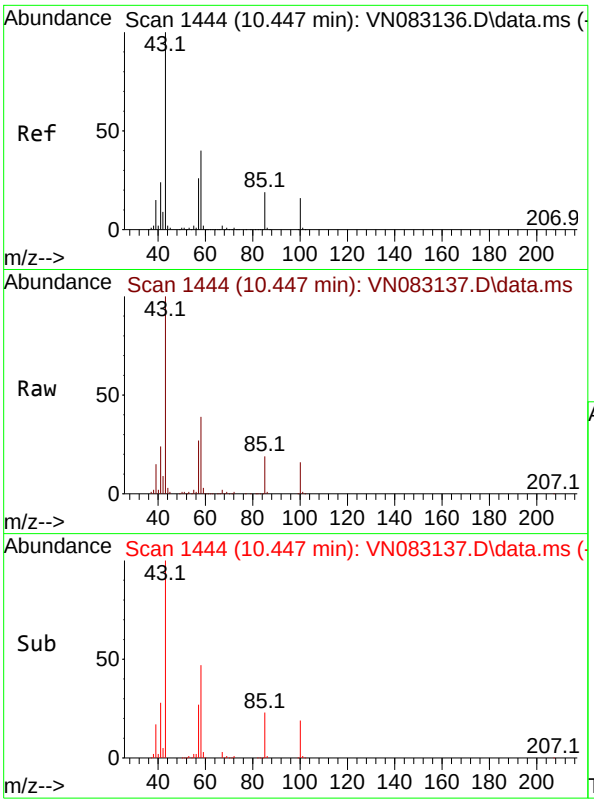


#50
Toluene-d8
Concen: 16.926 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 98 Resp: 142952

Ion	Ratio	Lower	Upper
98	100		
100	65.8	51.5	77.3

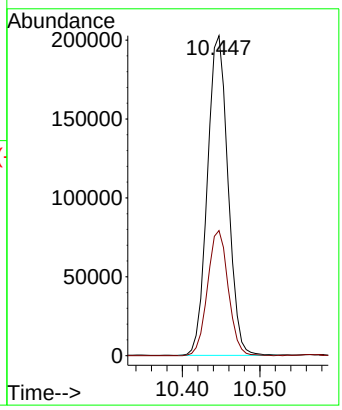




#51
4-Methyl-2-Pentanone
Concen: 103.224 ug/l
RT: 10.447 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 43 Resp: 37433

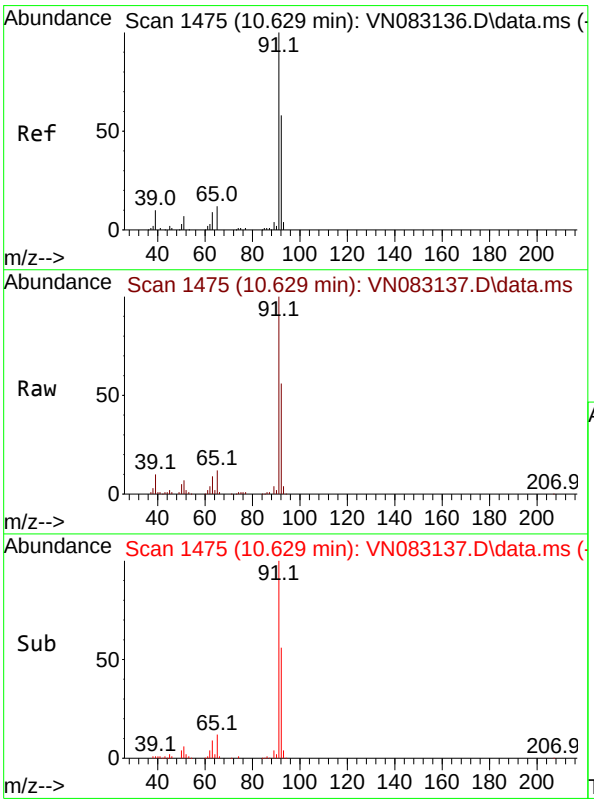
Ion	Ratio	Lower	Upper
43	100		
58	39.4	28.2	42.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

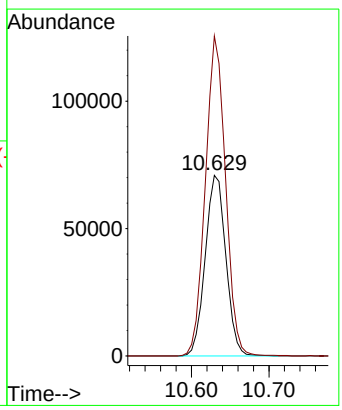
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

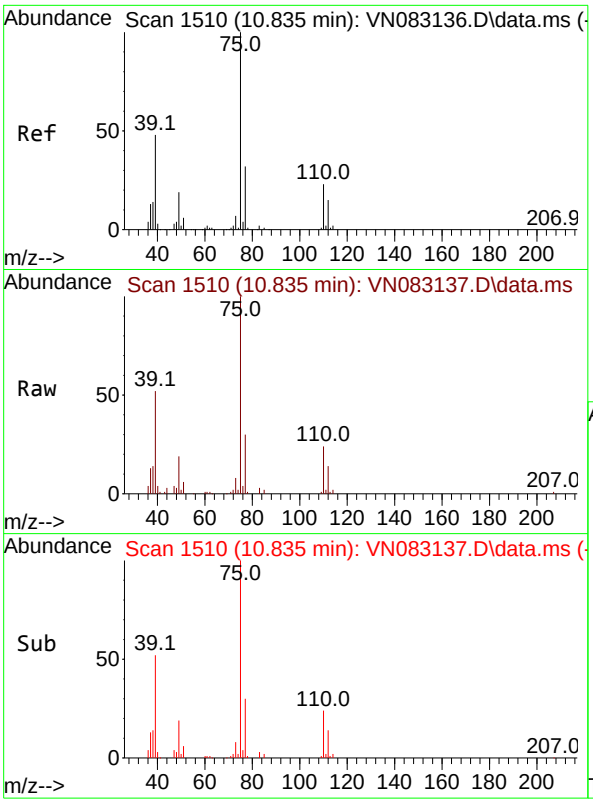


#52
Toluene
Concen: 20.358 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 92 Resp: 131247

Ion	Ratio	Lower	Upper
92	100		
91	173.0	139.4	209.0

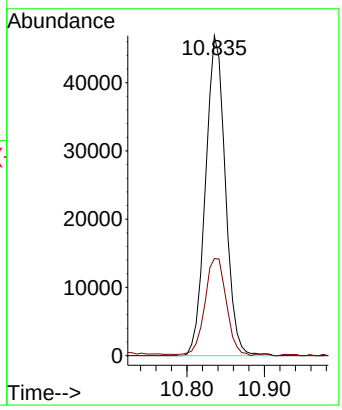




#53
t-1,3-Dichloropropene
Concen: 20.793 ug/l
RT: 10.835 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 75 Resp: 8313

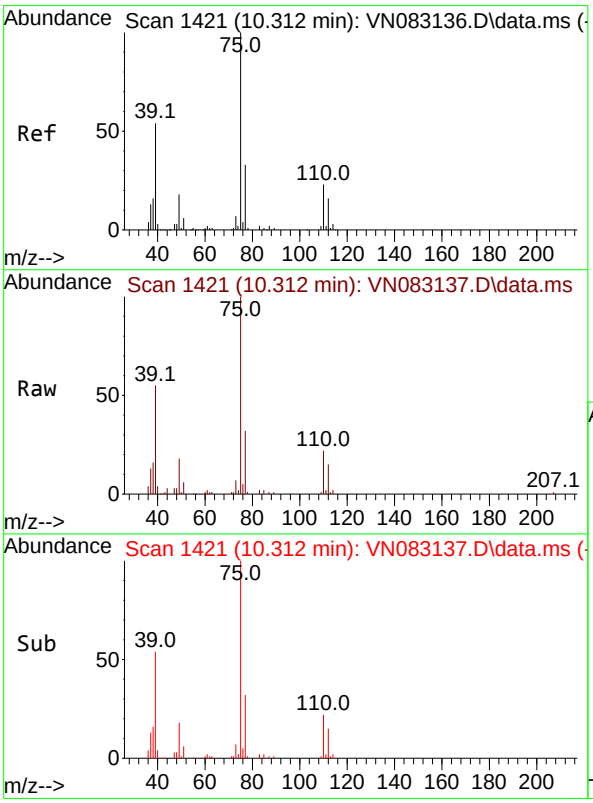
Ion	Ratio	Lower	Upper
75	100		
77	30.4	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

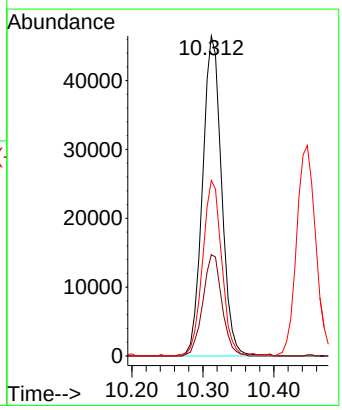
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

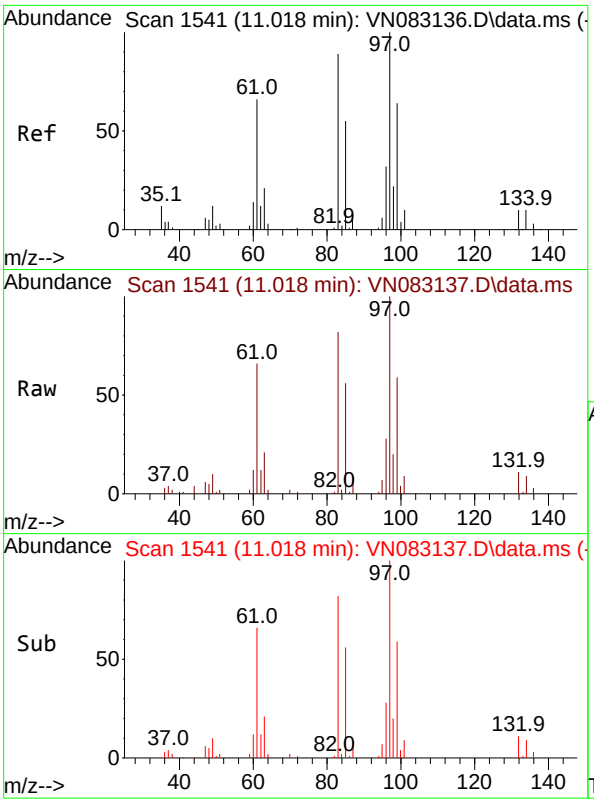


#54
cis-1,3-Dichloropropene
Concen: 20.351 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

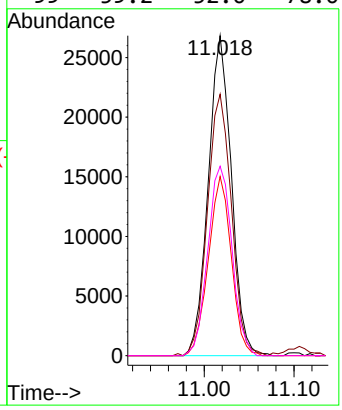




#55
1,1,2-Trichloroethane
Concen: 20.811 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 97 Resp: 4808

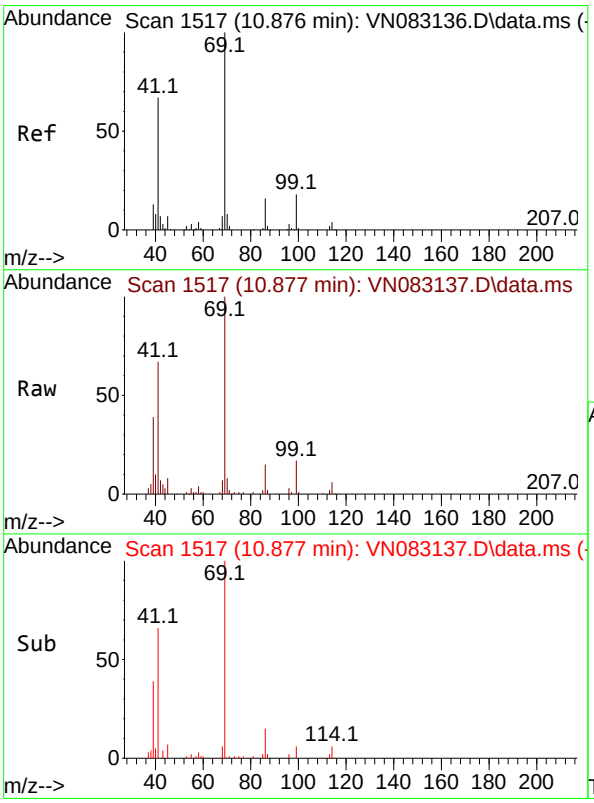
Ion	Ratio	Lower	Upper
97	100		
83	81.1	71.4	107.0
85	56.0	45.8	68.6
99	59.2	52.0	78.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

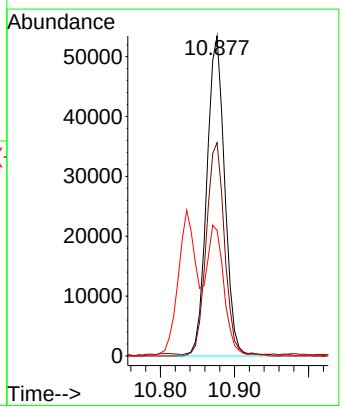
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

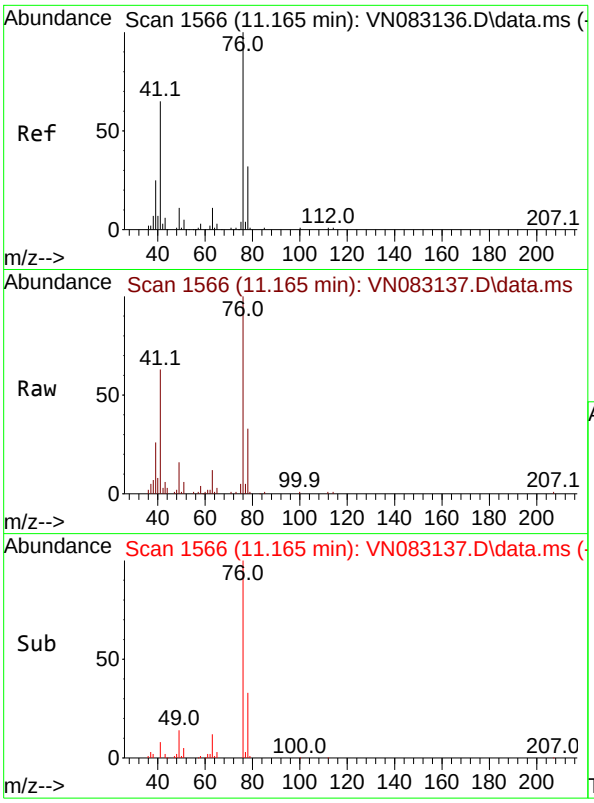


#56
Ethyl methacrylate
Concen: 20.550 ug/l
RT: 10.877 min Scan# 1517
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

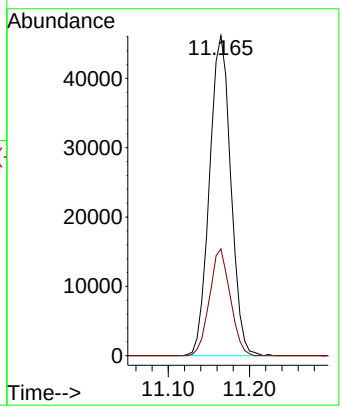




#57
1,3-Dichloropropane
Concen: 20.464 ug/l
RT: 11.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 76 Resp: 8427

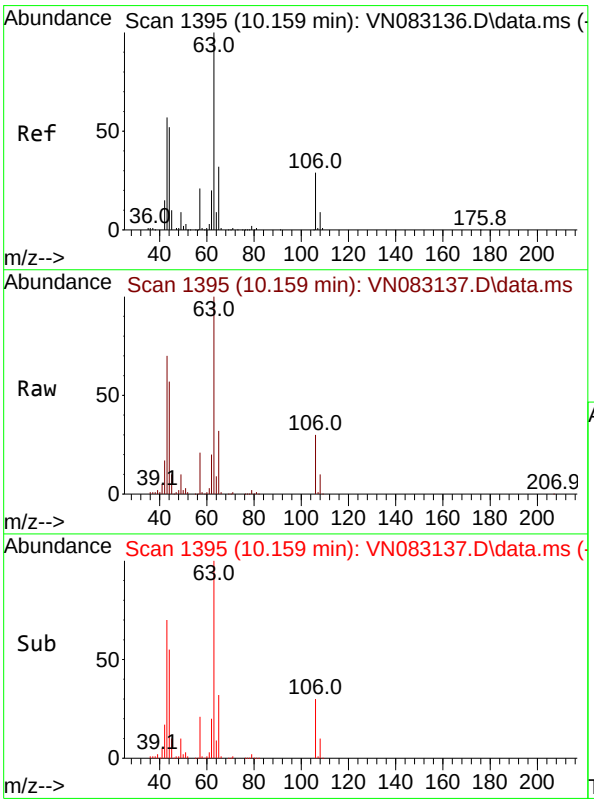
Ion	Ratio	Lower	Upper
76	100		
78	32.5	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

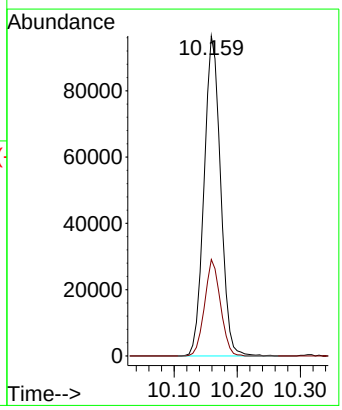
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

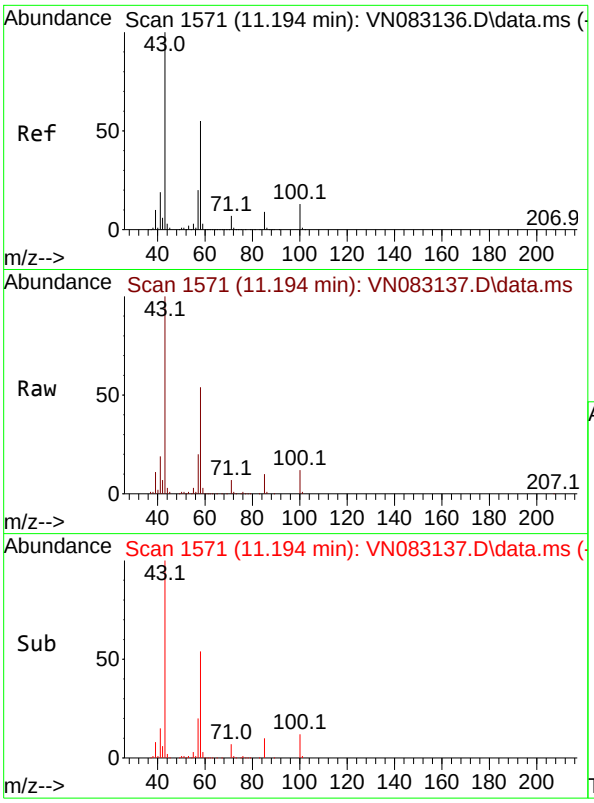


#58
2-Chloroethyl Vinyl ether
Concen: 95.242 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

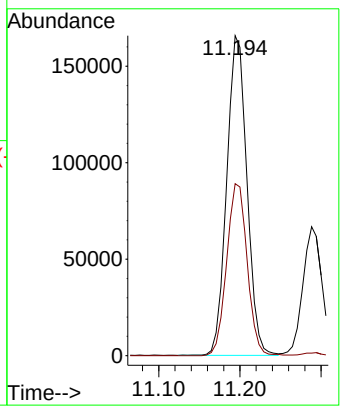
Tgt Ion: 43 Resp: 28622

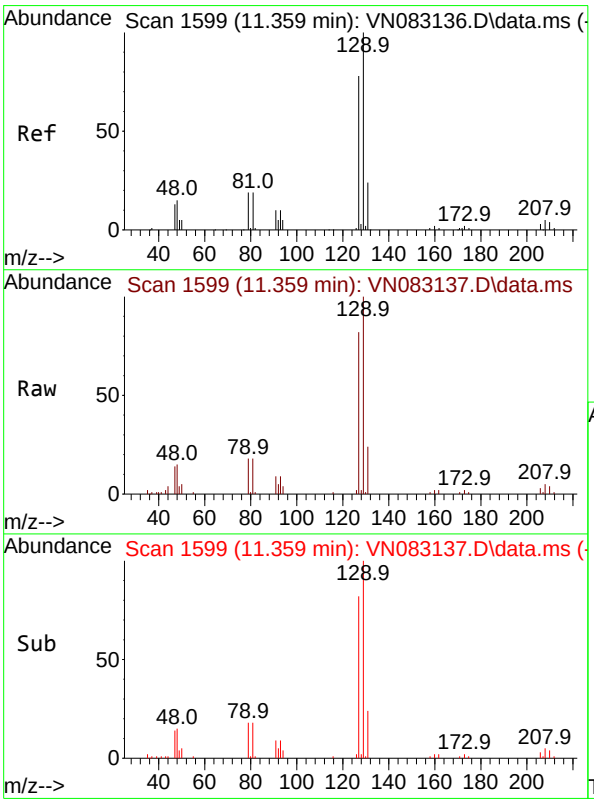
Ion	Ratio	Lower	Upper
43	100		
58	54.7	24.6	73.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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

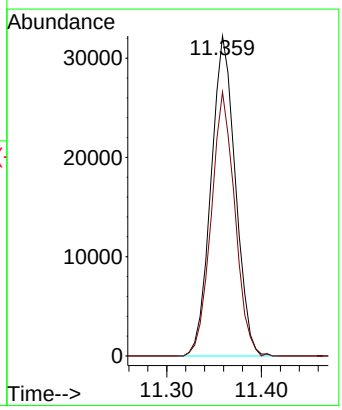


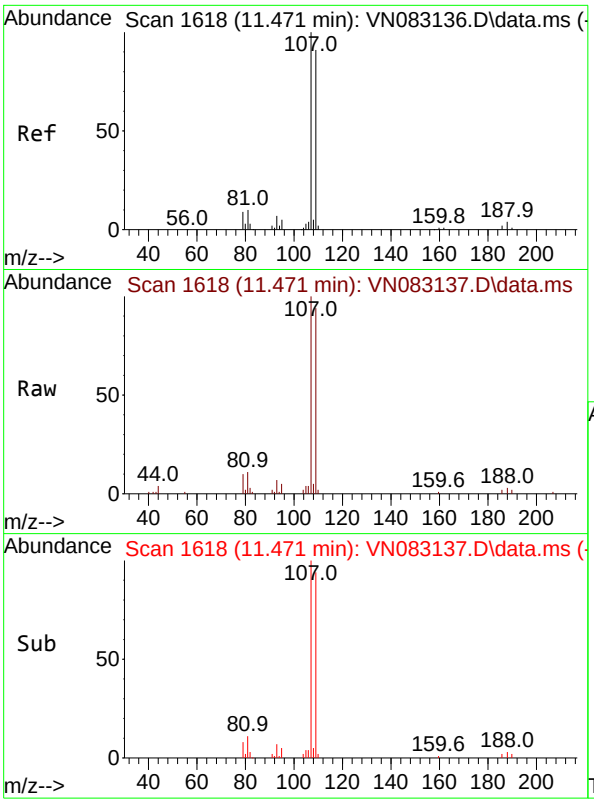


#60
Dibromochloromethane
Concen: 20.610 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

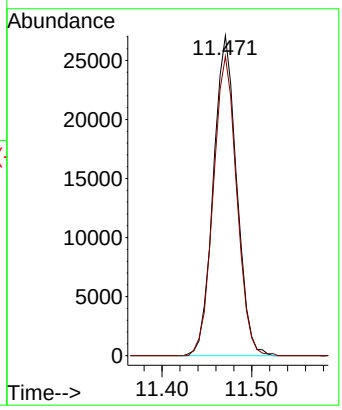
Tgt Ion:107 Resp: 4875

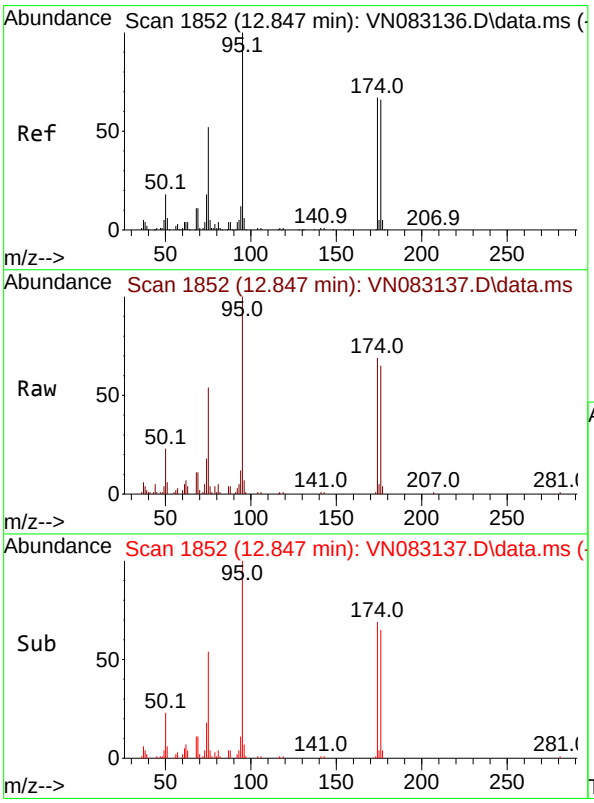
Ion	Ratio	Lower	Upper
107	100		
109	94.4	73.7	110.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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

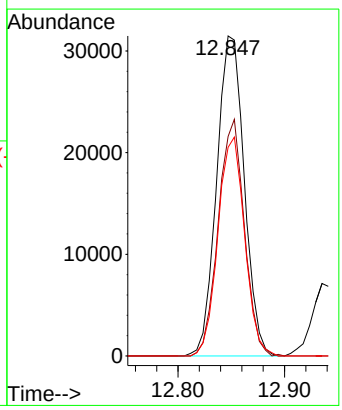


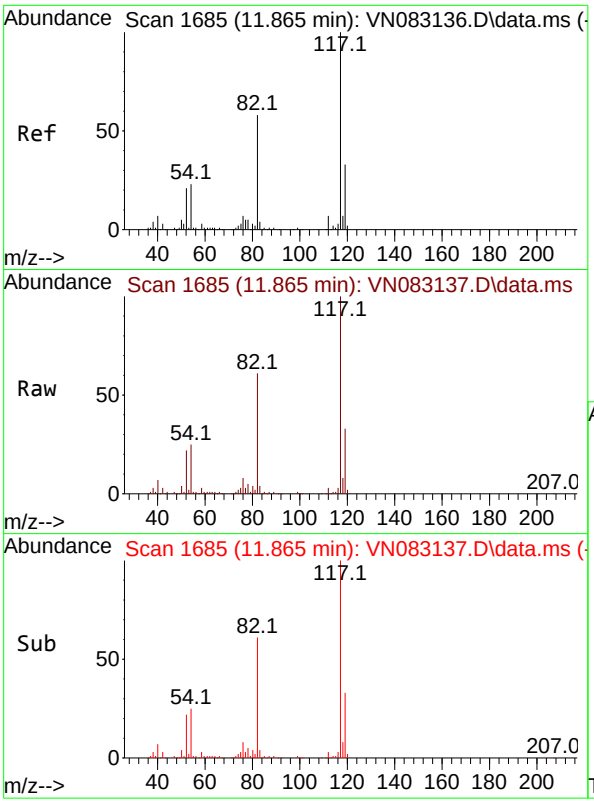


#62
4-Bromofluorobenzene
Concen: 17.179 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

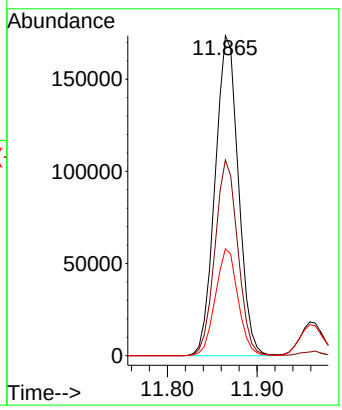
Tgt Ion:117 Resp: 31325

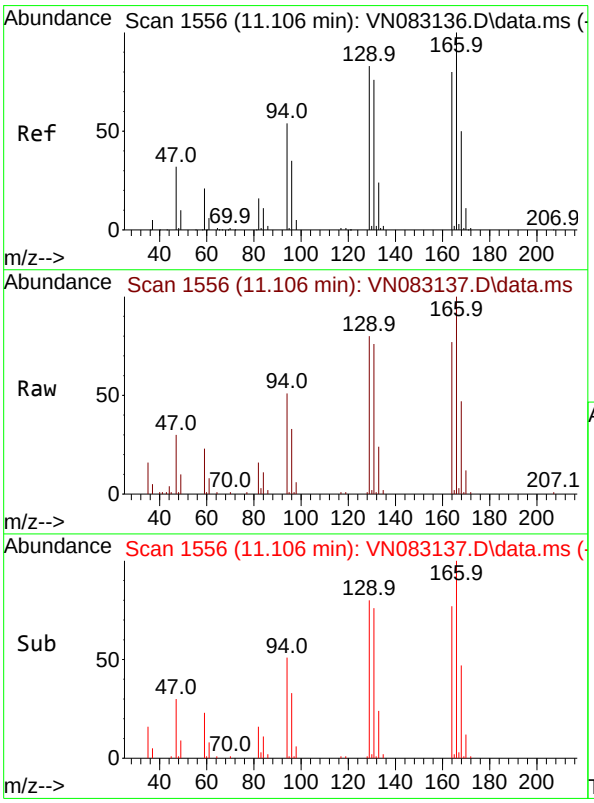
Ion	Ratio	Lower	Upper
117	100		
82	61.1	47.5	71.3
119	33.4	25.6	38.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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

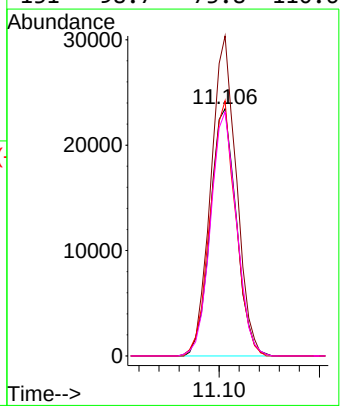


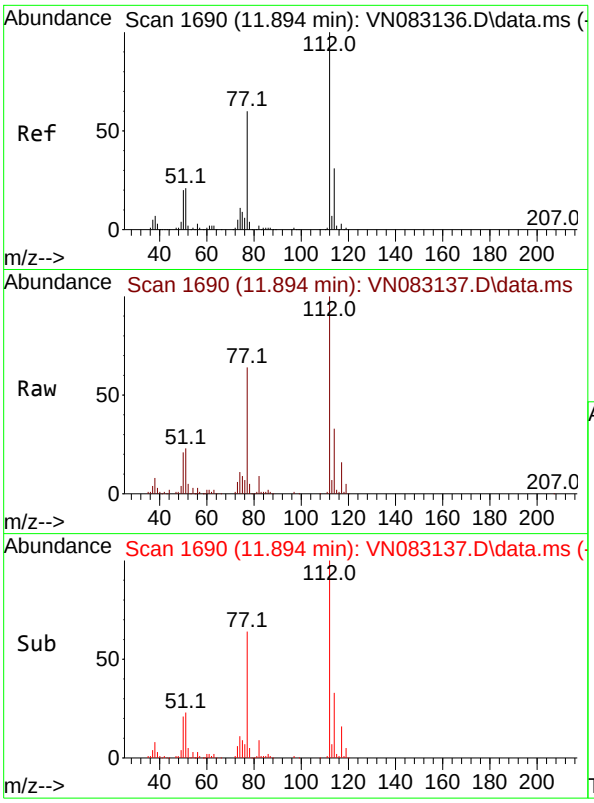


#64
Tetrachloroethene
Concen: 20.405 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

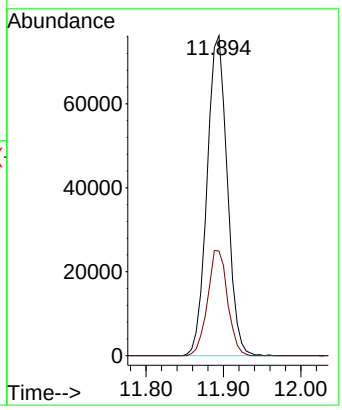




#65
Chlorobenzene
Concen: 19.933 ug/l
RT: 11.894 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:112 Resp: 13798

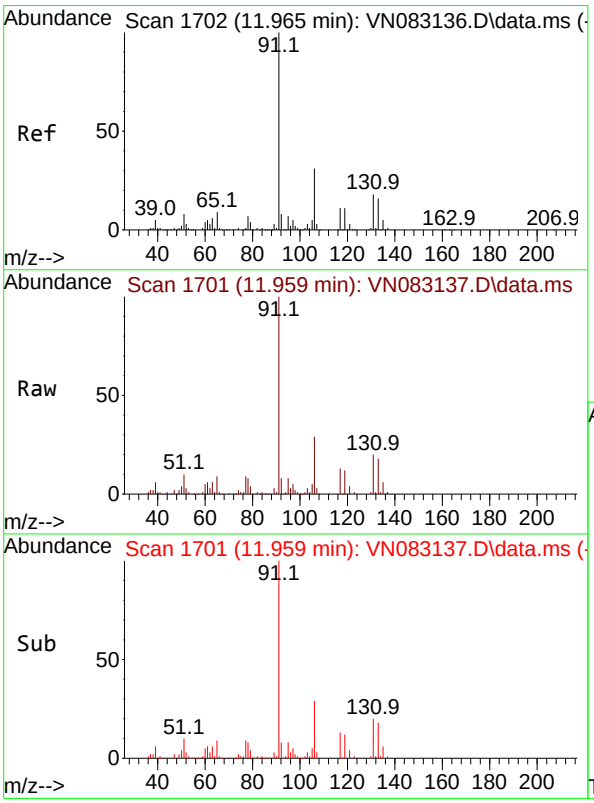
Ion	Ratio	Lower	Upper
112	100		
114	32.7	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

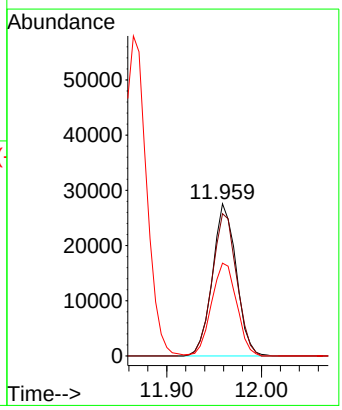
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

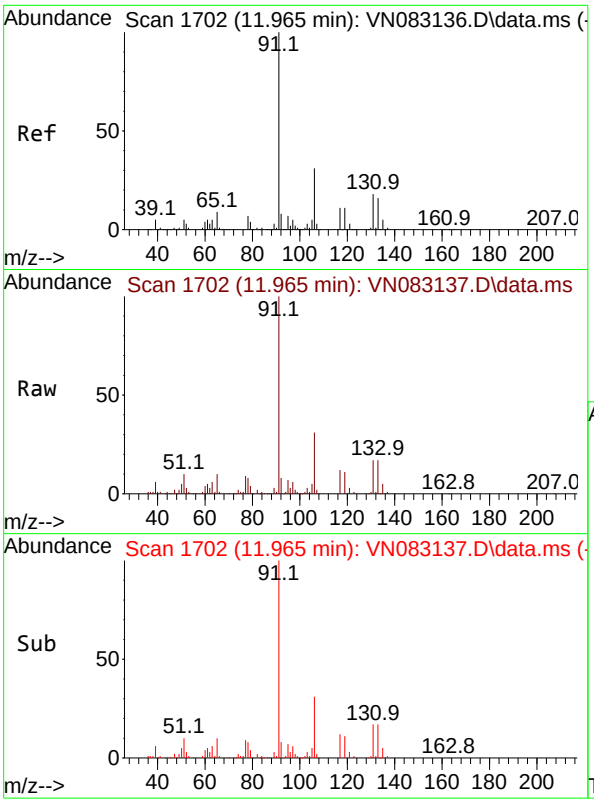


#66
1,1,1,2-Tetrachloroethane
Concen: 19.762 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

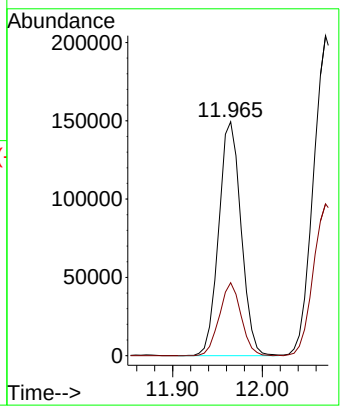
Tgt Ion: 91 Resp: 25823

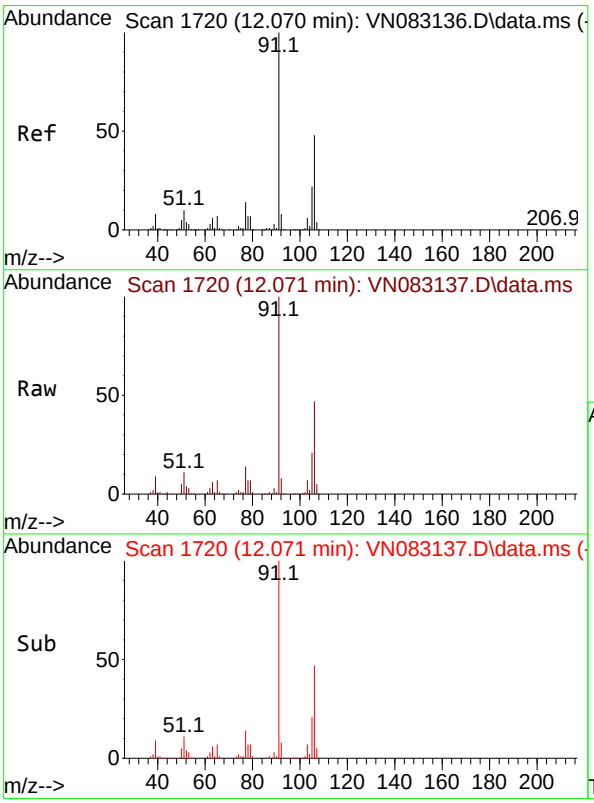
Ion	Ratio	Lower	Upper
91	100		
106	31.2	24.0	36.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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

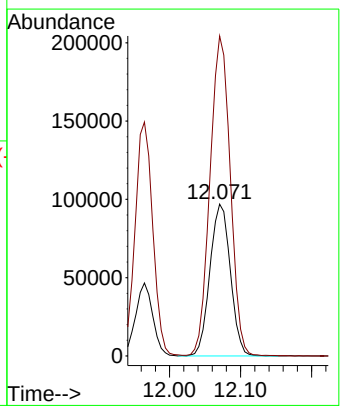


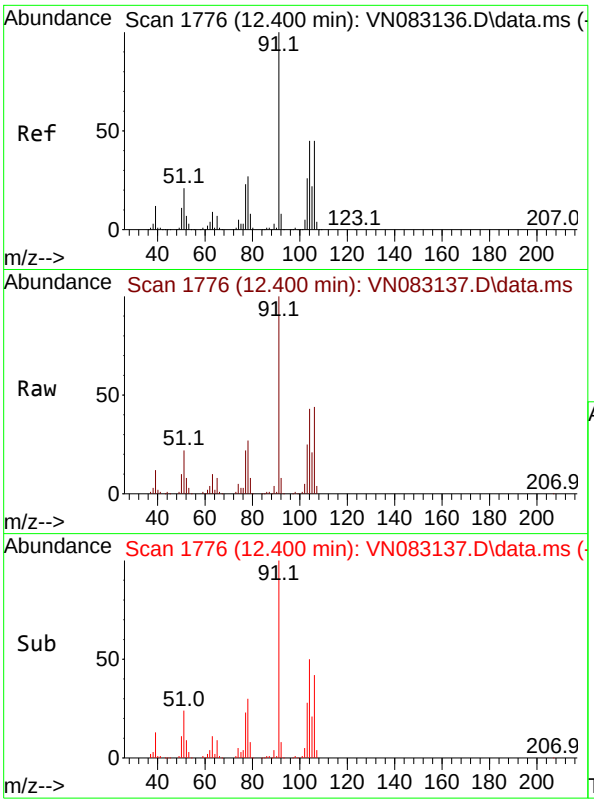


#68
m/p-Xylenes
Concen: 40.625 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

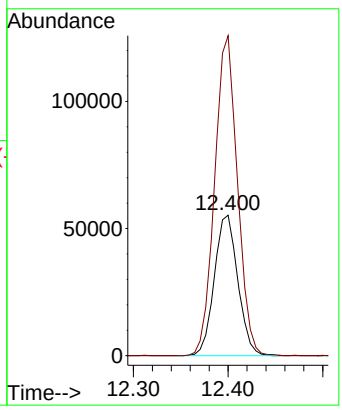
Tgt Ion:106 Resp: 9515

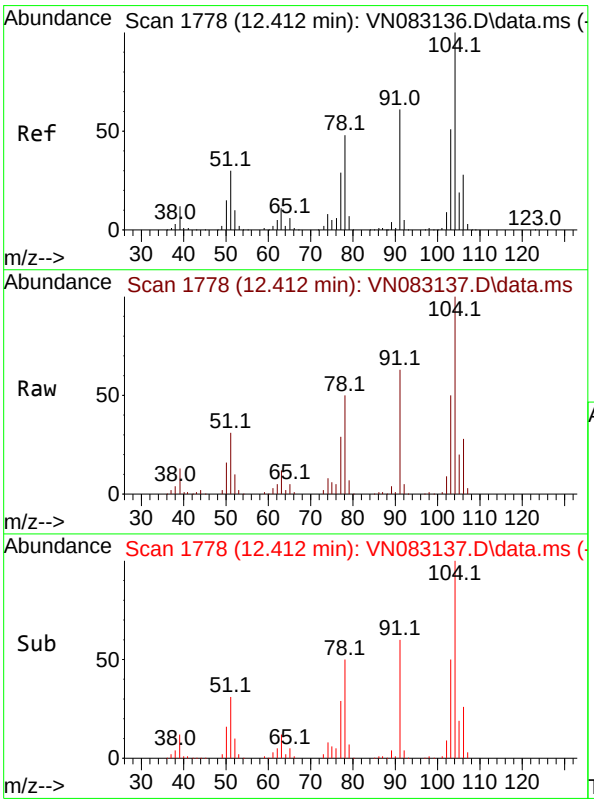
Ion	Ratio	Lower	Upper
106	100		
91	221.3	111.3	333.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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

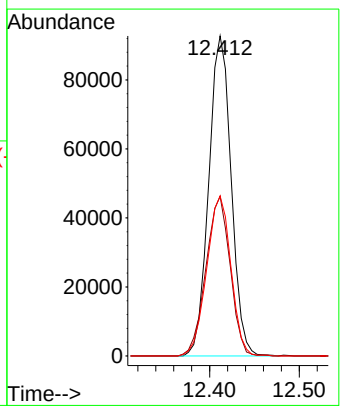


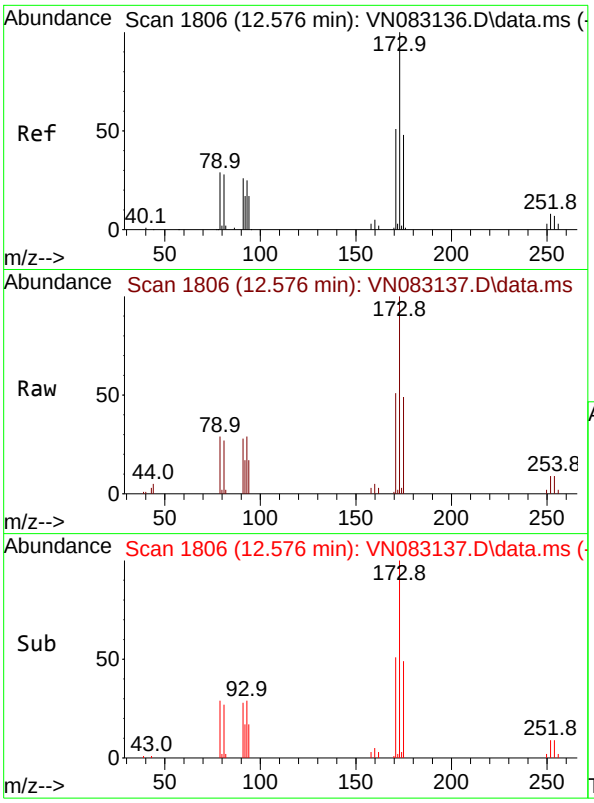


#70
Styrene
Concen: 20.475 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

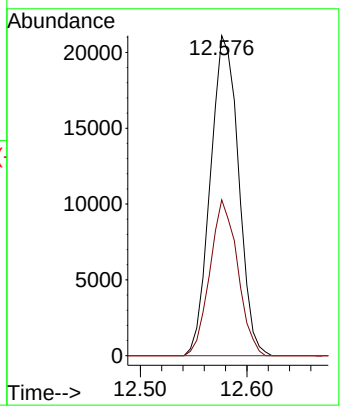




#71
Bromoform
Concen: 20.957 ug/l
RT: 12.576 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:173 Resp: 3876

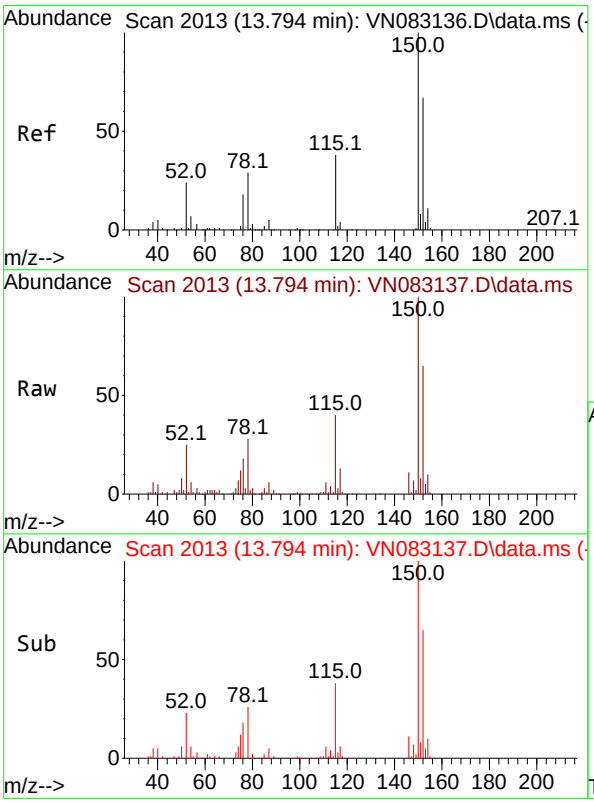
Ion	Ratio	Lower	Upper
173	100		
175	47.9	24.0	72.0
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

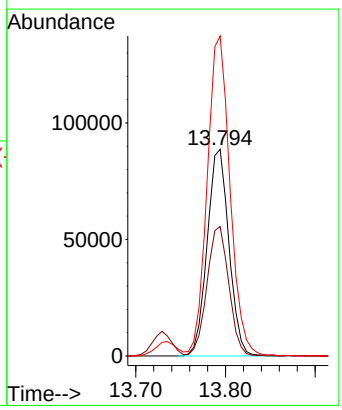
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

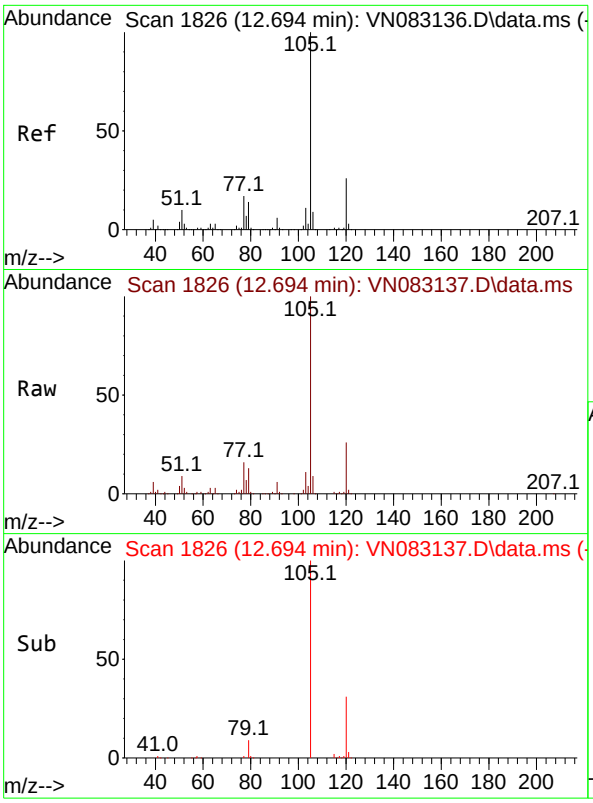


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

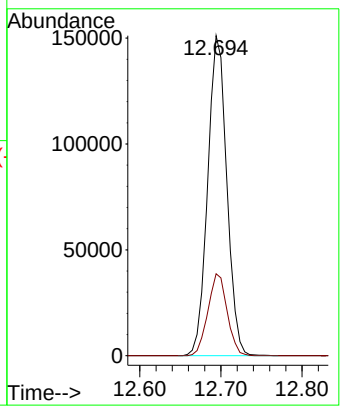




#73
Isopropylbenzene
Concen: 19.764 ug/l
RT: 12.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:105 Resp: 24671

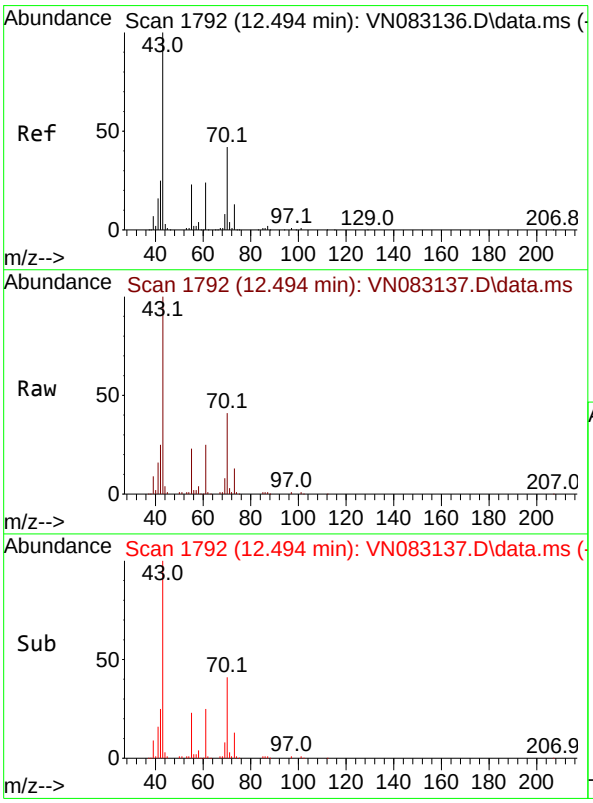
Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.9	38.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

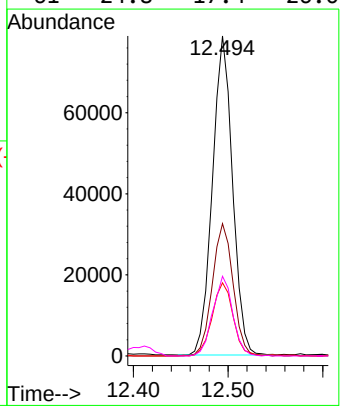
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

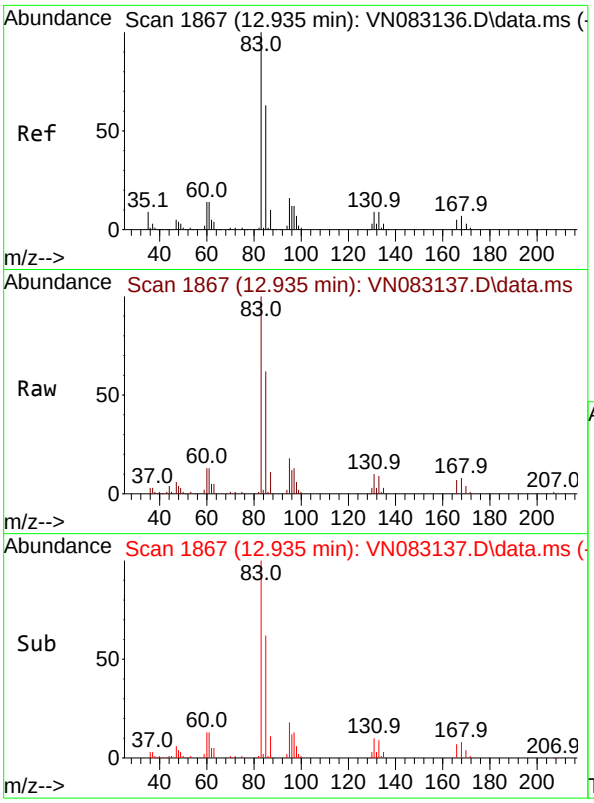


#74
N-amyl acetate
Concen: 19.014 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

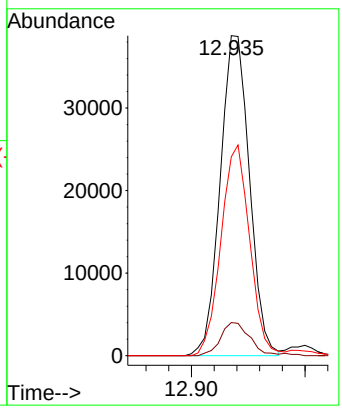
Tgt Ion: 83 Resp: 6944

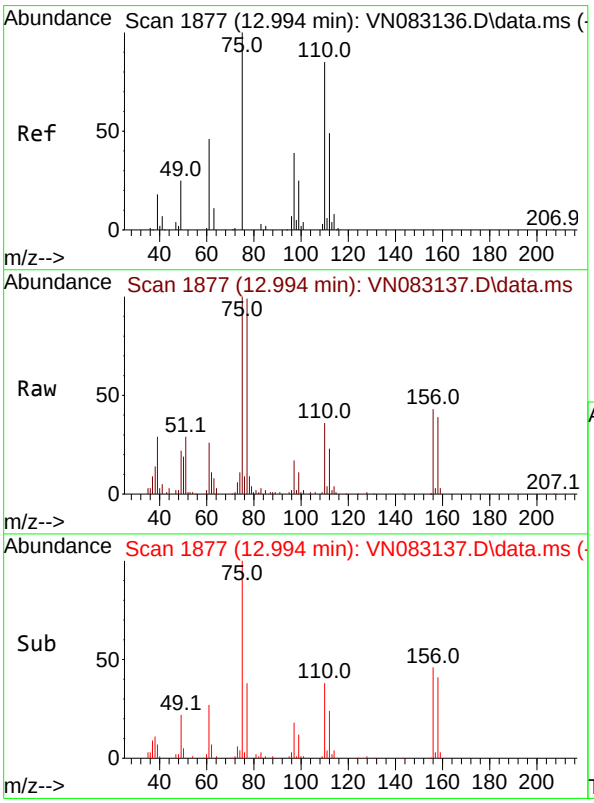
Ion	Ratio	Lower	Upper
83	100		
131	10.6	5.0	14.9
85	64.6	31.9	95.7

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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

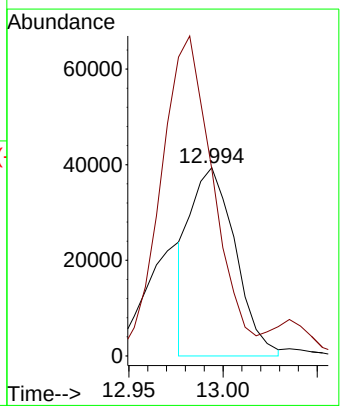


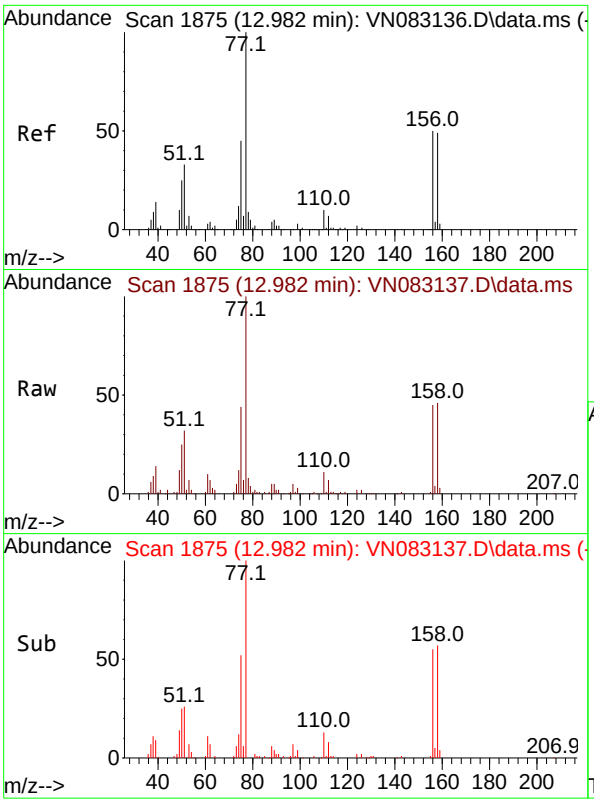


#76
1,2,3-Trichloropropane
Concen: 19.901 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 75 Resp: 65295

Ion	Ratio	Lower	Upper
75	100		
77	199.0	110.9	332.6

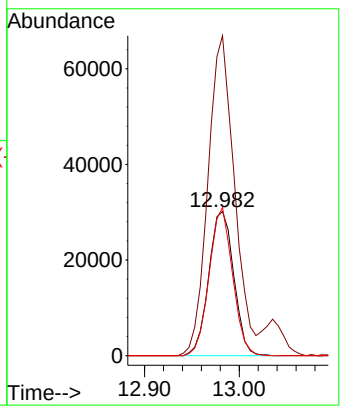




#77
Bromobenzene
Concen: 19.952 ug/l
RT: 12.982 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:156 Resp: 5532

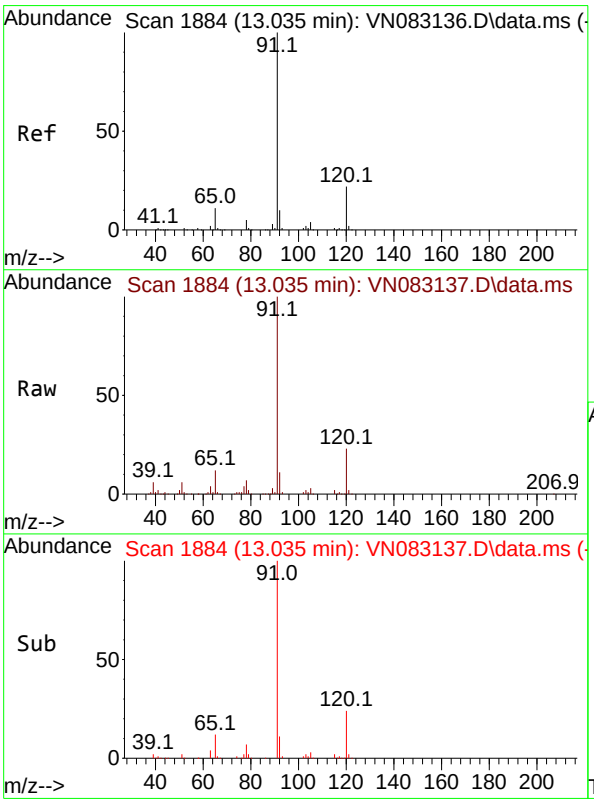
Ion	Ratio	Lower	Upper
156	100		
77	234.8	111.3	333.8
158	95.8	48.3	144.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

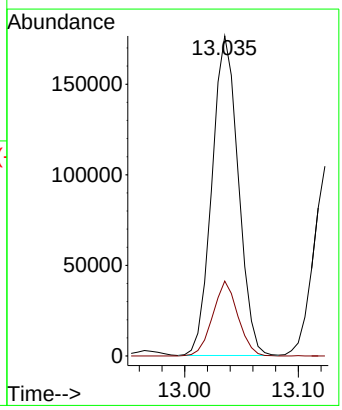
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

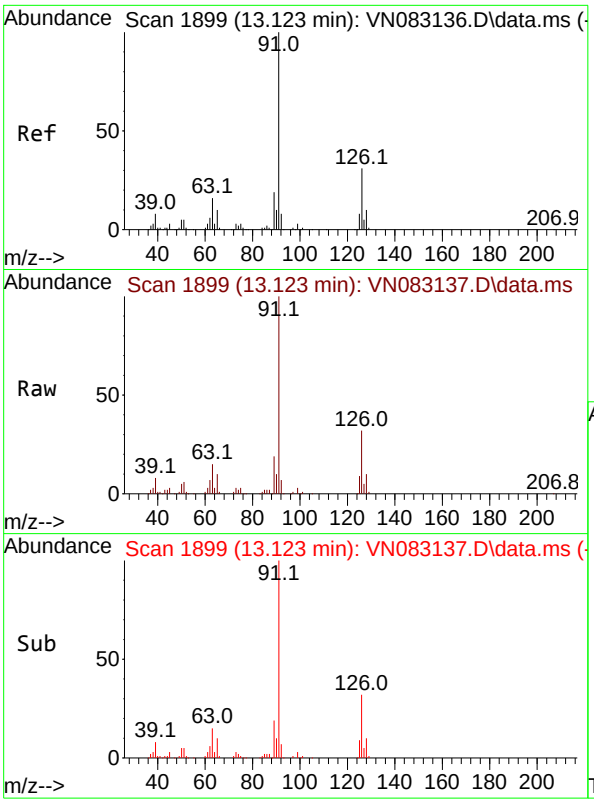


#78
n-propylbenzene
Concen: 19.740 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 91 Resp: 283745

Ion	Ratio	Lower	Upper
91	100		
120	22.4	10.9	32.9

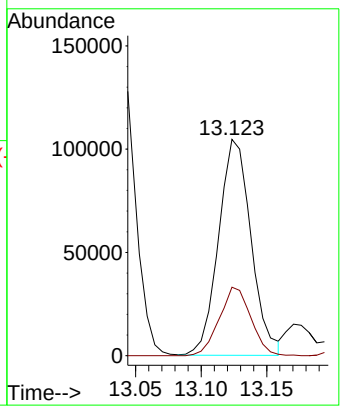




#79
2-Chlorotoluene
Concen: 19.827 ug/l
RT: 13.123 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 91 Resp: 18068

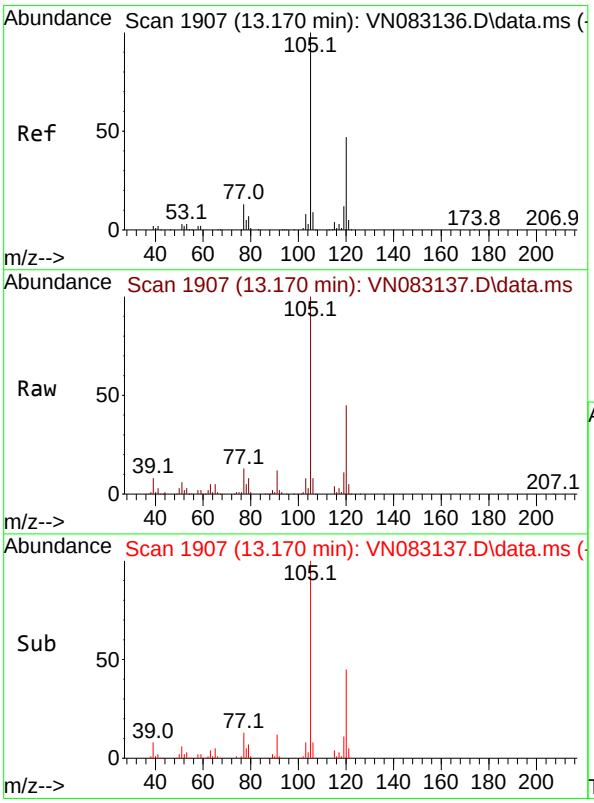
Ion	Ratio	Lower	Upper
91	100		
126	30.7	16.2	48.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

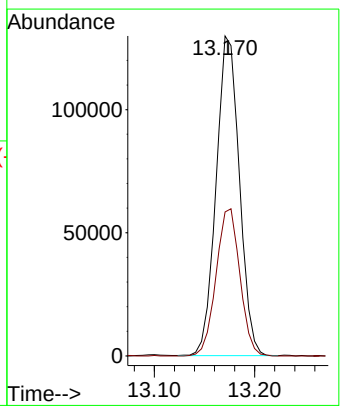
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

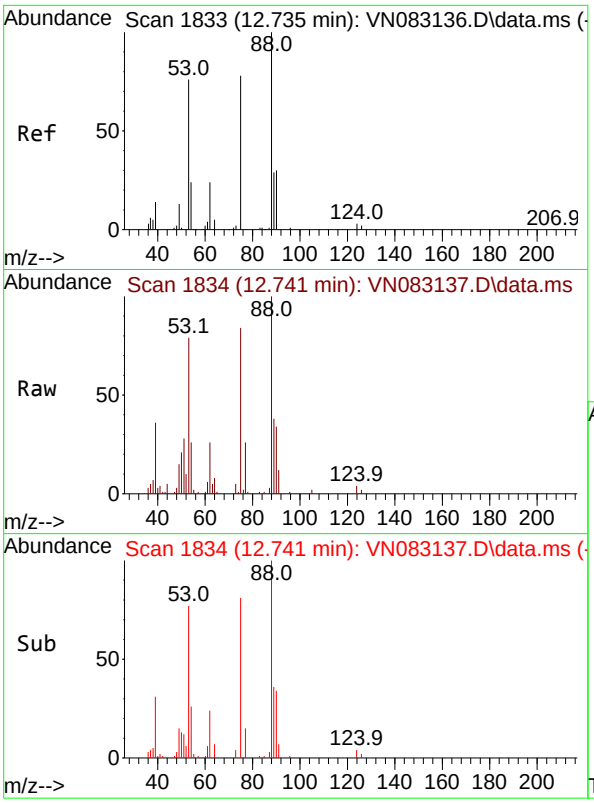


#80
1,3,5-Trimethylbenzene
Concen: 19.938 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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# 1
Delta R.T. 0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

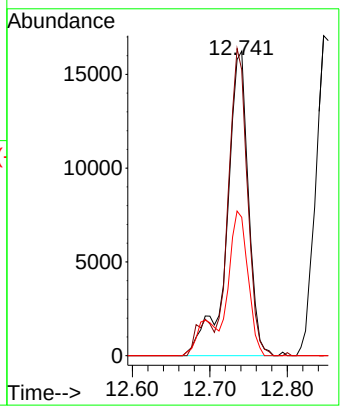
Tgt Ion: 75 Resp: 3126

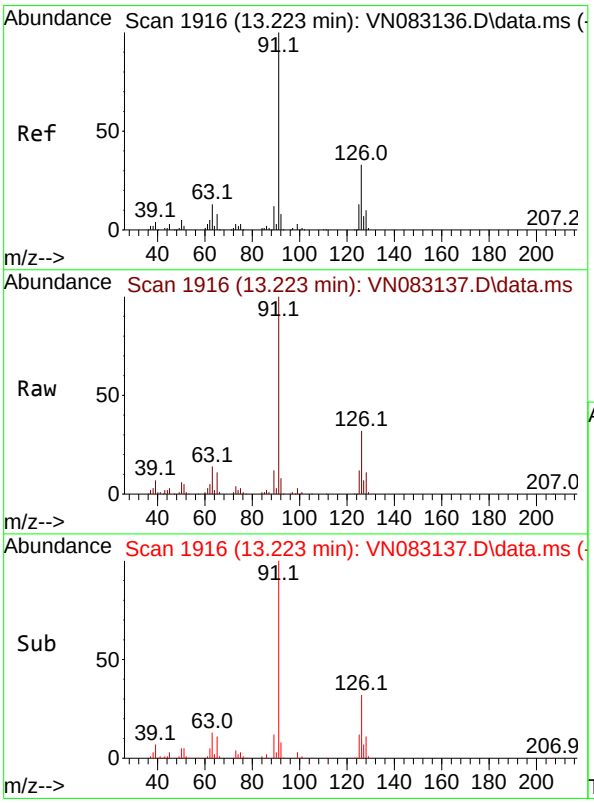
Ion	Ratio	Lower	Upper
75	100		
53	88.0	88.4	132.6
89	41.4	36.3	54.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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

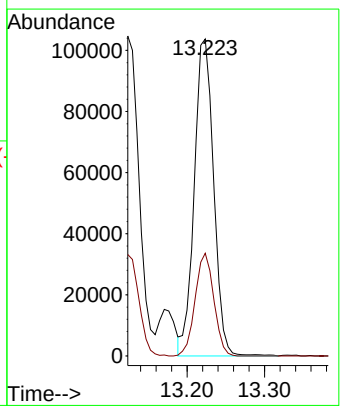


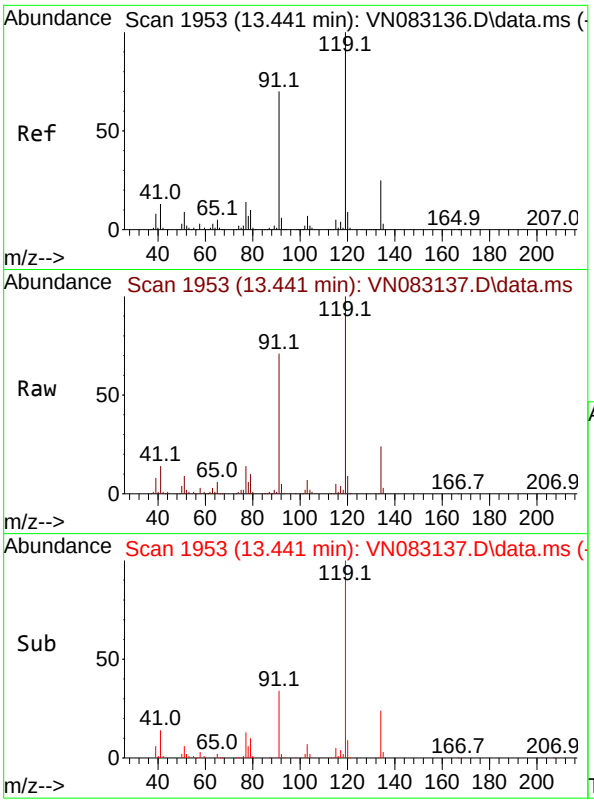


#82
4-Chlorotoluene
Concen: 19.684 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 91 Resp: 179932

Ion	Ratio	Lower	Upper
91	100		
126	31.3	16.2	48.6

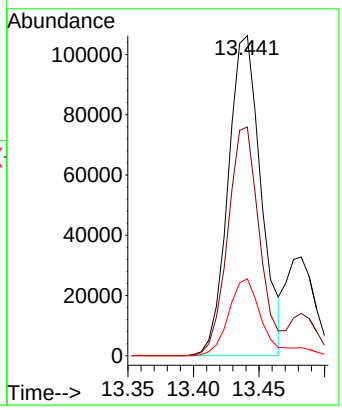




#83
tert-Butylbenzene
Concen: 19.985 ug/l
RT: 13.441 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:119 Resp: 18496

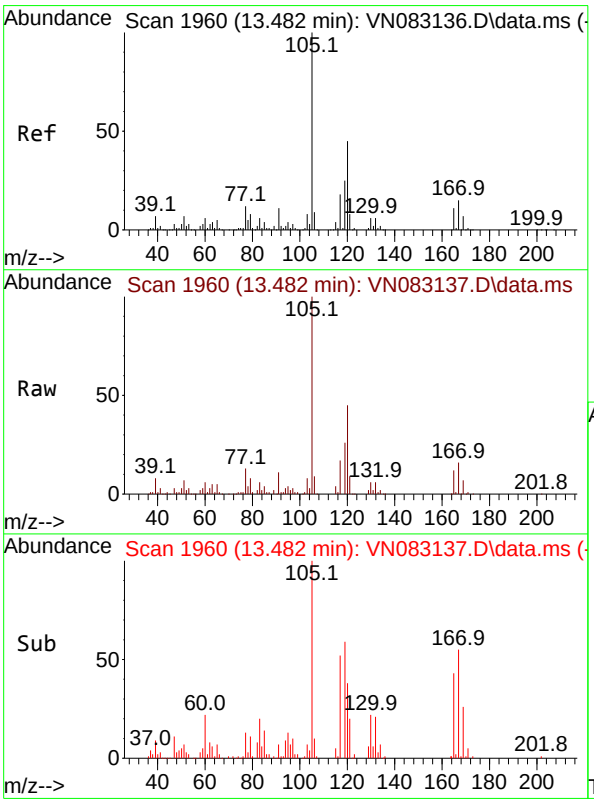
Ion	Ratio	Lower	Upper
119	100		
91	70.2	35.0	105.1
134	25.2	13.3	39.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

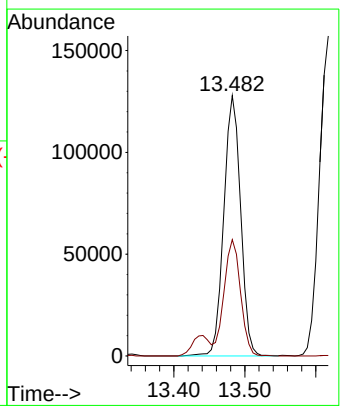
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

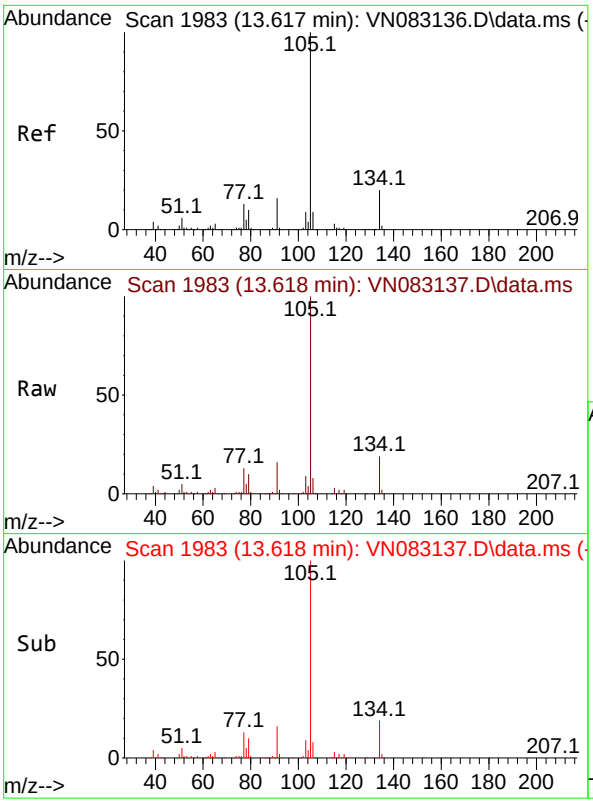


#84
1,2,4-Trimethylbenzene
Concen: 19.984 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

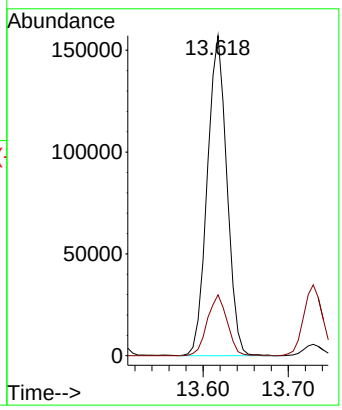
Tgt Ion:105 Resp: 25082

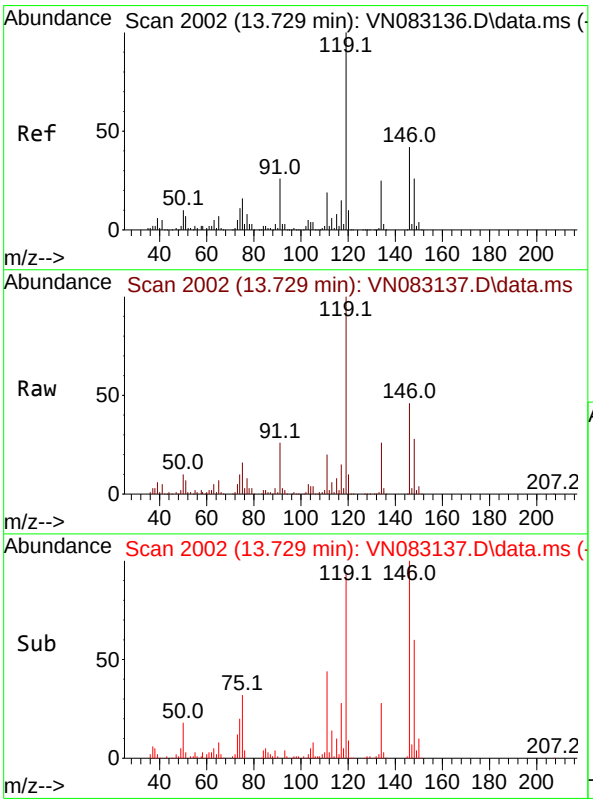
Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.8	29.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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

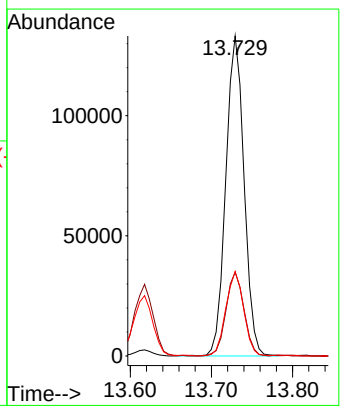


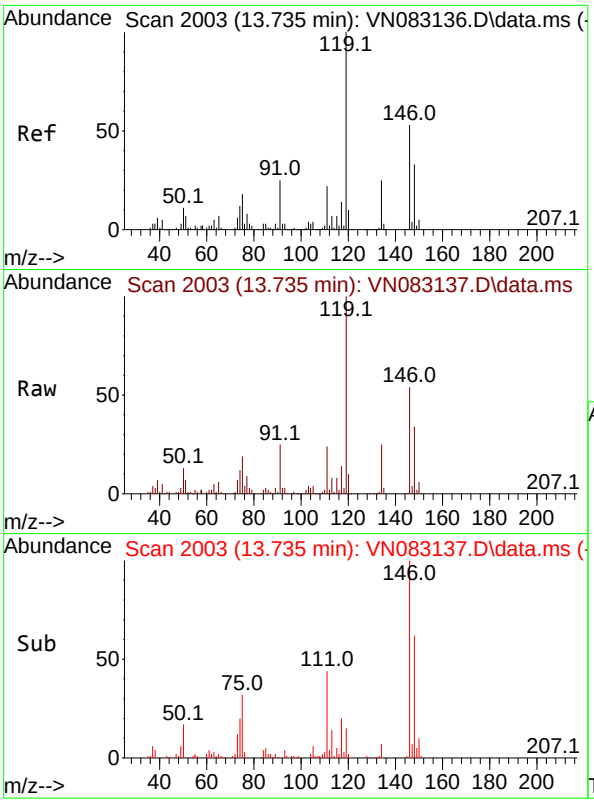


#86
p-Isopropyltoluene
Concen: 19.986 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

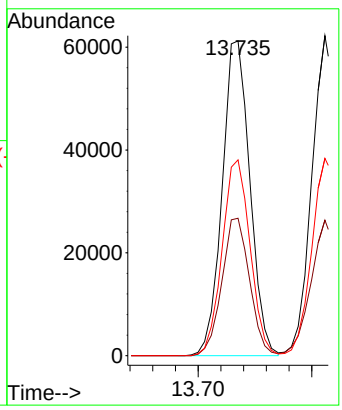




#87
1,3-Dichlorobenzene
Concen: 19.897 ug/l
RT: 13.735 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:146 Resp: 10381

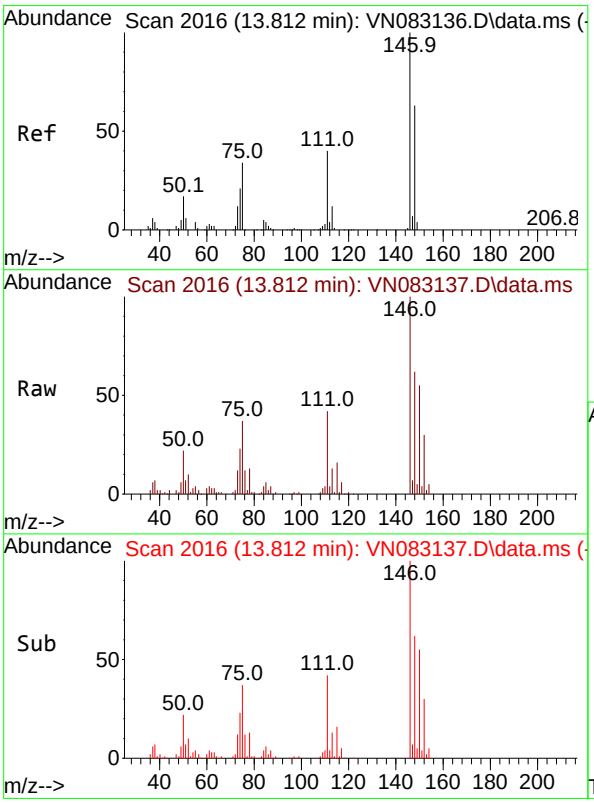
Ion	Ratio	Lower	Upper
146	100		
111	43.7	20.6	61.9
148	62.7	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

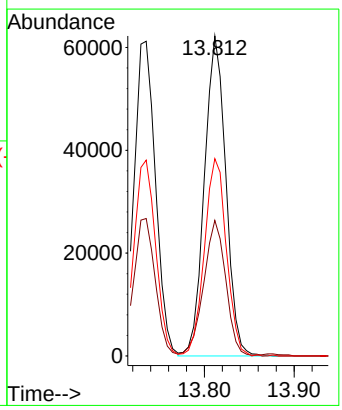
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

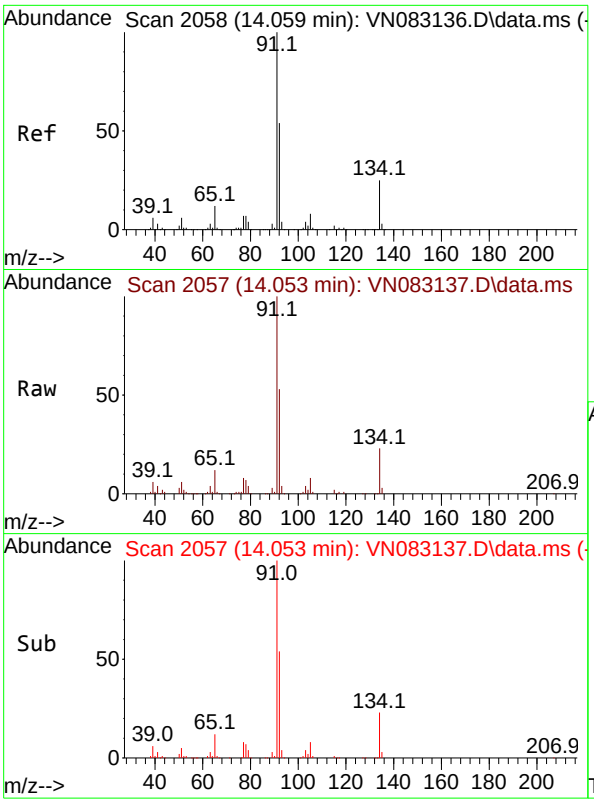


#88
1,4-Dichlorobenzene
Concen: 19.605 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

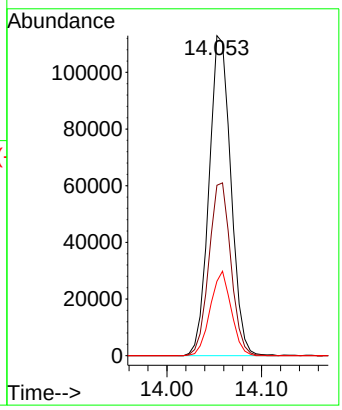




#89
n-Butylbenzene
Concen: 19.975 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 91 Resp: 18048

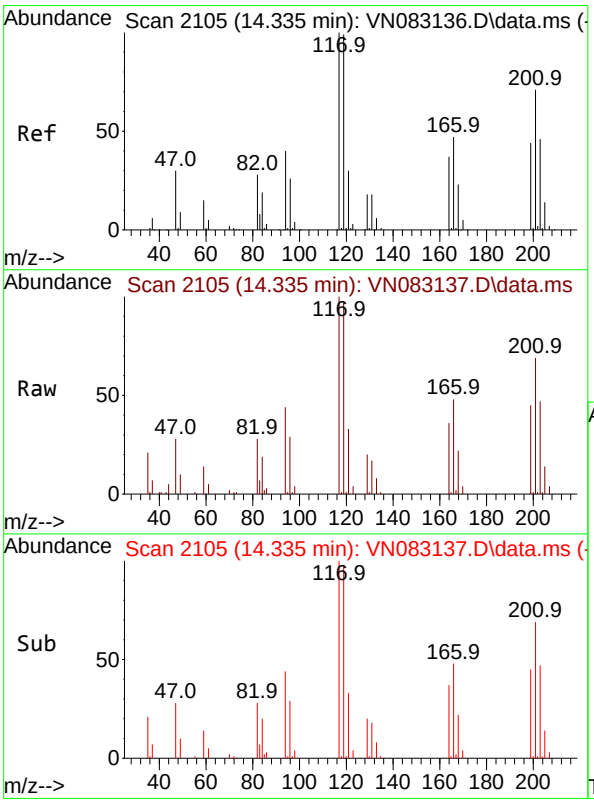
Ion	Ratio	Lower	Upper
91	100		
92	54.3	26.1	78.3
134	25.4	12.1	36.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

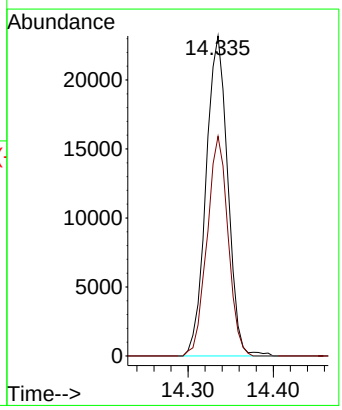
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

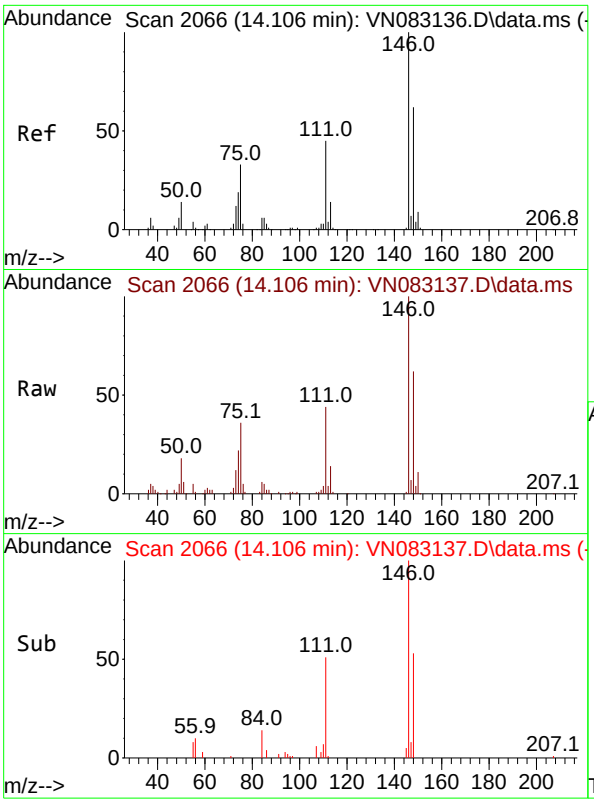


#90
Hexachloroethane
Concen: 20.343 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:117 Resp: 40982

Ion	Ratio	Lower	Upper
117	100		
201	66.5	35.8	107.3

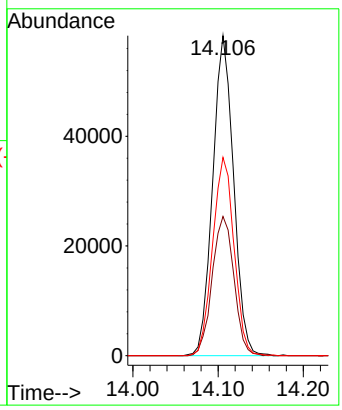




#91
1,2-Dichlorobenzene
Concen: 19.673 ug/l
RT: 14.106 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:146 Resp: 9933

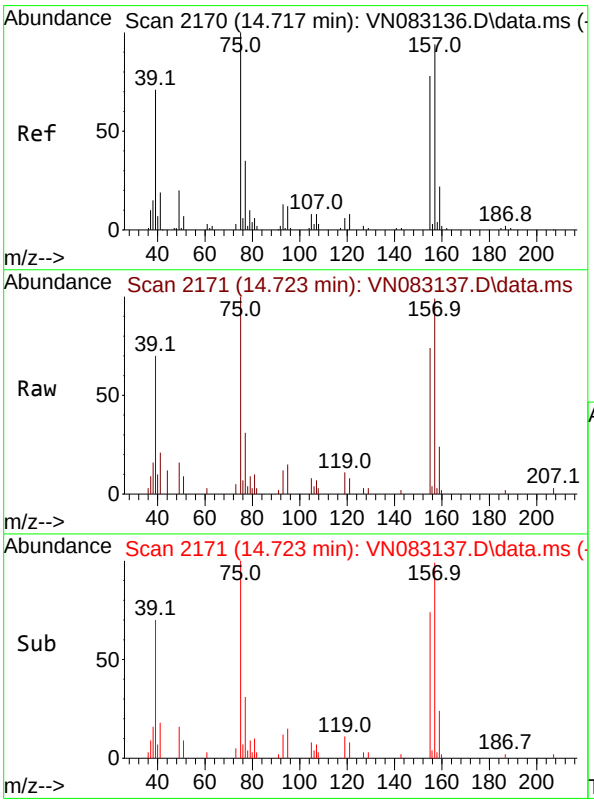
Ion	Ratio	Lower	Upper
146	100		
111	45.3	21.4	64.2
148	63.5	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

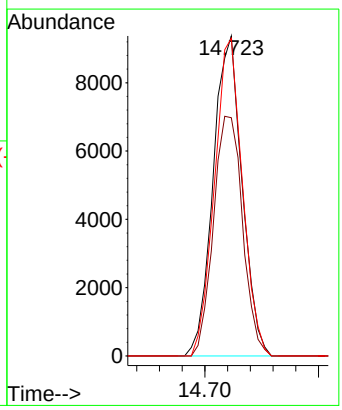
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

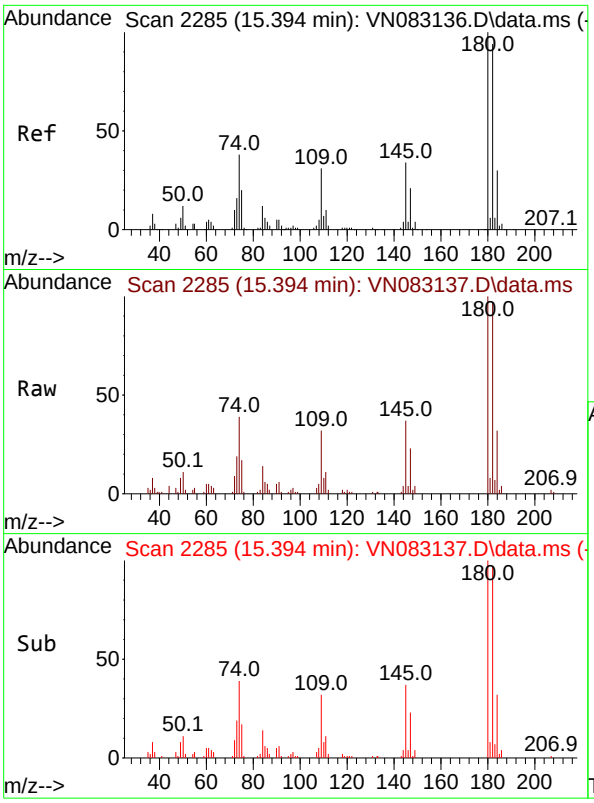


#92
1,2-Dibromo-3-Chloropropane
Concen: 19.320 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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# 2
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

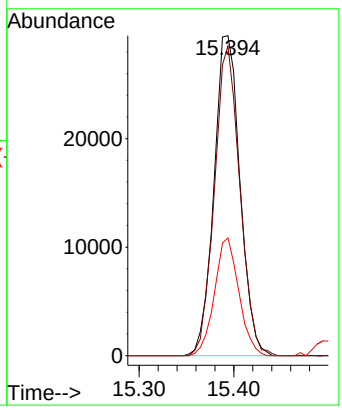
Tgt Ion:180 Resp: 5629

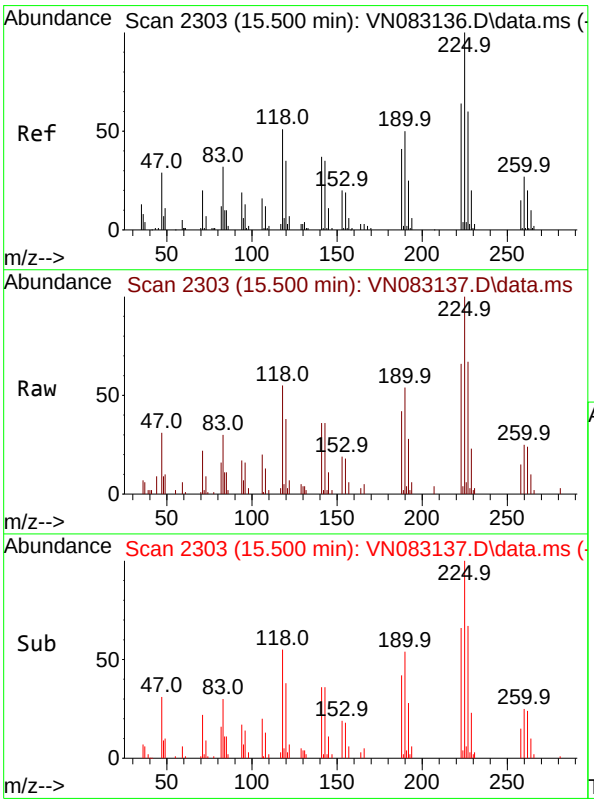
Ion	Ratio	Lower	Upper
180	100		
182	94.3	47.3	141.8
145	34.5	15.7	47.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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

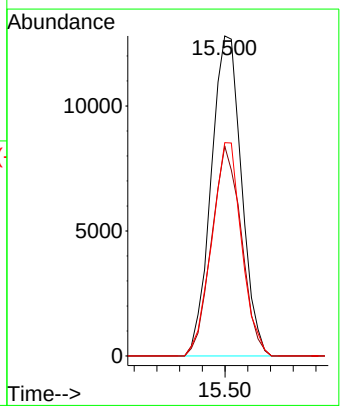


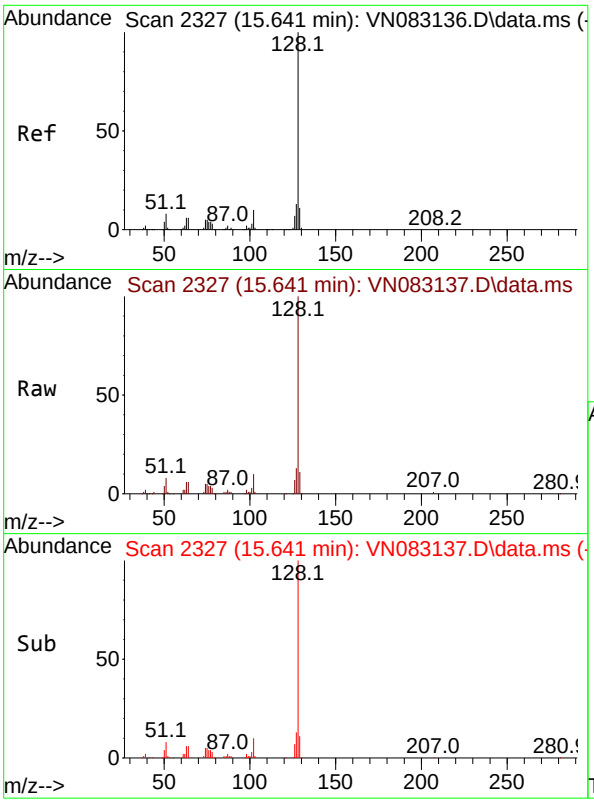


#94
Hexachlorobutadiene
Concen: 18.859 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

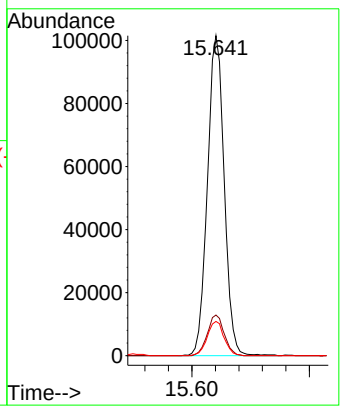




#95
Naphthalene
Concen: 20.047 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:128 Resp: 20087

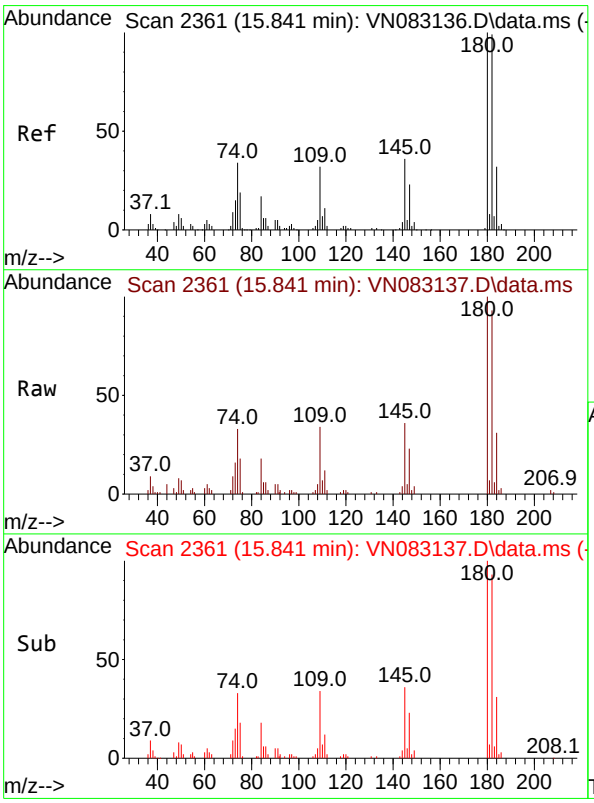
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.6	16.0
129	10.8	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

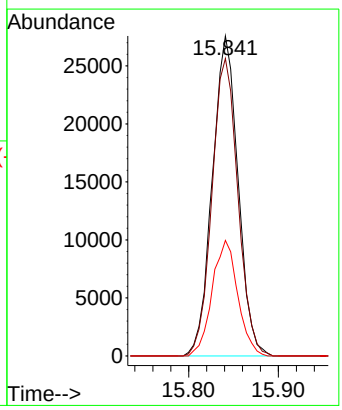
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#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



Quantitation Report (QT Reviewed)

ICAL Form

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

ICAL Form

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

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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	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

ICAL Form

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

ICAL Form

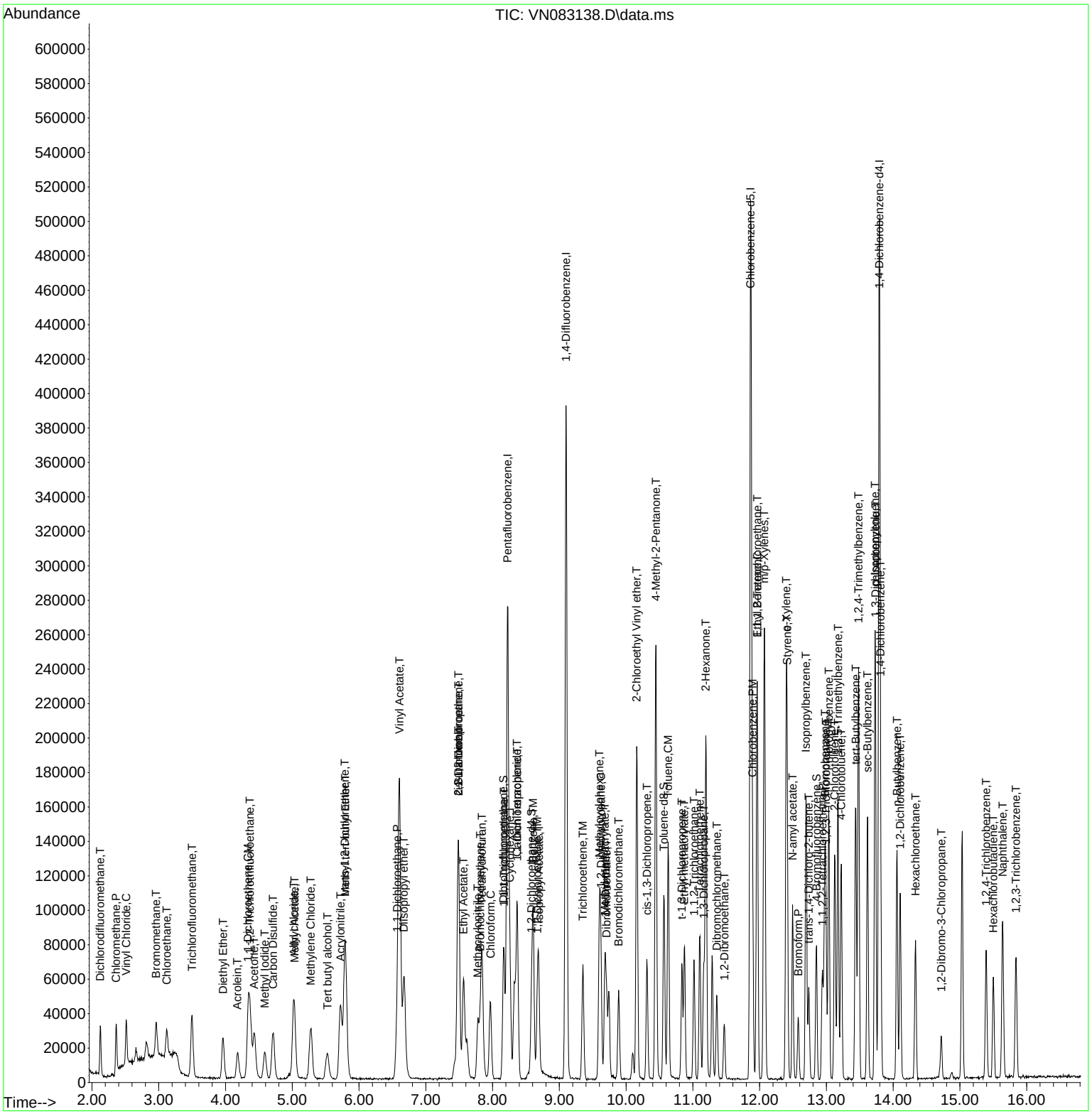
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083138.D
Acq On : 07 Aug 2024 11:46
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

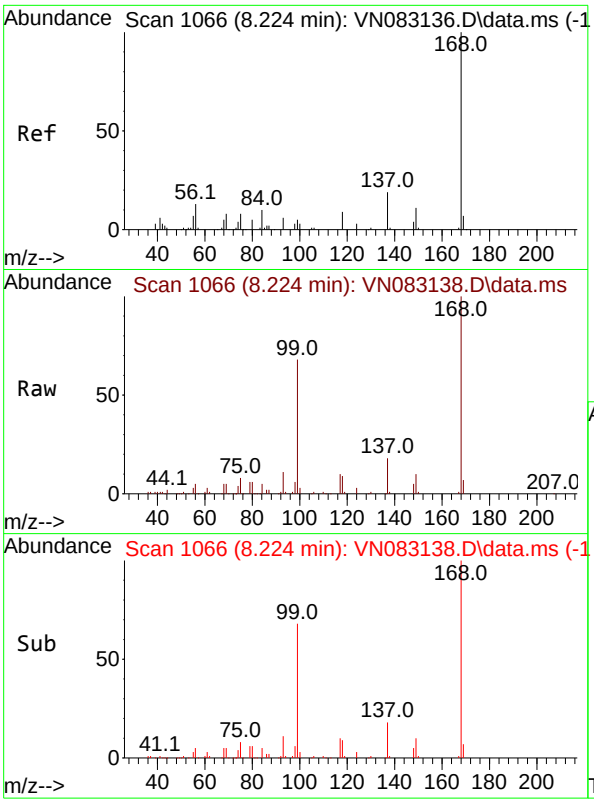
Quant Time: Aug 08 06:17:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

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

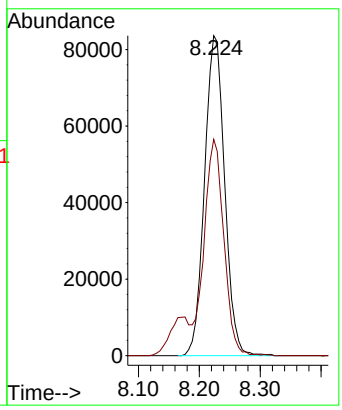




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:168 Resp: 19175

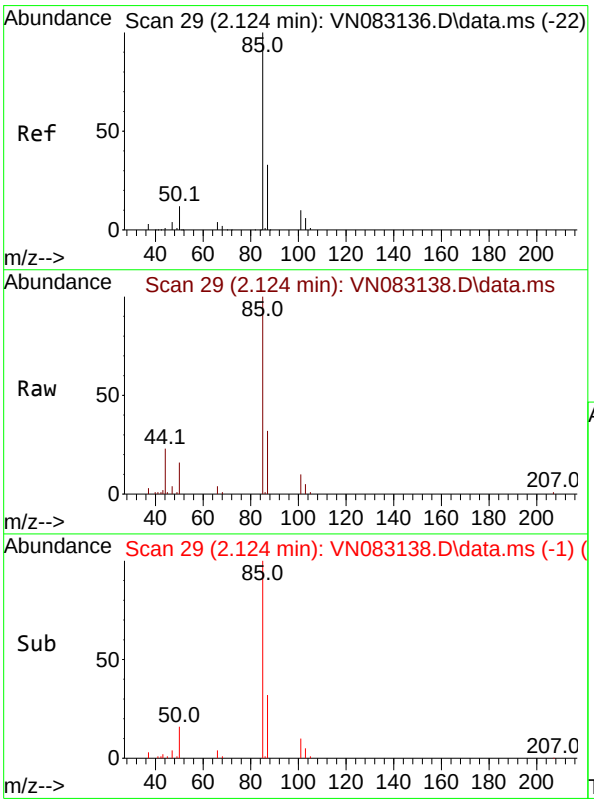
Ion	Ratio	Lower	Upper
168	100		
99	67.6	48.2	72.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

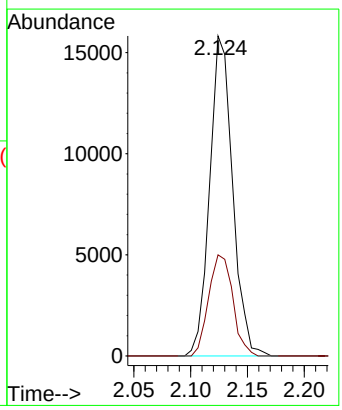
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

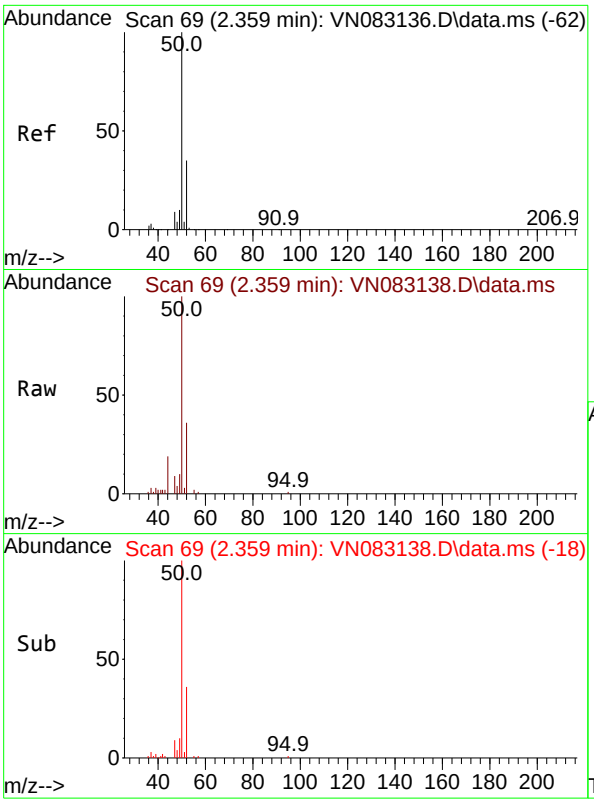


#2
Dichlorodifluoromethane
Concen: 10.212 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 85 Resp: 22206

Ion	Ratio	Lower	Upper
85	100		
87	31.6	15.7	47.0

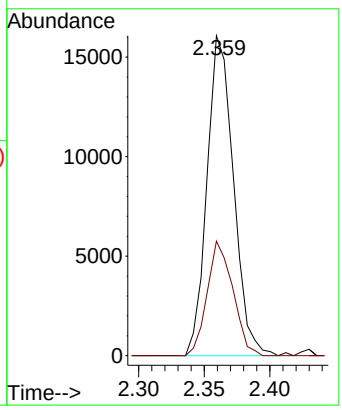




#3
Chloromethane
Concen: 10.150 ug/l
RT: 2.359 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 50 Resp: 2259

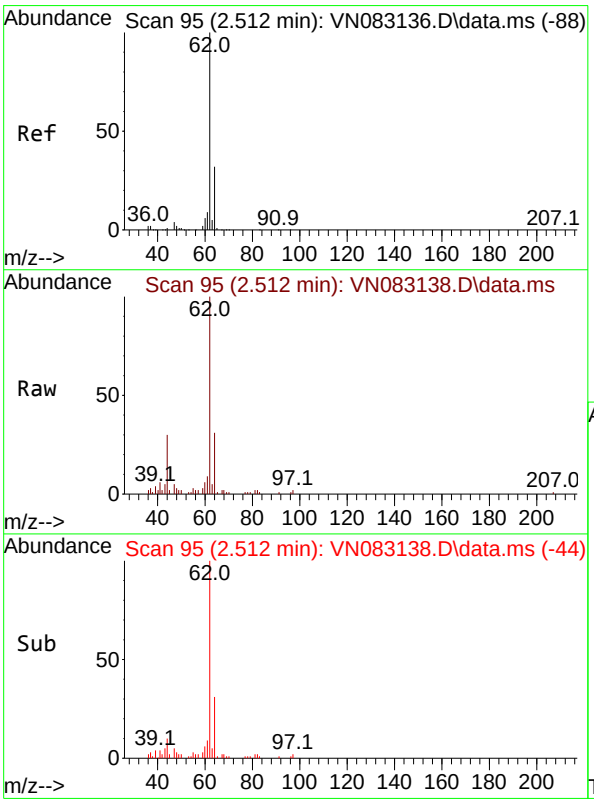
Ion	Ratio	Lower	Upper
50	100		
52	35.8	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

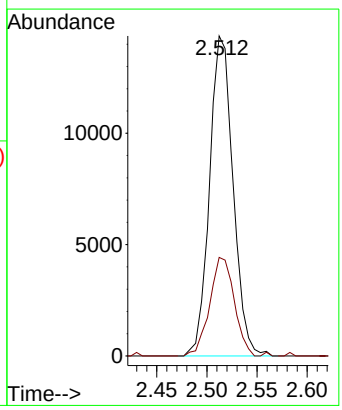
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

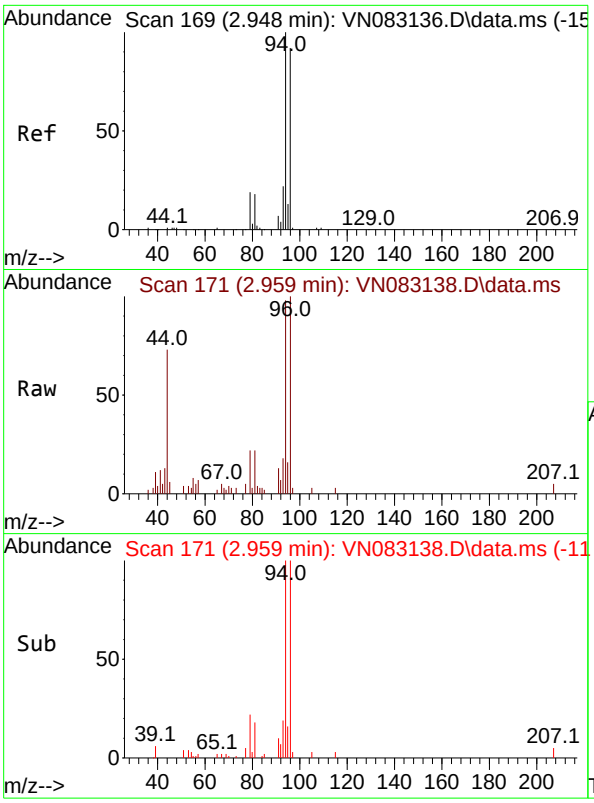


#4
Vinyl Chloride
Concen: 10.328 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 62 Resp: 23461

Ion	Ratio	Lower	Upper
62	100		
64	30.8	25.0	37.6

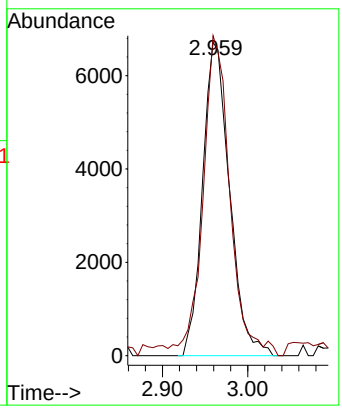




#5
Bromomethane
Concen: 10.488 ug/l
RT: 2.959 min Scan# 1
Delta R.T. 0.012 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 94 Resp: 1478

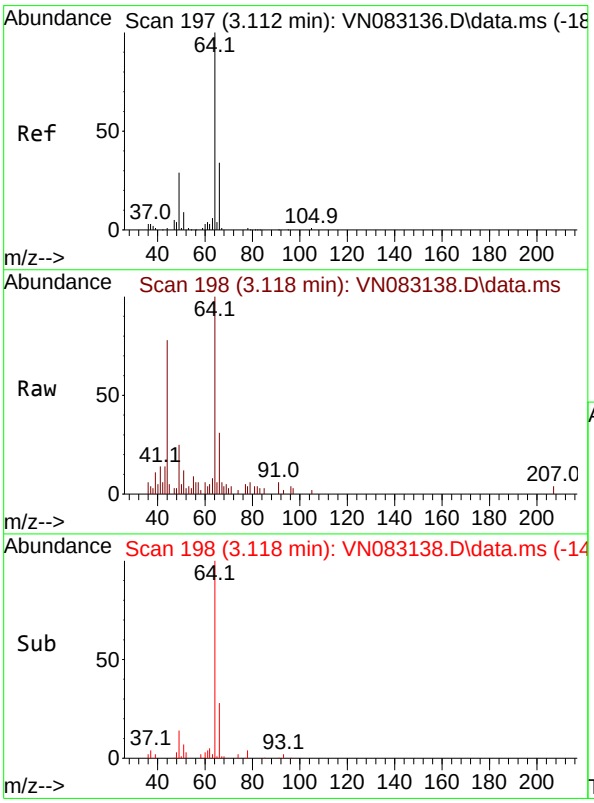
Ion	Ratio	Lower	Upper
94	100		
96	102.2	78.0	117.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

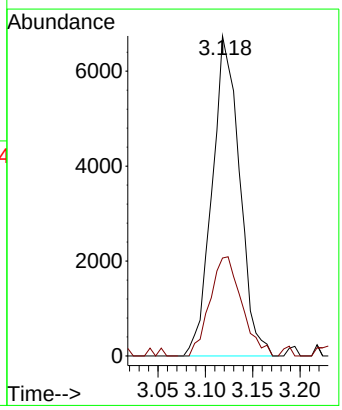
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

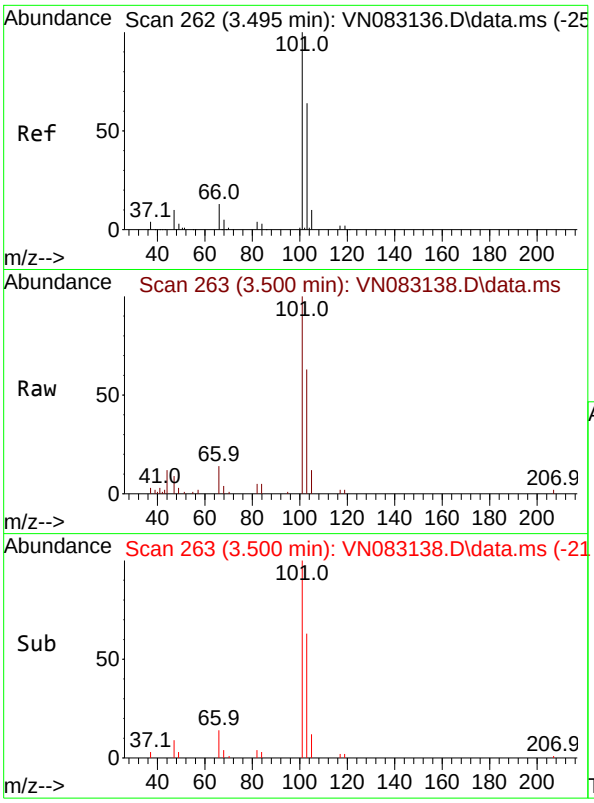


#6
Chloroethane
Concen: 9.581 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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# 2
Delta R.T. 0.005 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

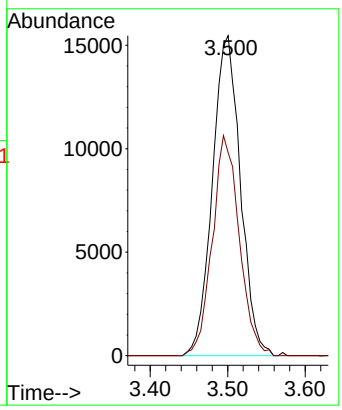
Tgt Ion:101 Resp: 3886

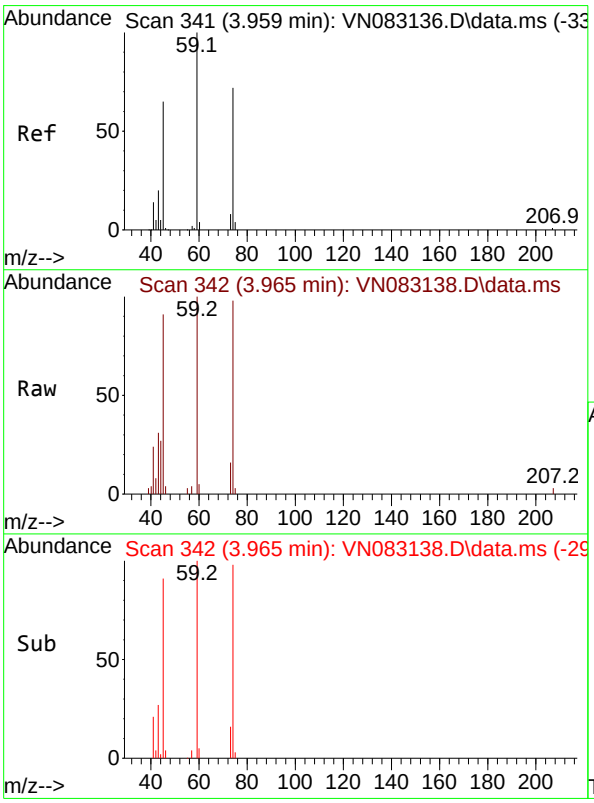
Ion	Ratio	Lower	Upper
101	100		
103	63.5	52.7	79.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

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

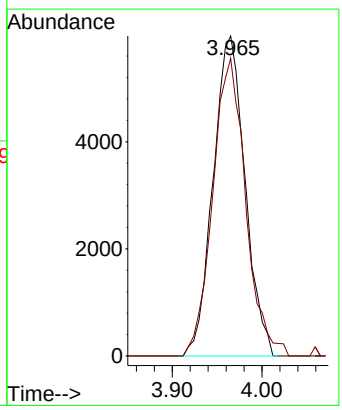


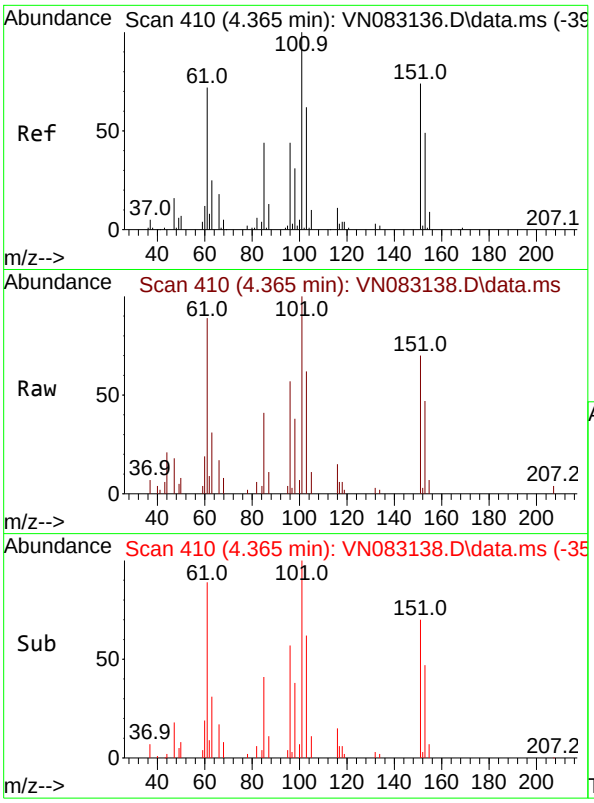


#8
Diethyl Ether
Concen: 10.571 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 74 Resp: 14761

Ion	Ratio	Lower	Upper
74	100		
45	95.9	55.5	166.3

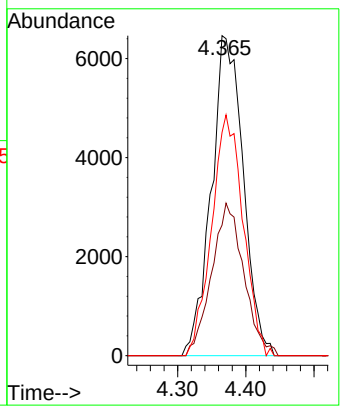




#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.189 ug/l
RT: 4.365 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:101 Resp: 2108

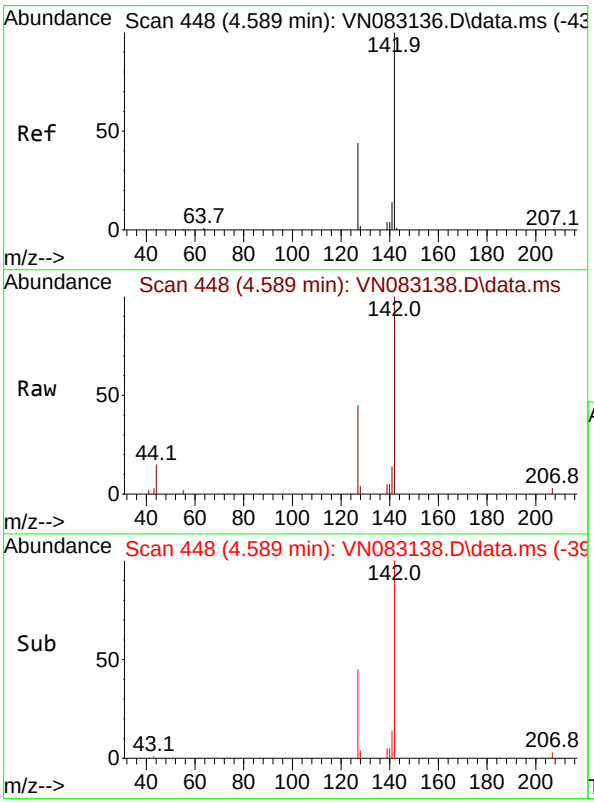
Ion	Ratio	Lower	Upper
101	100		
85	48.0	38.3	57.5
151	74.1	59.3	88.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

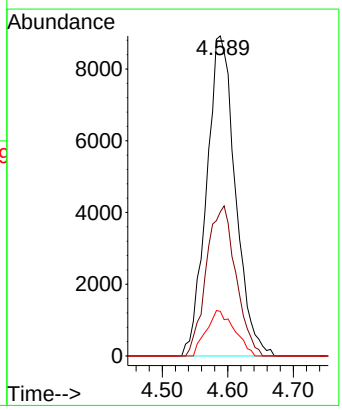
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

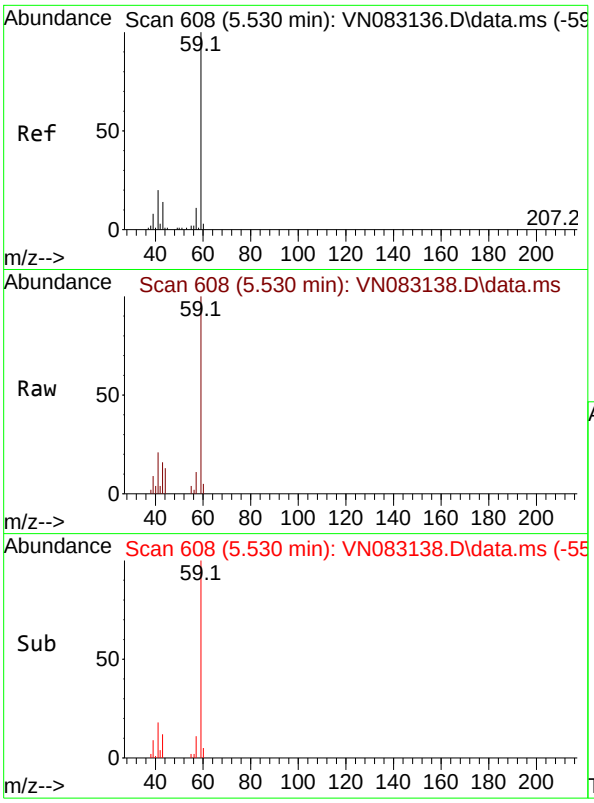


#10
Methyl Iodide
Concen: 10.005 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:142 Resp: 27229

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

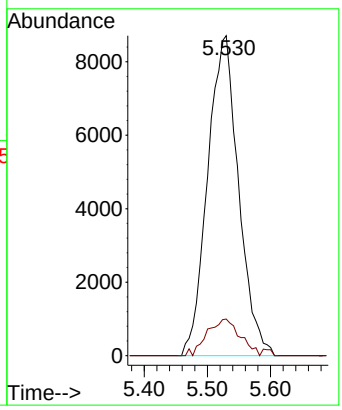




#11
Tert butyl alcohol
Concen: 52.299 ug/l
RT: 5.530 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 59 Resp: 2966

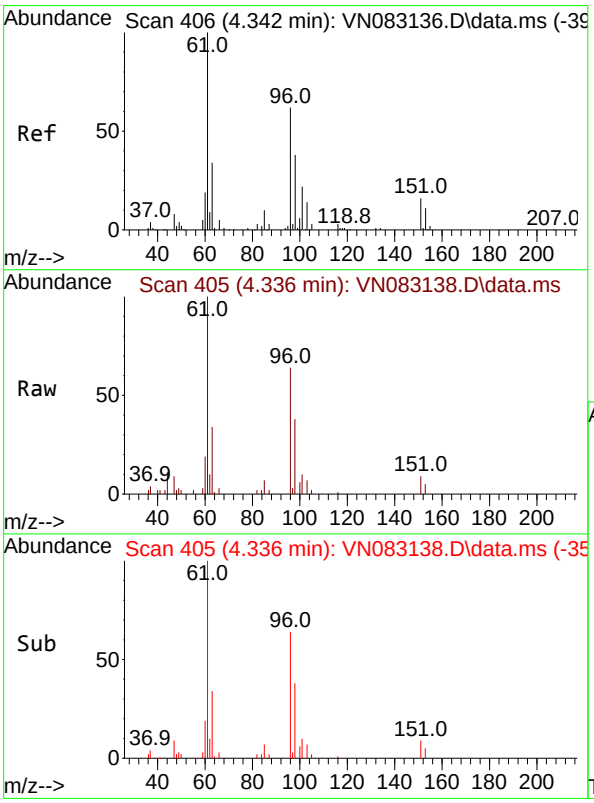
Ion	Ratio	Lower	Upper
59	100		
57	12.1	8.9	13.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

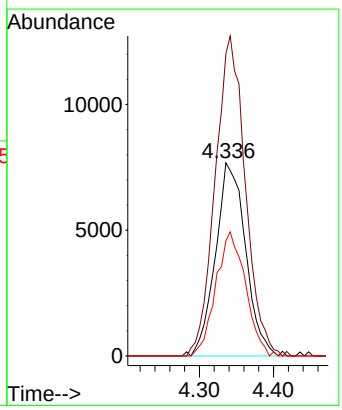
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

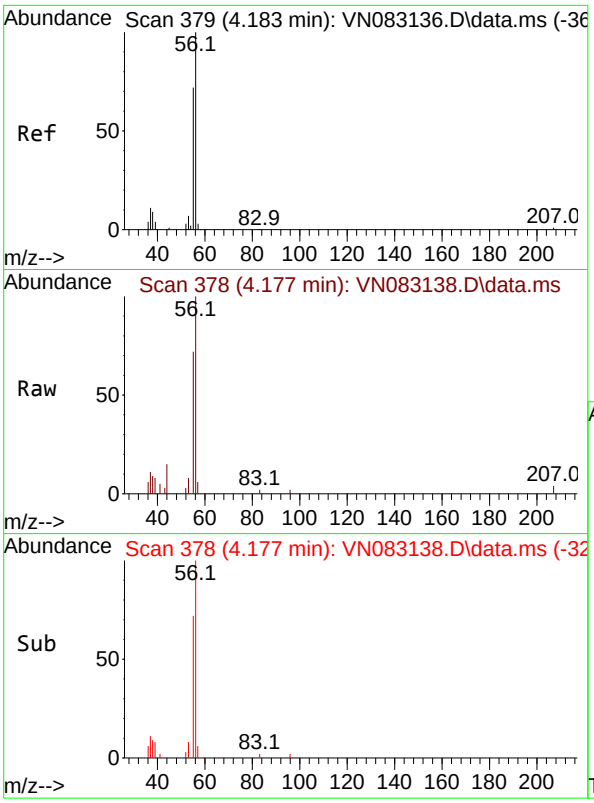


#12
1,1-Dichloroethene
Concen: 10.177 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

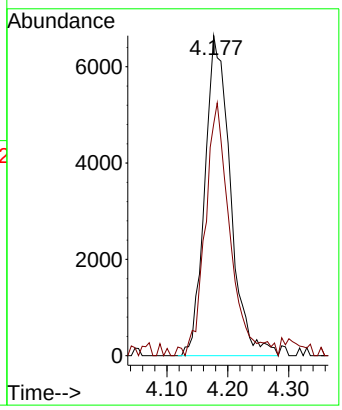




#13
Acrolein
Concen: 52.469 ug/l
RT: 4.177 min Scan# 3
Delta R.T. -0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 56 Resp: 1939

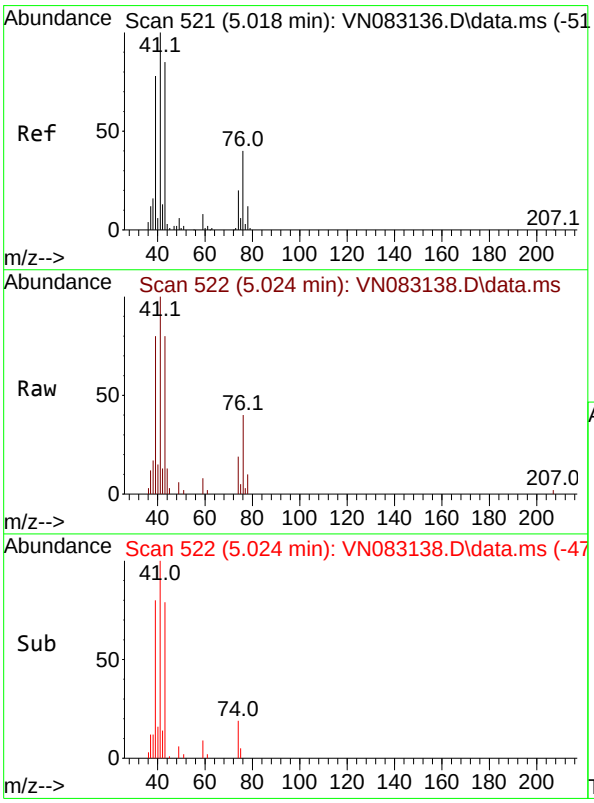
Ion	Ratio	Lower	Upper
56	100		
55	77.0	56.4	84.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

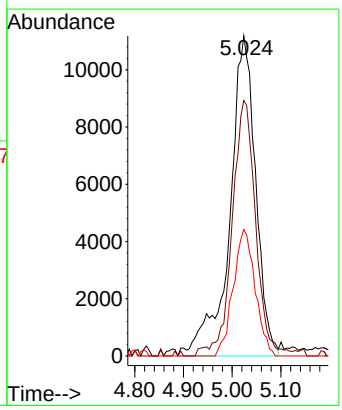
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

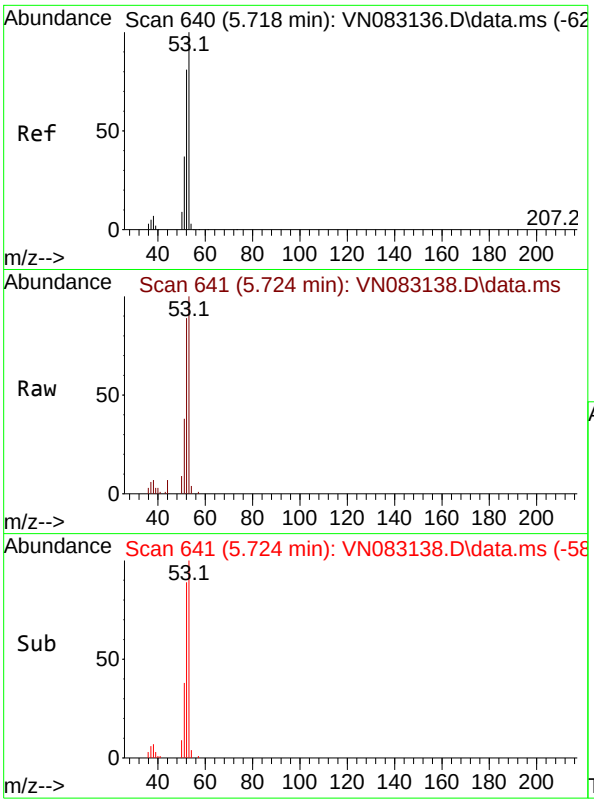


#14
Allyl chloride
Concen: 10.343 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

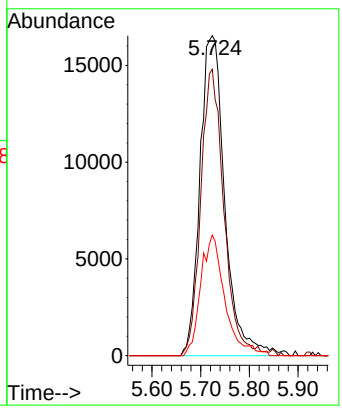




#15
Acrylonitrile
Concen: 50.248 ug/l
RT: 5.724 min Scan# 64
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 53 Resp: 5861

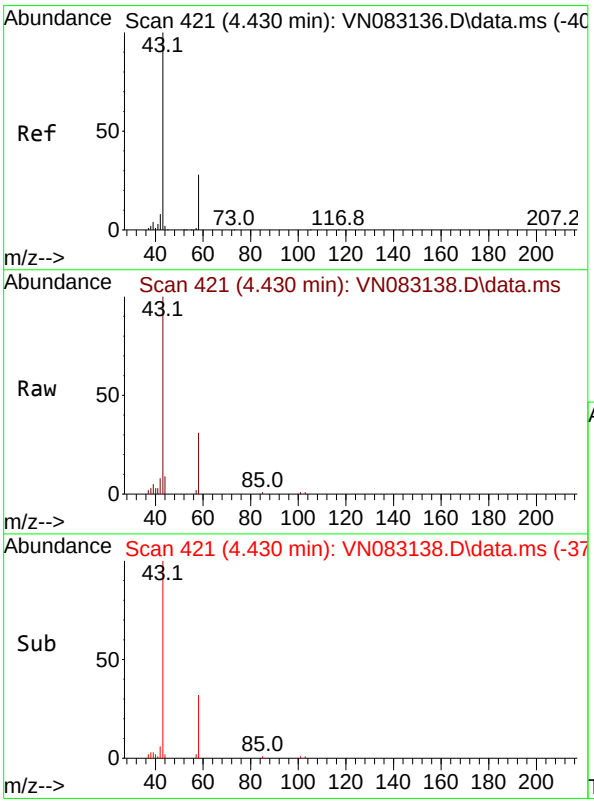
Ion	Ratio	Lower	Upper
53	100		
52	83.1	66.6	100.0
51	36.6	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

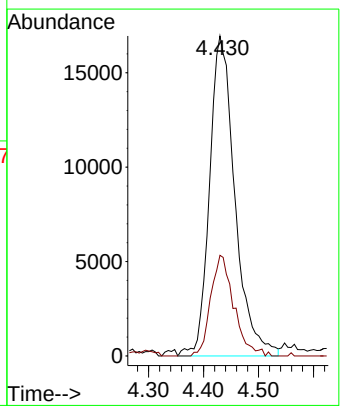
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

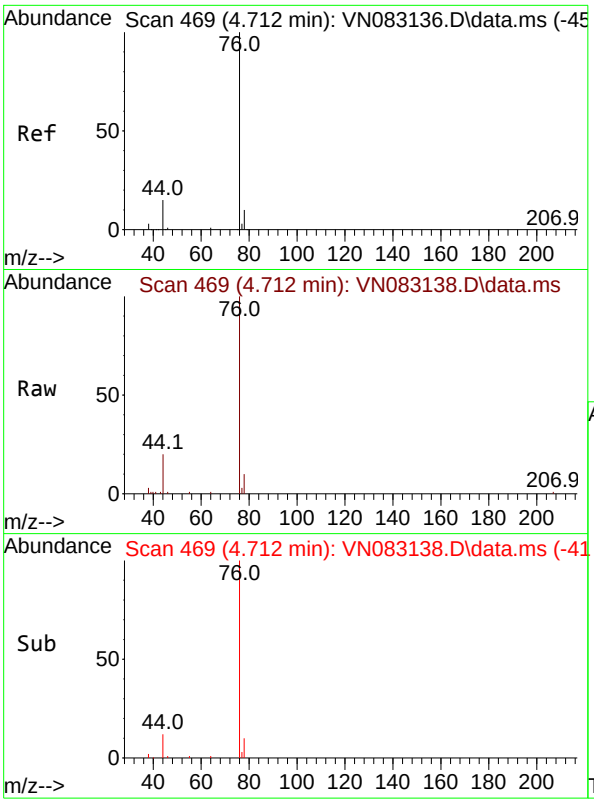


#16
Acetone
Concen: 50.933 ug/l
RT: 4.430 min Scan# 421
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 43 Resp: 54397

Ion	Ratio	Lower	Upper
43	100		
58	31.4	21.8	32.6

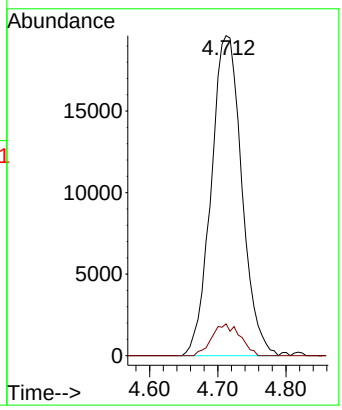




#17
Carbon Disulfide
Concen: 9.860 ug/l
RT: 4.712 min Scan# 4(
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 76 Resp: 6132

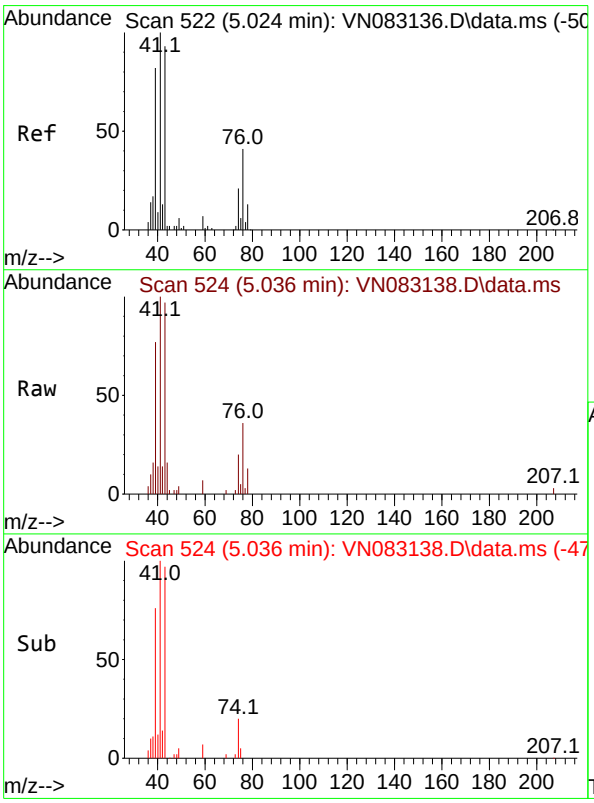
Ion	Ratio	Lower	Upper
76	100		
78	9.9	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

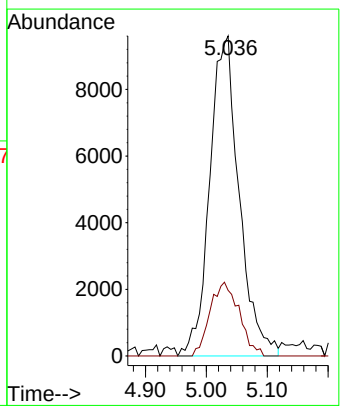
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

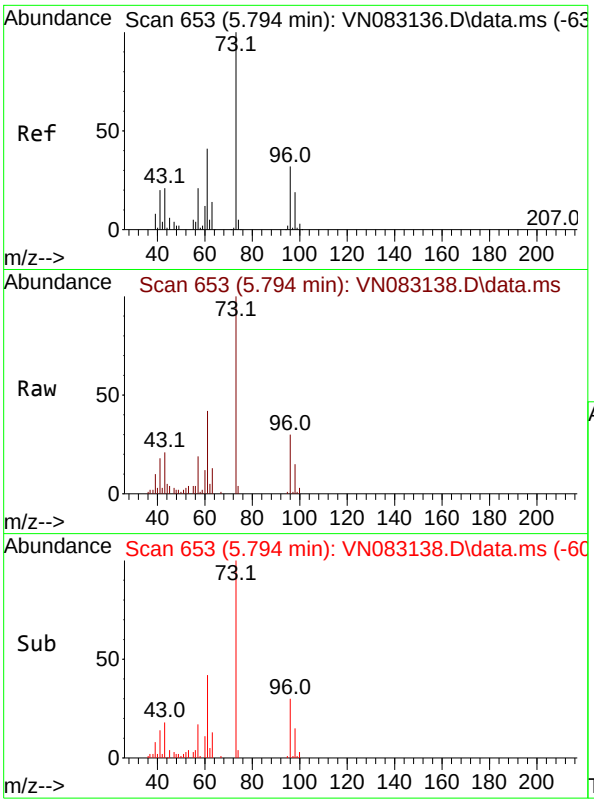


#18
Methyl Acetate
Concen: 10.145 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.012 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 43 Resp: 32282

Ion	Ratio	Lower	Upper
43	100		
74	22.8	16.3	24.5

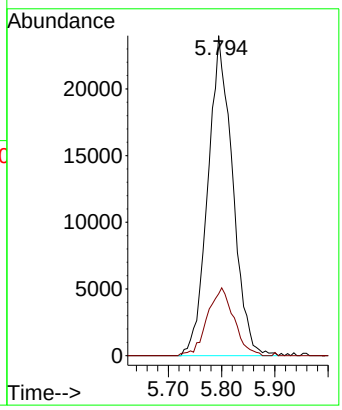




#19
Methyl tert-butyl Ether
Concen: 10.072 ug/l
RT: 5.794 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 73 Resp: 7727

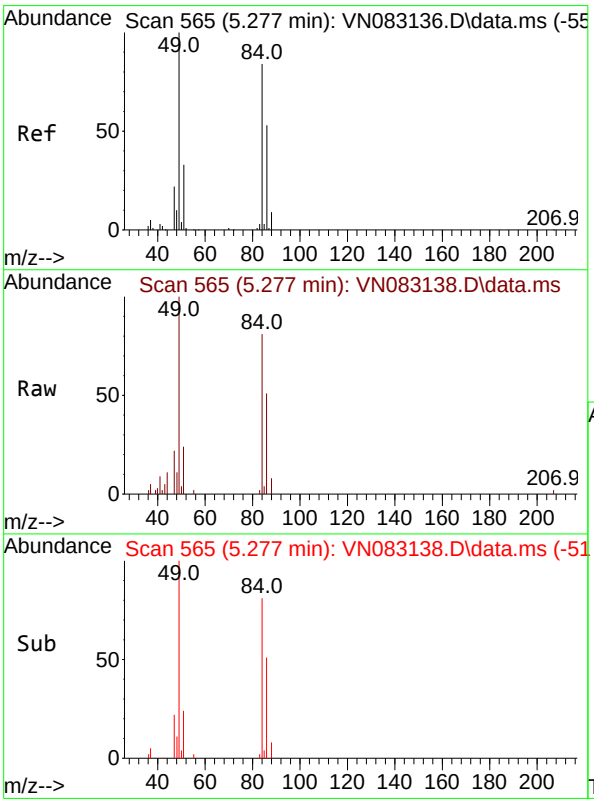
Ion	Ratio	Lower	Upper
73	100		
57	19.3	17.9	26.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

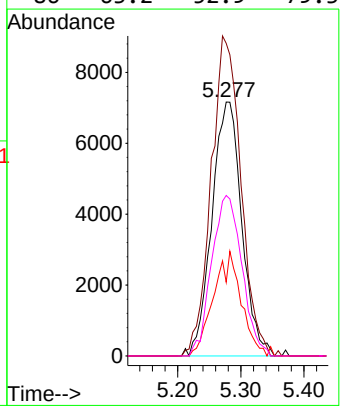
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

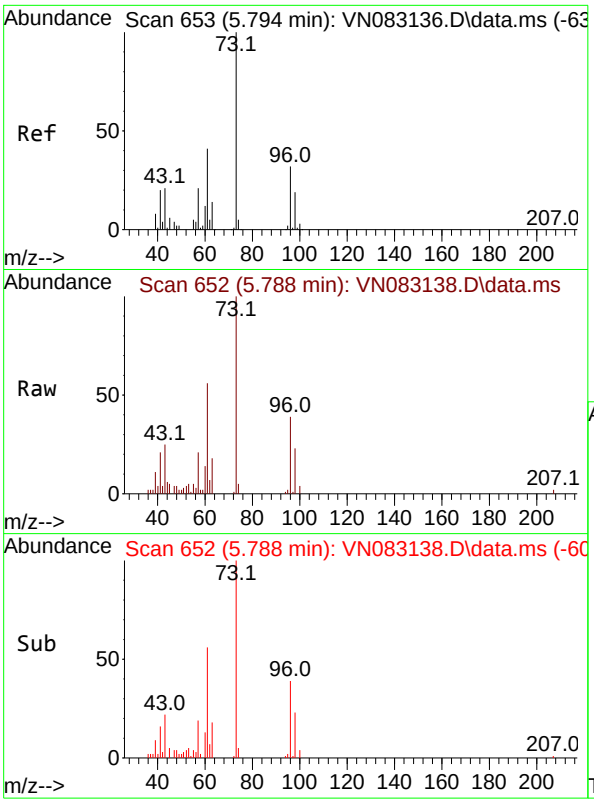


#20
Methylene Chloride
Concen: 9.582 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

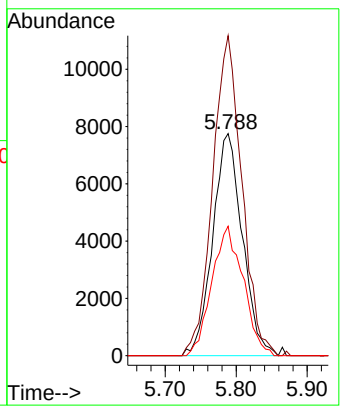




#21
trans-1,2-Dichloroethene
Concen: 10.229 ug/l
RT: 5.788 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 96 Resp: 2247

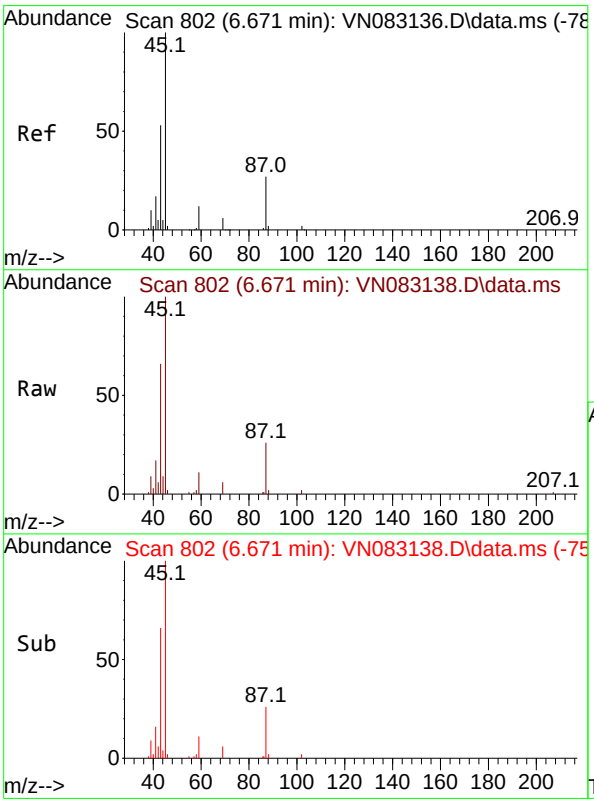
Ion	Ratio	Lower	Upper
96	100		
61	144.0	123.4	185.2
98	58.3	49.3	73.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

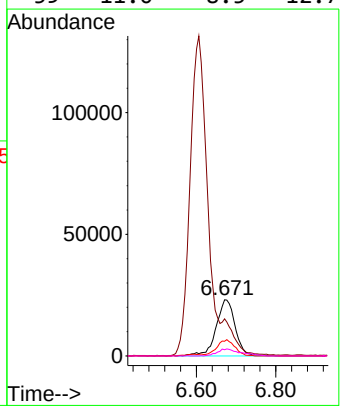
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

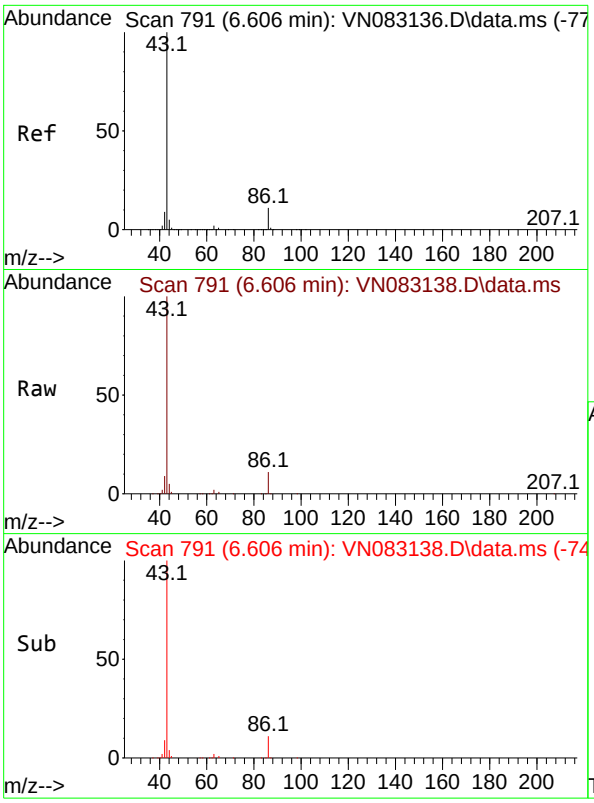


#22
Diisopropyl ether
Concen: 10.204 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

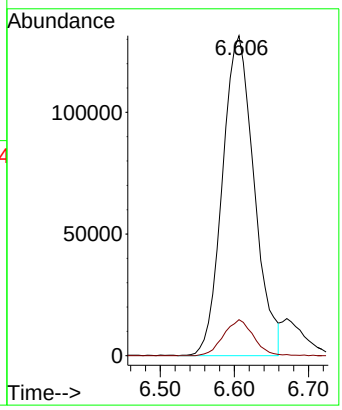




#23
Vinyl Acetate
Concen: 50.550 ug/l
RT: 6.606 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 43 Resp: 39115

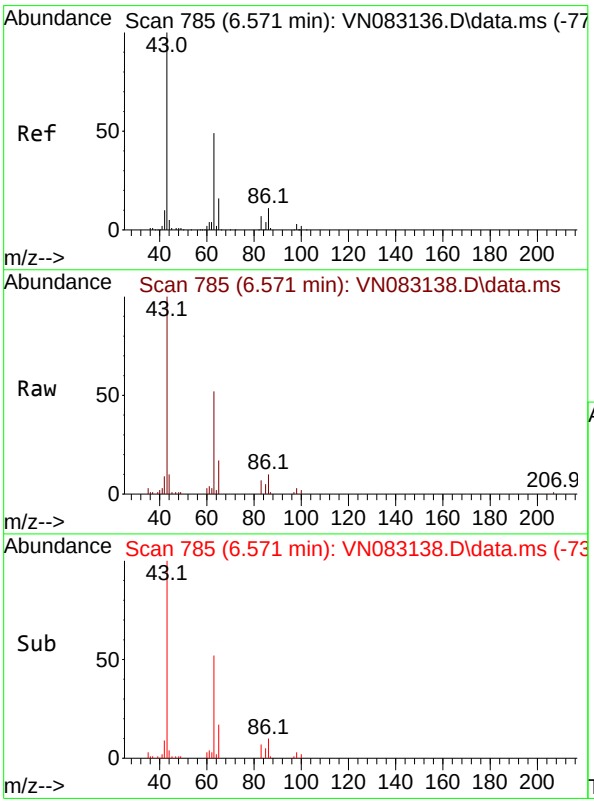
Ion	Ratio	Lower	Upper
43	100		
86	11.2	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

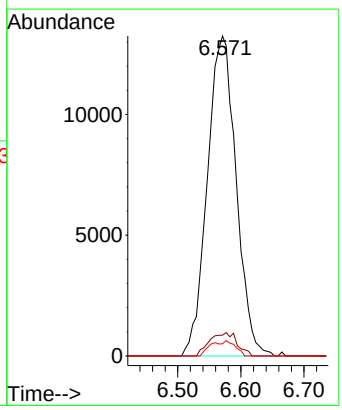
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

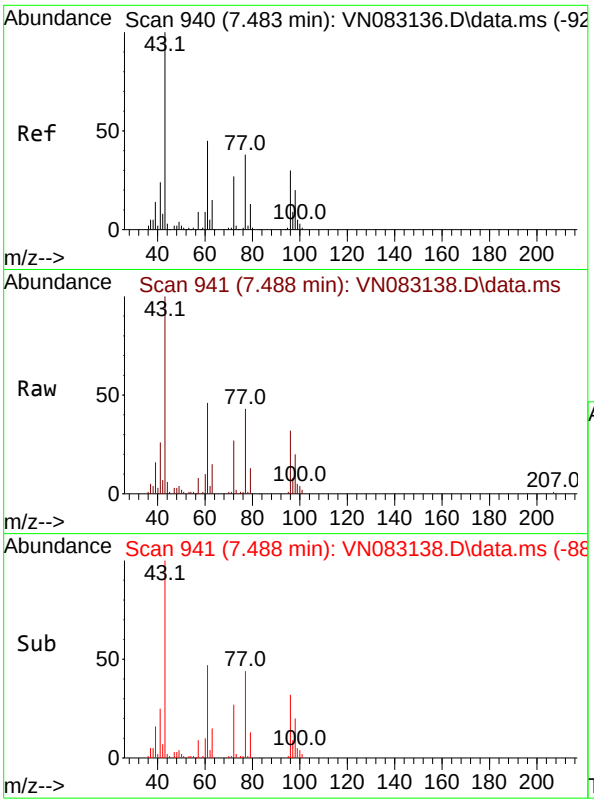


#24
1,1-Dichloroethane
Concen: 10.213 ug/l
RT: 6.571 min Scan# 785
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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# 94
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

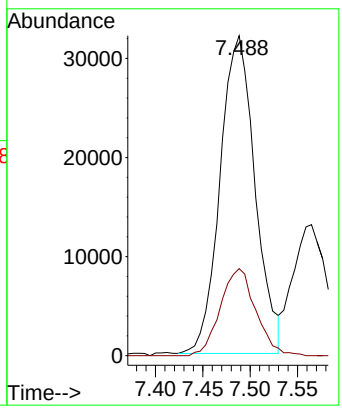
Tgt Ion: 43 Resp: 8245

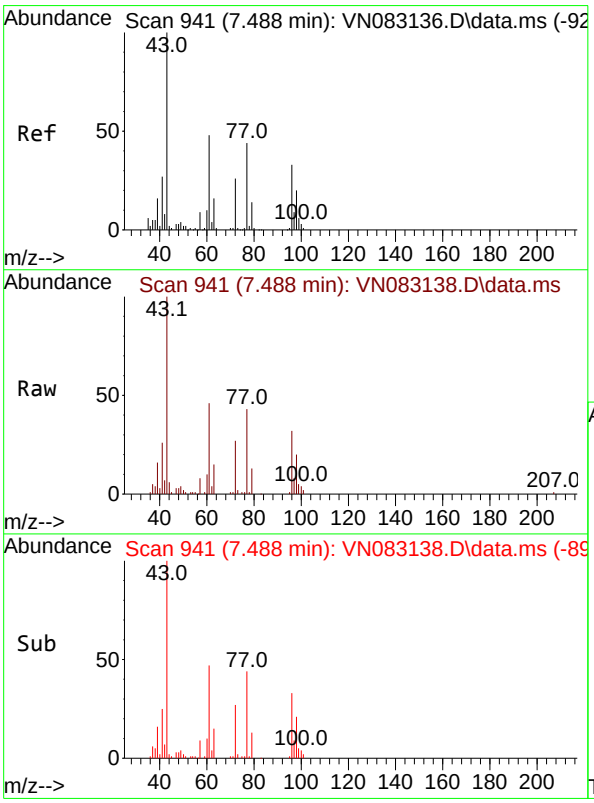
Ion	Ratio	Lower	Upper
43	100		
72	27.4	18.2	27.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

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

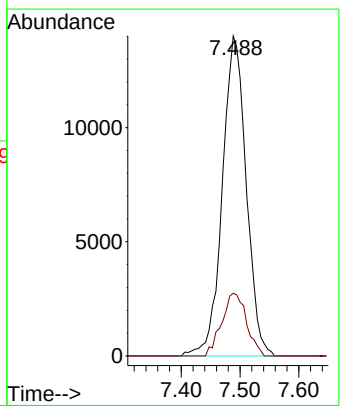


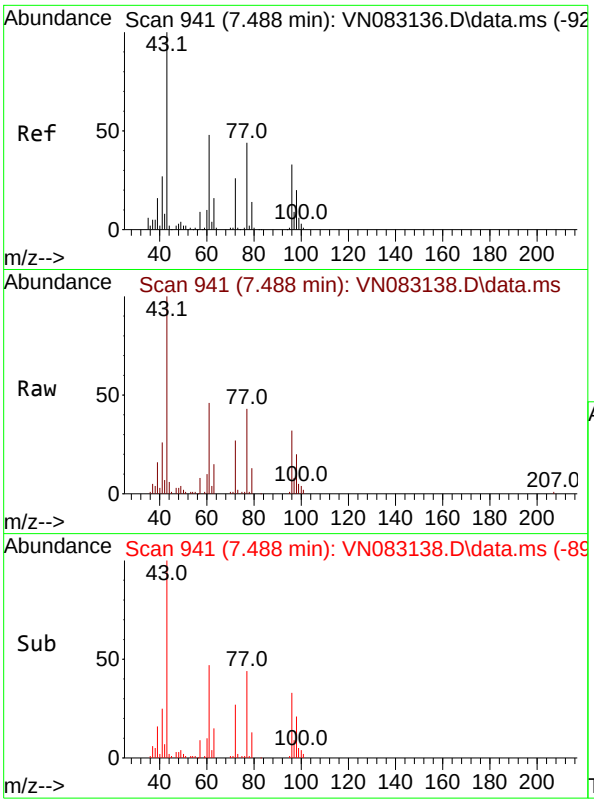


#26
2,2-Dichloropropane
Concen: 10.351 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 77 Resp: 39561

Ion	Ratio	Lower	Upper
77	100		
97	20.2	10.3	30.9

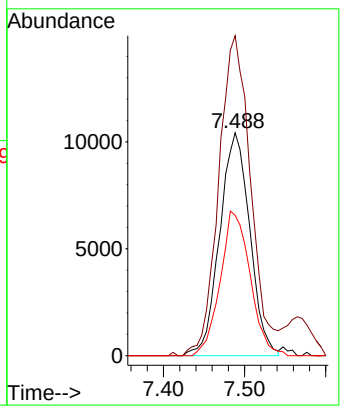




#27
cis-1,2-Dichloroethene
Concen: 10.148 ug/l
RT: 7.488 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 96 Resp: 2690

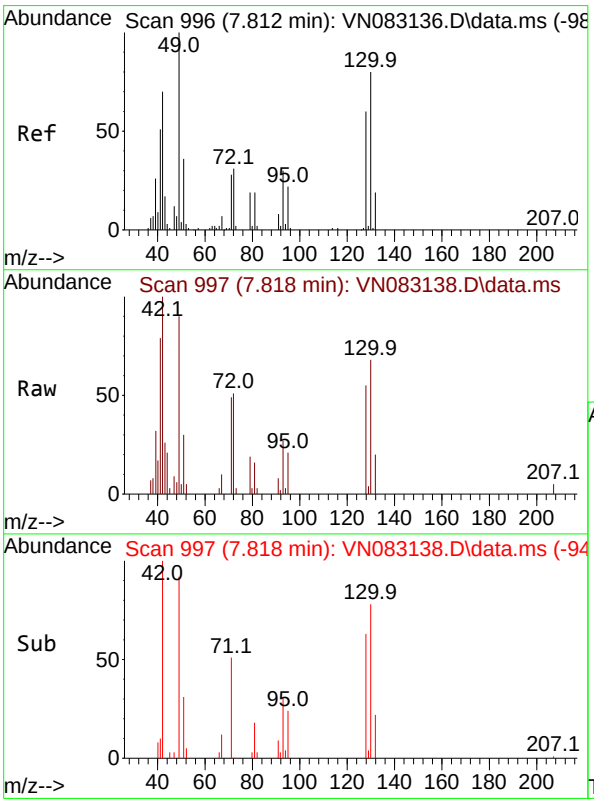
Ion	Ratio	Lower	Upper
96	100		
61	152.1	0.0	329.6
98	64.4	0.0	128.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

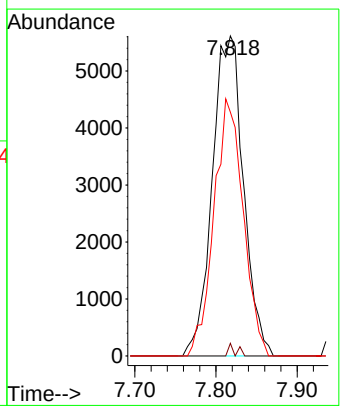
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

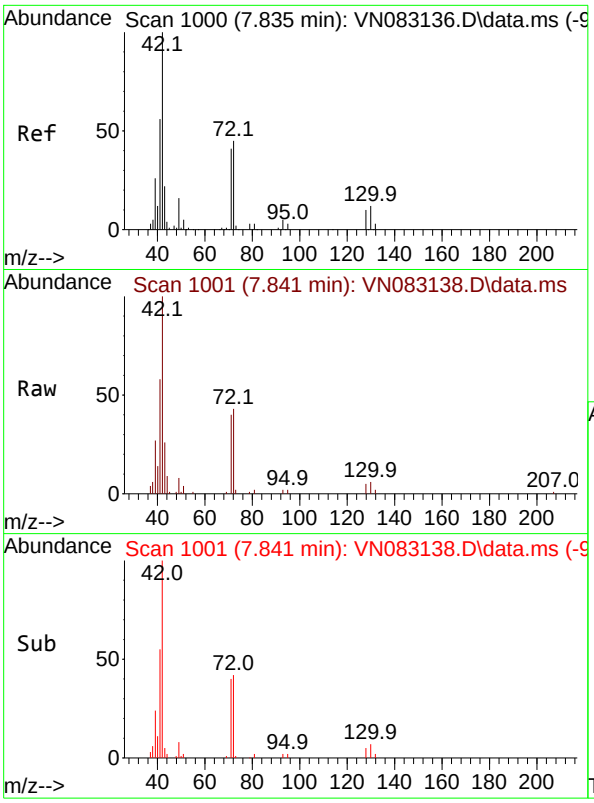


#28
Bromochloromethane
Concen: 8.916 ug/l
RT: 7.818 min Scan# 997
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

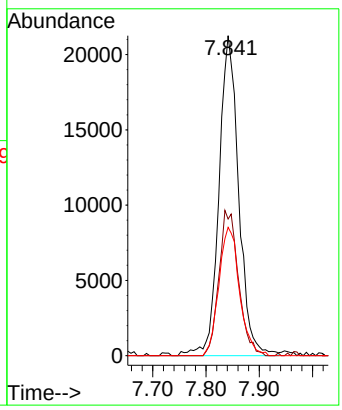




#29
Tetrahydrofuran
Concen: 51.708 ug/l
RT: 7.841 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 42 Resp: 5481

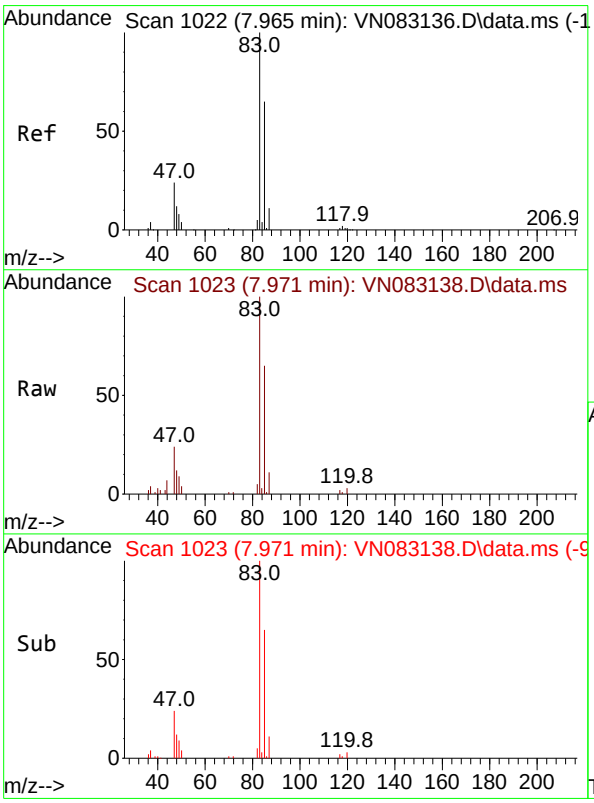
Ion	Ratio	Lower	Upper
42	100		
72	44.9	30.0	45.0
71	41.8	28.3	42.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

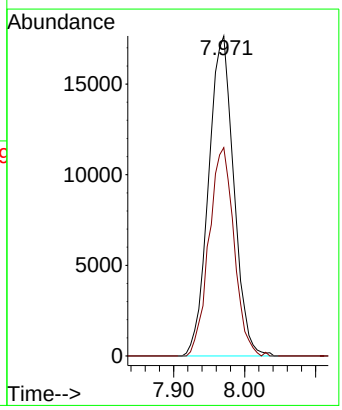
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

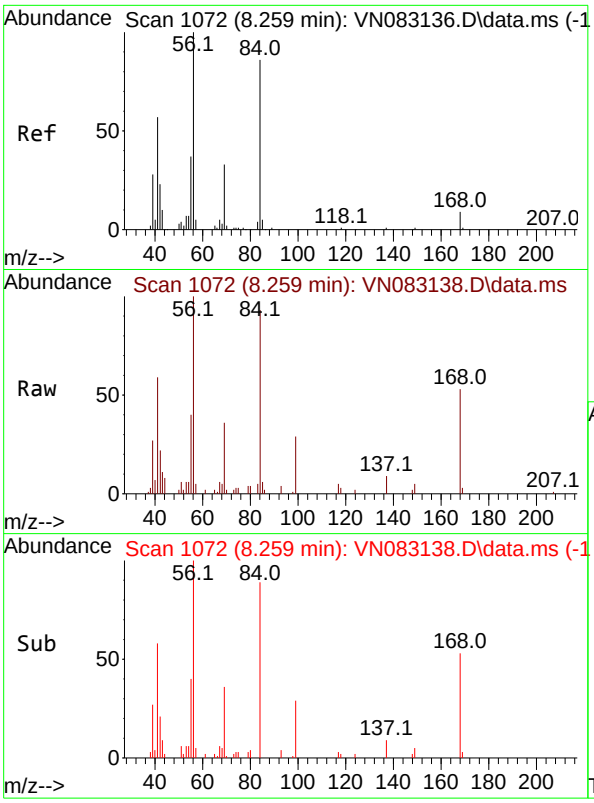


#30
Chloroform
Concen: 10.155 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 83 Resp: 43421

Ion	Ratio	Lower	Upper
83	100		
85	65.1	50.9	76.3

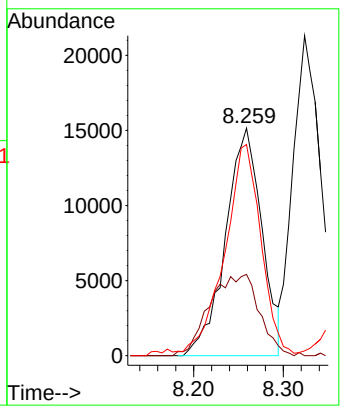




#31
Cyclohexane
Concen: 10.523 ug/l
RT: 8.259 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 56 Resp: 4256

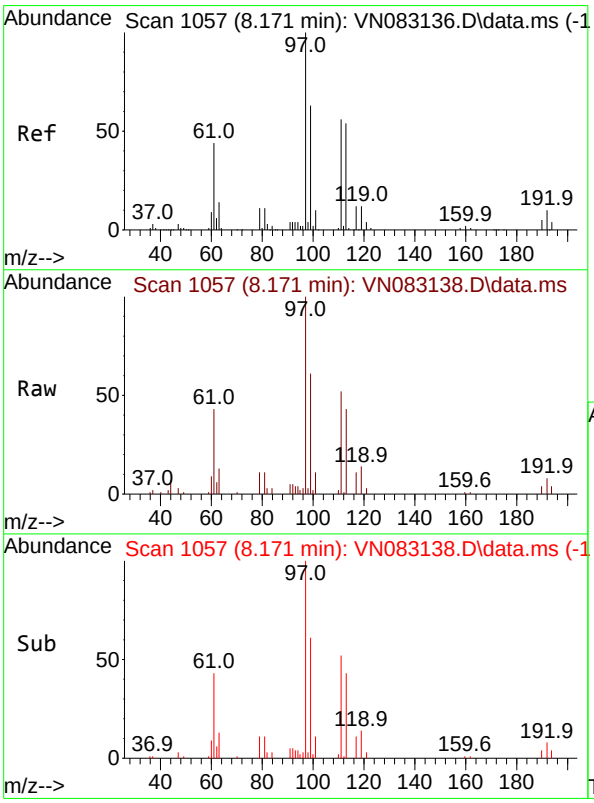
Ion	Ratio	Lower	Upper
56	100		
69	34.0	24.5	36.7
84	90.8	66.0	99.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

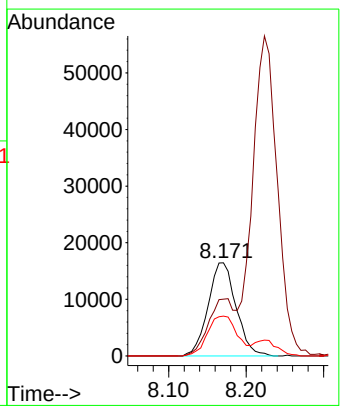
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

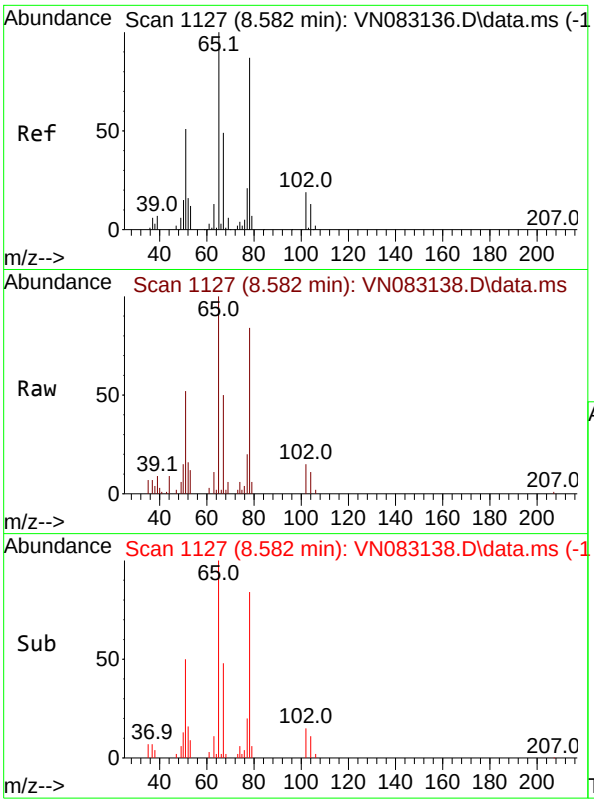


#32
1,1,1-Trichloroethane
Concen: 10.191 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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# 11
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

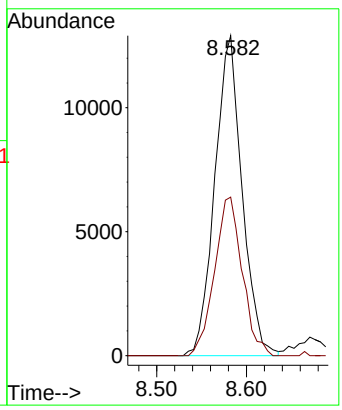
Tgt Ion: 65 Resp: 2722

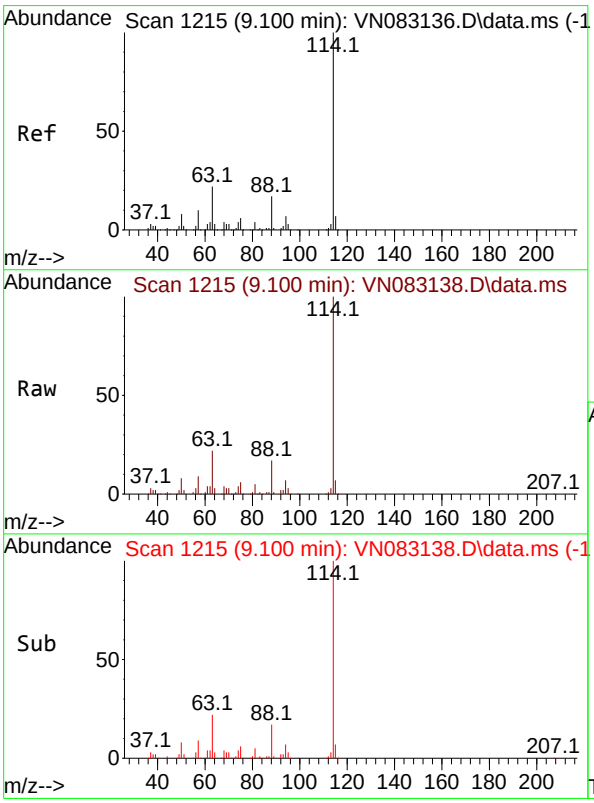
Ion	Ratio	Lower	Upper
65	100		
67	50.3	0.0	104.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

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

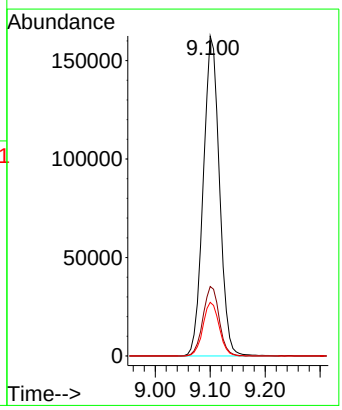


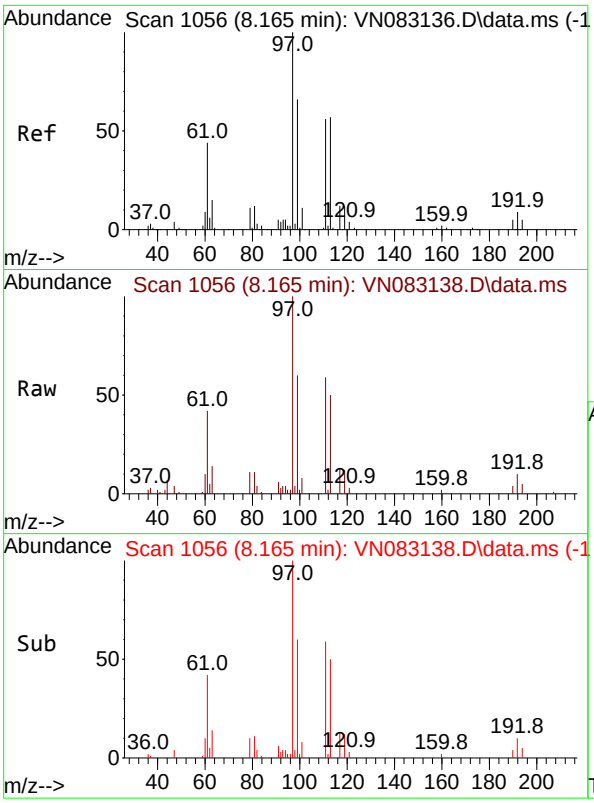


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

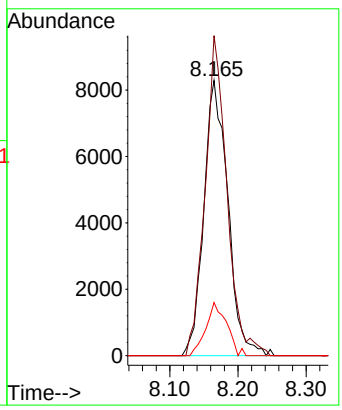




#35
Dibromofluoromethane
Concen: 9.832 ug/l
RT: 8.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:113 Resp: 2038

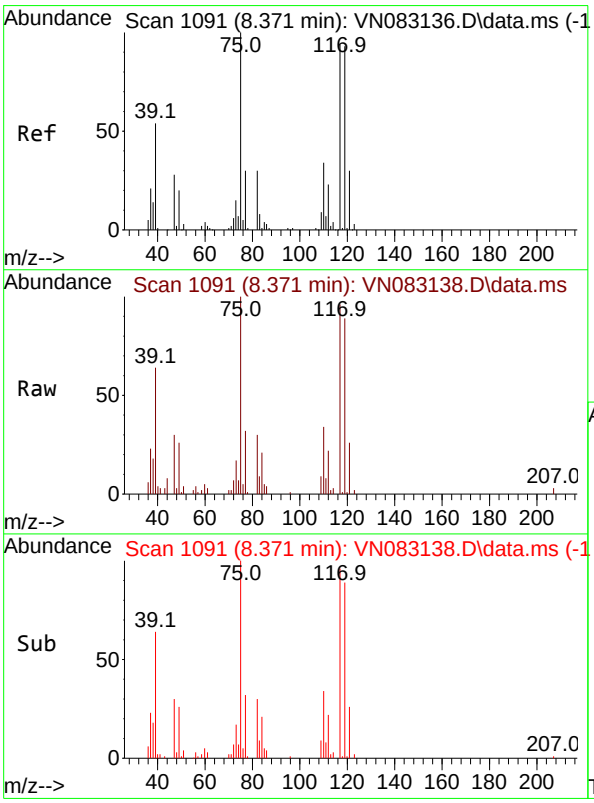
Ion	Ratio	Lower	Upper
113	100		
111	105.9	82.4	123.6
192	16.7	14.9	22.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

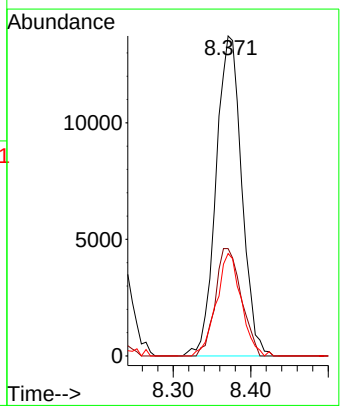
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

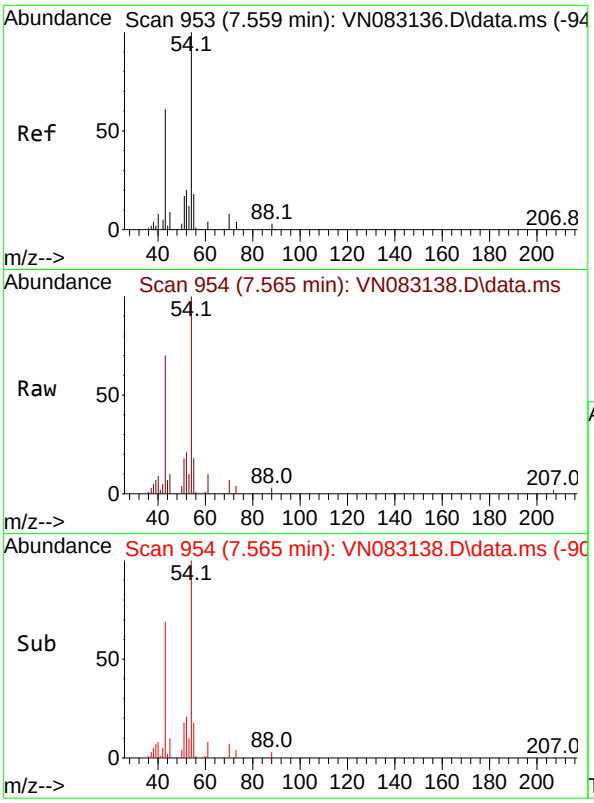


#36
1,1-Dichloropropene
Concen: 10.103 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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# 9
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

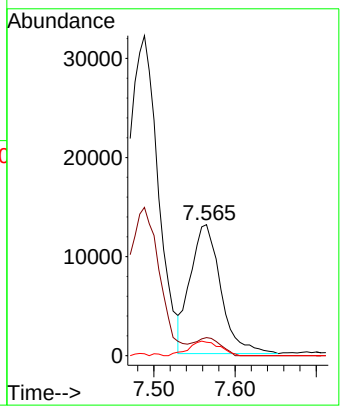
Tgt Ion: 43 Resp: 3400

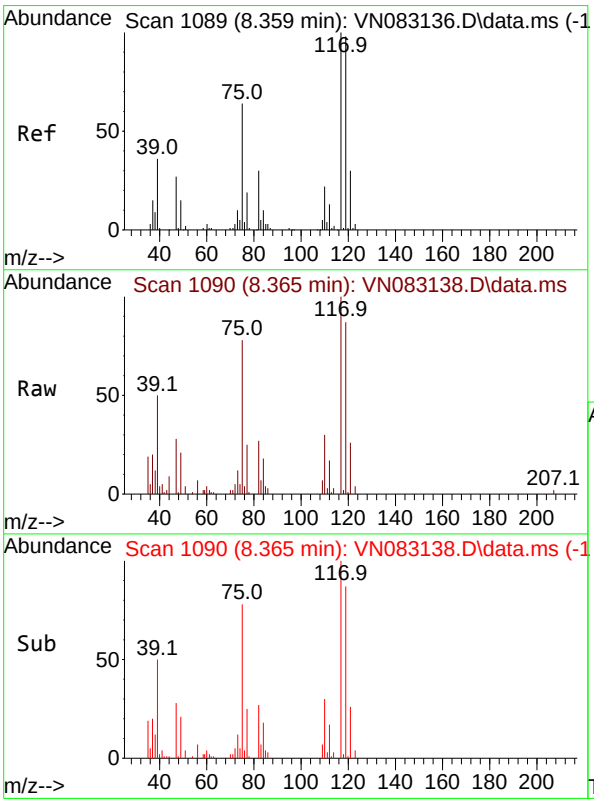
Ion	Ratio	Lower	Upper
43	100		
61	12.0	9.3	13.9
70	11.4	7.0	10.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

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

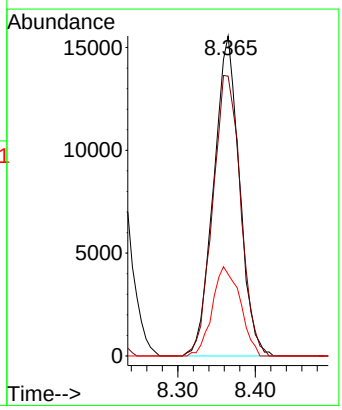


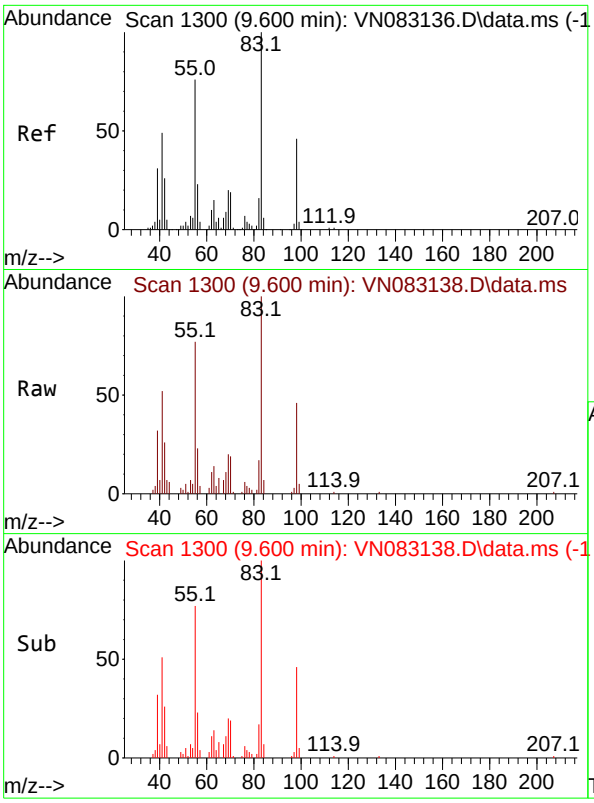


#38
Carbon Tetrachloride
Concen: 10.179 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

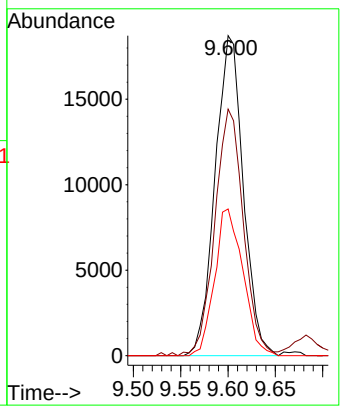
Tgt Ion: 83 Resp: 3873

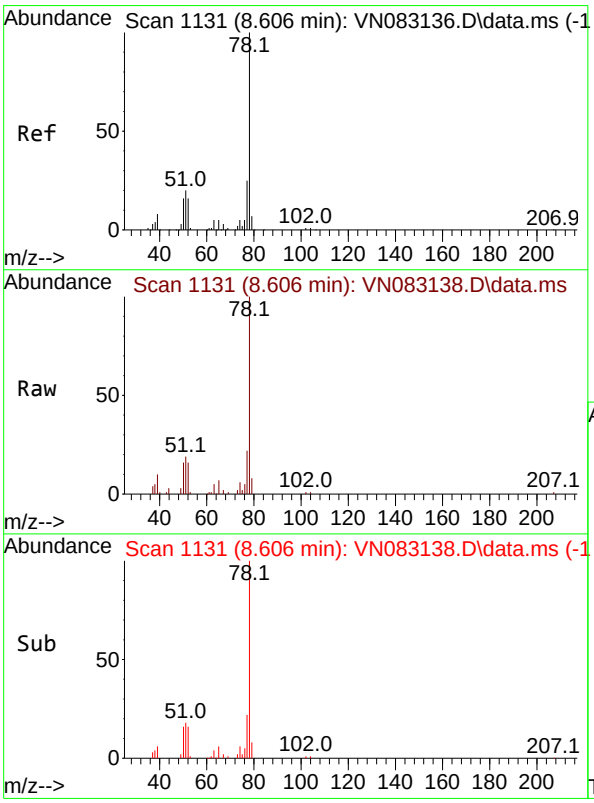
Ion	Ratio	Lower	Upper
83	100		
55	77.1	66.4	99.6
98	45.9	40.7	61.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

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

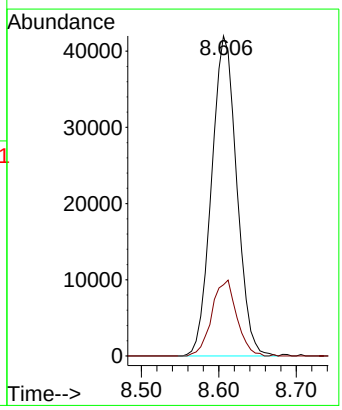


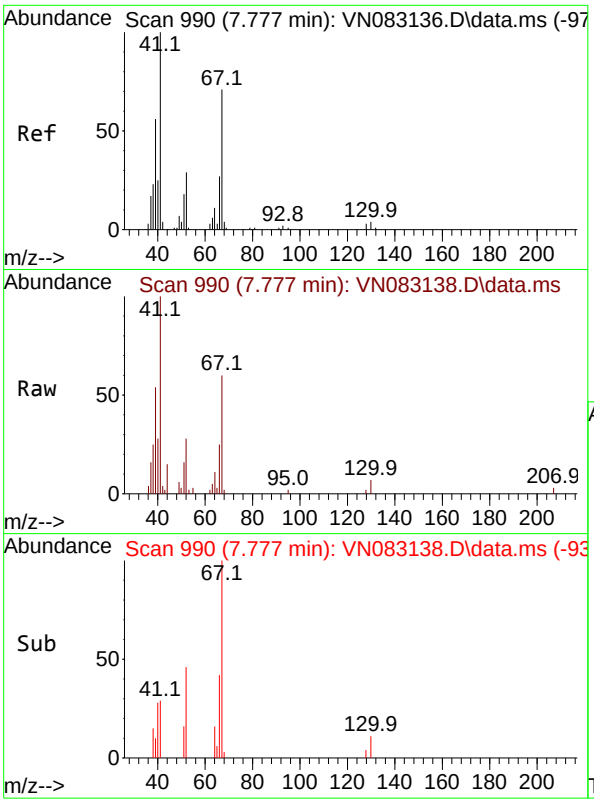


#40
Benzene
Concen: 10.157 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 78 Resp: 94885

Ion	Ratio	Lower	Upper
78	100		
77	22.2	19.0	28.4

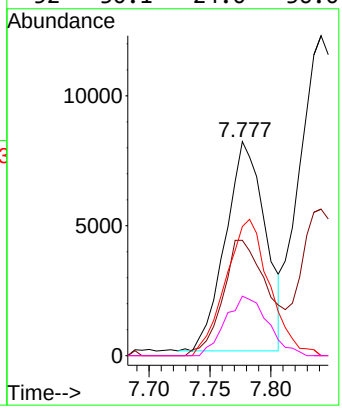




#41
Methacrylonitrile
Concen: 9.213 ug/l
RT: 7.777 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 41 Resp: 1839

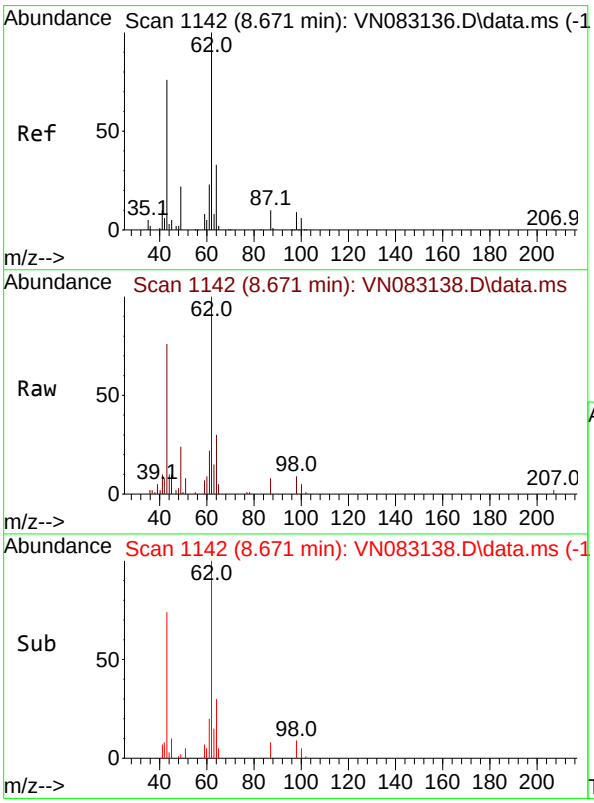
Ion	Ratio	Lower	Upper
41	100		
39	62.6	45.5	68.3
67	71.3	50.5	75.7
52	30.1	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

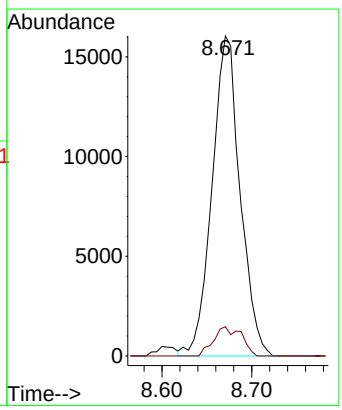
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

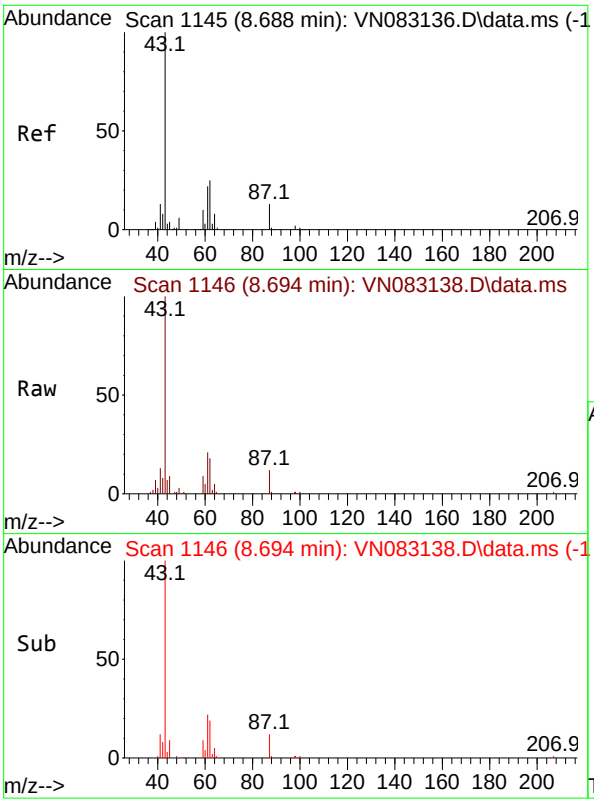


#42
1,2-Dichloroethane
Concen: 10.234 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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# 1
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

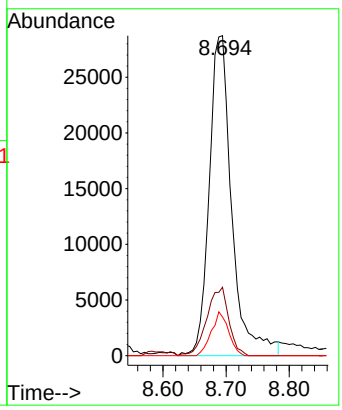
Tgt Ion: 43 Resp: 7142

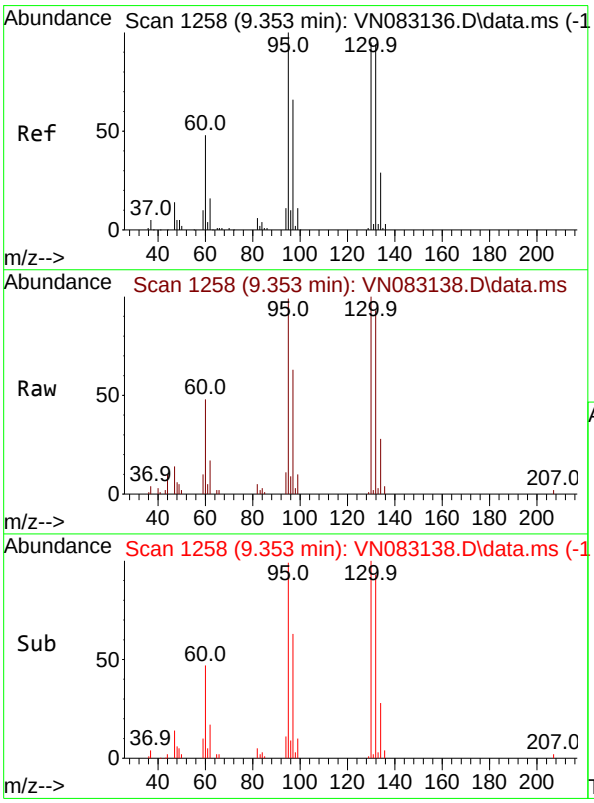
Ion	Ratio	Lower	Upper
43	100		
61	20.7	17.8	26.6
87	10.4	8.2	12.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

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

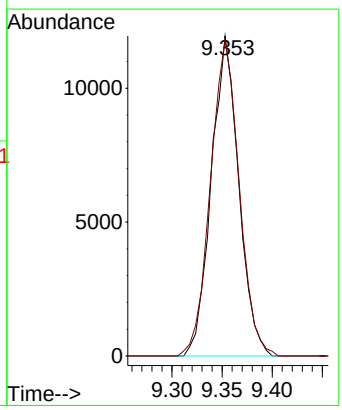


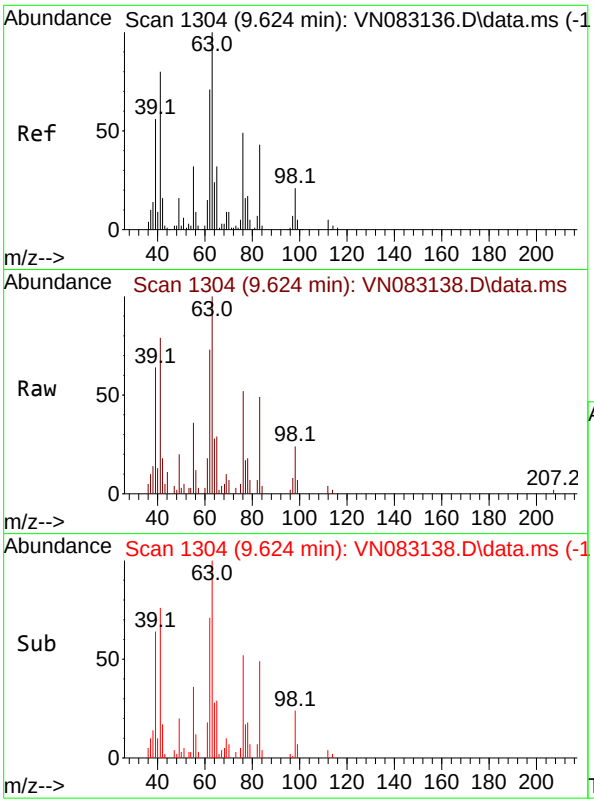


#44
Trichloroethene
Concen: 10.195 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:130 Resp: 22669

Ion	Ratio	Lower	Upper
130	100		
95	98.5	0.0	197.8

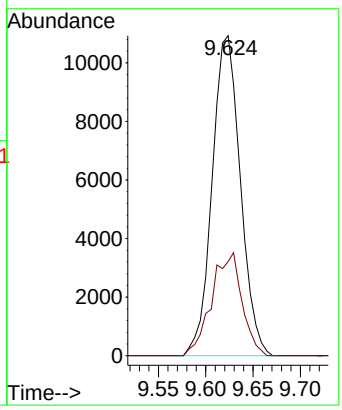




#45
1,2-Dichloropropane
Concen: 10.211 ug/l
RT: 9.624 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 63 Resp: 2264

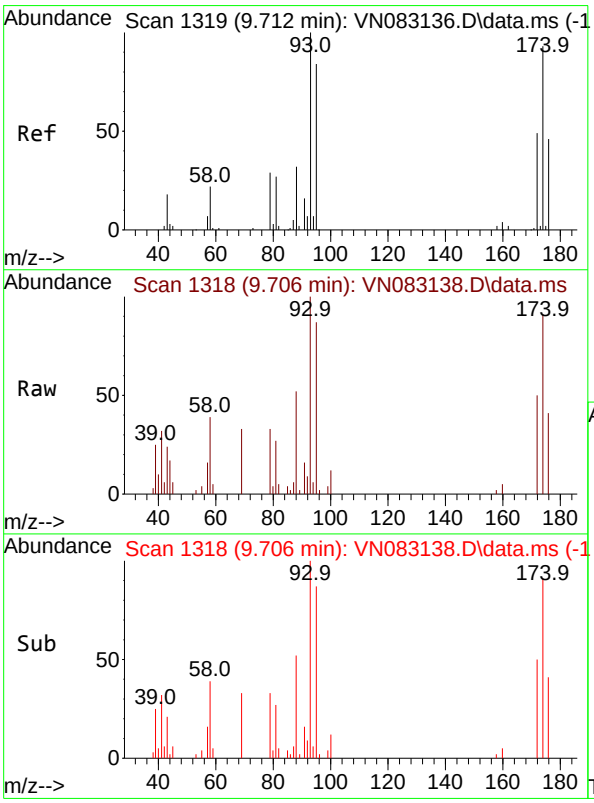
Ion	Ratio	Lower	Upper
63	100		
65	29.4	24.4	36.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

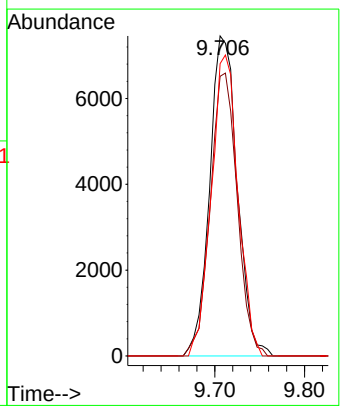
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

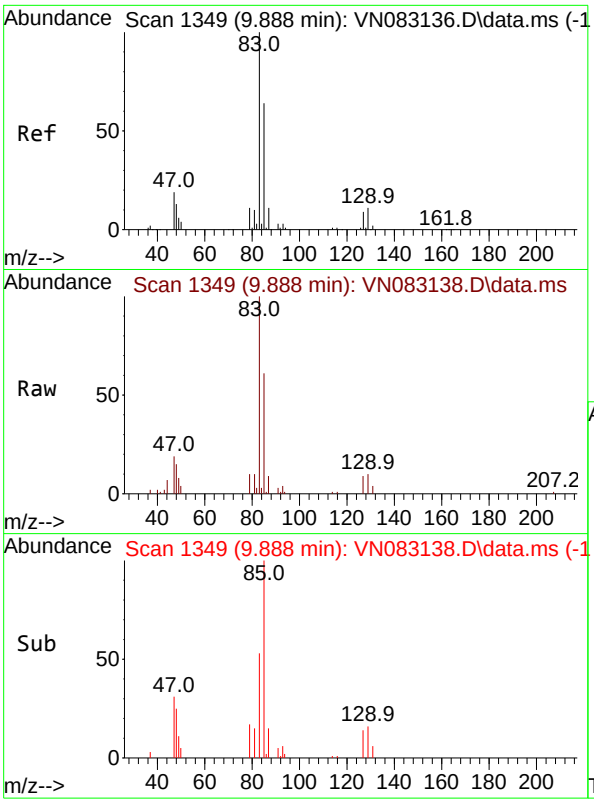


#46
Dibromomethane
Concen: 10.041 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

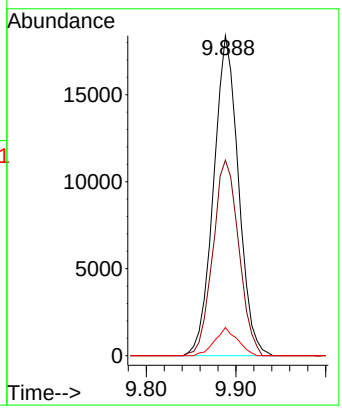




#47
Bromodichloromethane
Concen: 9.930 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 83 Resp: 3538

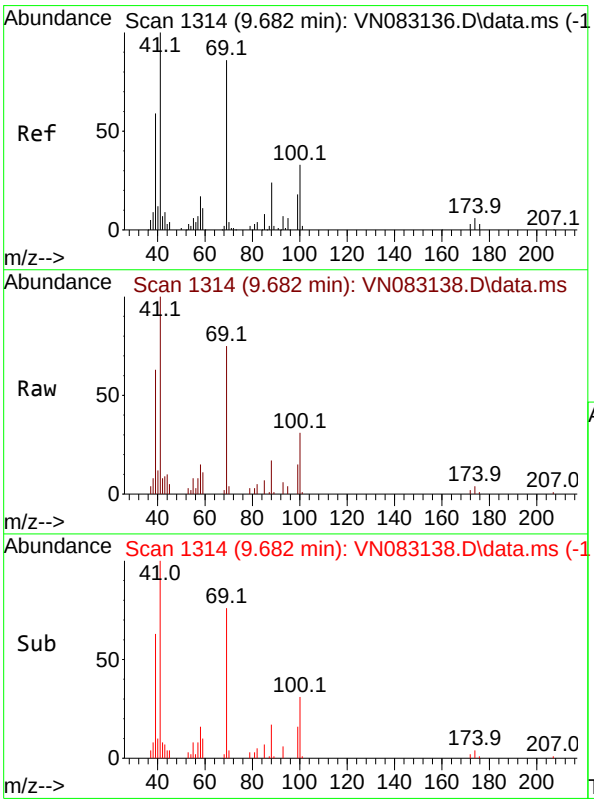
Ion	Ratio	Lower	Upper
83	100		
85	61.1	51.1	76.7
127	8.8	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

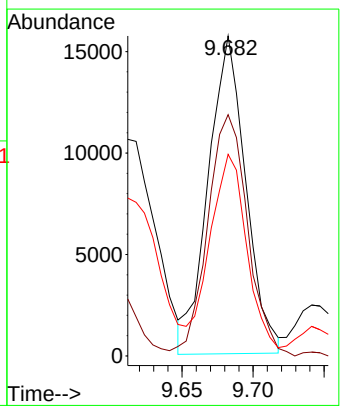
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

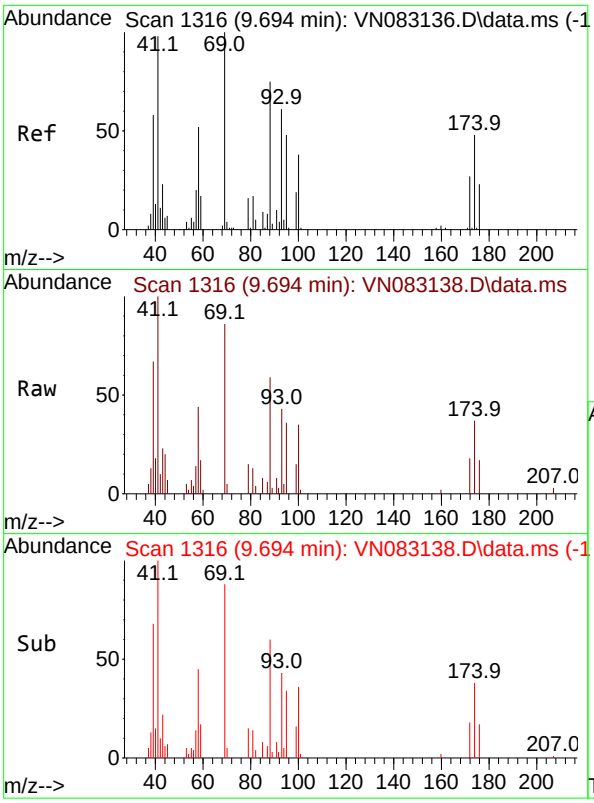


#48
Methyl methacrylate
Concen: 9.891 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

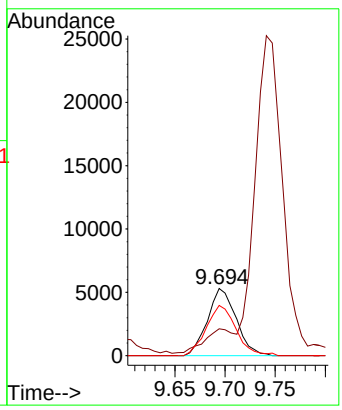
Tgt Ion: 88 Resp: 1054

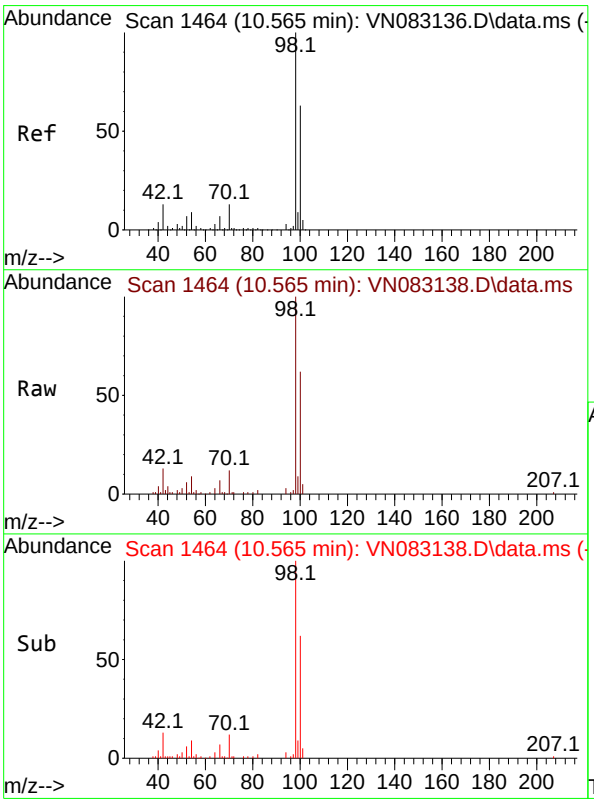
Ion	Ratio	Lower	Upper
88	100		
43	39.2	27.8	41.8
58	77.8	59.4	89.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

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

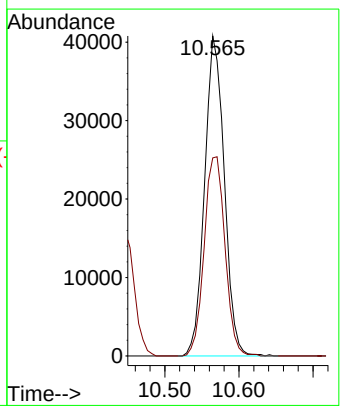


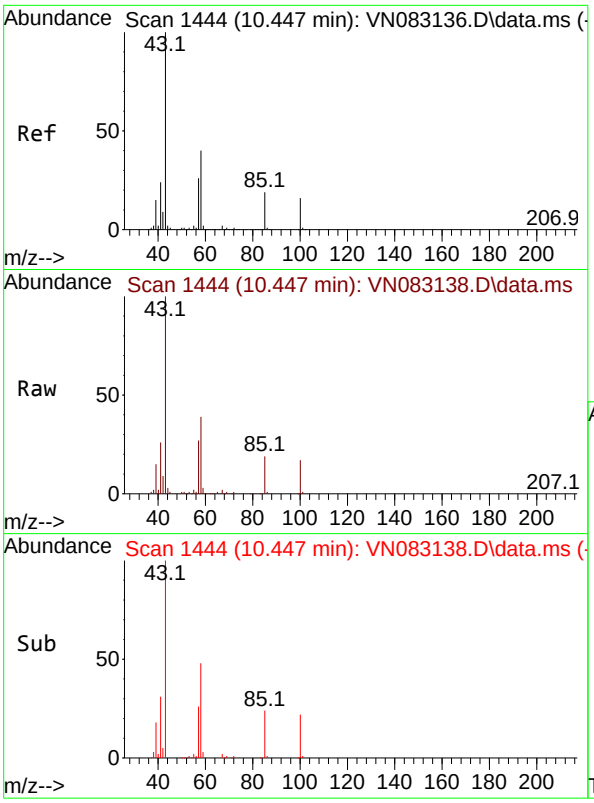


#50
Toluene-d8
Concen: 9.733 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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# 14
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

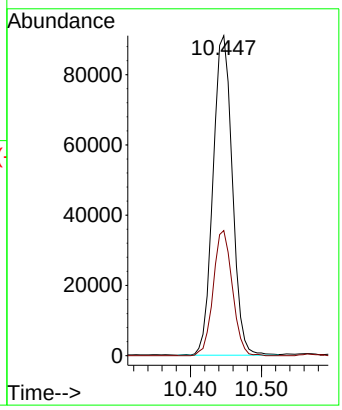
Tgt Ion: 43 Resp: 17127

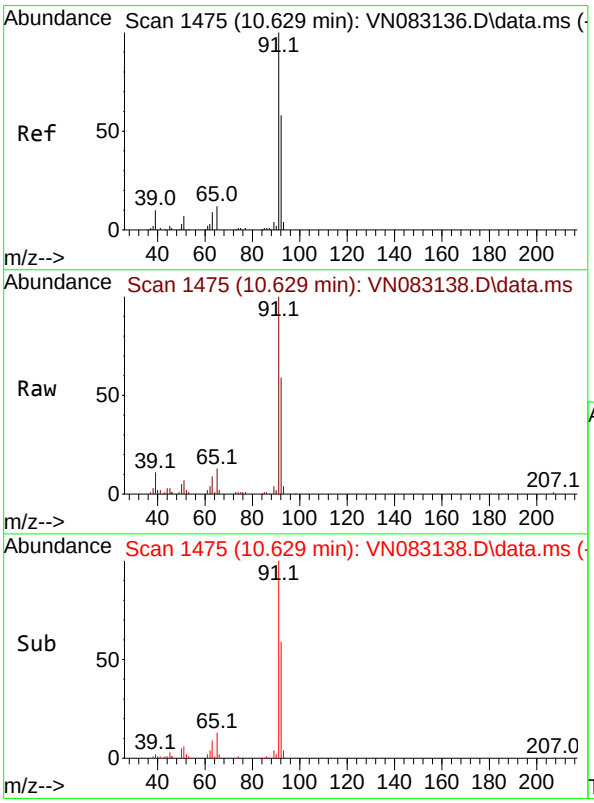
Ion	Ratio	Lower	Upper
43	100		
58	38.8	28.2	42.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

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

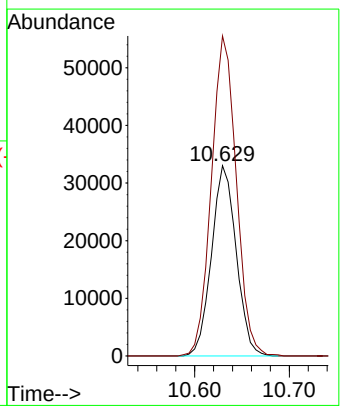


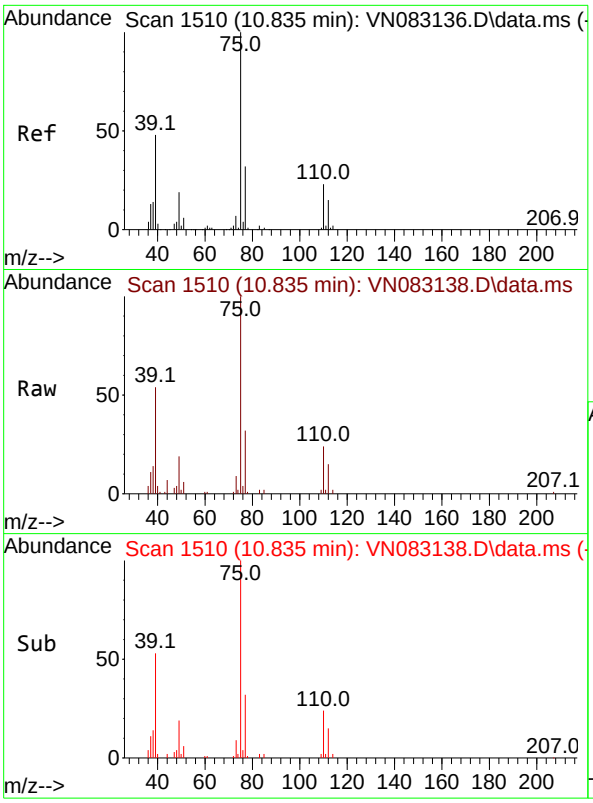


#52
Toluene
Concen: 10.129 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 92 Resp: 59784

Ion	Ratio	Lower	Upper
92	100		
91	170.0	139.4	209.0

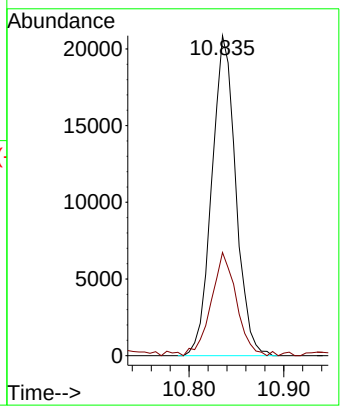




#53
t-1,3-Dichloropropene
Concen: 10.017 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 75 Resp: 3667

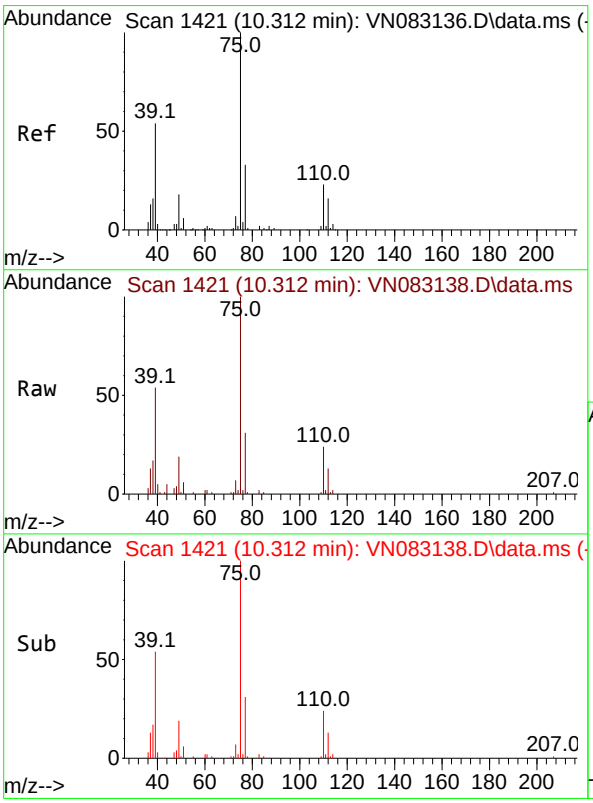
Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

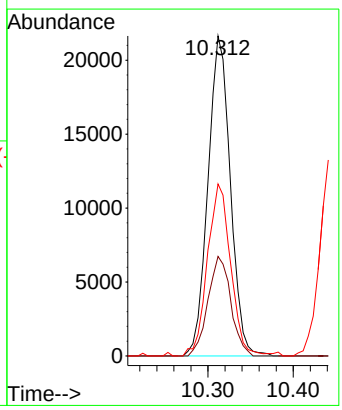
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

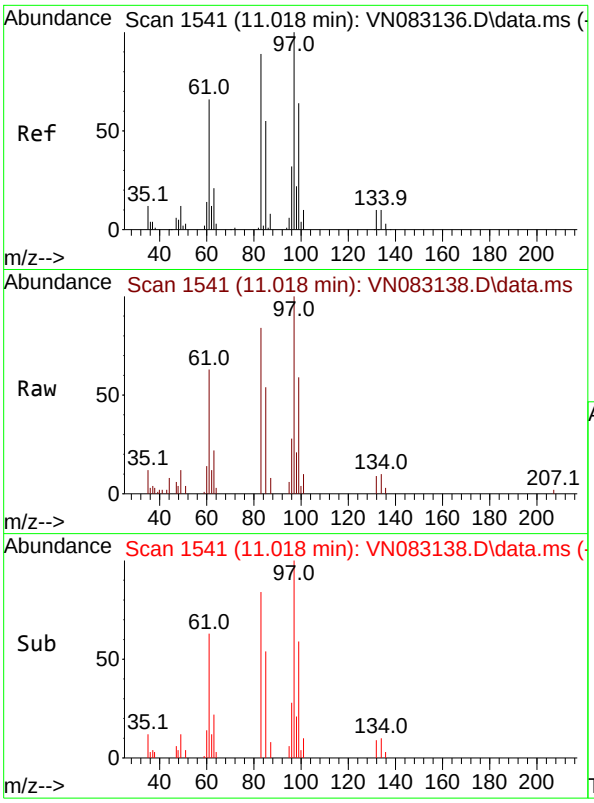


#54
cis-1,3-Dichloropropene
Concen: 10.145 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

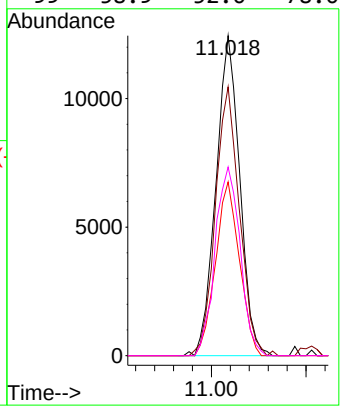




#55
1,1,2-Trichloroethane
Concen: 10.274 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 97 Resp: 2173

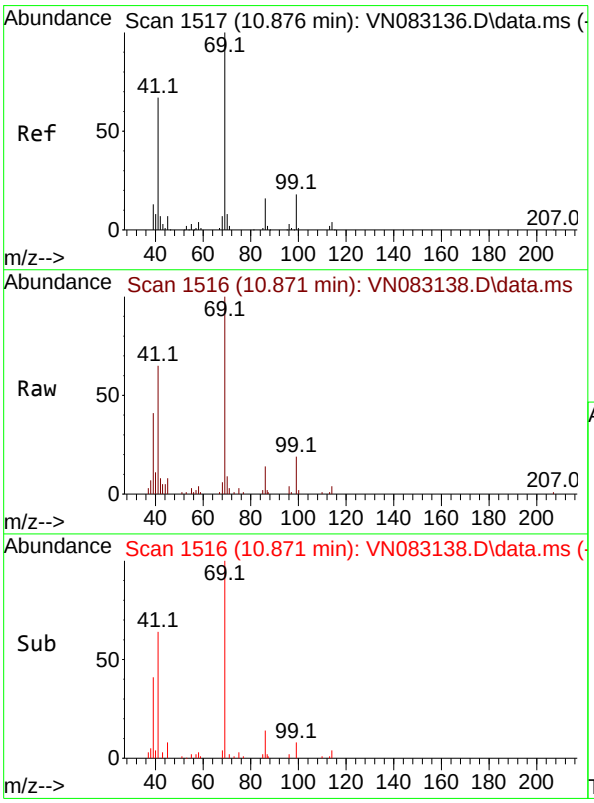
Ion	Ratio	Lower	Upper
97	100		
83	84.0	71.4	107.0
85	54.3	45.8	68.6
99	58.9	52.0	78.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

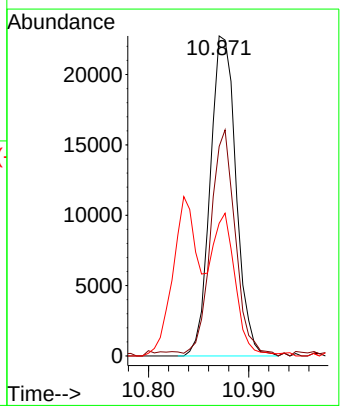
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

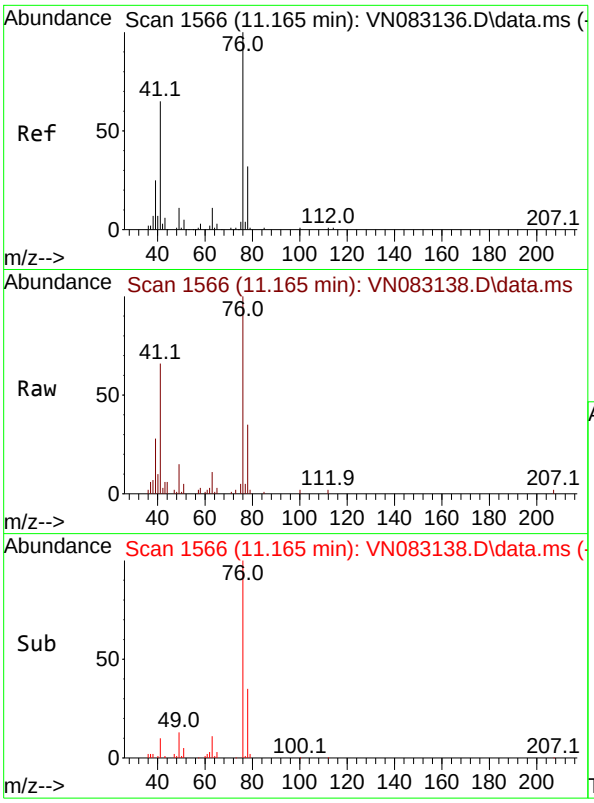


#56
Ethyl methacrylate
Concen: 10.201 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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#

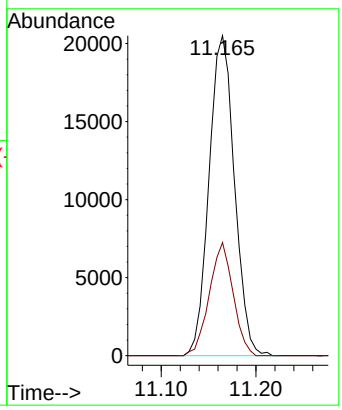




#57
1,3-Dichloropropane
Concen: 10.132 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 76 Resp: 3820

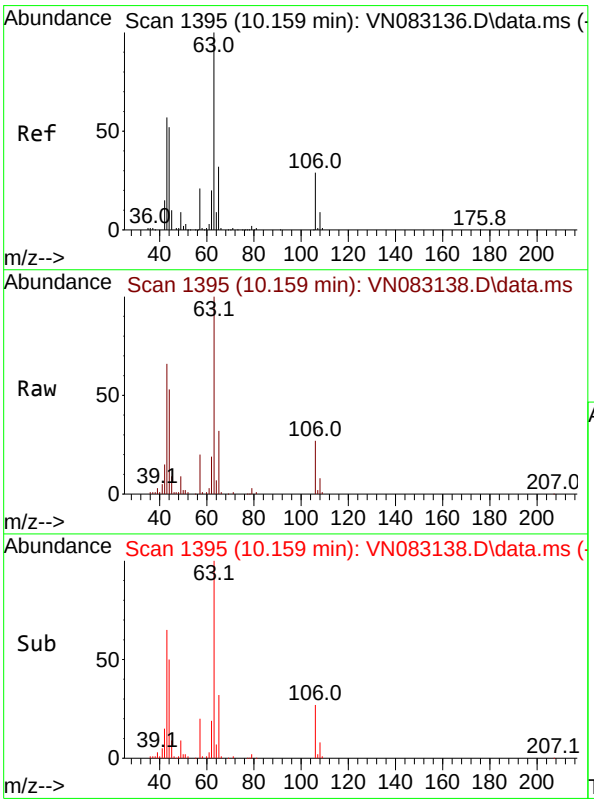
Ion	Ratio	Lower	Upper
76	100		
78	33.1	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

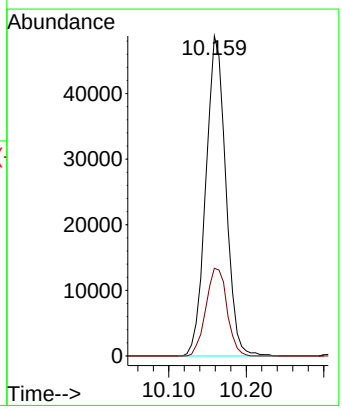
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

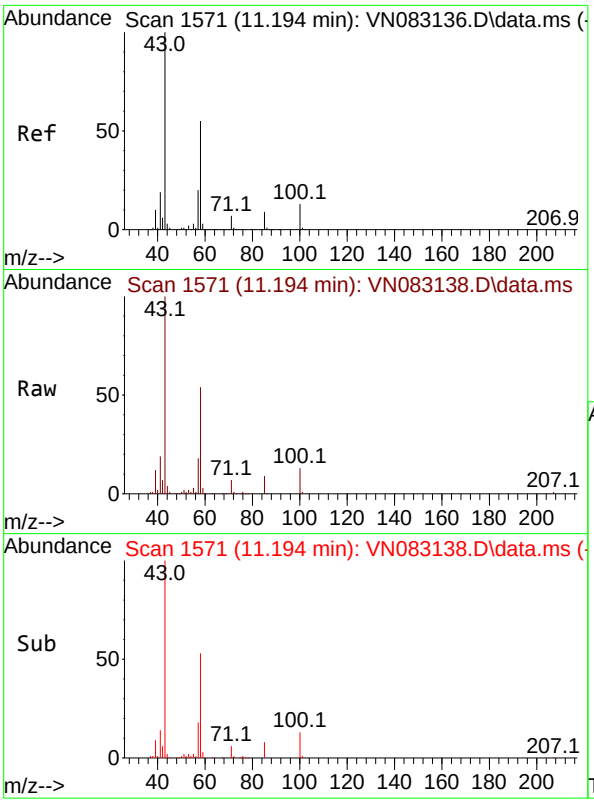


#58
2-Chloroethyl Vinyl ether
Concen: 51.698 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

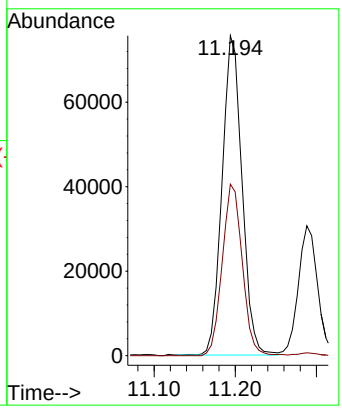
Tgt Ion: 43 Resp: 12923

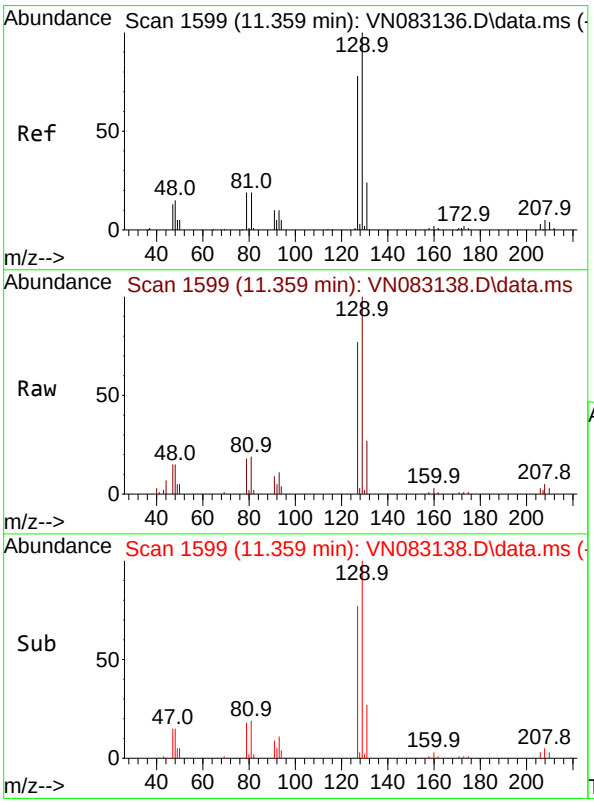
Ion	Ratio	Lower	Upper
43	100		
58	54.0	24.6	73.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

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

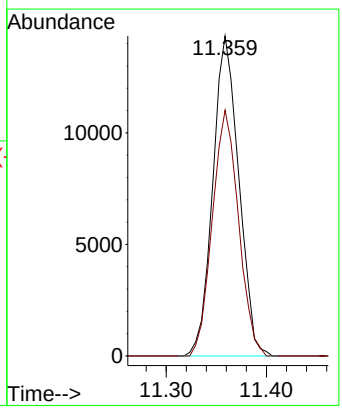


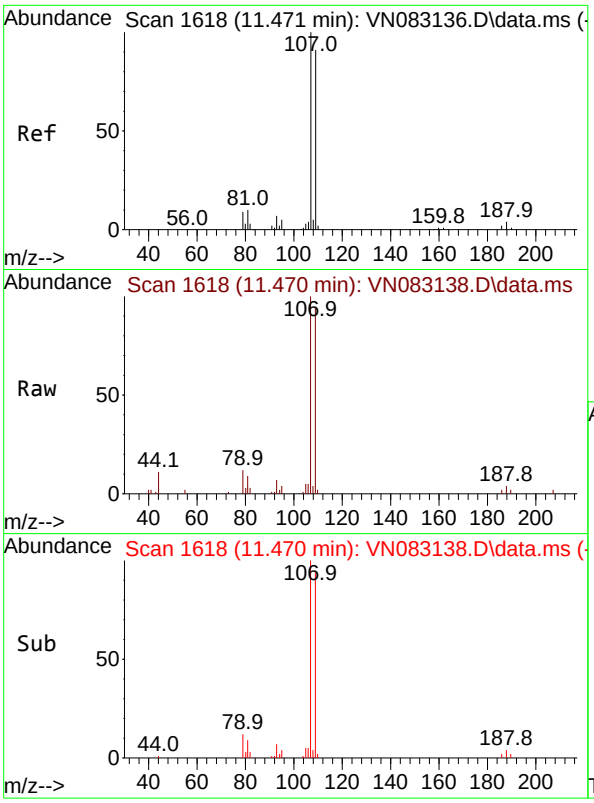


#60
Dibromochloromethane
Concen: 10.088 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

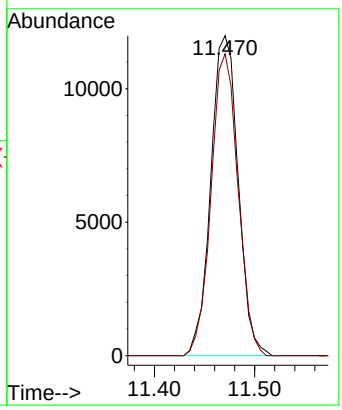
Tgt Ion:107 Resp: 2270

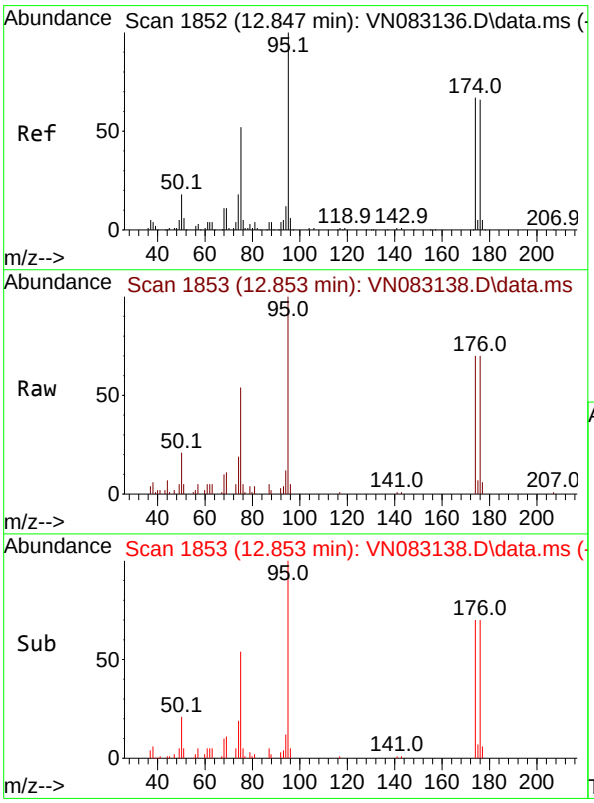
Ion	Ratio	Lower	Upper
107	100		
109	92.7	73.7	110.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

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

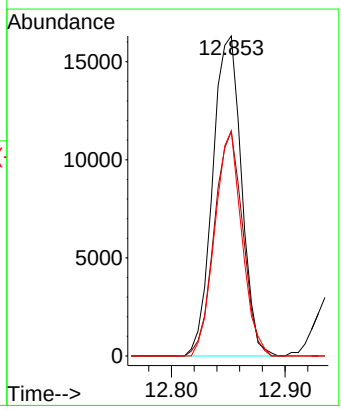


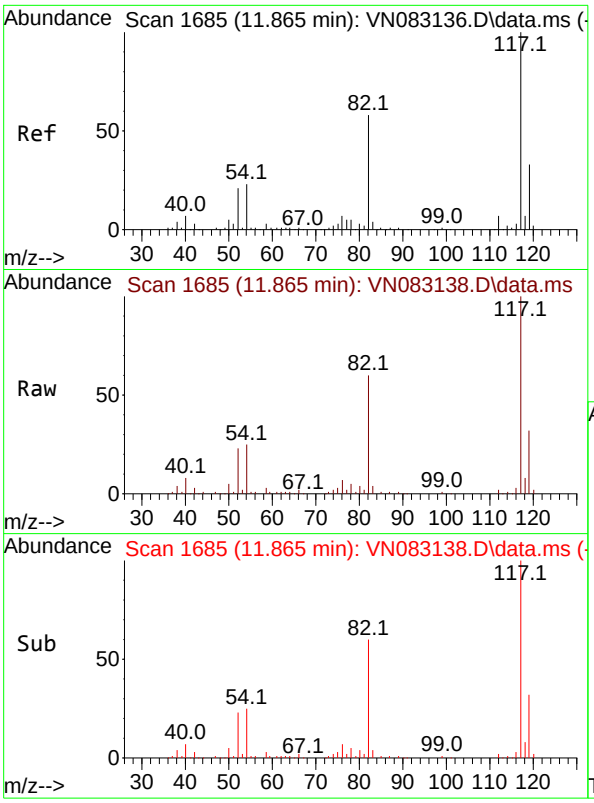


#62
4-Bromofluorobenzene
Concen: 9.517 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

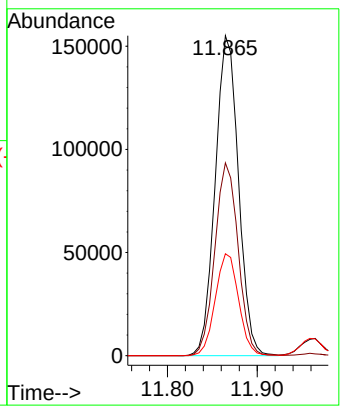




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:117 Resp: 27940

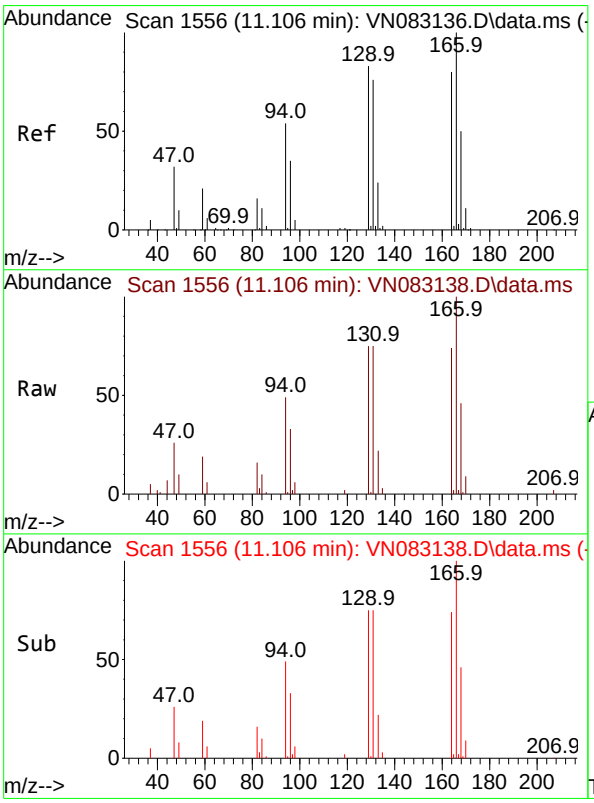
Ion	Ratio	Lower	Upper
117	100		
82	60.2	47.5	71.3
119	31.9	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

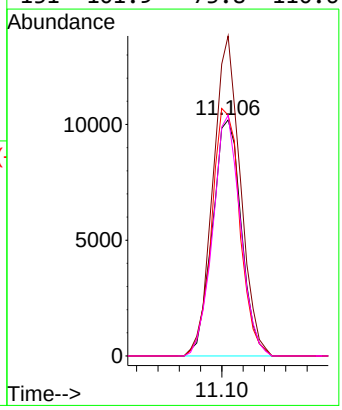
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

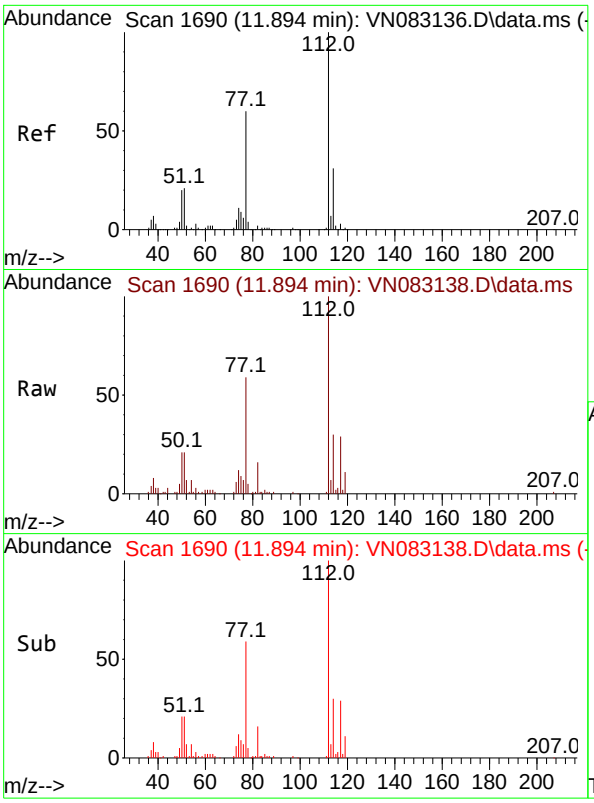


#64
Tetrachloroethene
Concen: 10.362 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

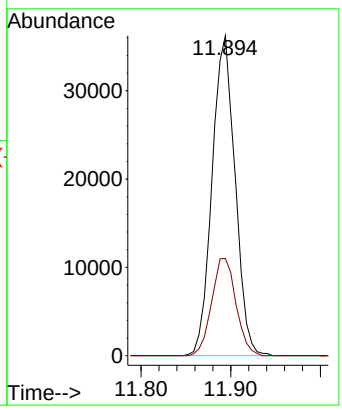




#65
Chlorobenzene
Concen: 10.437 ug/l
RT: 11.894 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:112 Resp: 6444

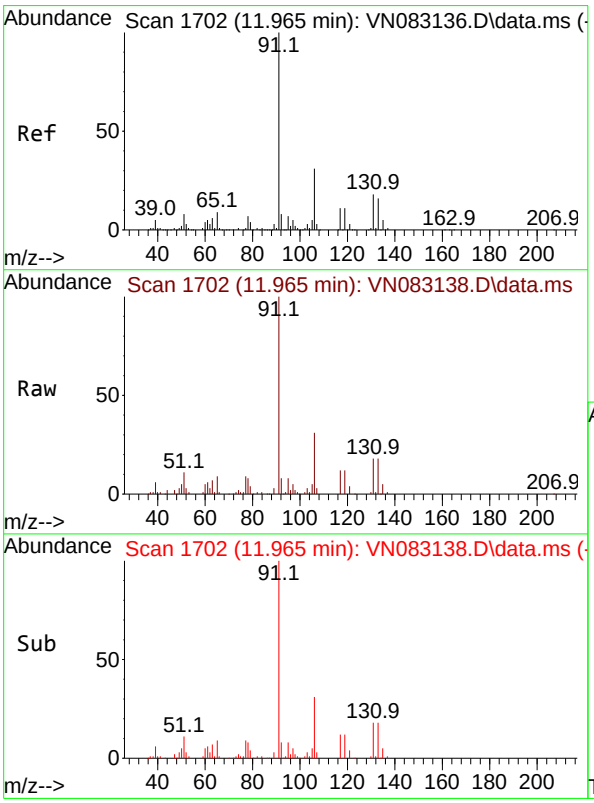
Ion	Ratio	Lower	Upper
112	100		
114	30.4	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

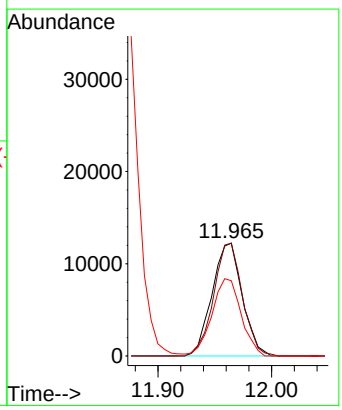
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

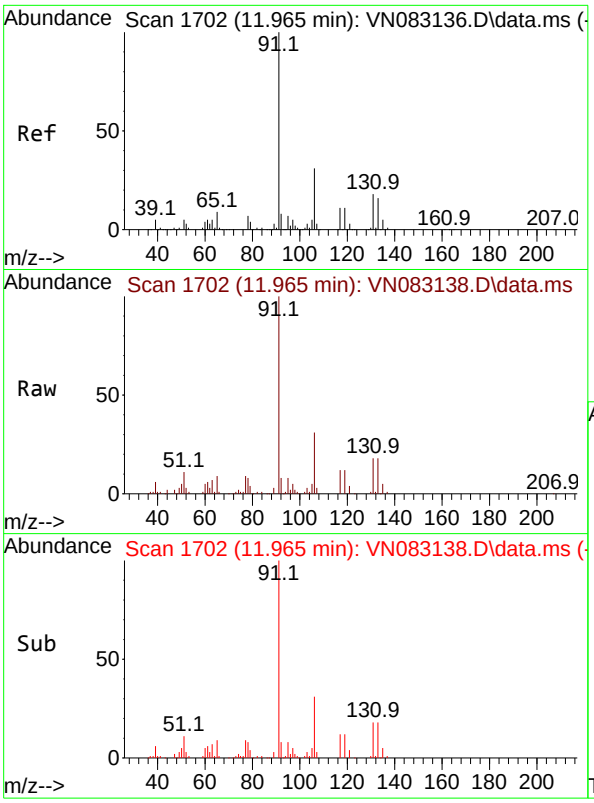


#66
1,1,1,2-Tetrachloroethane
Concen: 10.331 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

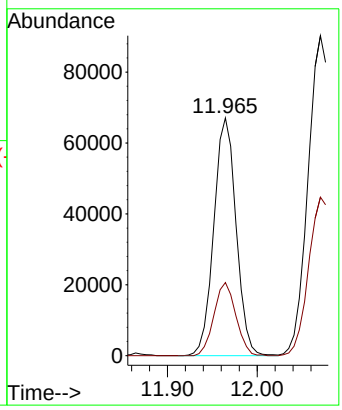
Tgt Ion: 91 Resp: 11566

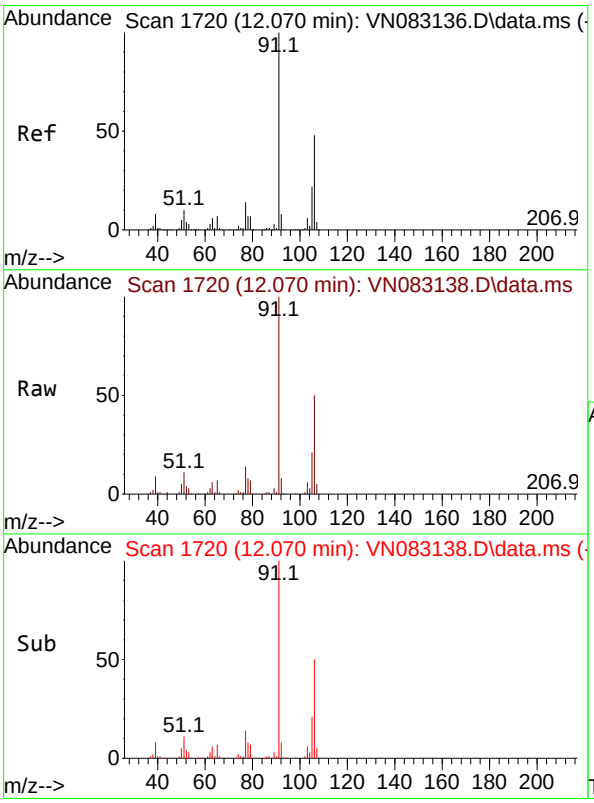
Ion	Ratio	Lower	Upper
91	100		
106	30.7	24.0	36.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

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

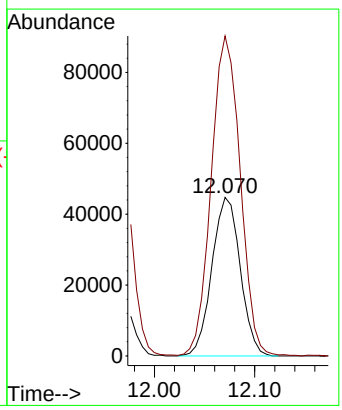


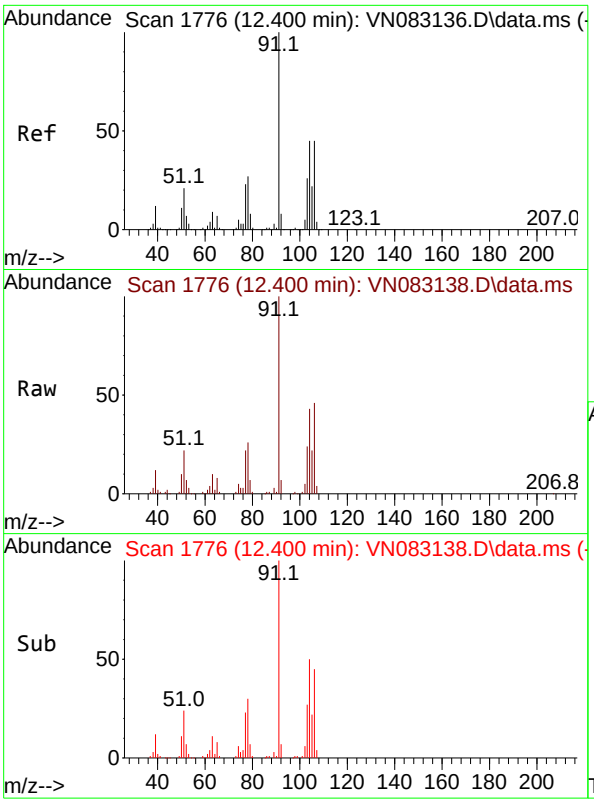


#68
m/p-Xylenes
Concen: 20.687 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

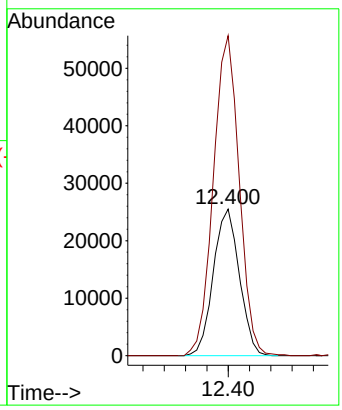
Tgt Ion:106 Resp: 4321

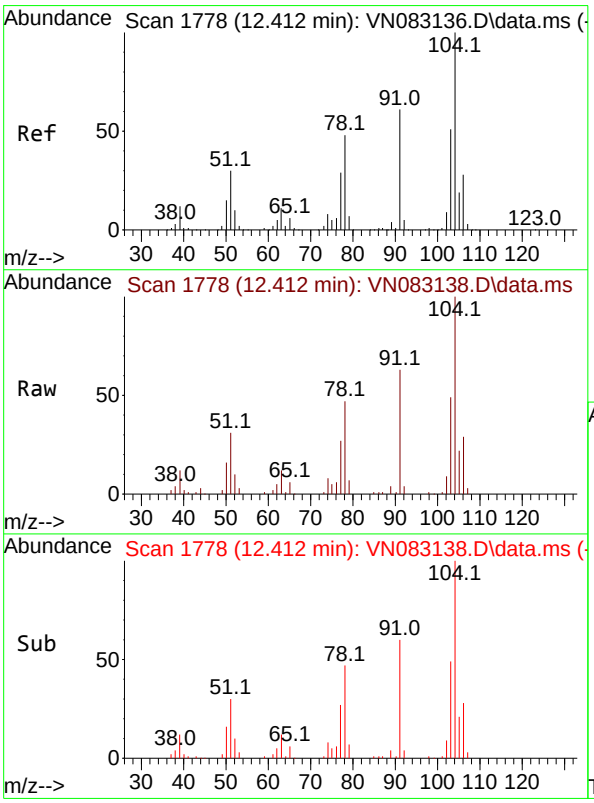
Ion	Ratio	Lower	Upper
106	100		
91	217.0	111.3	333.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

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

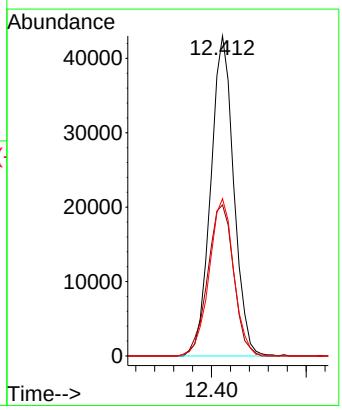


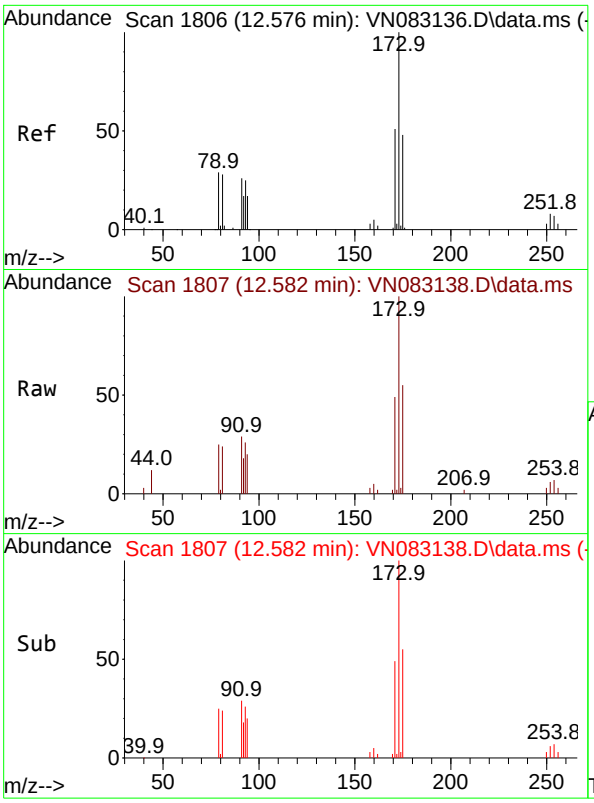


#70
Styrene
Concen: 10.335 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

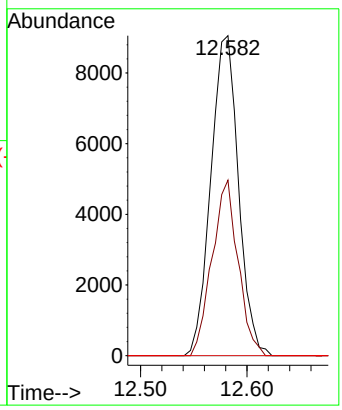




#71
Bromoform
Concen: 9.893 ug/l
RT: 12.582 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:173 Resp: 1632

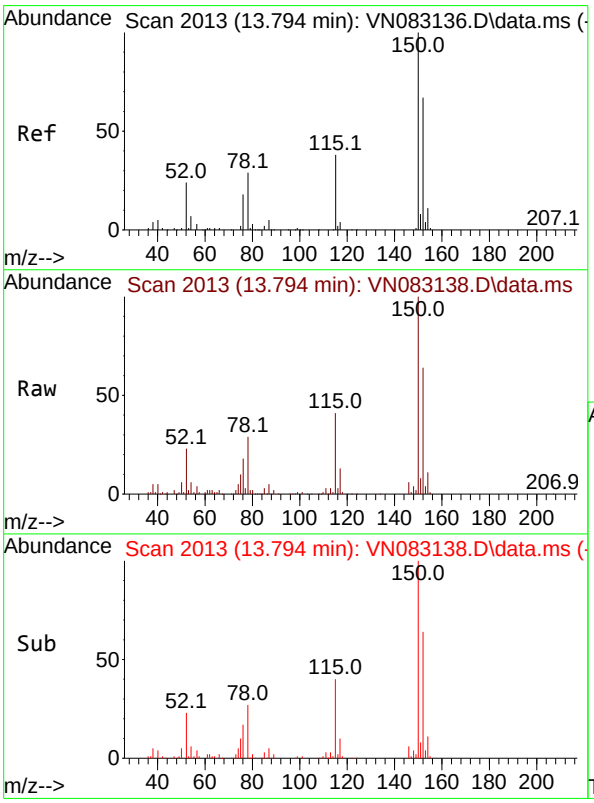
Ion	Ratio	Lower	Upper
173	100		
175	51.7	24.0	72.0
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

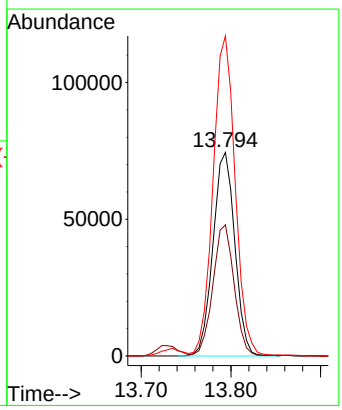
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

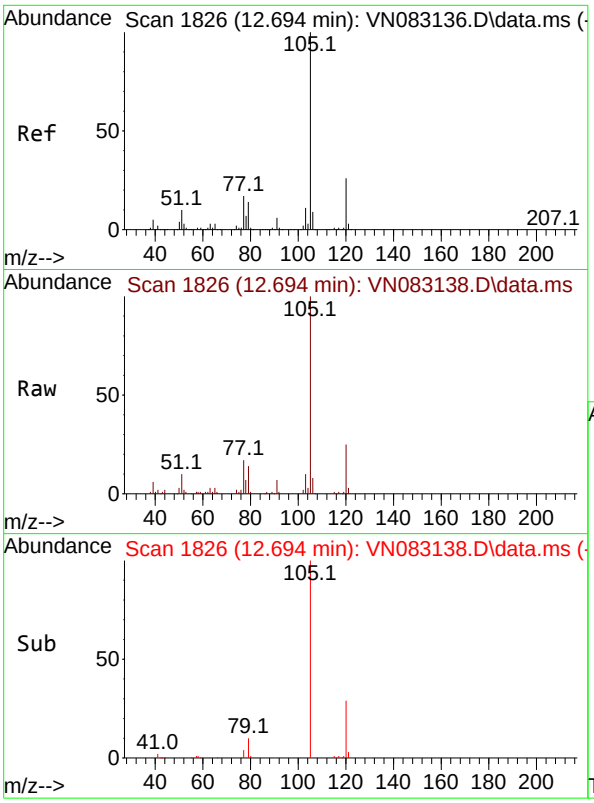


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

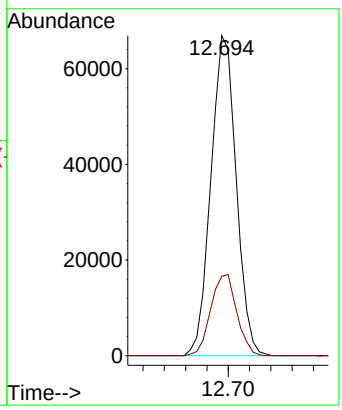




#73
Isopropylbenzene
Concen: 10.487 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:105 Resp: 11027

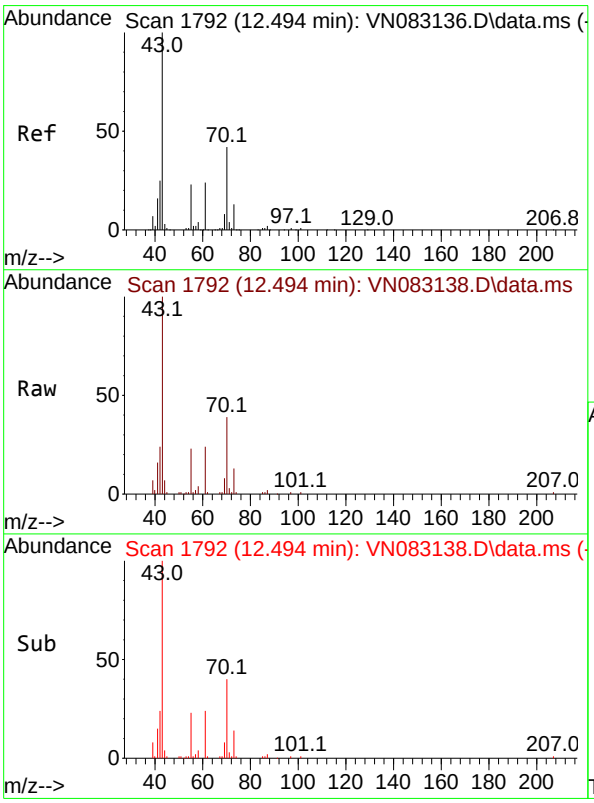
Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.9	38.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

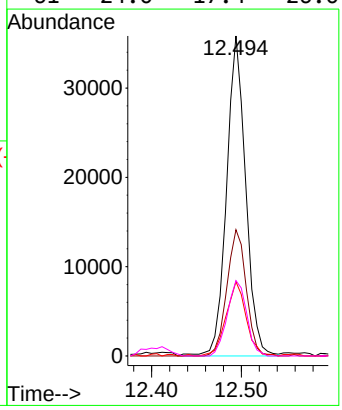
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

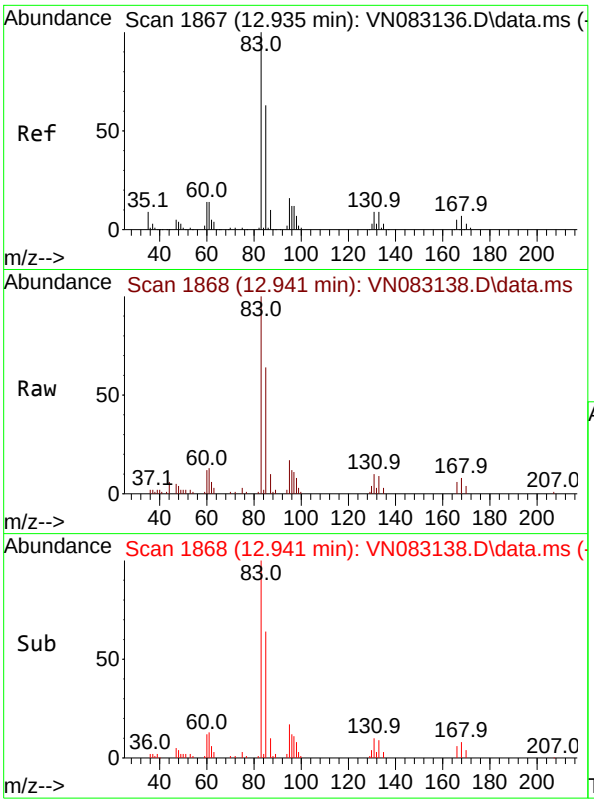


#74
N-amyl acetate
Concen: 10.303 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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# 1
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

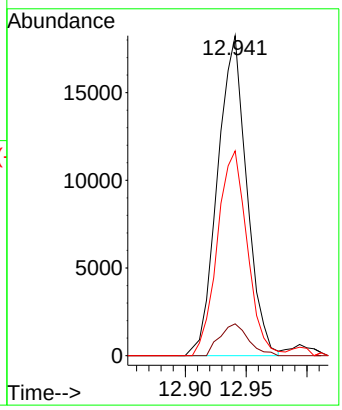
Tgt Ion: 83 Resp: 3043

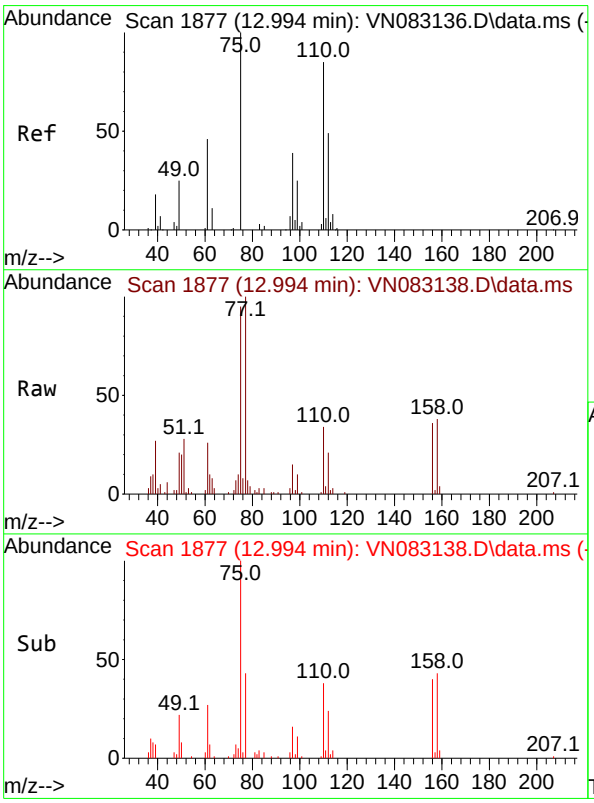
Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.0	14.9
85	65.6	31.9	95.7

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

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

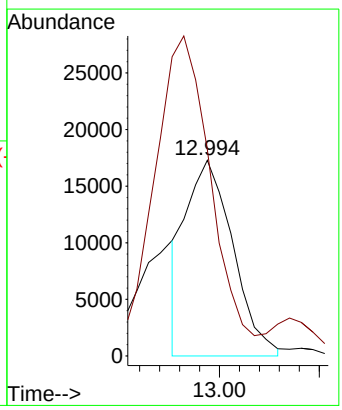


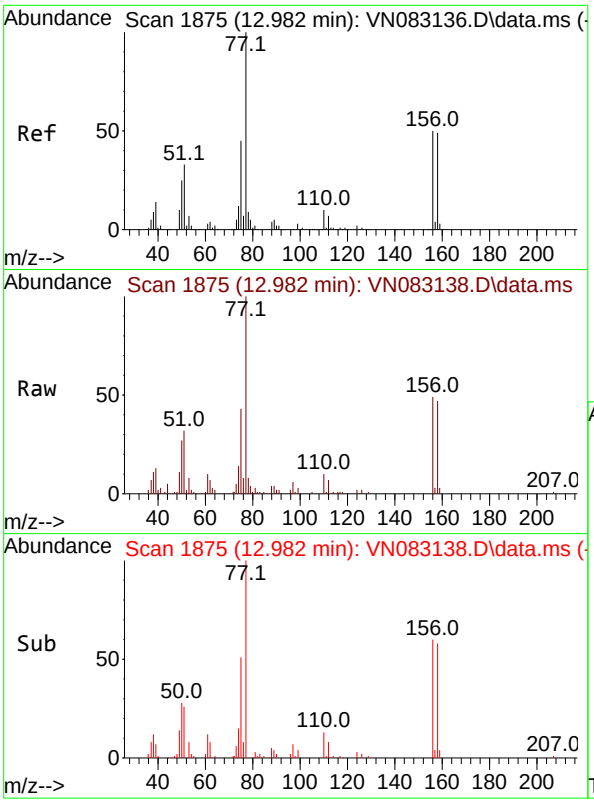


#76
1,2,3-Trichloropropane
Concen: 10.261 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 75 Resp: 28359

Ion	Ratio	Lower	Upper
75	100		
77	197.9	110.9	332.6

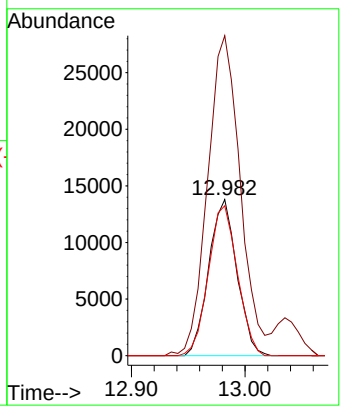




#77
Bromobenzene
Concen: 10.180 ug/l
RT: 12.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:156 Resp: 2378

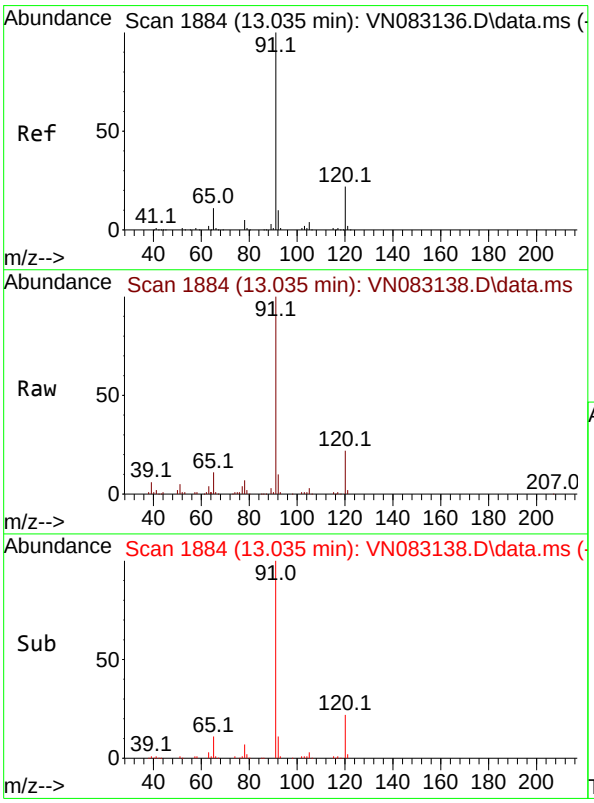
Ion	Ratio	Lower	Upper
156	100		
77	236.0	111.3	333.8
158	98.9	48.3	144.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

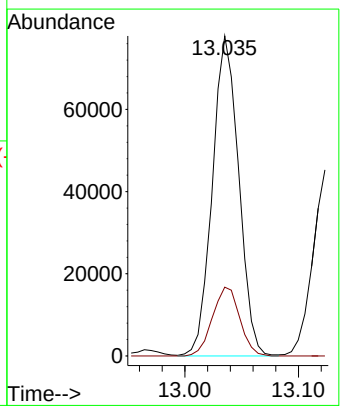
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

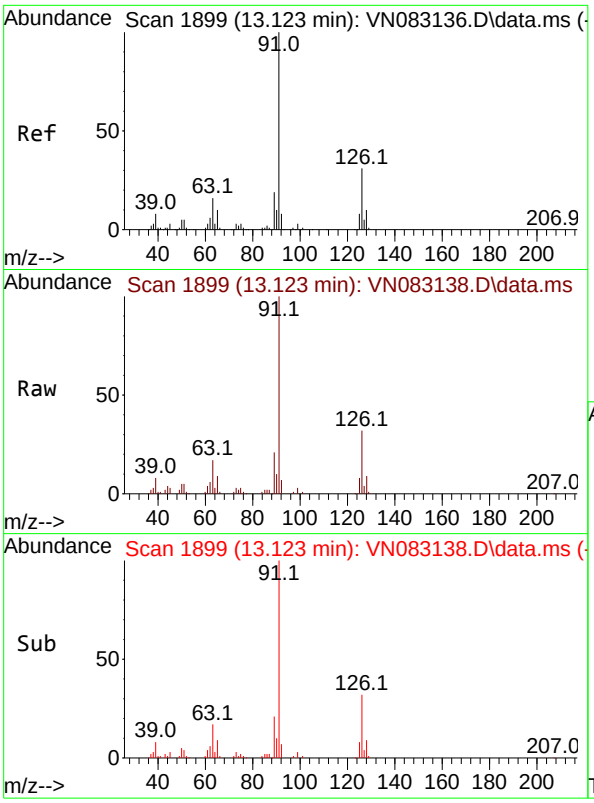


#78
n-propylbenzene
Concen: 10.379 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 91 Resp: 125678

Ion	Ratio	Lower	Upper
91	100		
120	22.2	10.9	32.9

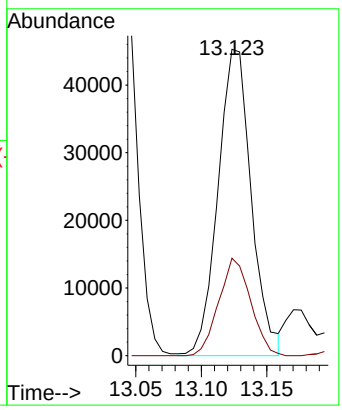




#79
2-Chlorotoluene
Concen: 10.429 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 91 Resp: 8006

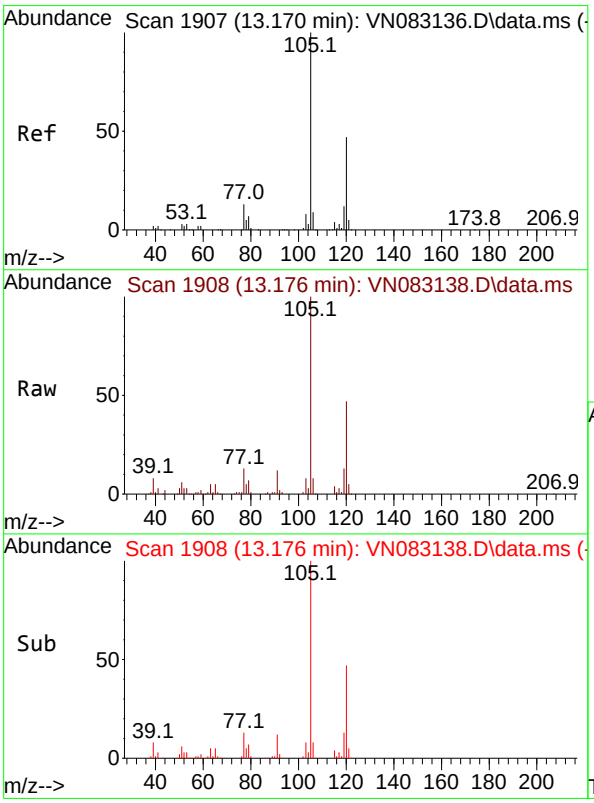
Ion	Ratio	Lower	Upper
91	100		
126	30.4	16.2	48.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

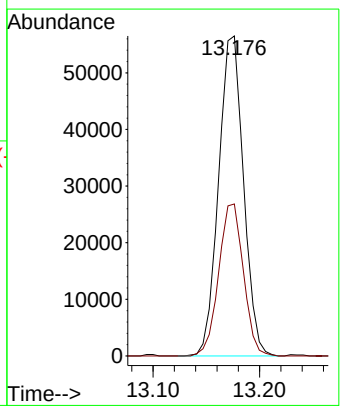
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

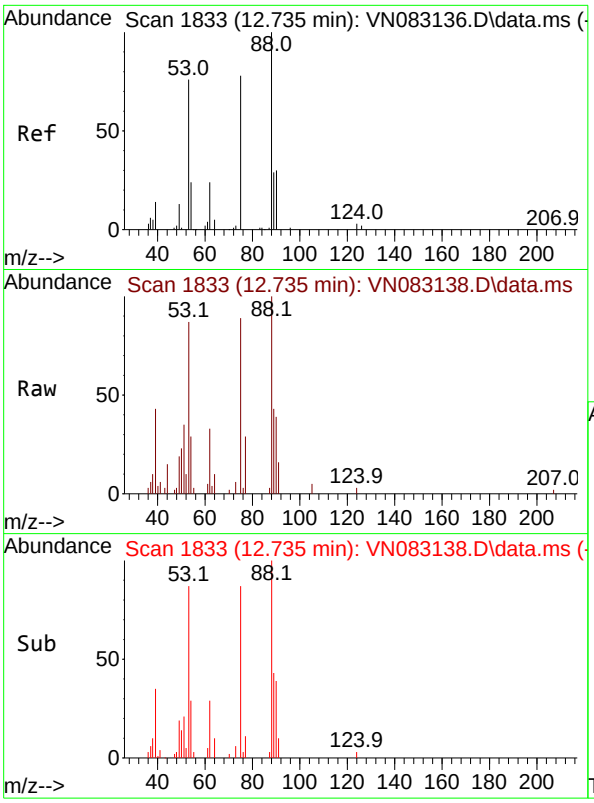


#80
1,3,5-Trimethylbenzene
Concen: 10.400 ug/l
RT: 13.176 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

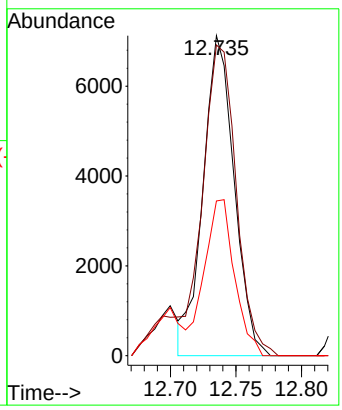
Tgt Ion: 75 Resp: 1176

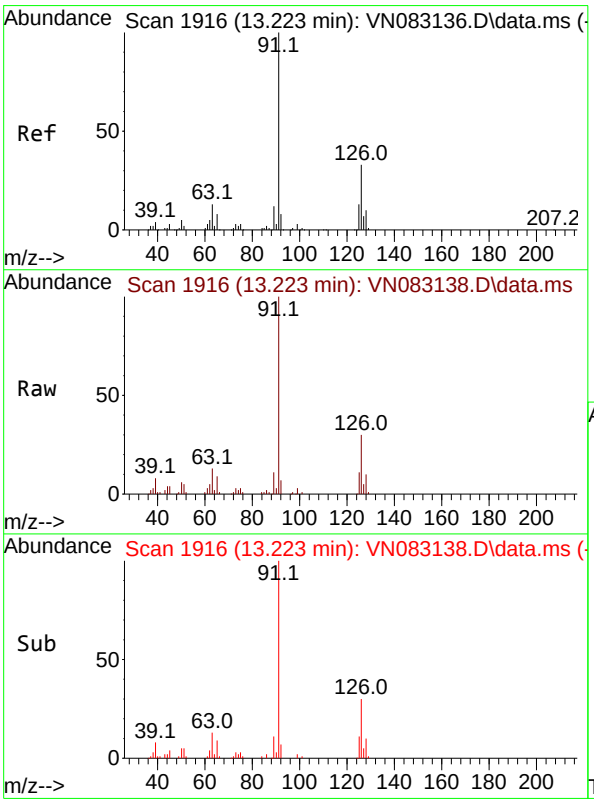
Ion	Ratio	Lower	Upper
75	100		
53	116.7	88.4	132.6
89	47.3	36.3	54.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

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

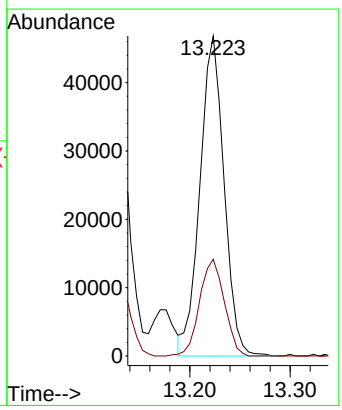


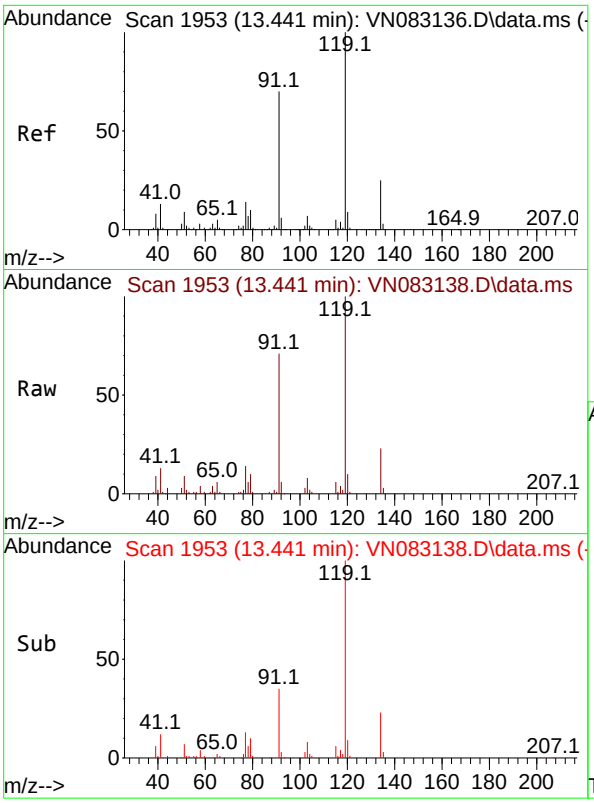


#82
4-Chlorotoluene
Concen: 10.174 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

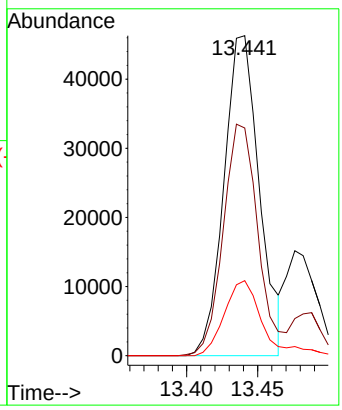
Tgt Ion:119 Resp: 8026

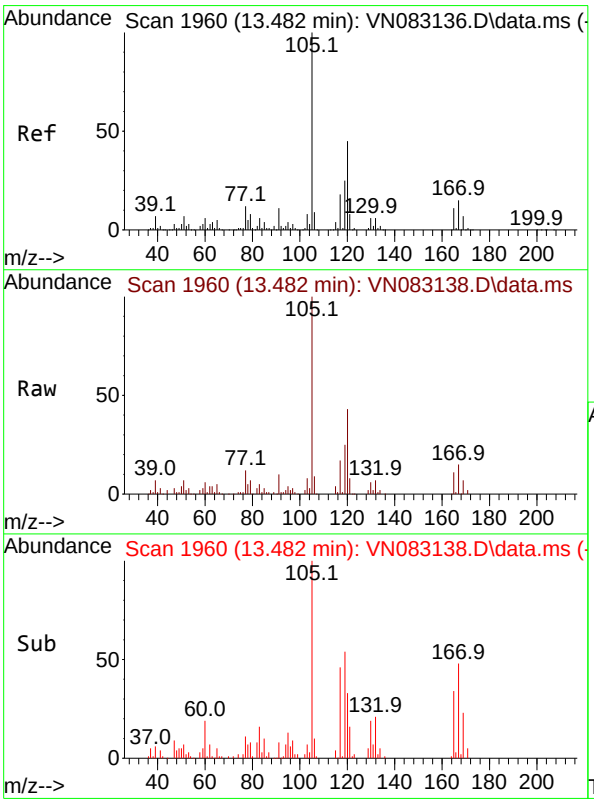
Ion	Ratio	Lower	Upper
119	100		
91	71.7	35.0	105.1
134	25.3	13.3	39.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

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

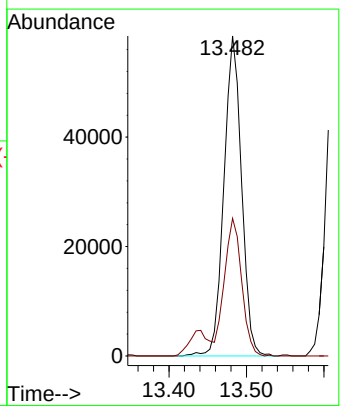


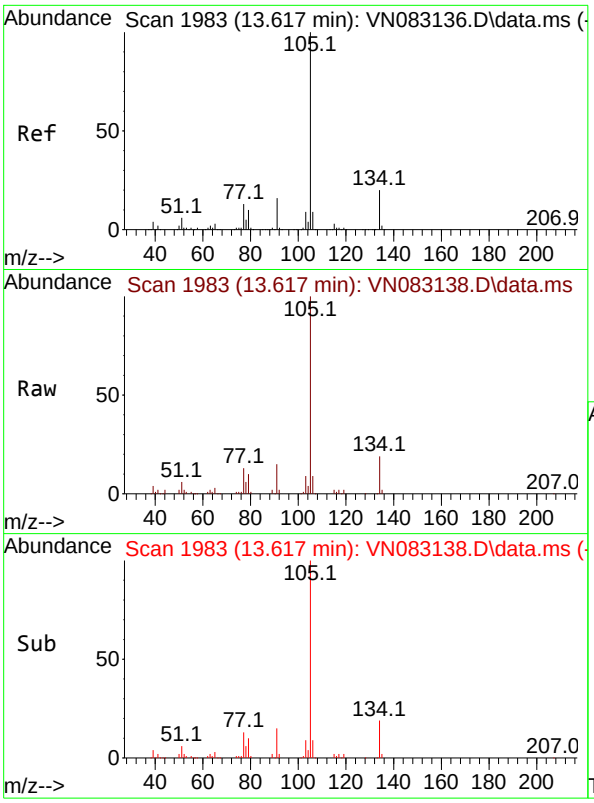


#84
1,2,4-Trimethylbenzene
Concen: 10.426 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

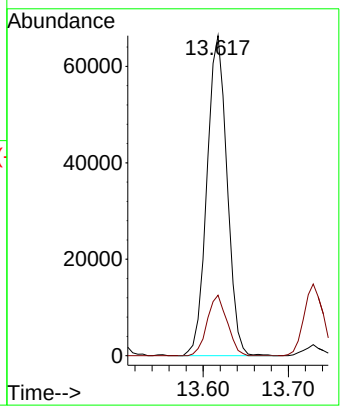
Tgt Ion:105 Resp: 10874

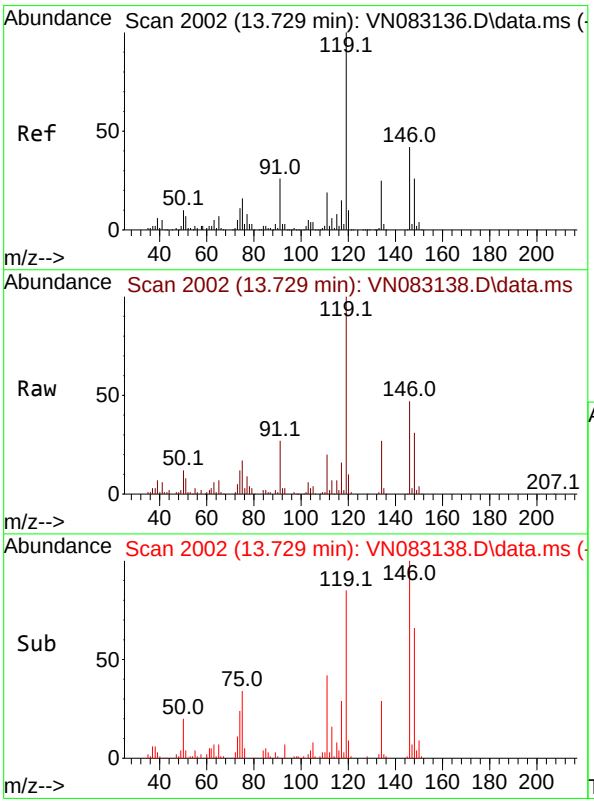
Ion	Ratio	Lower	Upper
105	100		
134	18.8	9.8	29.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

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

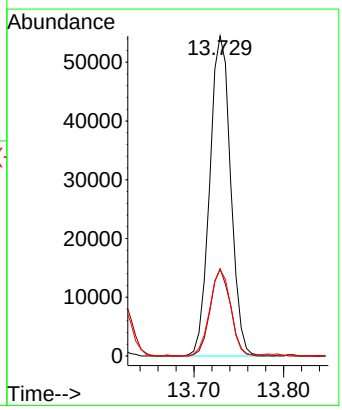


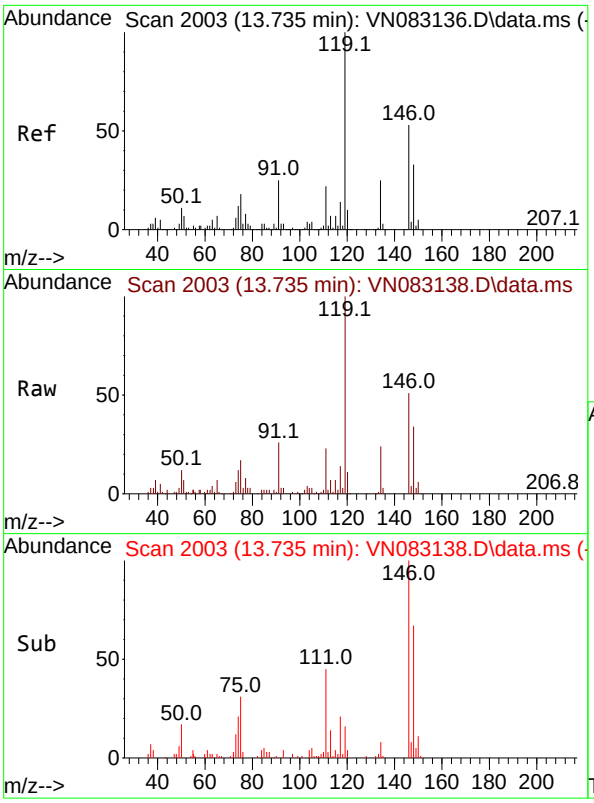


#86
p-Isopropyltoluene
Concen: 10.047 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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# 2
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

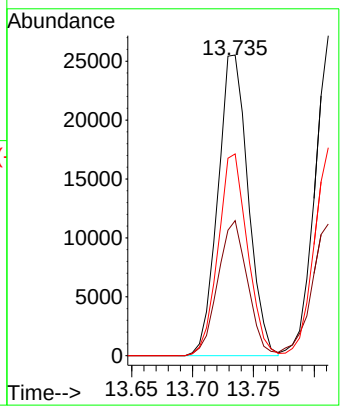
Tgt Ion:146 Resp: 4416

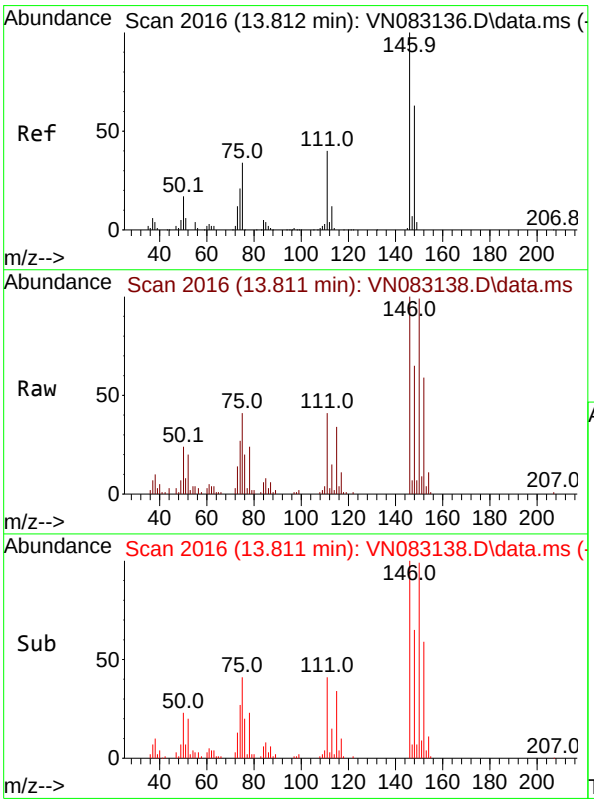
Ion	Ratio	Lower	Upper
146	100		
111	44.1	20.6	61.9
148	65.1	31.8	95.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

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

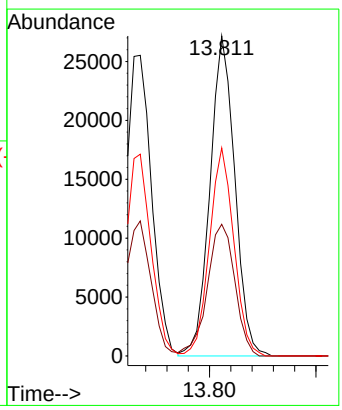


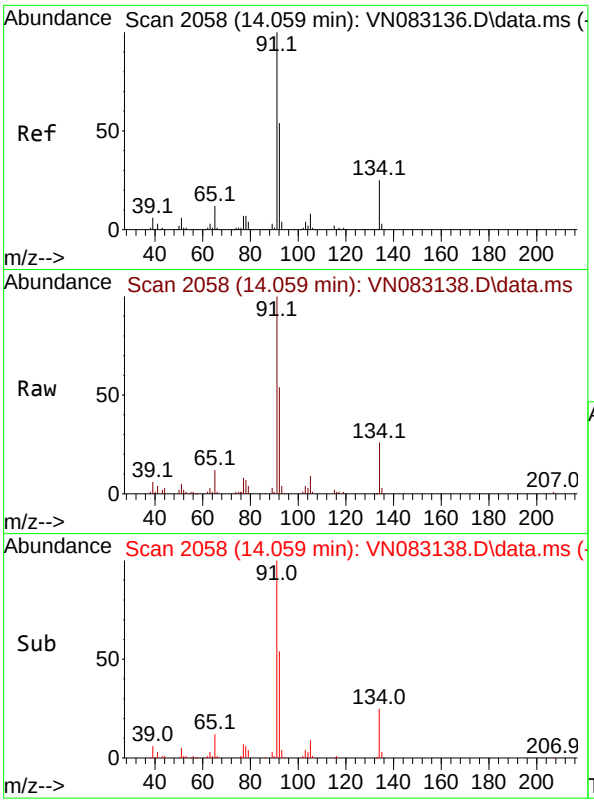


#88
1,4-Dichlorobenzene
Concen: 9.937 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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# 2
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

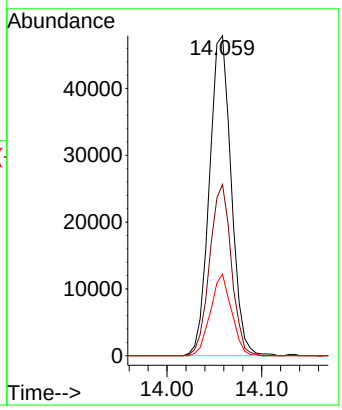
Tgt Ion: 91 Resp: 7656

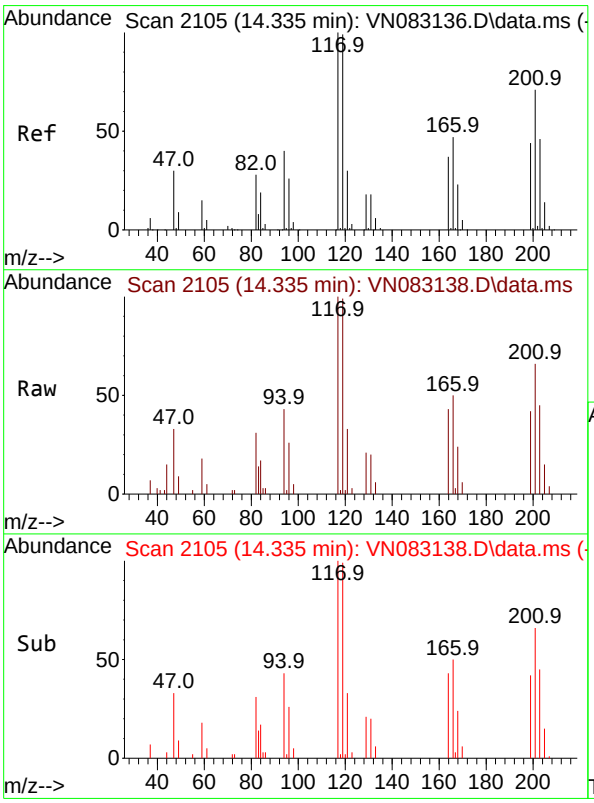
Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.1	78.3
134	24.7	12.1	36.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

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

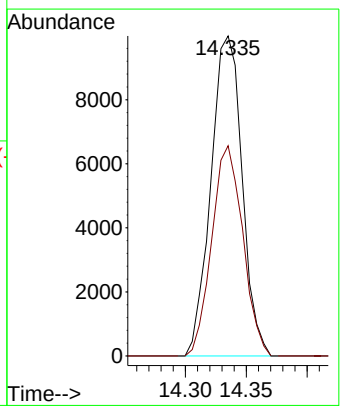


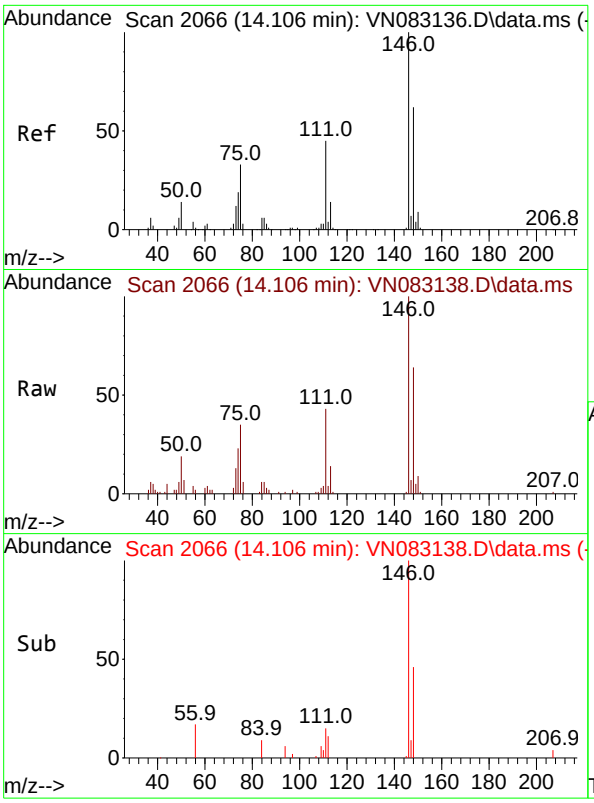


#90
Hexachloroethane
Concen: 10.487 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:117 Resp: 17798

Ion	Ratio	Lower	Upper
117	100		
201	65.3	35.8	107.3

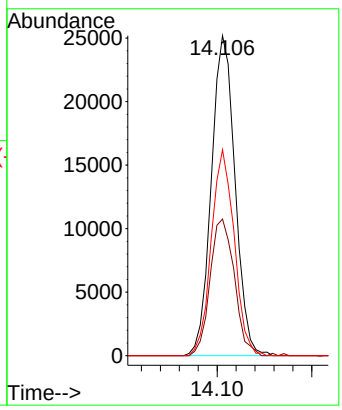




#91
1,2-Dichlorobenzene
Concen: 10.282 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:146 Resp: 4373

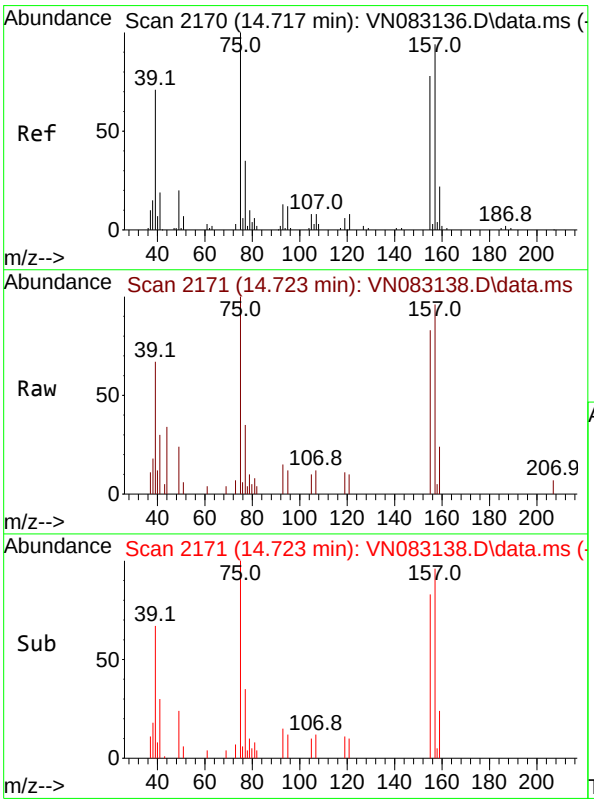
Ion	Ratio	Lower	Upper
146	100		
111	43.8	21.4	64.2
148	62.3	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

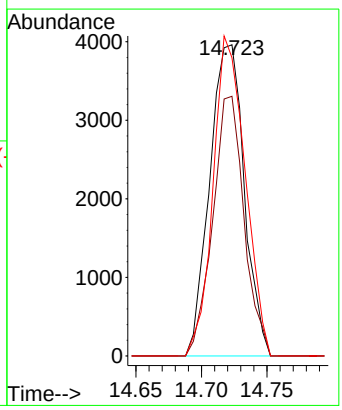
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

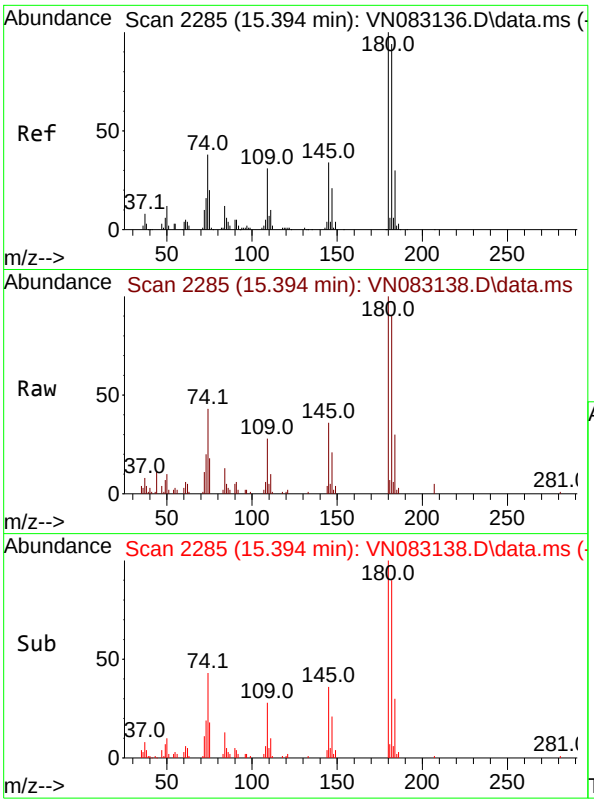


#92
1,2-Dibromo-3-Chloropropane
Concen: 10.056 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

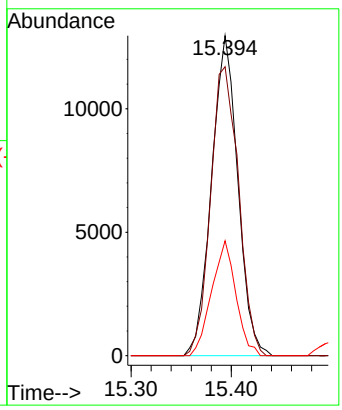




#93
1,2,4-Trichlorobenzene
Concen: 9.895 ug/l
RT: 15.394 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:180 Resp: 2358

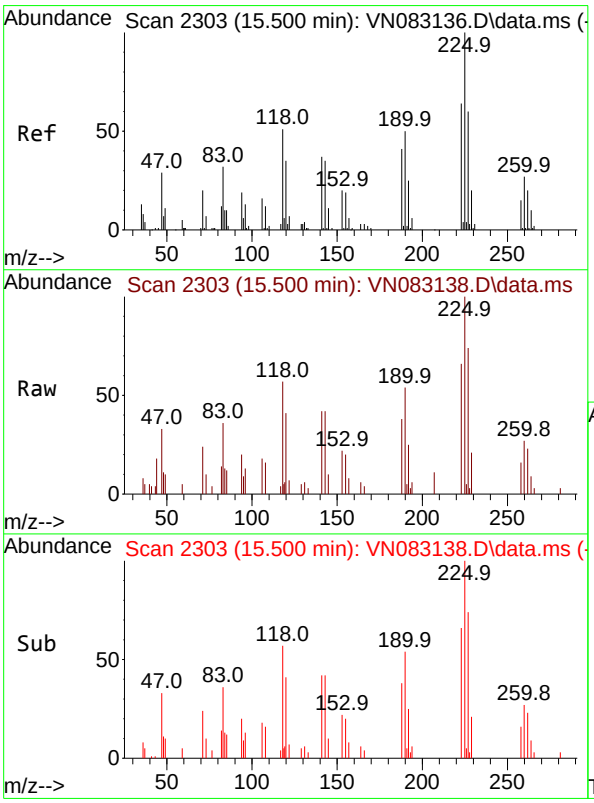
Ion	Ratio	Lower	Upper
180	100		
182	96.2	47.3	141.8
145	33.2	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

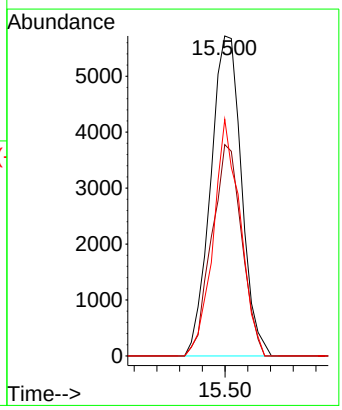
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

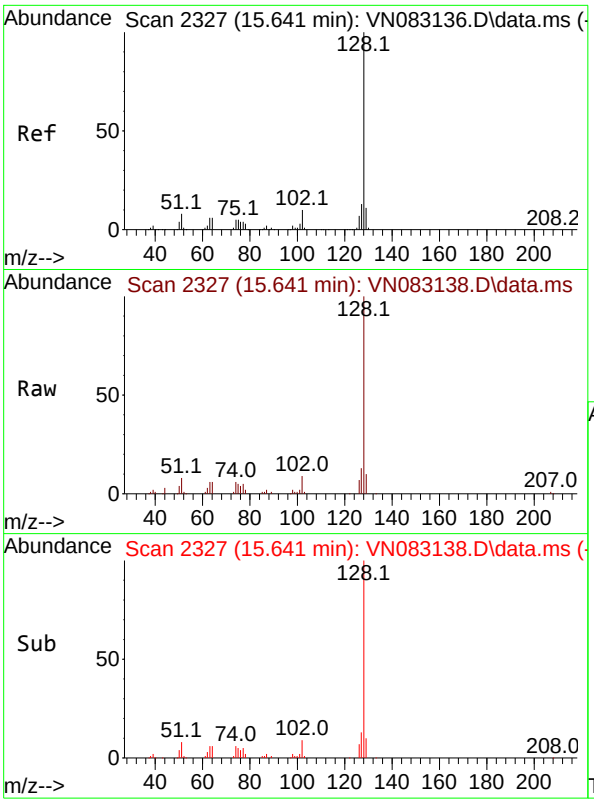


#94
Hexachlorobutadiene
Concen: 10.179 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

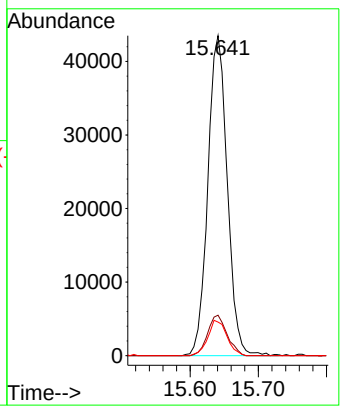




#95
Naphthalene
Concen: 10.232 ug/l
RT: 15.641 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:128 Resp: 8637

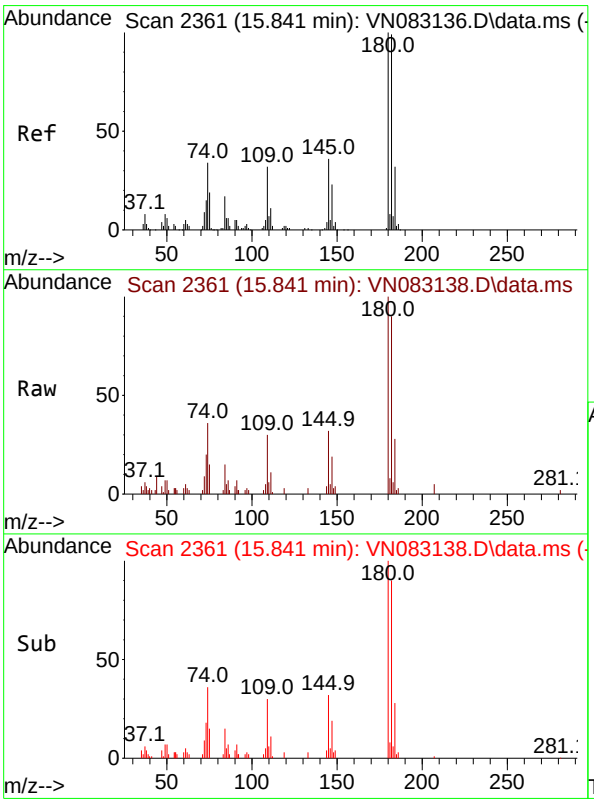
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.6	16.0
129	10.8	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

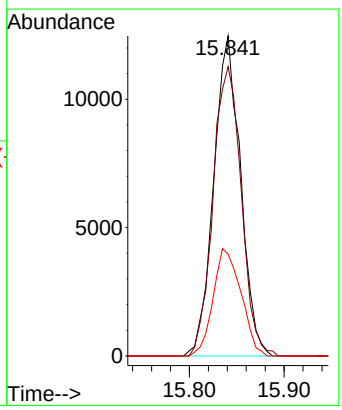
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#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:180 Resp: 24492

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



ICAL Form

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

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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	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

ICAL Form

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

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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	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

ICAL Form

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

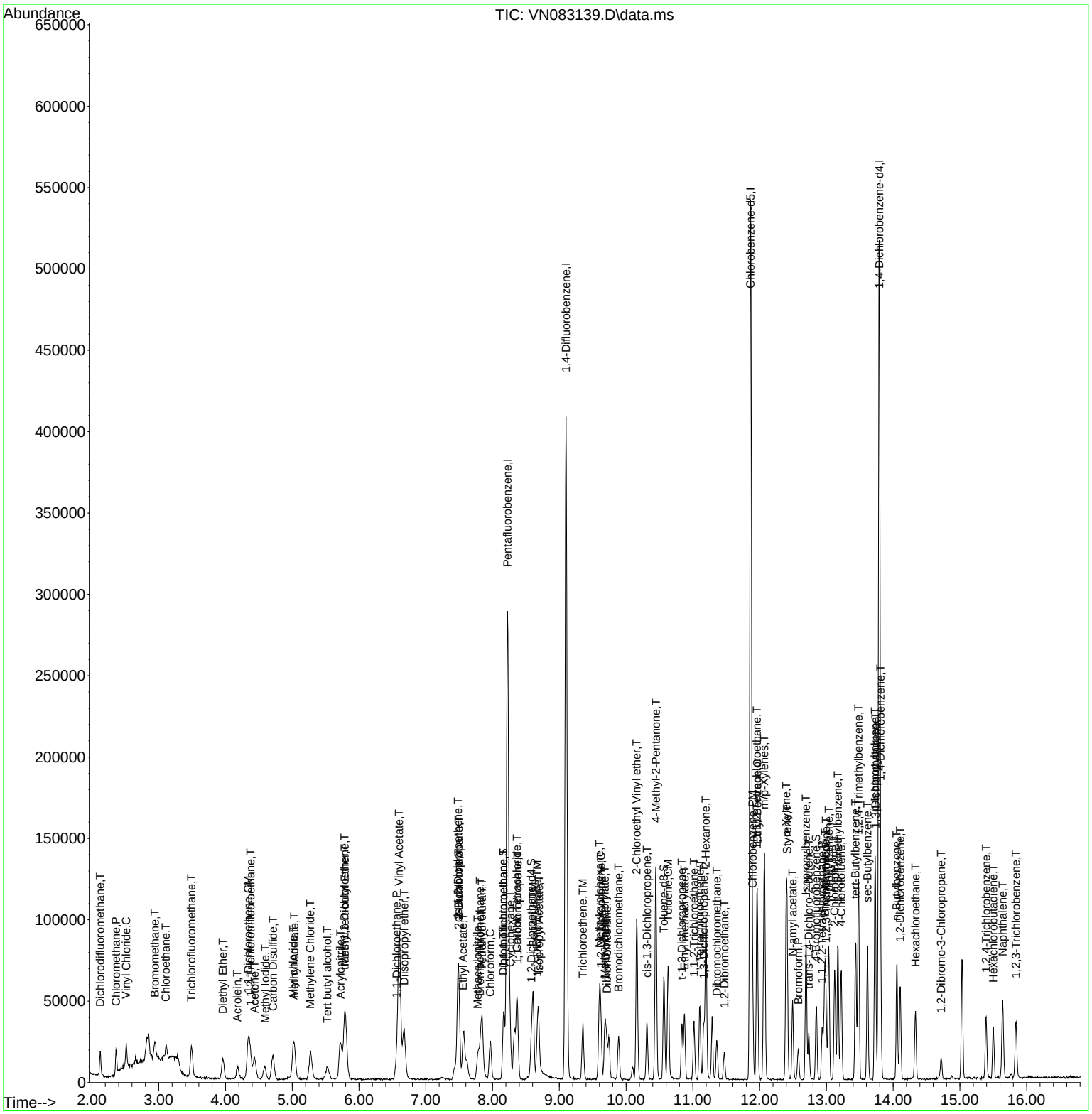
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083139.D
Acq On : 07 Aug 2024 12:10
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

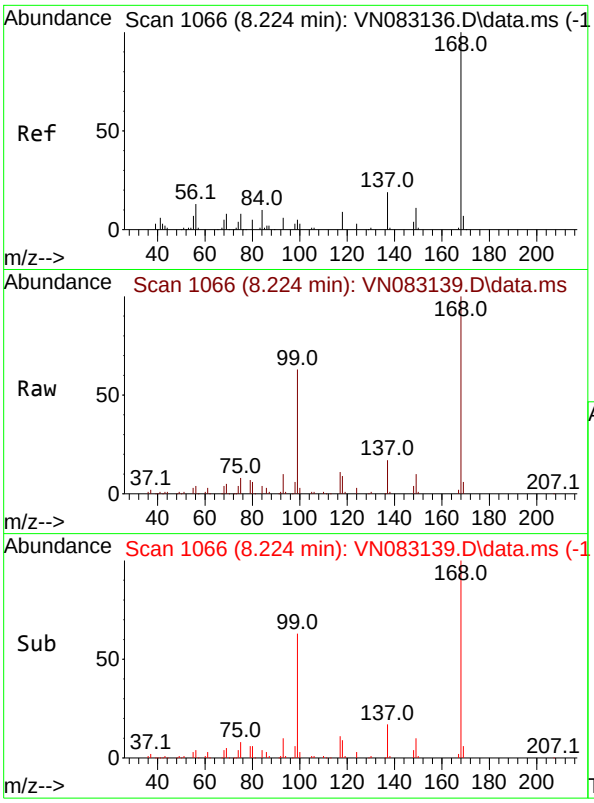
Quant Time: Aug 08 06:18:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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

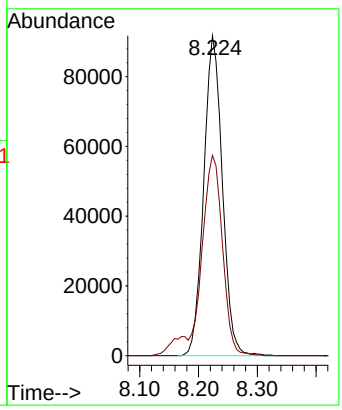




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:168 Resp: 20185

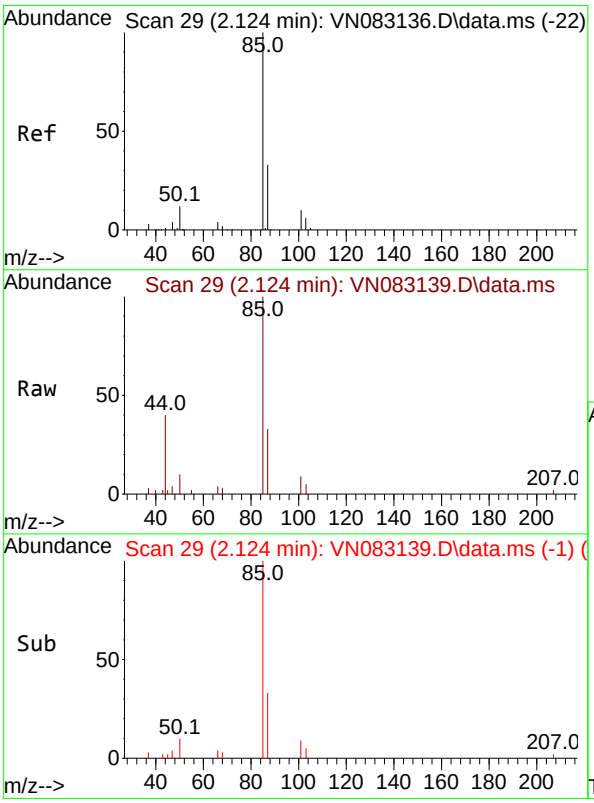
Ion	Ratio	Lower	Upper
168	100		
99	62.6	48.2	72.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

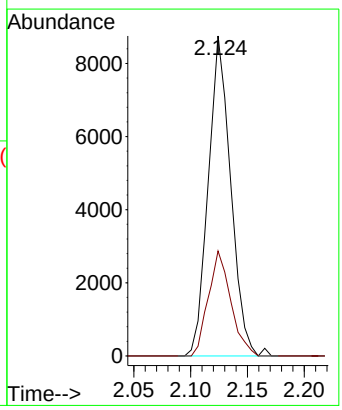
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

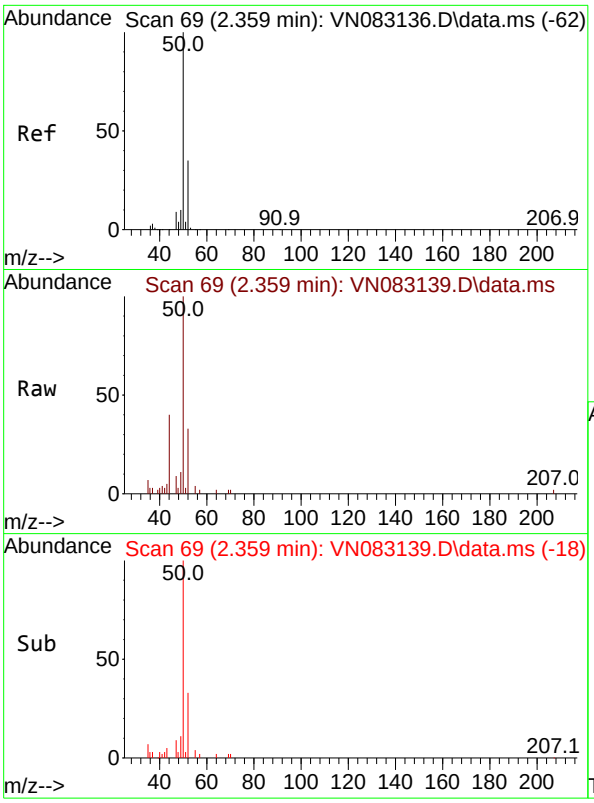


#2
Dichlorodifluoromethane
Concen: 5.262 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 85 Resp: 12045

Ion	Ratio	Lower	Upper
85	100		
87	32.8	15.7	47.0

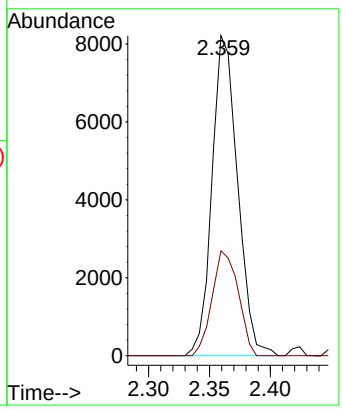




#3
Chloromethane
Concen: 5.128 ug/l
RT: 2.359 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 50 Resp: 1201

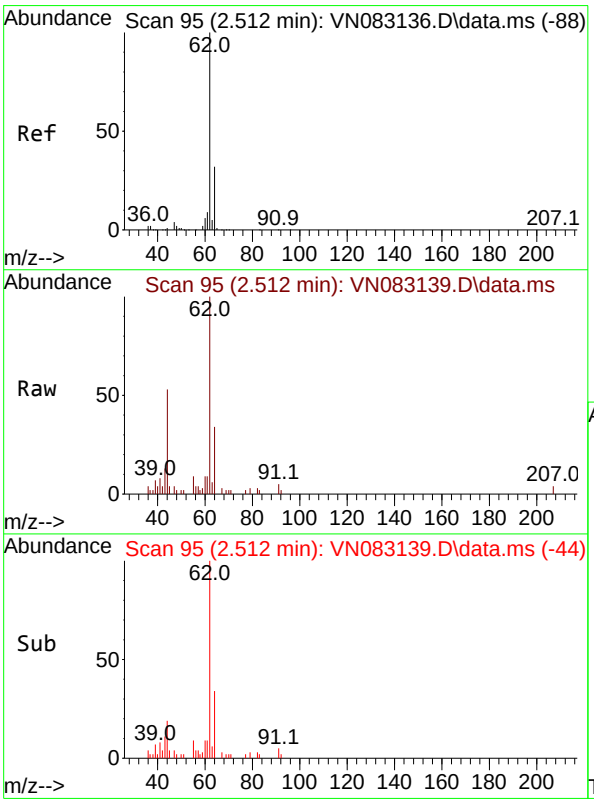
Ion	Ratio	Lower	Upper
50	100		
52	32.7	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

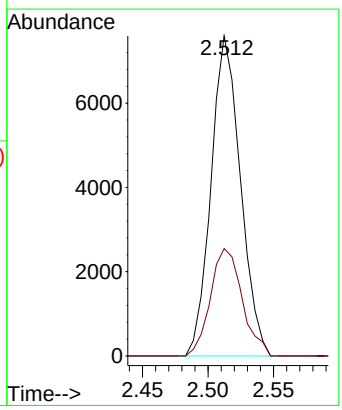
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

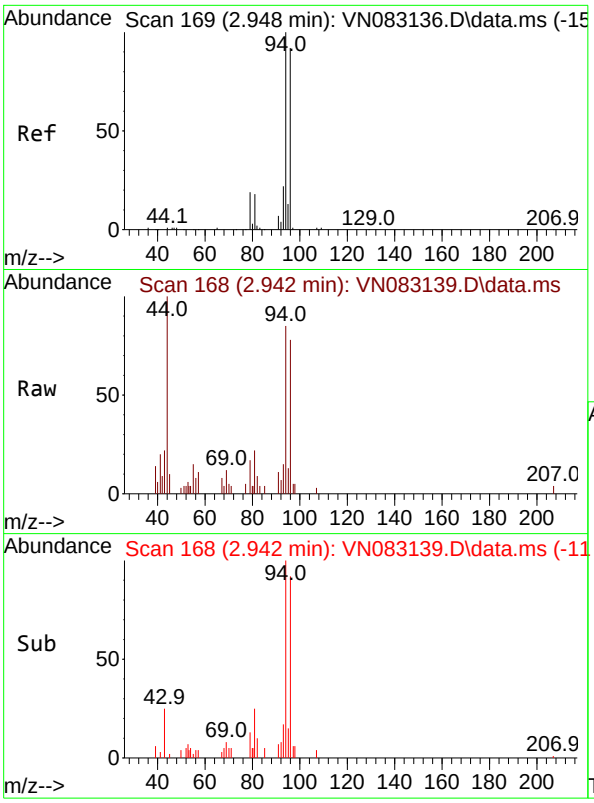


#4
Vinyl Chloride
Concen: 4.950 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 62 Resp: 11837

Ion	Ratio	Lower	Upper
62	100		
64	33.6	25.0	37.6

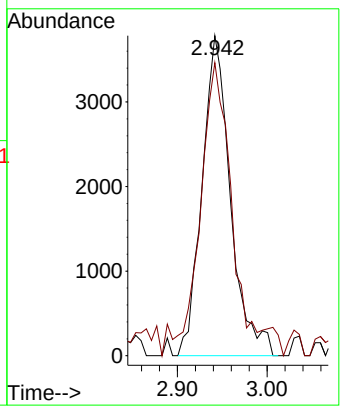




#5
Bromomethane
Concen: 5.612 ug/l
RT: 2.942 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 94 Resp: 832

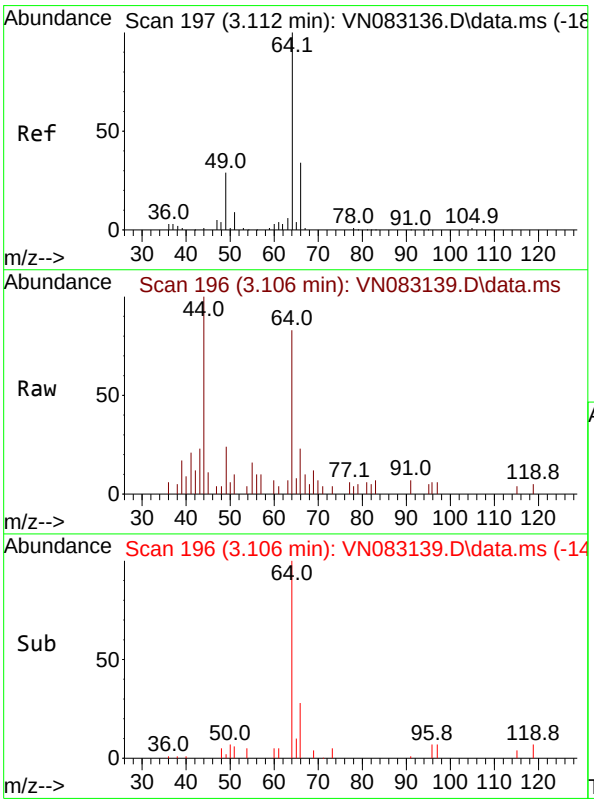
Ion	Ratio	Lower	Upper
94	100		
96	85.3	78.0	117.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

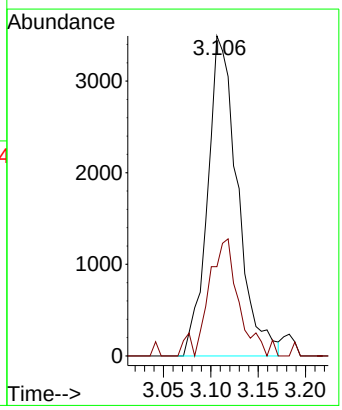
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

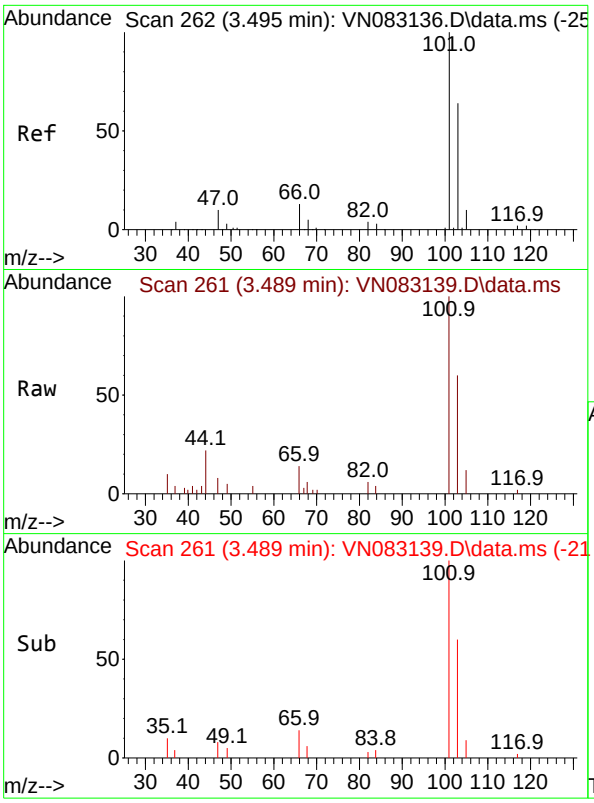


#6
Chloroethane
Concen: 5.139 ug/l
RT: 3.106 min Scan# 196
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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# 2
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

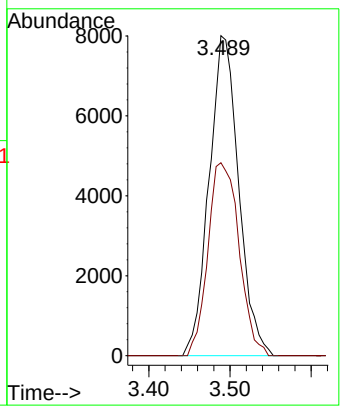
Tgt Ion:101 Resp: 2024

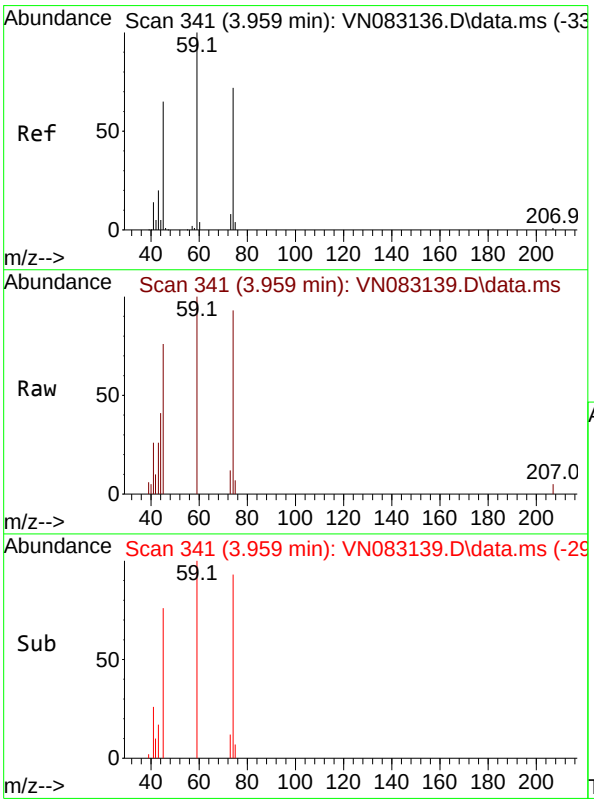
Ion	Ratio	Lower	Upper
101	100		
103	60.3	52.7	79.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

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

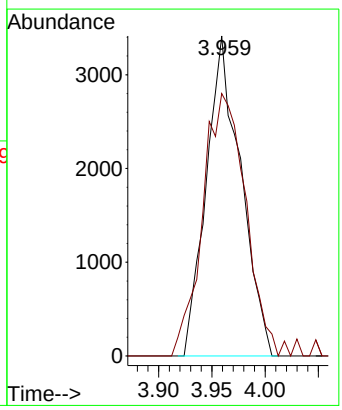


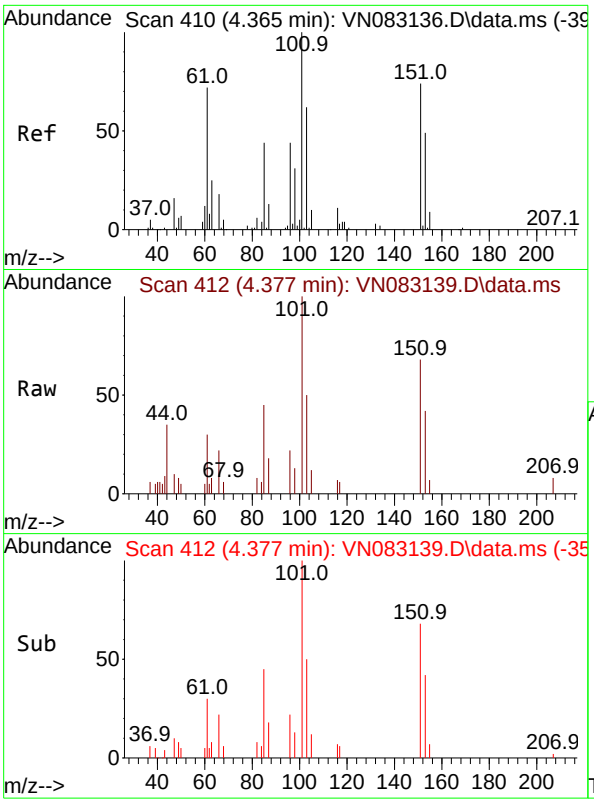


#8
Diethyl Ether
Concen: 5.220 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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# 41
Delta R.T. 0.012 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

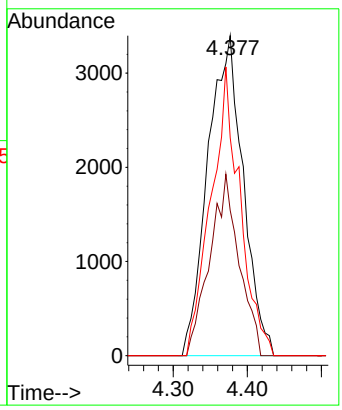
Tgt Ion:101 Resp: 1126

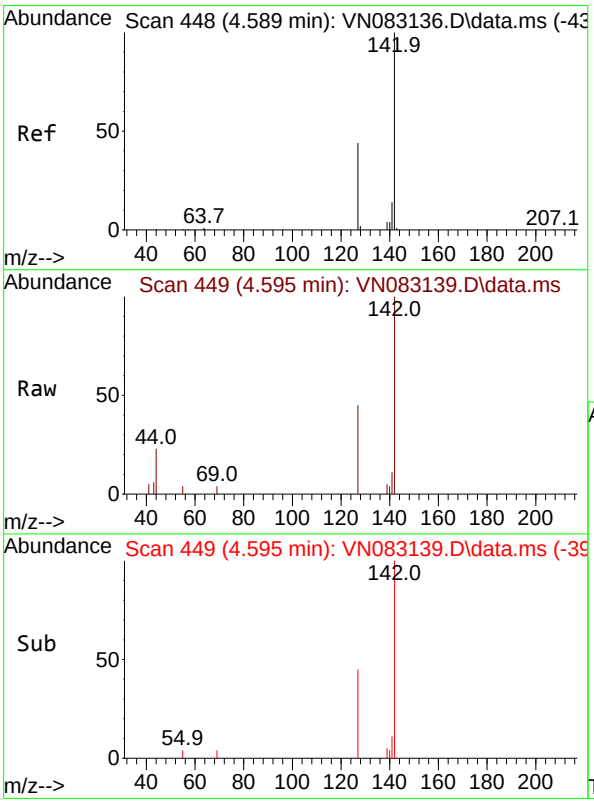
Ion	Ratio	Lower	Upper
101	100		
85	47.2	38.3	57.5
151	74.4	59.3	88.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

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

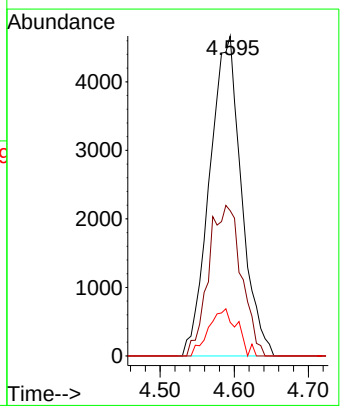


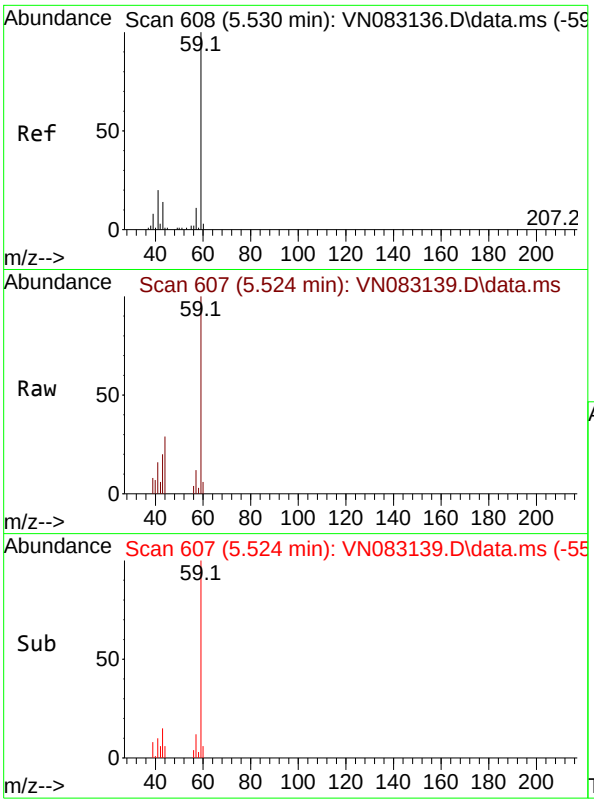


#10
Methyl Iodide
Concen: 4.844 ug/l
RT: 4.595 min Scan# 449
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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#

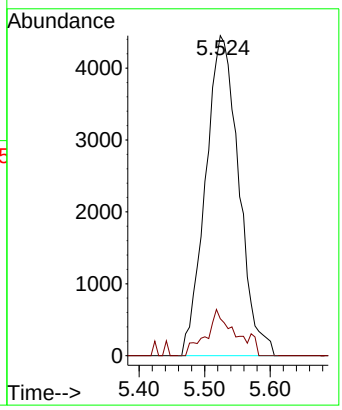




#11
Tert butyl alcohol
Concen: 26.268 ug/l
RT: 5.524 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 59 Resp: 1568

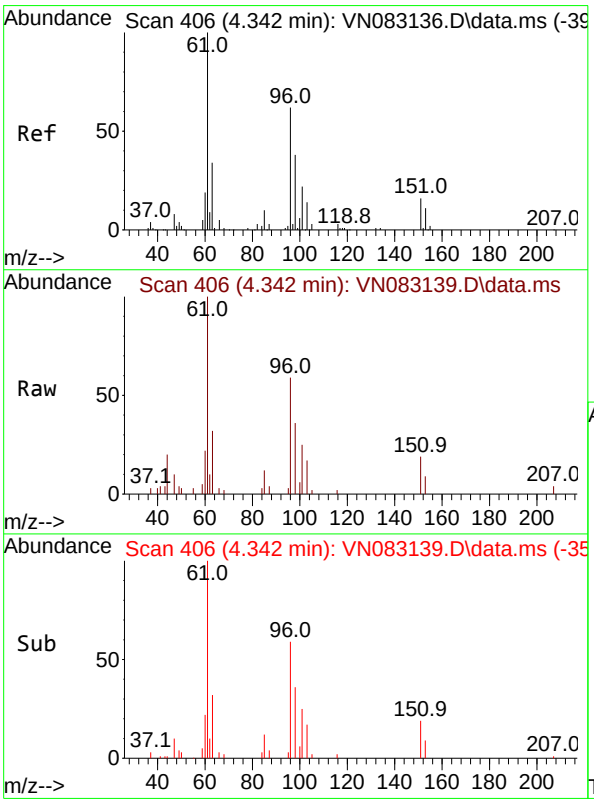
Ion	Ratio	Lower	Upper
59	100		
57	11.4	8.9	13.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

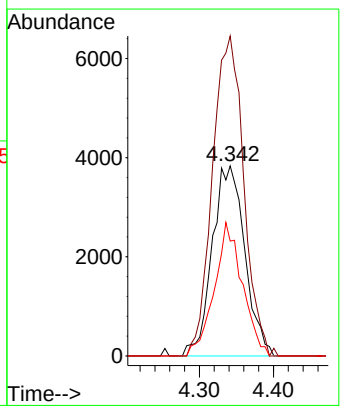
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

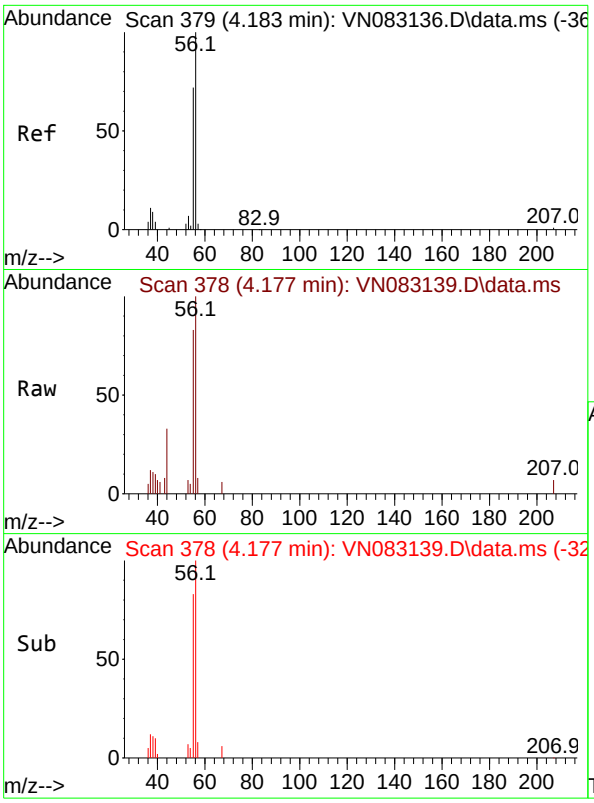


#12
1,1-Dichloroethene
Concen: 5.237 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

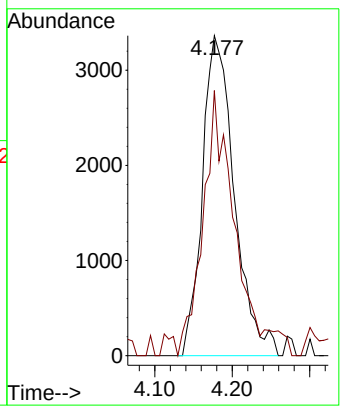




#13
Acrolein
Concen: 24.707 ug/l
RT: 4.177 min Scan# 3
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 56 Resp: 961

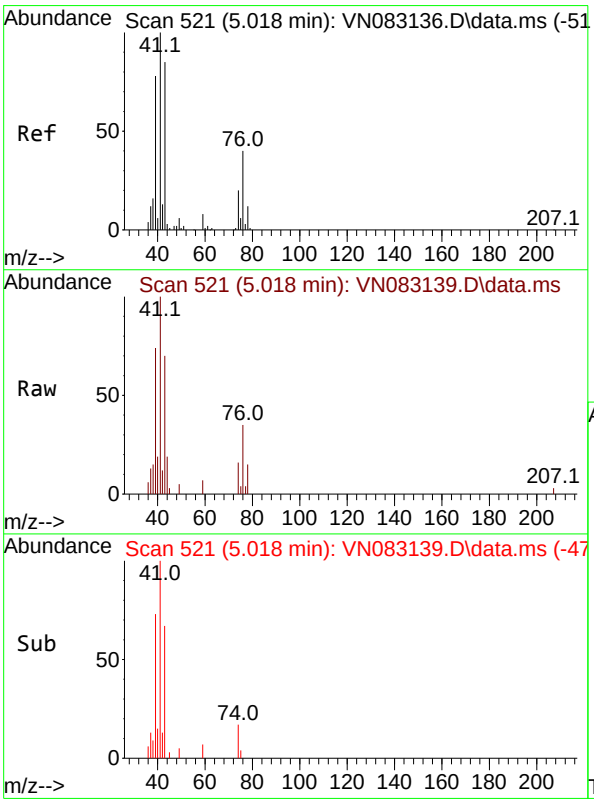
Ion	Ratio	Lower	Upper
56	100		
55	80.0	56.4	84.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

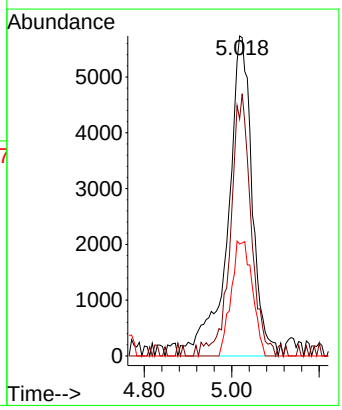
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

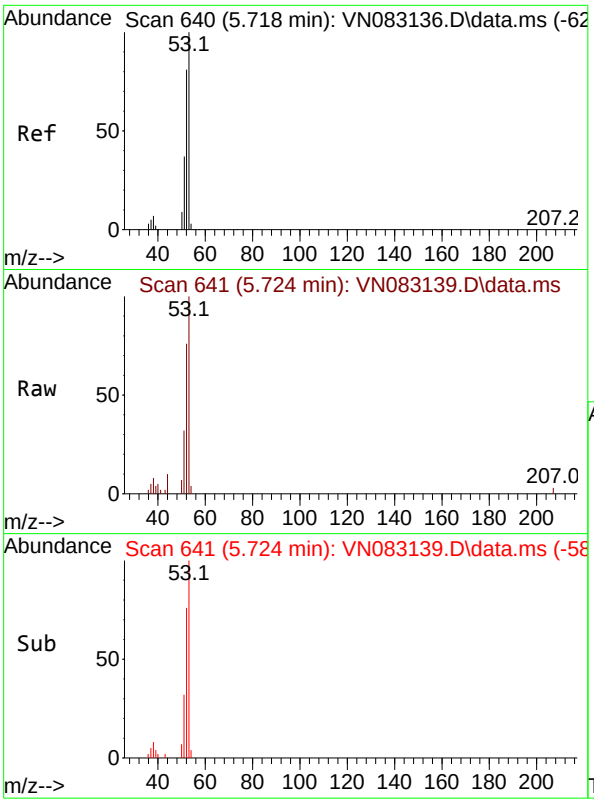


#14
Allyl chloride
Concen: 5.246 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

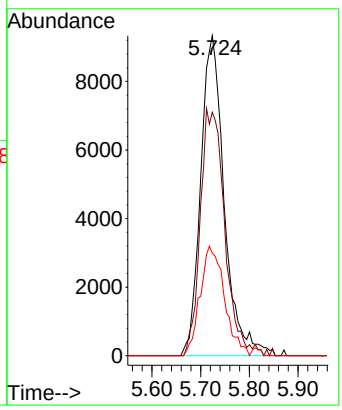




#15
Acrylonitrile
Concen: 25.534 ug/l
RT: 5.724 min Scan# 64
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 53 Resp: 3135

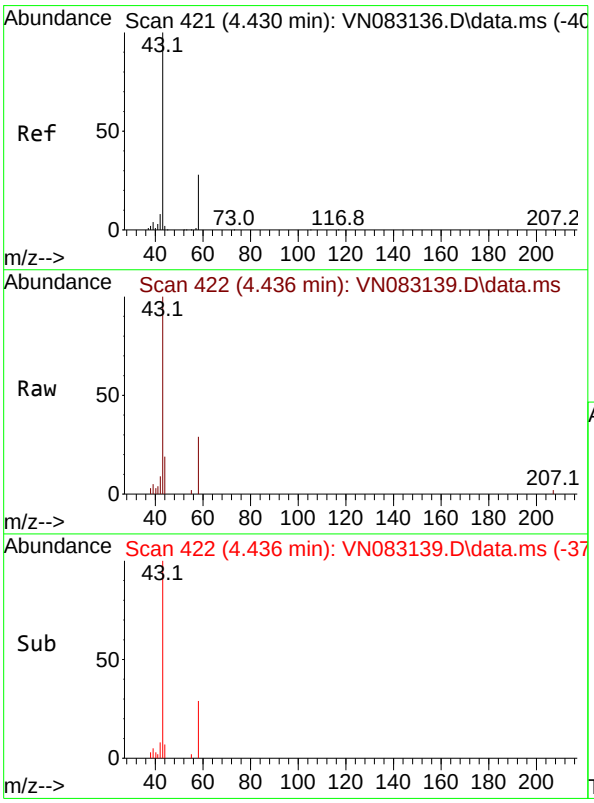
Ion	Ratio	Lower	Upper
53	100		
52	79.9	66.6	100.0
51	35.3	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

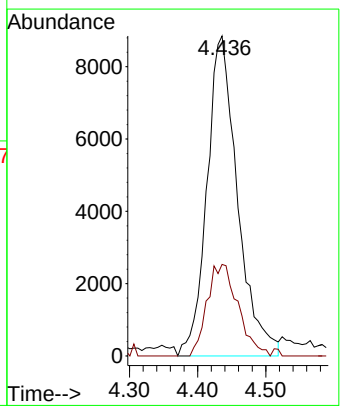
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

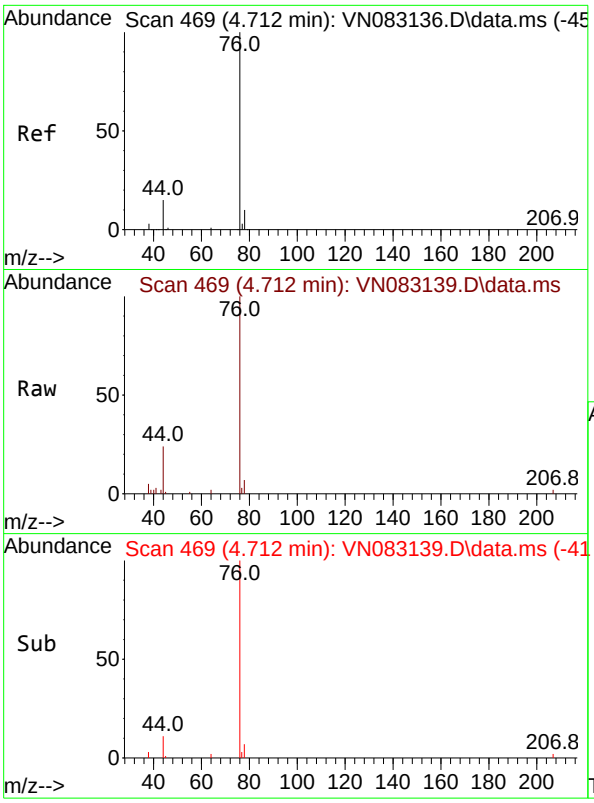


#16
Acetone
Concen: 24.581 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 43 Resp: 27636

Ion	Ratio	Lower	Upper
43	100		
58	28.6	21.8	32.6

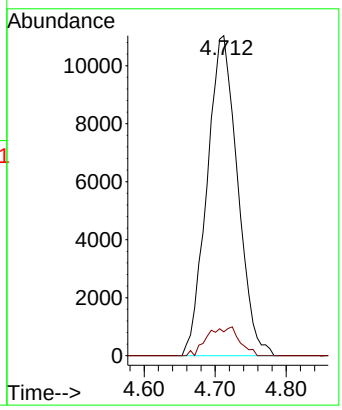




#17
Carbon Disulfide
Concen: 5.026 ug/l
RT: 4.712 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 76 Resp: 3290

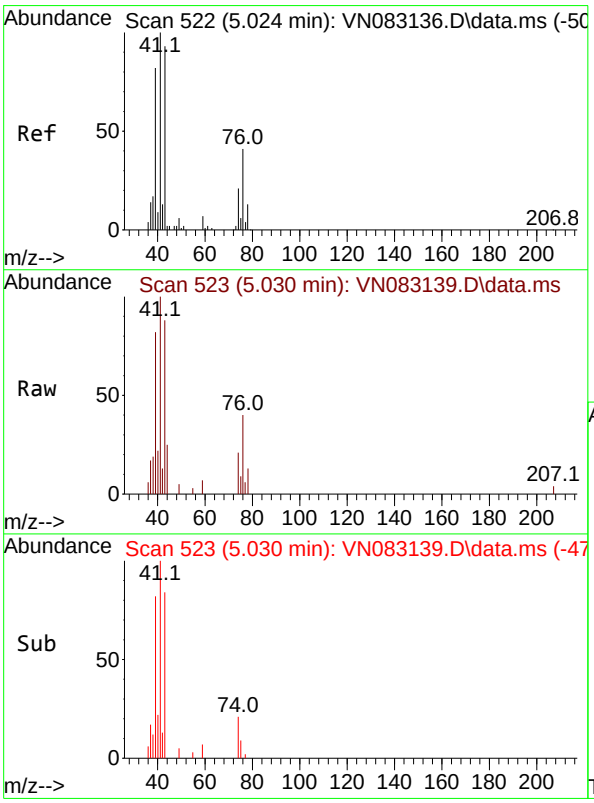
Ion	Ratio	Lower	Upper
76	100		
78	7.4	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

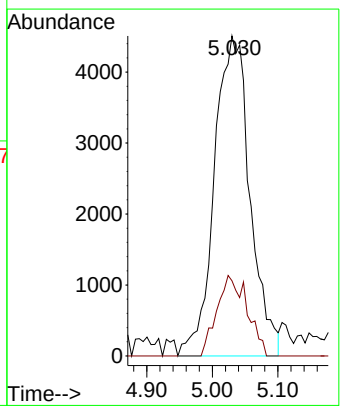
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

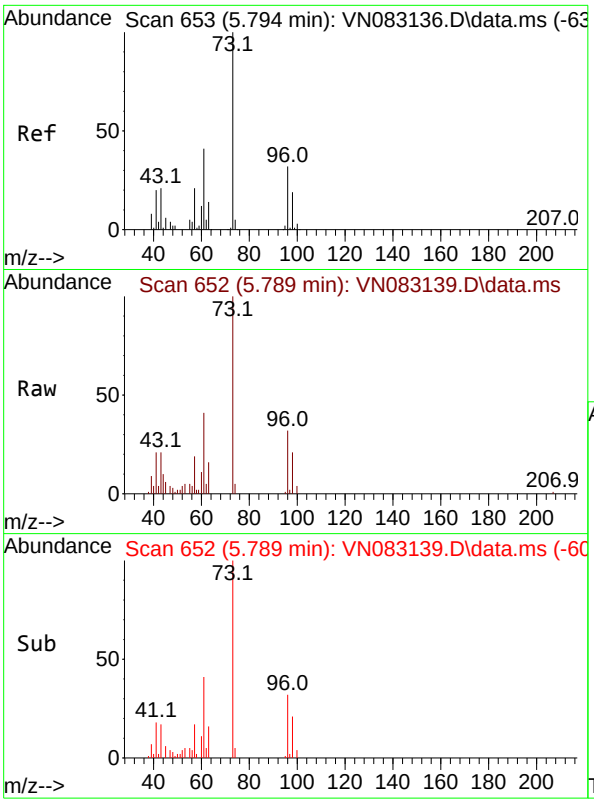


#18
Methyl Acetate
Concen: 5.084 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 43 Resp: 17029

Ion	Ratio	Lower	Upper
43	100		
74	21.4	16.3	24.5

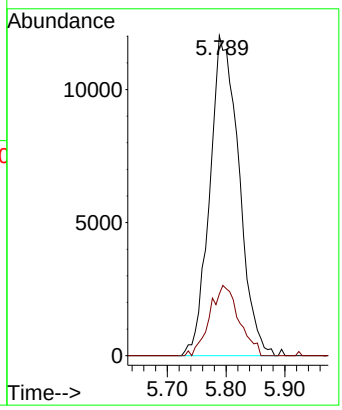




#19
Methyl tert-butyl Ether
Concen: 5.131 ug/l
RT: 5.789 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 73 Resp: 4143

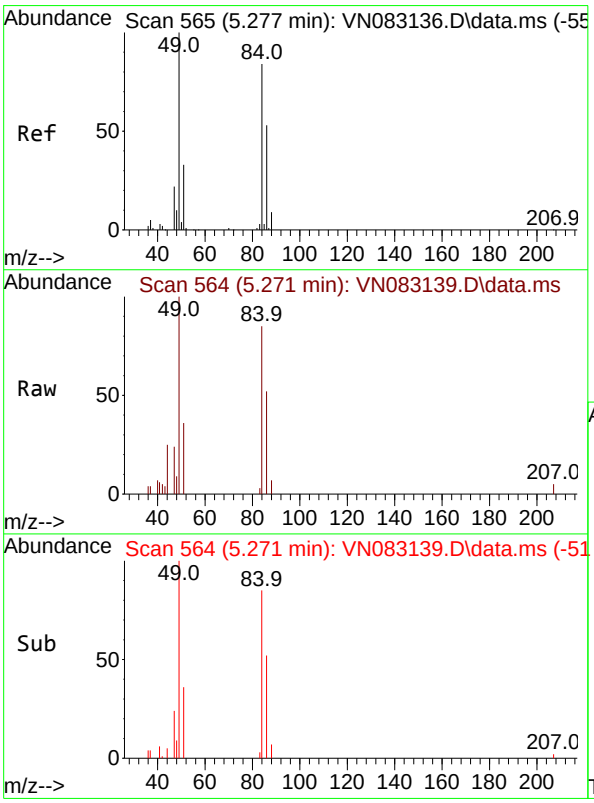
Ion	Ratio	Lower	Upper
73	100		
57	19.2	17.9	26.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

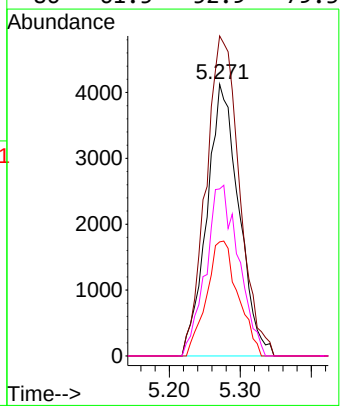
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

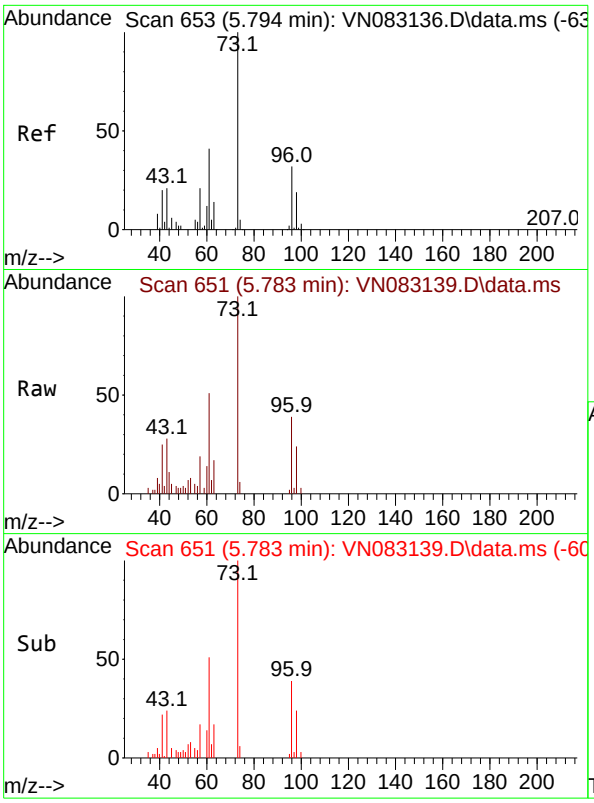


#20
Methylene Chloride
Concen: 4.991 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

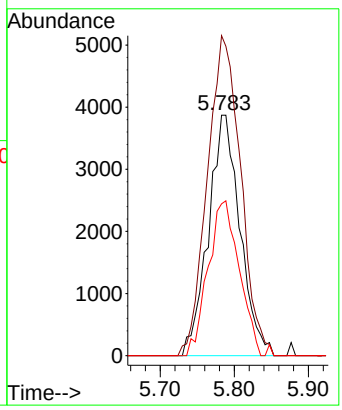




#21
trans-1,2-Dichloroethene
Concen: 4.957 ug/l
RT: 5.783 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 96 Resp: 1146

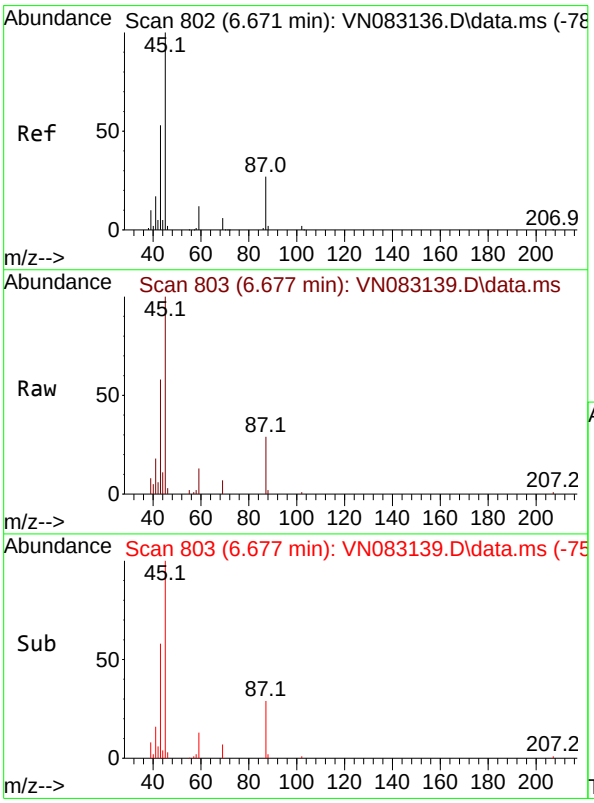
Ion	Ratio	Lower	Upper
96	100		
61	133.0	123.4	185.2
98	63.1	49.3	73.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

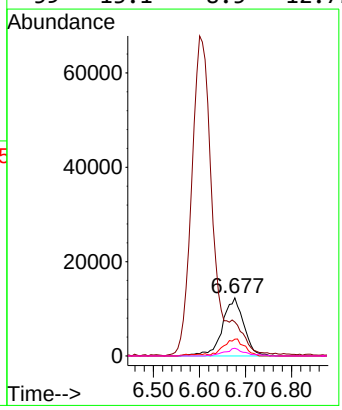
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

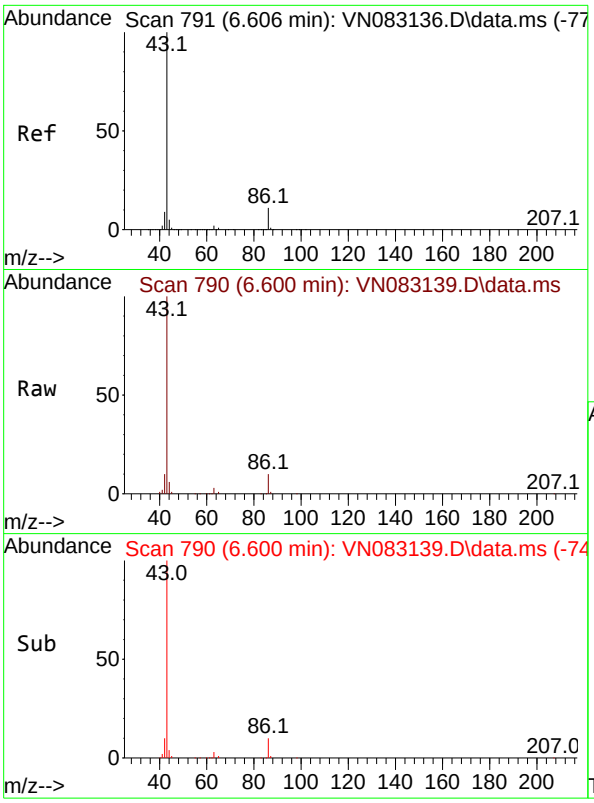


#22
Diisopropyl ether
Concen: 4.993 ug/l
RT: 6.677 min Scan# 803
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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#

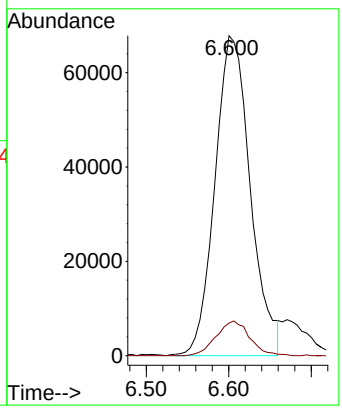




#23
Vinyl Acetate
Concen: 24.856 ug/l m
RT: 6.600 min Scan# 7
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 43 Resp: 20247

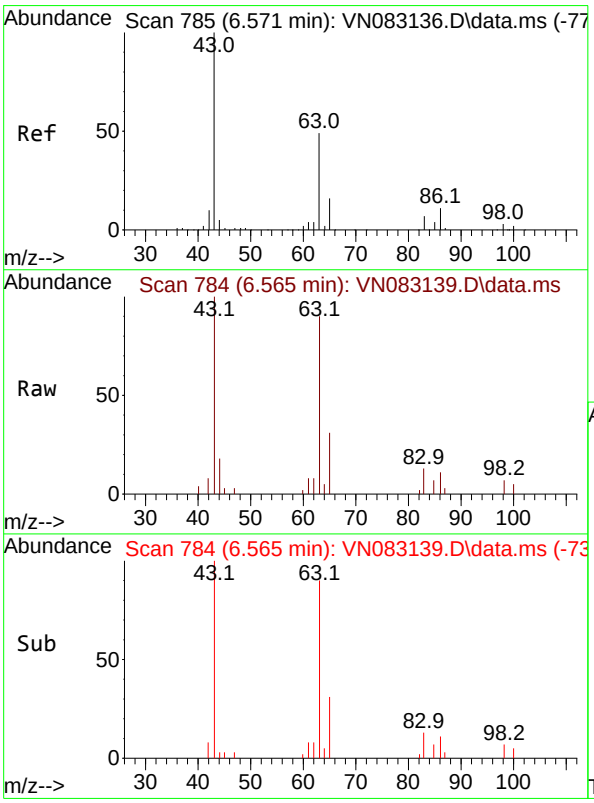
Ion	Ratio	Lower	Upper
43	100		
86	10.2	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

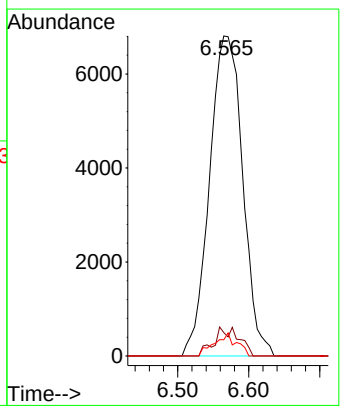
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

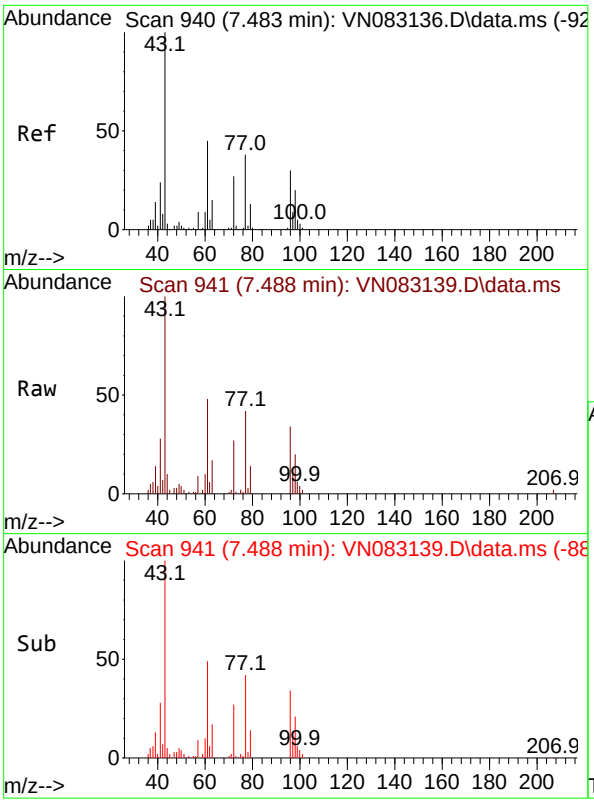


#24
1,1-Dichloroethane
Concen: 5.091 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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# 94
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

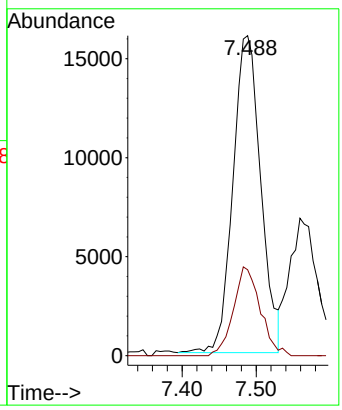
Tgt Ion: 43 Resp: 4175(

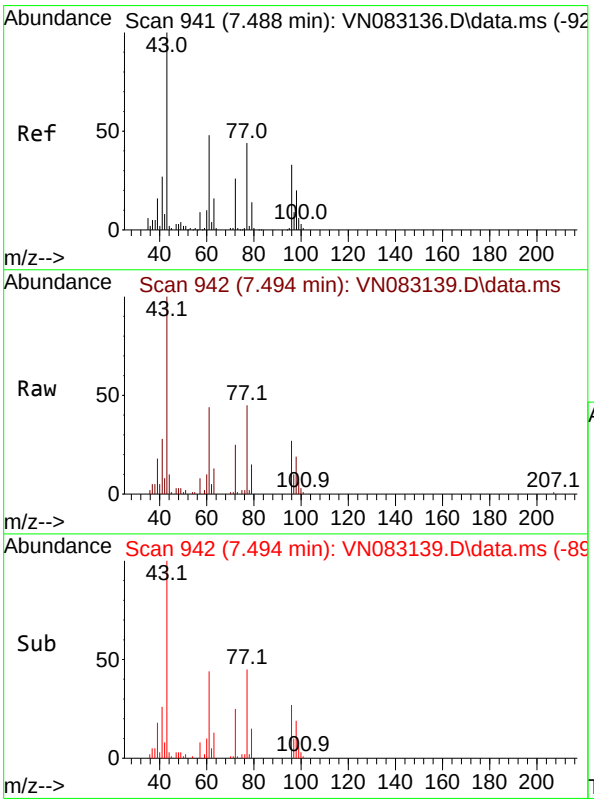
Ion	Ratio	Lower	Upper
43	100		
72	27.1	18.2	27.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

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

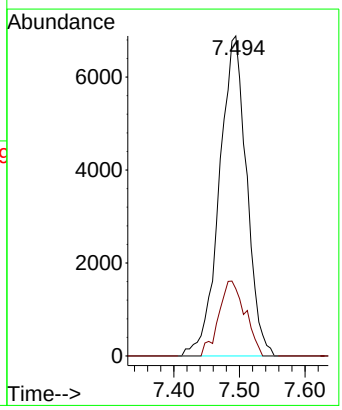


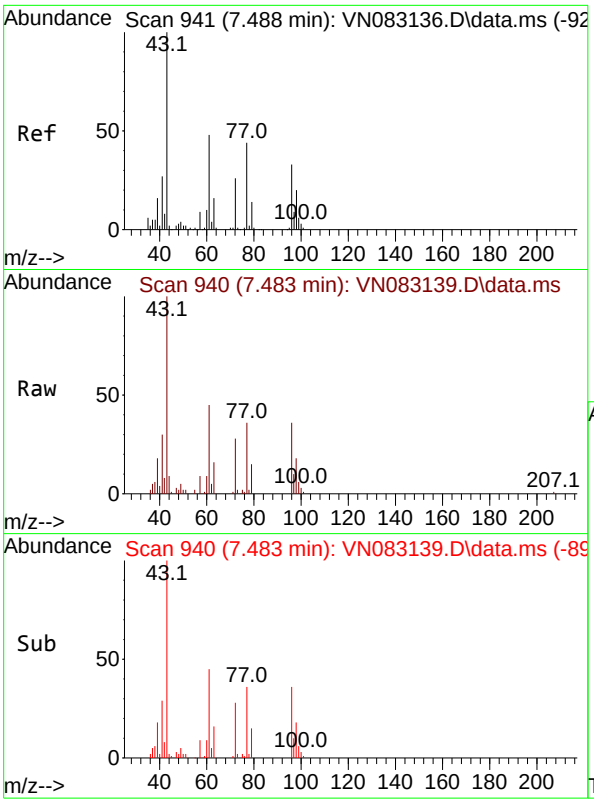


#26
2,2-Dichloropropane
Concen: 4.937 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 77 Resp: 19864

Ion	Ratio	Lower	Upper
77	100		
97	22.7	10.3	30.9

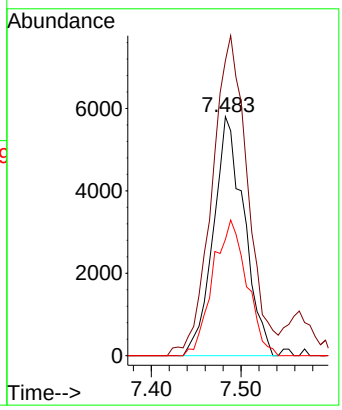




#27
cis-1,2-Dichloroethene
Concen: 4.967 ug/l
RT: 7.483 min Scan# 94
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 96 Resp: 1386

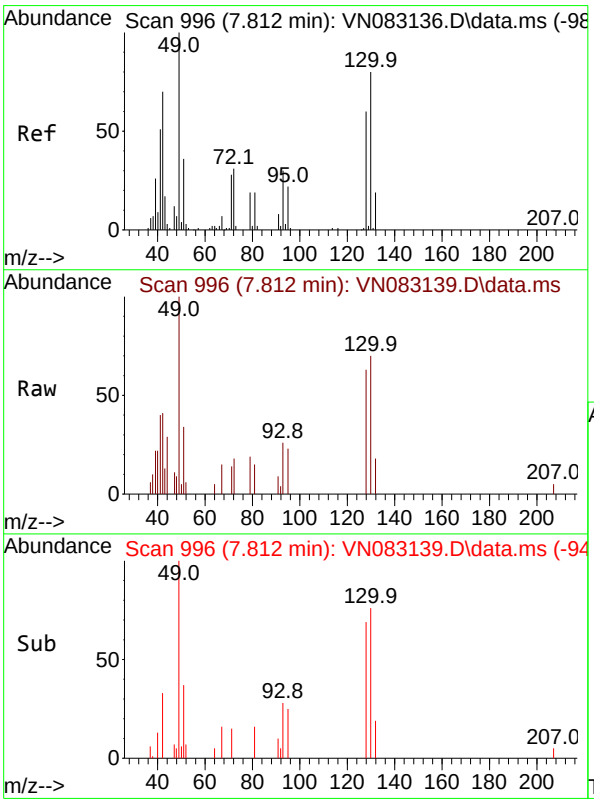
Ion	Ratio	Lower	Upper
96	100		
61	154.7	0.0	329.6
98	62.6	0.0	128.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

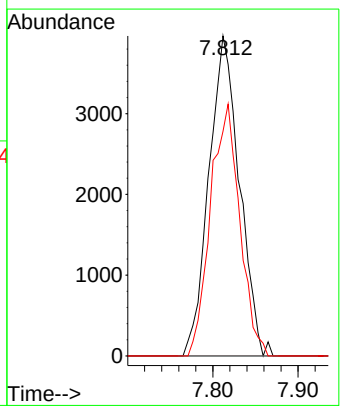
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

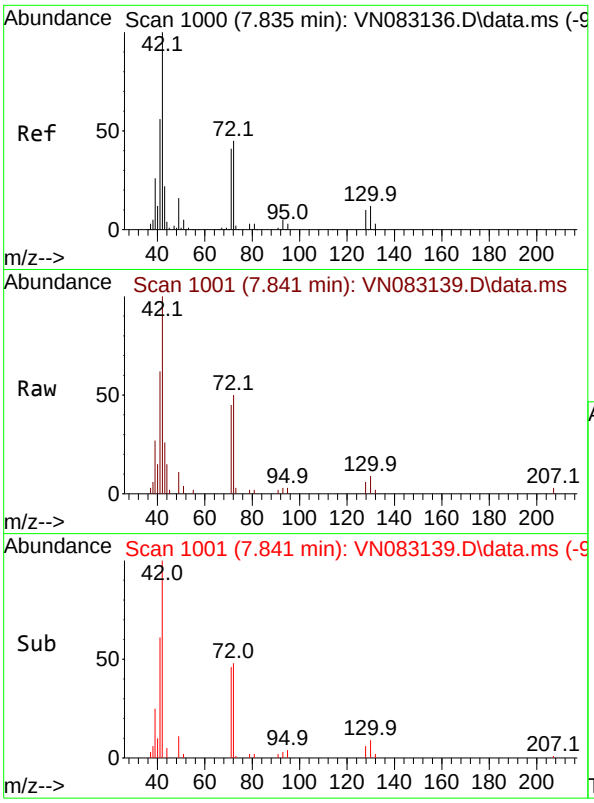


#28
Bromochloromethane
Concen: 5.577 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

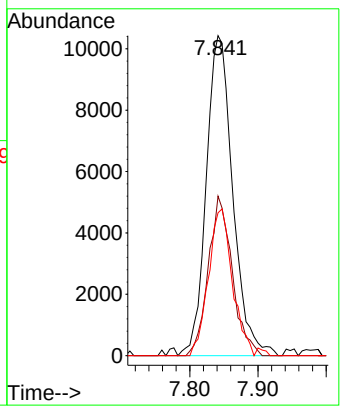




#29
Tetrahydrofuran
Concen: 25.324 ug/l
RT: 7.841 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 42 Resp: 2826

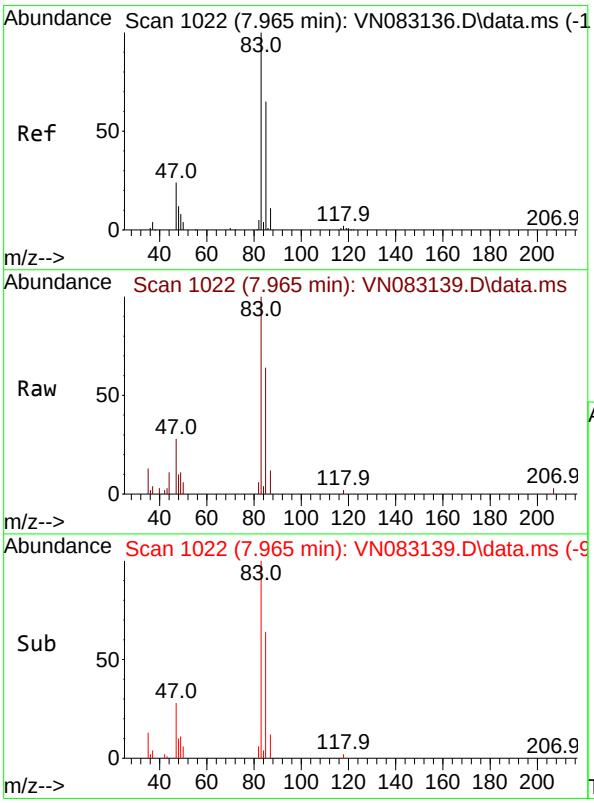
Ion	Ratio	Lower	Upper
42	100		
72	44.9	30.0	45.0
71	41.3	28.3	42.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

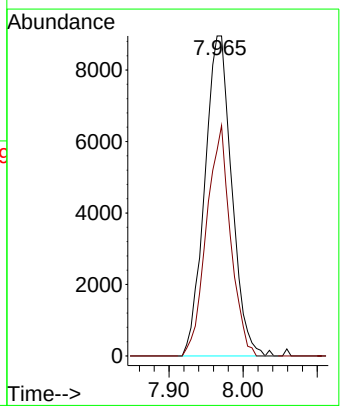
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

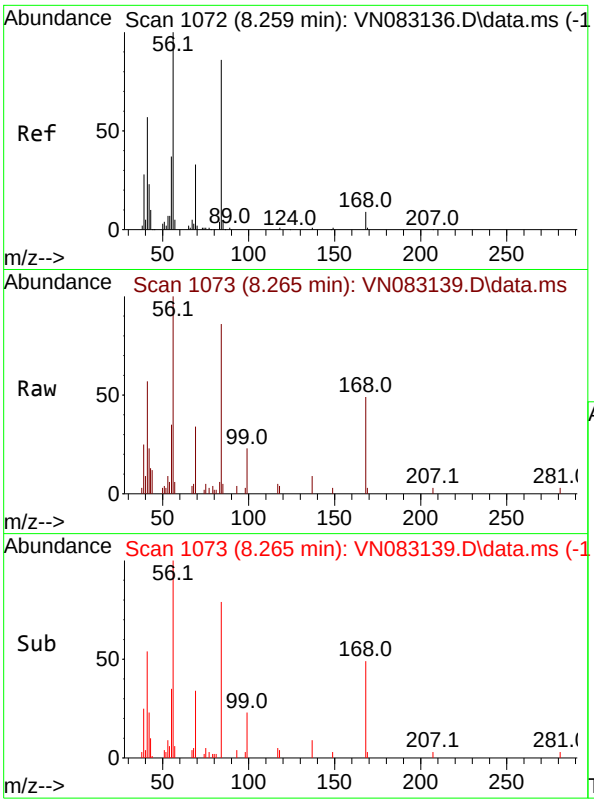


#30
Chloroform
Concen: 5.032 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 83 Resp: 22650

Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.9	76.3

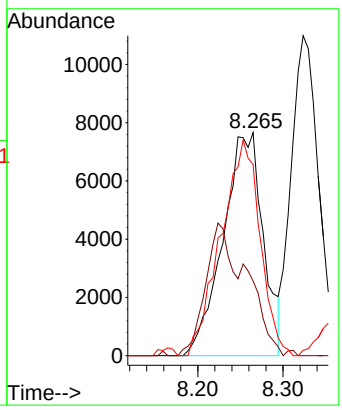




#31
Cyclohexane
Concen: 5.871 ug/l
RT: 8.265 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 56 Resp: 2499

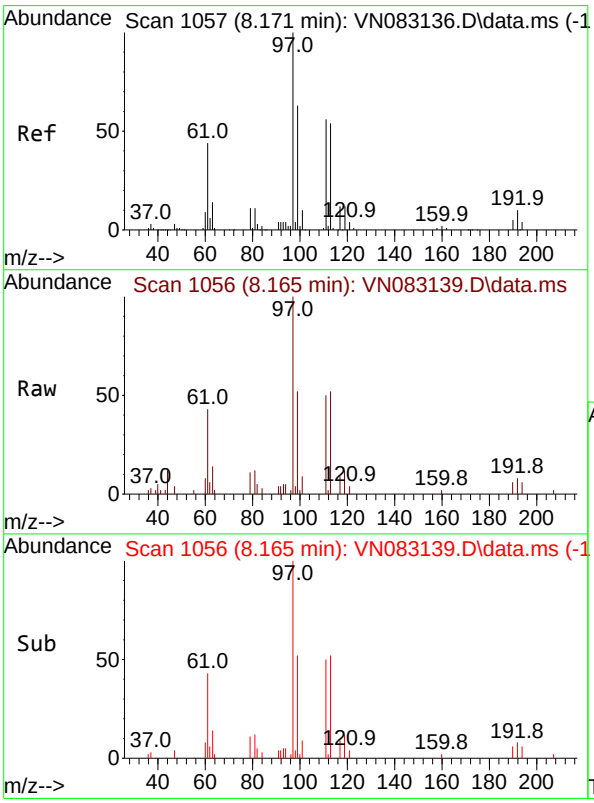
Ion	Ratio	Lower	Upper
56	100		
69	33.5	24.5	36.7
84	85.8	66.0	99.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

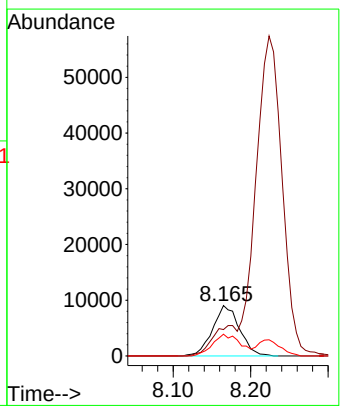
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

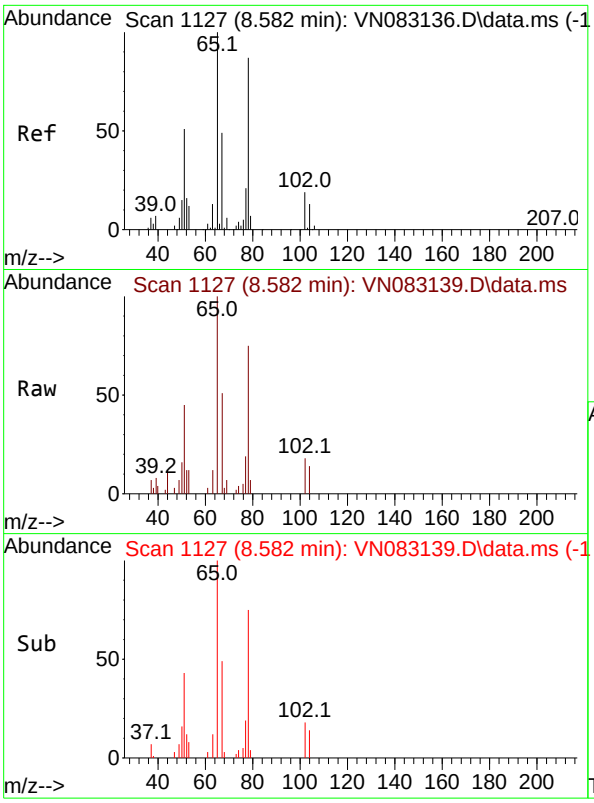


#32
1,1,1-Trichloroethane
Concen: 5.123 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

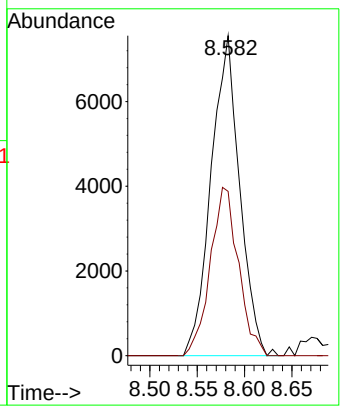
Tgt Ion: 65 Resp: 1586

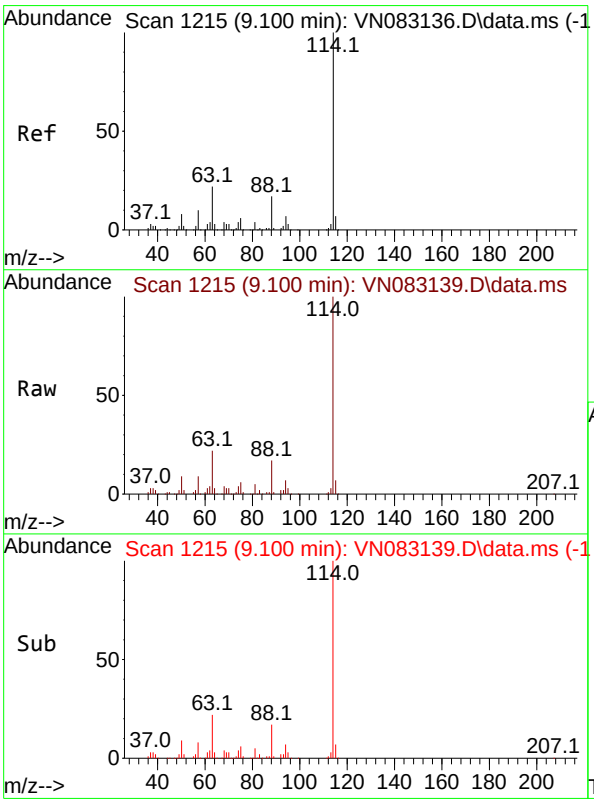
Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	104.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

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

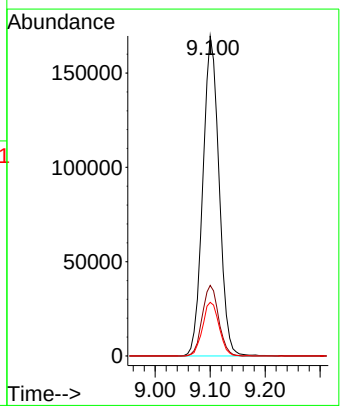


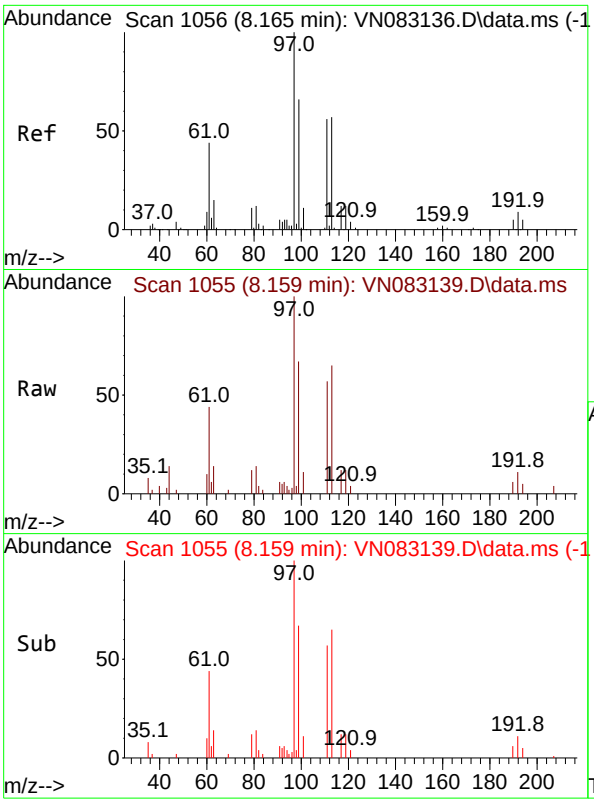


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

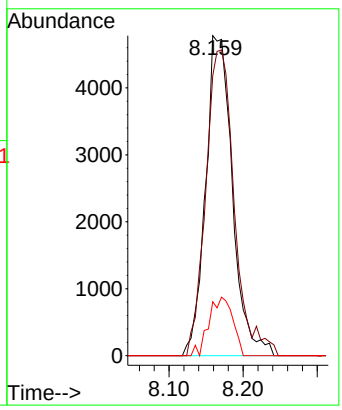




#35
Dibromofluoromethane
Concen: 5.549 ug/l
RT: 8.159 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:113 Resp: 1203

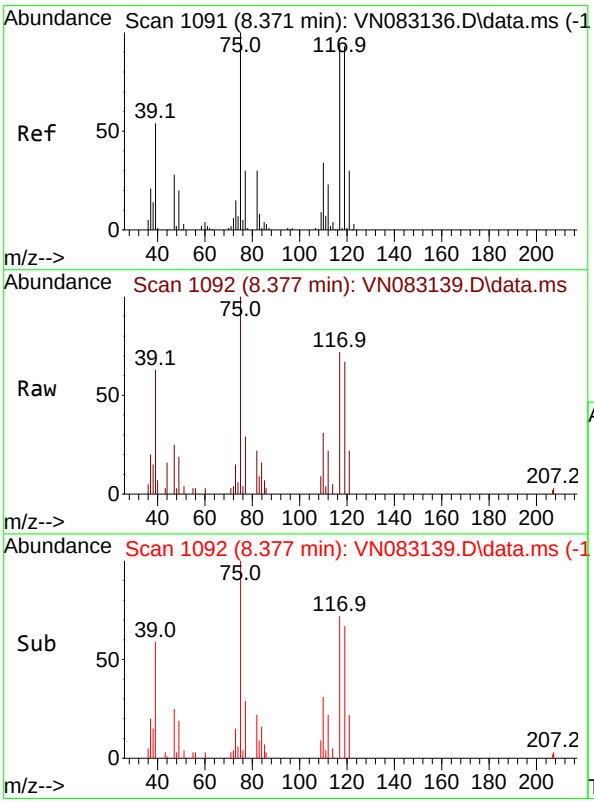
Ion	Ratio	Lower	Upper
113	100		
111	101.4	82.4	123.6
192	16.2	14.9	22.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

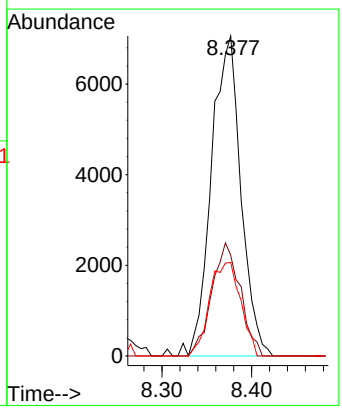
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

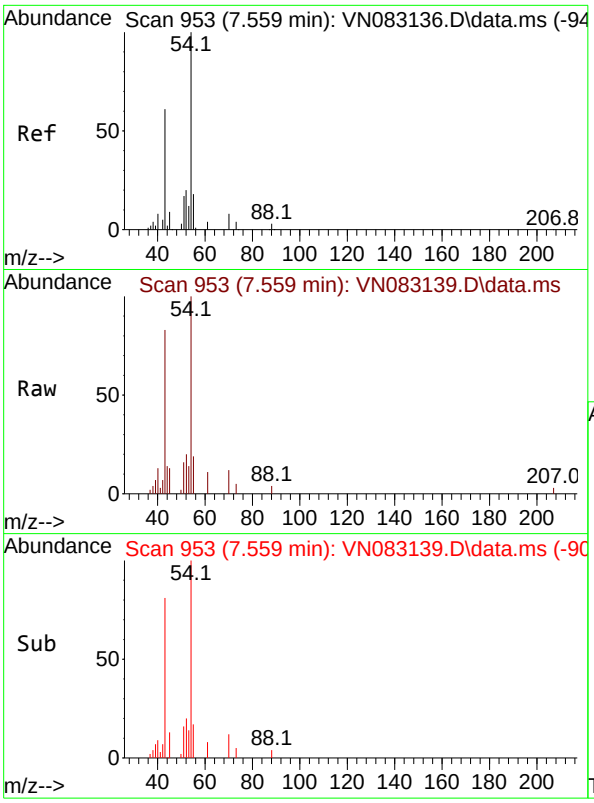


#36
1,1-Dichloropropene
Concen: 4.907 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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# 9
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

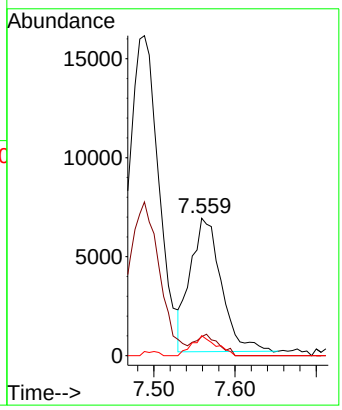
Tgt Ion: 43 Resp: 1790

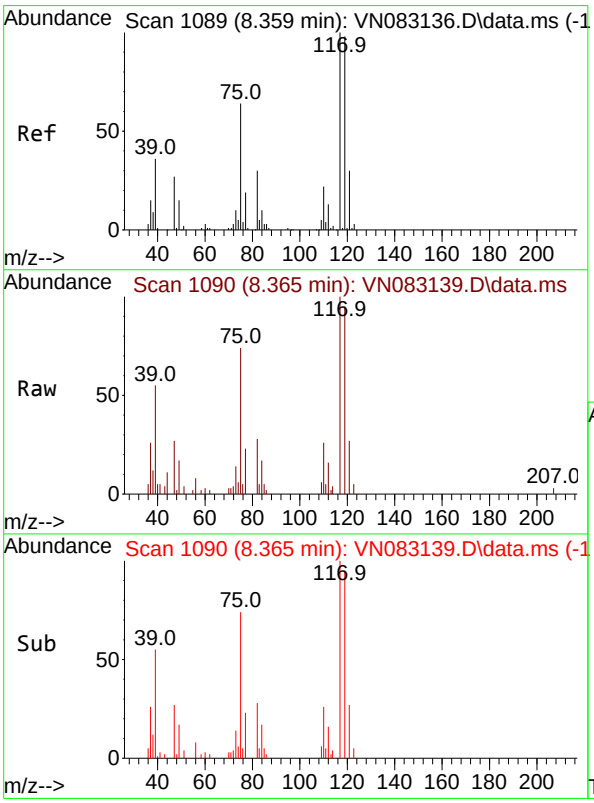
Ion	Ratio	Lower	Upper
43	100		
61	12.1	9.3	13.9
70	11.6	7.0	10.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

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

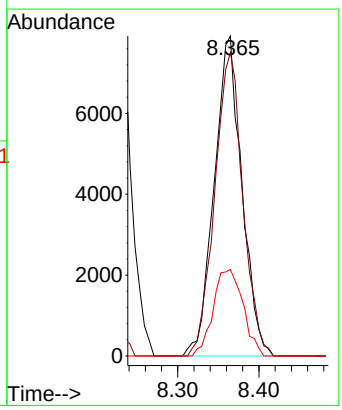


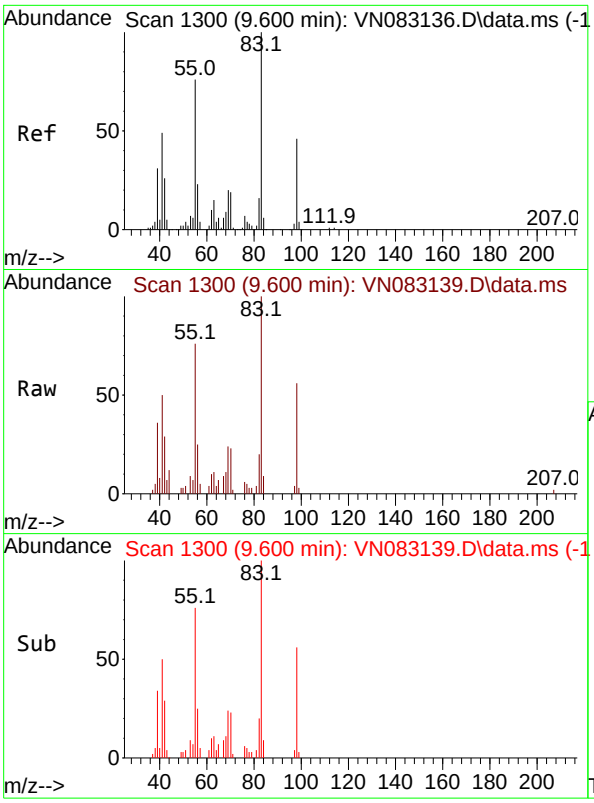


#38
Carbon Tetrachloride
Concen: 5.067 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

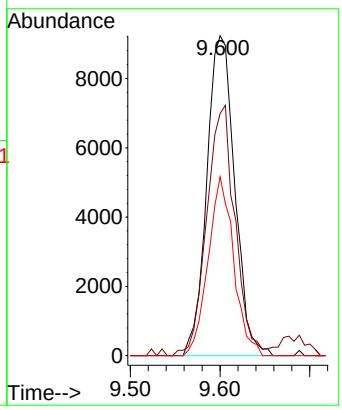




#39
Methylcyclohexane
Concen: 4.957 ug/l
RT: 9.600 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 83 Resp: 1998

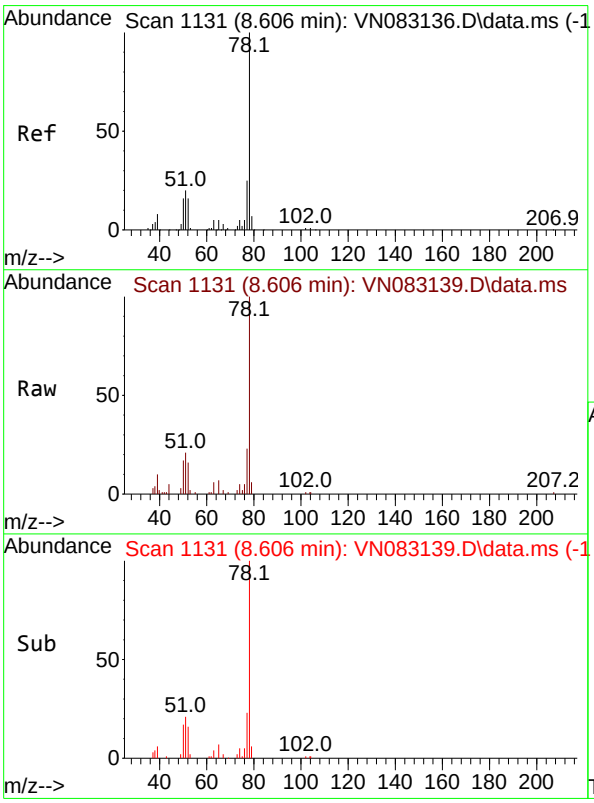
Ion	Ratio	Lower	Upper
83	100		
55	74.1	66.4	99.6
98	55.9	40.7	61.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

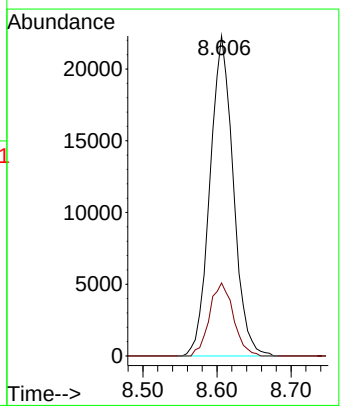
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

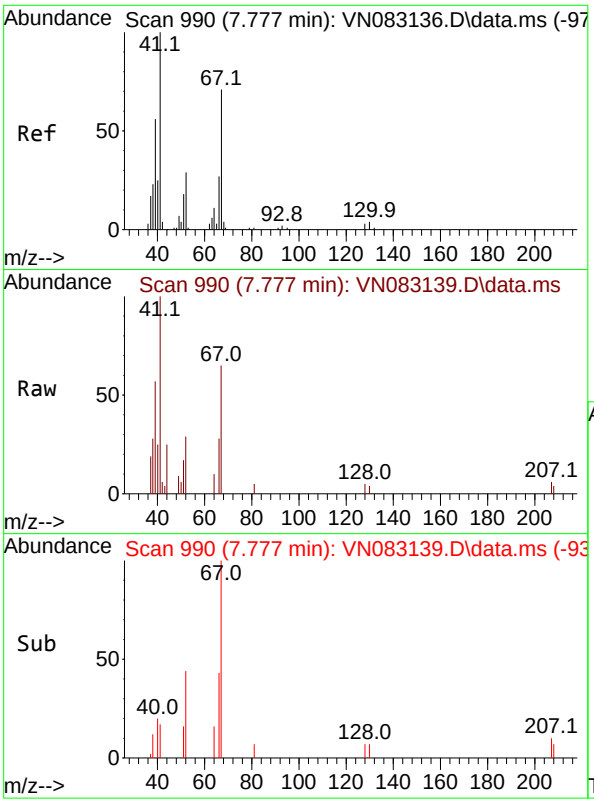


#40
Benzene
Concen: 4.988 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 78 Resp: 48765

Ion	Ratio	Lower	Upper
78	100		
77	22.8	19.0	28.4

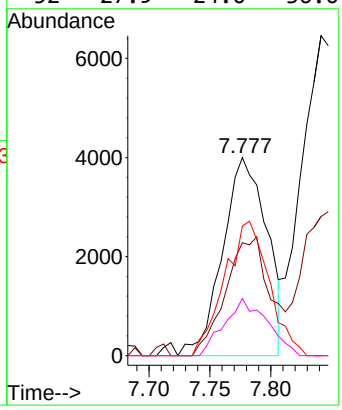




#41
Methacrylonitrile
Concen: 4.828 ug/l
RT: 7.777 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 41 Resp: 1008

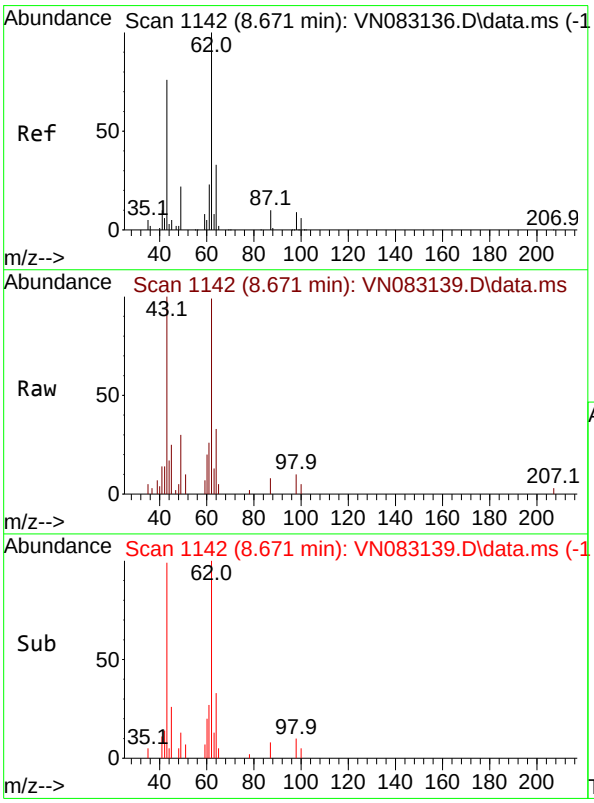
Ion	Ratio	Lower	Upper
41	100		
39	60.2	45.5	68.3
67	68.2	50.5	75.7
52	27.9	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

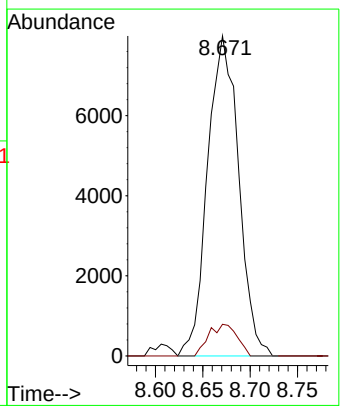
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

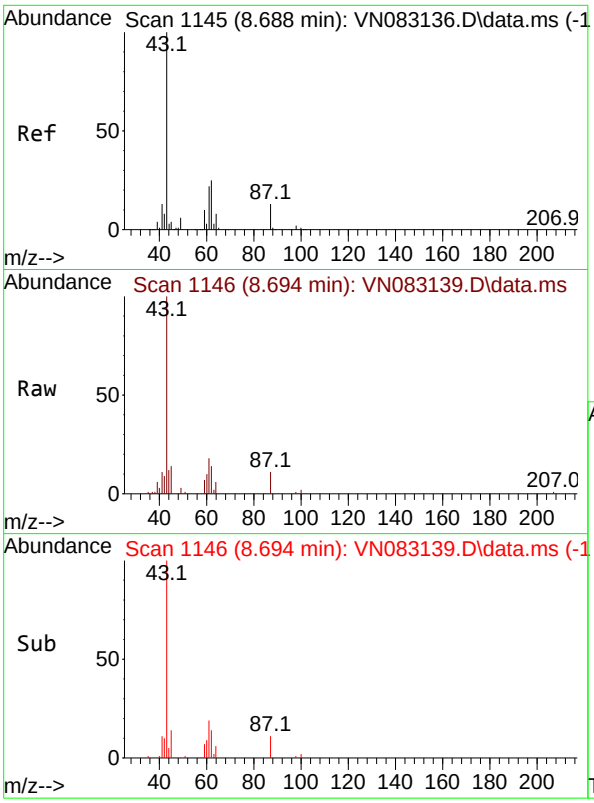


#42
1,2-Dichloroethane
Concen: 5.116 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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# 1
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

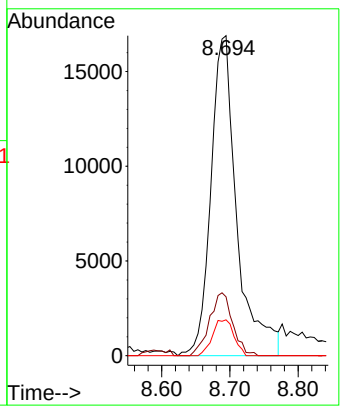
Tgt Ion: 43 Resp: 4481

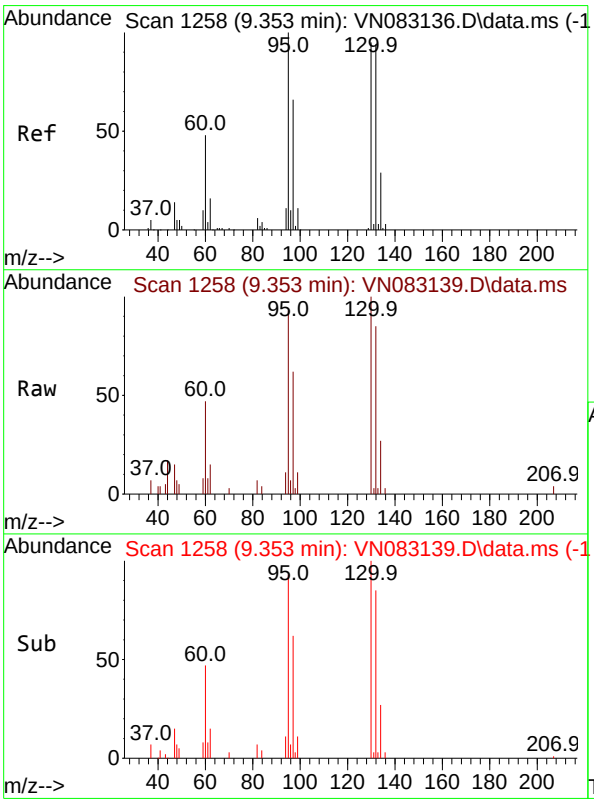
Ion	Ratio	Lower	Upper
43	100		
61	17.5	17.8	26.6
87	9.2	8.2	12.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

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

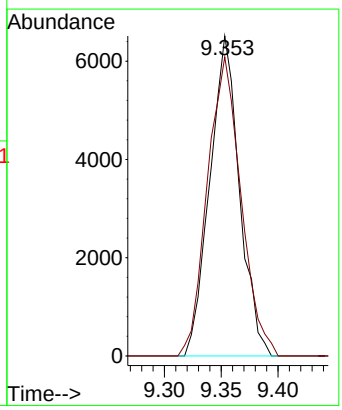


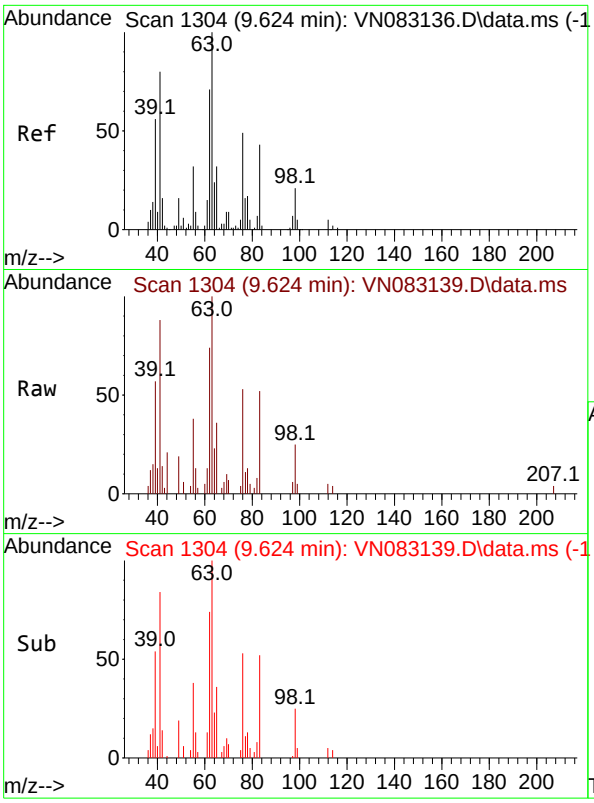


#44
Trichloroethene
Concen: 5.084 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:130 Resp: 11830

Ion	Ratio	Lower	Upper
130	100		
95	93.4	0.0	197.8

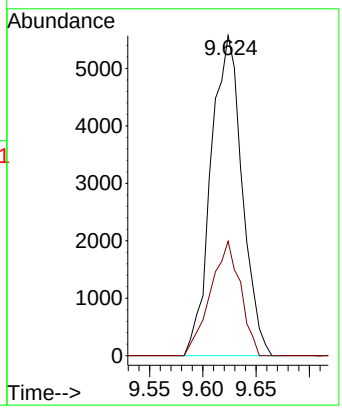




#45
1,2-Dichloropropane
Concen: 4.878 ug/l
RT: 9.624 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 63 Resp: 1132

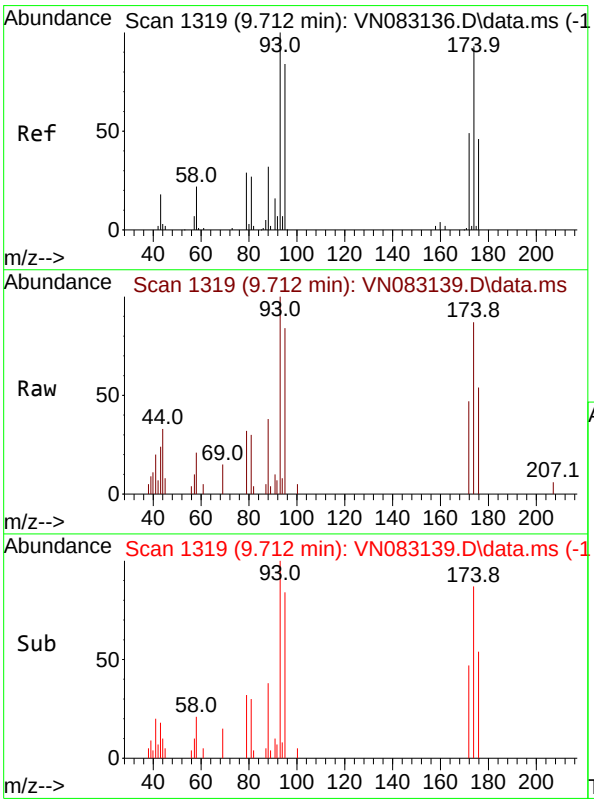
Ion	Ratio	Lower	Upper
63	100		
65	35.7	24.4	36.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

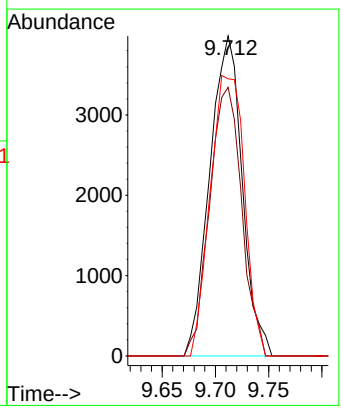
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

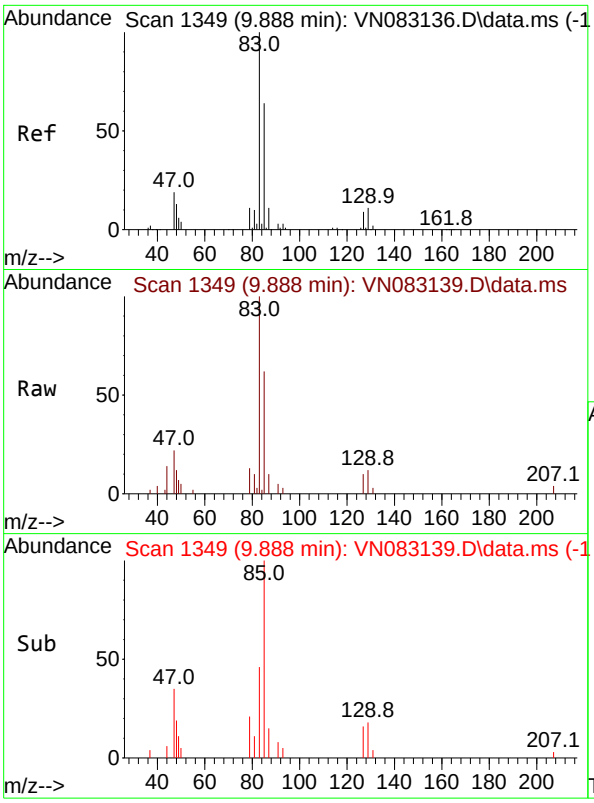


#46
Dibromomethane
Concen: 5.079 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

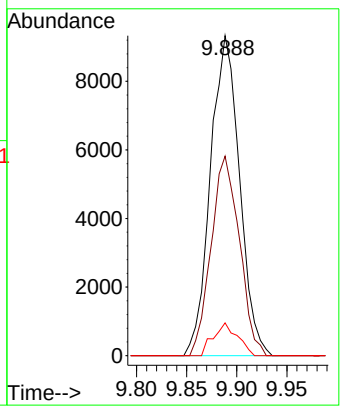




#47
Bromodichloromethane
Concen: 5.040 ug/l
RT: 9.888 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 83 Resp: 1879

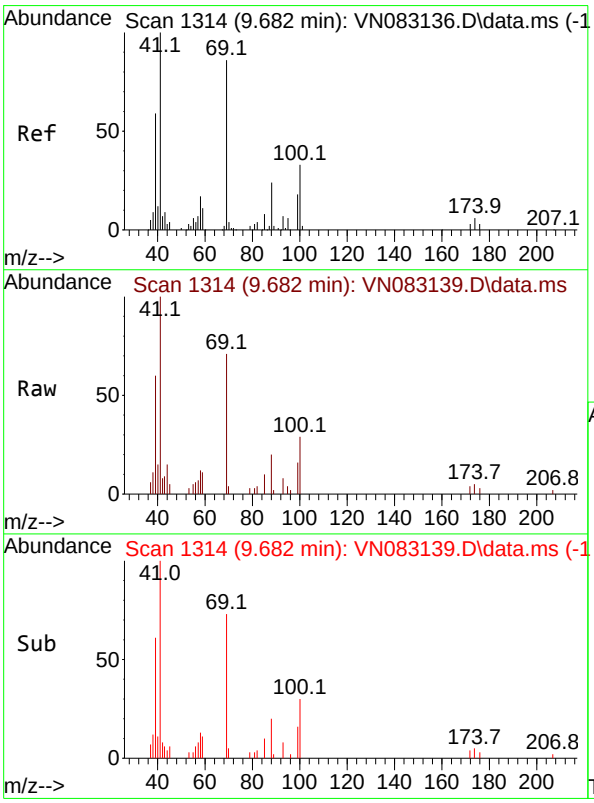
Ion	Ratio	Lower	Upper
83	100		
85	62.3	51.1	76.7
127	10.3	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

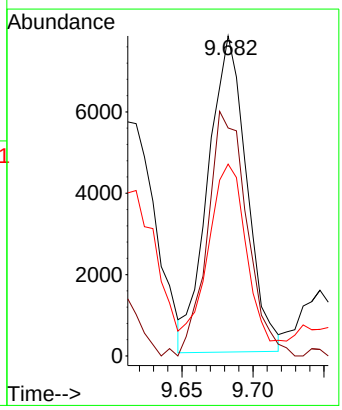
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

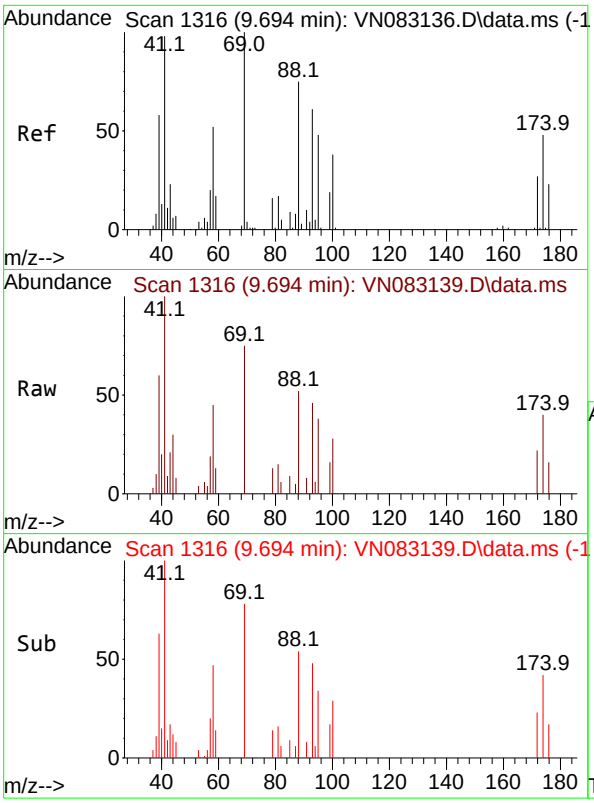


#48
Methyl methacrylate
Concen: 4.840 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

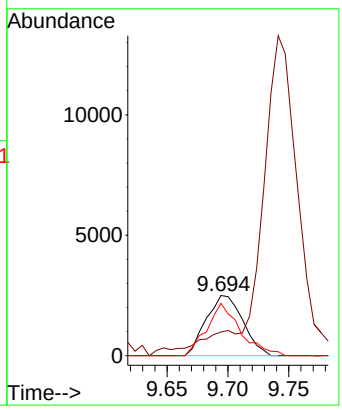
Tgt Ion: 88 Resp: 523

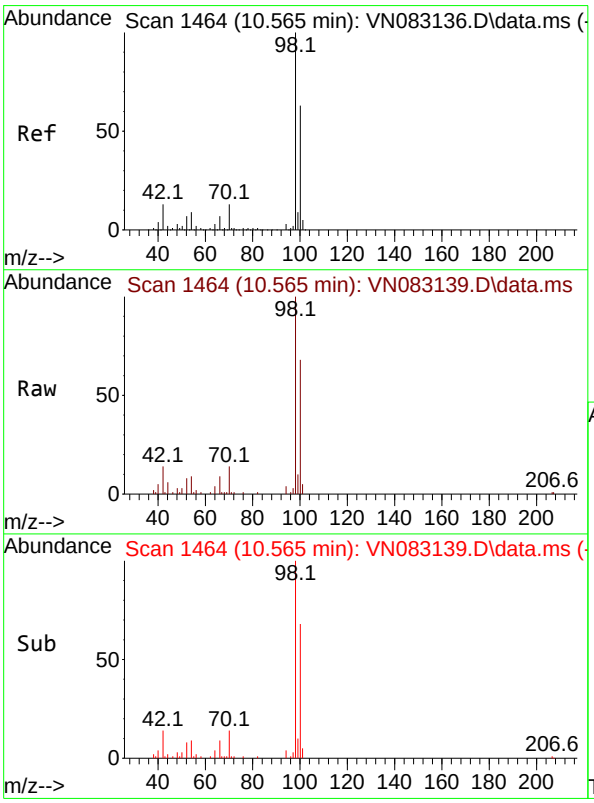
Ion	Ratio	Lower	Upper
88	100		
43	0.0	27.8	41.8
58	79.3	59.4	89.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

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

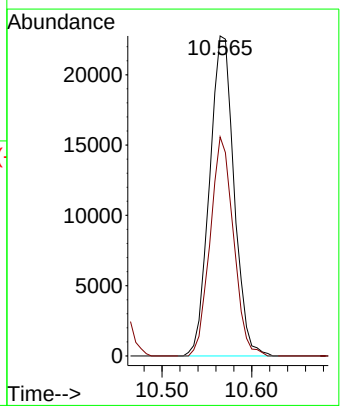


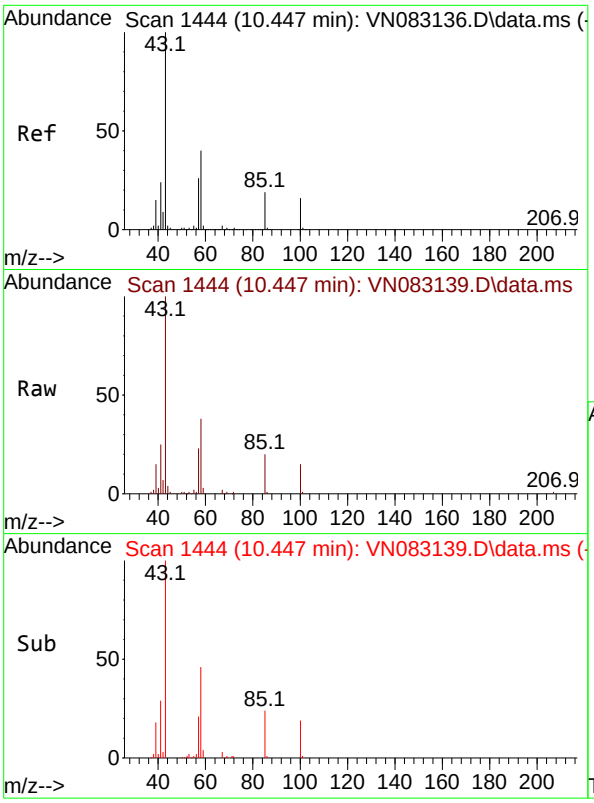


#50
Toluene-d8
Concen: 5.326 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 98 Resp: 43104

Ion	Ratio	Lower	Upper
98	100		
100	65.2	51.5	77.3

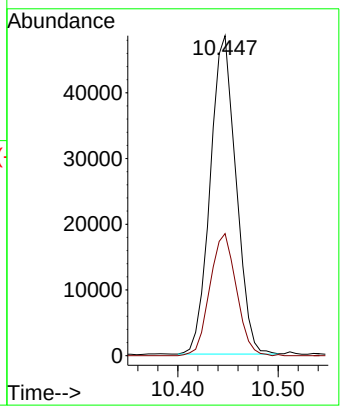




#51
4-Methyl-2-Pentanone
Concen: 24.946 ug/l
RT: 10.447 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 43 Resp: 8667

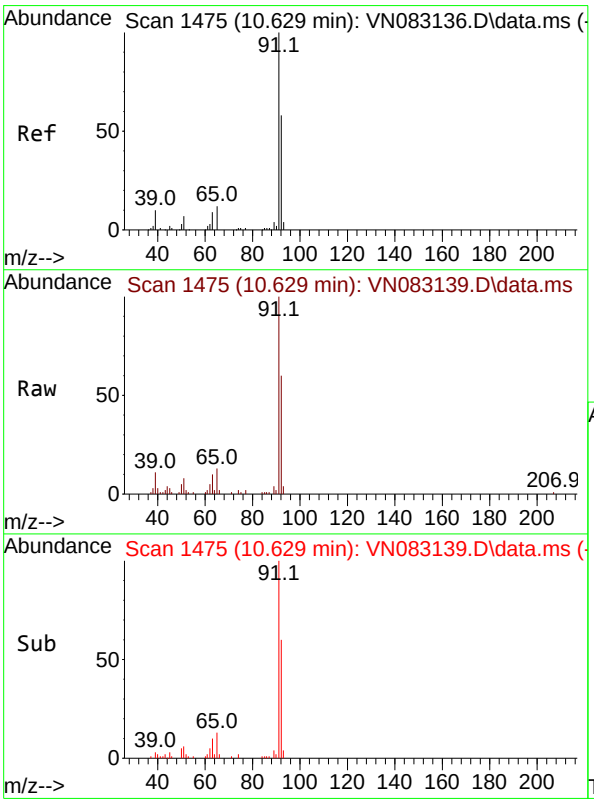
Ion	Ratio	Lower	Upper
43	100		
58	39.3	28.2	42.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

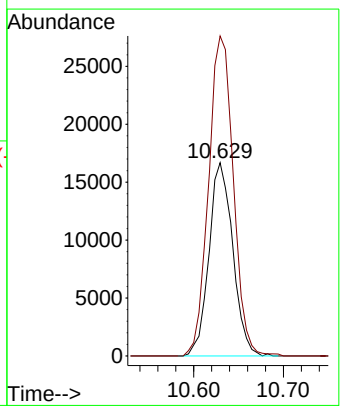
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

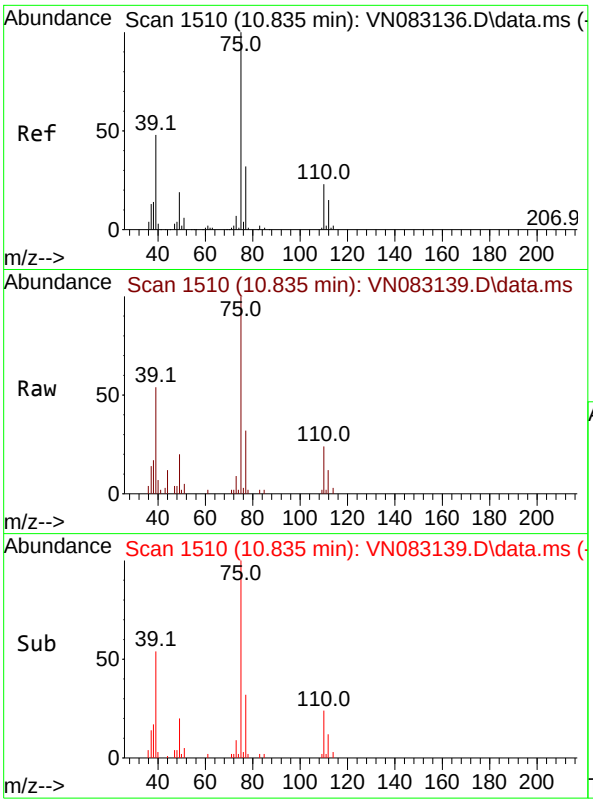


#52
Toluene
Concen: 4.981 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 92 Resp: 30769

Ion	Ratio	Lower	Upper
92	100		
91	172.3	139.4	209.0

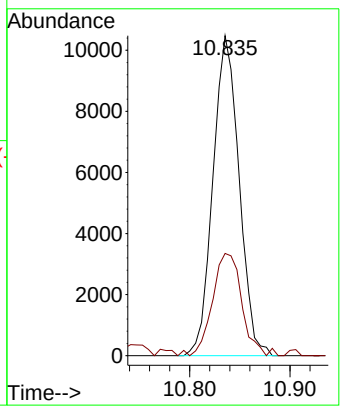




#53
t-1,3-Dichloropropene
Concen: 4.950 ug/l
RT: 10.835 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 75 Resp: 1896

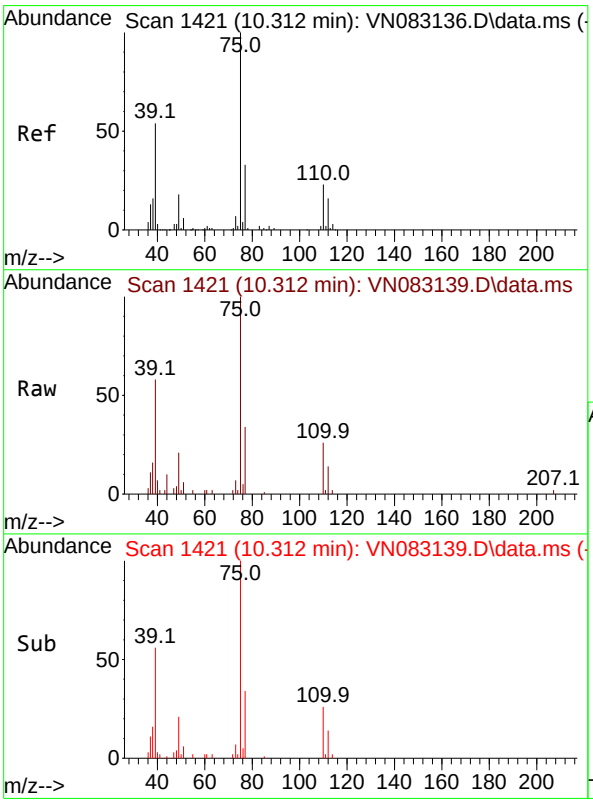
Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

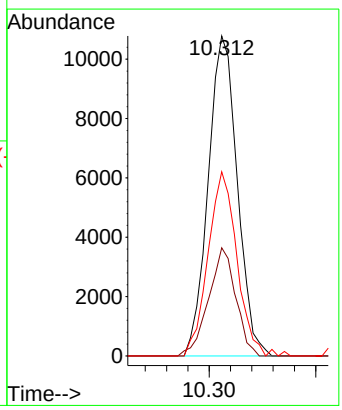
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

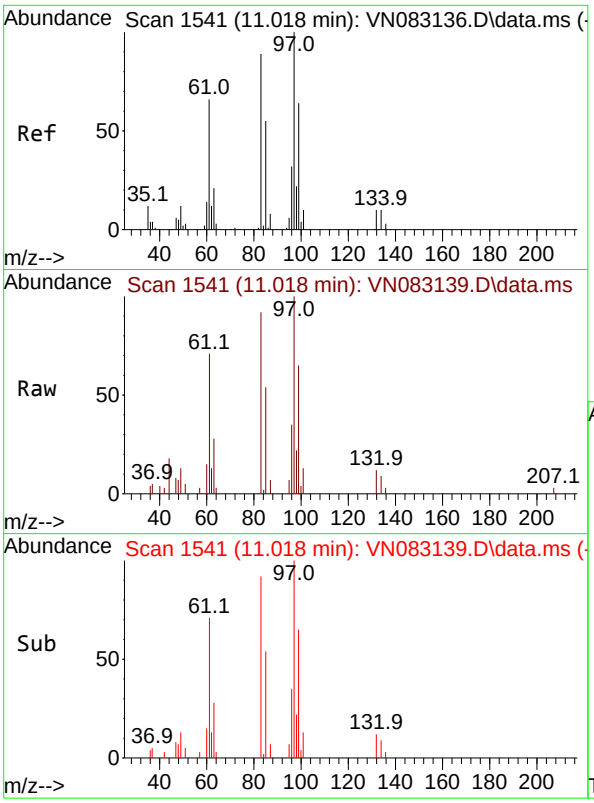


#54
cis-1,3-Dichloropropene
Concen: 5.014 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

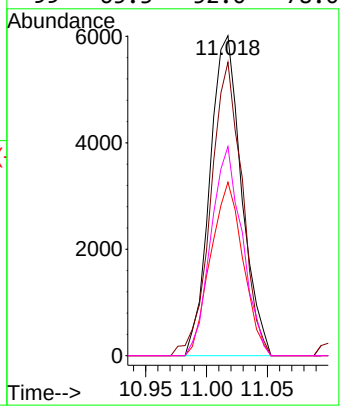




#55
1,1,2-Trichloroethane
Concen: 4.930 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 97 Resp: 1091

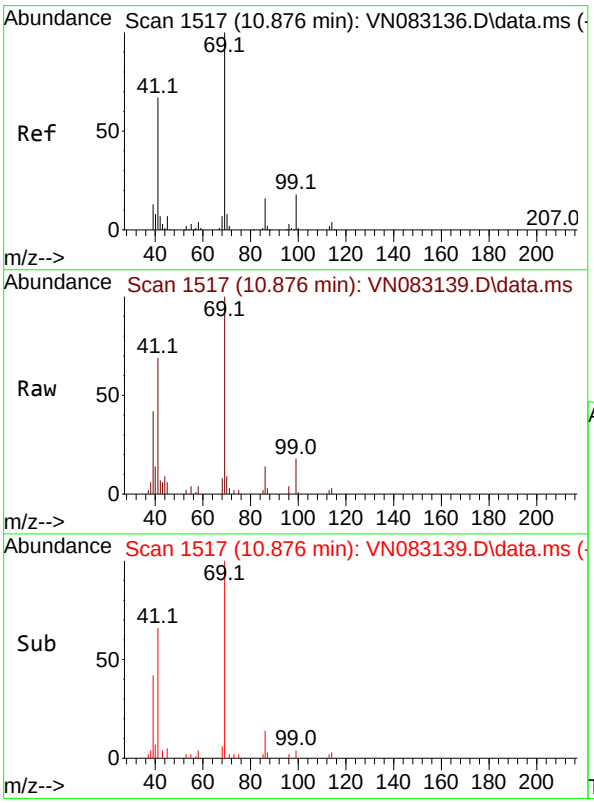
Ion	Ratio	Lower	Upper
97	100		
83	91.7	71.4	107.0
85	54.2	45.8	68.6
99	65.3	52.0	78.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

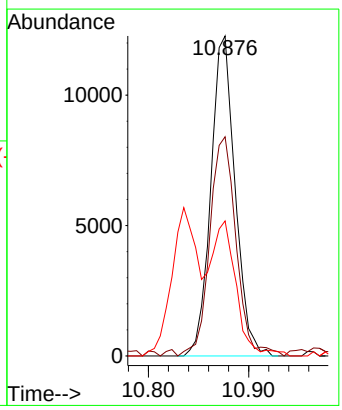
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

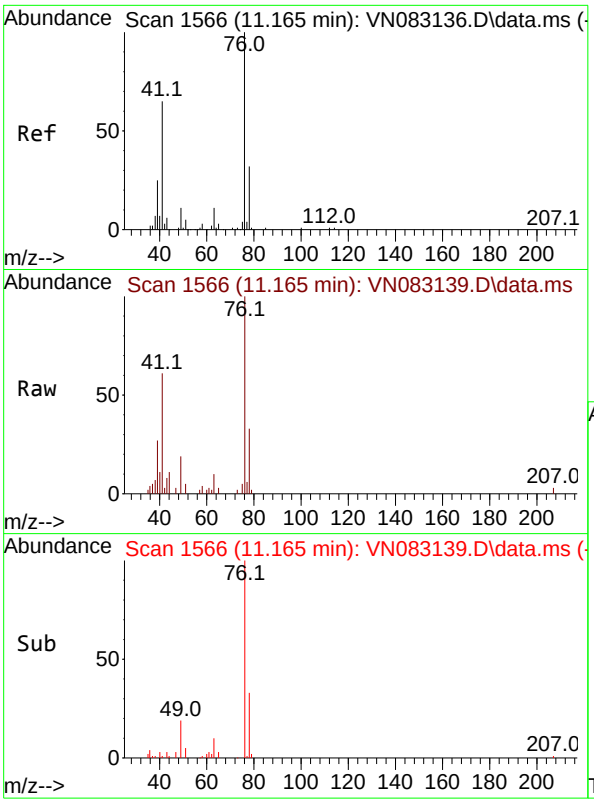


#56
Ethyl methacrylate
Concen: 4.951 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 69 Resp: 20661

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

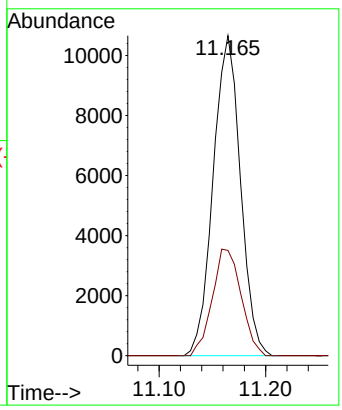




#57
1,3-Dichloropropane
Concen: 4.799 ug/l
RT: 11.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 76 Resp: 1893

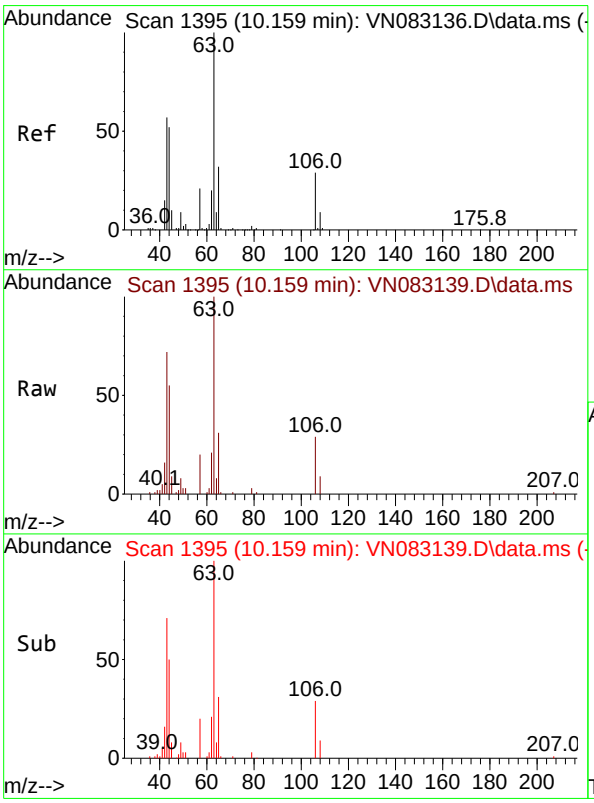
Ion	Ratio	Lower	Upper
76	100		
78	35.3	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

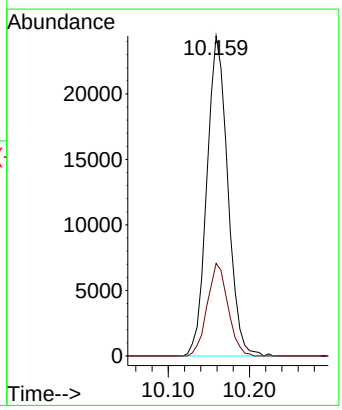
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

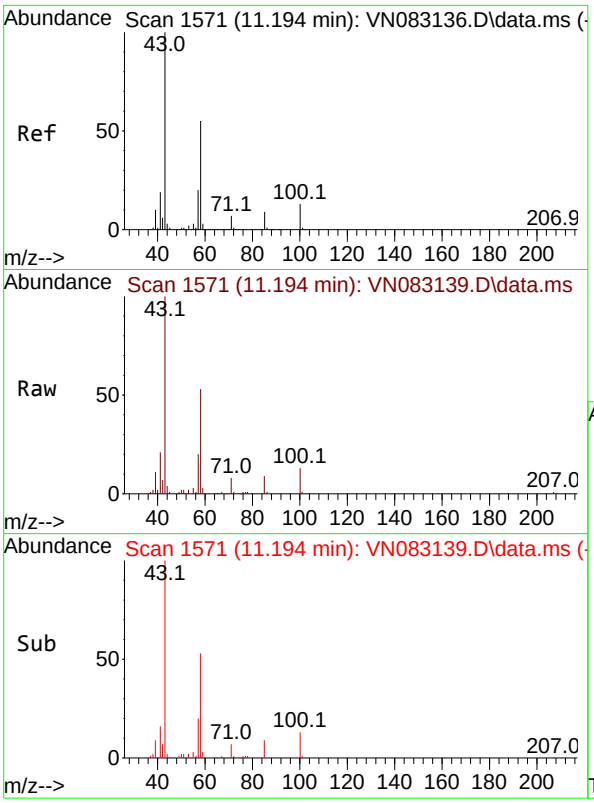


#58
2-Chloroethyl Vinyl ether
Concen: 24.676 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

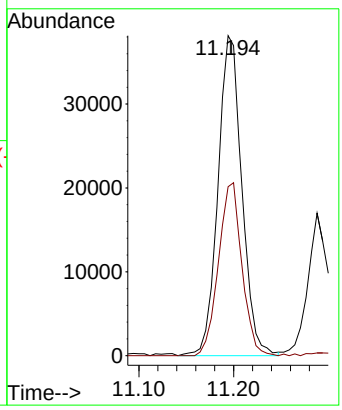
Tgt Ion: 43 Resp: 6685

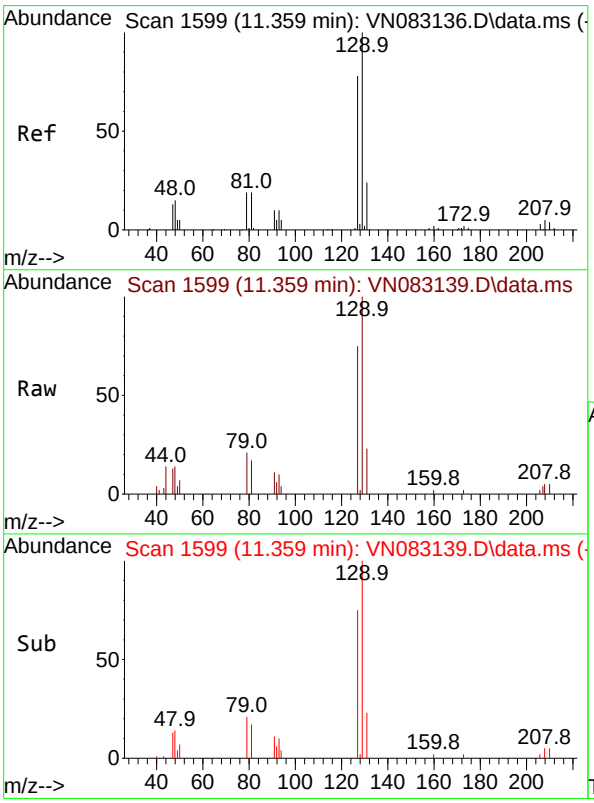
Ion	Ratio	Lower	Upper
43	100		
58	52.9	24.6	73.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

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

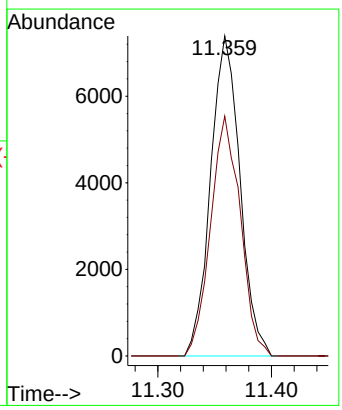


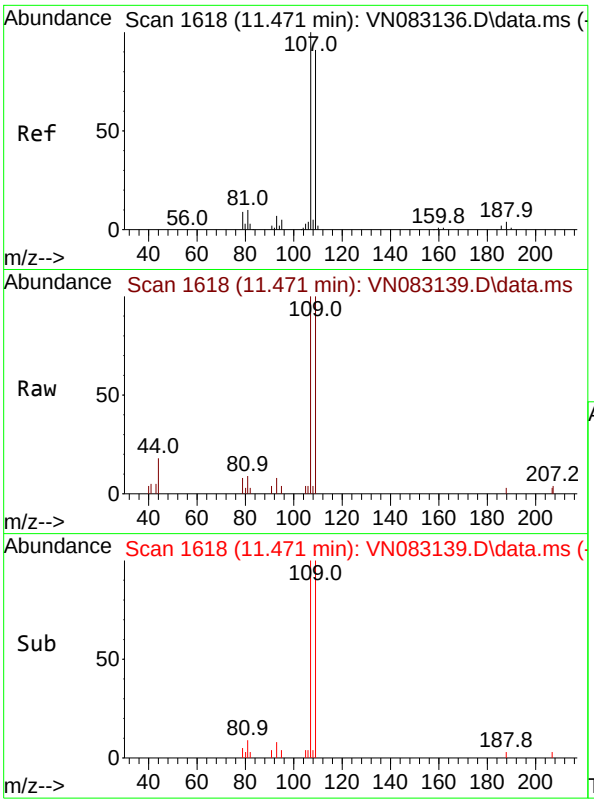


#60
Dibromochloromethane
Concen: 4.972 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

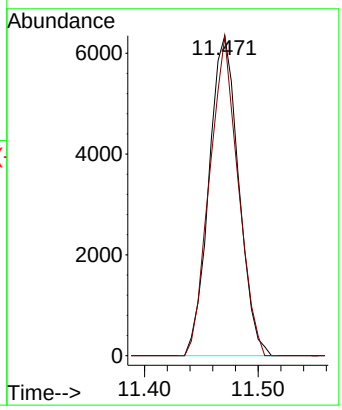
Tgt Ion:107 Resp: 1152

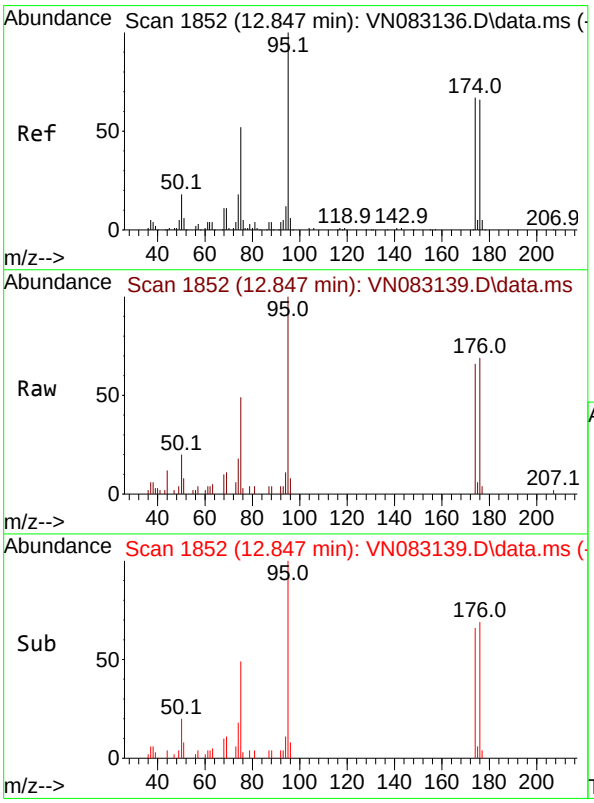
Ion	Ratio	Lower	Upper
107	100		
109	95.9	73.7	110.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

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

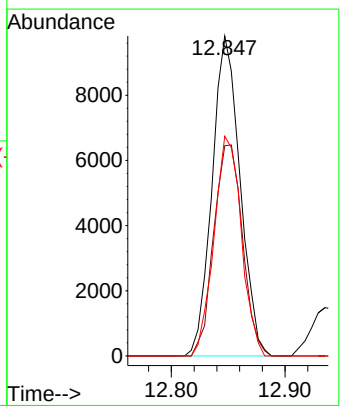


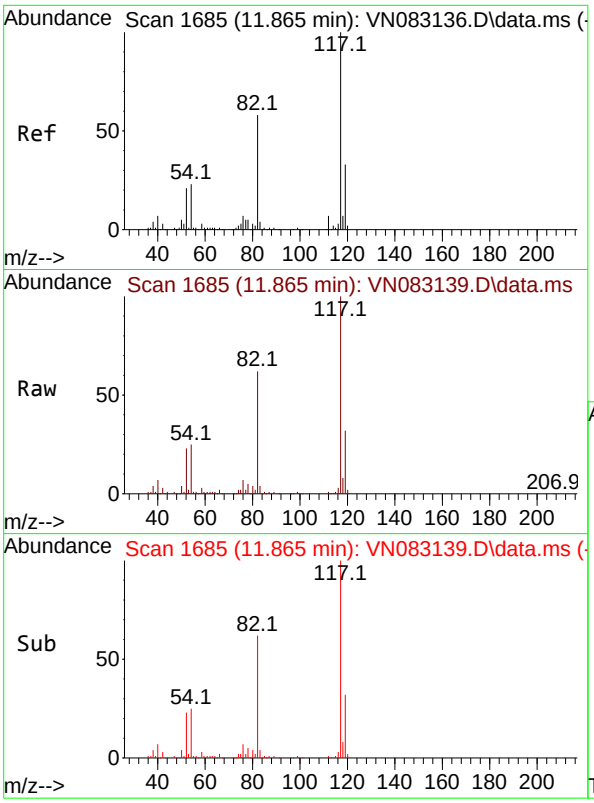


#62
4-Bromofluorobenzene
Concen: 5.317 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

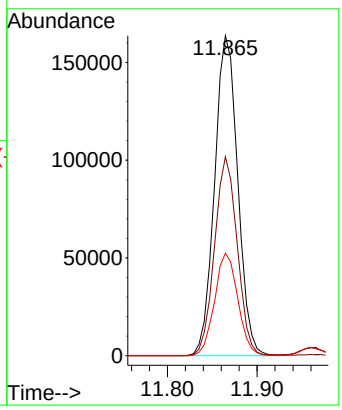
Tgt Ion:117 Resp: 29351

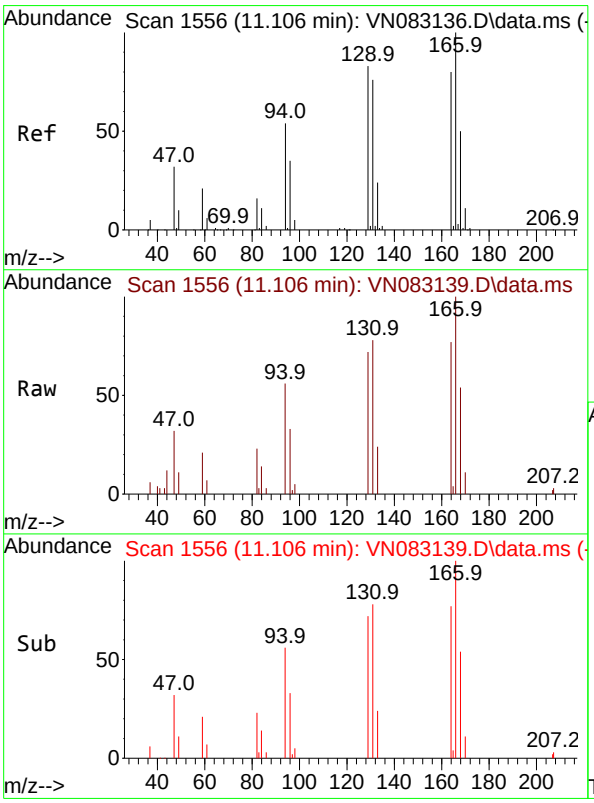
Ion	Ratio	Lower	Upper
117	100		
82	62.1	47.5	71.3
119	32.0	25.6	38.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

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

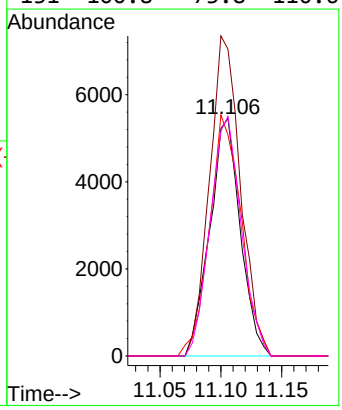


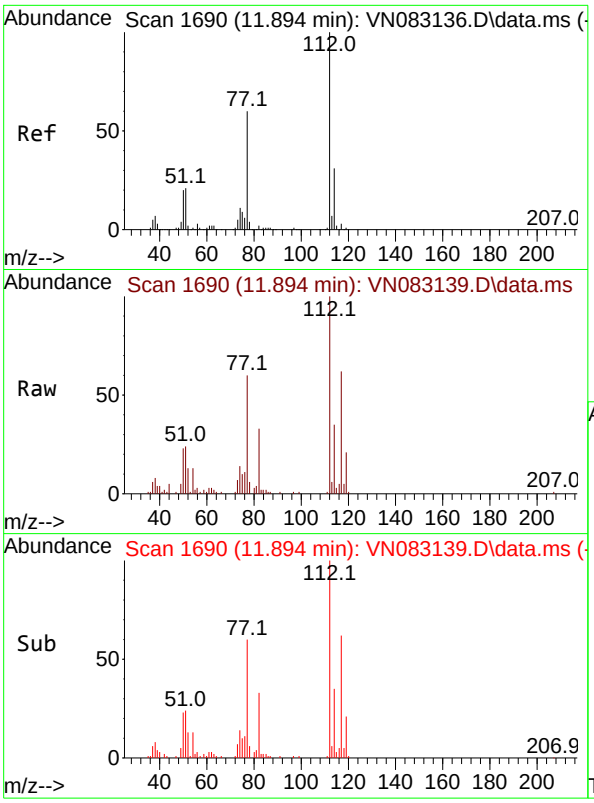


#64
Tetrachloroethene
Concen: 4.896 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

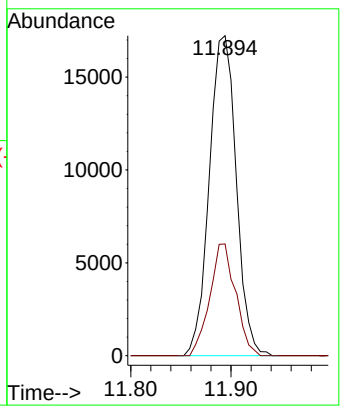




#65
Chlorobenzene
Concen: 4.951 ug/l
RT: 11.894 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:112 Resp: 3211

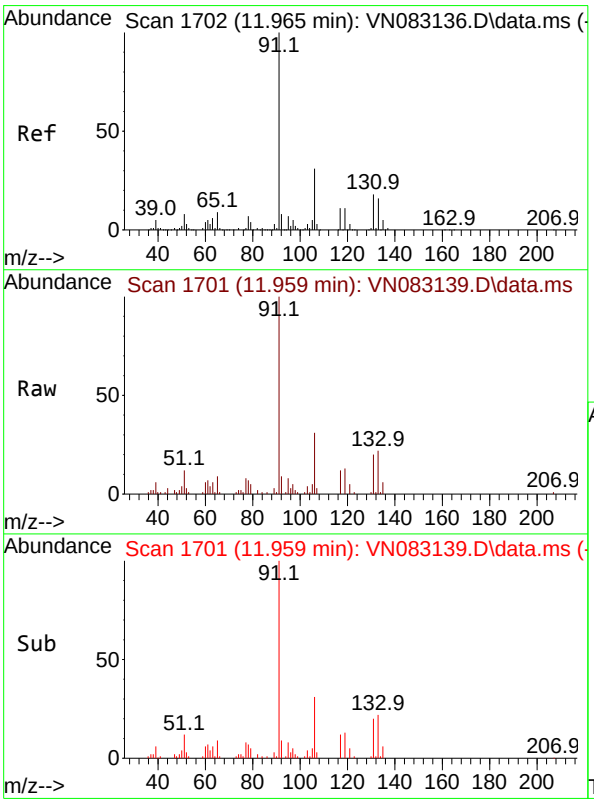
Ion	Ratio	Lower	Upper
112	100		
114	34.9	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

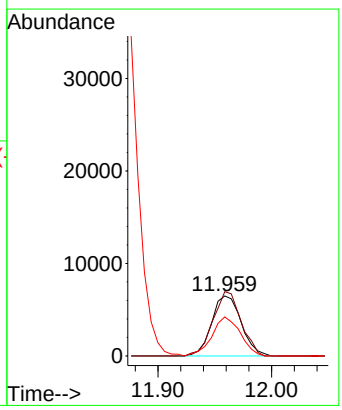
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

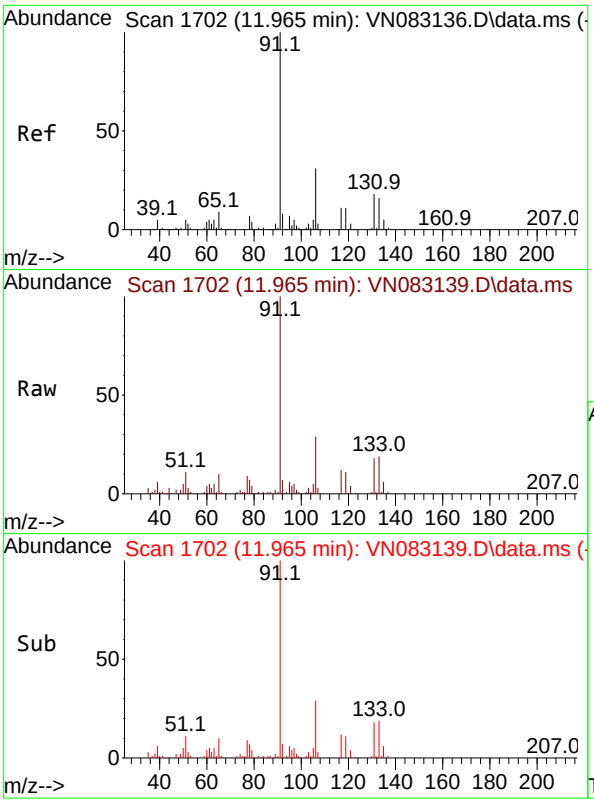


#66
1,1,1,2-Tetrachloroethane
Concen: 5.140 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

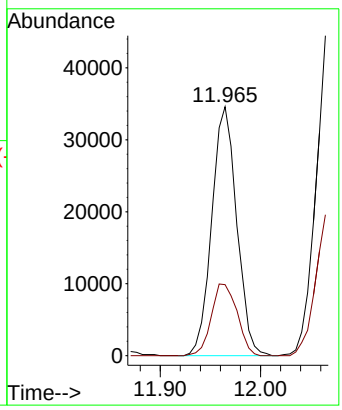
Tgt Ion: 91 Resp: 5964

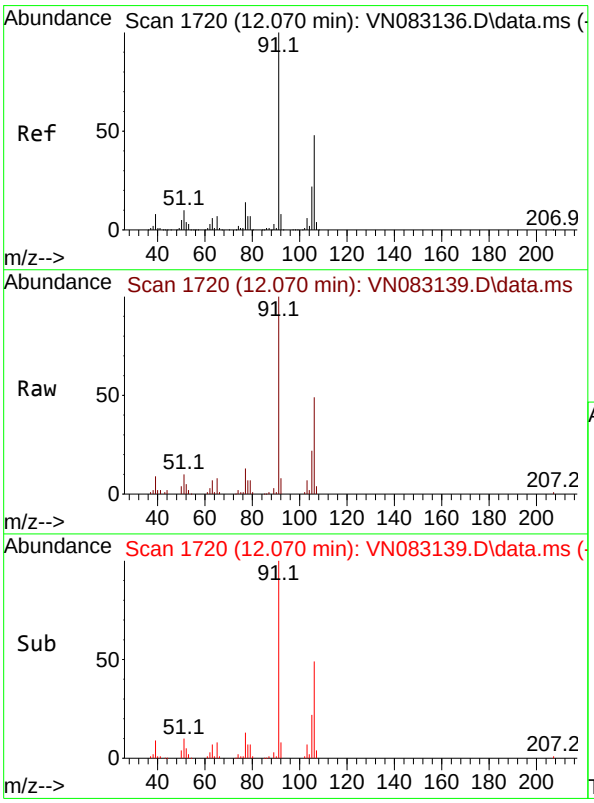
Ion	Ratio	Lower	Upper
91	100		
106	28.6	24.0	36.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

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

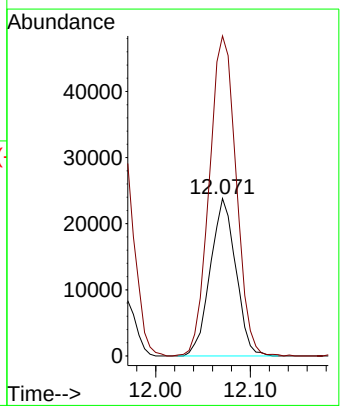


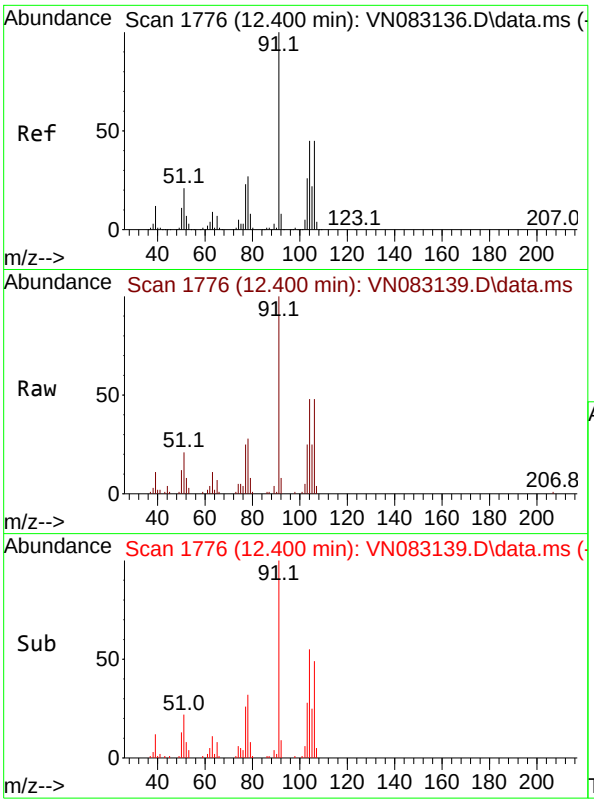


#68
m/p-Xylenes
Concen: 10.000 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

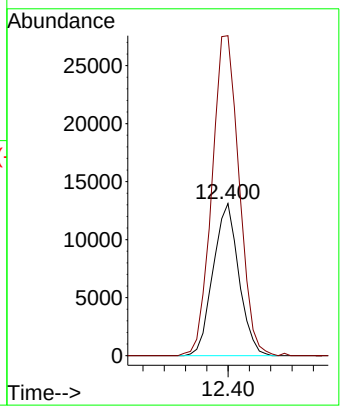
Tgt Ion:106 Resp: 2200

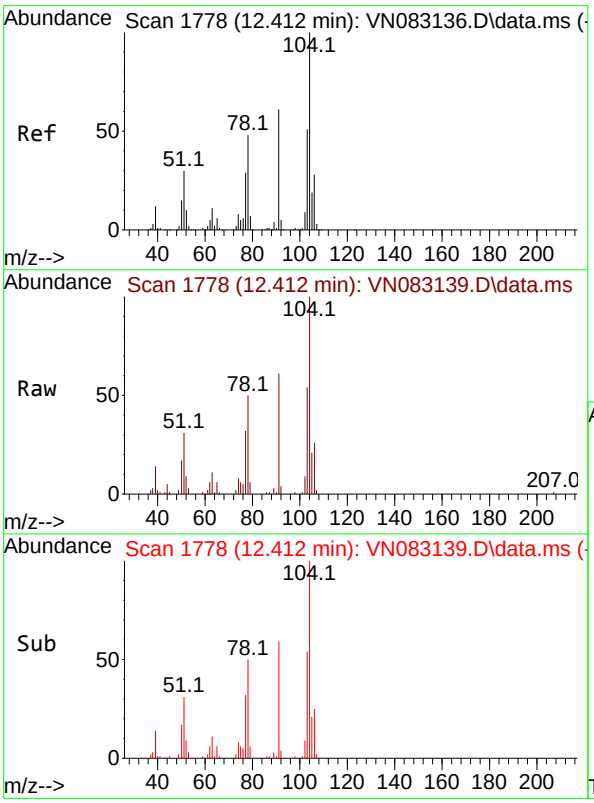
Ion	Ratio	Lower	Upper
106	100		
91	221.7	111.3	333.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

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

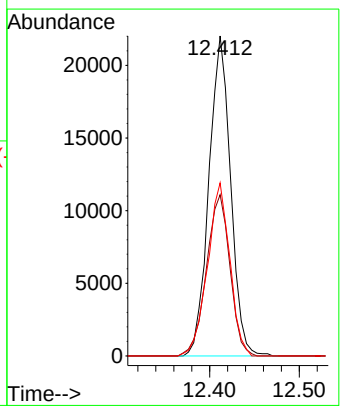


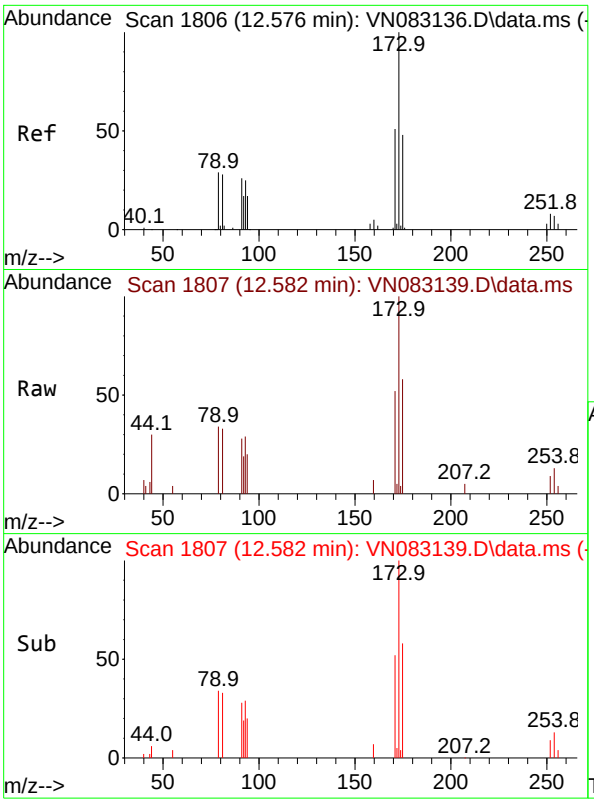


#70
Styrene
Concen: 5.014 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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# 1
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

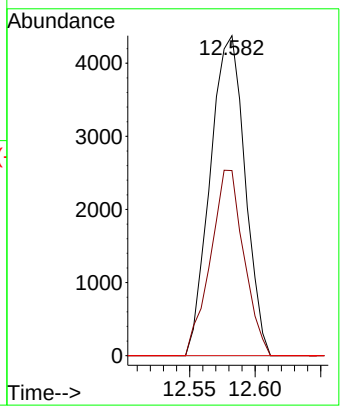
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

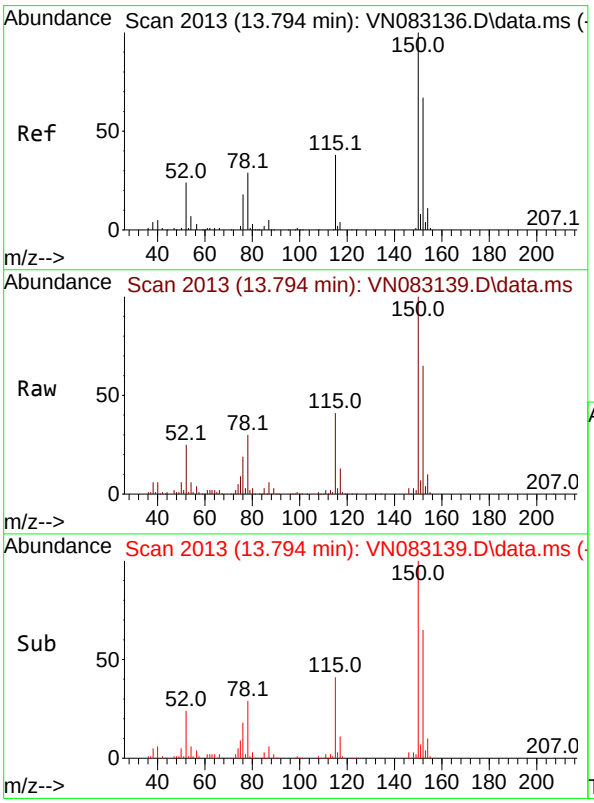
Tgt Ion:173 Resp: 808

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

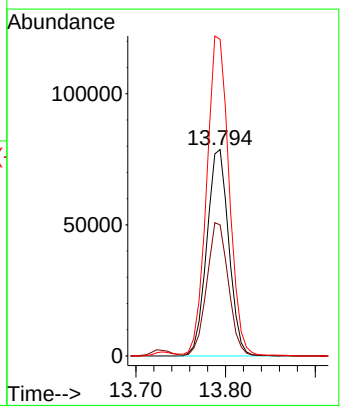


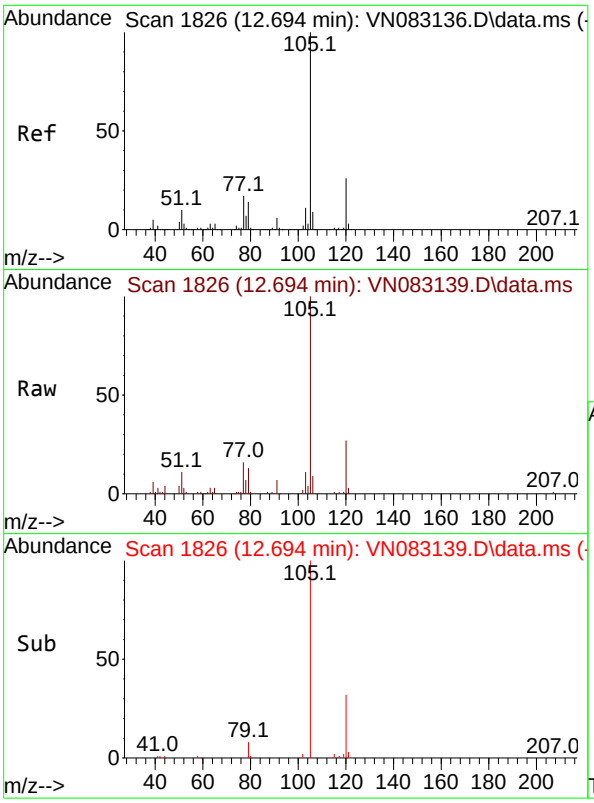


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

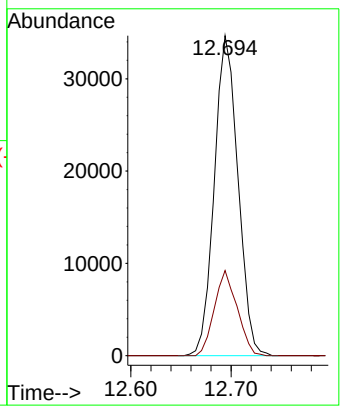




#73
Isopropylbenzene
Concen: 5.080 ug/l
RT: 12.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:105 Resp: 5674

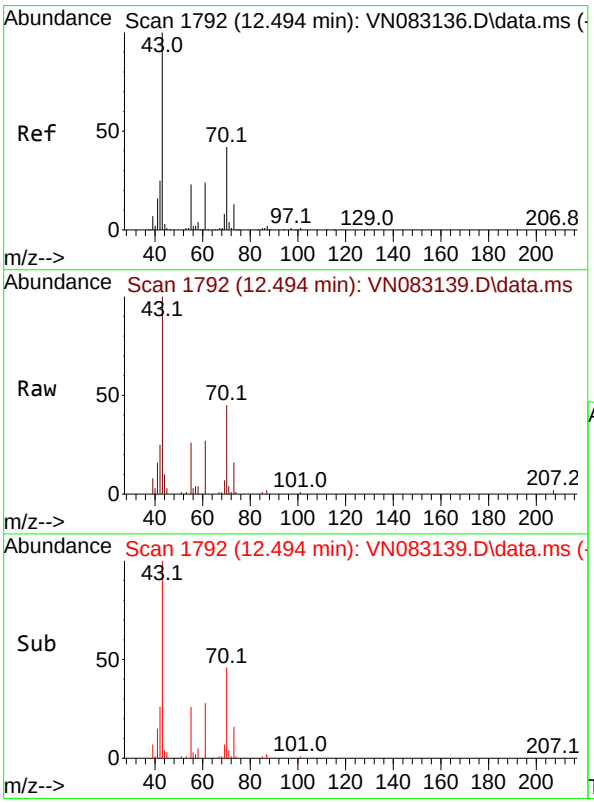
Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.9	38.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

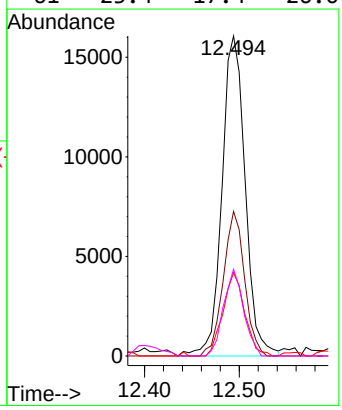
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

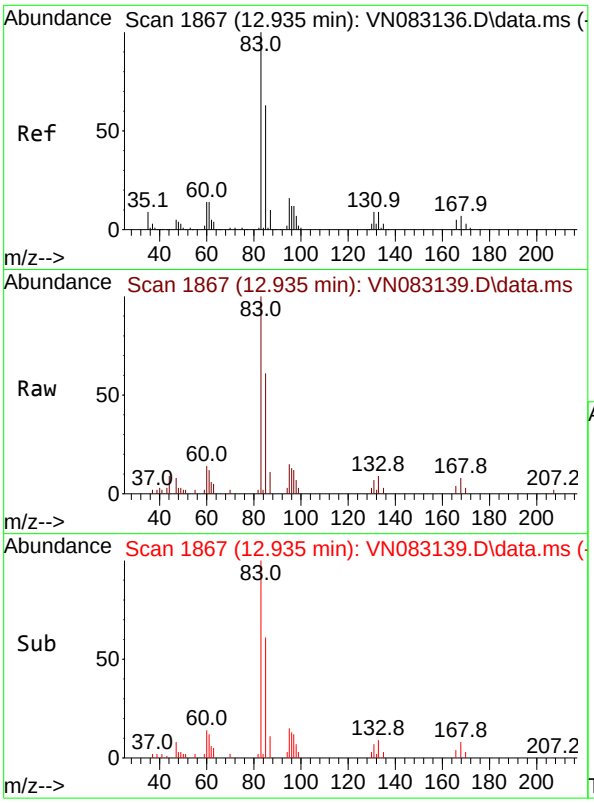


#74
N-amyl acetate
Concen: 5.014 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

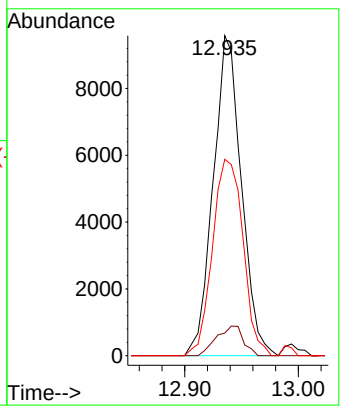




#75
1,1,2,2-Tetrachloroethane
Concen: 5.227 ug/l
RT: 12.935 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 83 Resp: 1651

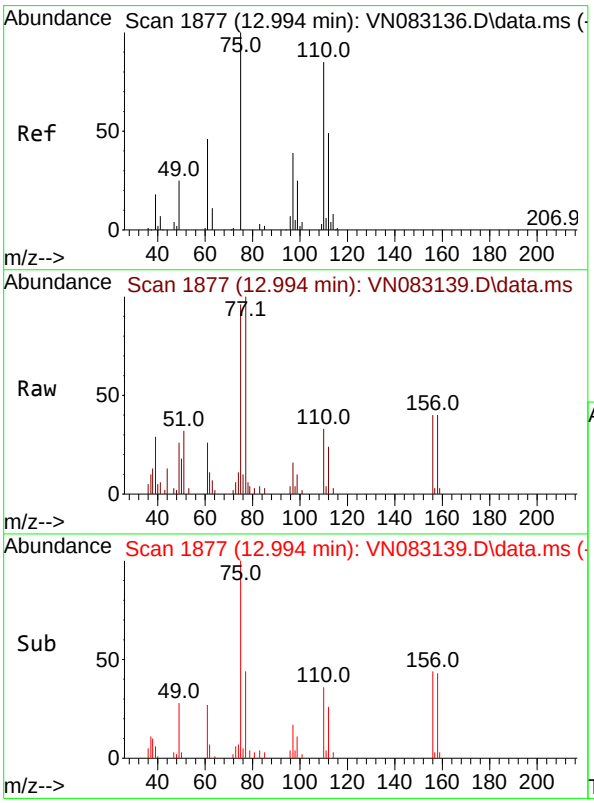
Ion	Ratio	Lower	Upper
83	100		
131	8.8	5.0	14.9
85	66.4	31.9	95.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

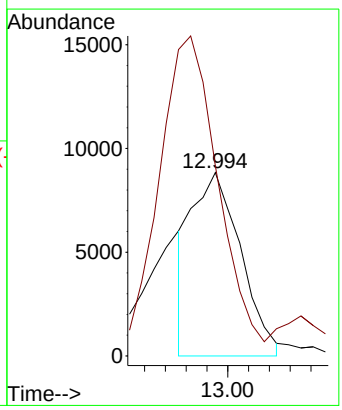
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

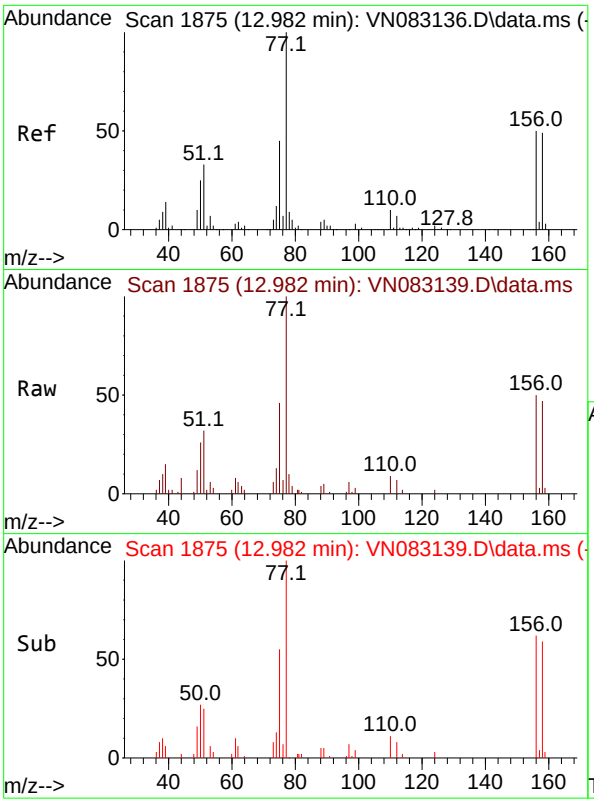


#76
1,2,3-Trichloropropane
Concen: 4.927 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 75 Resp: 14463

Ion	Ratio	Lower	Upper
75	100		
77	212.4	110.9	332.6

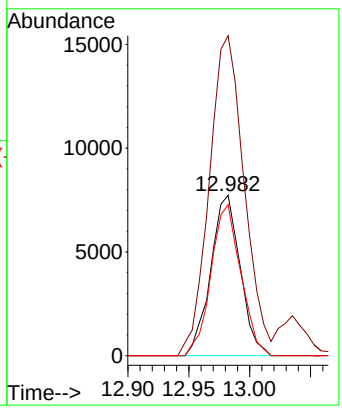




#77
Bromobenzene
Concen: 5.249 ug/l
RT: 12.982 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:156 Resp: 1302

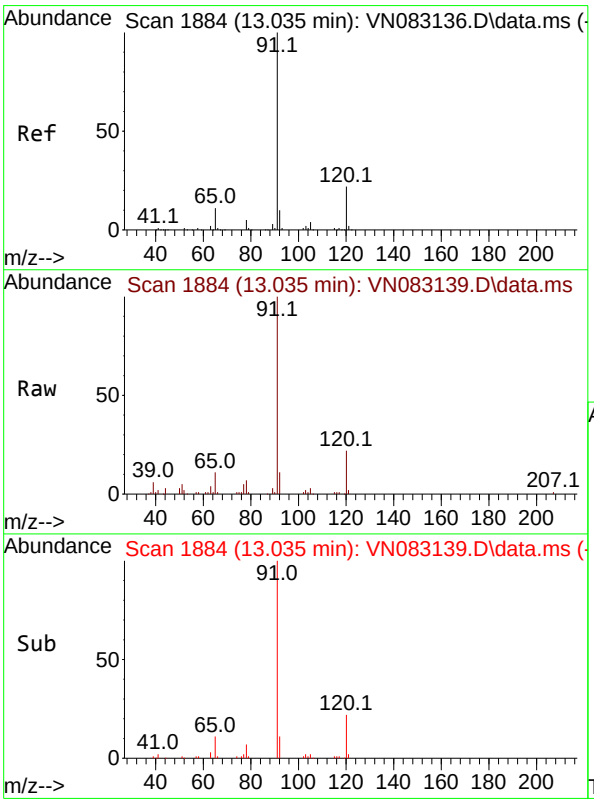
Ion	Ratio	Lower	Upper
156	100		
77	235.8	111.3	333.8
158	95.0	48.3	144.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

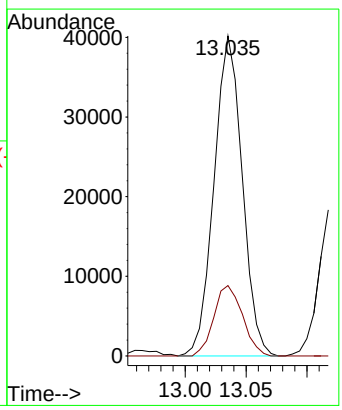
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

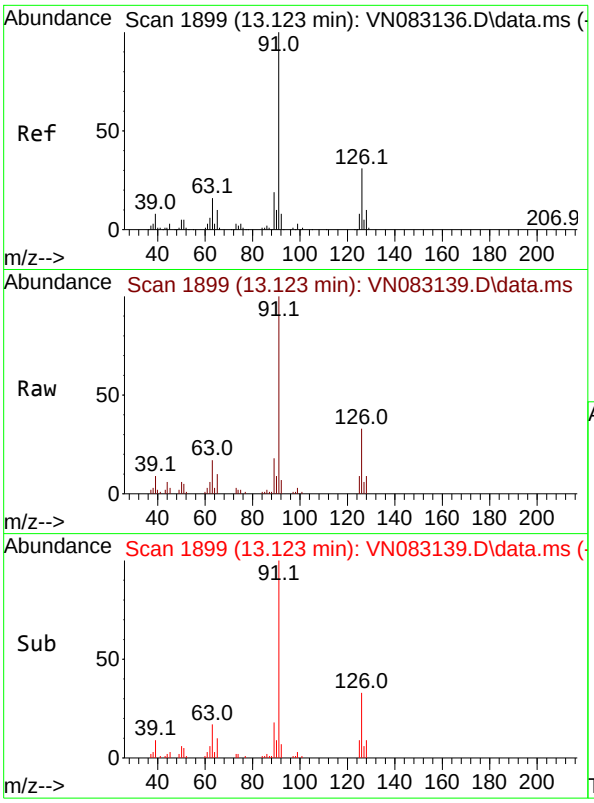


#78
n-propylbenzene
Concen: 5.035 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

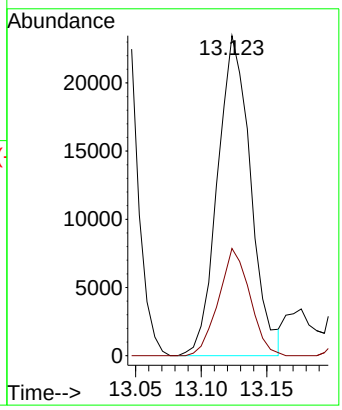
Tgt Ion: 91 Resp: 4117

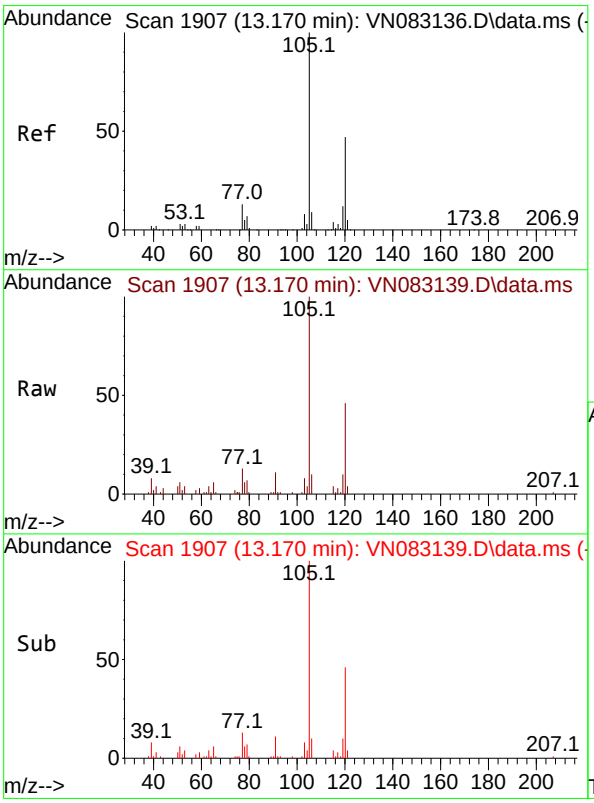
Ion	Ratio	Lower	Upper
91	100		
126	31.6	16.2	48.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

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

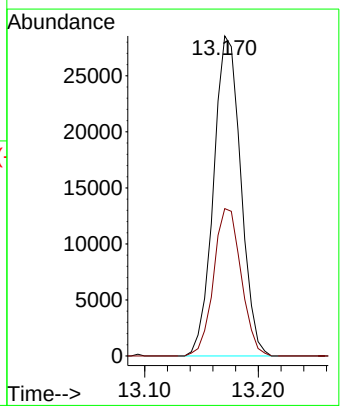


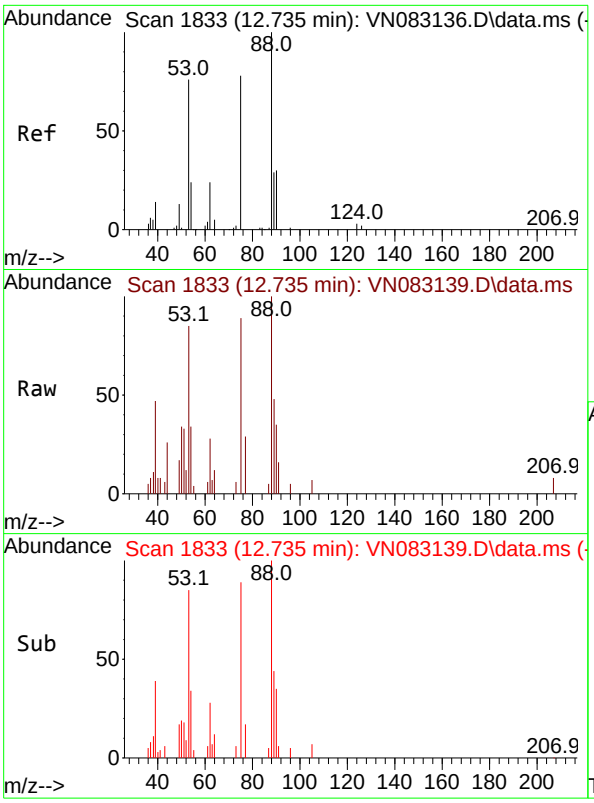


#80
1,3,5-Trimethylbenzene
Concen: 5.088 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

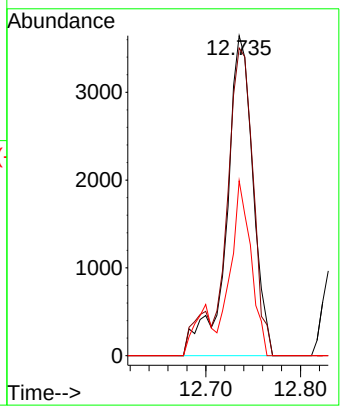
Tgt Ion: 75 Resp: 707

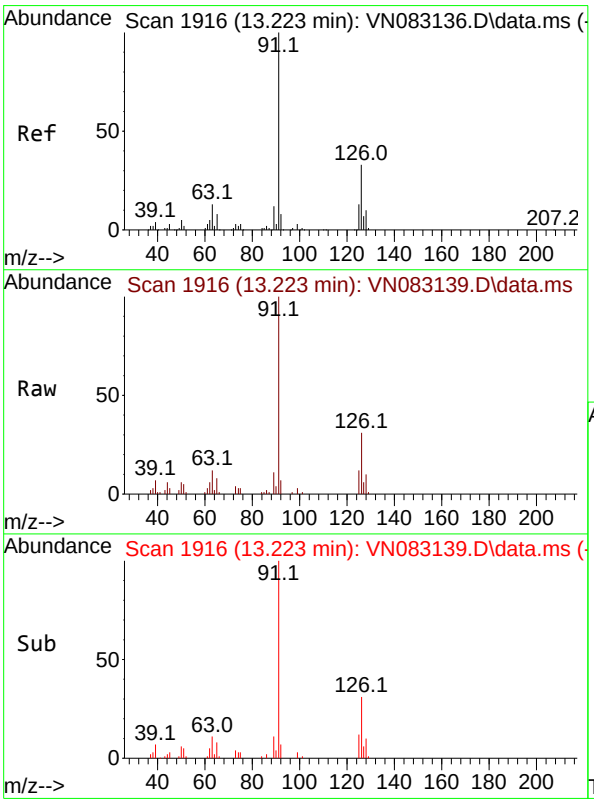
Ion	Ratio	Lower	Upper
75	100		
53	100.6	88.4	132.6
89	41.6	36.3	54.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

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

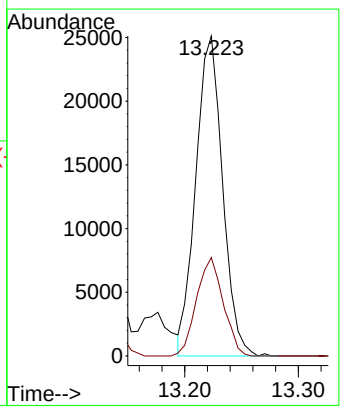


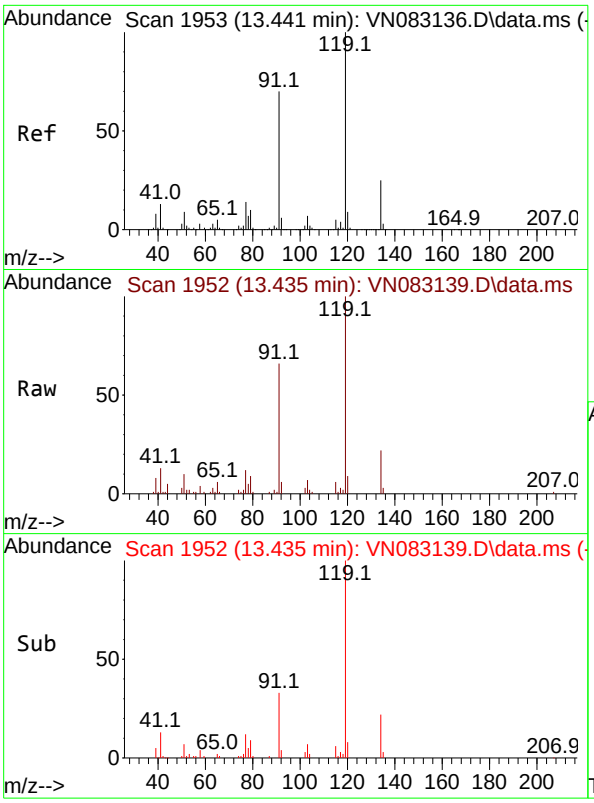


#82
4-Chlorotoluene
Concen: 5.030 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 91 Resp: 41137

Ion	Ratio	Lower	Upper
91	100		
126	30.6	16.2	48.6

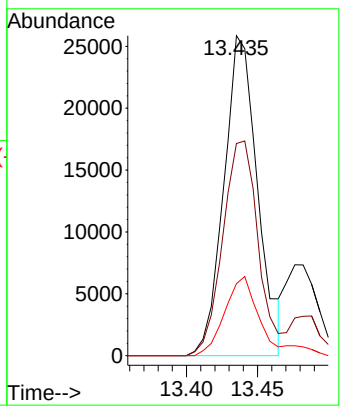




#83
tert-Butylbenzene
Concen: 5.159 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:119 Resp: 4272

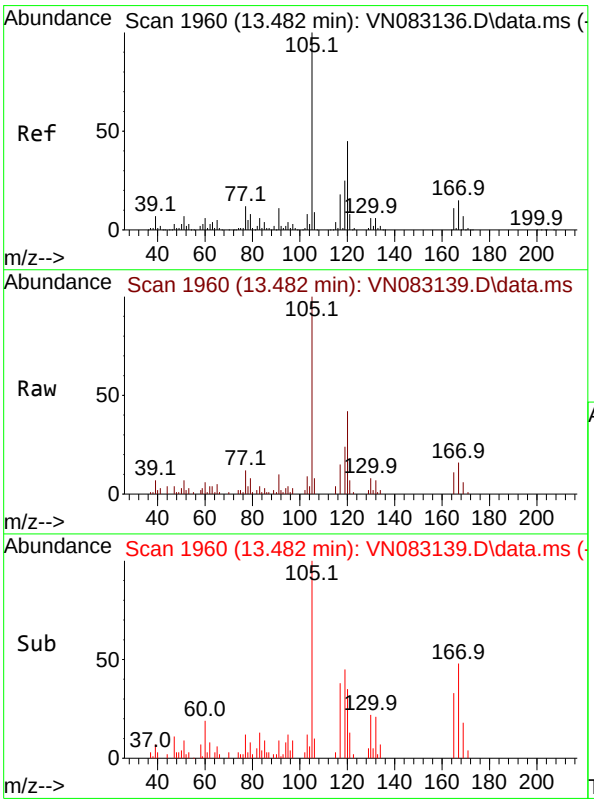
Ion	Ratio	Lower	Upper
119	100		
91	70.0	35.0	105.1
134	26.6	13.3	39.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

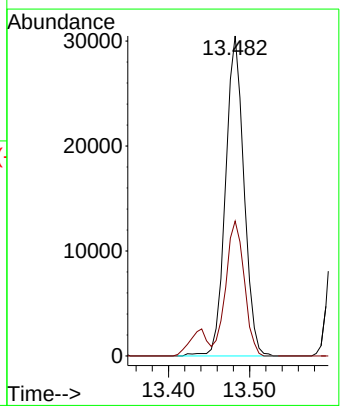
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

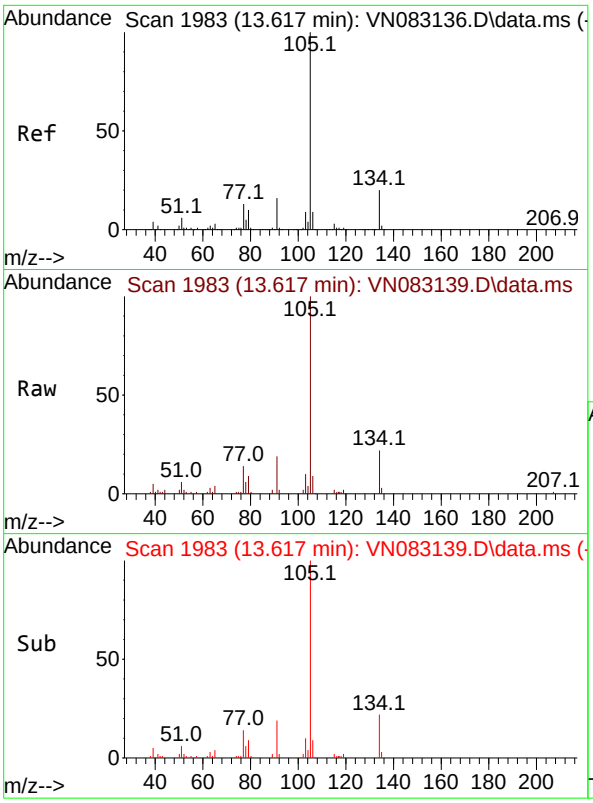


#84
1,2,4-Trimethylbenzene
Concen: 5.090 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

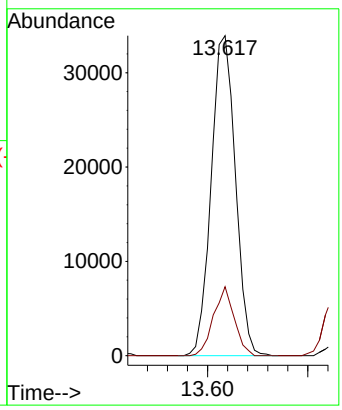
Tgt Ion:105 Resp: 5694

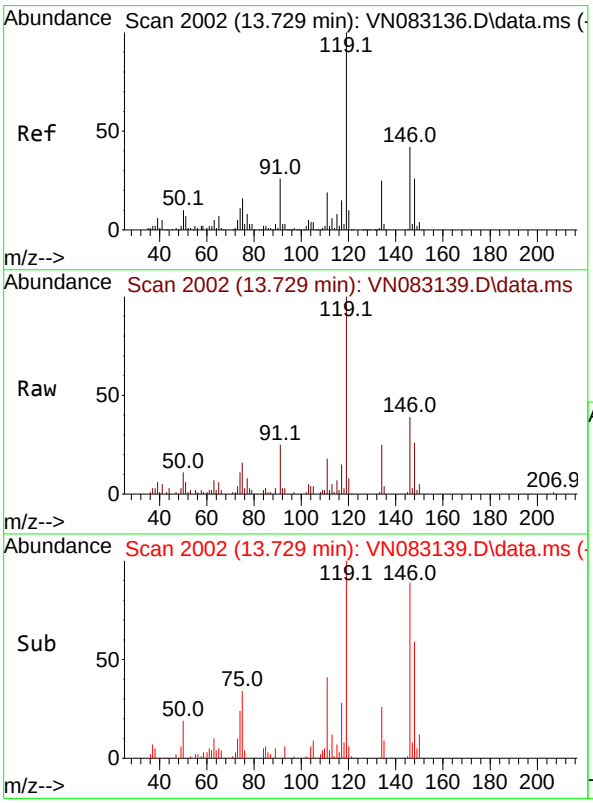
Ion	Ratio	Lower	Upper
105	100		
134	18.5	9.8	29.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

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

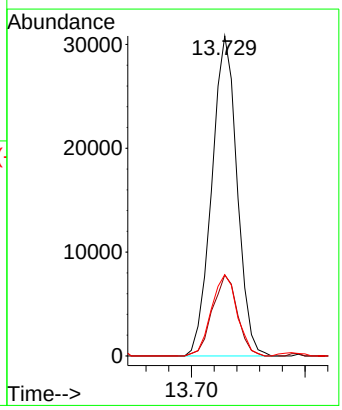


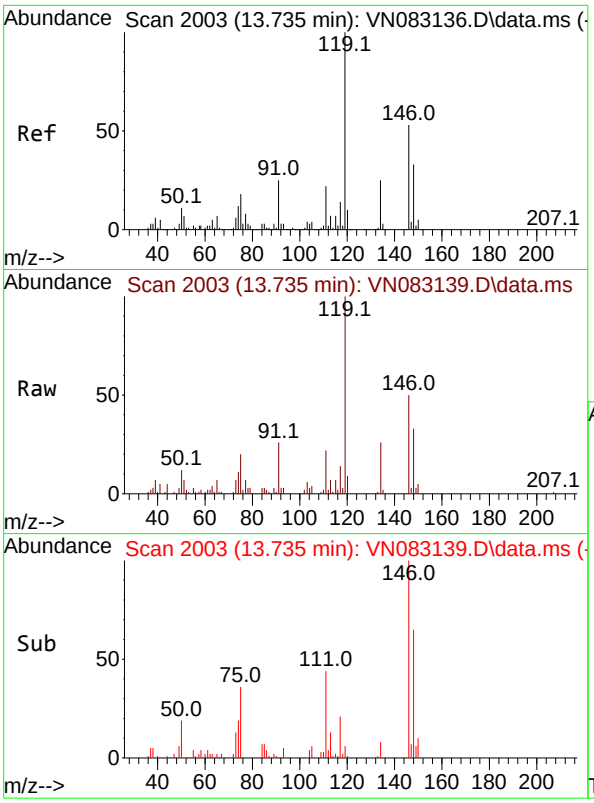


#86
p-Isopropyltoluene
Concen: 5.108 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

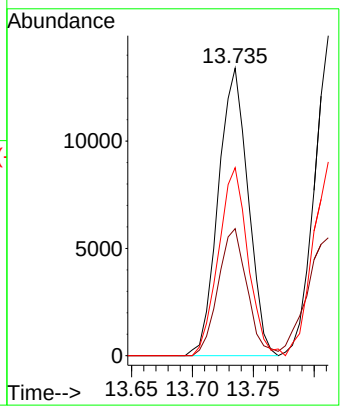




#87
1,3-Dichlorobenzene
Concen: 4.887 ug/l
RT: 13.735 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:146 Resp: 2281

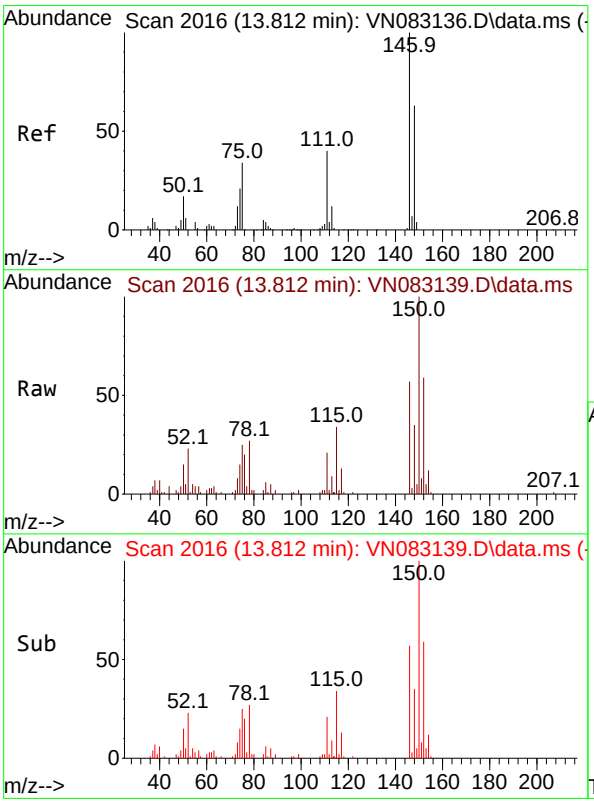
Ion	Ratio	Lower	Upper
146	100		
111	43.0	20.6	61.9
148	64.7	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

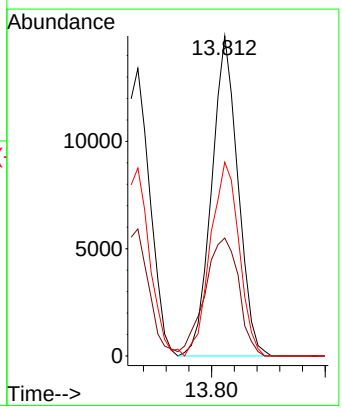
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

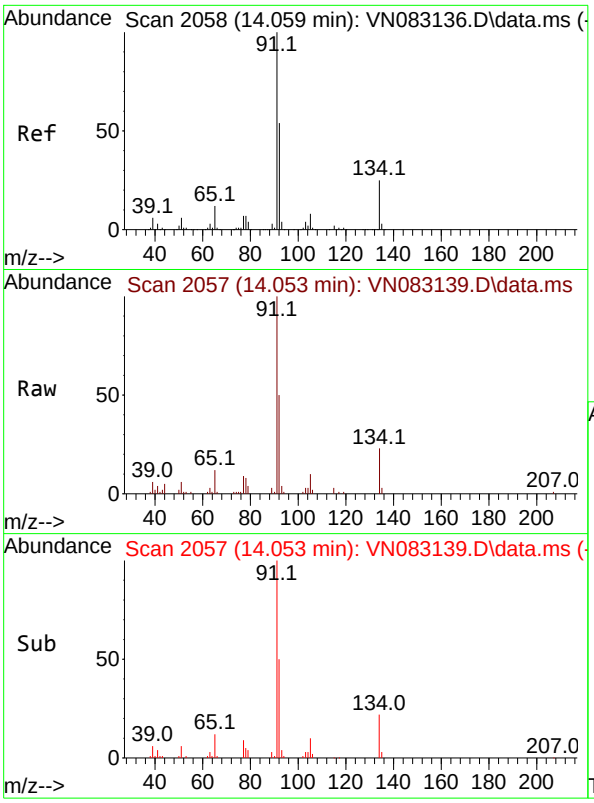


#88
1,4-Dichlorobenzene
Concen: 5.093 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

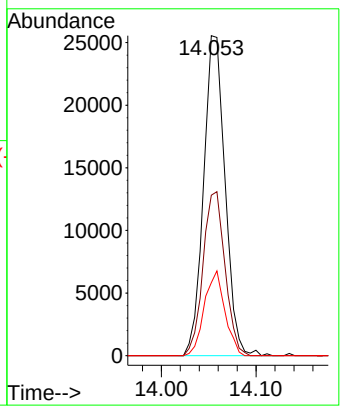




#89
n-Butylbenzene
Concen: 4.983 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 91 Resp: 4028

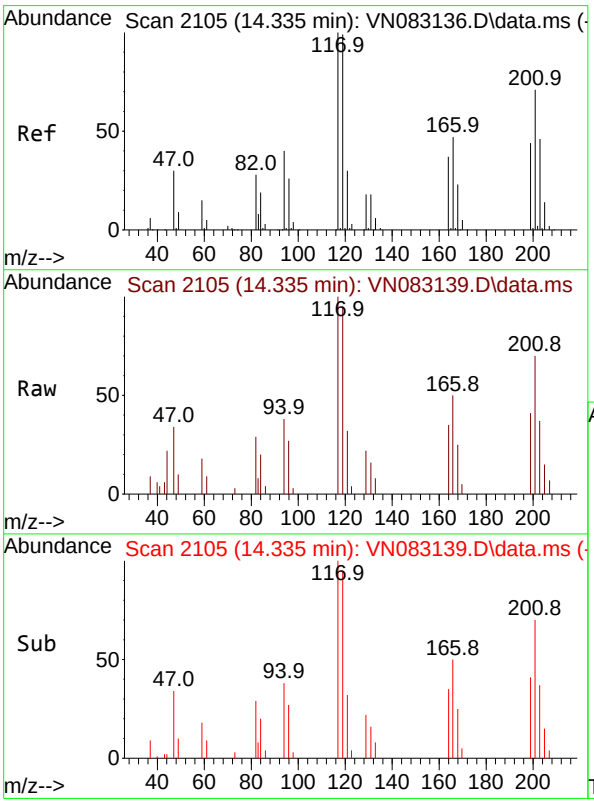
Ion	Ratio	Lower	Upper
91	100		
92	52.3	26.1	78.3
134	25.3	12.1	36.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

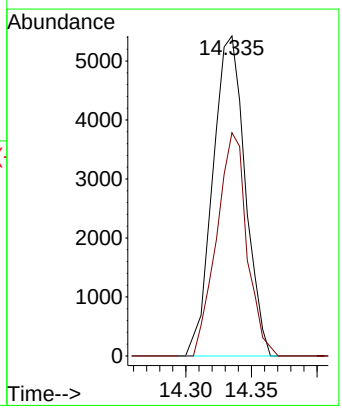
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

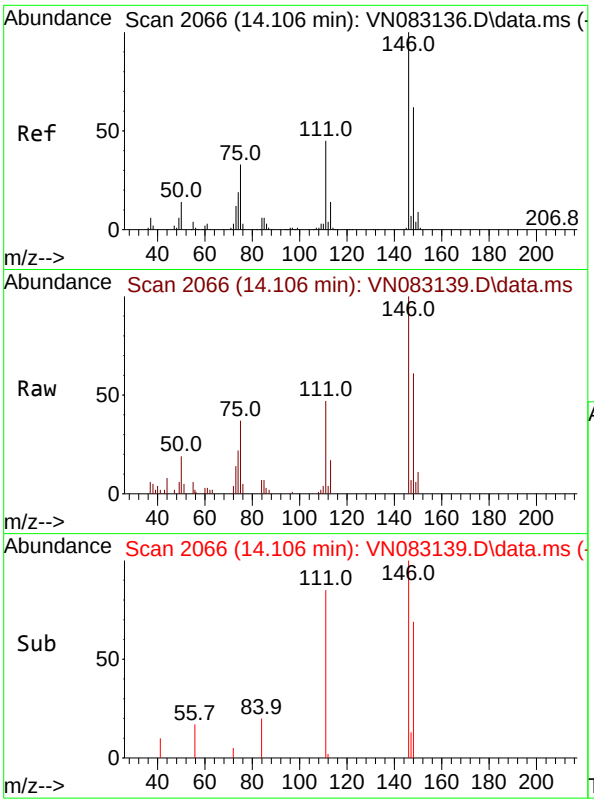


#90
Hexachloroethane
Concen: 5.158 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:117 Resp: 9298

Ion	Ratio	Lower	Upper
117	100		
201	65.4	35.8	107.3

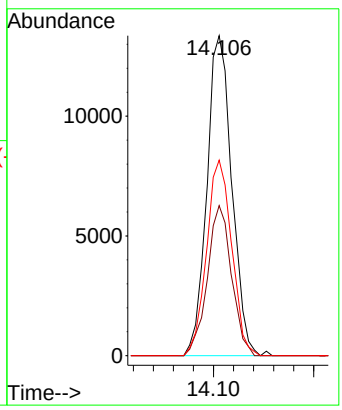




#91
1,2-Dichlorobenzene
Concen: 5.117 ug/l
RT: 14.106 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:146 Resp: 2311

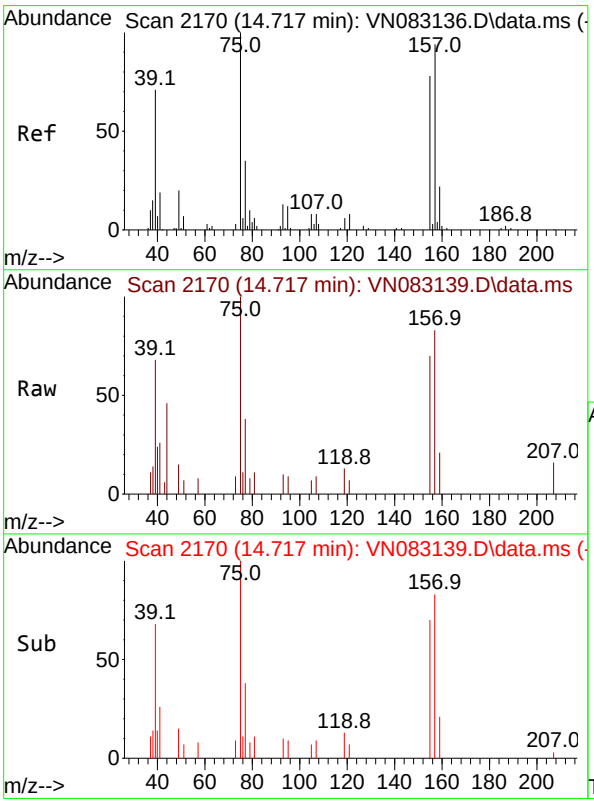
Ion	Ratio	Lower	Upper
146	100		
111	45.5	21.4	64.2
148	61.5	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

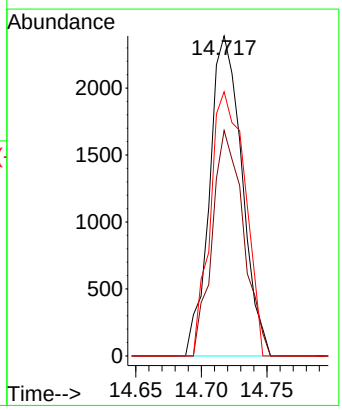
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

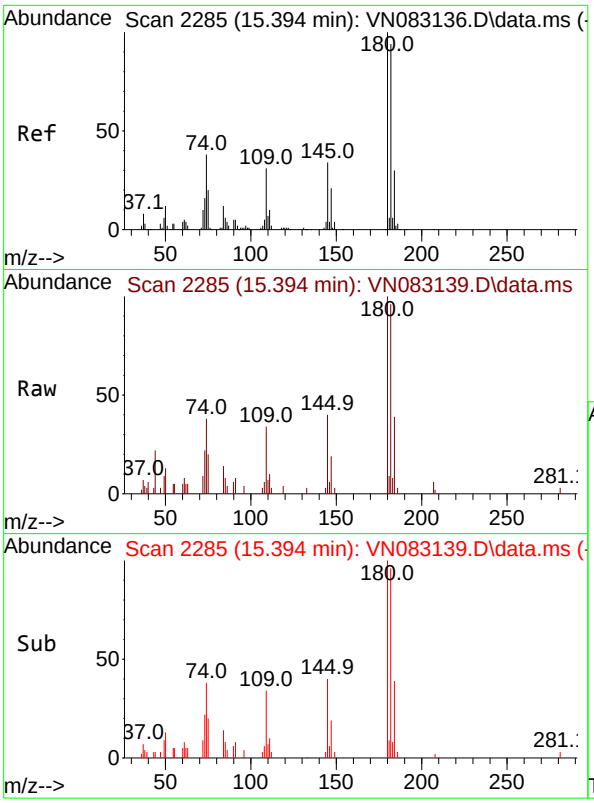


#92
1,2-Dibromo-3-Chloropropane
Concen: 5.345 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

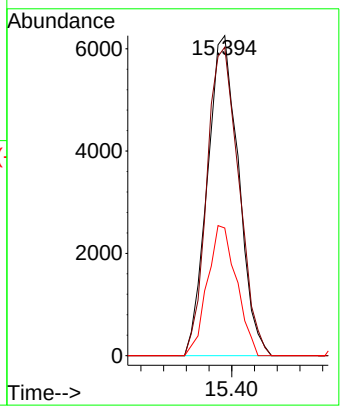




#93
1,2,4-Trichlorobenzene
Concen: 4.710 ug/l
RT: 15.394 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:180 Resp: 1192

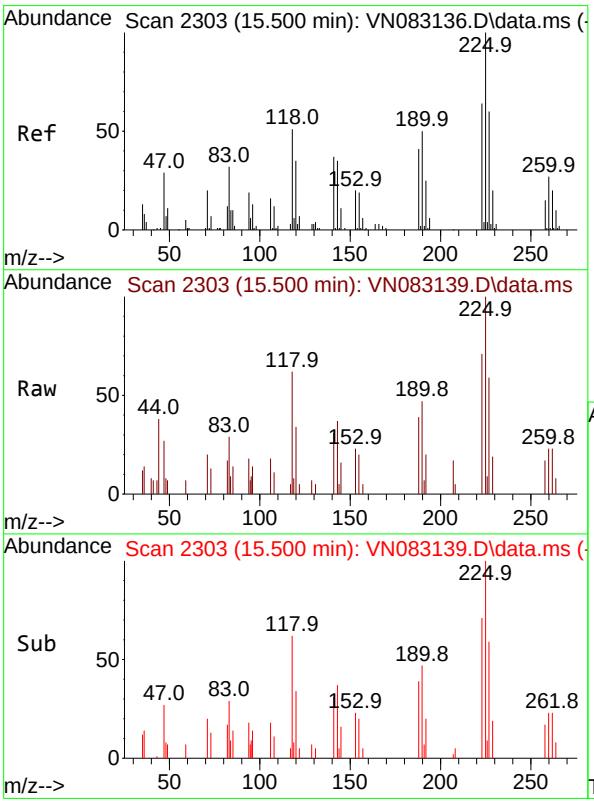
Ion	Ratio	Lower	Upper
180	100		
182	98.9	47.3	141.8
145	38.1	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

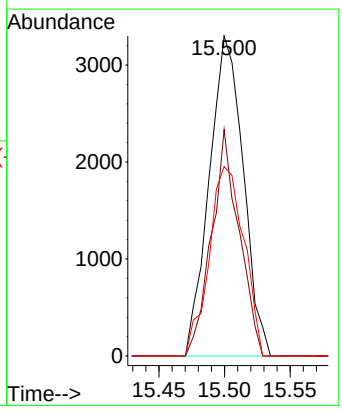
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

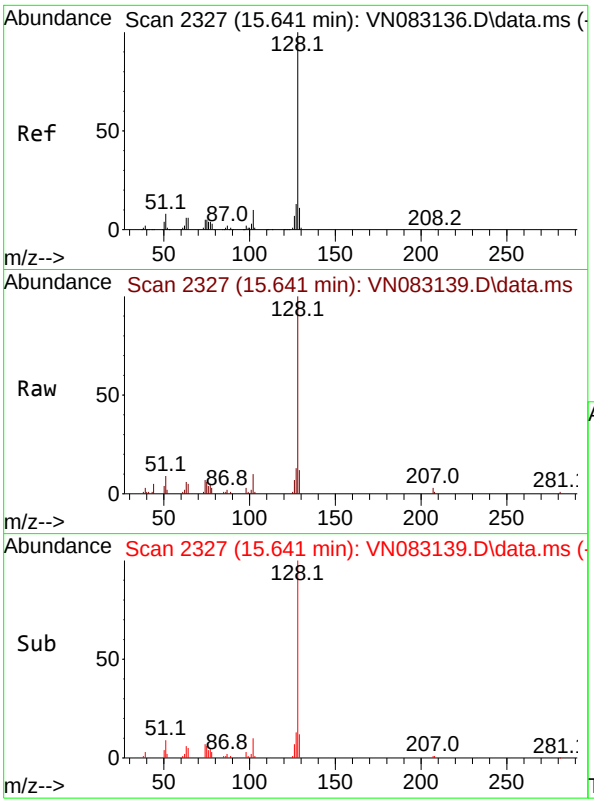


#94
Hexachlorobutadiene
Concen: 5.282 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

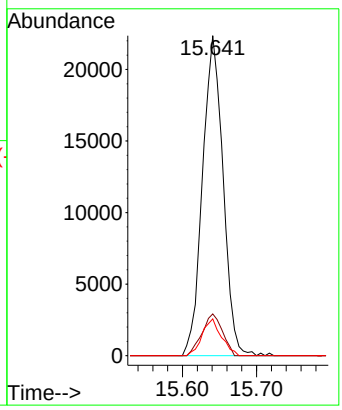




#95
Naphthalene
Concen: 4.811 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:128 Resp: 4313

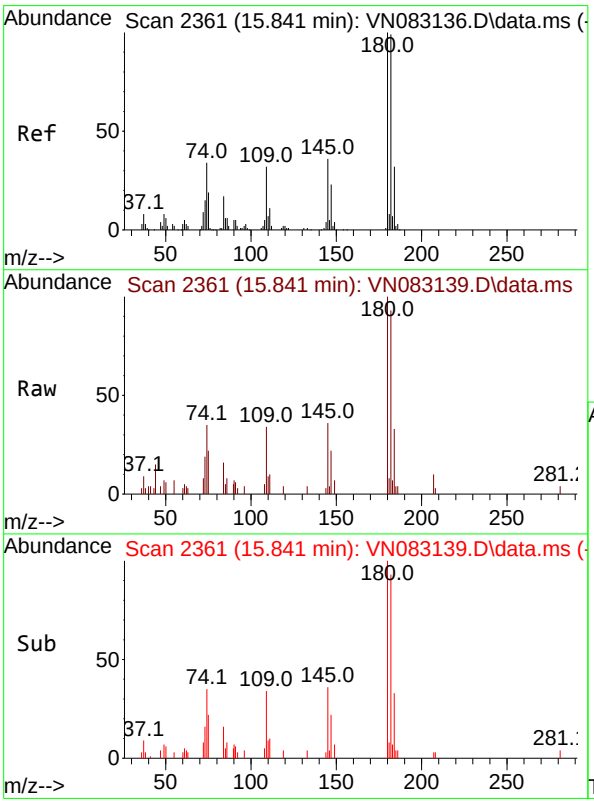
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.6	16.0
129	10.8	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

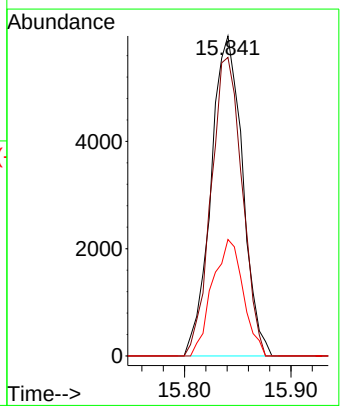
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#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



Quantitation Report (QT Reviewed)

ICAL Form

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 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

ICAL Form

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 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

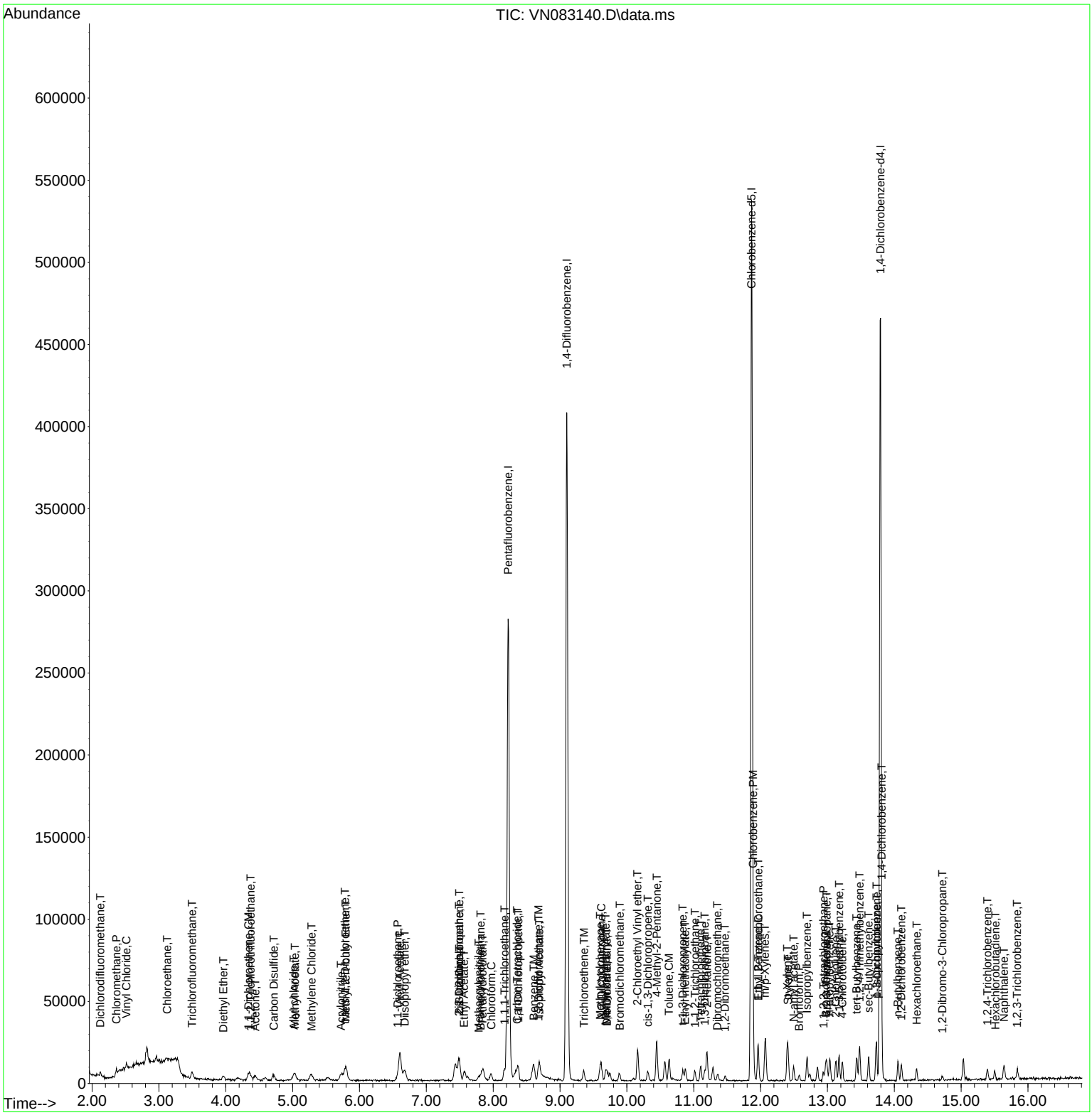
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083140.D
Acq On : 07 Aug 2024 12:34
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

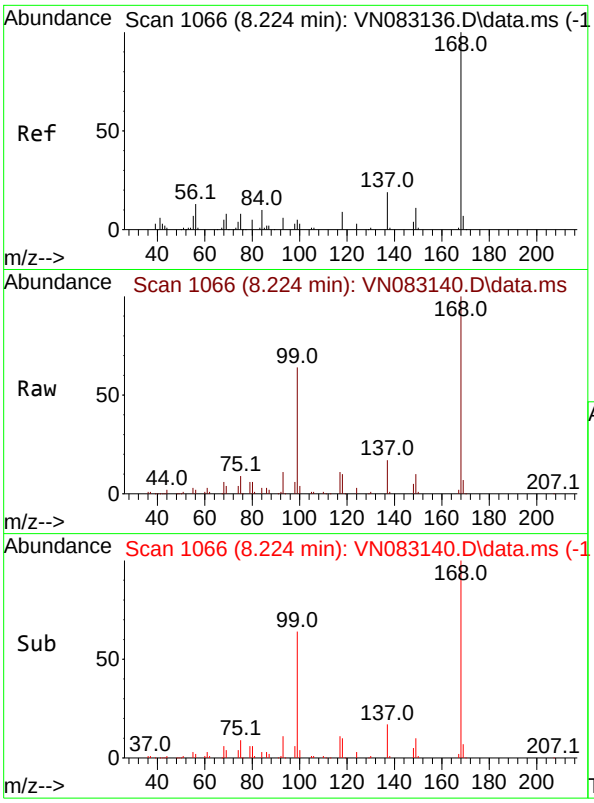
Quant Time: Aug 08 06:19:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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

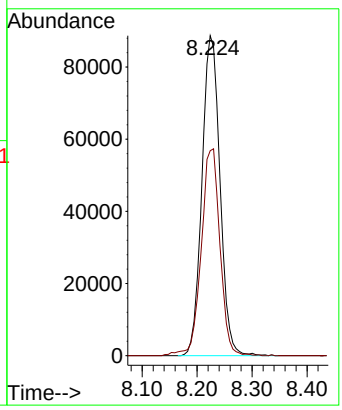




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:168 Resp: 20229

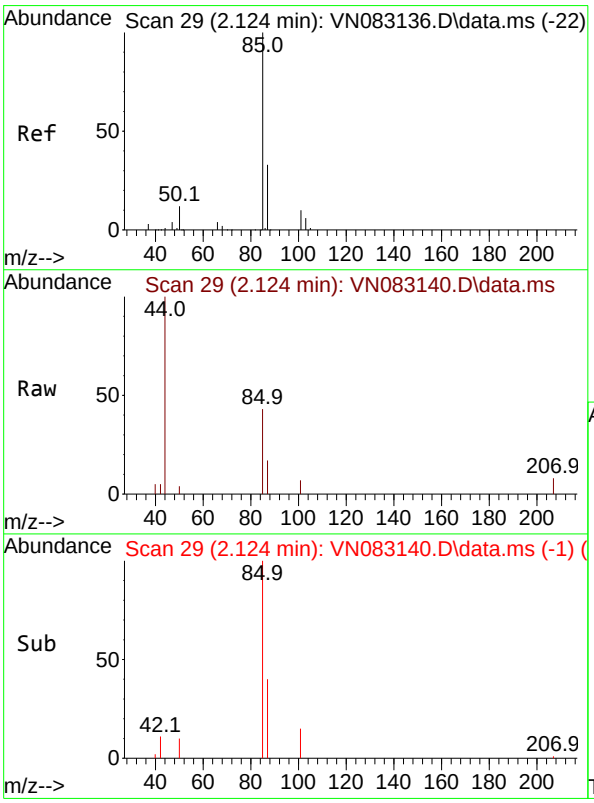
Ion	Ratio	Lower	Upper
168	100		
99	64.1	48.2	72.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

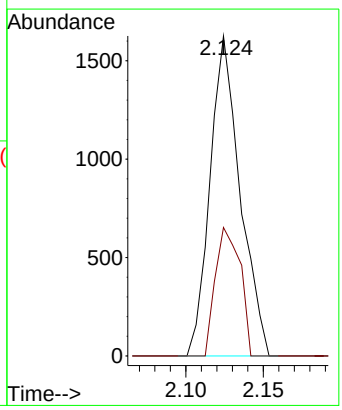
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

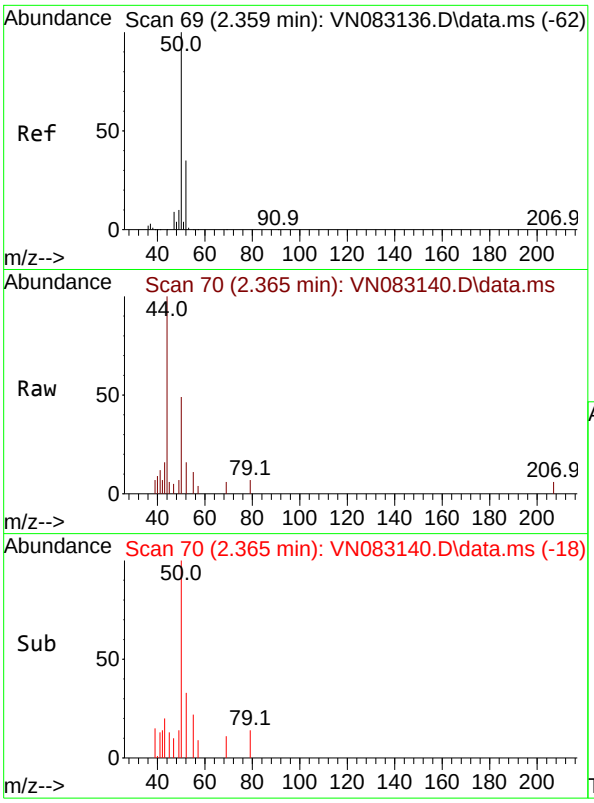


#2
Dichlorodifluoromethane
Concen: 0.956 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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# 7
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

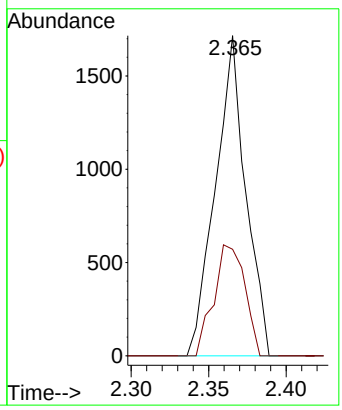
Tgt Ion: 50 Resp: 233

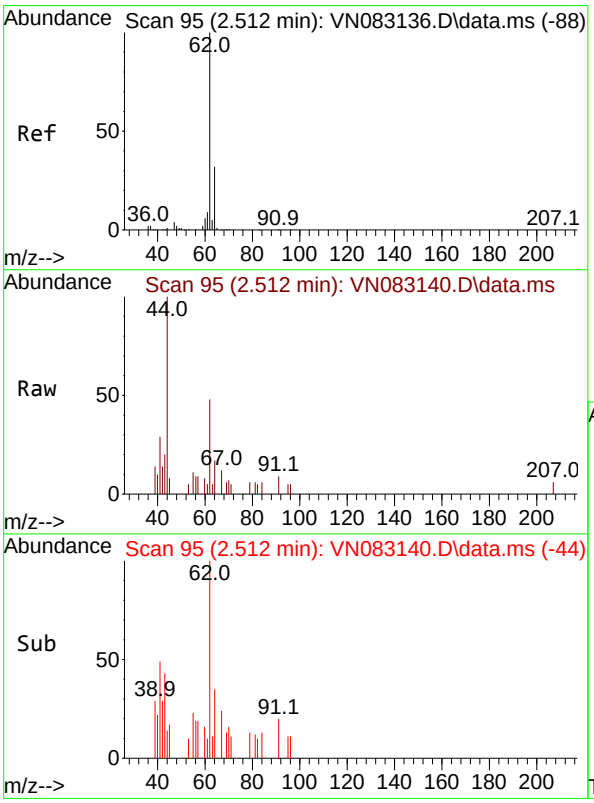
Ion	Ratio	Lower	Upper
50	100		
52	33.3	25.0	37.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

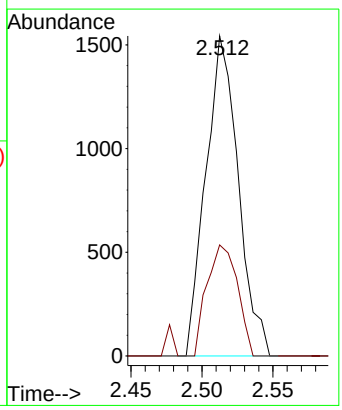


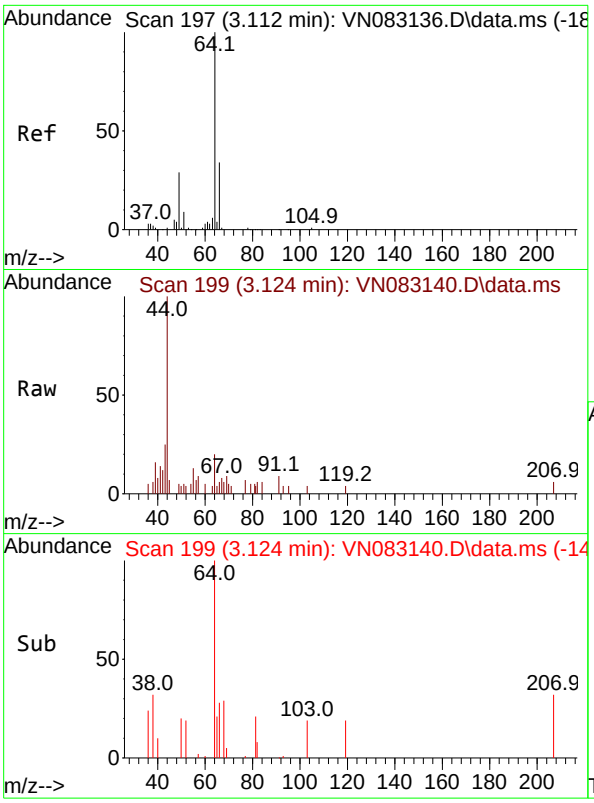


#4
Vinyl Chloride
Concen: 1.025 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 62 Resp: 2457

Ion	Ratio	Lower	Upper
62	100		
64	34.7	25.0	37.6

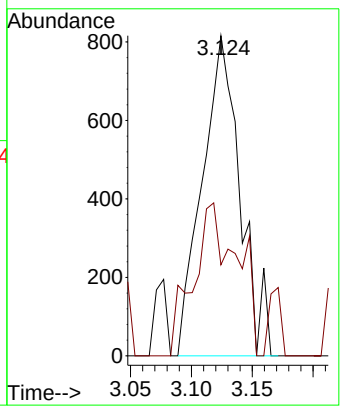




#6
Chloroethane
Concen: 1.176 ug/l
RT: 3.124 min Scan# 1
Delta R.T. 0.012 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 64 Resp: 176

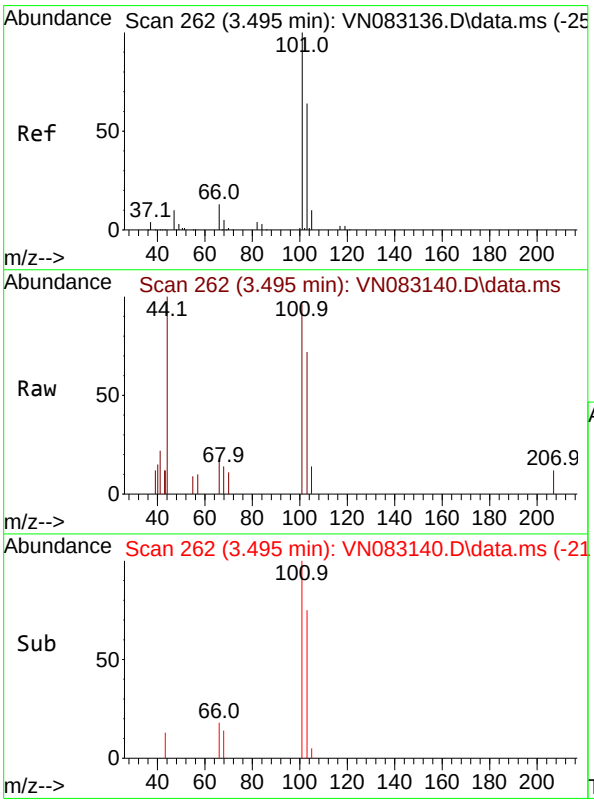
Ion	Ratio	Lower	Upper
64	100		
66	7.1	26.6	40.0#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

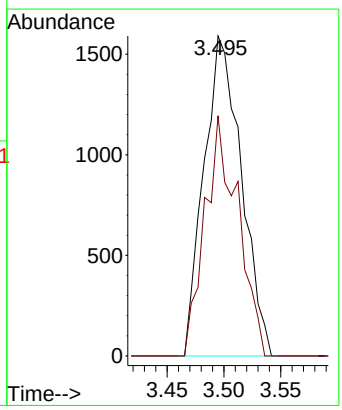
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

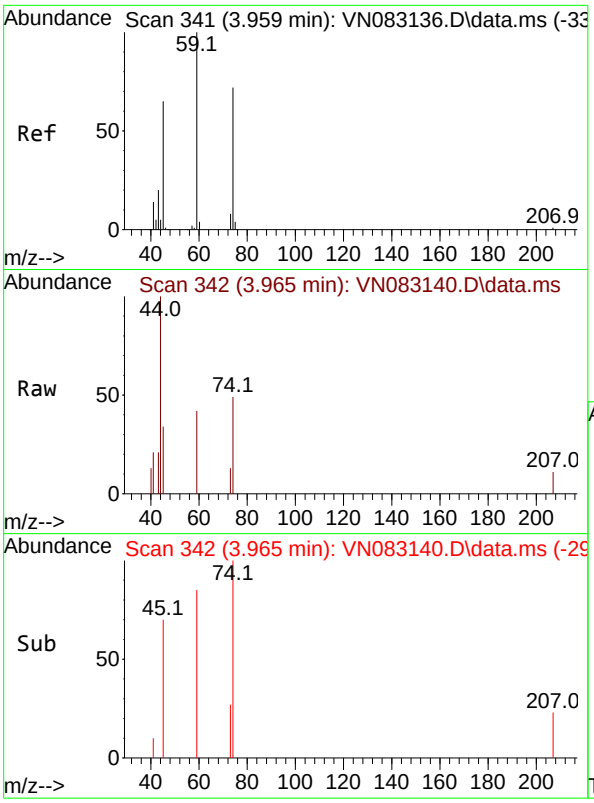


#7
Trichlorofluoromethane
Concen: 0.921 ug/l
RT: 3.495 min Scan# 262
Delta R.T. -0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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# 34
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

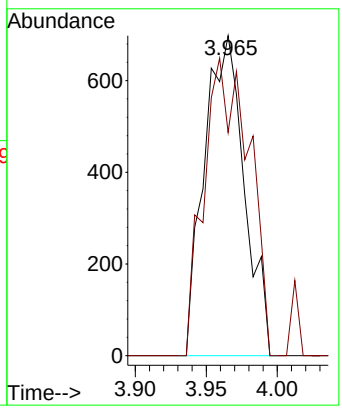
Tgt Ion: 74 Resp: 136

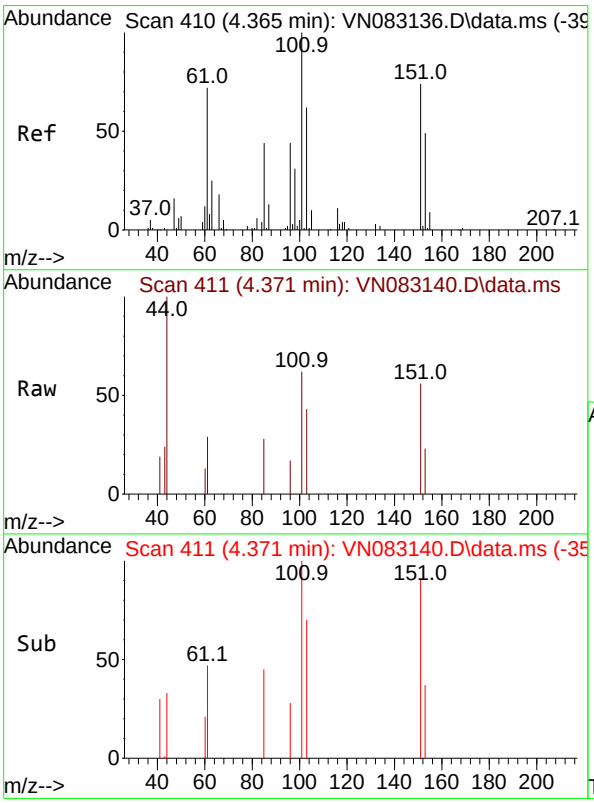
Ion	Ratio	Lower	Upper
74	100		
45	105.1	55.5	166.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

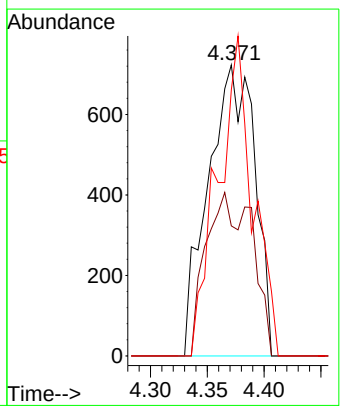


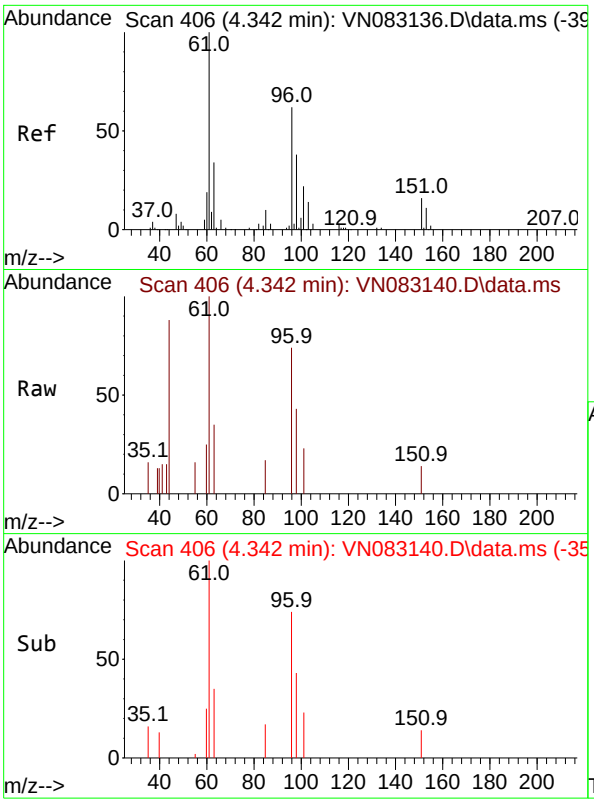


#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.946 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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

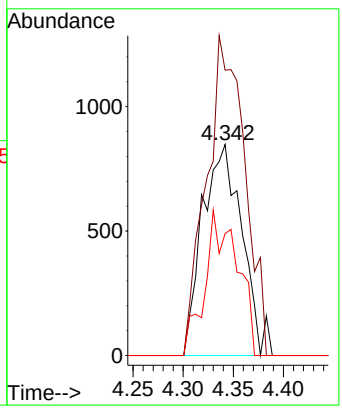




#12
1,1-Dichloroethene
Concen: 1.038 ug/l
RT: 4.342 min Scan# 4(
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 96 Resp: 232

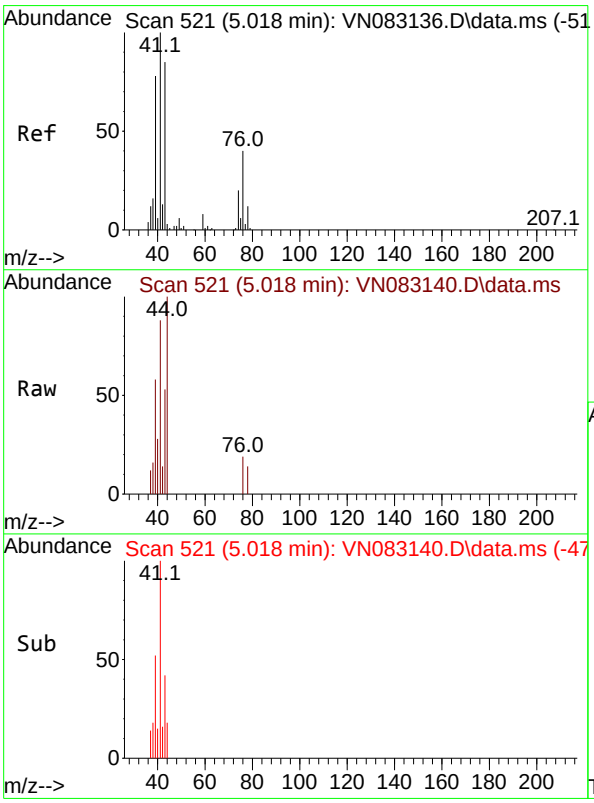
Ion	Ratio	Lower	Upper
96	100		
61	135.3	149.7	224.5#
98	57.8	50.1	75.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

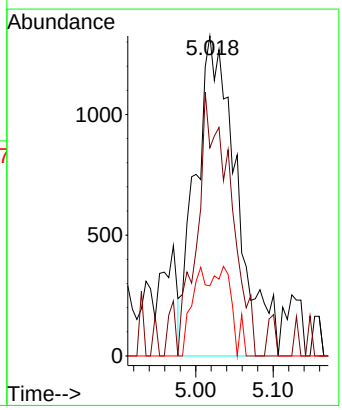
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

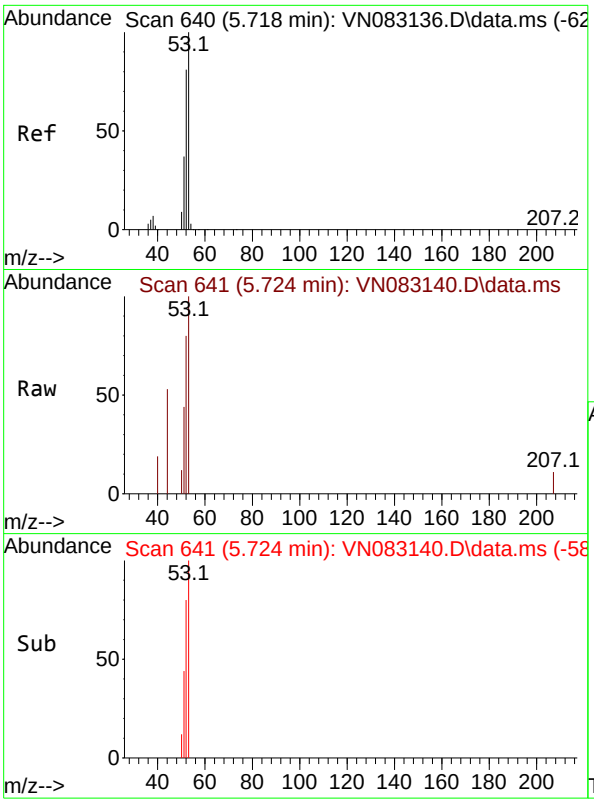


#14
Allyl chloride
Concen: 1.155 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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#

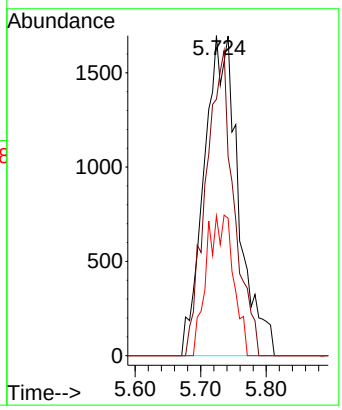




#15
Acrylonitrile
Concen: 5.036 ug/l
RT: 5.724 min Scan# 64
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 53 Resp: 619

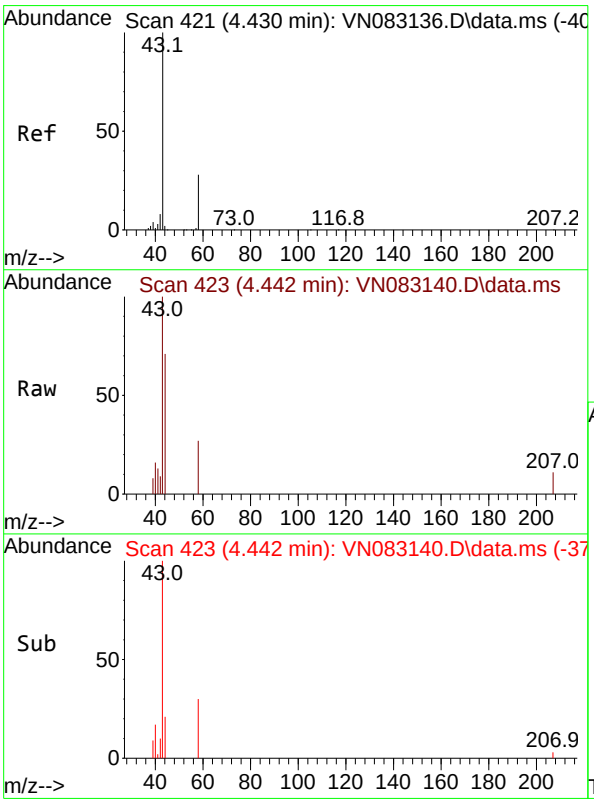
Ion	Ratio	Lower	Upper
53	100		
52	77.5	66.6	100.0
51	34.3	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

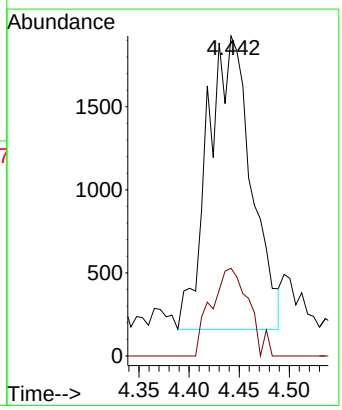
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

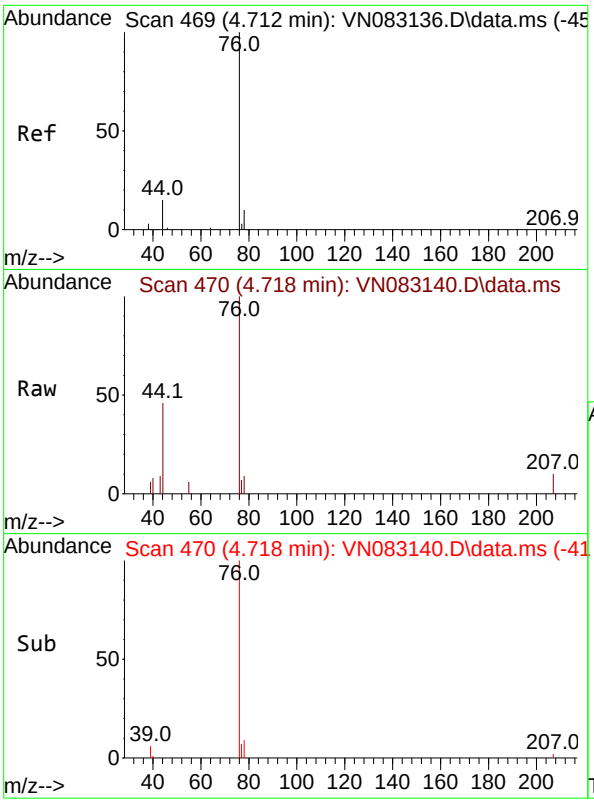


#16
Acetone
Concen: 4.765 ug/l
RT: 4.442 min Scan# 423
Delta R.T. 0.012 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 43 Resp: 5369

Ion	Ratio	Lower	Upper
43	100		
58	29.9	21.8	32.6

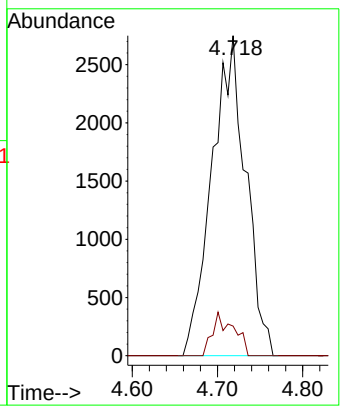




#17
Carbon Disulfide
Concen: 1.159 ug/l
RT: 4.718 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 76 Resp: 760

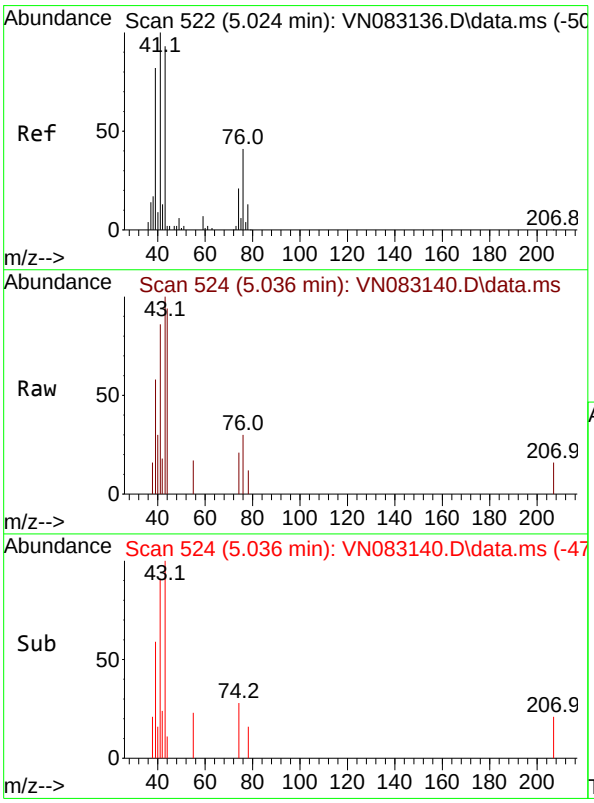
Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

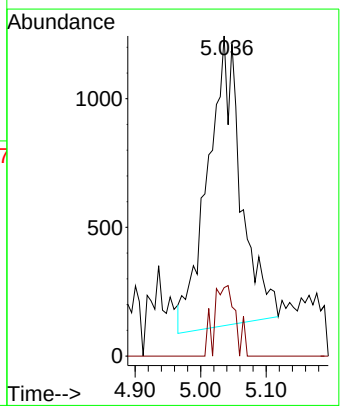
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

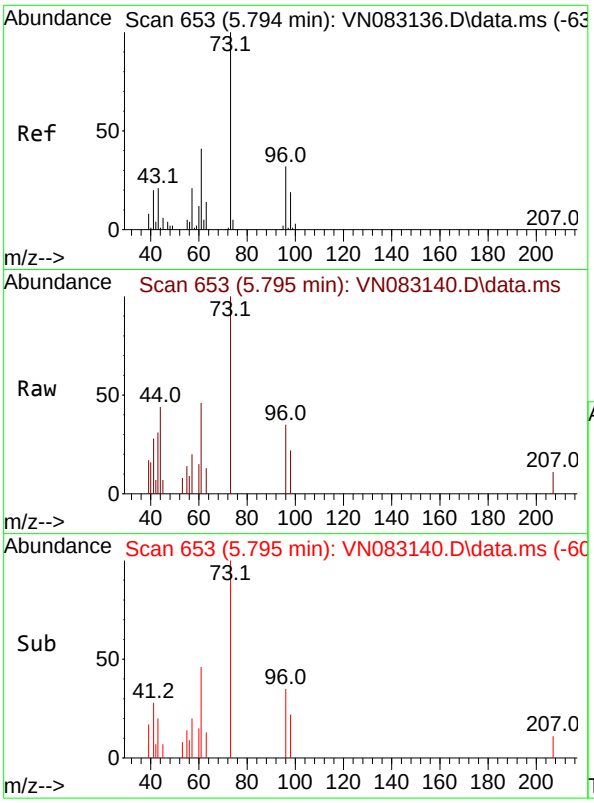


#18
Methyl Acetate
Concen: 1.188 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.012 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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# 6
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

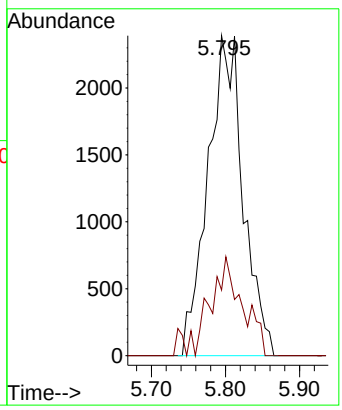
Tgt Ion: 73 Resp: 790

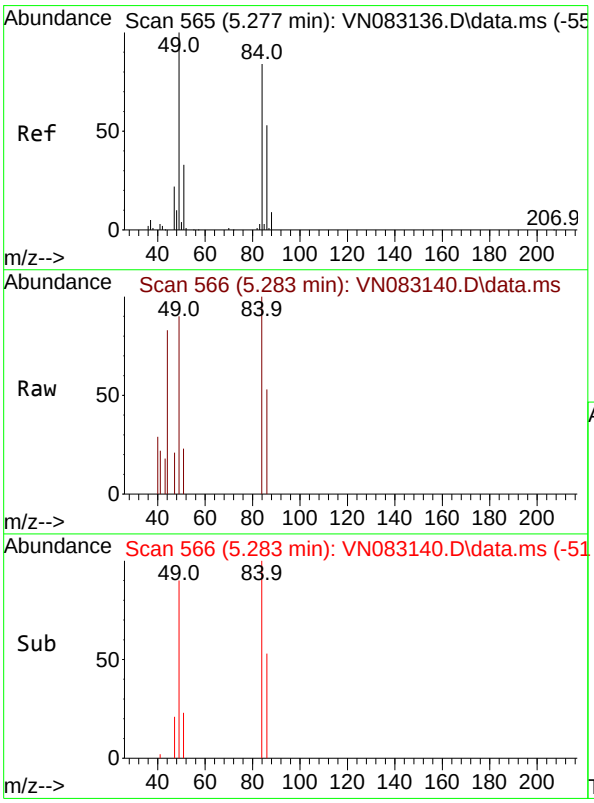
Ion	Ratio	Lower	Upper
73	100		
57	20.5	17.9	26.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

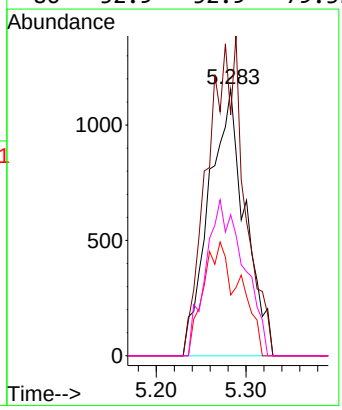


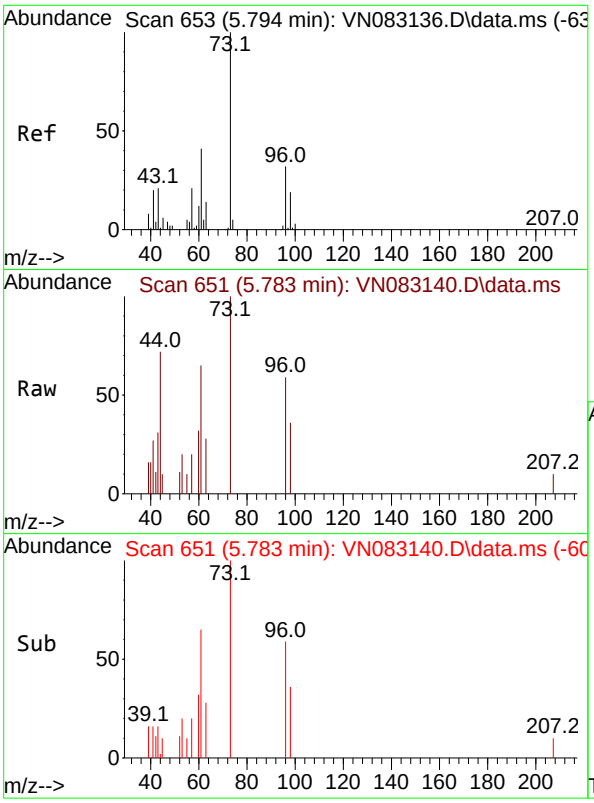


#20
Methylene Chloride
Concen: 1.255 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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#

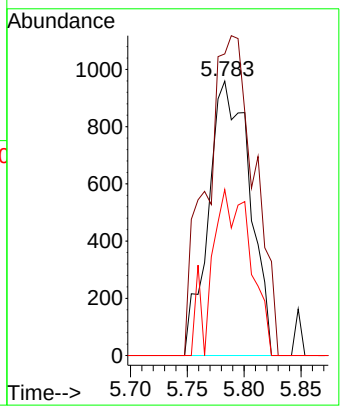




#21
trans-1,2-Dichloroethene
Concen: 1.046 ug/l
RT: 5.783 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 96 Resp: 242

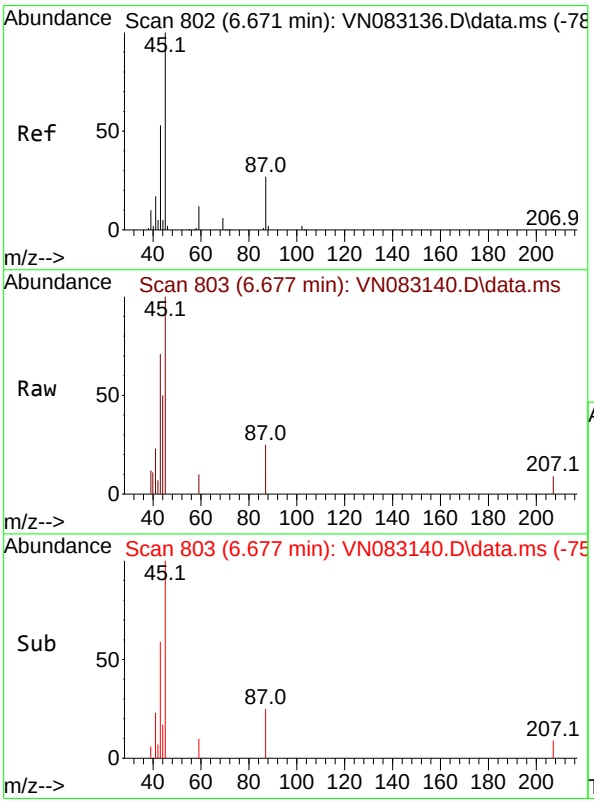
Ion	Ratio	Lower	Upper
96	100		
61	109.9	123.4	185.2
98	60.5	49.3	73.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

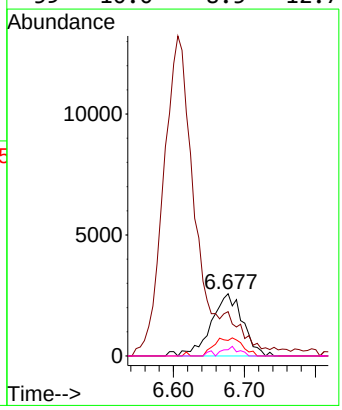
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

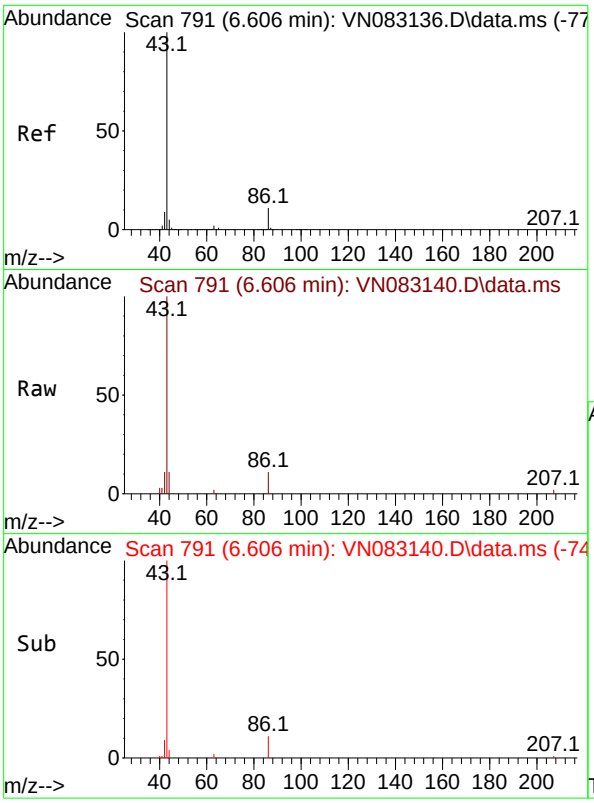


#22
Diisopropyl ether
Concen: 0.988 ug/l
RT: 6.677 min Scan# 803
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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# 7
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

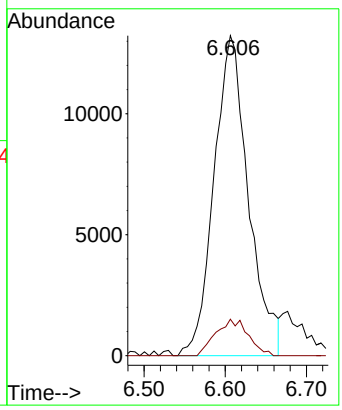
Tgt Ion: 43 Resp: 3904

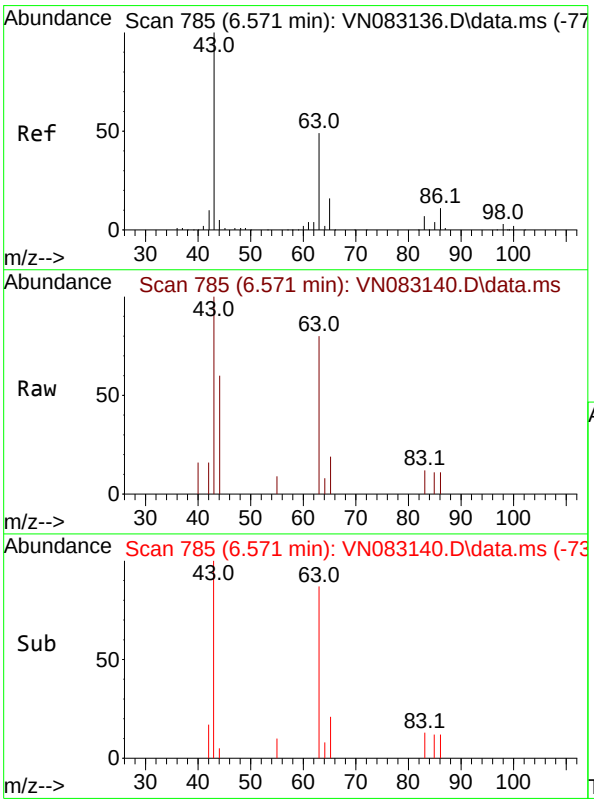
Ion	Ratio	Lower	Upper
43	100		
86	11.4	7.3	10.9#

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

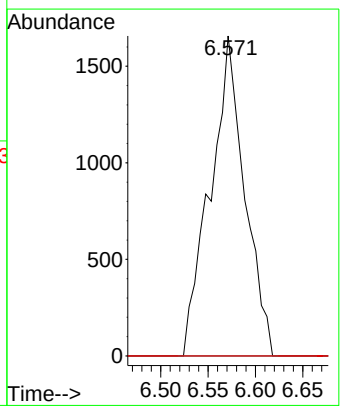


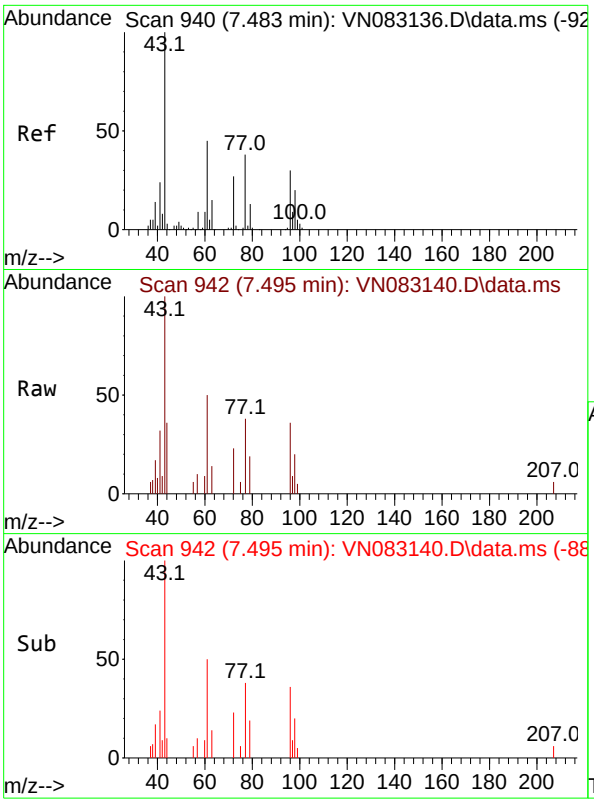


#24
1,1-Dichloroethane
Concen: 0.965 ug/l
RT: 6.571 min Scan# 785
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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# 94
Delta R.T. 0.012 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

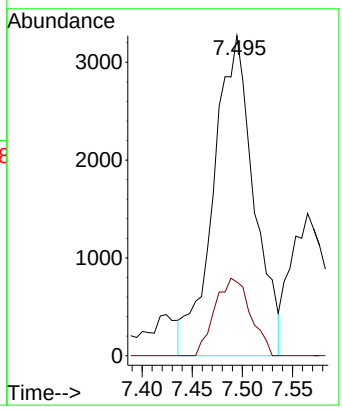
Tgt Ion: 43 Resp: 916

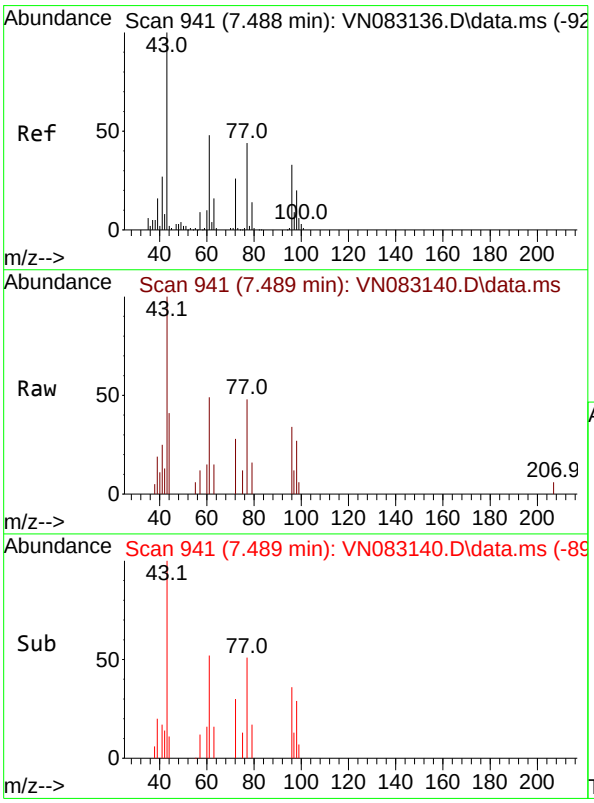
Ion	Ratio	Lower	Upper
43	100		
72	25.9	18.2	27.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

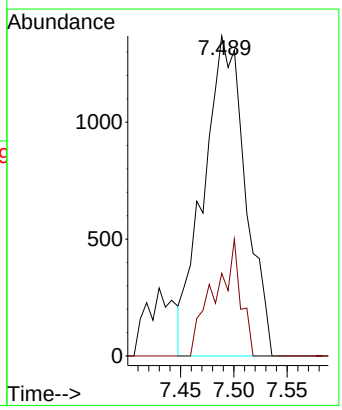


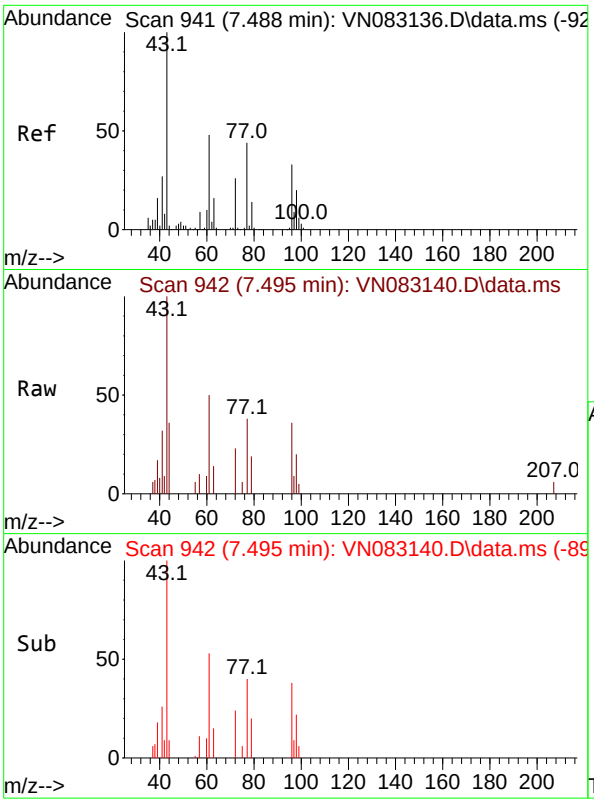


#26
2,2-Dichloropropane
Concen: 0.928 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 77 Resp: 3741

Ion	Ratio	Lower	Upper
77	100		
97	22.9	10.3	30.9

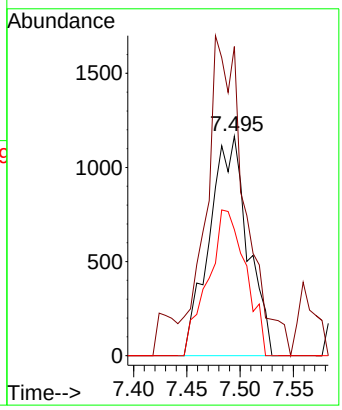




#27
cis-1,2-Dichloroethene
Concen: 1.044 ug/l
RT: 7.495 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 96 Resp: 291

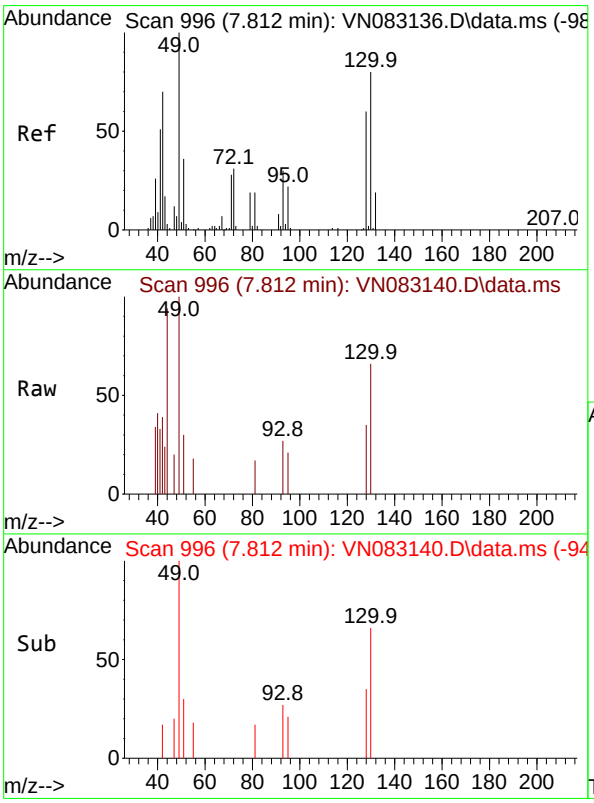
Ion	Ratio	Lower	Upper
96	100		
61	146.7	0.0	329.6
98	65.4	0.0	128.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

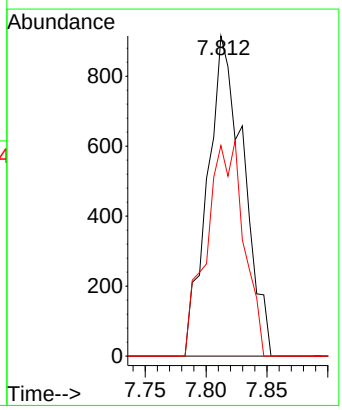
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

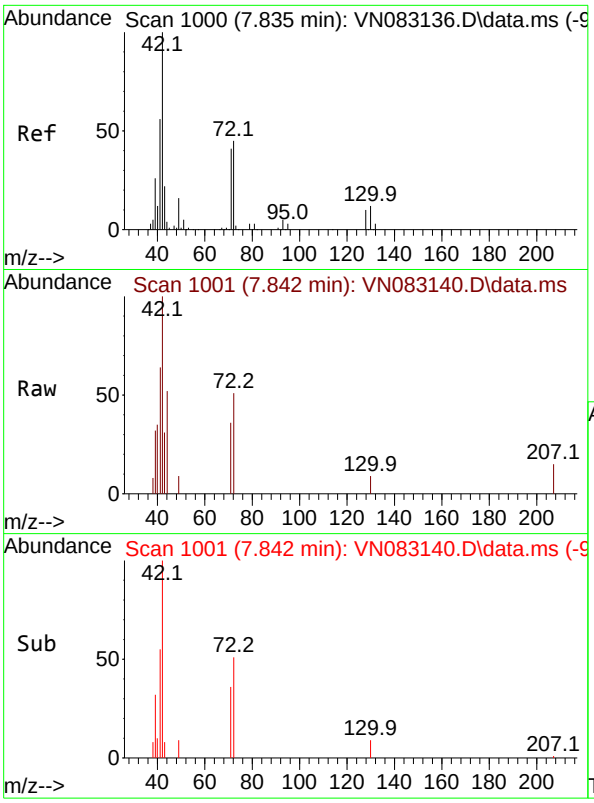


#28
Bromochloromethane
Concen: 1.061 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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

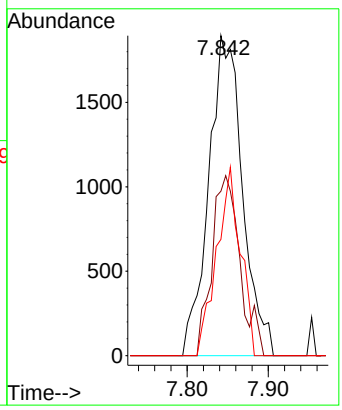




#29
Tetrahydrofuran
Concen: 4.909 ug/l
RT: 7.842 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 42 Resp: 549

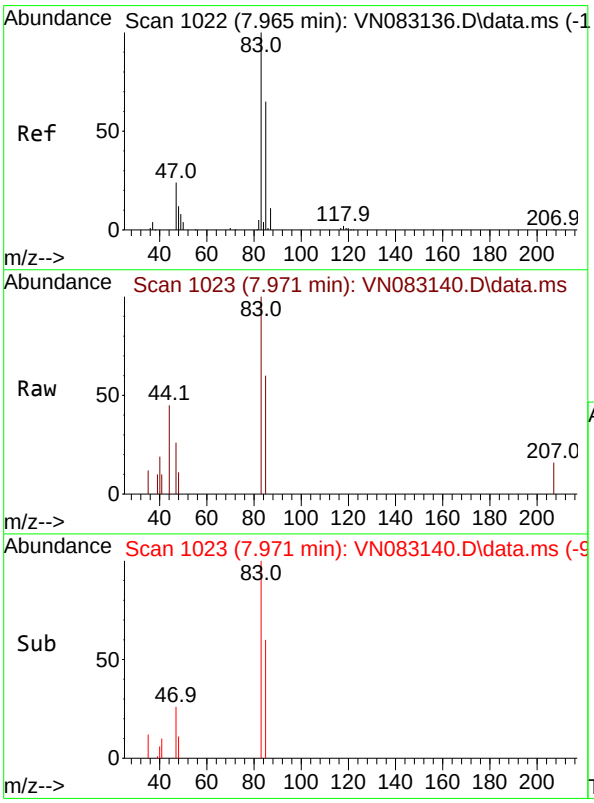
Ion	Ratio	Lower	Upper
42	100		
72	46.5	30.0	45.0
71	41.2	28.3	42.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

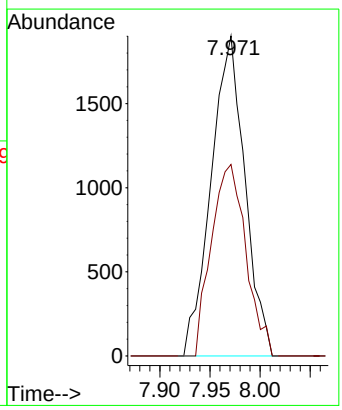
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

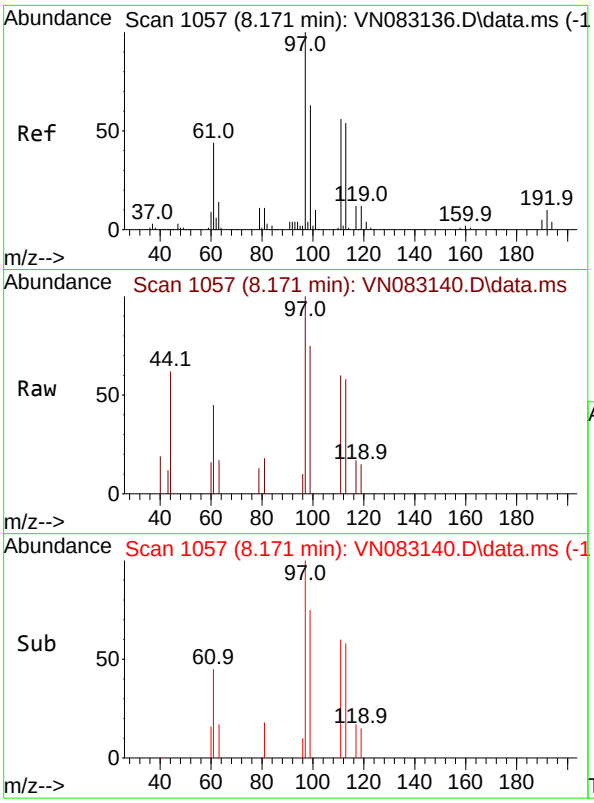


#30
Chloroform
Concen: 0.988 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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# 1
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

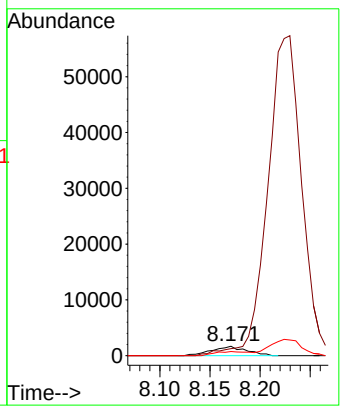
Tgt Ion: 97 Resp: 407

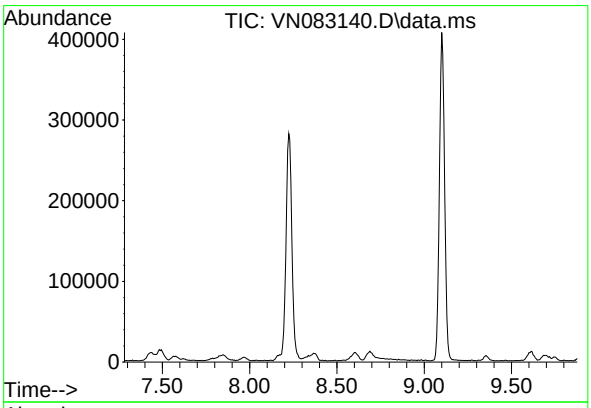
Ion	Ratio	Lower	Upper
97	100		
99	0.0	52.0	78.0#
61	44.6	42.1	63.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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



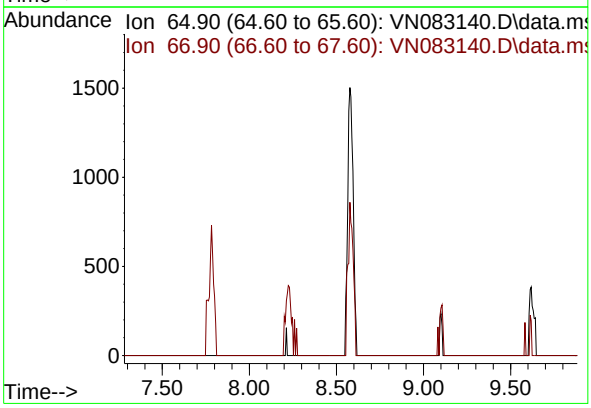


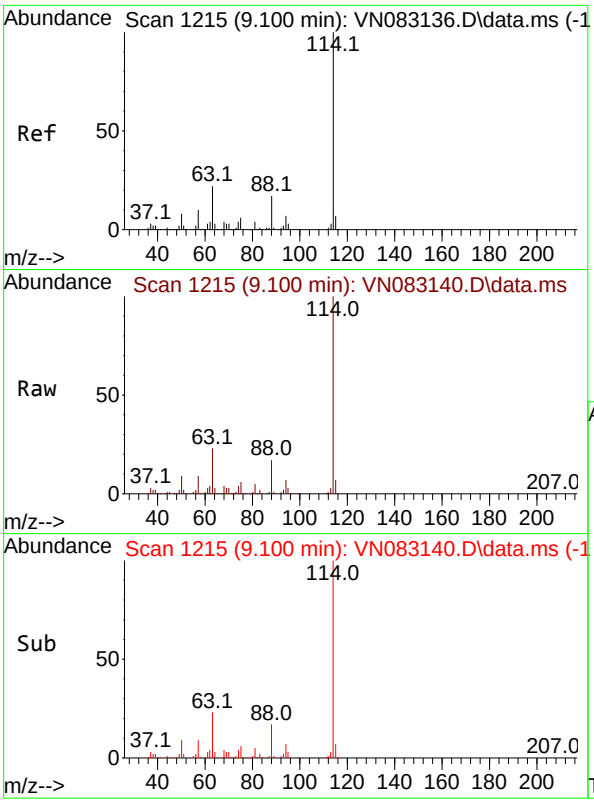
#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 8.58 min

Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 65

Sig	Exp Ratio
65	100
67	52.2





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

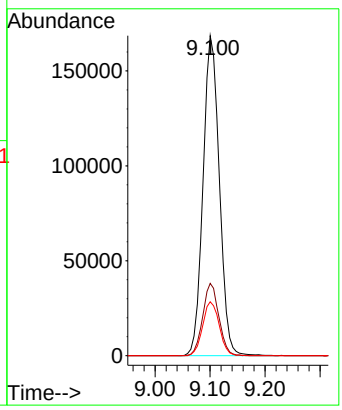
Tgt Ion:114 Resp: 34739

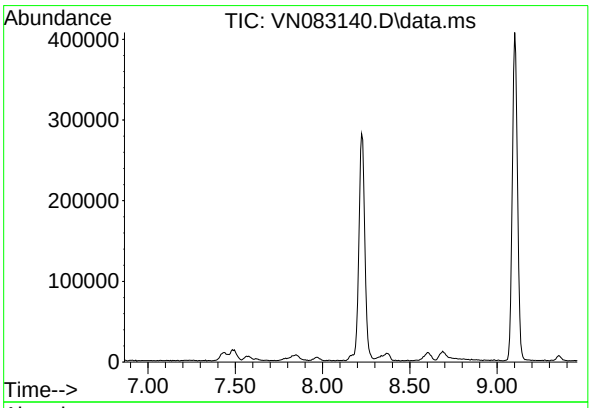
Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	44.6
88	16.9	0.0	31.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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



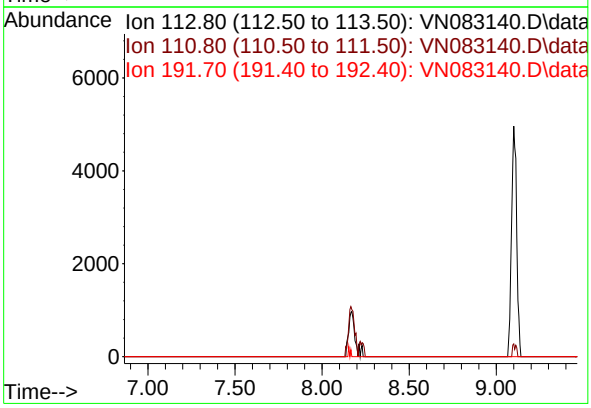


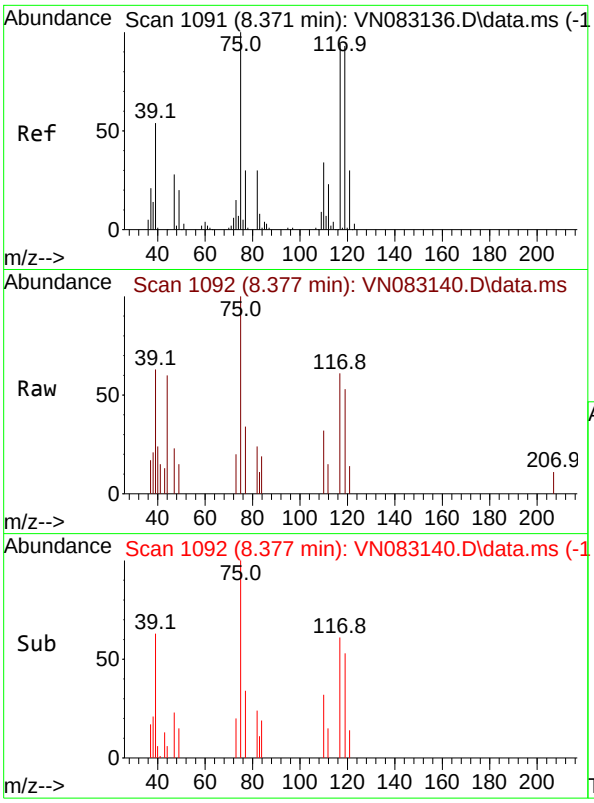
#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 8.16 min

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# 1
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

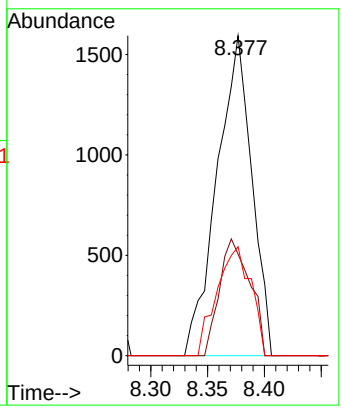
Tgt Ion: 75 Resp: 339

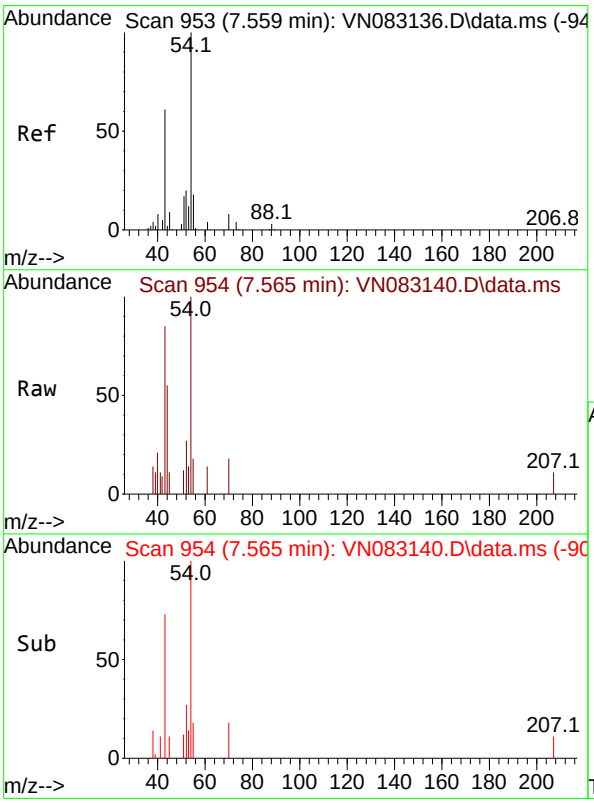
Ion	Ratio	Lower	Upper
75	100		
110	32.0	16.3	48.9
77	33.3	24.6	37.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

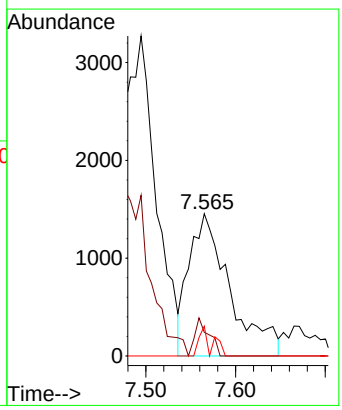


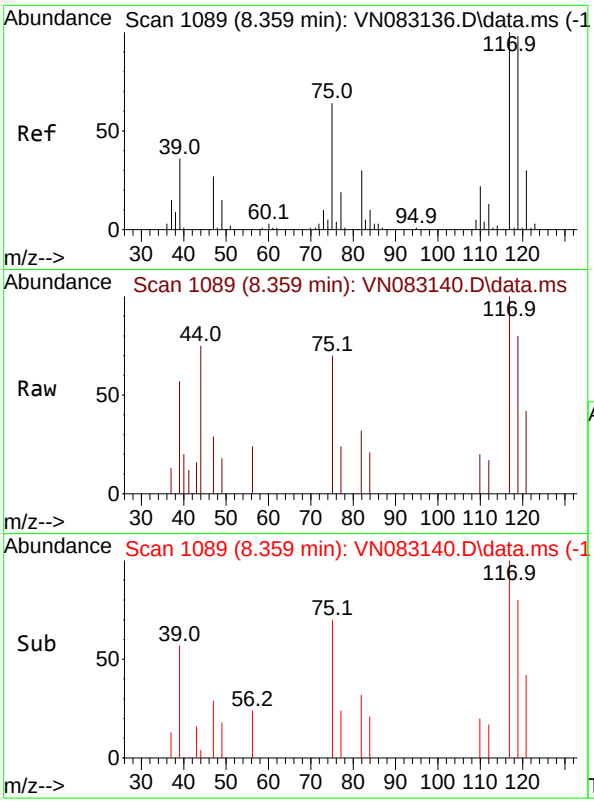


#37
Ethyl Acetate
Concen: 1.257 ug/l
RT: 7.565 min Scan# 954
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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# 1
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

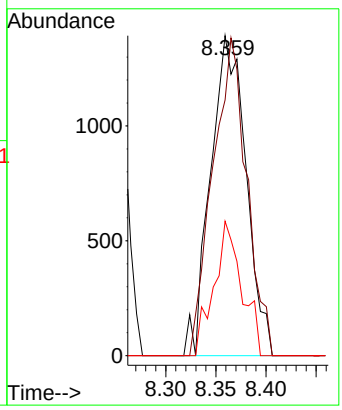
Tgt Ion:117 Resp: 342

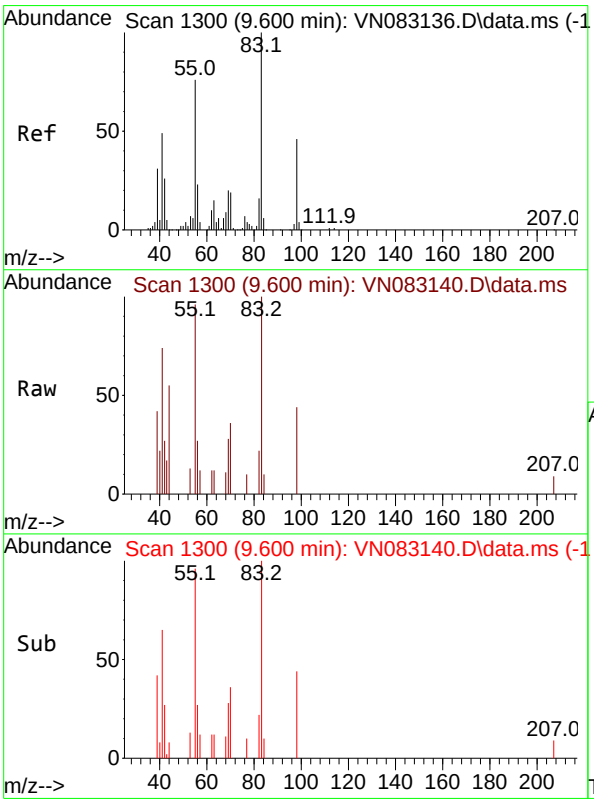
Ion	Ratio	Lower	Upper
117	100		
119	79.9	74.9	112.3
121	42.0	24.3	36.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

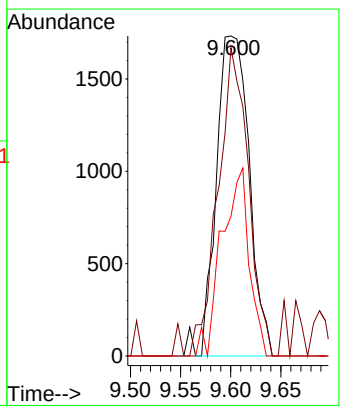


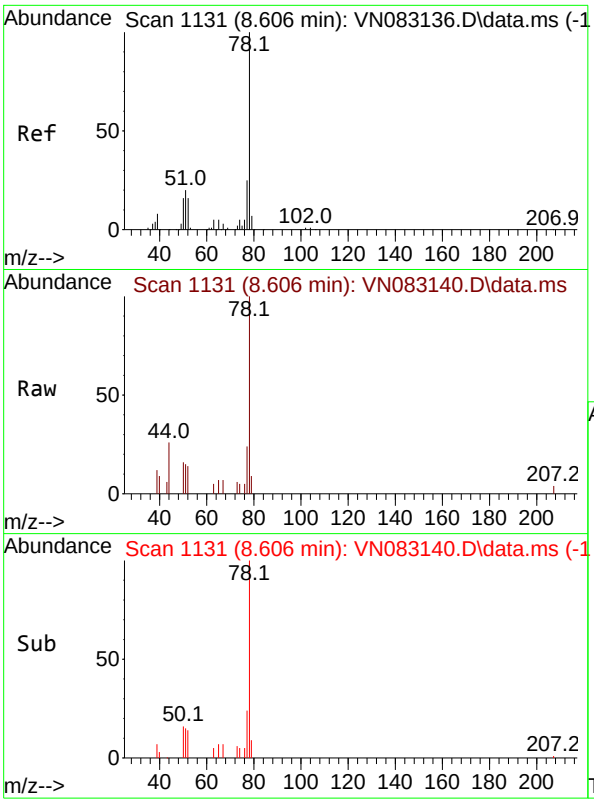


#39
Methylcyclohexane
Concen: 0.986 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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# 1
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

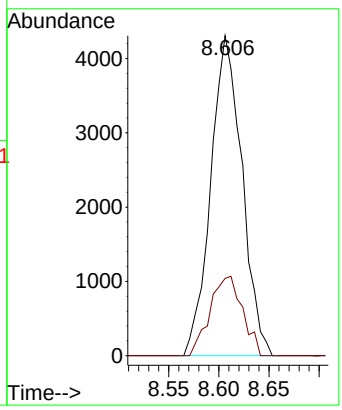
Tgt Ion: 78 Resp: 933

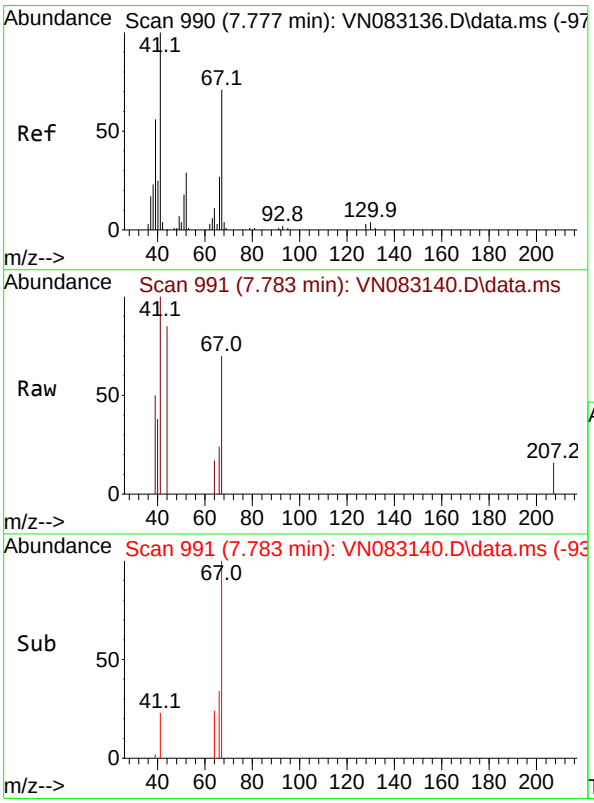
Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.0	28.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

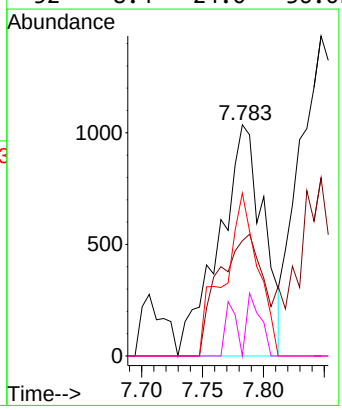


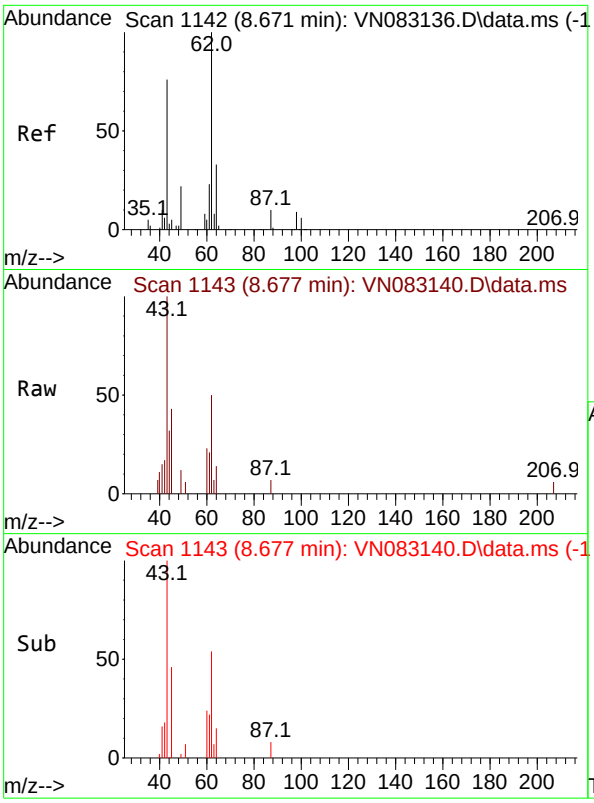


#41
Methacrylonitrile
Concen: 1.254 ug/l
RT: 7.783 min Scan# 991
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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# 1
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

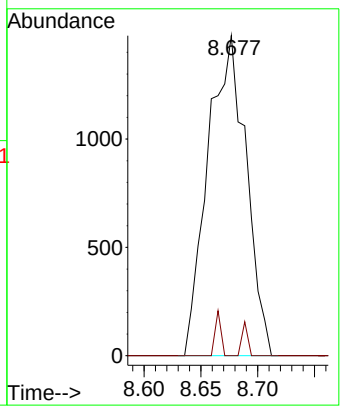
Tgt Ion: 62 Resp: 345

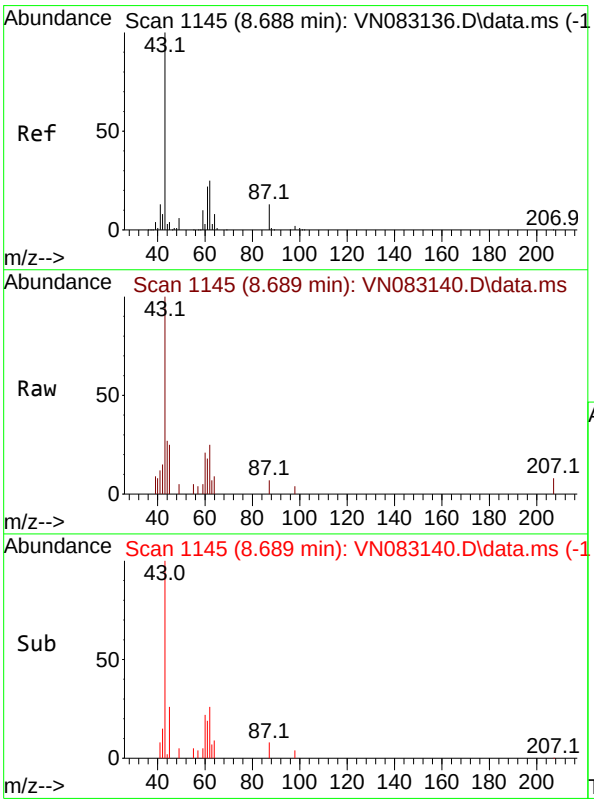
Ion	Ratio	Lower	Upper
62	100		
98	1.6	0.0	15.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

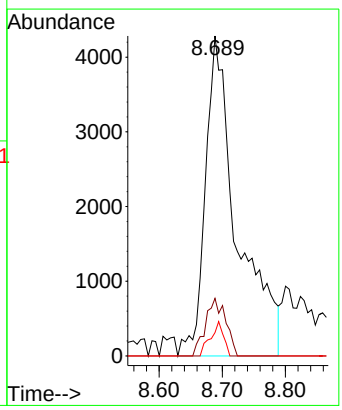


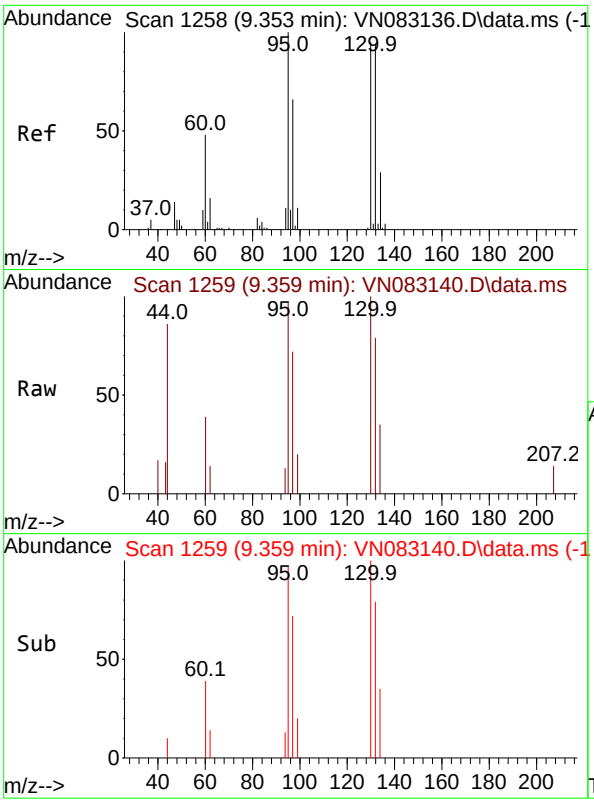


#43
Isopropyl Acetate
Concen: 0.753 ug/l
RT: 8.689 min Scan# 1145
Delta R.T. 0.001 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 43 Resp: 14981

Ion	Ratio	Lower	Upper
43	100		
61	11.5	17.8	26.6#
87	4.4	8.2	12.2#





#44
Trichloroethene
Concen: 0.925 ug/l
RT: 9.359 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

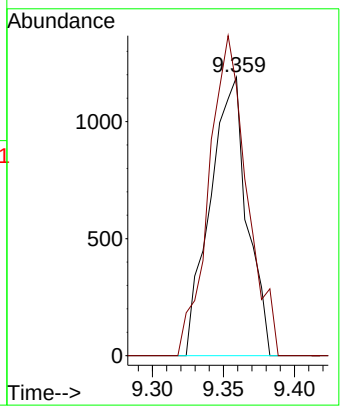
Tgt Ion:130 Resp: 215

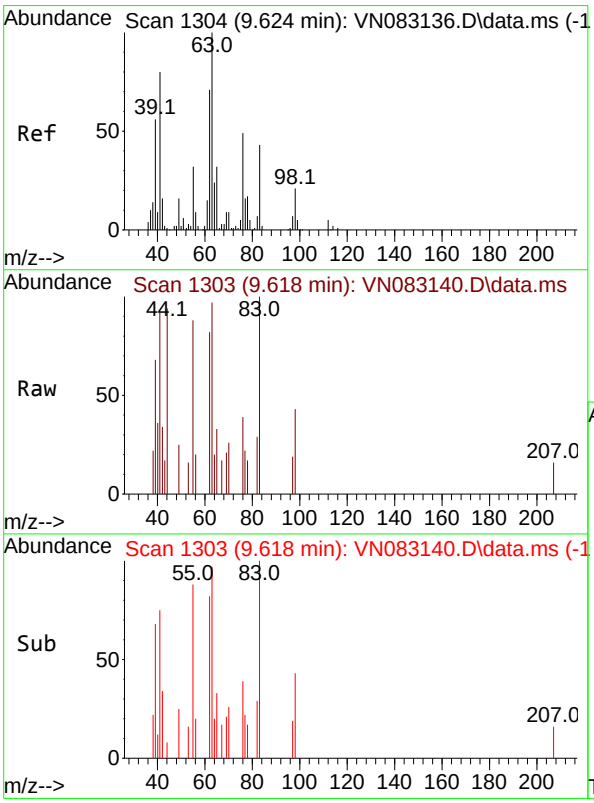
Ion	Ratio	Lower	Upper
130	100		
95	96.7	0.0	197.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

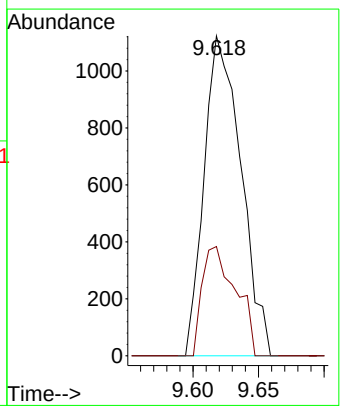


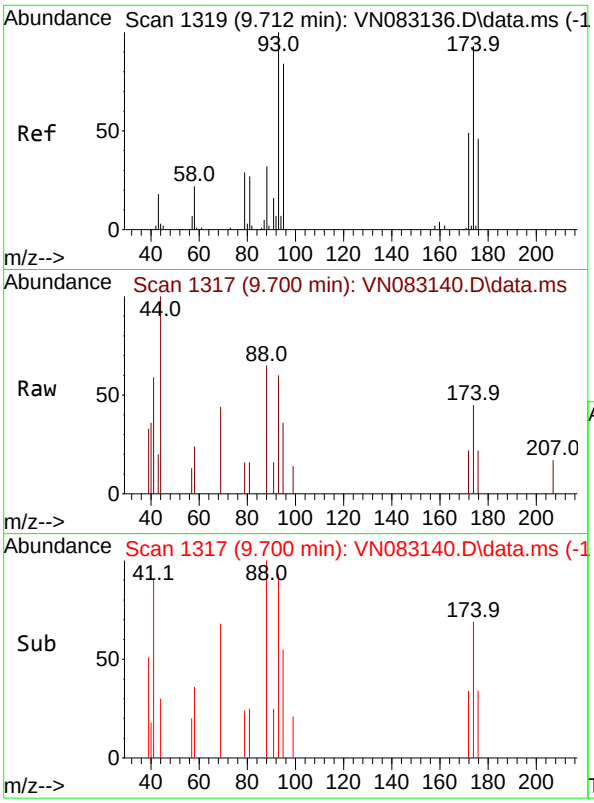


#45
1,2-Dichloropropane
Concen: 0.946 ug/l
RT: 9.618 min Scan# 1303
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 63 Resp: 2194

Ion	Ratio	Lower	Upper
63	100		
65	34.2	24.4	36.6

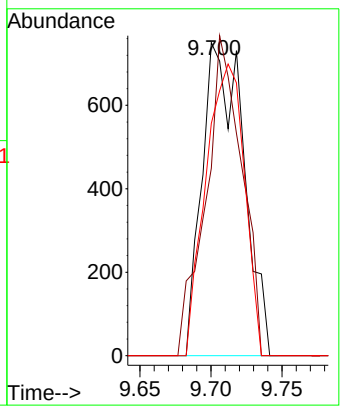




#46
Dibromomethane
Concen: 0.911 ug/l
RT: 9.700 min Scan# 1
Delta R.T. -0.012 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 93 Resp: 151

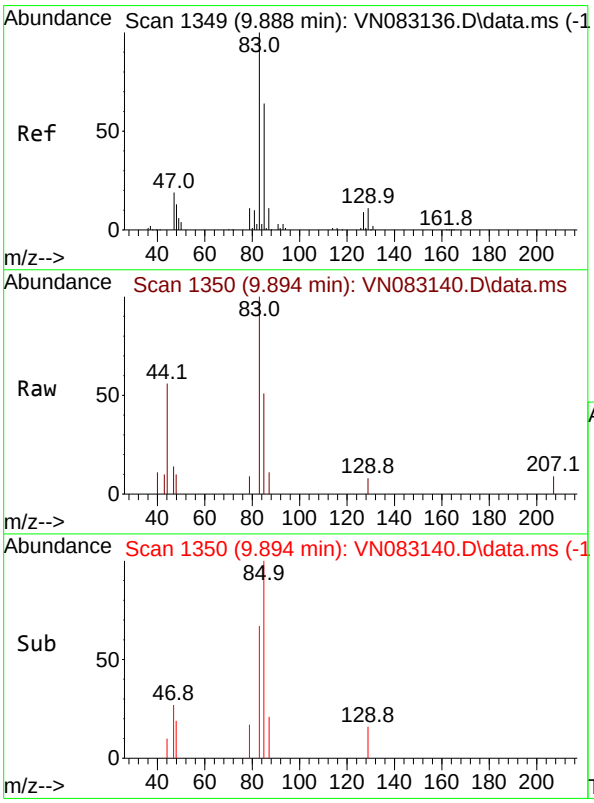
Ion	Ratio	Lower	Upper
93	100		
95	89.4	65.8	98.6
174	87.3	71.7	107.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

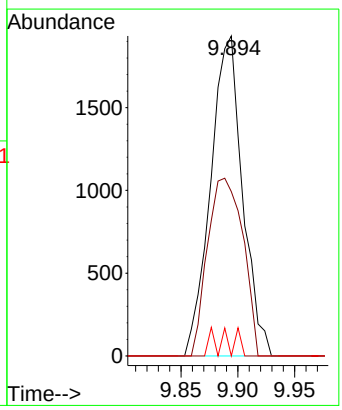
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

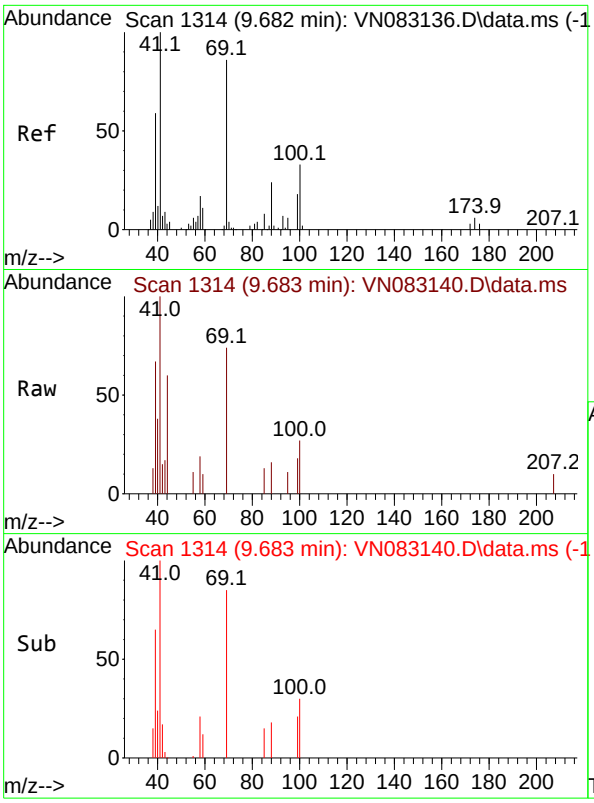


#47
Bromodichloromethane
Concen: 1.015 ug/l
RT: 9.894 min Scan# 1350
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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#

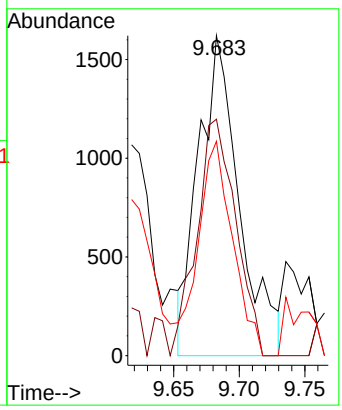




#48
Methyl methacrylate
Concen: 1.159 ug/l
RT: 9.683 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 41 Resp: 351

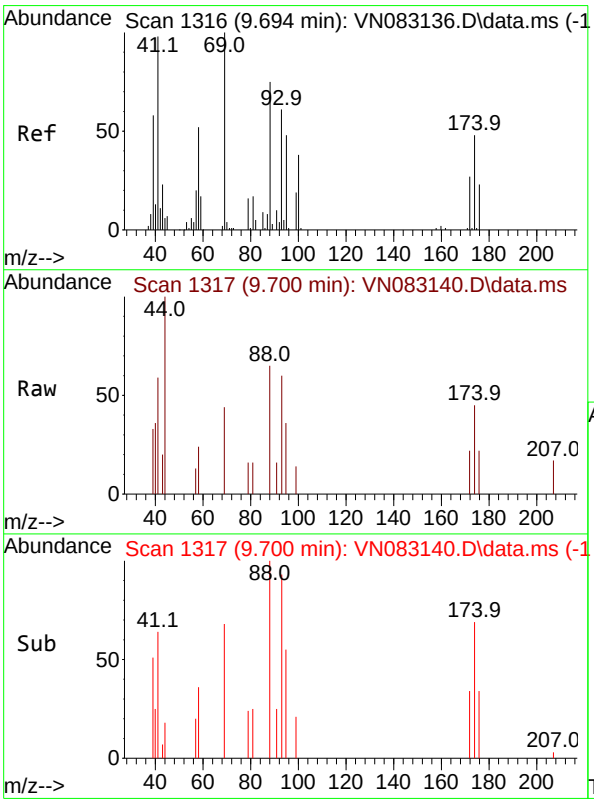
Ion	Ratio	Lower	Upper
41	100		
69	70.6	56.3	84.5
39	57.3	50.3	75.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

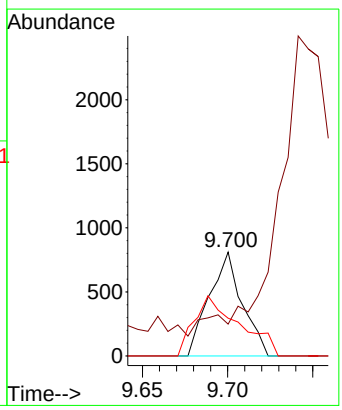
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

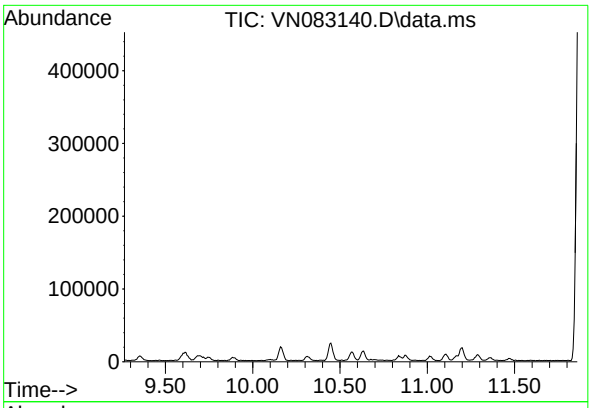


#49
1,4-Dioxane
Concen: 19.880 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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

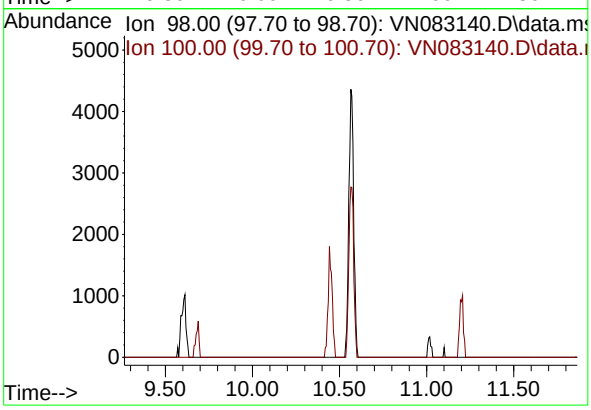
Tgt Ion: 98

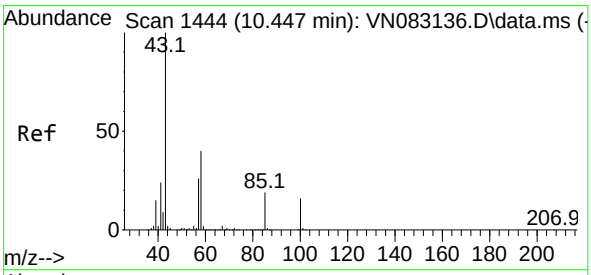
Sig	Exp Ratio
98	100
100	64.4

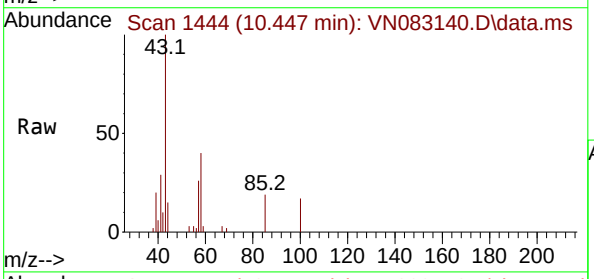
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

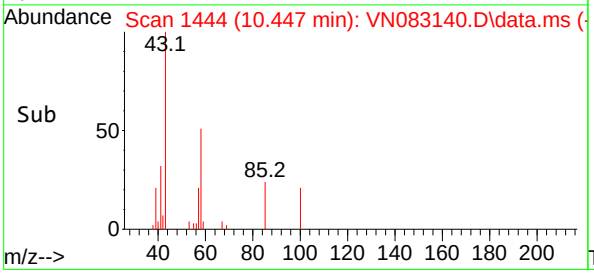
Manual Integrations
APPROVED

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





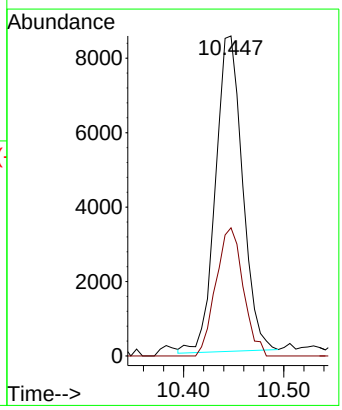


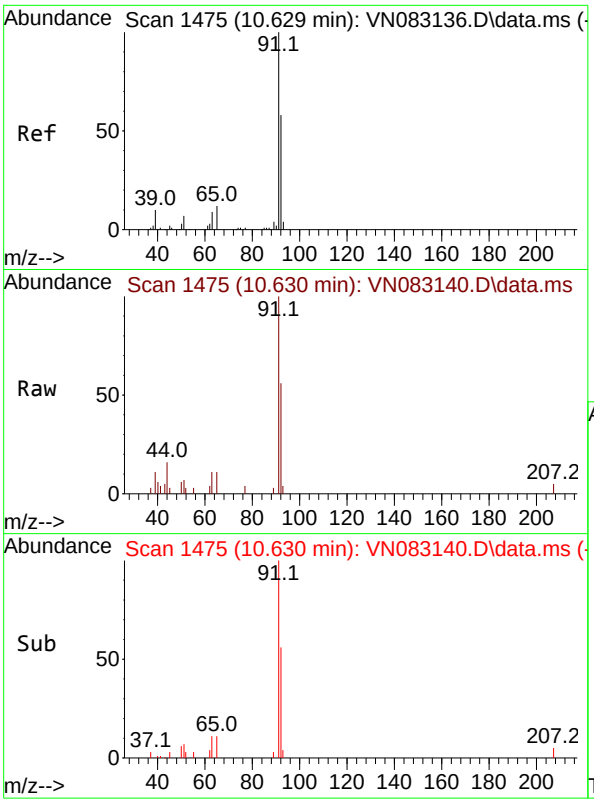


#51
4-Methyl-2-Pentanone
Concen: 4.570 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 43 Resp: 15872

Ion	Ratio	Lower	Upper
43	100		
58	41.1	28.2	42.4

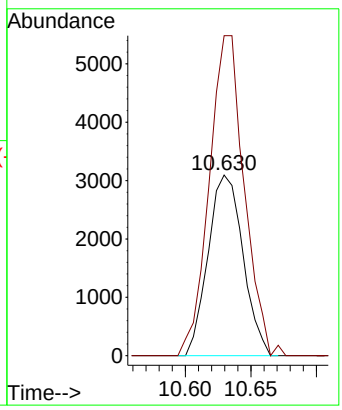




#52
Toluene
Concen: 0.927 ug/l
RT: 10.630 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 92 Resp: 572

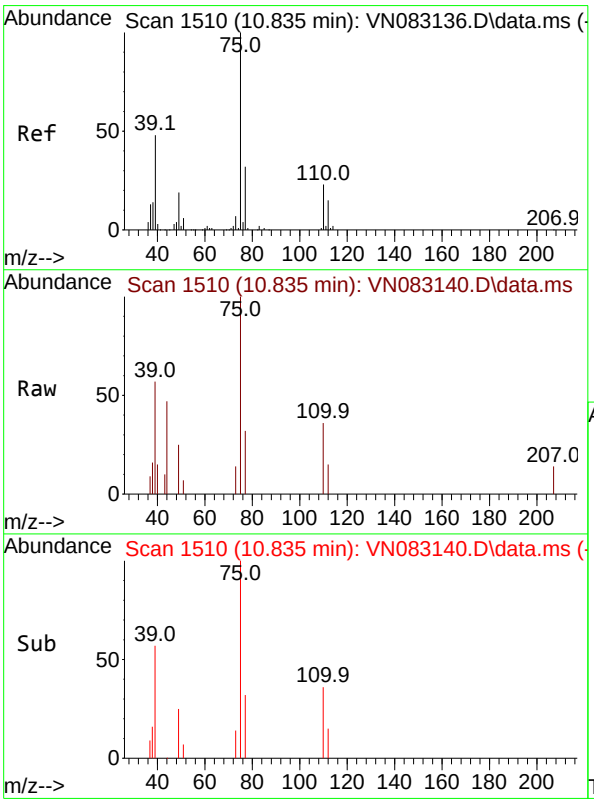
Ion	Ratio	Lower	Upper
92	100		
91	178.1	139.4	209.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

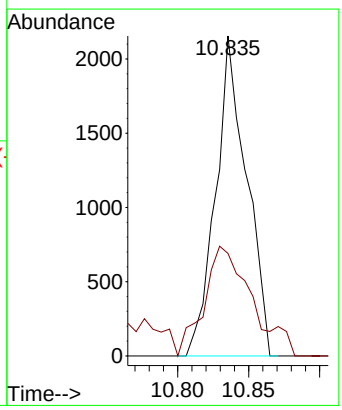
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

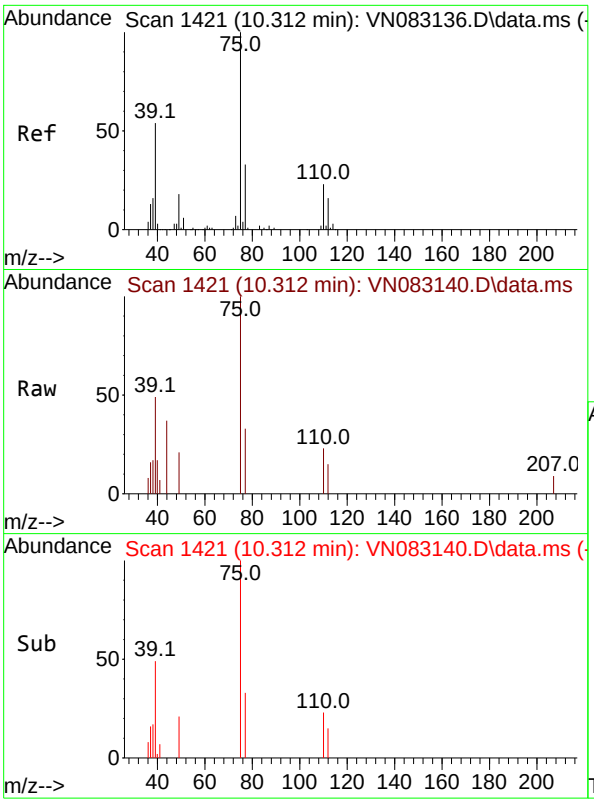


#53
t-1,3-Dichloropropene
Concen: 0.851 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 75 Resp: 3260

Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.7	38.5

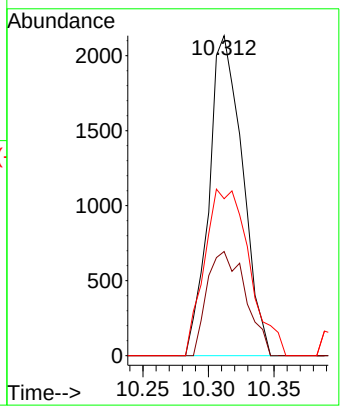




#54
cis-1,3-Dichloropropene
Concen: 0.932 ug/l
RT: 10.312 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 75 Resp: 379

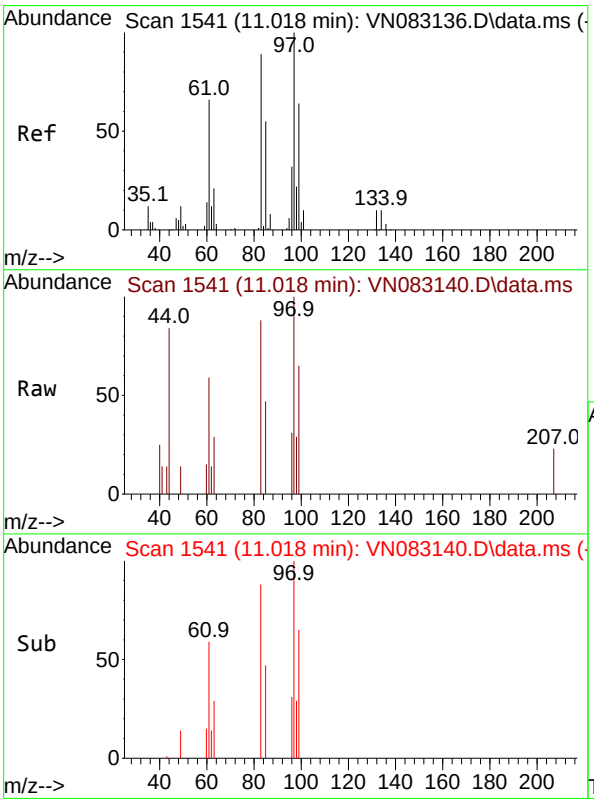
Ion	Ratio	Lower	Upper
75	100		
77	32.5	24.3	36.5
39	49.0	50.5	75.7#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

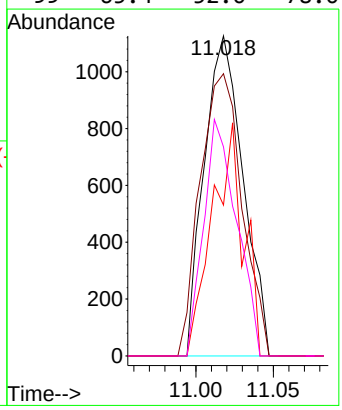
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

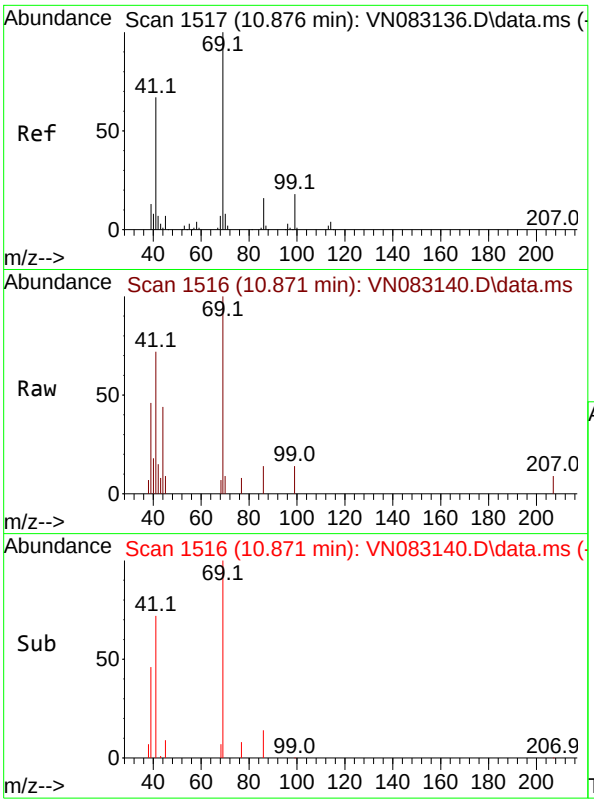


#55
1,1,2-Trichloroethane
Concen: 0.887 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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# 1
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

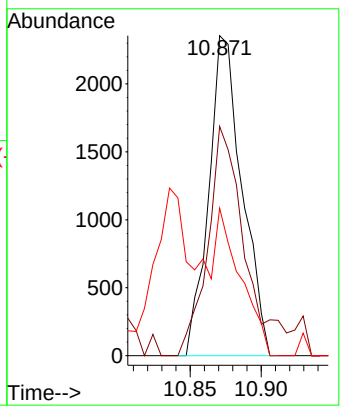
Tgt Ion: 69 Resp: 384

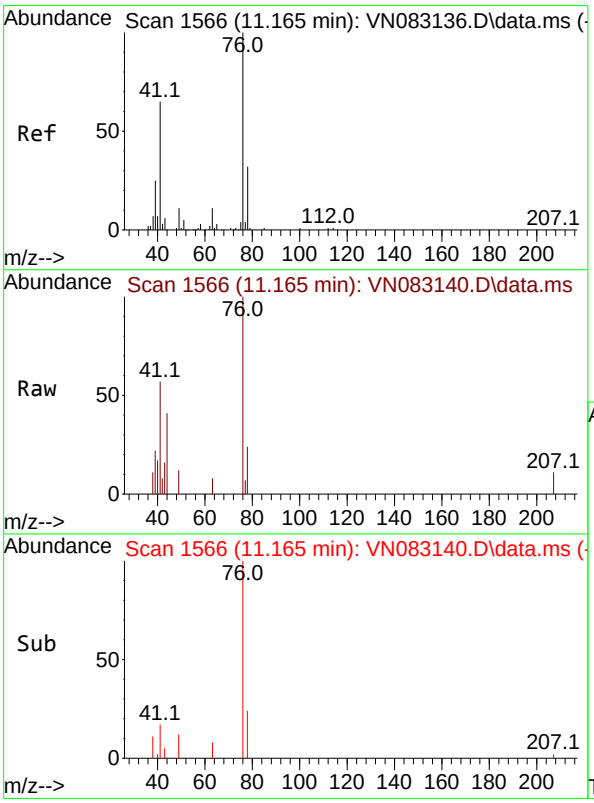
Ion	Ratio	Lower	Upper
69	100		
41	83.6	63.4	95.2
39	33.7	37.4	56.0#

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

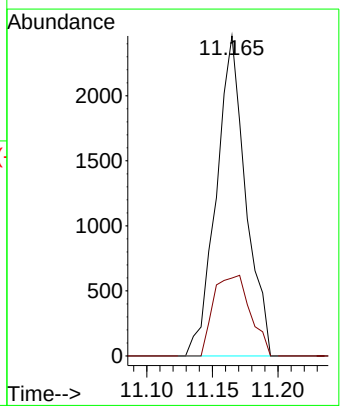


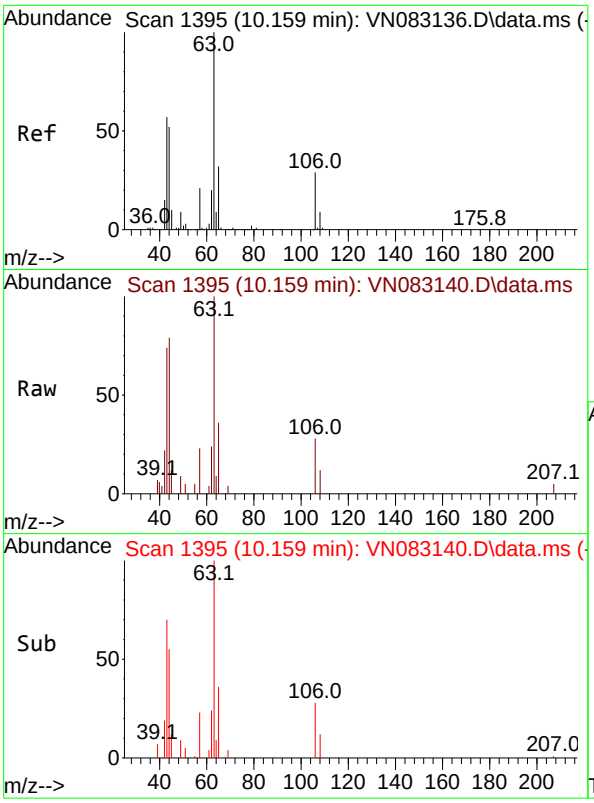


#57
1,3-Dichloropropane
Concen: 0.973 ug/l
RT: 11.165 min Scan# 1566
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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# 1
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

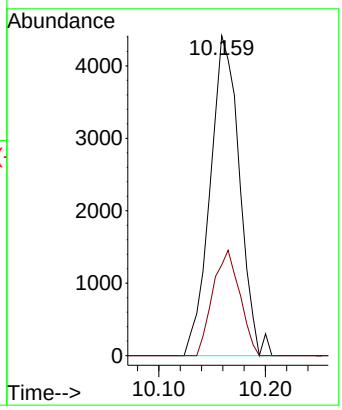
Tgt Ion: 63 Resp: 845

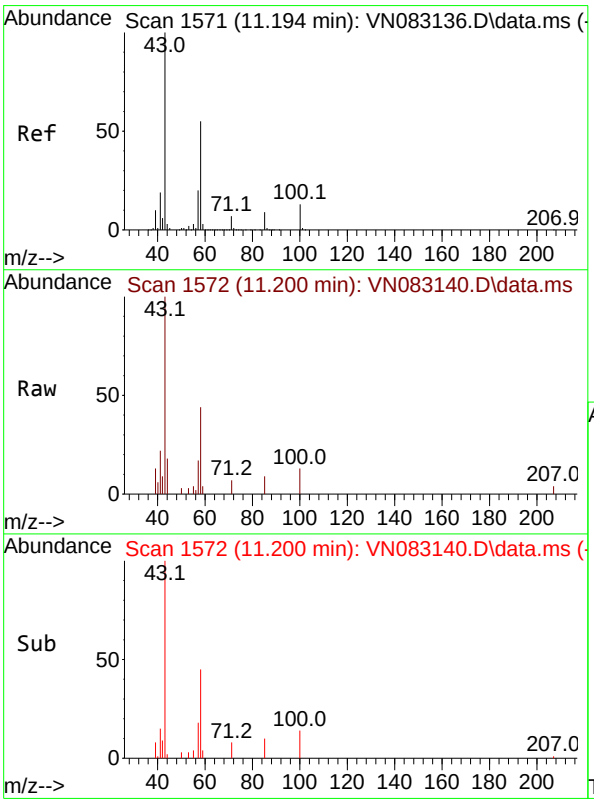
Ion	Ratio	Lower	Upper
63	100		
106	30.3	21.4	32.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

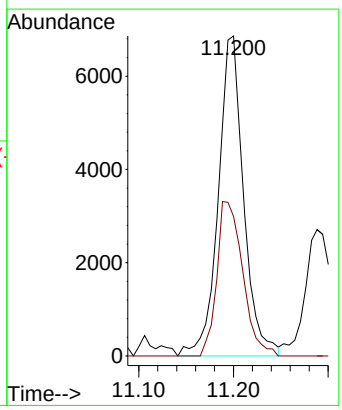


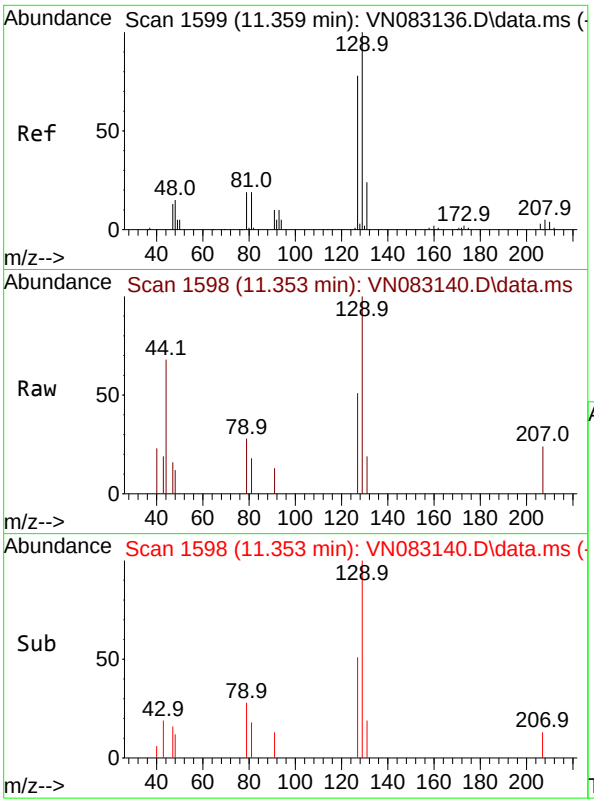


#59
2-Hexanone
Concen: 4.749 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 43 Resp: 12761

Ion	Ratio	Lower	Upper
43	100		
58	49.3	24.6	73.8

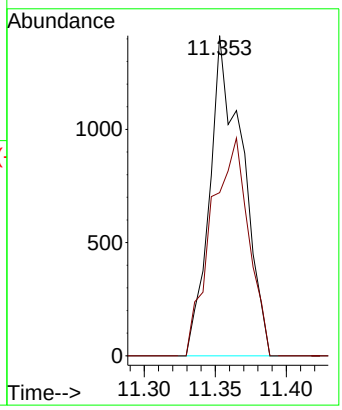




#60
Dibromochloromethane
Concen: 0.853 ug/l
RT: 11.353 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:129 Resp: 228

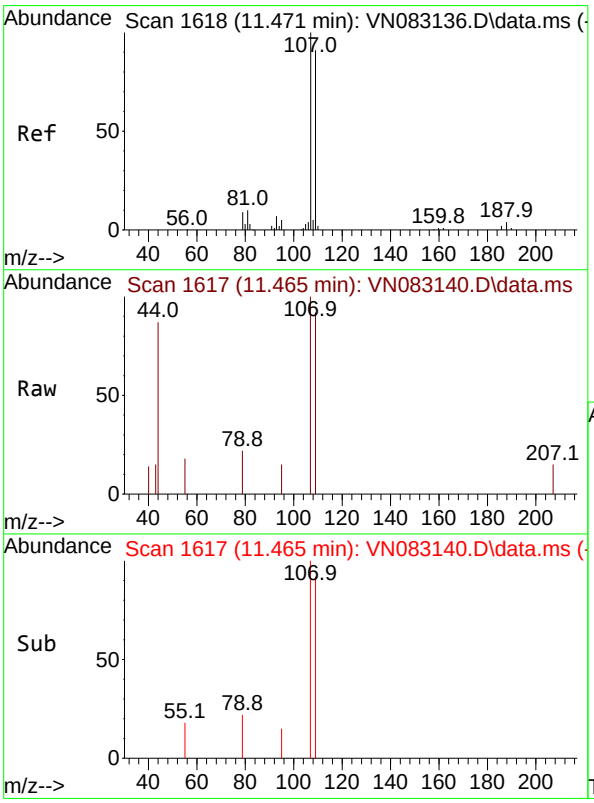
Ion	Ratio	Lower	Upper
129	100		
127	77.5	39.2	117.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

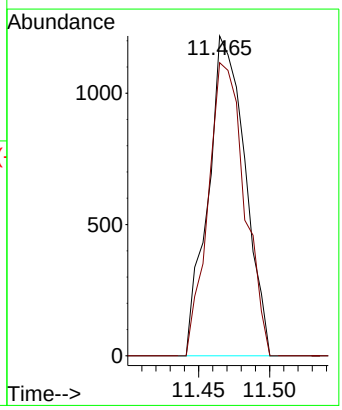
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

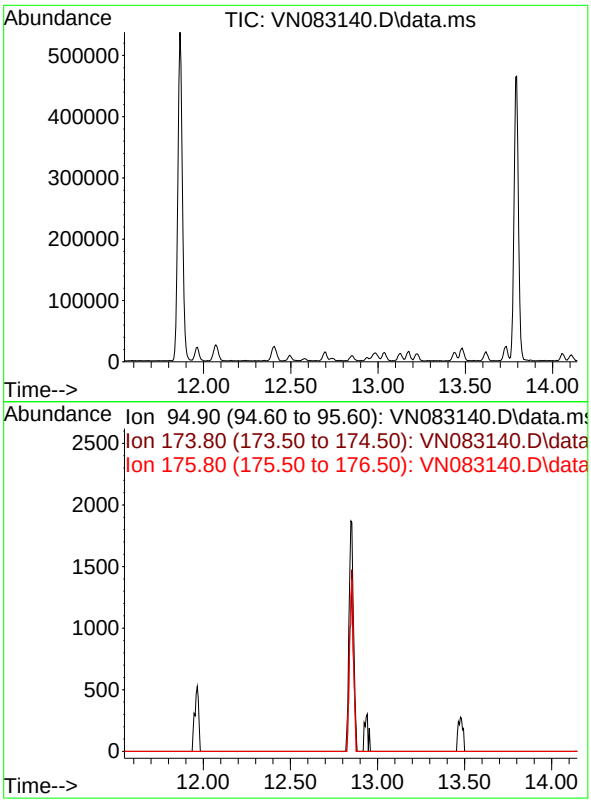


#61
1,2-Dibromoethane
Concen: 0.947 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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

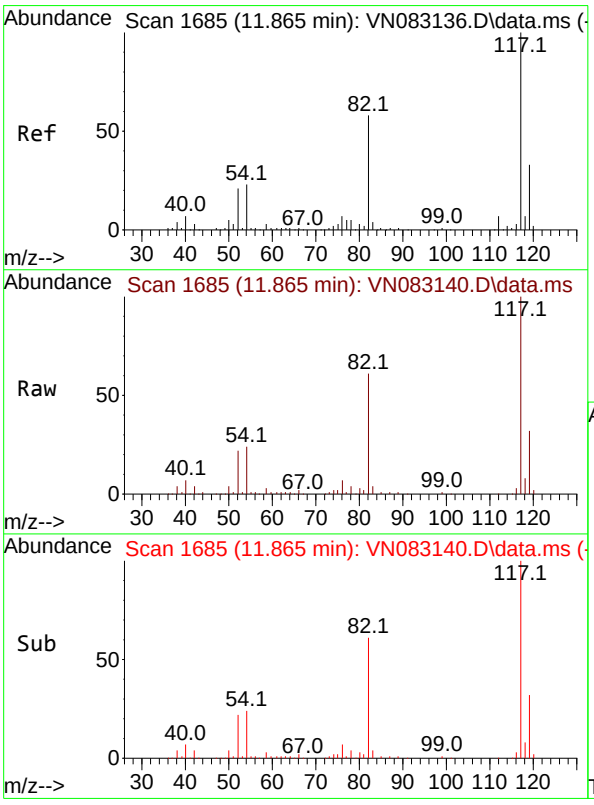
Tgt Ion: 95

Sig	Exp Ratio
95	100
174	79.6
176	73.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

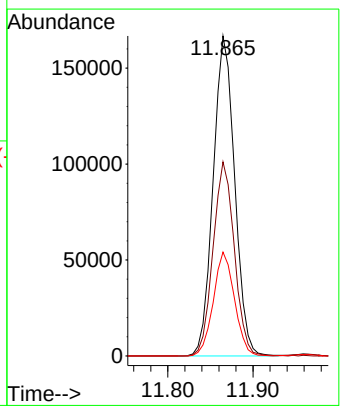
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

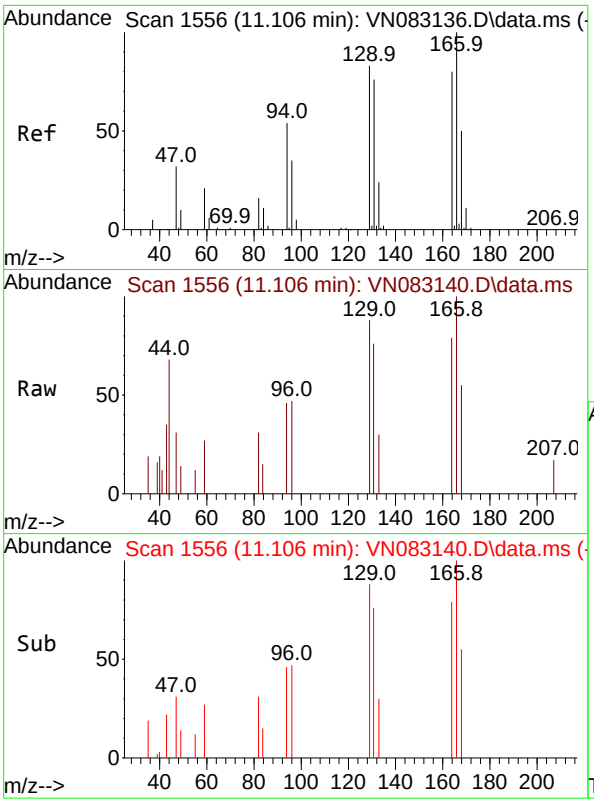


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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

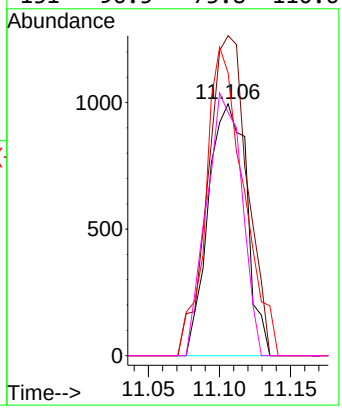




#64
Tetrachloroethene
Concen: 0.966 ug/l
RT: 11.106 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:164 Resp: 187

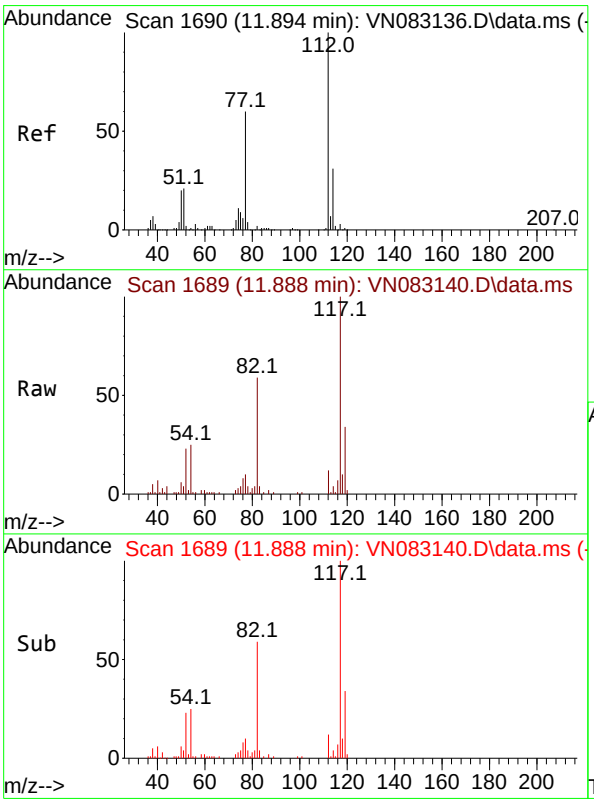
Ion	Ratio	Lower	Upper
164	100		
166	127.0	101.4	152.0
129	112.2	75.7	113.5
131	96.5	73.8	110.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

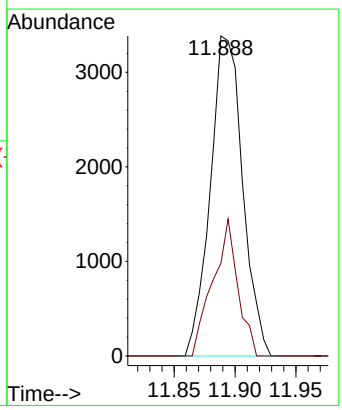
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

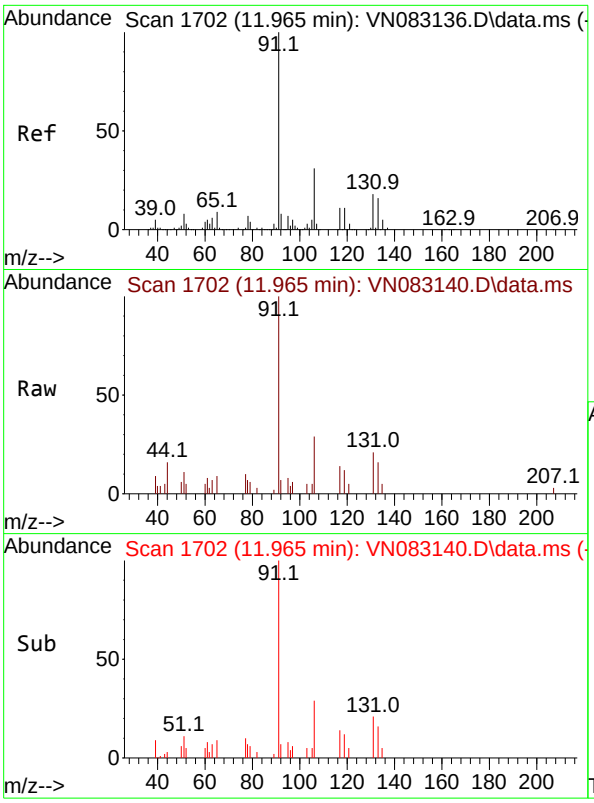


#65
Chlorobenzene
Concen: 0.968 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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# 1
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

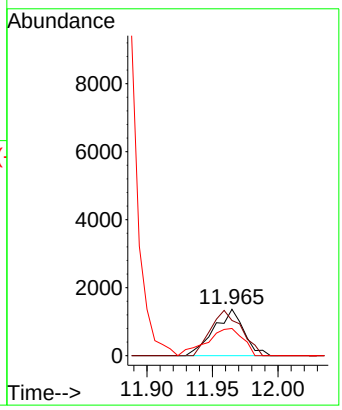
Tgt Ion:131 Resp: 216

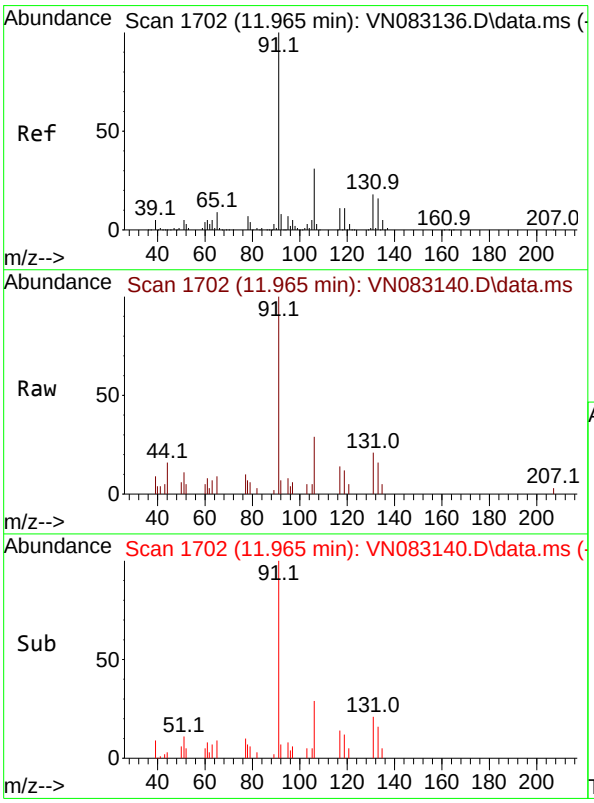
Ion	Ratio	Lower	Upper
131	100		
133	100.6	47.3	142.0
119	0.0	32.5	97.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

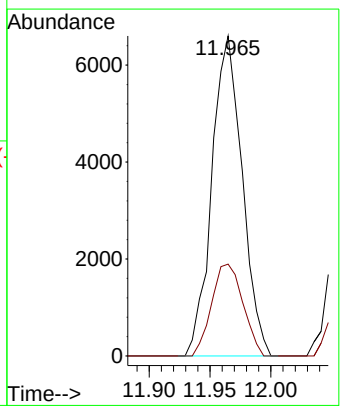


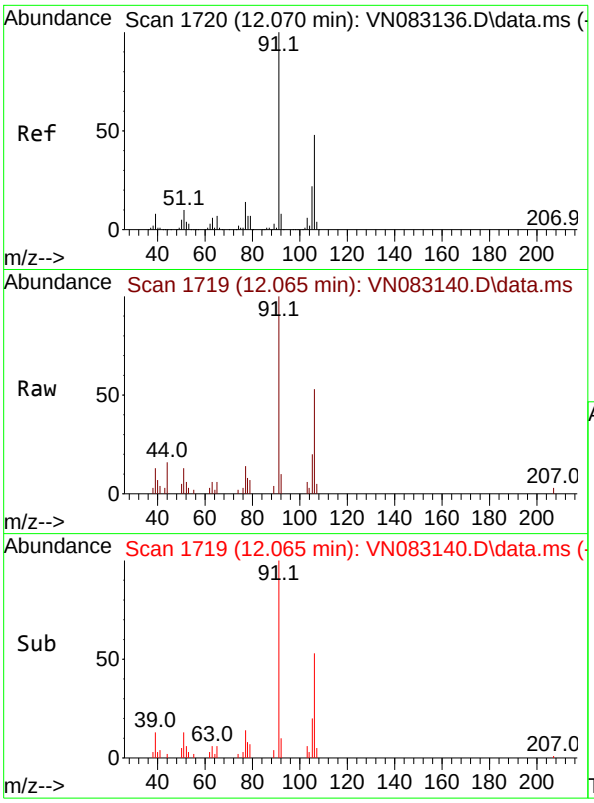


#67
Ethyl Benzene
Concen: 0.966 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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# 1
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

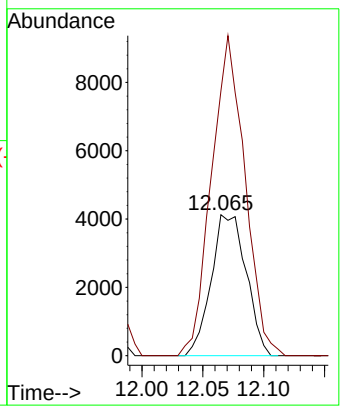
Tgt Ion:106 Resp: 826

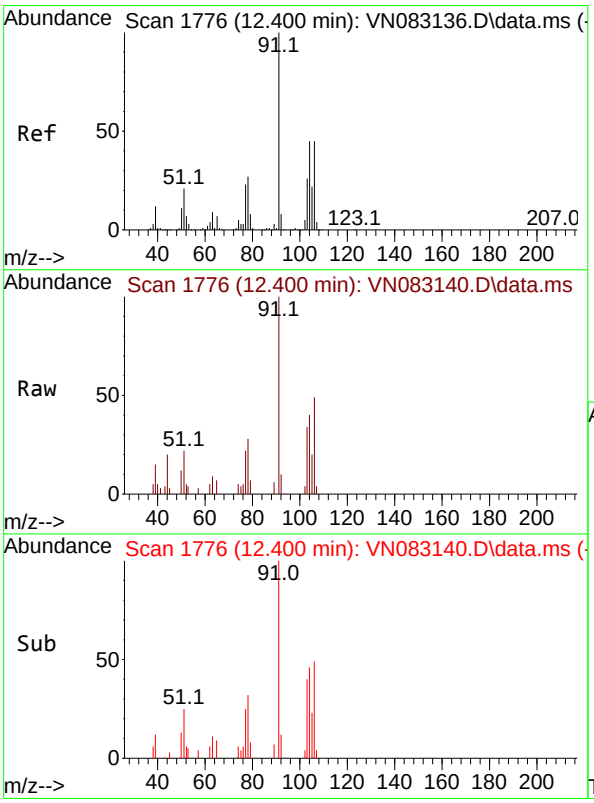
Ion	Ratio	Lower	Upper
106	100		
91	217.0	166.1	249.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

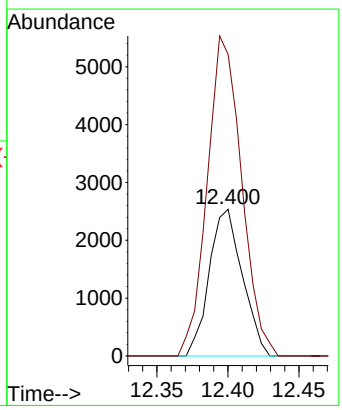


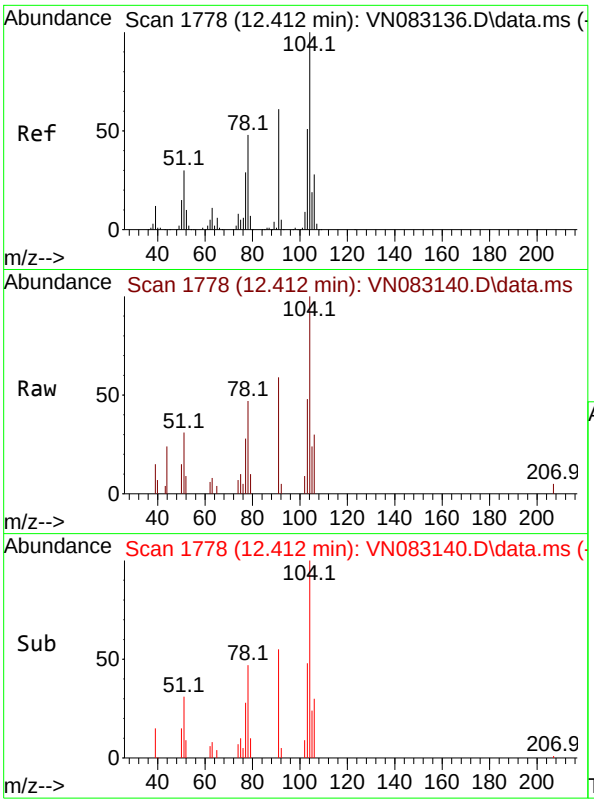


#69
o-Xylene
Concen: 0.938 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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# 1
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

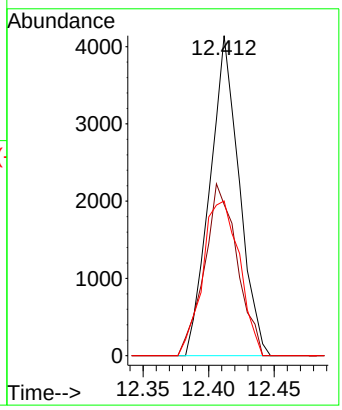
Tgt Ion:104 Resp: 641

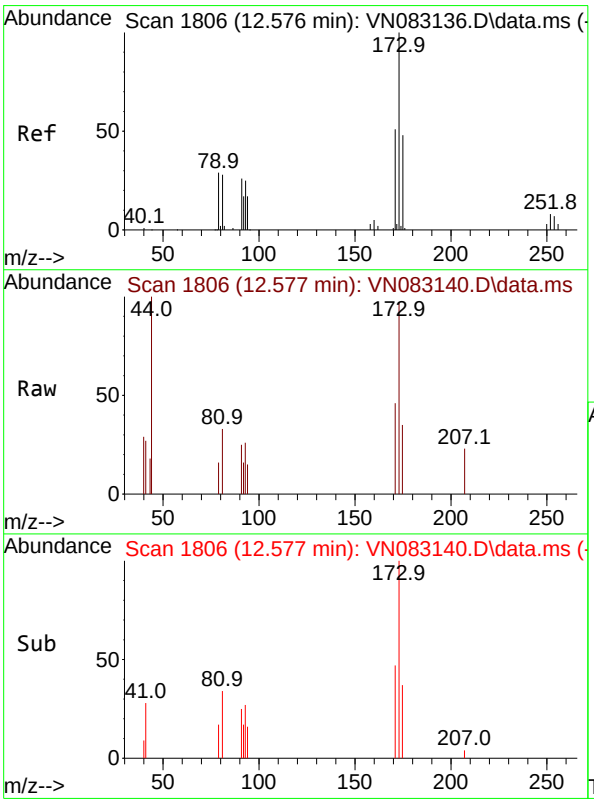
Ion	Ratio	Lower	Upper
104	100		
78	60.2	41.6	62.4
103	60.7	44.0	66.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

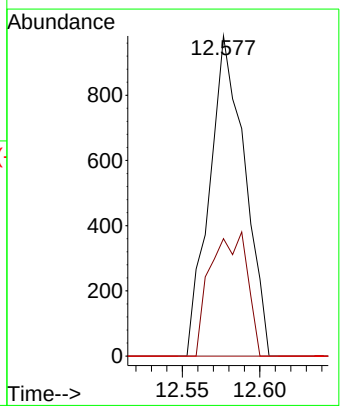


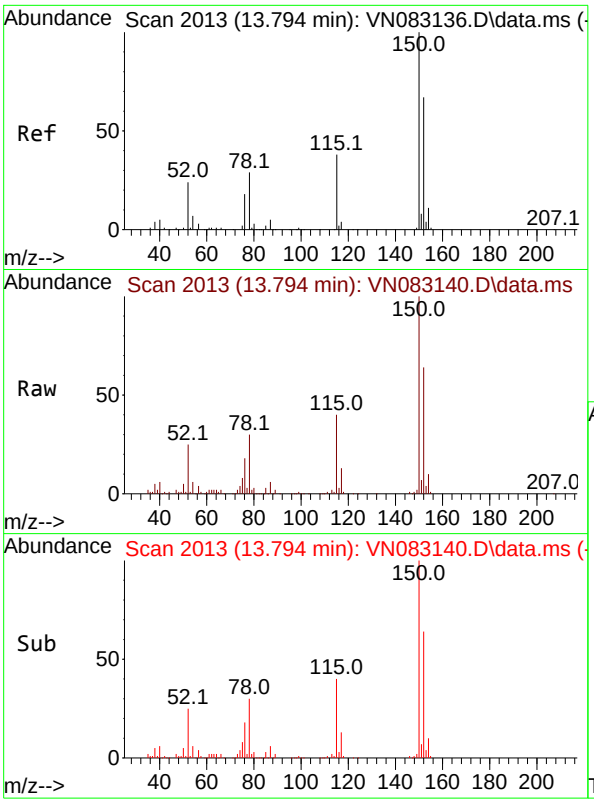


#71
Bromoform
Concen: 0.903 ug/l
RT: 12.577 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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

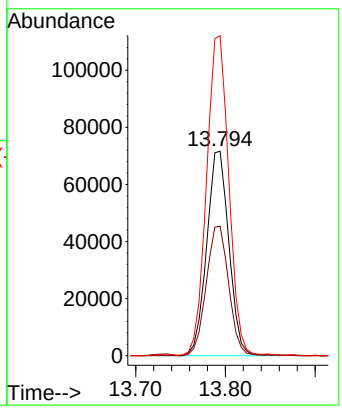




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:152 Resp: 12292

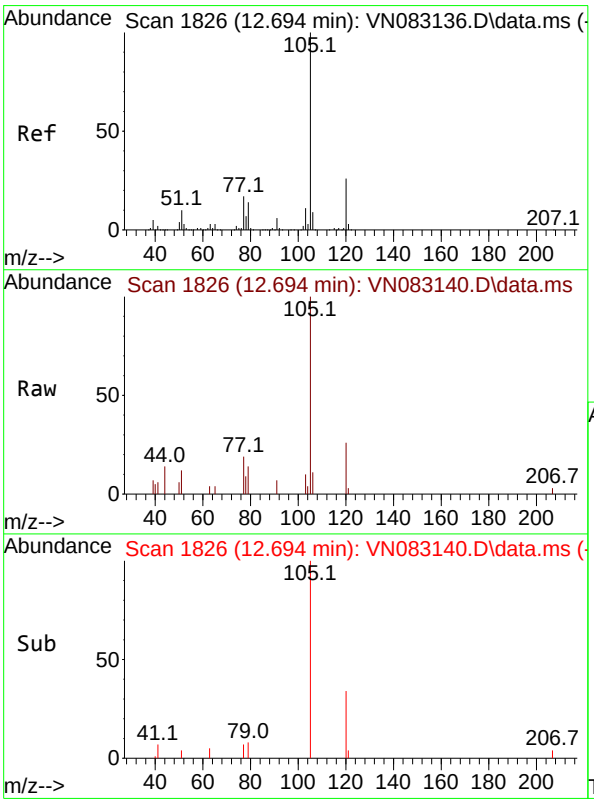
Ion	Ratio	Lower	Upper
152	100		
115	64.2	30.6	91.6
150	157.5	0.0	348.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

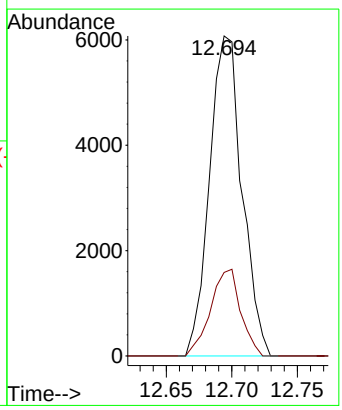
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

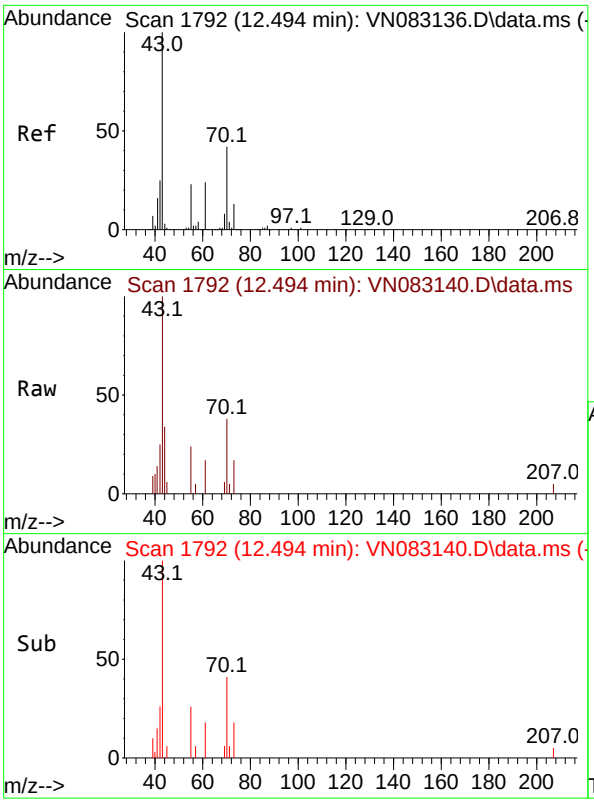


#73
Isopropylbenzene
Concen: 1.017 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:105 Resp: 10459

Ion	Ratio	Lower	Upper
105	100		
120	25.1	12.9	38.6

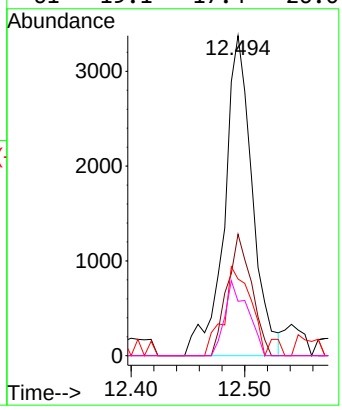




#74
N-amyl acetate
Concen: 1.144 ug/l
RT: 12.494 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 43 Resp: 575

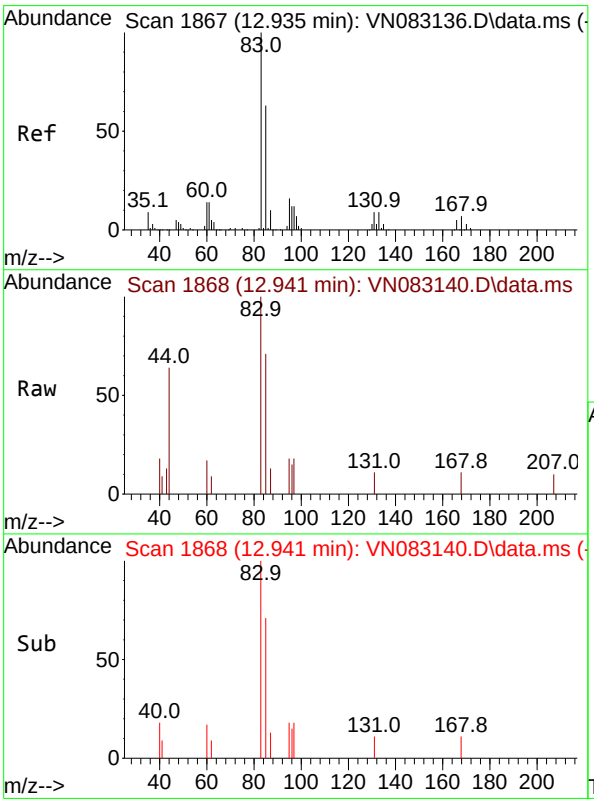
Ion	Ratio	Lower	Upper
43	100		
70	33.3	29.8	44.6
55	28.9	18.7	28.1
61	19.1	17.4	26.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

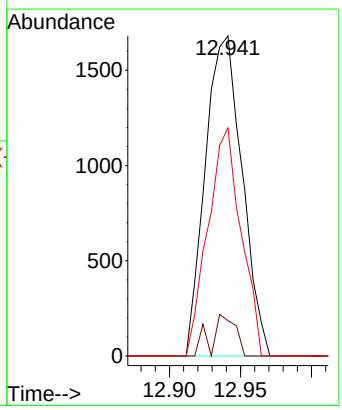
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

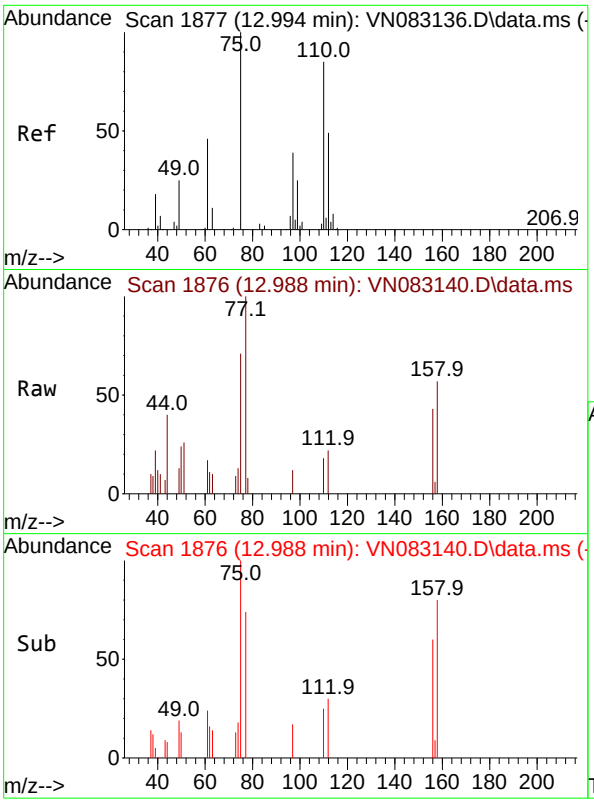


#75
1,1,2,2-Tetrachloroethane
Concen: 1.043 ug/l
RT: 12.941 min Scan# 1868
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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# 1
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

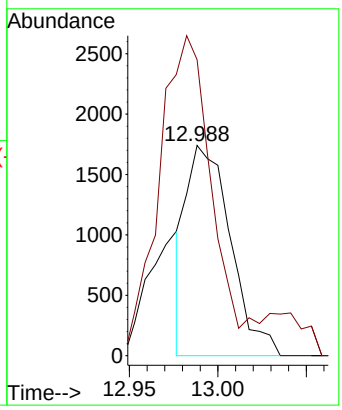
Tgt Ion: 75 Resp: 303

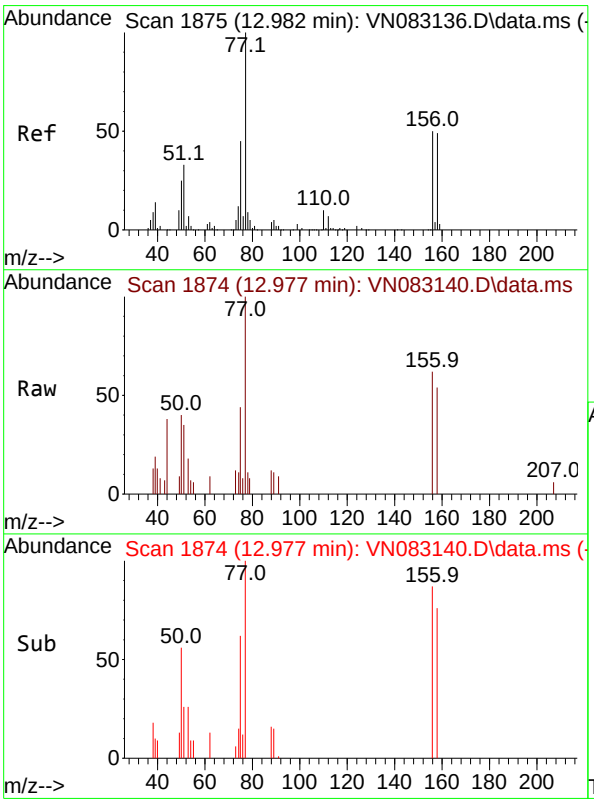
Ion	Ratio	Lower	Upper
75	100		
77	184.1	110.9	332.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

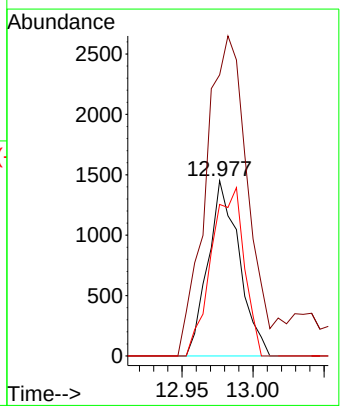


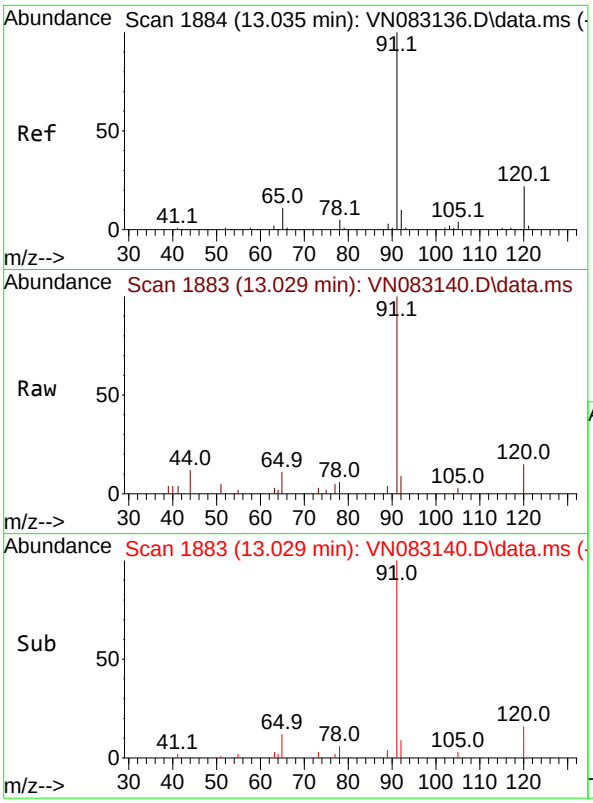


#77
Bromobenzene
Concen: 0.969 ug/l
RT: 12.977 min Scan# 1874
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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# 1
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

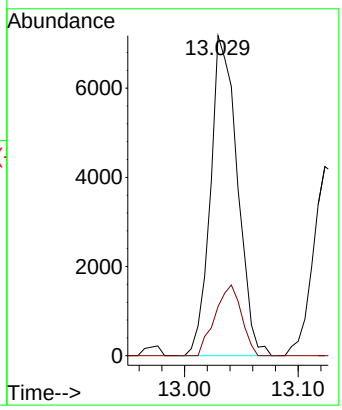
Tgt Ion: 91 Resp: 1180

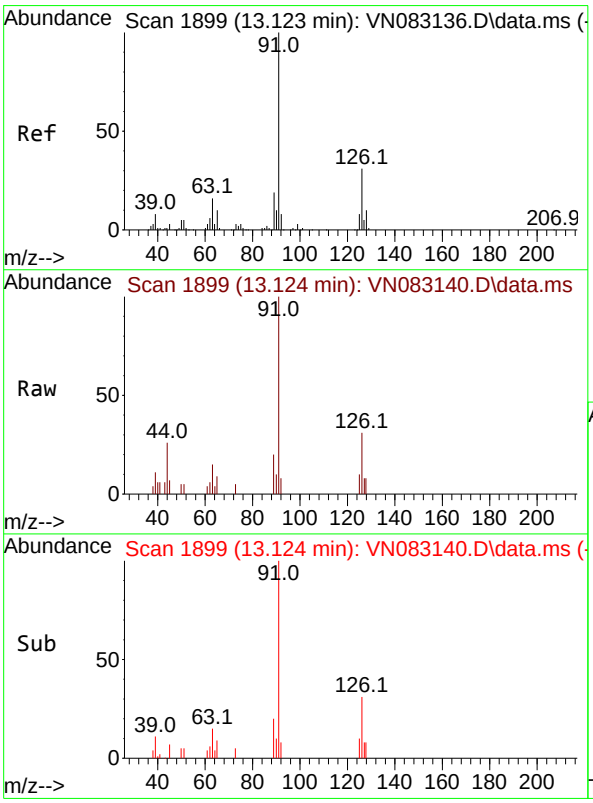
Ion	Ratio	Lower	Upper
91	100		
120	21.7	10.9	32.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

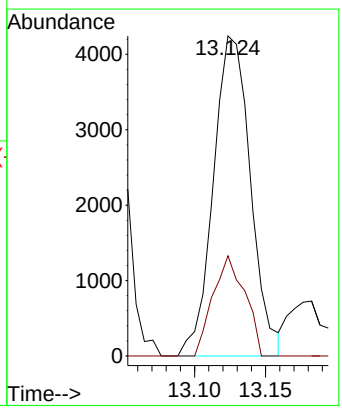


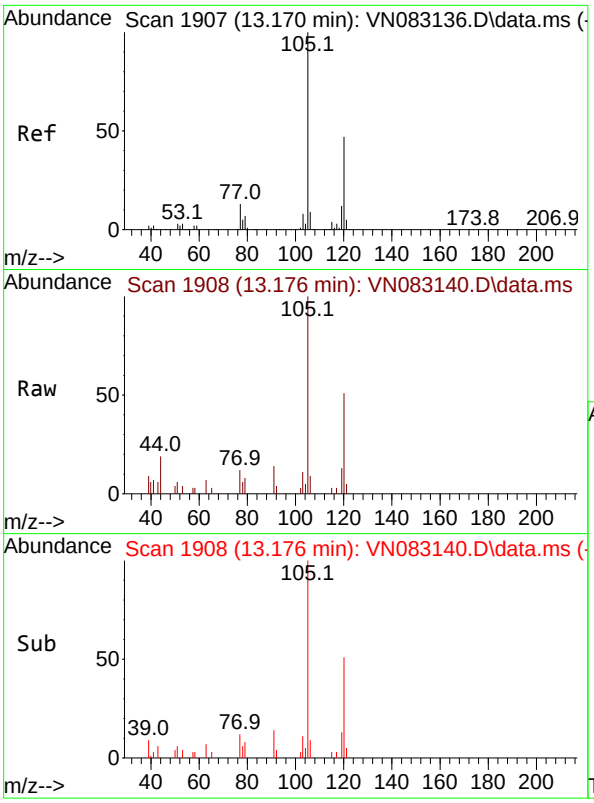


#79
2-Chlorotoluene
Concen: 1.031 ug/l
RT: 13.124 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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# 1
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

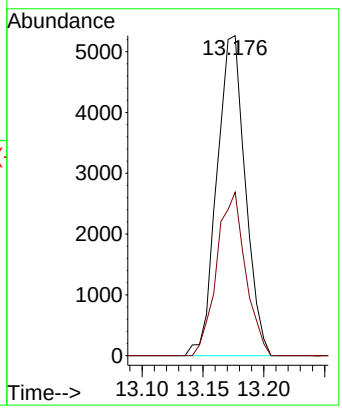
Tgt Ion:105 Resp: 855

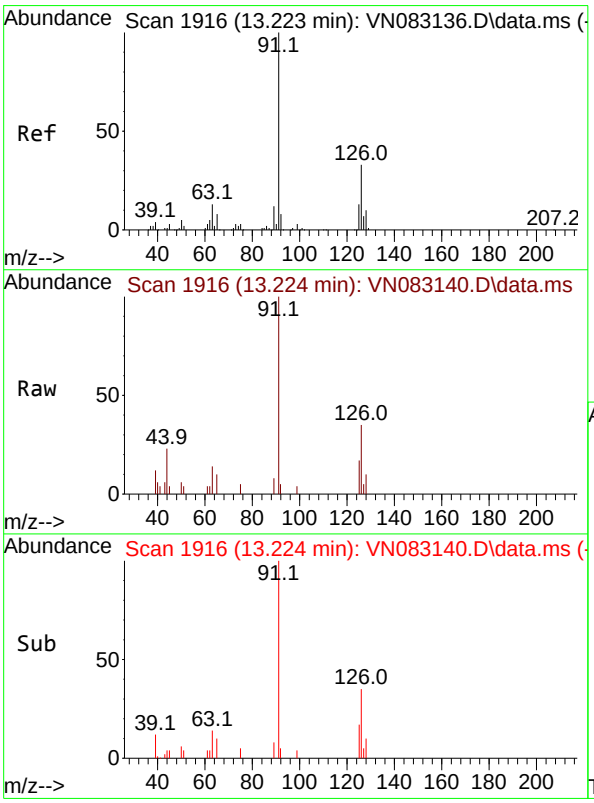
Ion	Ratio	Lower	Upper
105	100		
120	51.7	24.3	72.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

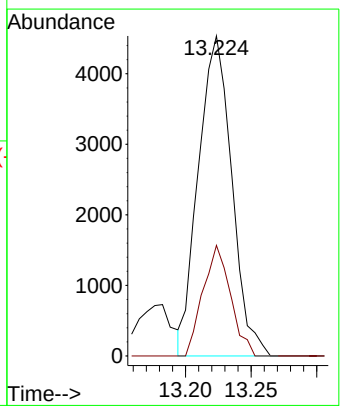


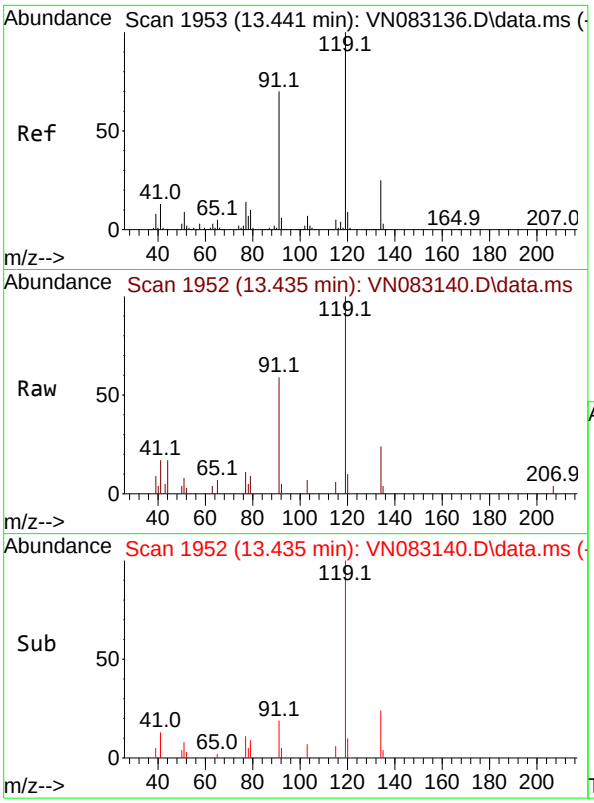


#82
4-Chlorotoluene
Concen: 1.065 ug/l
RT: 13.224 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 91 Resp: 8018

Ion	Ratio	Lower	Upper
91	100		
126	28.6	16.2	48.6

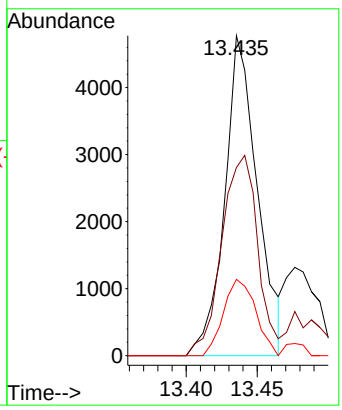




#83
tert-Butylbenzene
Concen: 1.001 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:119 Resp: 762

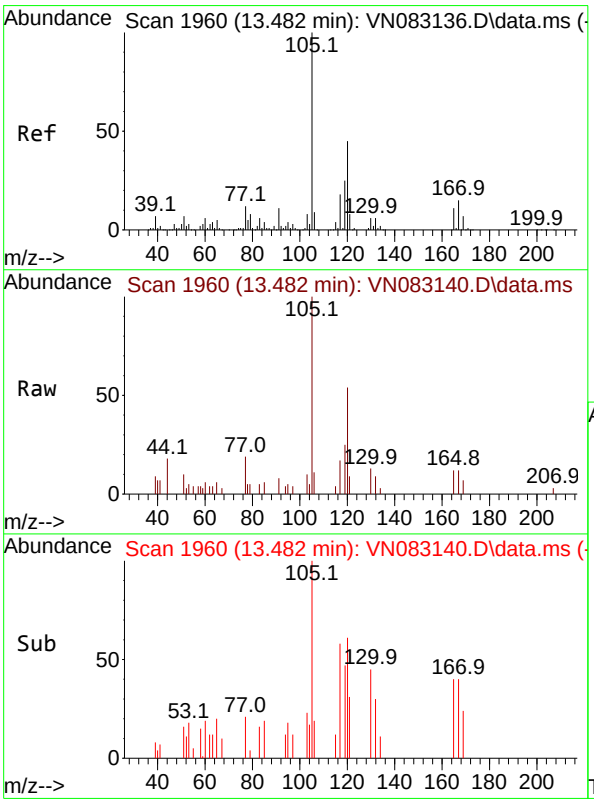
Ion	Ratio	Lower	Upper
119	100		
91	69.2	35.0	105.1
134	23.5	13.3	39.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

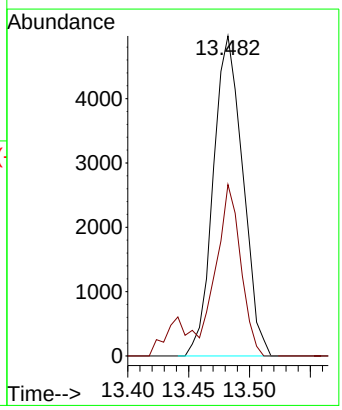
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

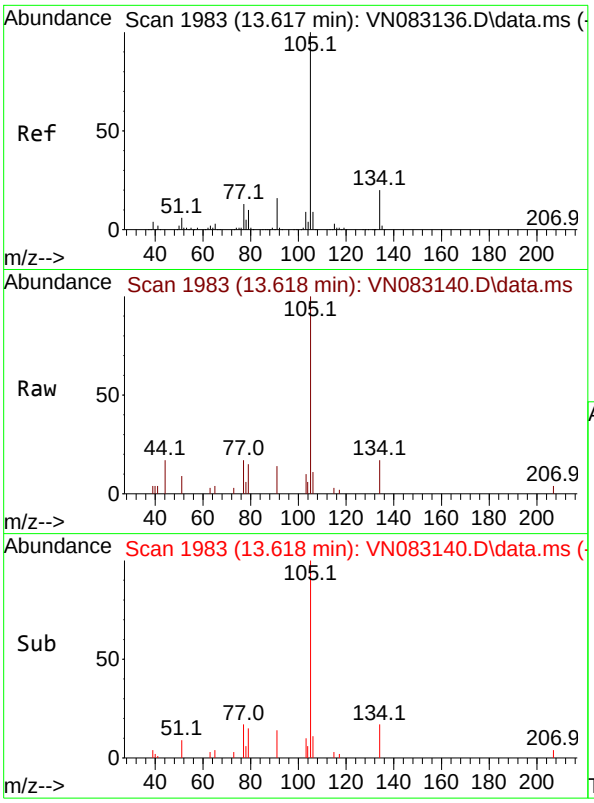


#84
1,2,4-Trimethylbenzene
Concen: 0.968 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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# 1
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

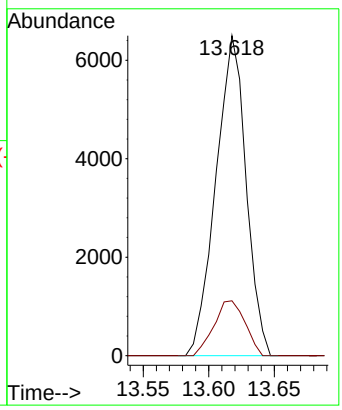
Tgt Ion:105 Resp: 1041

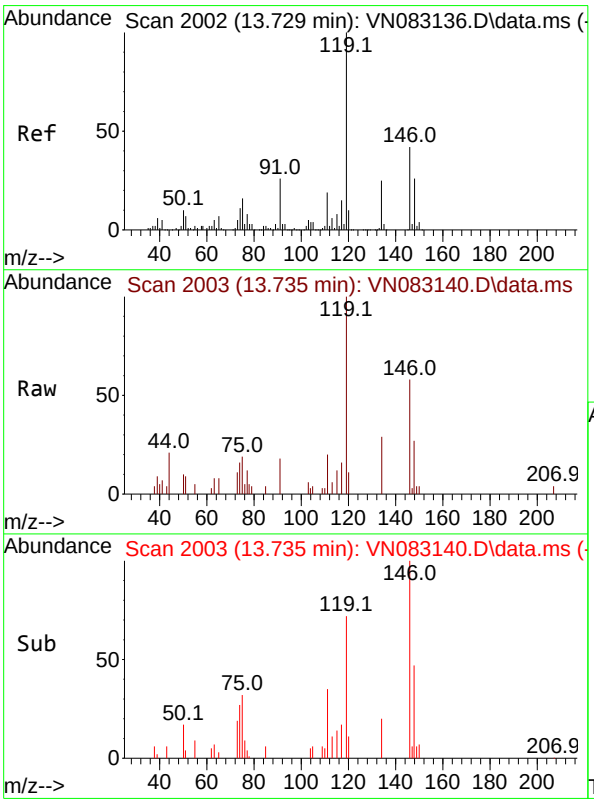
Ion	Ratio	Lower	Upper
105	100		
134	17.7	9.8	29.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

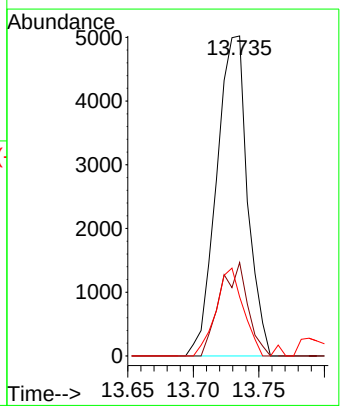


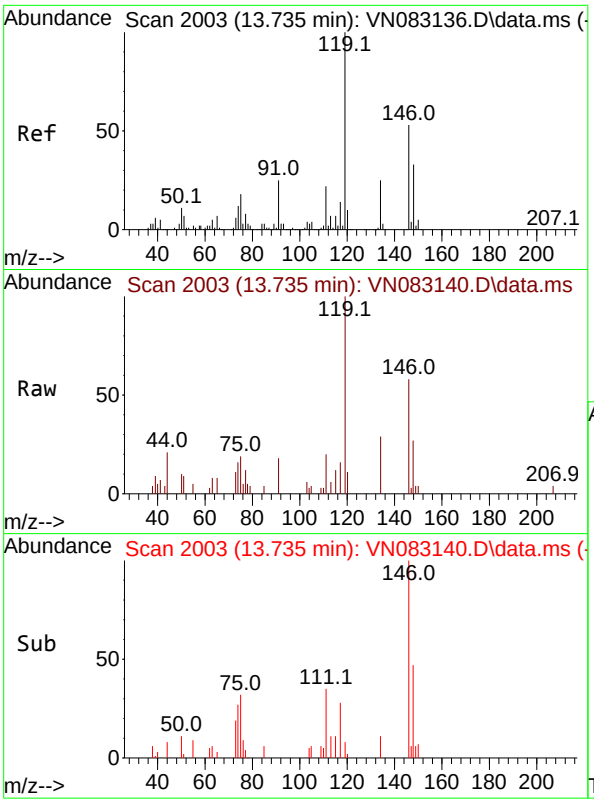


#86
p-Isopropyltoluene
Concen: 0.960 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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

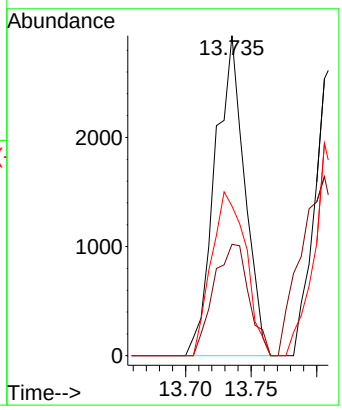




#87
1,3-Dichlorobenzene
Concen: 1.070 ug/l
RT: 13.735 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:146 Resp: 459

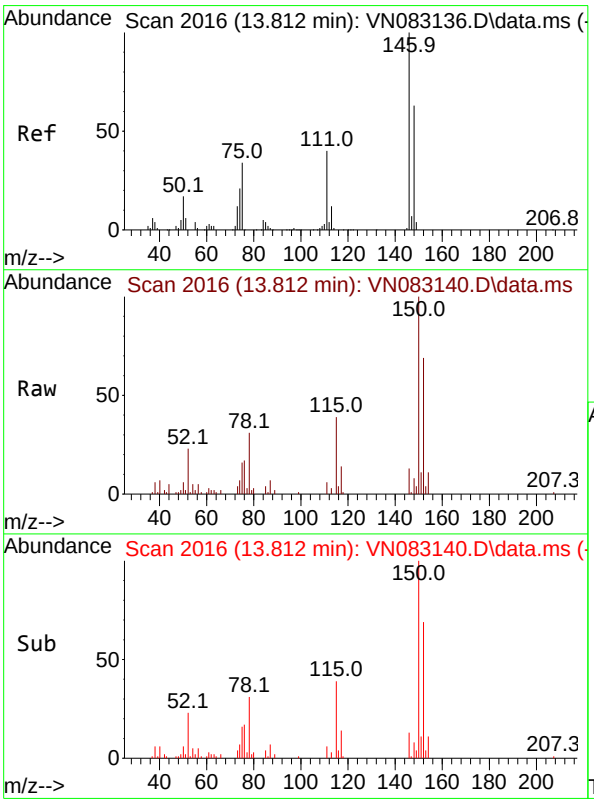
Ion	Ratio	Lower	Upper
146	100		
111	41.5	20.6	61.9
148	59.5	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

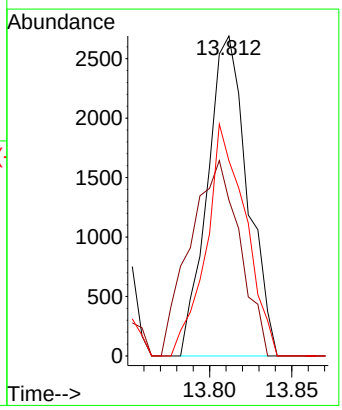
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

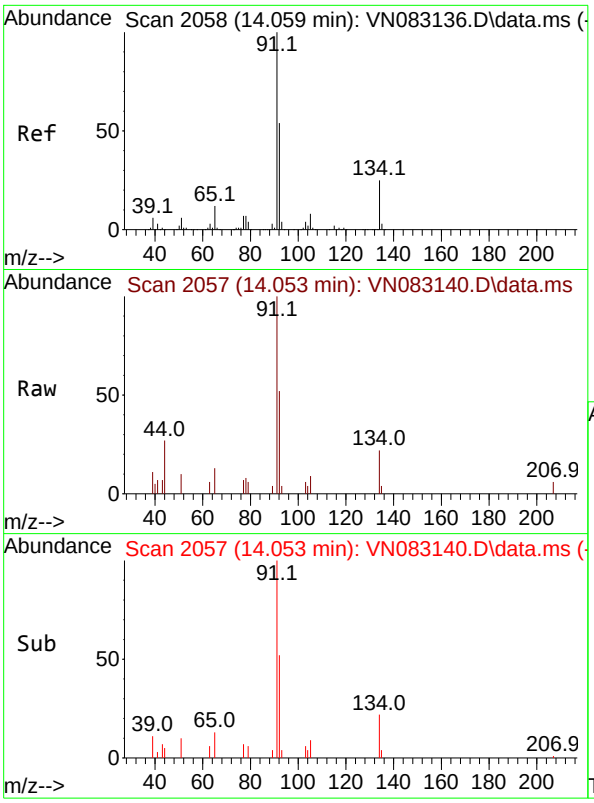


#88
1,4-Dichlorobenzene
Concen: 1.057 ug/l m
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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# 2
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

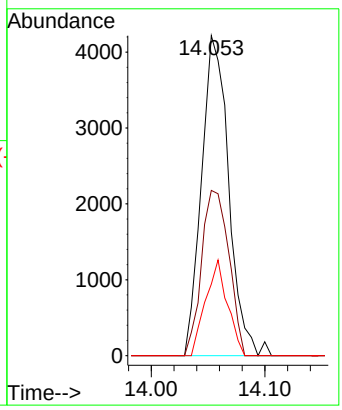
Tgt Ion: 91 Resp: 700

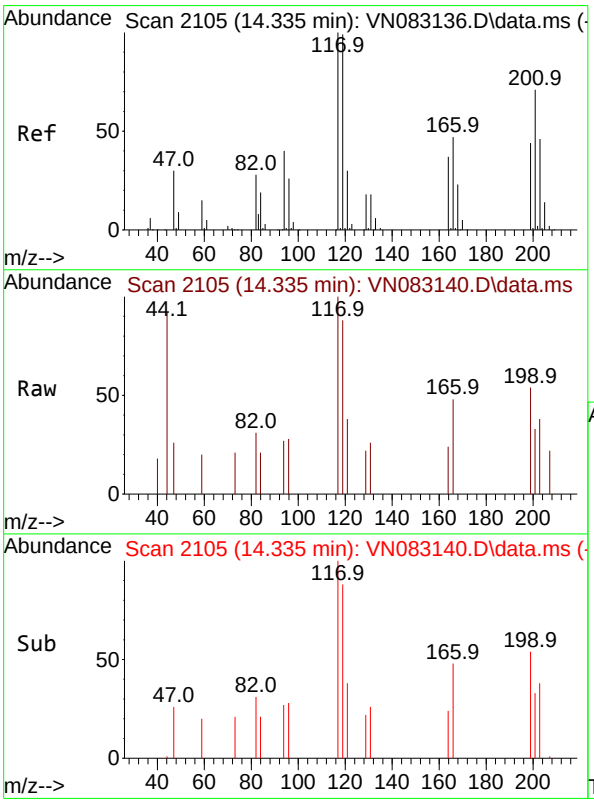
Ion	Ratio	Lower	Upper
91	100		
92	52.0	26.1	78.3
134	24.1	12.1	36.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

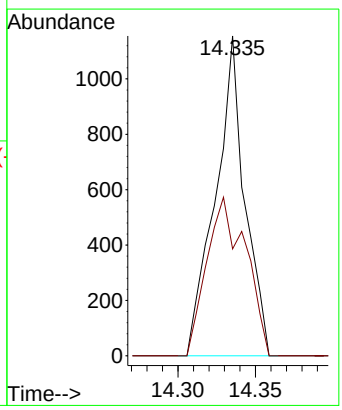


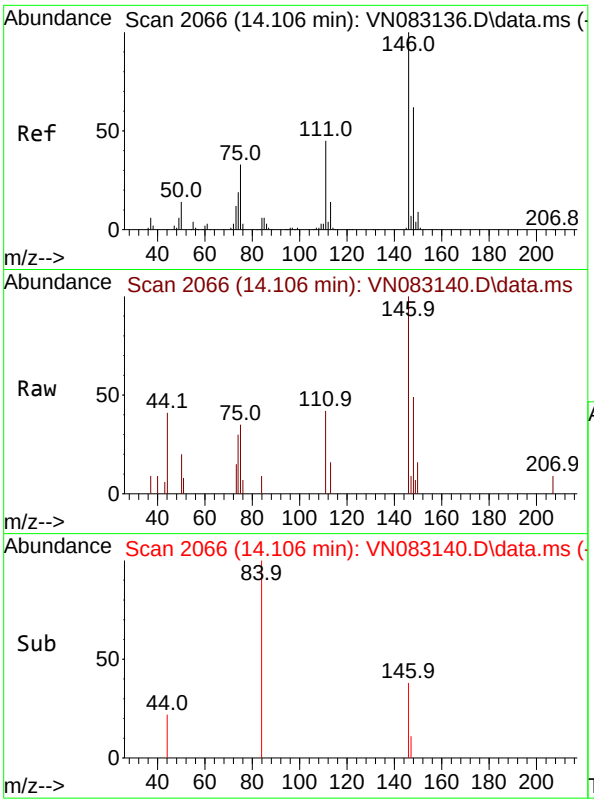


#90
Hexachloroethane
Concen: 0.918 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:117 Resp: 1524

Ion	Ratio	Lower	Upper
117	100		
201	65.7	35.8	107.3

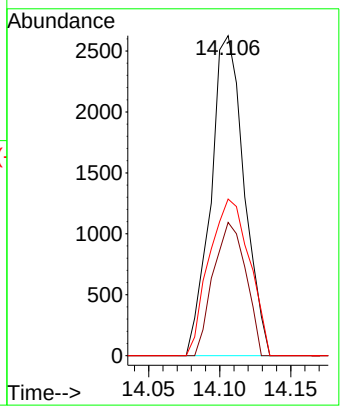




#91
1,2-Dichlorobenzene
Concen: 1.029 ug/l
RT: 14.106 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:146 Resp: 427

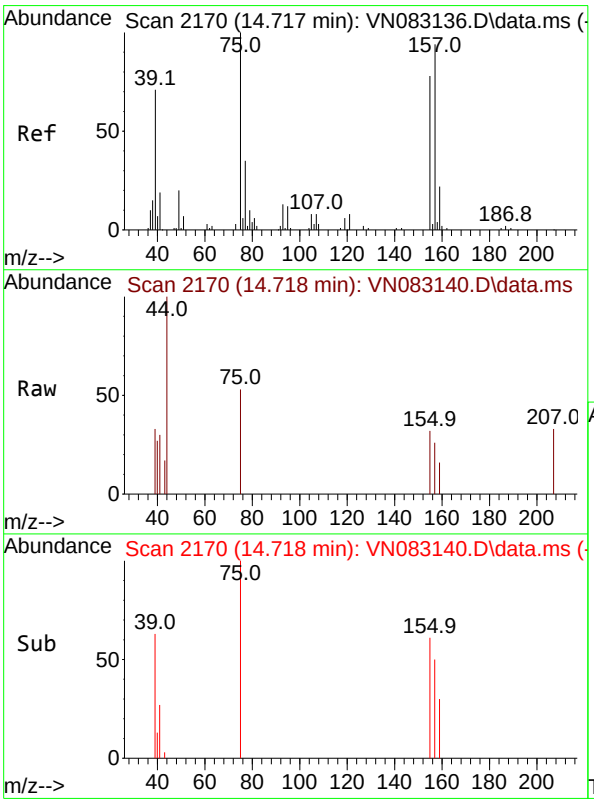
Ion	Ratio	Lower	Upper
146	100		
111	40.7	21.4	64.2
148	59.6	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

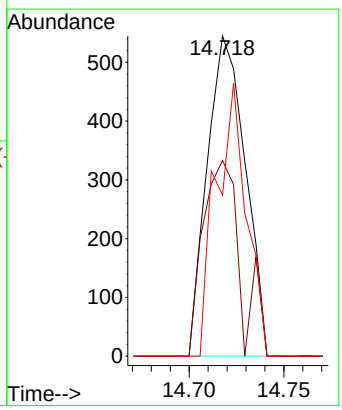
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

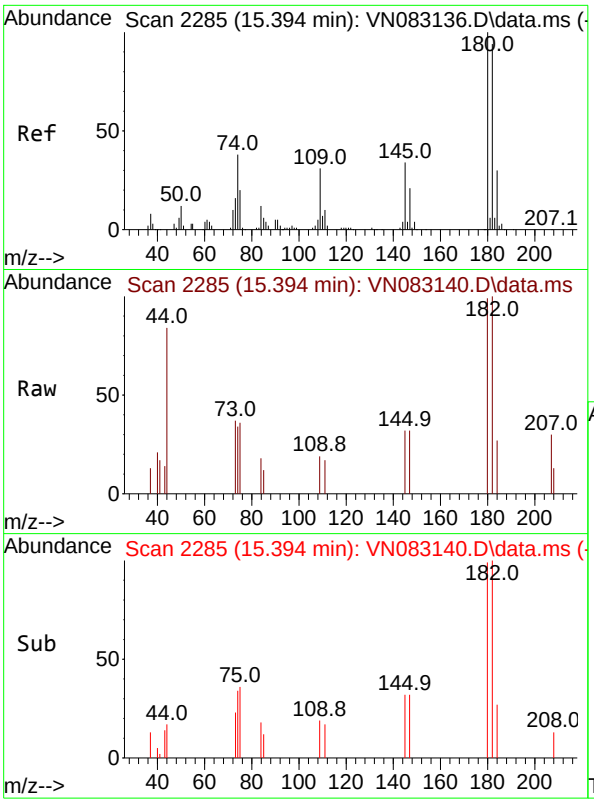


#92
1,2-Dibromo-3-Chloropropane
Concen: 1.081 ug/l
RT: 14.718 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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

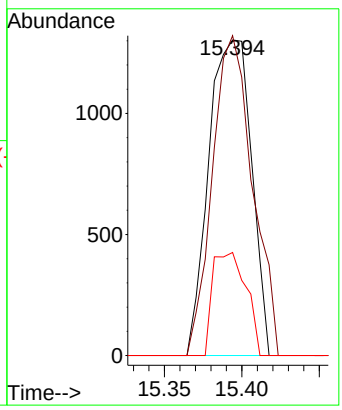




#93
1,2,4-Trichlorobenzene
Concen: 1.070 ug/l
RT: 15.394 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:180 Resp: 249

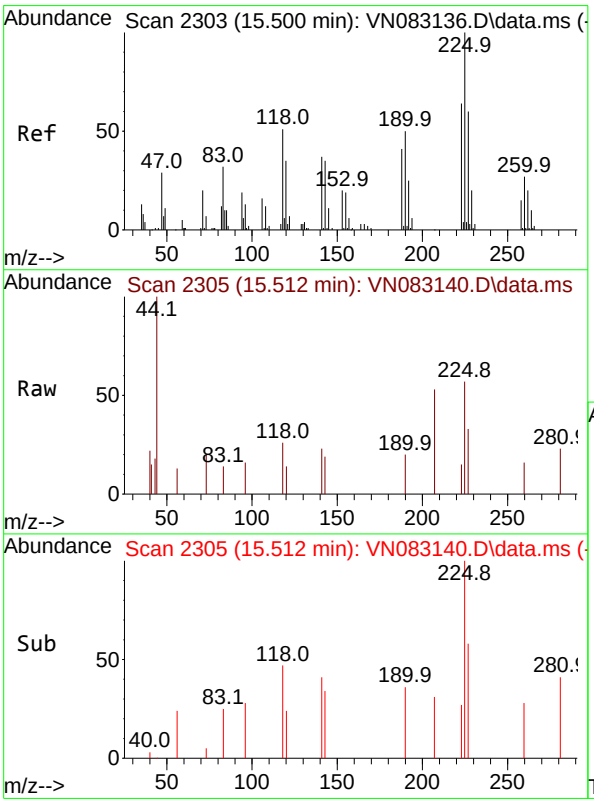
Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.3	141.8
145	25.6	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

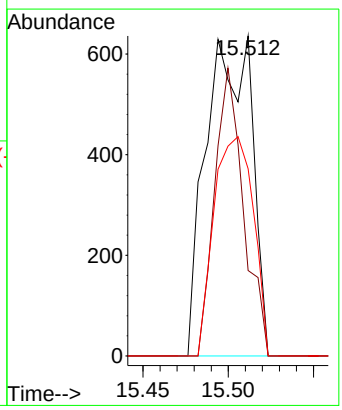
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

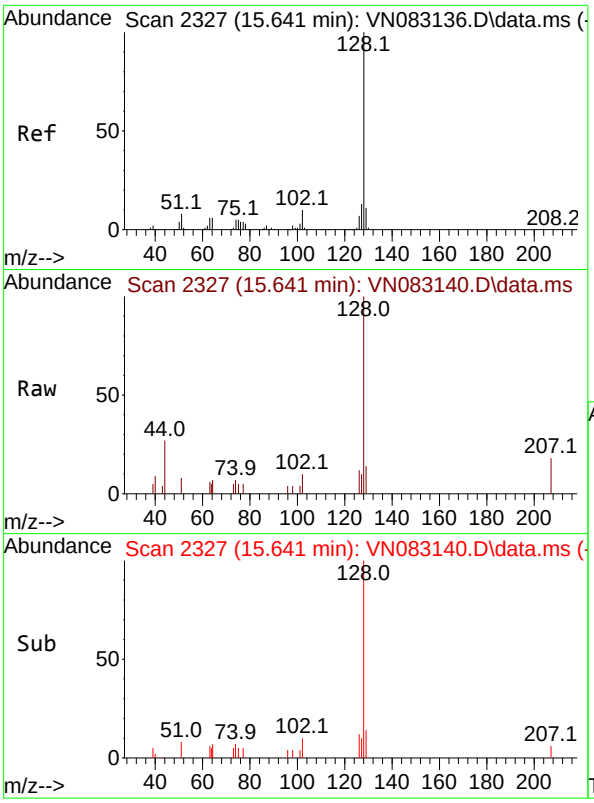


#94
Hexachlorobutadiene
Concen: 1.140 ug/l
RT: 15.512 min Scan# 2305
Delta R.T. 0.012 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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

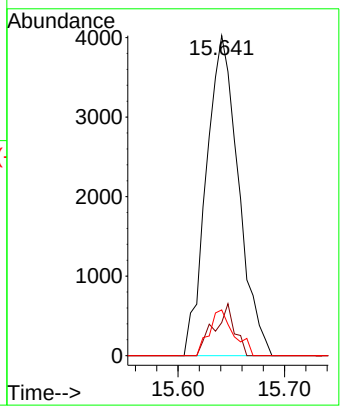




#95
Naphthalene
Concen: 1.021 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:128 Resp: 843

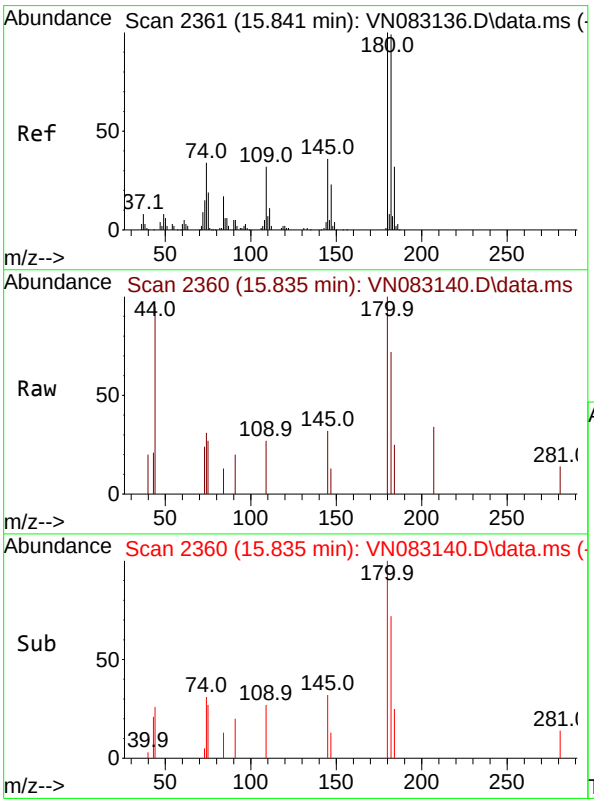
Ion	Ratio	Lower	Upper
128	100		
127	10.4	10.6	16.0
129	10.9	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

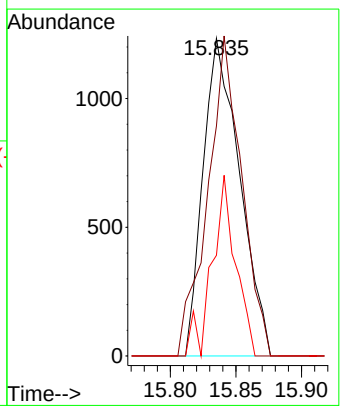
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#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



ICAL Form

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)
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

ICAL Form

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

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

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

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

ICAL Form

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

ICAL Form

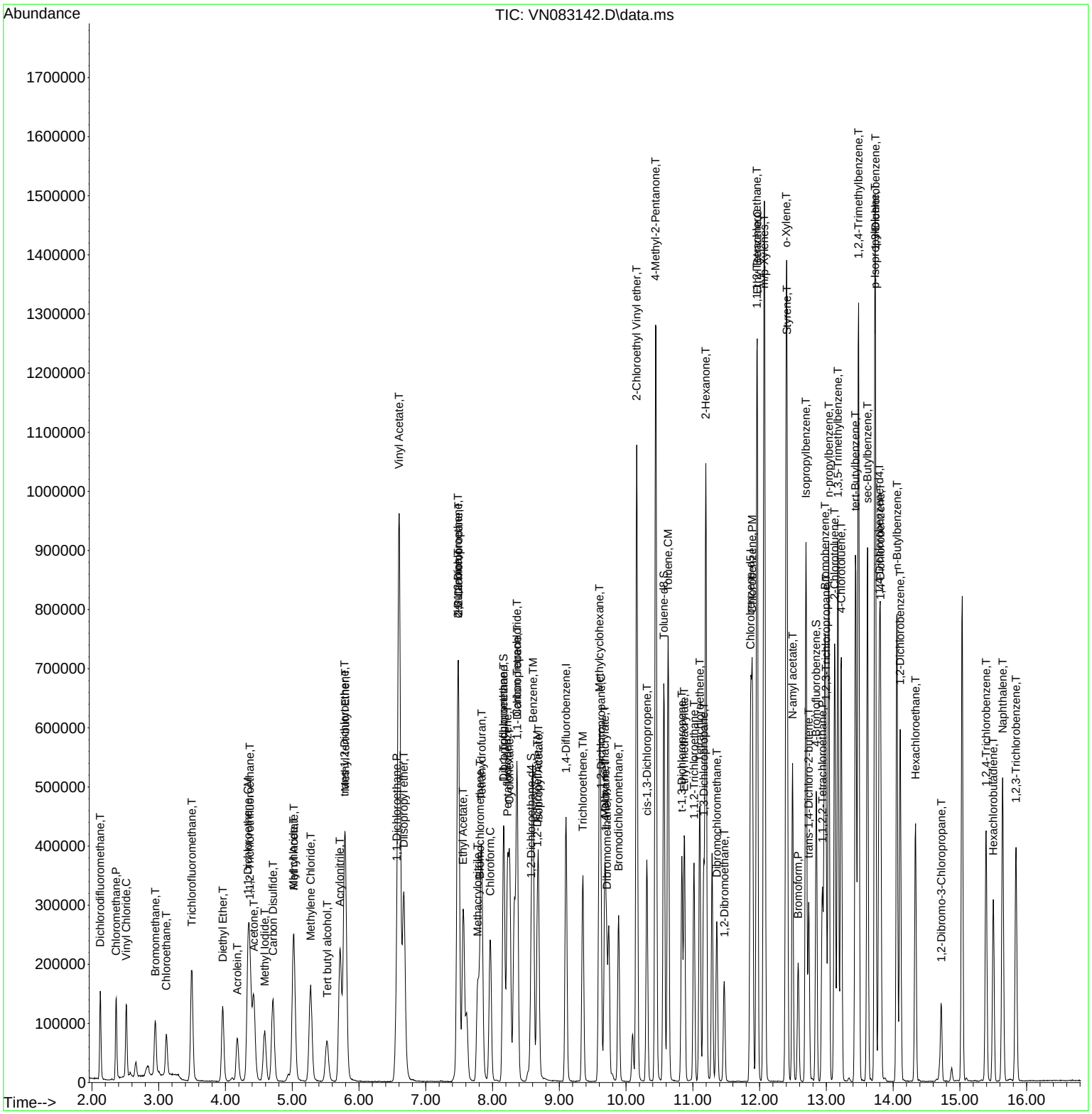
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083142.D
Acq On : 07 Aug 2024 14:49
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

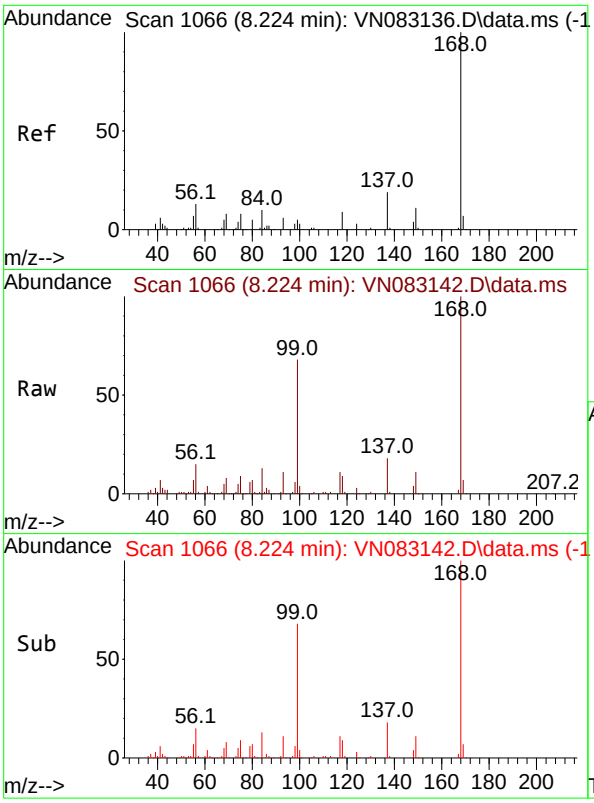
Quant Time: Aug 08 06:35:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

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

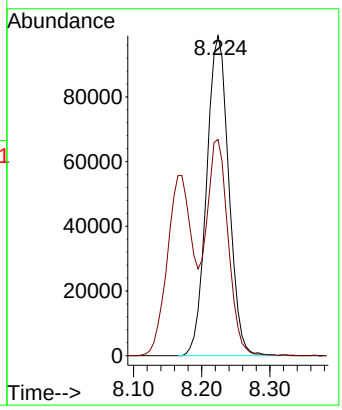




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:168 Resp: 22368

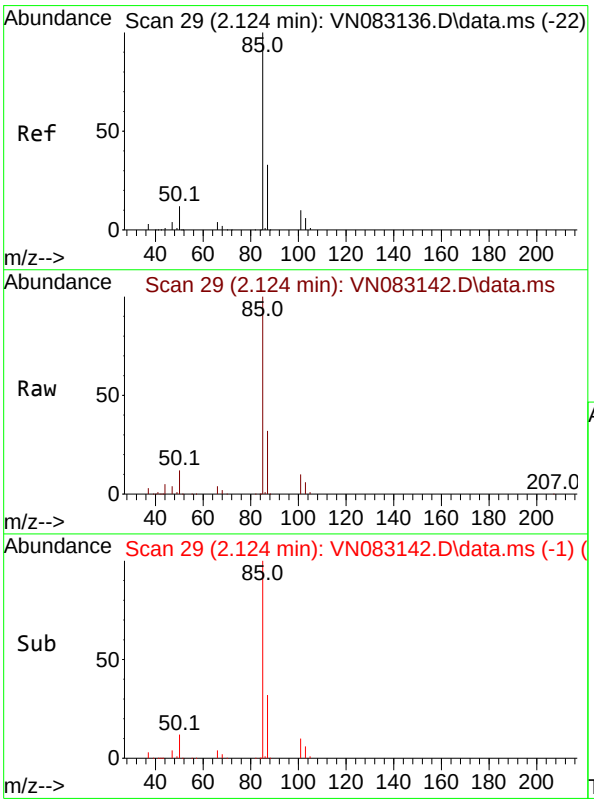
Ion	Ratio	Lower	Upper
168	100		
99	67.4	48.2	72.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

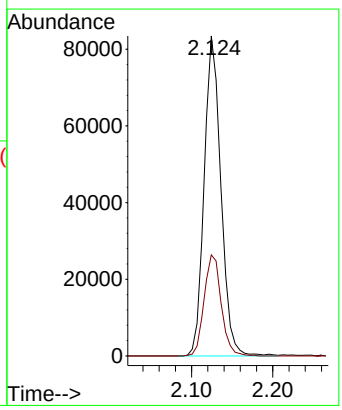
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

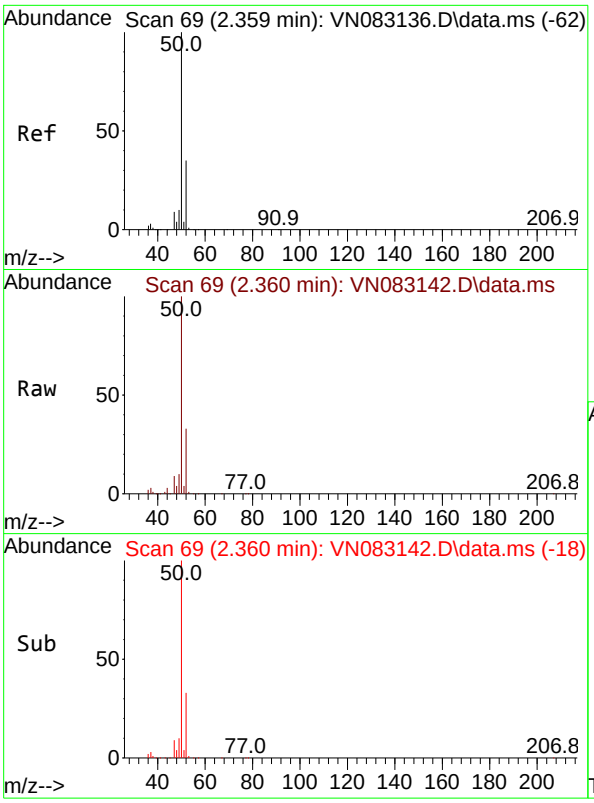


#2
Dichlorodifluoromethane
Concen: 47.102 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 85 Resp: 119481

Ion	Ratio	Lower	Upper
85	100		
87	31.6	15.7	47.0

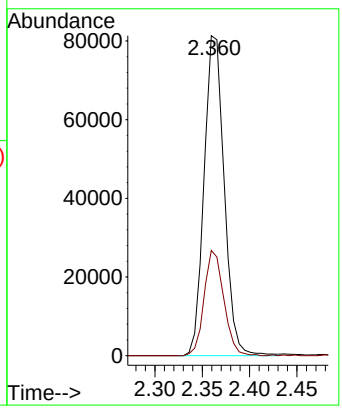




#3
Chloromethane
Concen: 46.238 ug/l
RT: 2.360 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 50 Resp: 12008

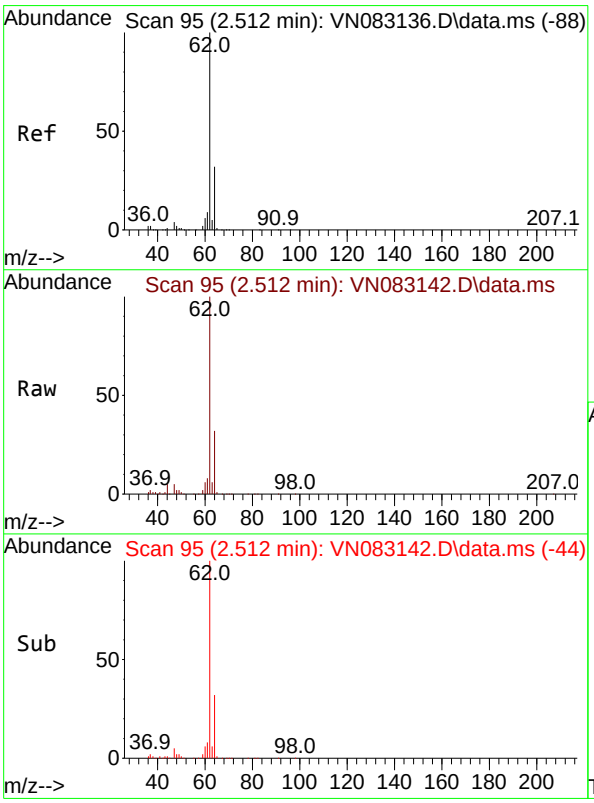
Ion	Ratio	Lower	Upper
50	100		
52	32.9	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

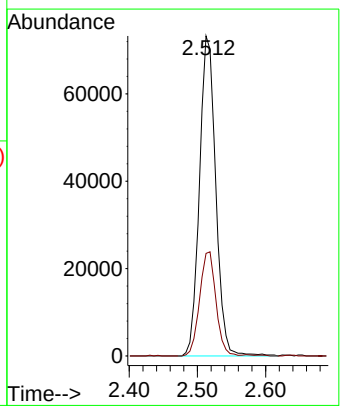
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

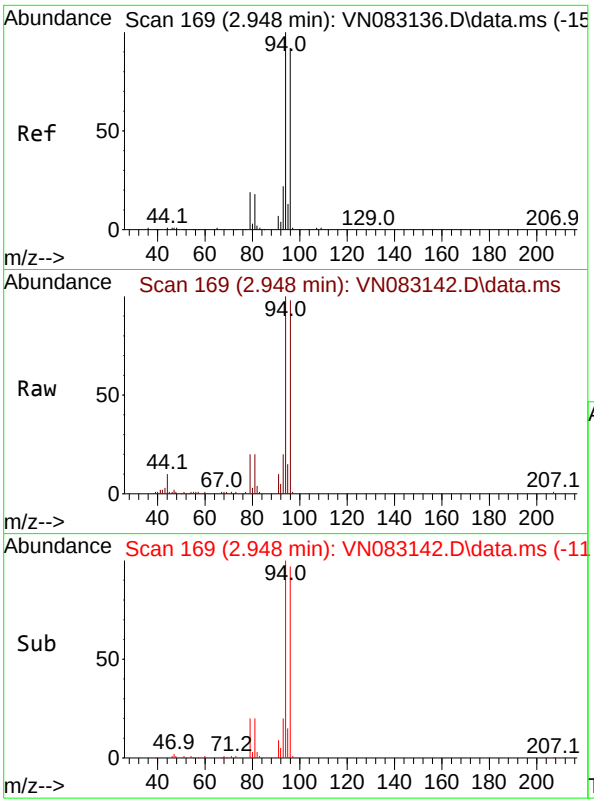


#4
Vinyl Chloride
Concen: 45.937 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

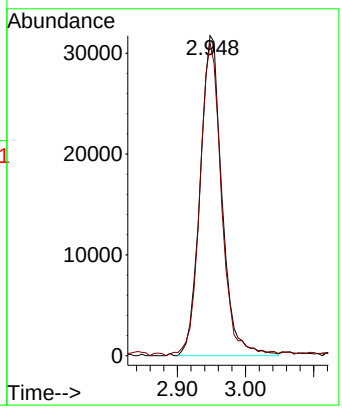
Tgt Ion: 94 Resp: 7067

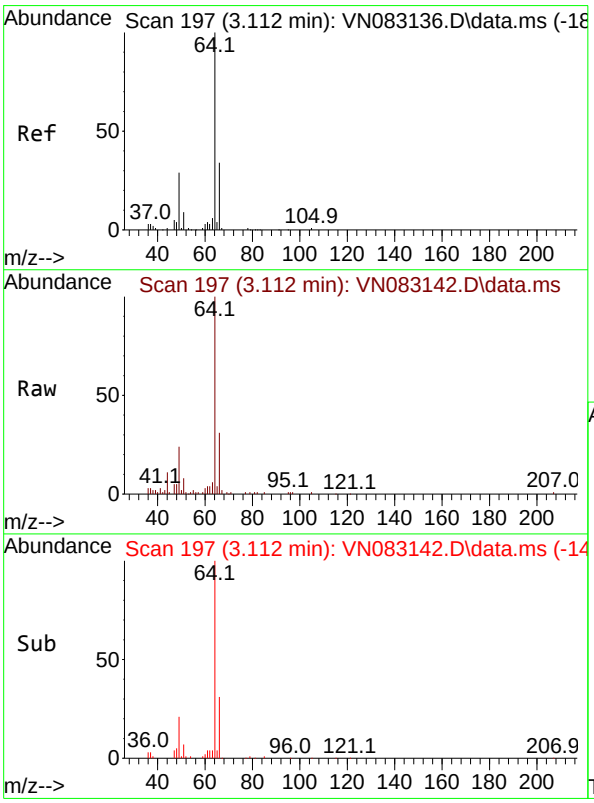
Ion	Ratio	Lower	Upper
94	100		
96	96.9	78.0	117.0

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

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

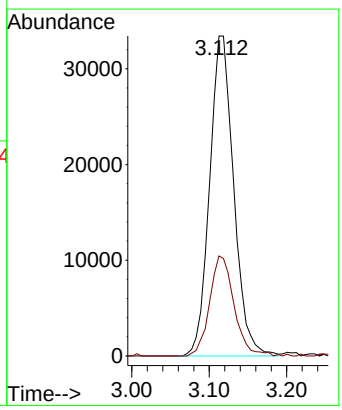


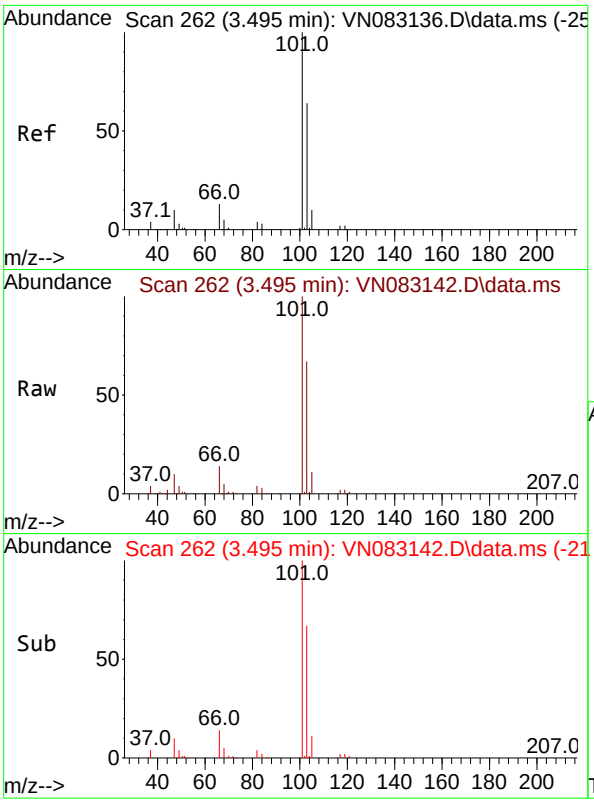


#6
Chloroethane
Concen: 43.725 ug/l
RT: 3.112 min Scan# 197
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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# 2
Delta R.T. -0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

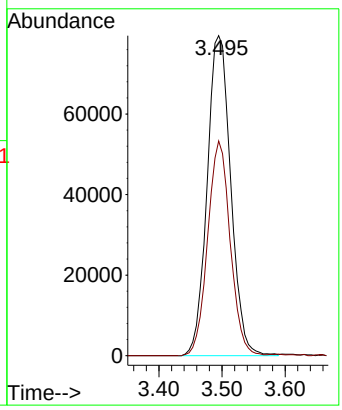
Tgt Ion:101 Resp: 20629

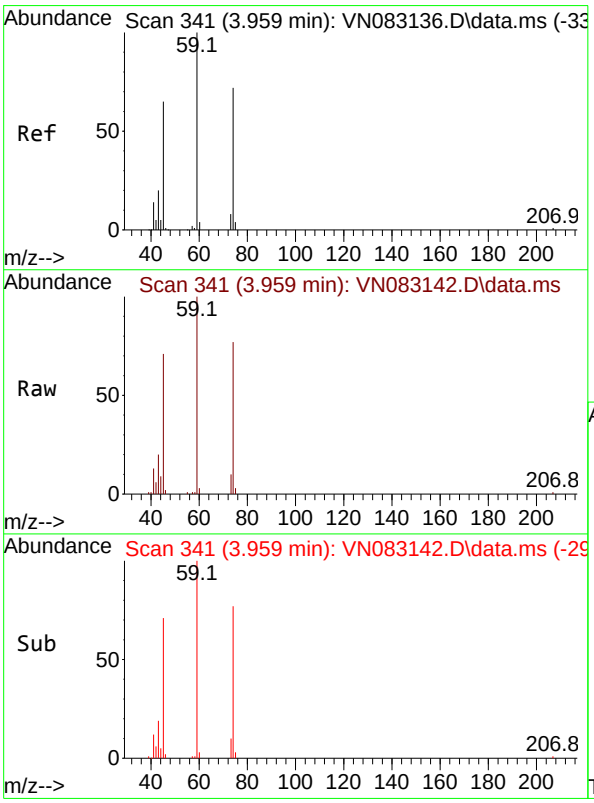
Ion	Ratio	Lower	Upper
101	100		
103	67.1	52.7	79.1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

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

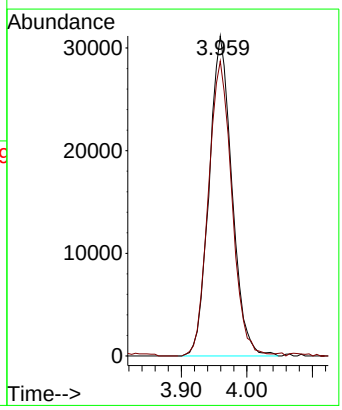


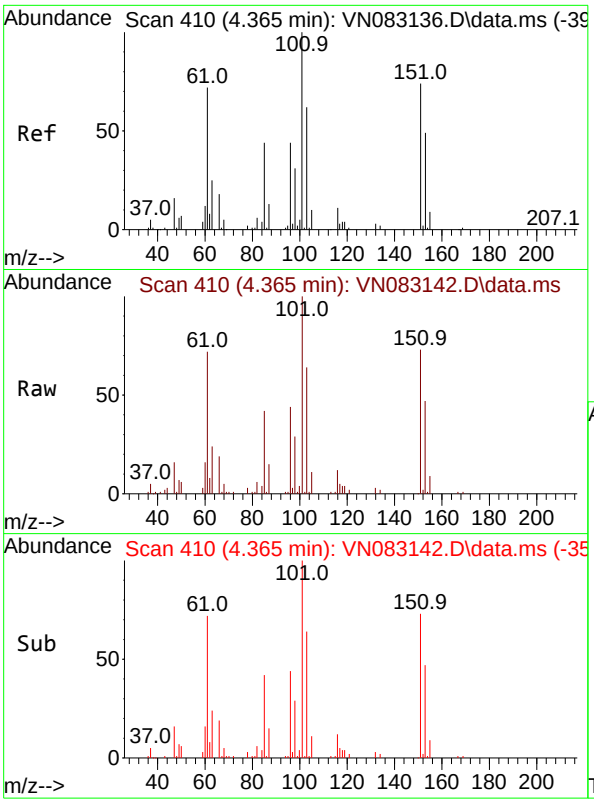


#8
Diethyl Ether
Concen: 46.259 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 74 Resp: 75355

Ion	Ratio	Lower	Upper
74	100		
45	94.7	55.5	166.3

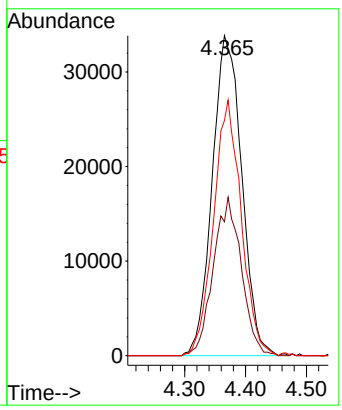




#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.176 ug/l
RT: 4.365 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:101 Resp: 11386

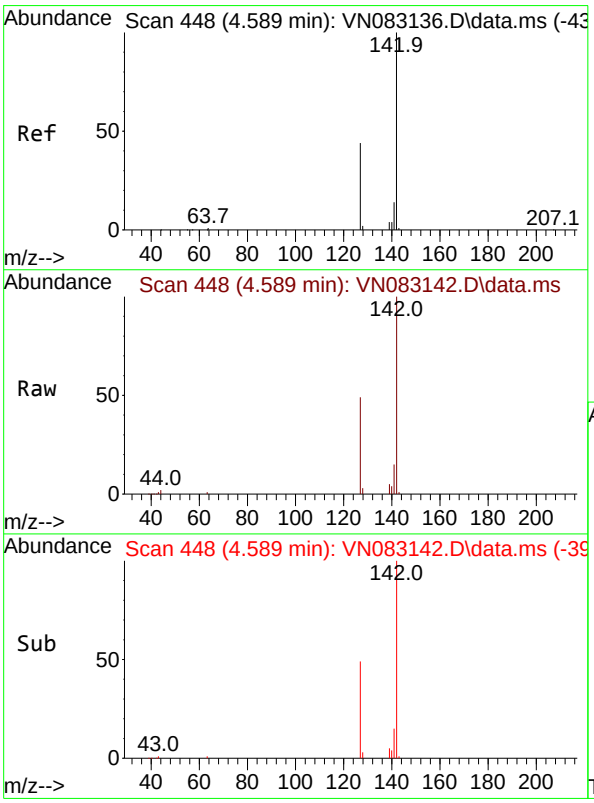
Ion	Ratio	Lower	Upper
101	100		
85	47.0	38.3	57.5
151	75.1	59.3	88.9



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

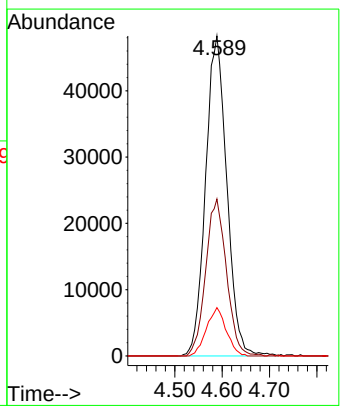
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

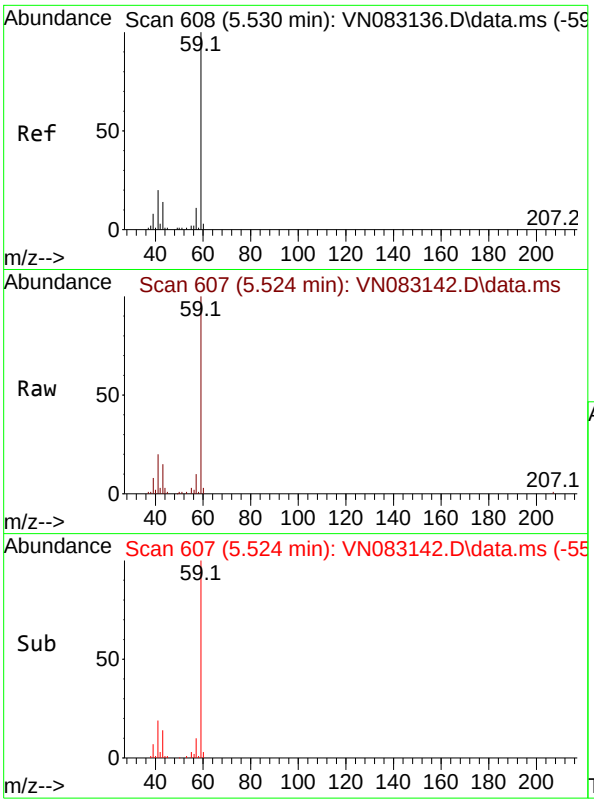


#10
Methyl Iodide
Concen: 47.349 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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# 6
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

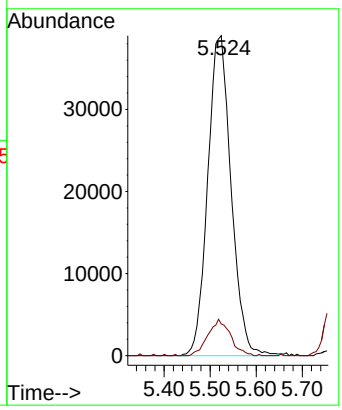
Tgt Ion: 59 Resp: 13771

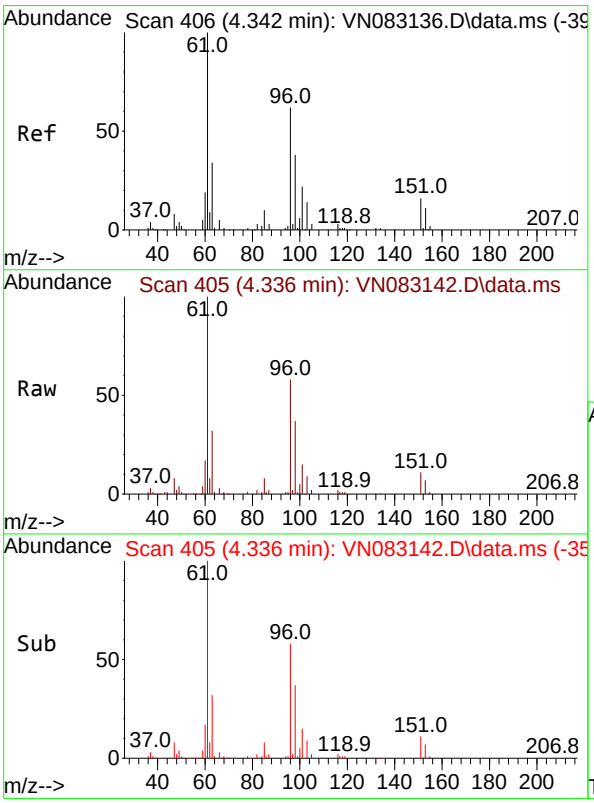
Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.9	13.3

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

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

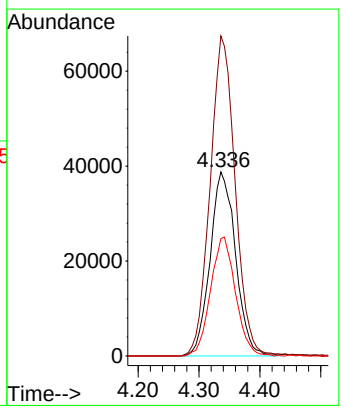


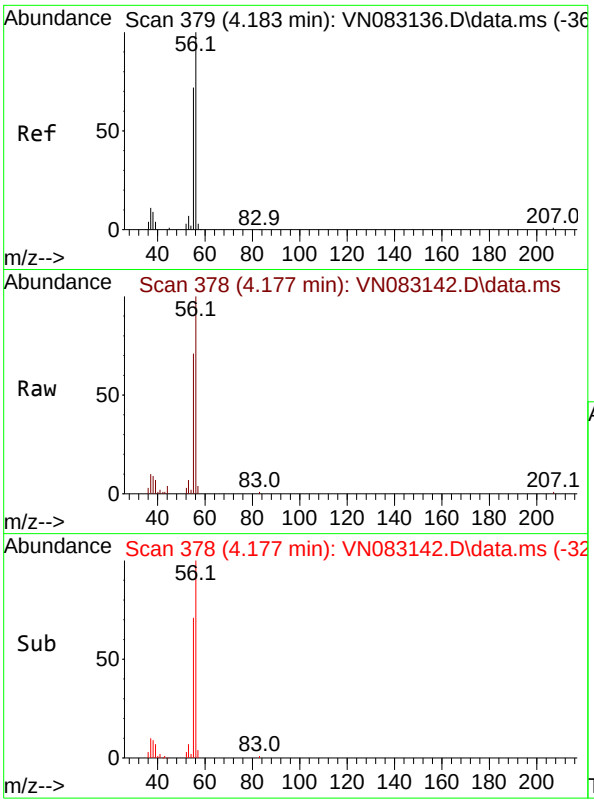


#12
1,1-Dichloroethene
Concen: 45.562 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

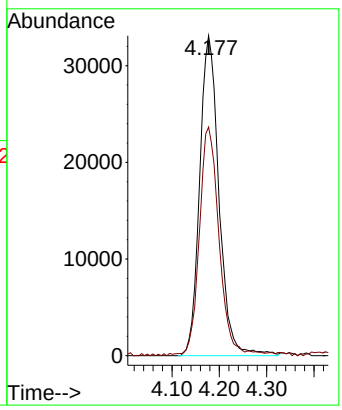




#13
Acrolein
Concen: 217.571 ug/l
RT: 4.177 min Scan# 3
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 56 Resp: 9382

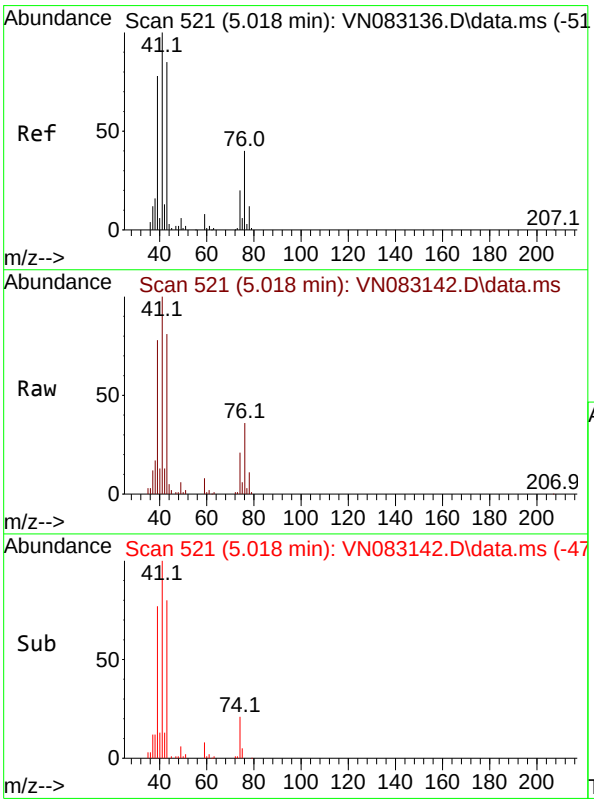
Ion	Ratio	Lower	Upper
56	100		
55	73.1	56.4	84.6



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

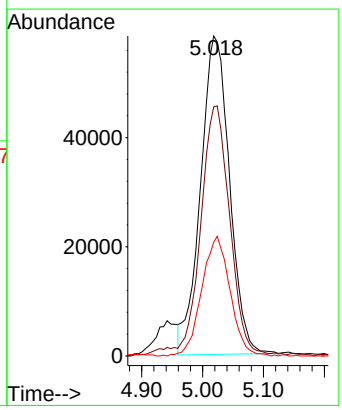
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

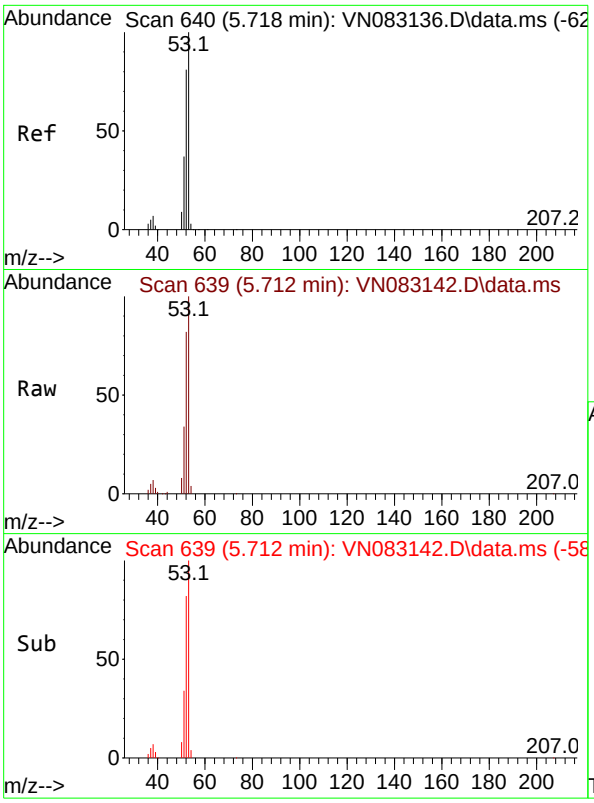


#14
Allyl chloride
Concen: 41.173 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

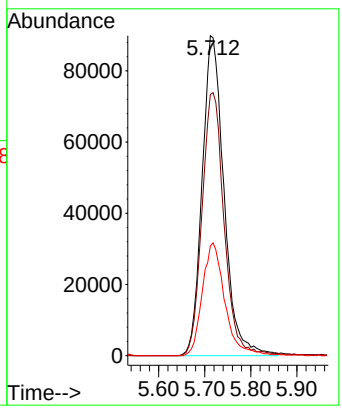




#15
Acrylonitrile
Concen: 217.950 ug/l
RT: 5.712 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 53 Resp: 29659

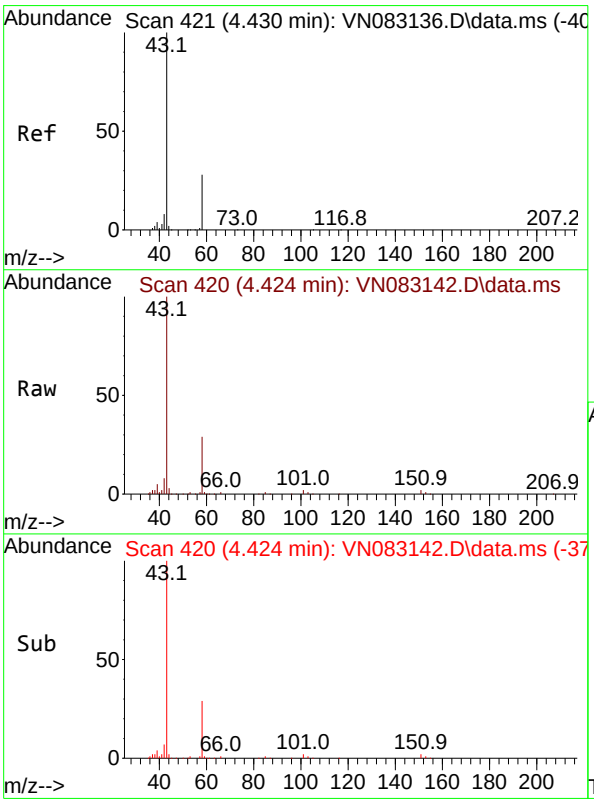
Ion	Ratio	Lower	Upper
53	100		
52	82.9	66.6	100.0
51	36.5	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

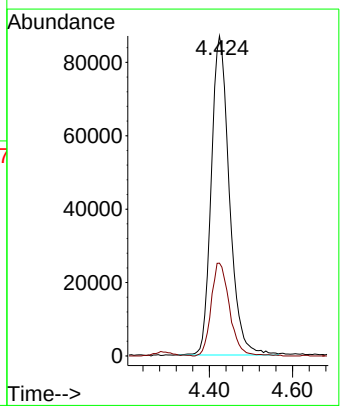
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

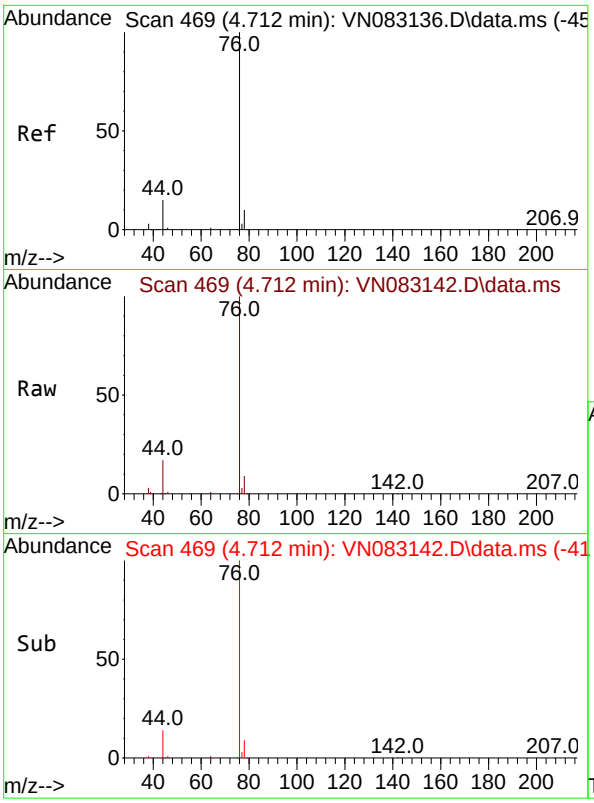


#16
Acetone
Concen: 210.840 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 43 Resp: 262677

Ion	Ratio	Lower	Upper
43	100		
58	28.9	21.8	32.6

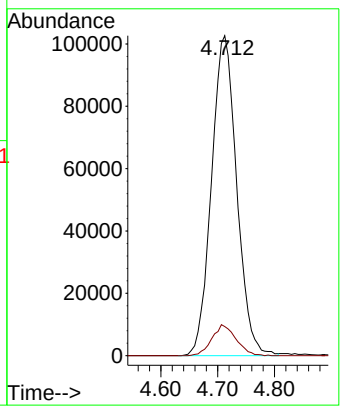




#17
Carbon Disulfide
Concen: 43.689 ug/l
RT: 4.712 min Scan# 4(
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 76 Resp: 31698(

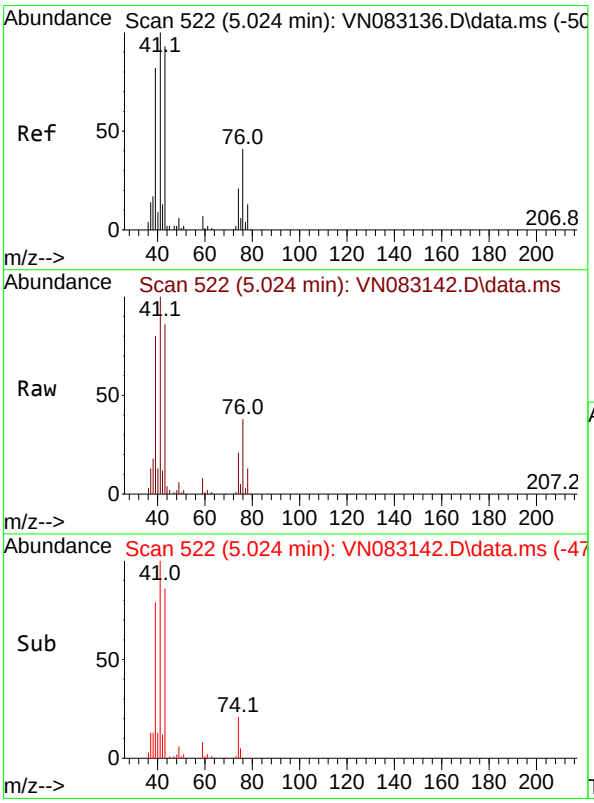
Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

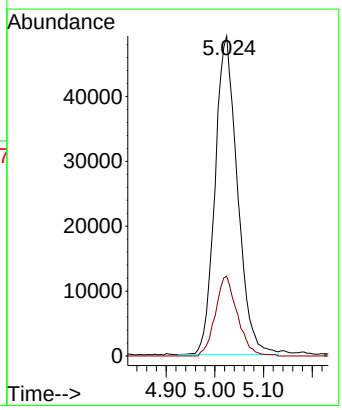
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

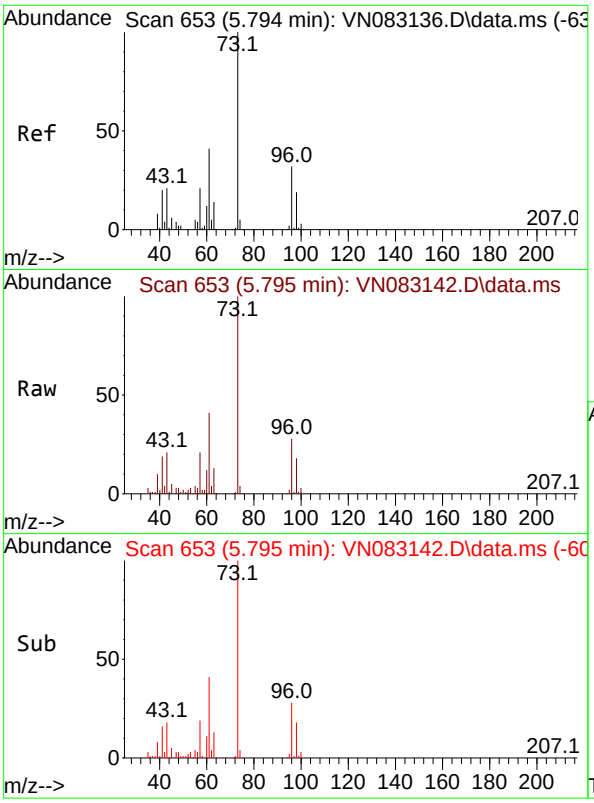


#18
Methyl Acetate
Concen: 42.397 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 43 Resp: 157374

Ion	Ratio	Lower	Upper
43	100		
74	24.6	16.3	24.5#

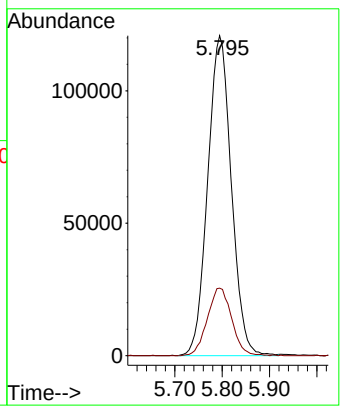




#19
Methyl tert-butyl Ether
Concen: 46.781 ug/l
RT: 5.795 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 73 Resp: 41869

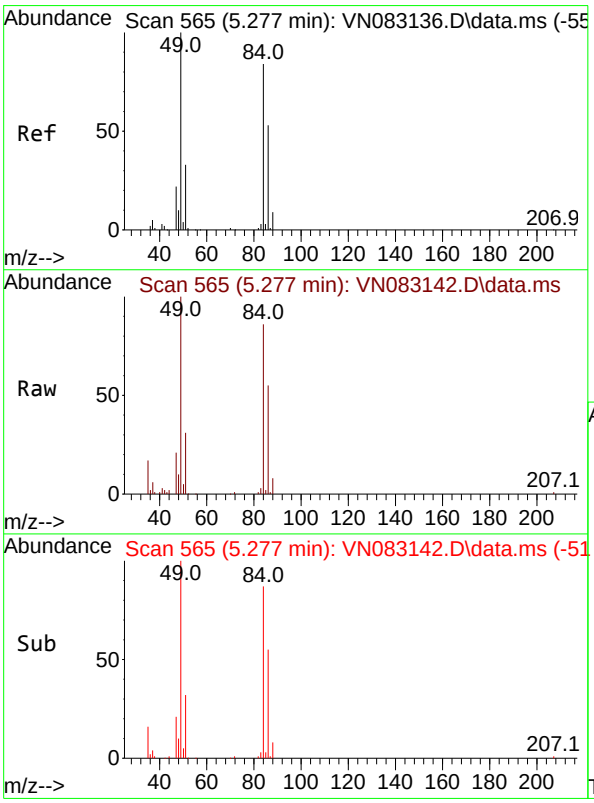
Ion	Ratio	Lower	Upper
73	100		
57	21.1	17.9	26.9



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

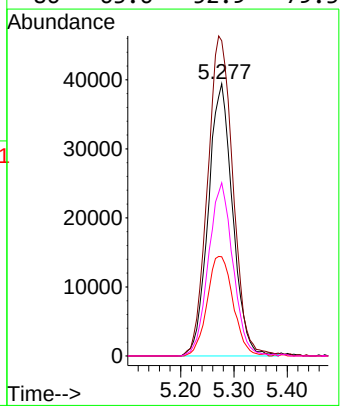
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

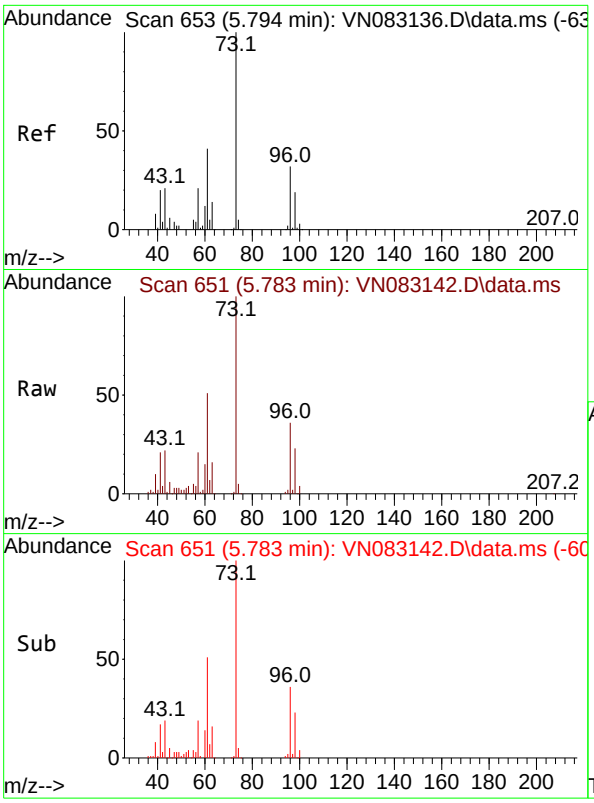


#20
Methylene Chloride
Concen: 43.645 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

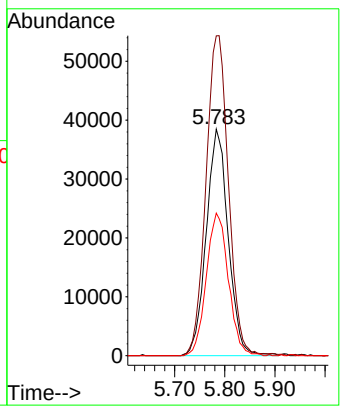




#21
trans-1,2-Dichloroethene
Concen: 45.671 ug/l
RT: 5.783 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 96 Resp: 11704

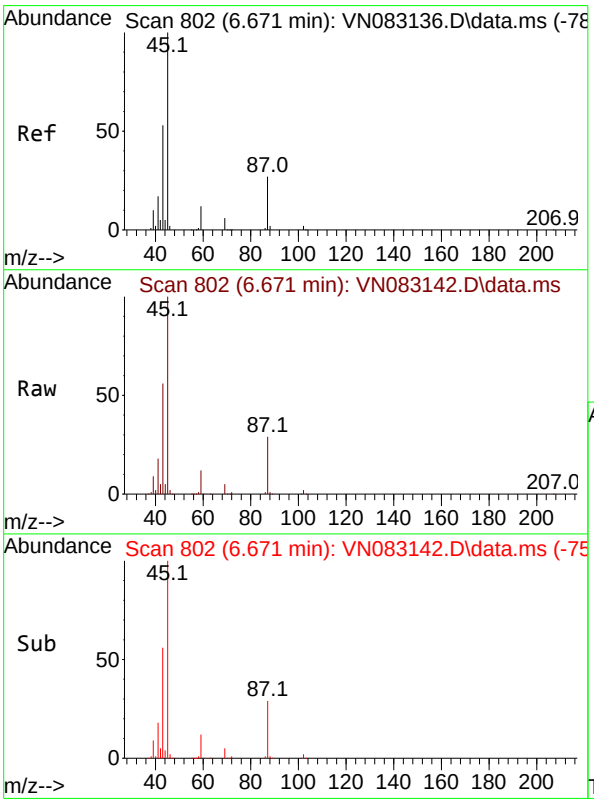
Ion	Ratio	Lower	Upper
96	100		
61	141.1	123.4	185.2
98	62.9	49.3	73.9



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

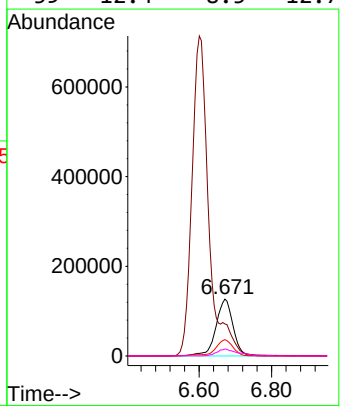
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

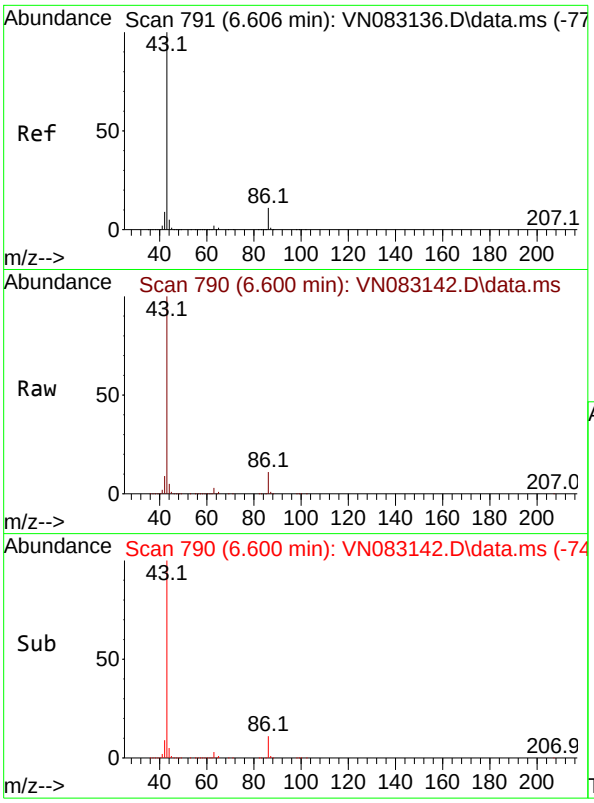


#22
Diisopropyl ether
Concen: 46.881 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

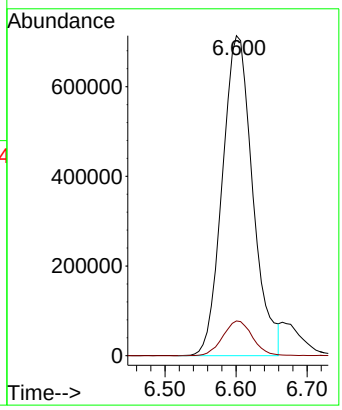




#23
Vinyl Acetate
Concen: 235.414 ug/l
RT: 6.600 min Scan# 7
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 43 Resp: 212534

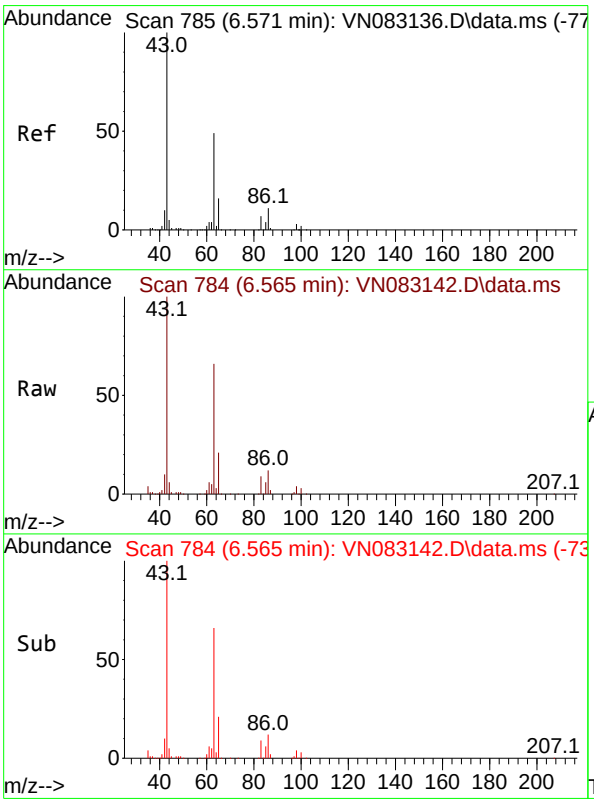
Ion	Ratio	Lower	Upper
43	100		
86	10.9	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

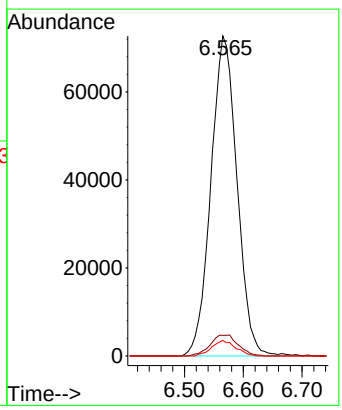
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

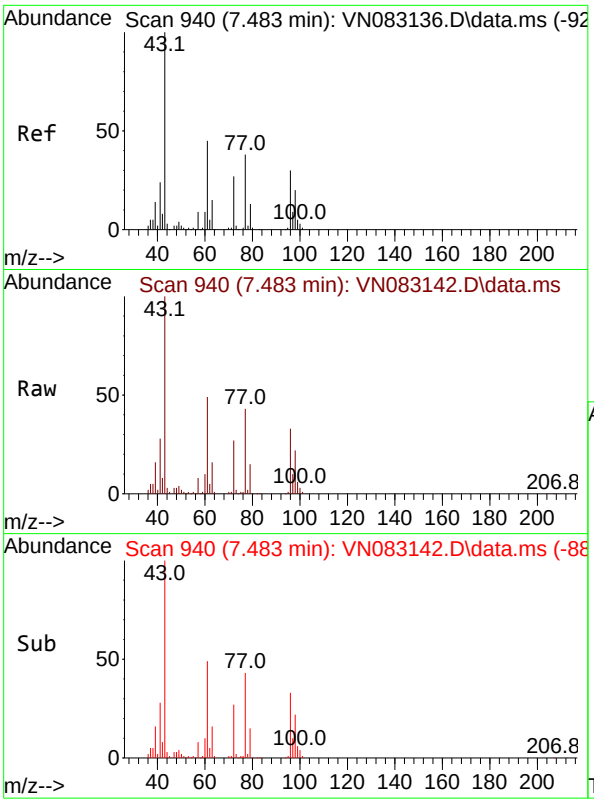


#24
1,1-Dichloroethane
Concen: 46.685 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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# 94
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

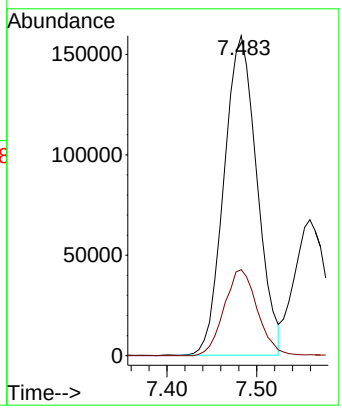
Tgt Ion: 43 Resp: 40513

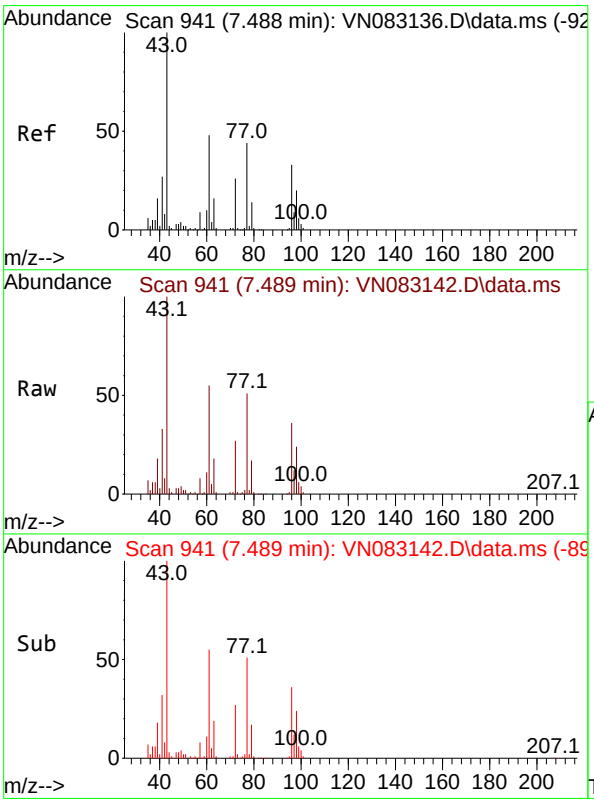
Ion	Ratio	Lower	Upper
43	100		
72	26.9	18.2	27.2

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

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

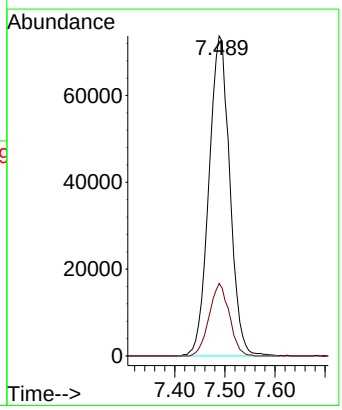


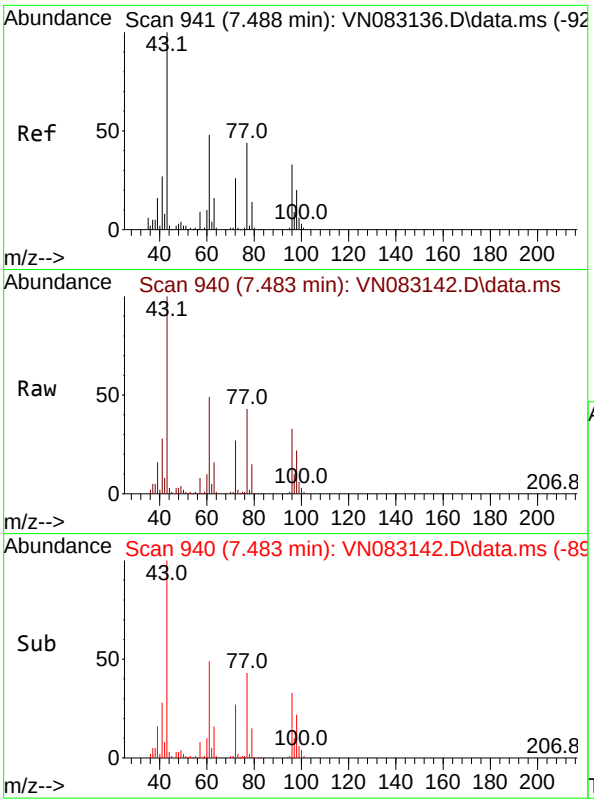


#26
2,2-Dichloropropane
Concen: 47.853 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 77 Resp: 213355

Ion	Ratio	Lower	Upper
77	100		
97	21.9	10.3	30.9

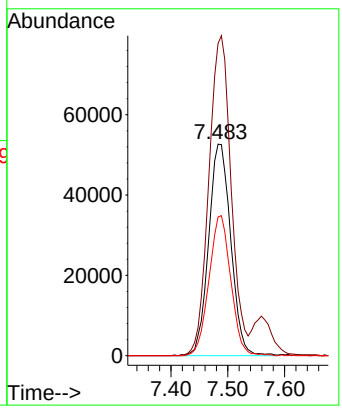




#27
cis-1,2-Dichloroethene
Concen: 46.113 ug/l
RT: 7.483 min Scan# 94
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 96 Resp: 14260

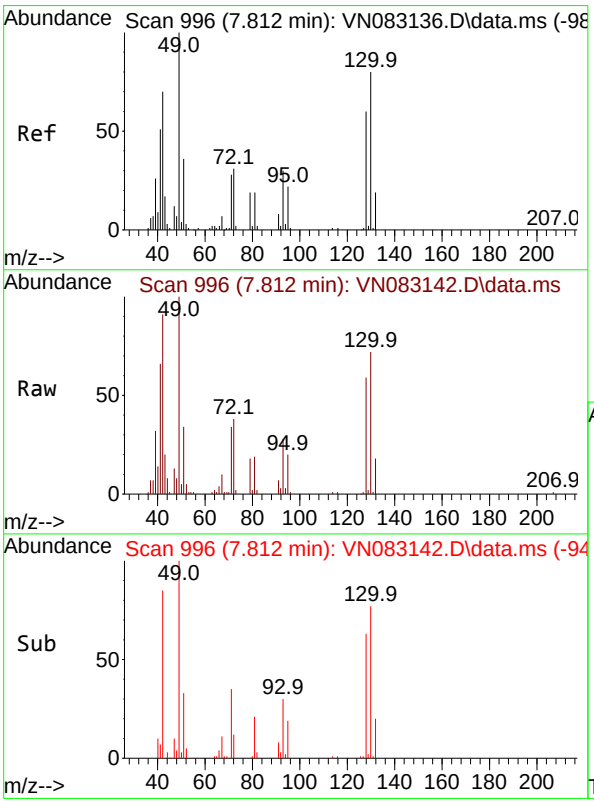
Ion	Ratio	Lower	Upper
96	100		
61	151.9	0.0	329.6
98	65.2	0.0	128.6



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

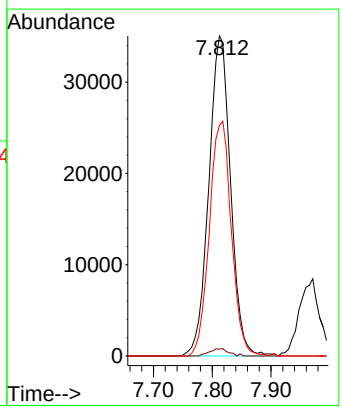
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

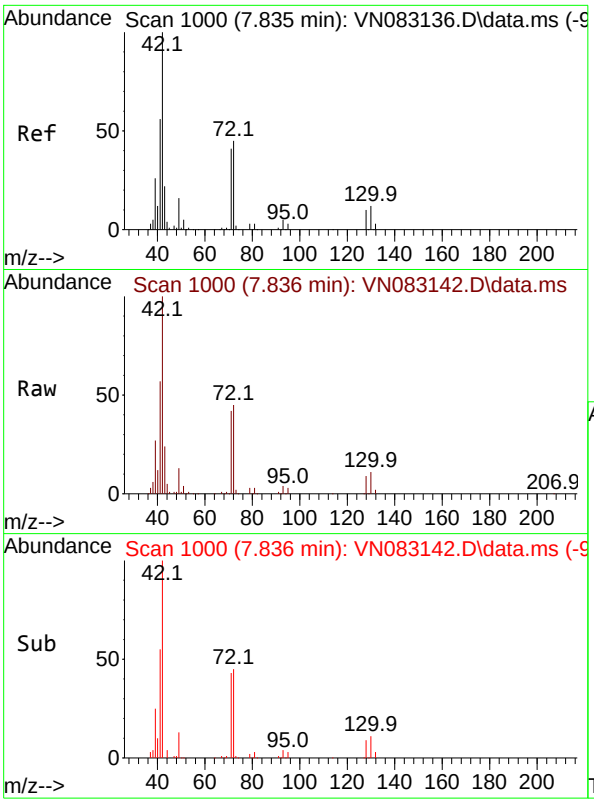


#28
Bromochloromethane
Concen: 45.986 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

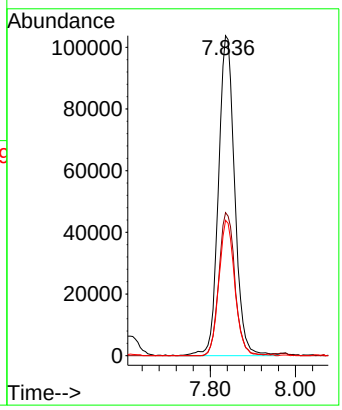




#29
Tetrahydrofuran
Concen: 222.147 ug/l
RT: 7.836 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 42 Resp: 27471

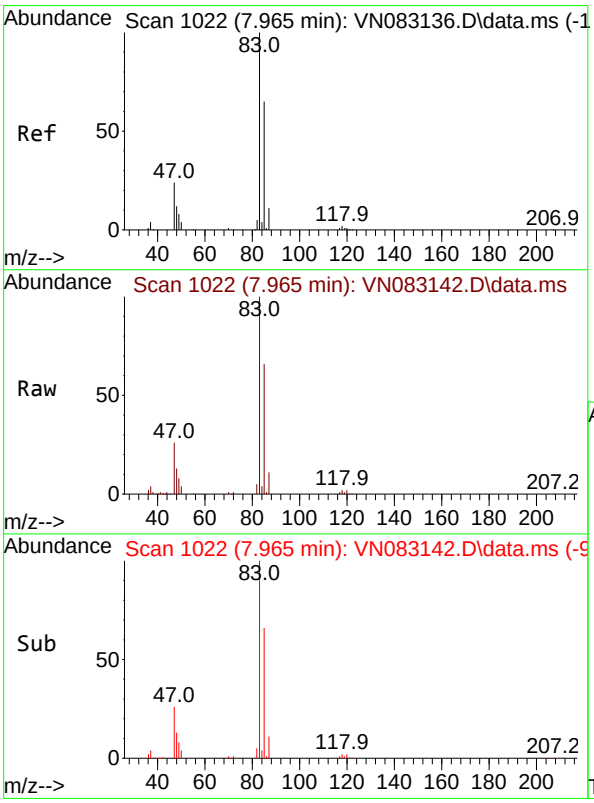
Ion	Ratio	Lower	Upper
42	100		
72	44.2	30.0	45.0
71	41.5	28.3	42.5



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

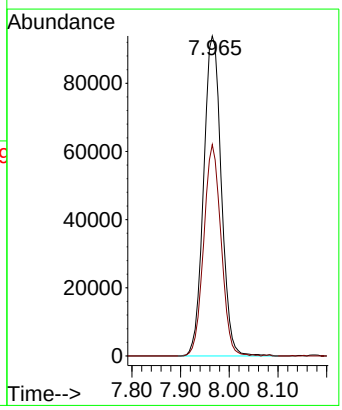
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

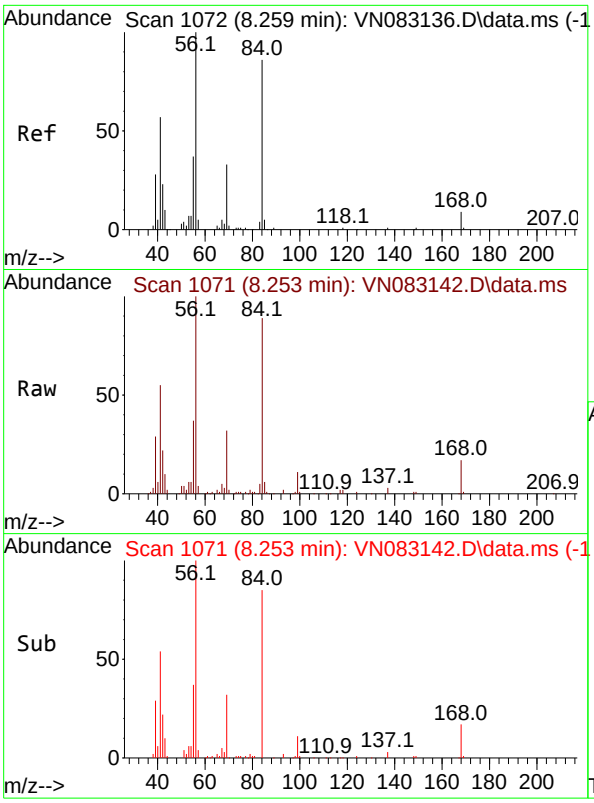


#30
Chloroform
Concen: 47.387 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 83 Resp: 236359

Ion	Ratio	Lower	Upper
83	100		
85	66.1	50.9	76.3

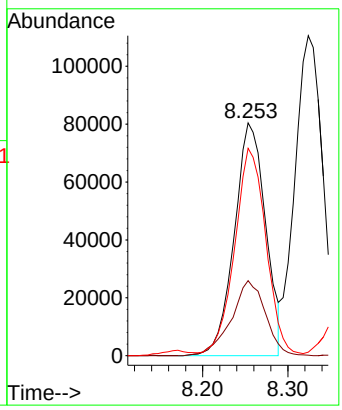




#31
Cyclohexane
Concen: 43.474 ug/l
RT: 8.253 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 56 Resp: 20512

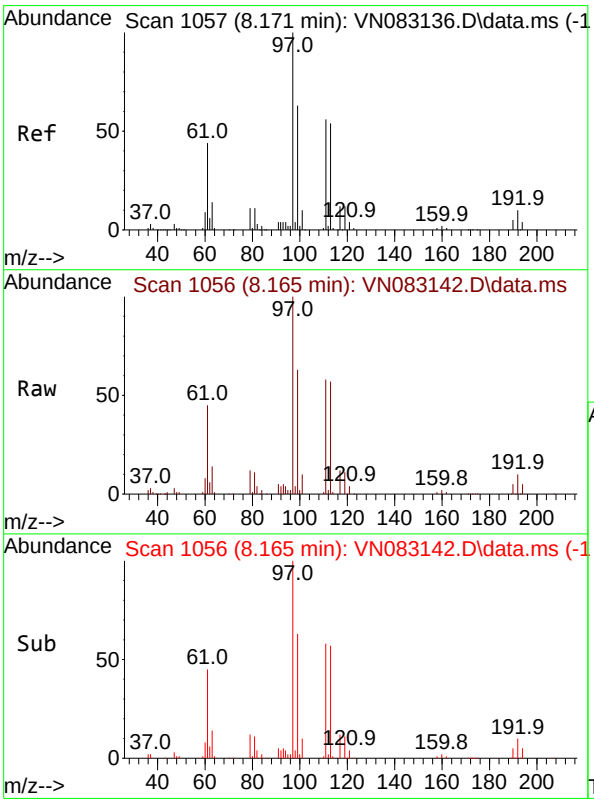
Ion	Ratio	Lower	Upper
56	100		
69	32.3	24.5	36.7
84	86.7	66.0	99.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

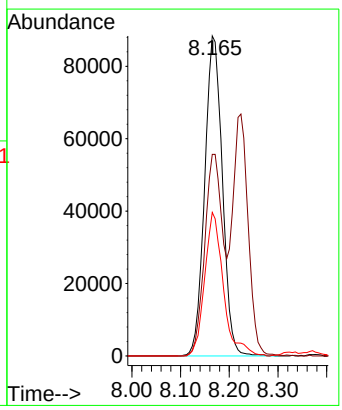
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

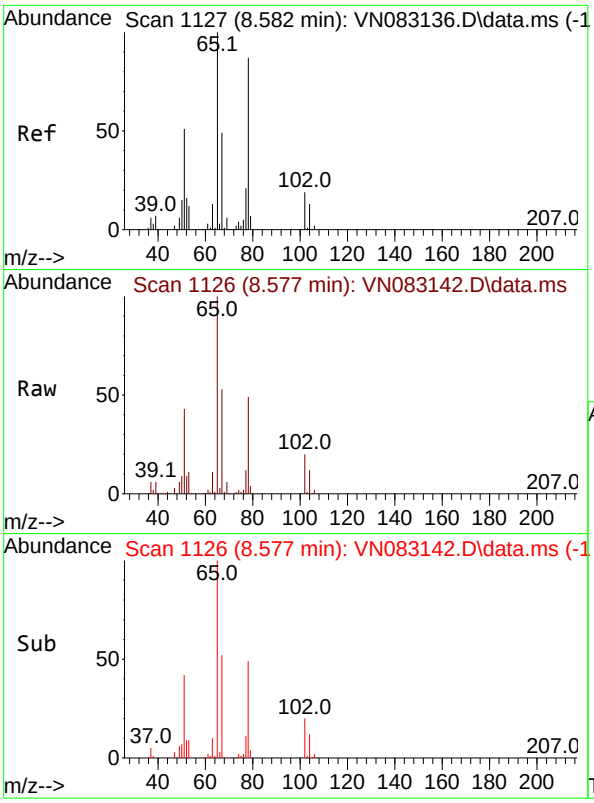


#32
1,1,1-Trichloroethane
Concen: 47.135 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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# 1
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

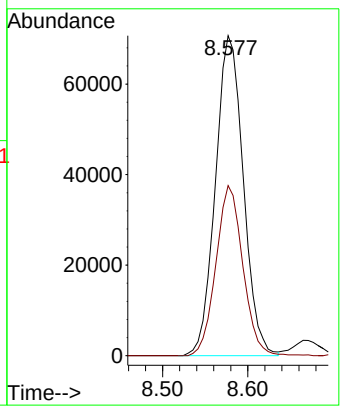
Tgt Ion: 65 Resp: 16105

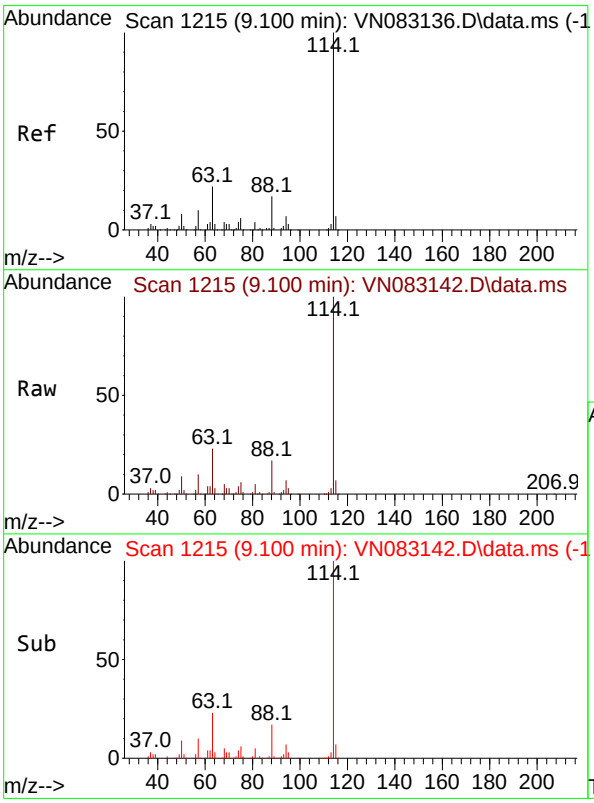
Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	104.4

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

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

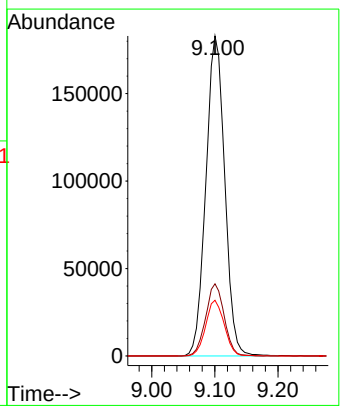


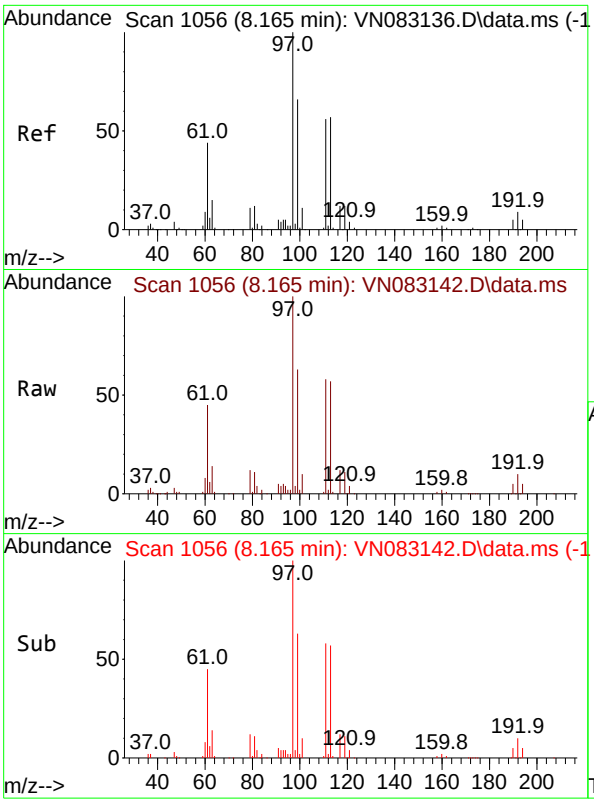


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

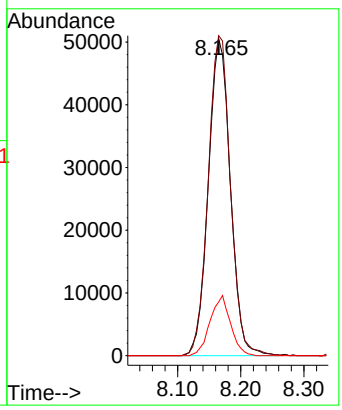




#35
Dibromofluoromethane
Concen: 51.549 ug/l
RT: 8.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:113 Resp: 12226

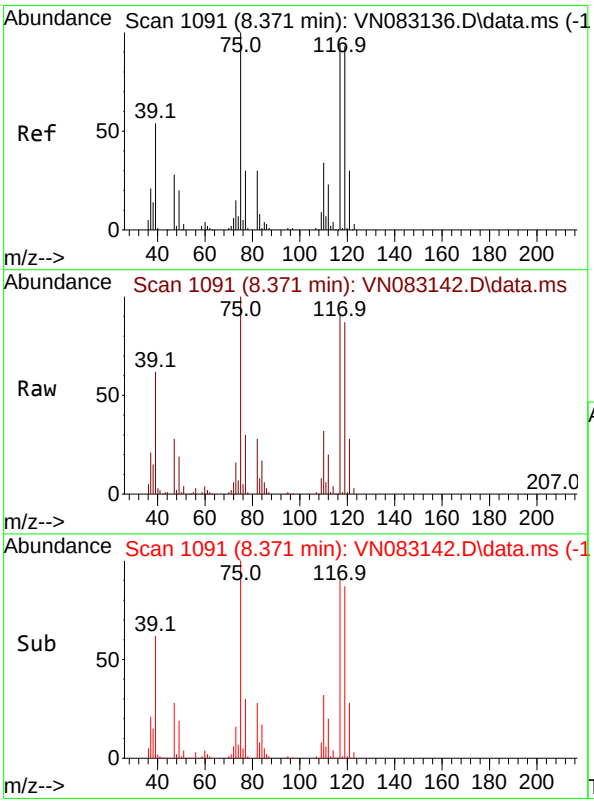
Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.4	123.6
192	17.6	14.9	22.3



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

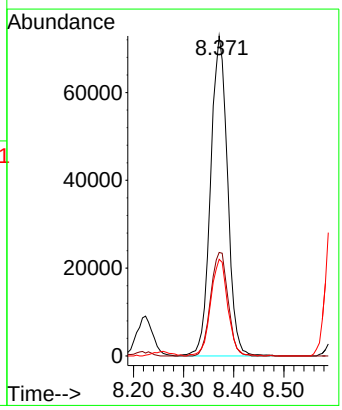
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

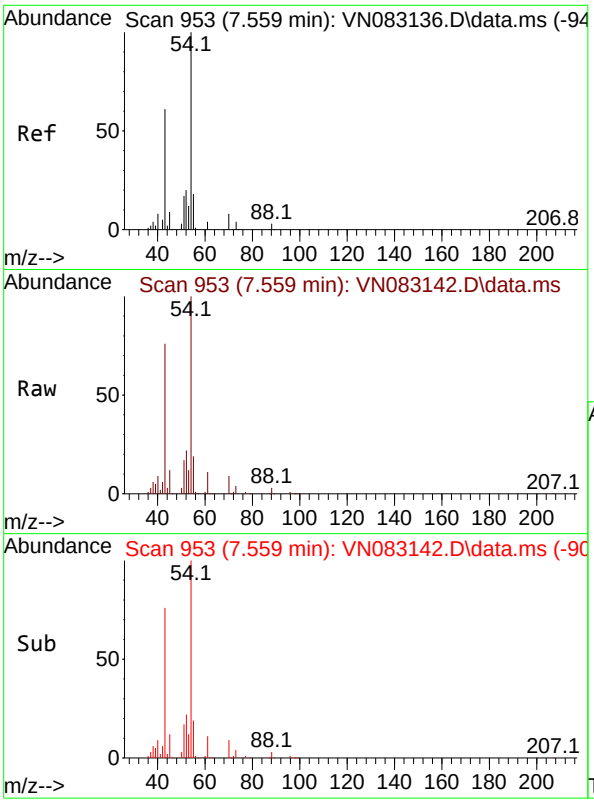


#36
1,1-Dichloropropene
Concen: 47.732 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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# 9
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

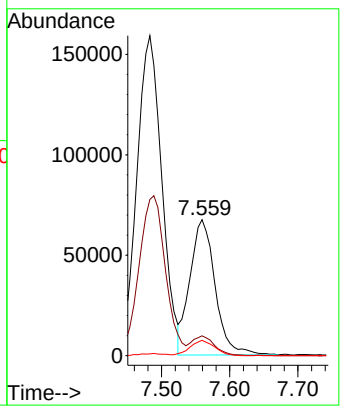
Tgt Ion: 43 Resp: 17324

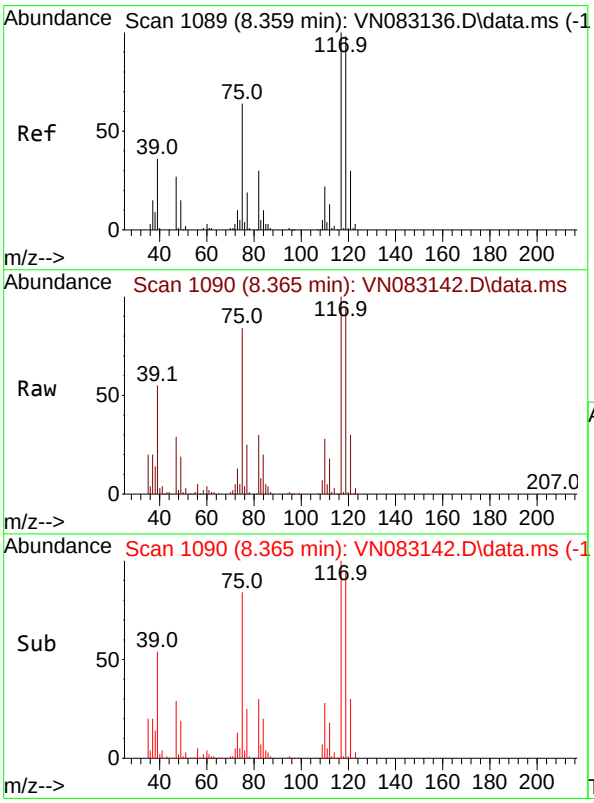
Ion	Ratio	Lower	Upper
43	100		
61	12.9	9.3	13.9
70	11.0	7.0	10.6

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

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

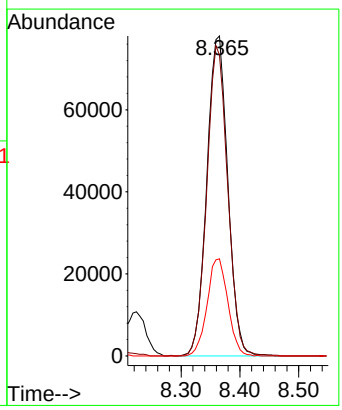


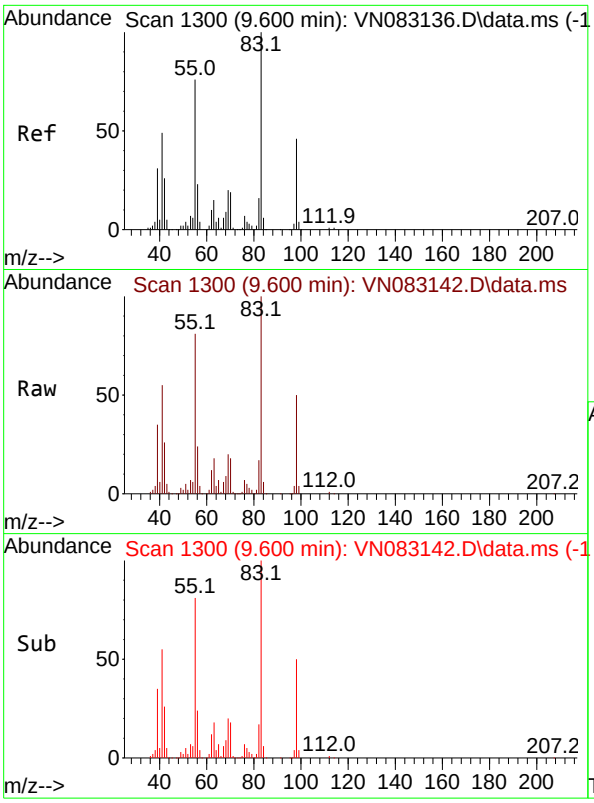


#38
Carbon Tetrachloride
Concen: 47.904 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

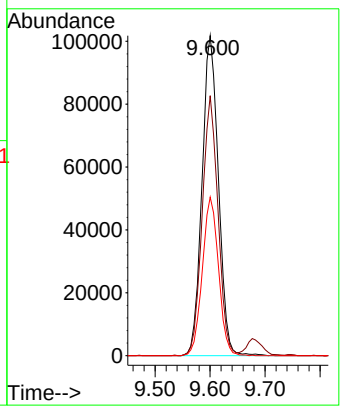
Tgt Ion: 83 Resp: 21074

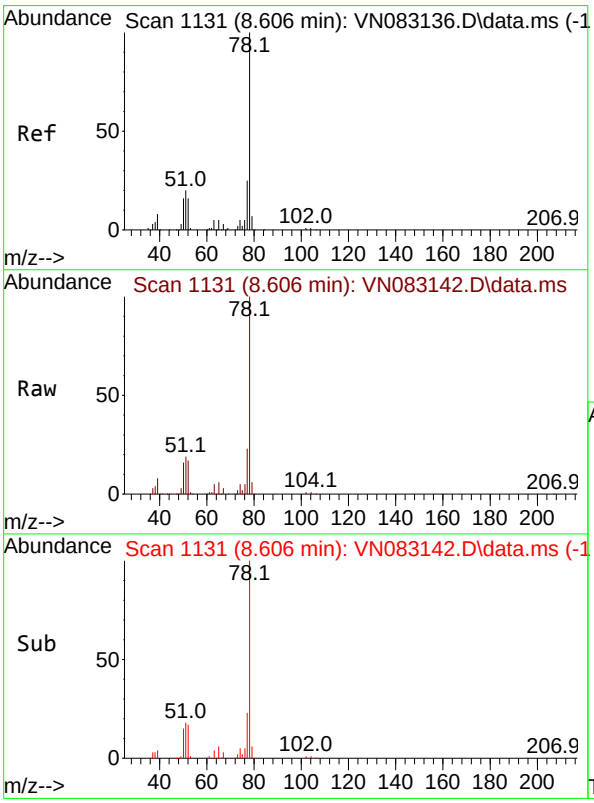
Ion	Ratio	Lower	Upper
83	100		
55	81.3	66.4	99.6
98	49.5	40.7	61.1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

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

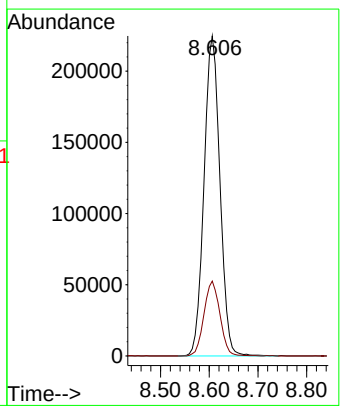


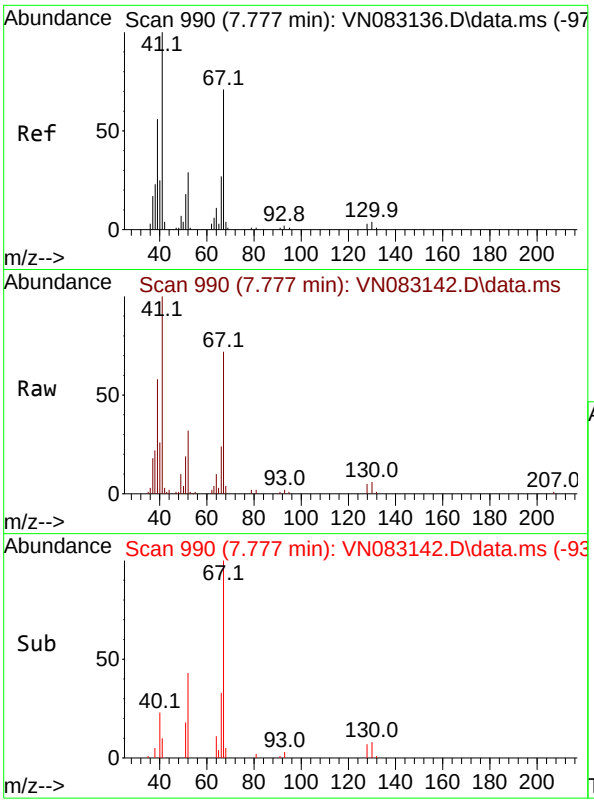


#40
Benzene
Concen: 47.635 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 78 Resp: 509159

Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.0	28.4

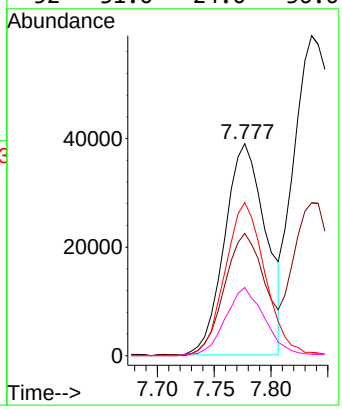




#41
Methacrylonitrile
Concen: 43.013 ug/l
RT: 7.777 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 41 Resp: 9825

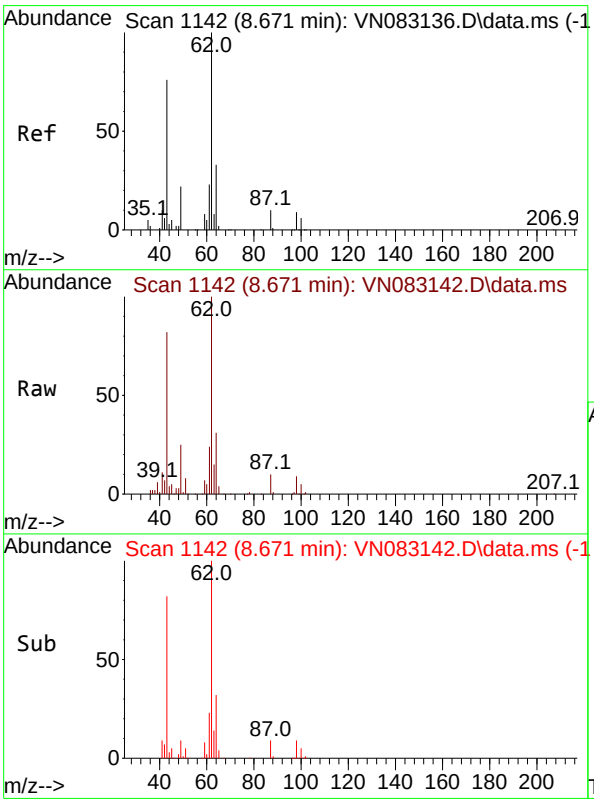
Ion	Ratio	Lower	Upper
41	100		
39	57.7	45.5	68.3
67	70.8	50.5	75.7
52	31.0	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

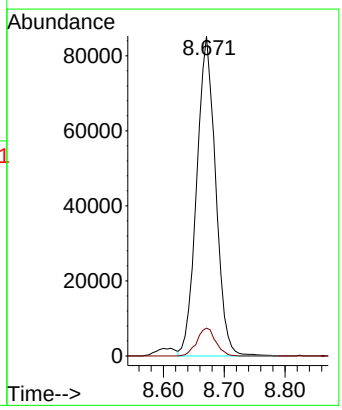
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

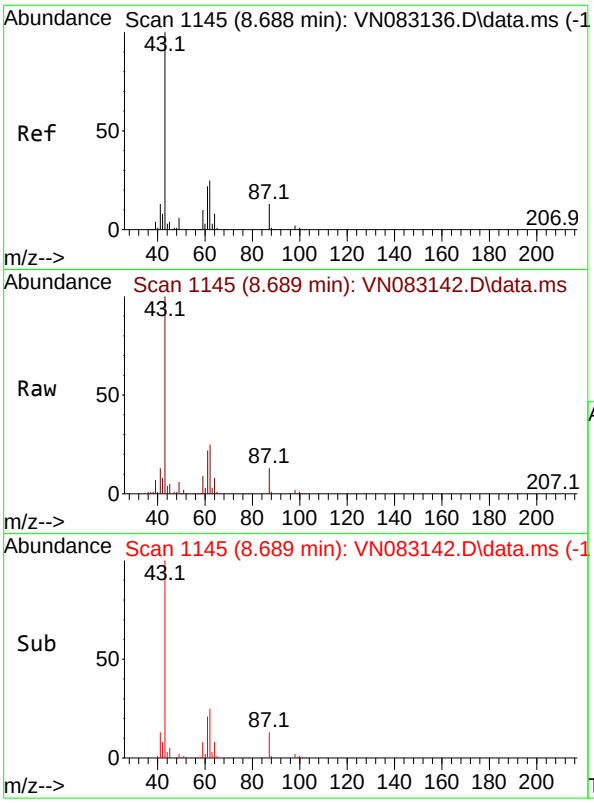


#42
1,2-Dichloroethane
Concen: 47.310 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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# 1
Delta R.T. 0.001 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

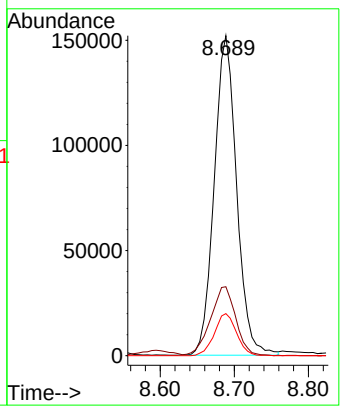
Tgt Ion: 43 Resp: 31954

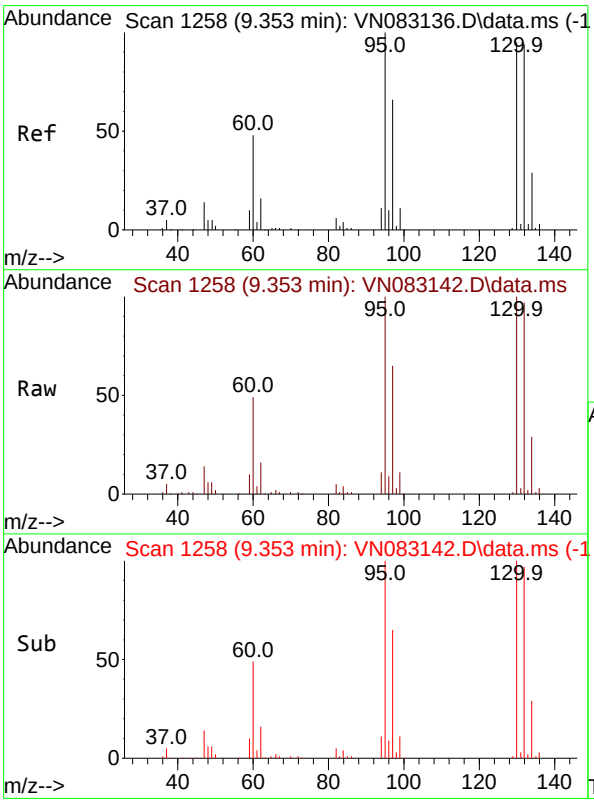
Ion	Ratio	Lower	Upper
43	100		
61	24.3	17.8	26.6
87	13.0	8.2	12.2

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

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

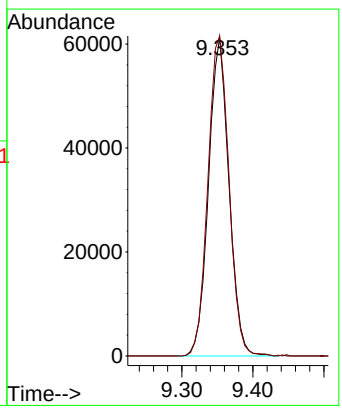


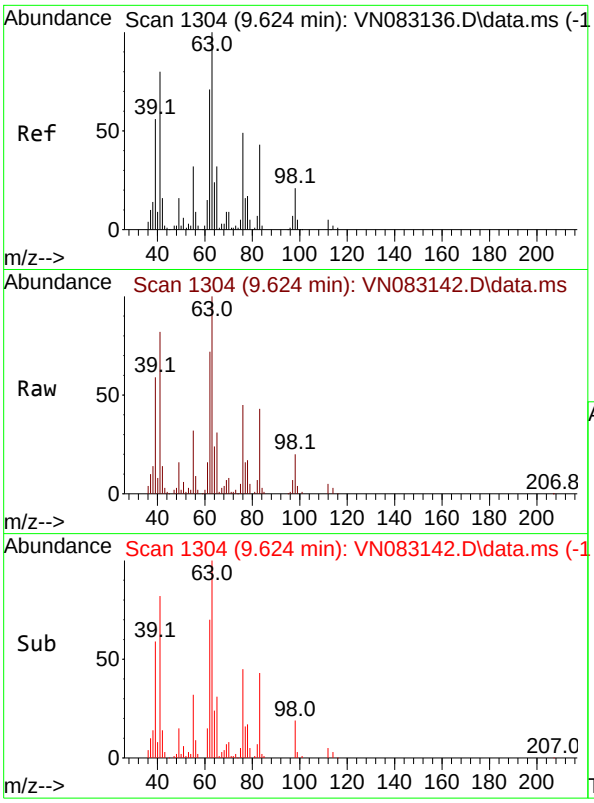


#44
Trichloroethene
Concen: 47.994 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

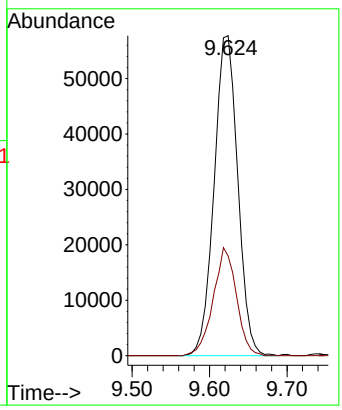
Tgt Ion: 63 Resp: 12231

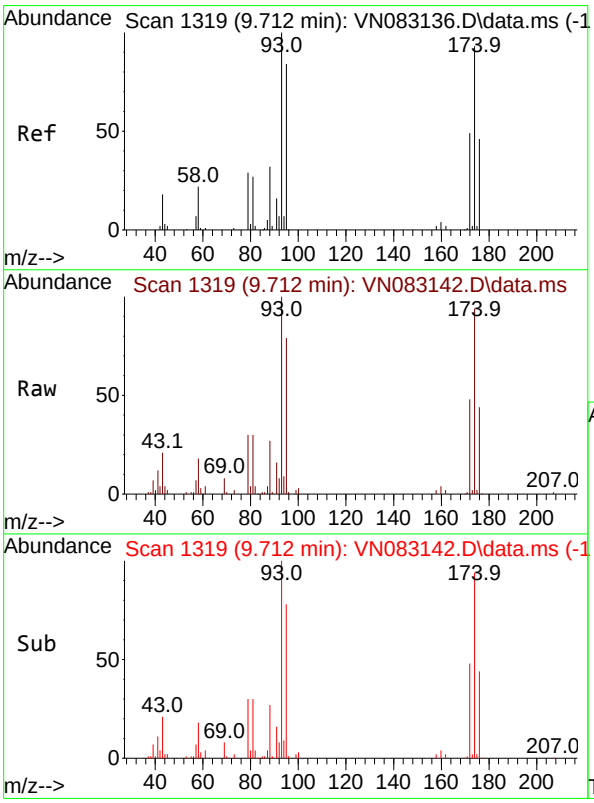
Ion	Ratio	Lower	Upper
63	100		
65	31.2	24.4	36.6

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

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

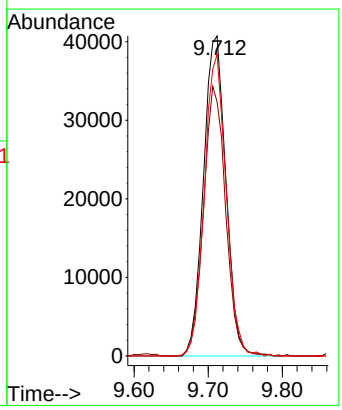


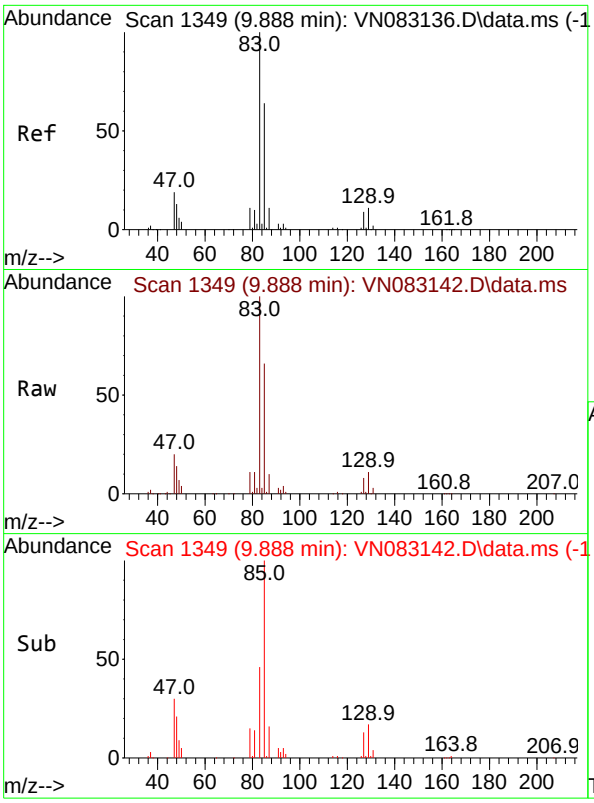


#46
Dibromomethane
Concen: 47.124 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

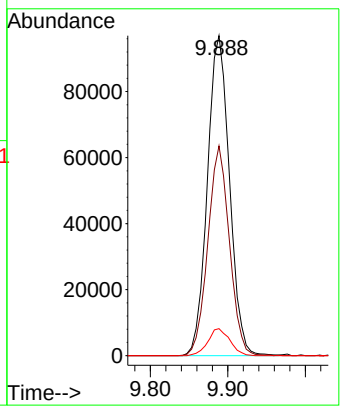




#47
Bromodichloromethane
Concen: 47.047 ug/l
RT: 9.888 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 83 Resp: 19184

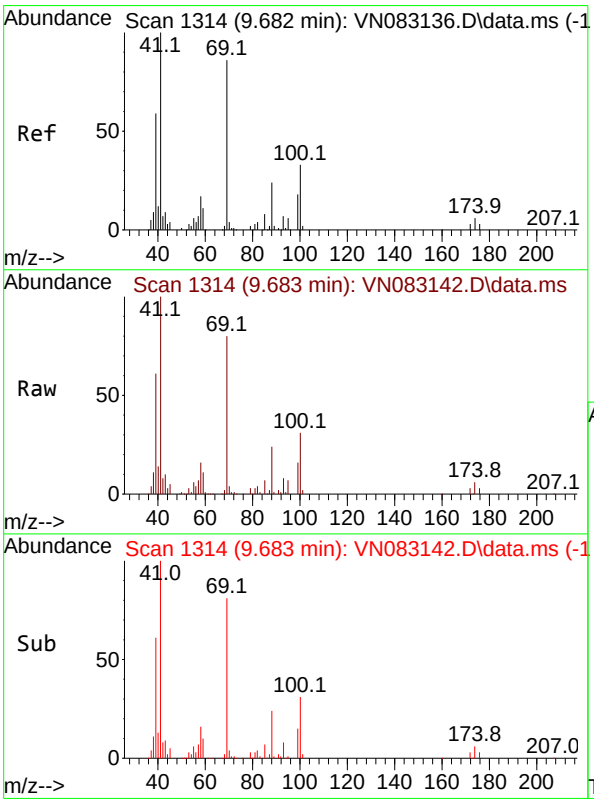
Ion	Ratio	Lower	Upper
83	100		
85	65.5	51.1	76.7
127	8.5	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

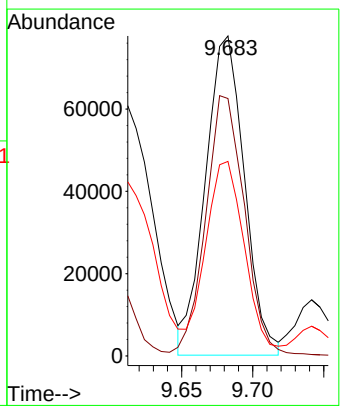
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

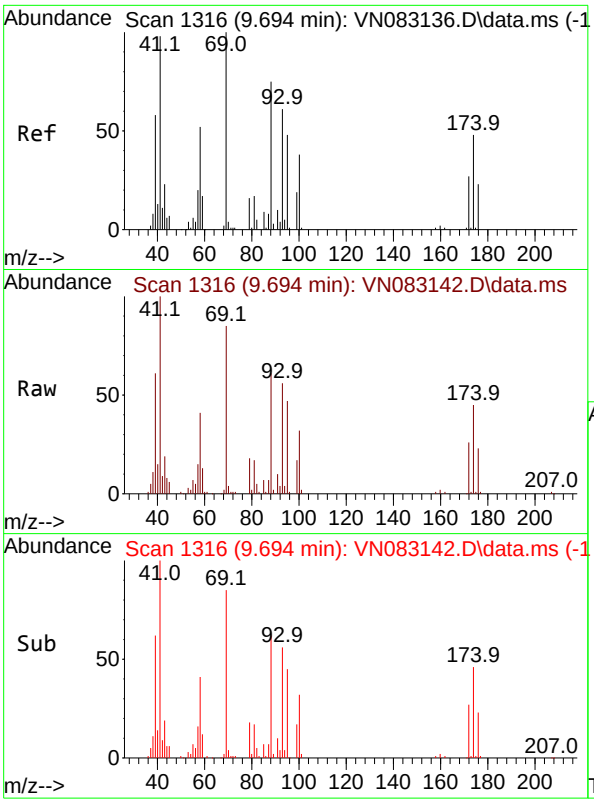


#48
Methyl methacrylate
Concen: 44.609 ug/l
RT: 9.683 min Scan# 1314
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

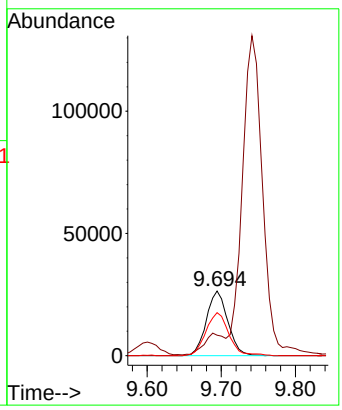
Tgt Ion: 88 Resp: 5304

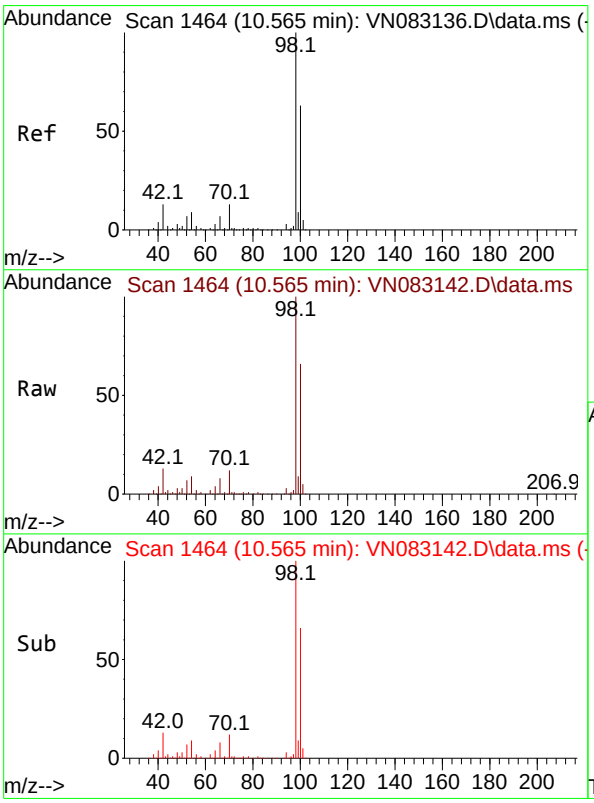
Ion	Ratio	Lower	Upper
88	100		
43	32.0	27.8	41.8
58	71.4	59.4	89.0

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

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

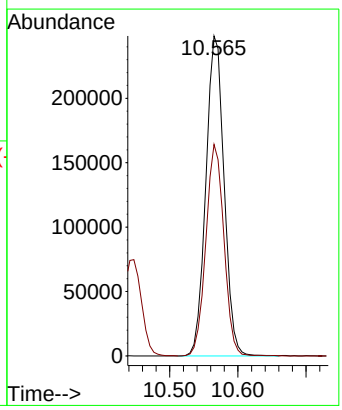


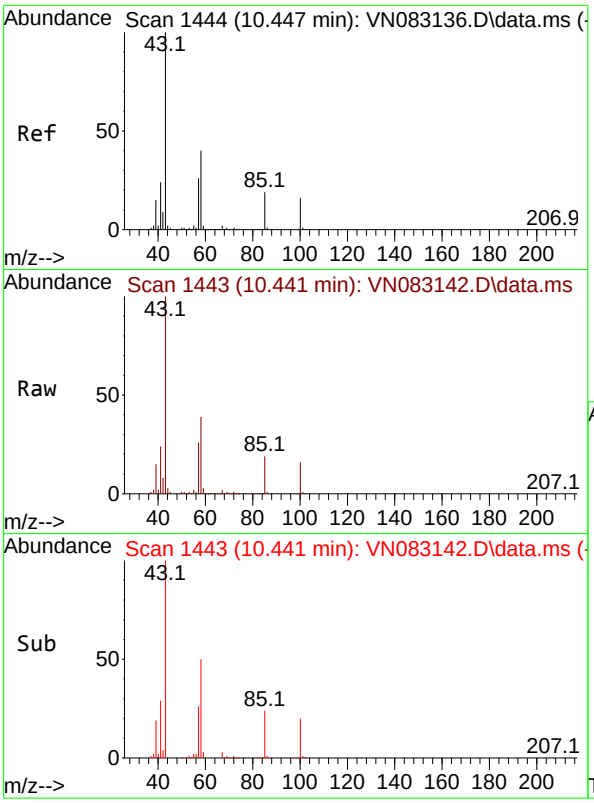


#50
Toluene-d8
Concen: 52.175 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 98 Resp: 461627

Ion	Ratio	Lower	Upper
98	100		
100	65.5	51.5	77.3

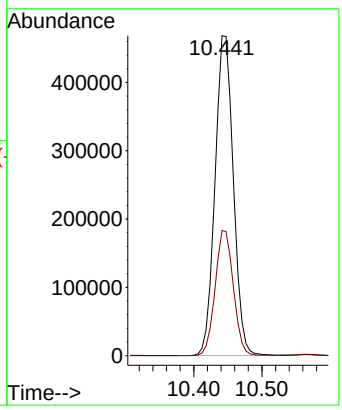




#51
4-Methyl-2-Pentanone
Concen: 230.917 ug/l
RT: 10.441 min Scan# 14
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 43 Resp: 87724

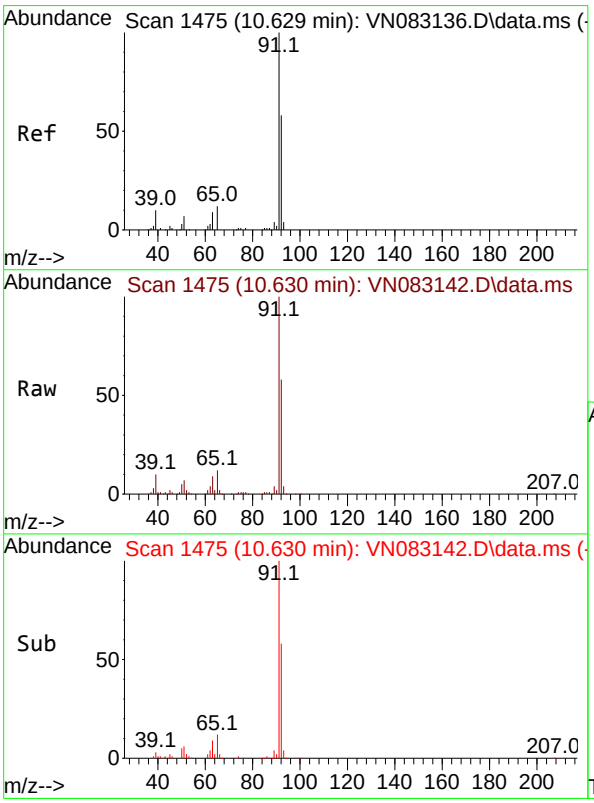
Ion	Ratio	Lower	Upper
43	100		
58	39.0	28.2	42.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

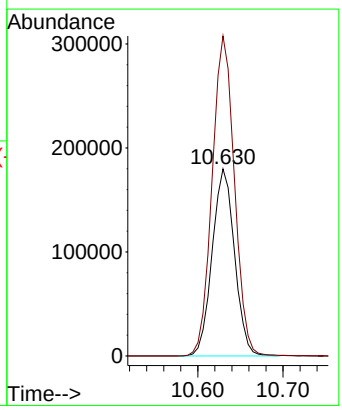
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

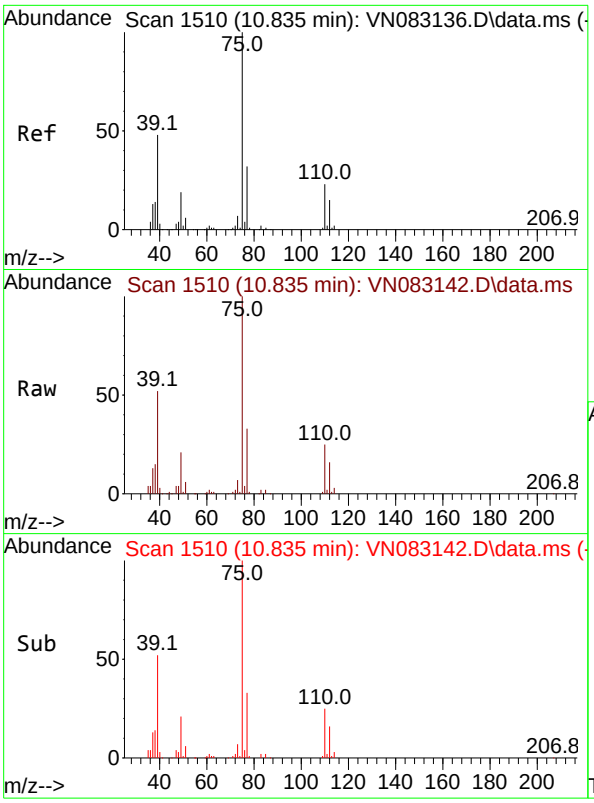


#52
Toluene
Concen: 48.520 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 92 Resp: 327682

Ion	Ratio	Lower	Upper
92	100		
91	170.9	139.4	209.0

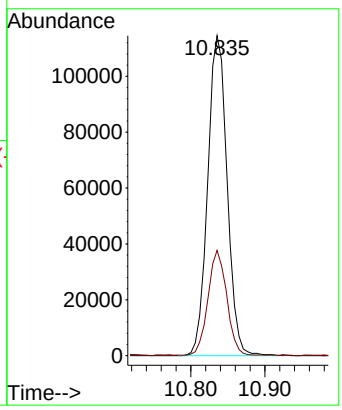




#53
t-1,3-Dichloropropene
Concen: 49.776 ug/l
RT: 10.835 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 75 Resp: 20849

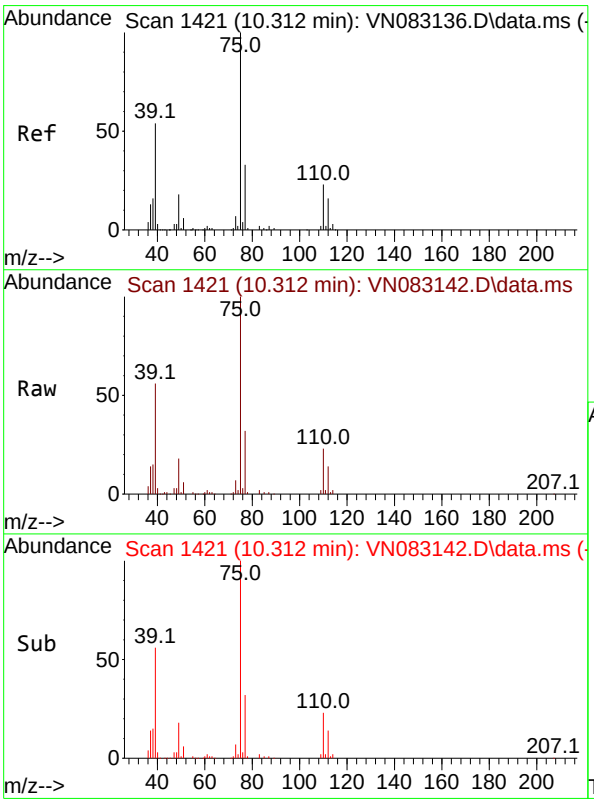
Ion	Ratio	Lower	Upper
75	100		
77	32.8	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

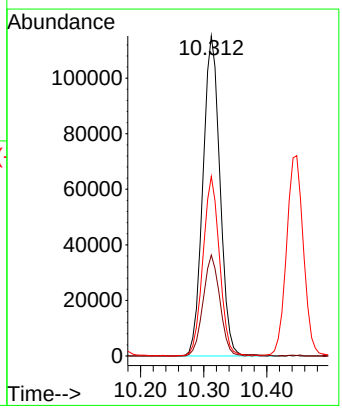
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

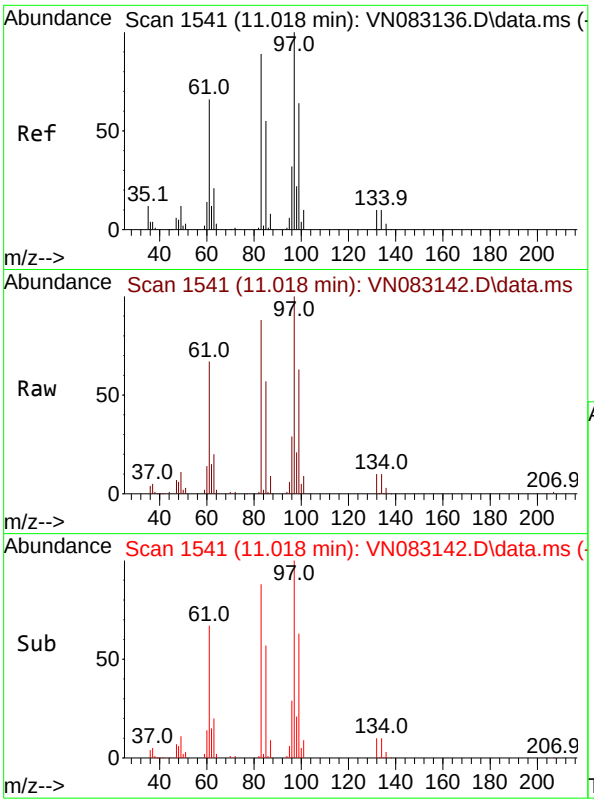


#54
cis-1,3-Dichloropropene
Concen: 48.487 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

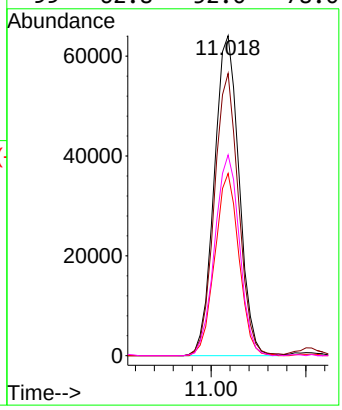




#55
1,1,2-Trichloroethane
Concen: 48.351 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 97 Resp: 11702

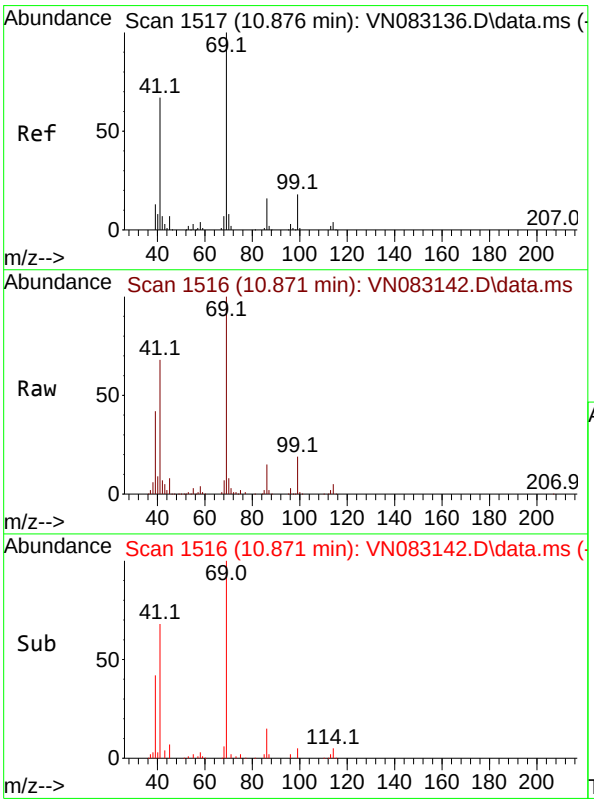
Ion	Ratio	Lower	Upper
97	100		
83	88.2	71.4	107.0
85	57.0	45.8	68.6
99	62.8	52.0	78.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

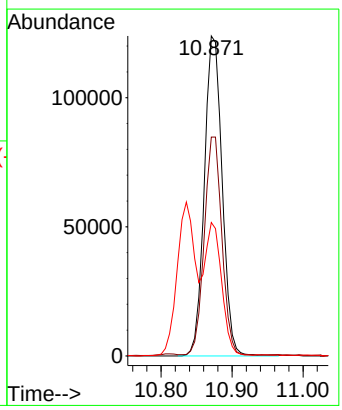
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

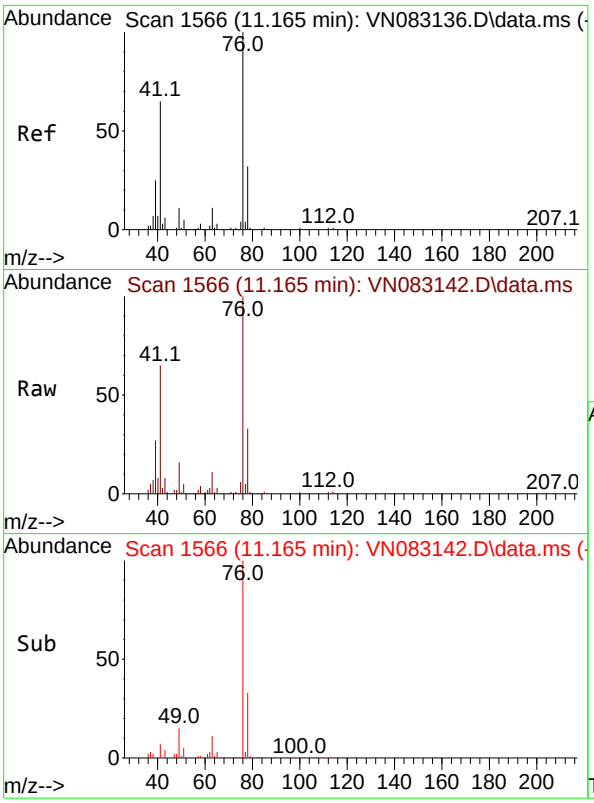


#56
Ethyl methacrylate
Concen: 47.395 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

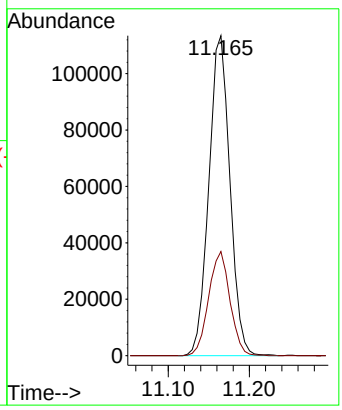




#57
1,3-Dichloropropane
Concen: 47.391 ug/l
RT: 11.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 76 Resp: 20444

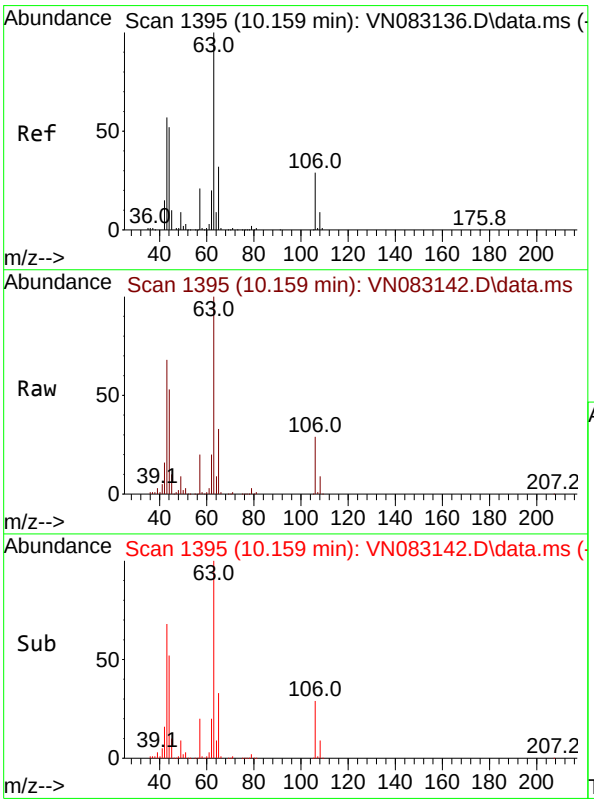
Ion	Ratio	Lower	Upper
76	100		
78	32.9	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

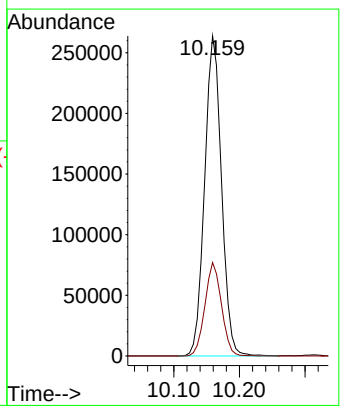
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

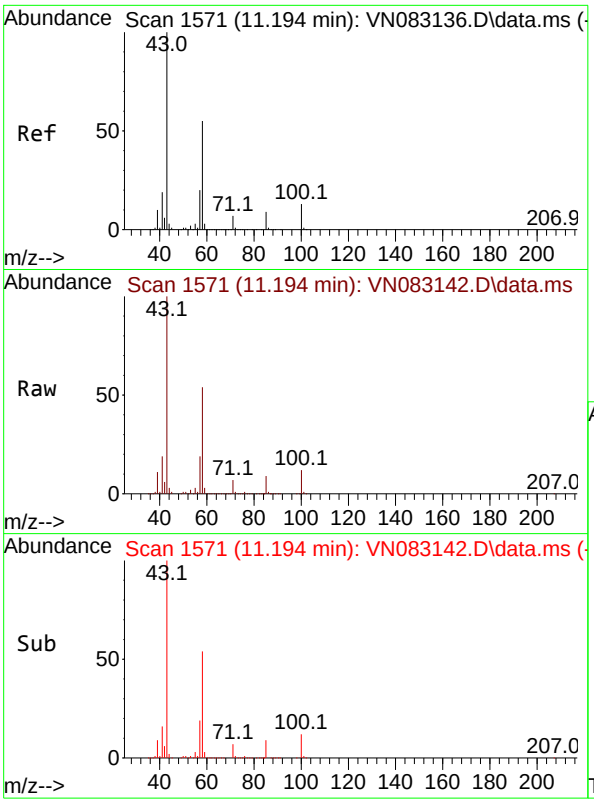


#58
2-Chloroethyl Vinyl ether
Concen: 244.918 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

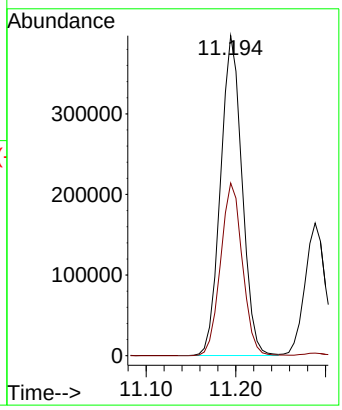
Tgt Ion: 43 Resp: 66103

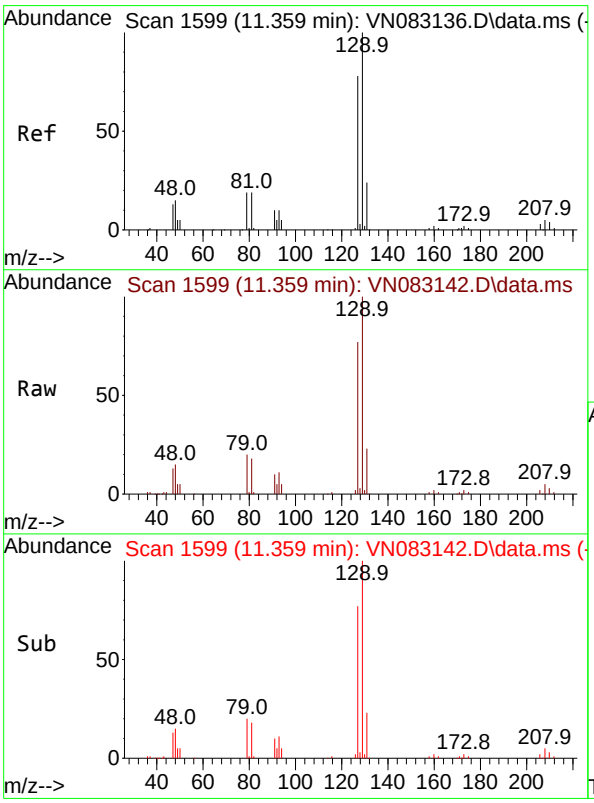
Ion	Ratio	Lower	Upper
43	100		
58	54.6	24.6	73.8

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

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

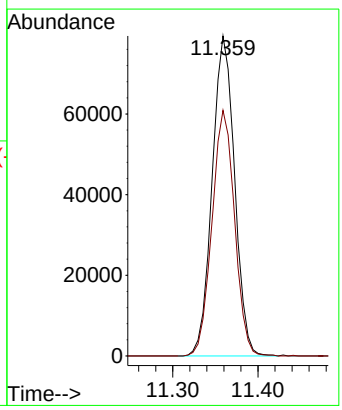


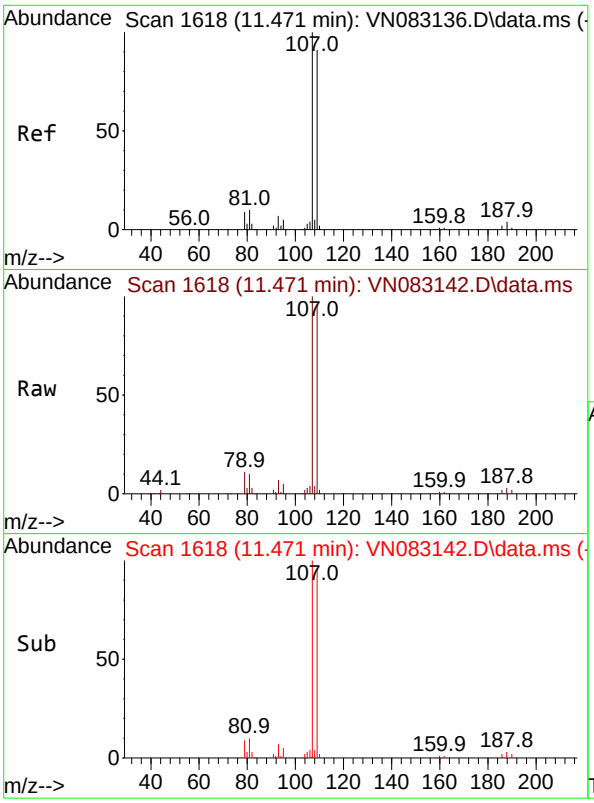


#60
Dibromochloromethane
Concen: 49.513 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

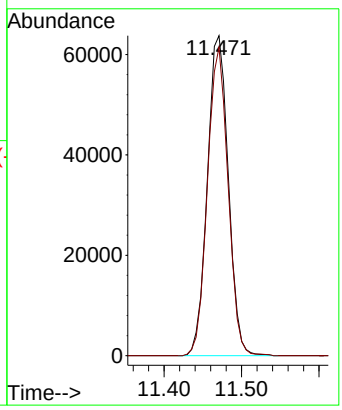
Tgt Ion:107 Resp: 11983

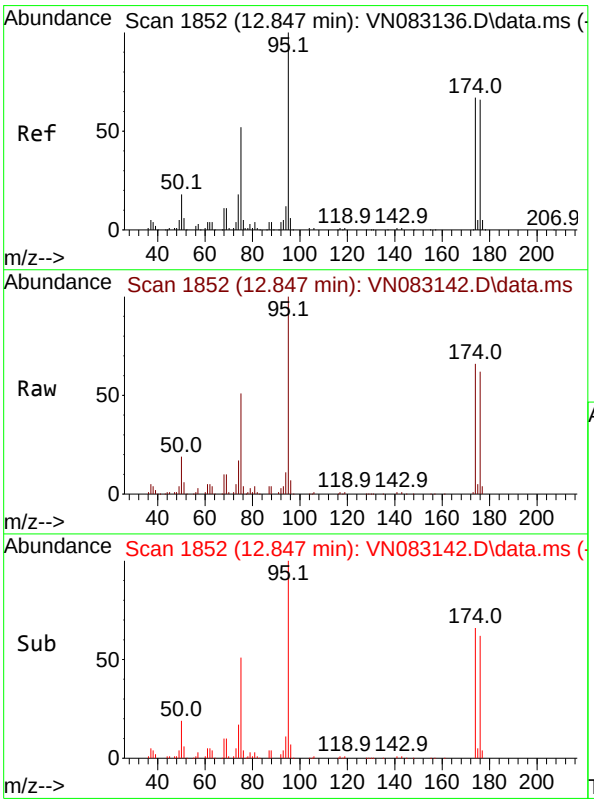
Ion	Ratio	Lower	Upper
107	100		
109	94.5	73.7	110.5

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

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

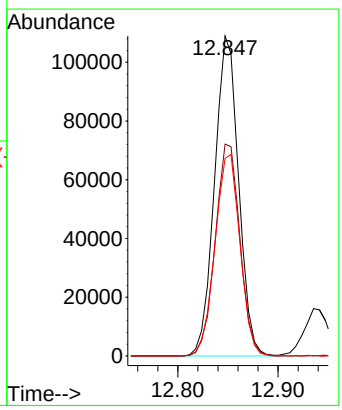


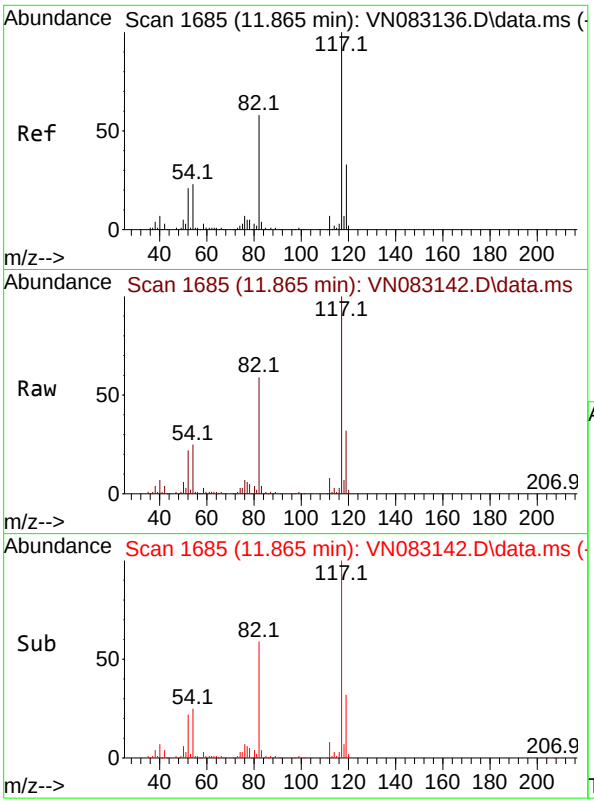


#62
4-Bromofluorobenzene
Concen: 52.574 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

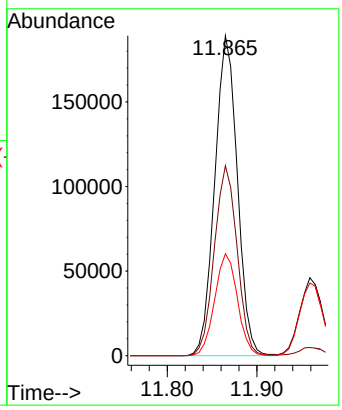
Tgt Ion:117 Resp: 33095

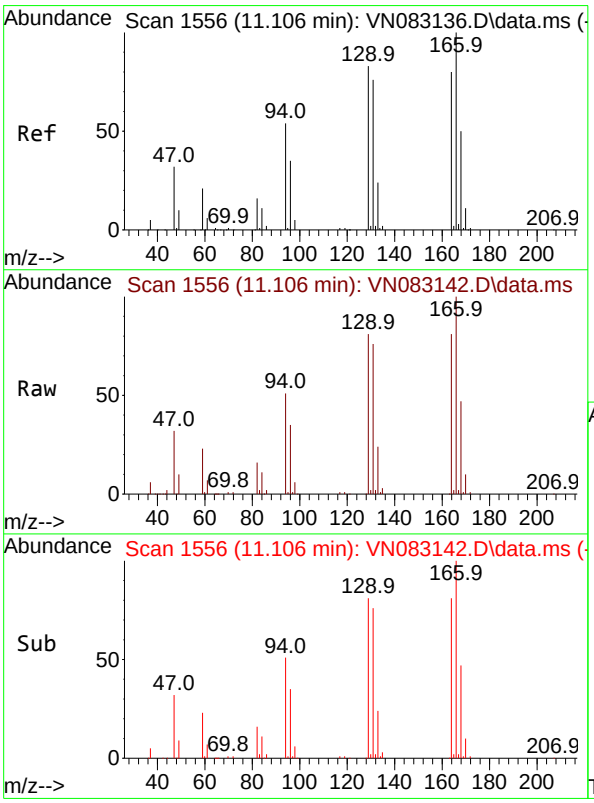
Ion	Ratio	Lower	Upper
117	100		
82	59.4	47.5	71.3
119	31.9	25.6	38.4

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

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

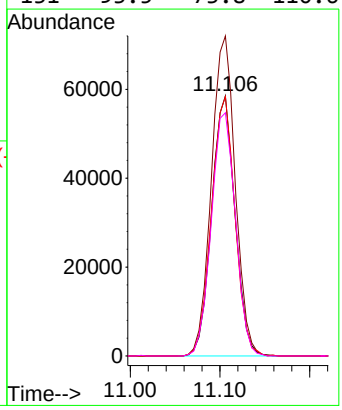


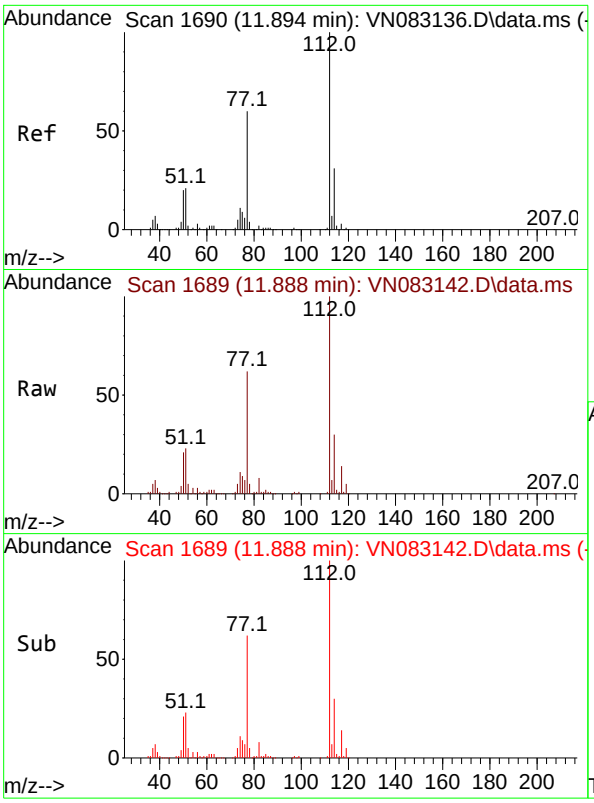


#64
Tetrachloroethene
Concen: 48.175 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

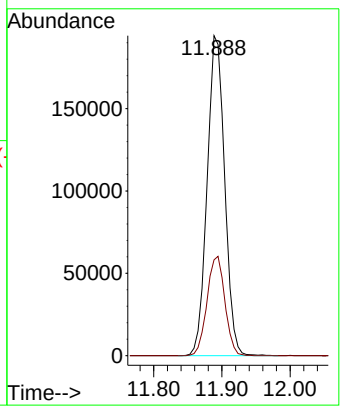




#65
Chlorobenzene
Concen: 47.522 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:112 Resp: 34756

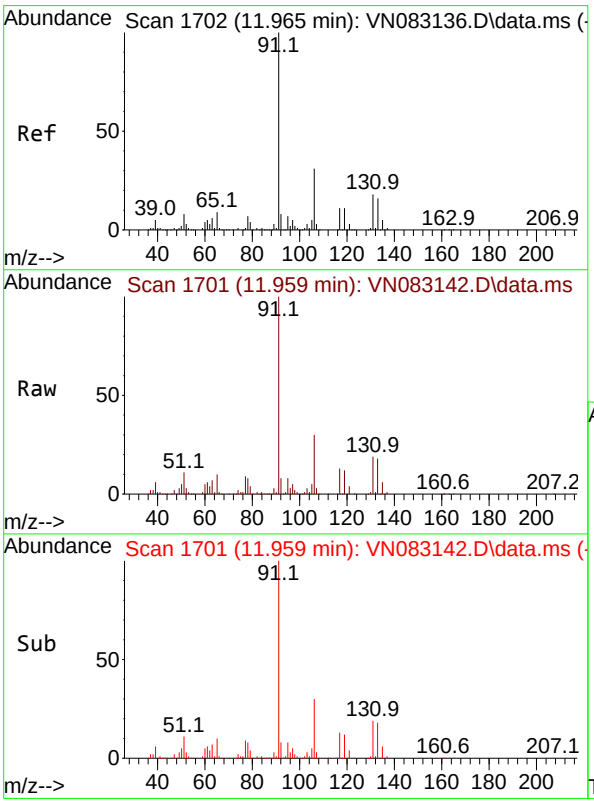
Ion	Ratio	Lower	Upper
112	100		
114	29.9	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

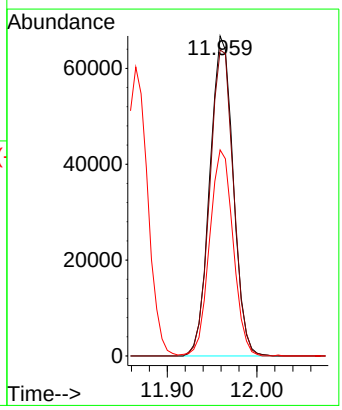
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

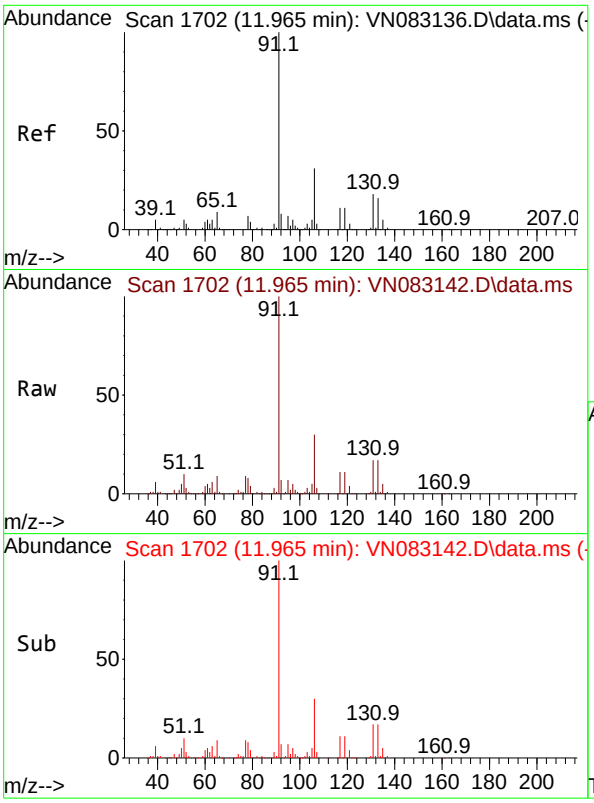


#66
1,1,1,2-Tetrachloroethane
Concen: 46.843 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

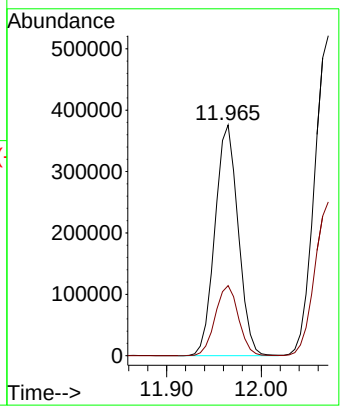
Tgt Ion: 91 Resp: 64082

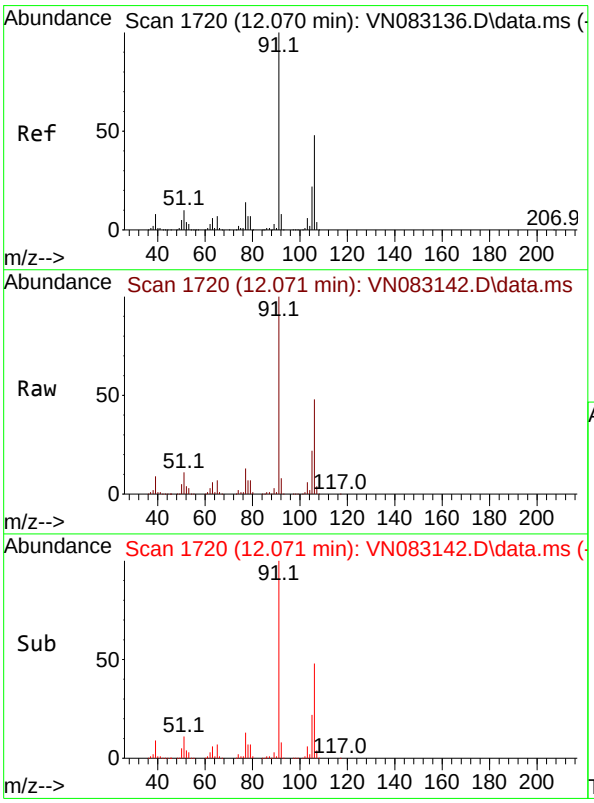
Ion	Ratio	Lower	Upper
91	100		
106	30.4	24.0	36.0

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

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

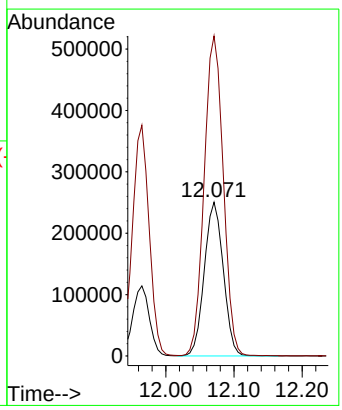


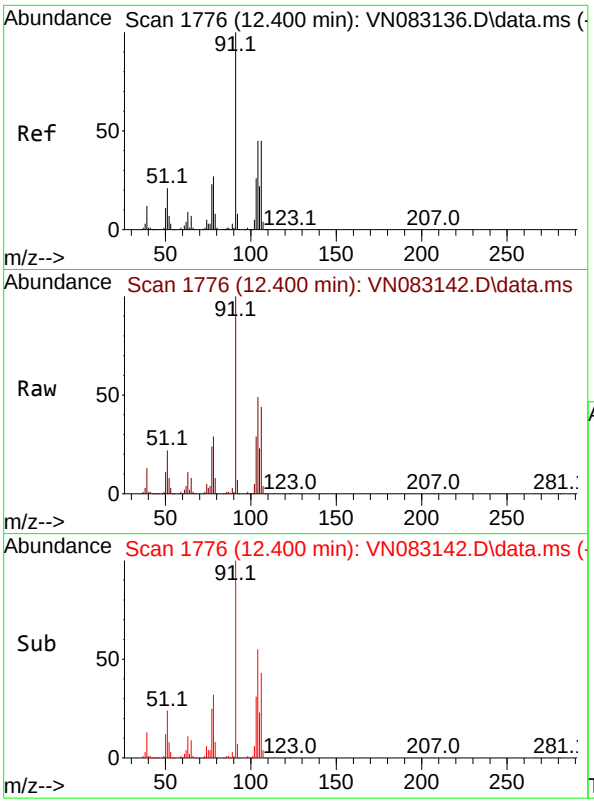


#68
m/p-Xylenes
Concen: 96.434 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

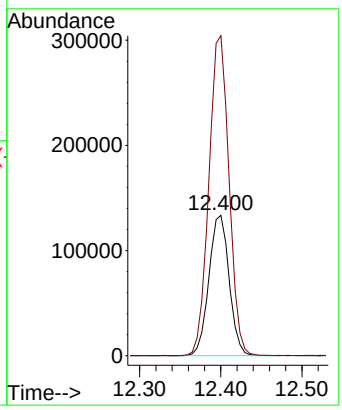
Tgt Ion:106 Resp: 23129

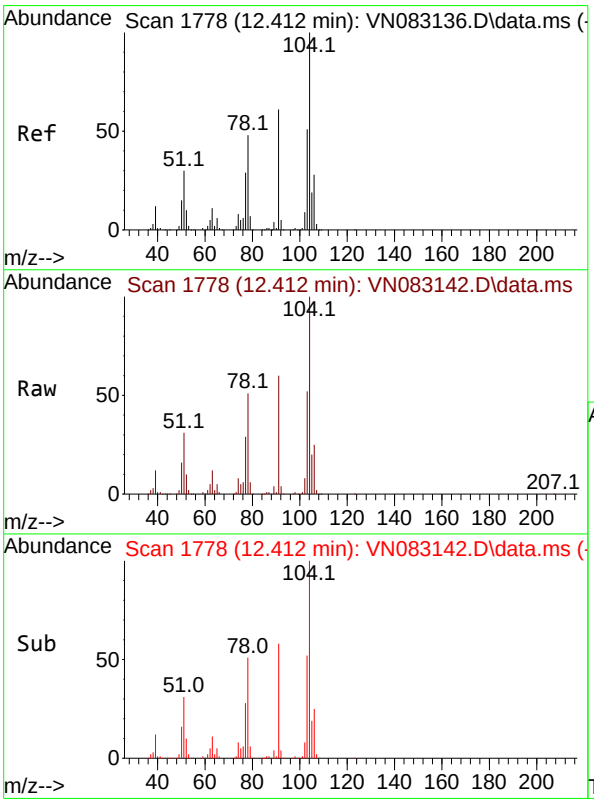
Ion	Ratio	Lower	Upper
106	100		
91	227.0	111.3	333.9

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

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

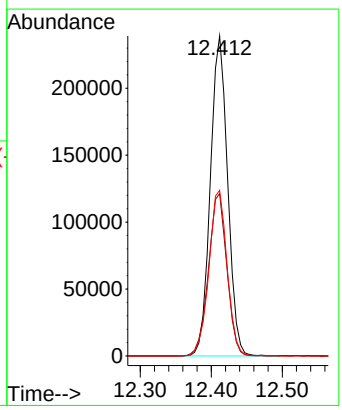


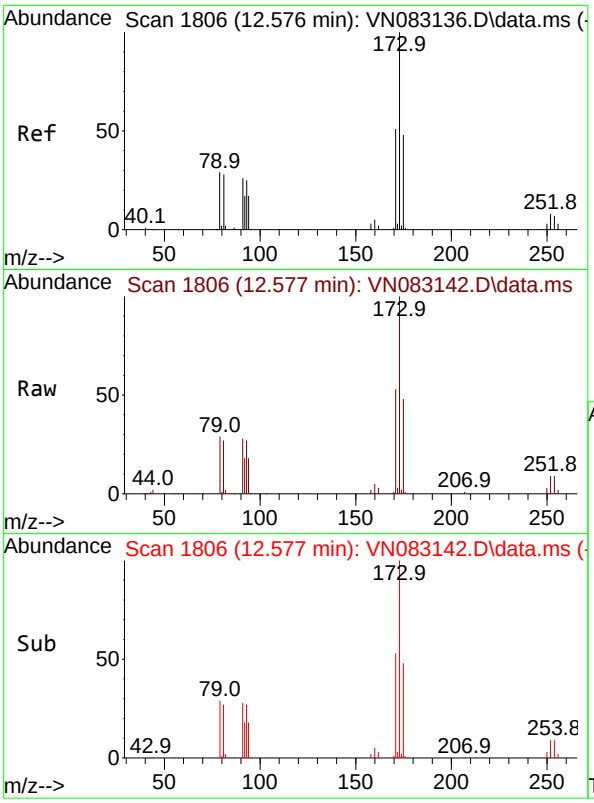


#70
Styrene
Concen: 48.487 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

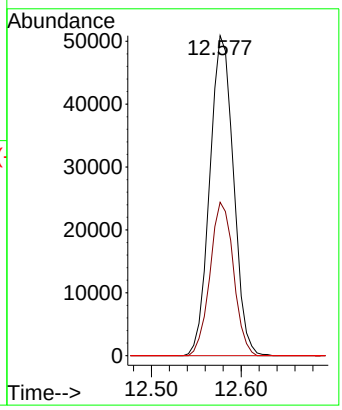




#71
Bromoform
Concen: 47.797 ug/l
RT: 12.577 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:173 Resp: 9339

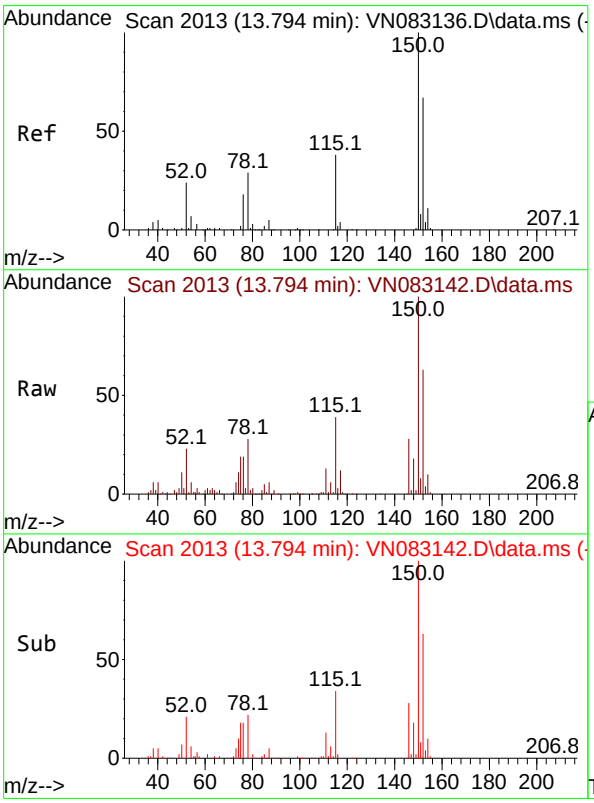
Ion	Ratio	Lower	Upper
173	100		
175	47.4	24.0	72.0
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

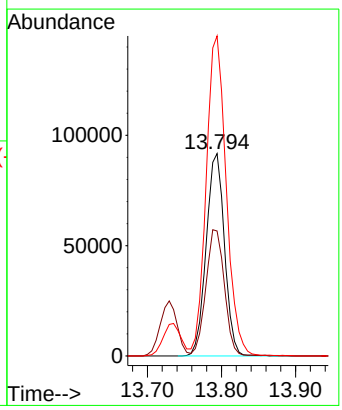
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

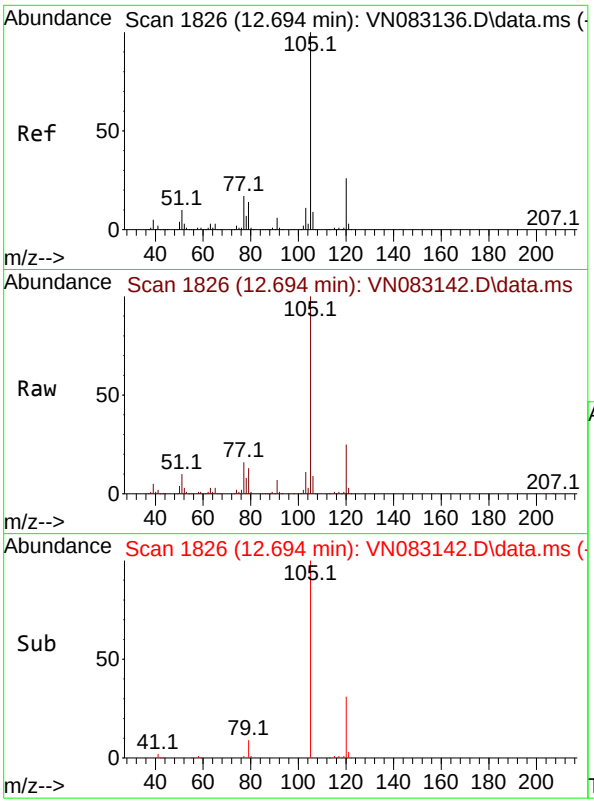


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

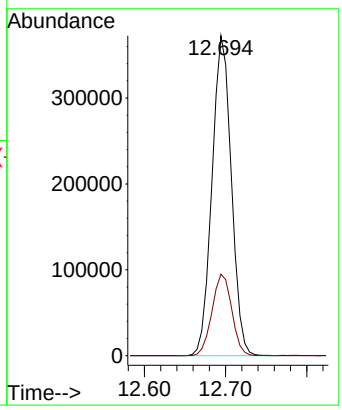
Tgt Ion:105 Resp: 61654

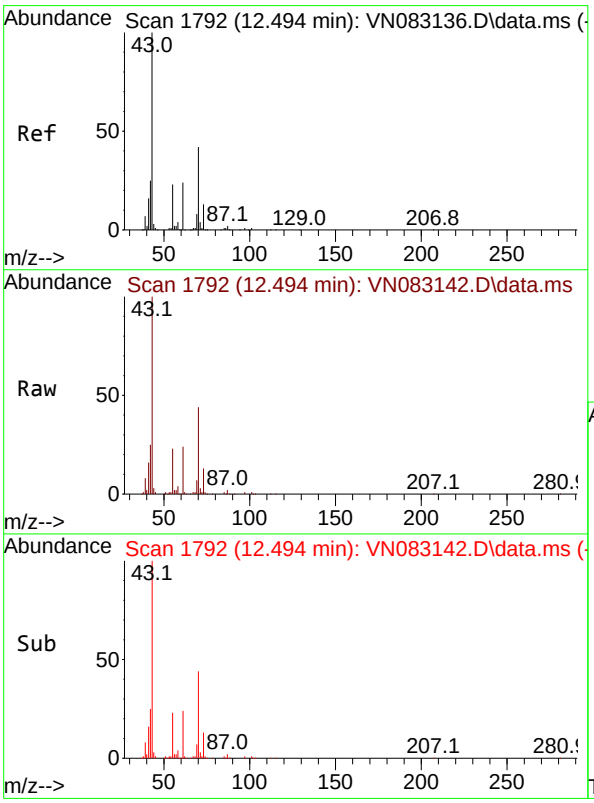
Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.9	38.6

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

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

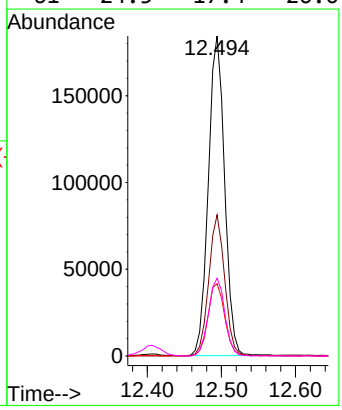


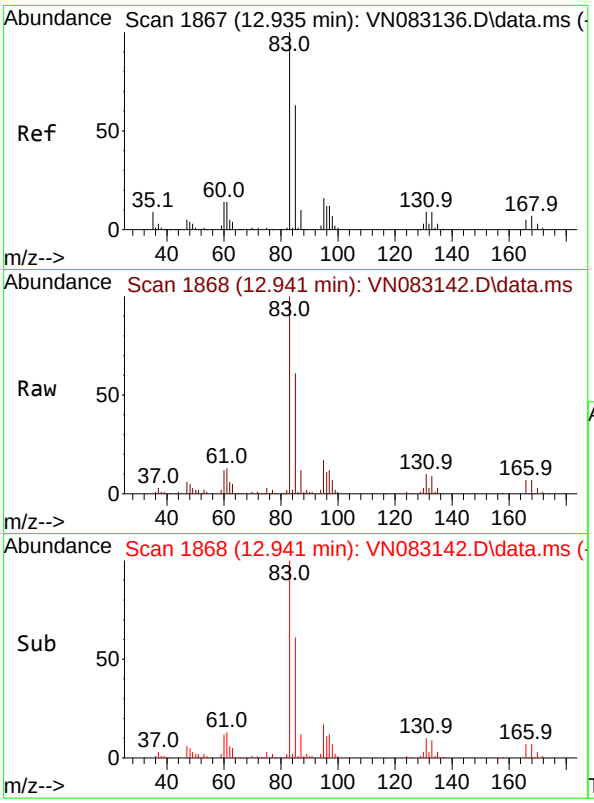


#74
N-amyl acetate
Concen: 43.748 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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# 1
Delta R.T. 0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

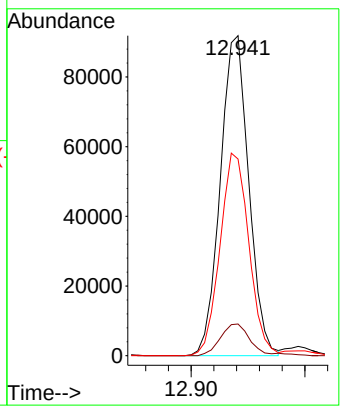
Tgt Ion: 83 Resp: 15996

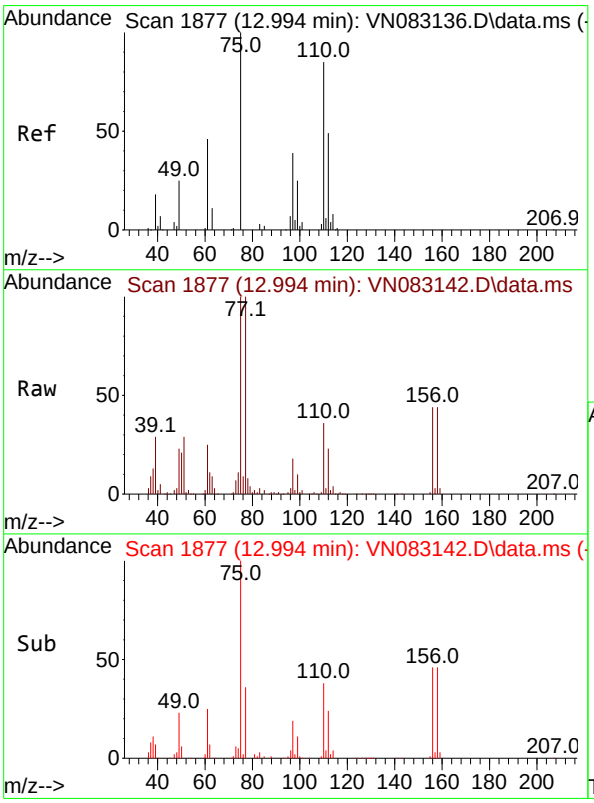
Ion	Ratio	Lower	Upper
83	100		
131	10.6	5.0	14.9
85	64.5	31.9	95.7

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

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

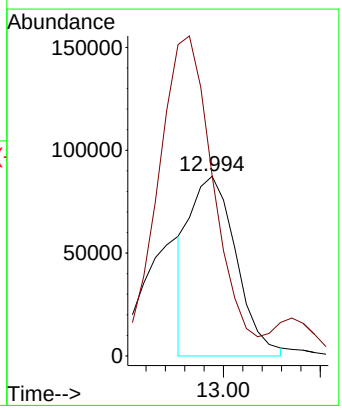


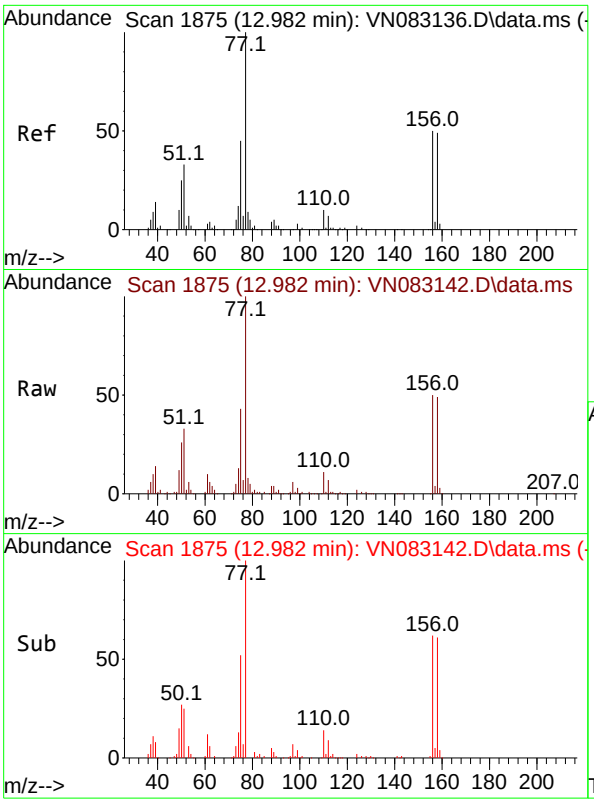


#76
1,2,3-Trichloropropane
Concen: 42.119 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

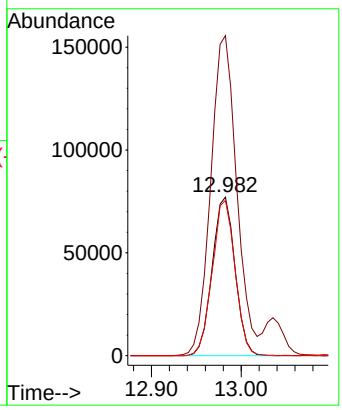
Tgt Ion:156 Resp: 13624

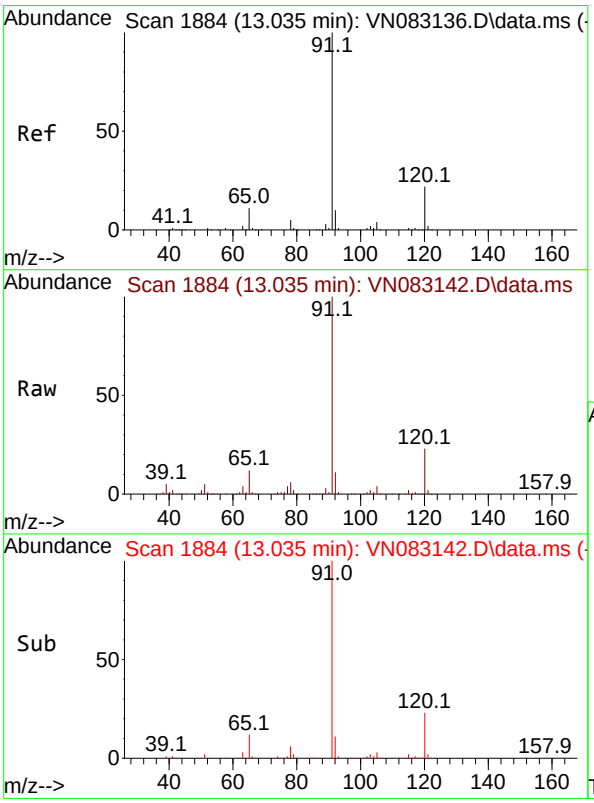
Ion	Ratio	Lower	Upper
156	100		
77	229.1	111.3	333.8
158	98.0	48.3	144.9

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

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

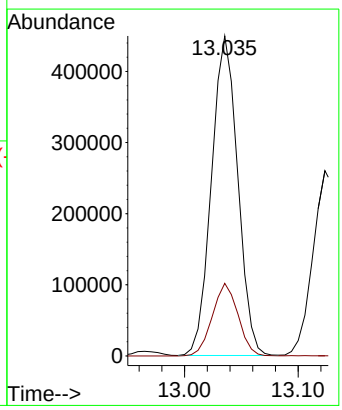


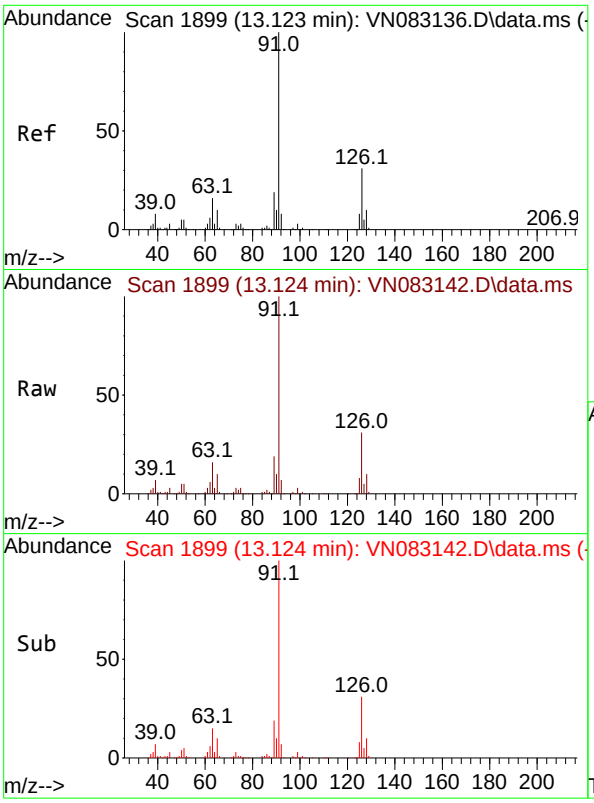


#78
n-propylbenzene
Concen: 47.678 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

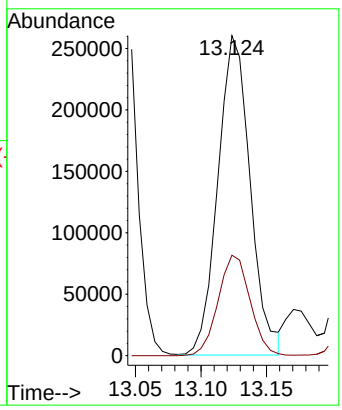
Tgt Ion: 91 Resp: 44535

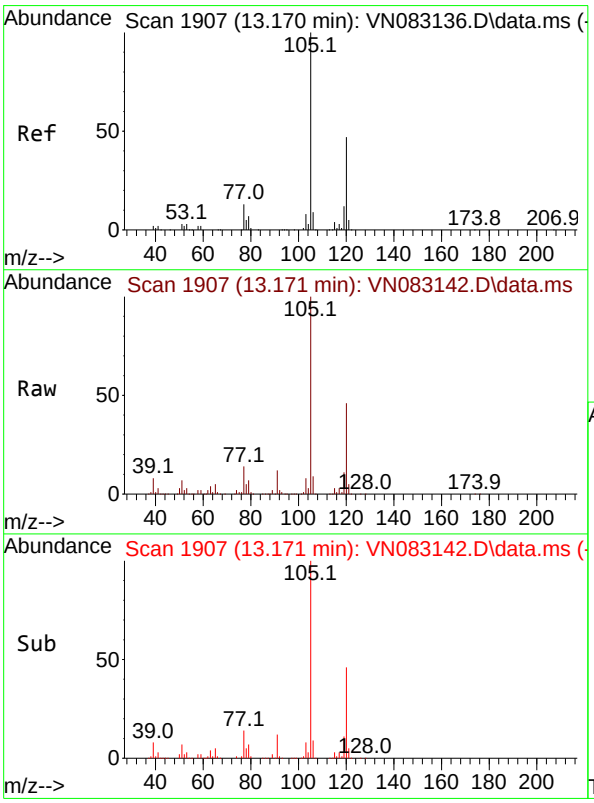
Ion	Ratio	Lower	Upper
91	100		
126	31.1	16.2	48.6

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

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

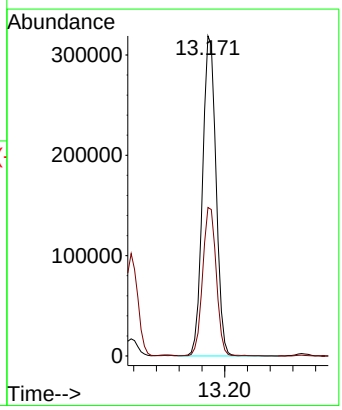


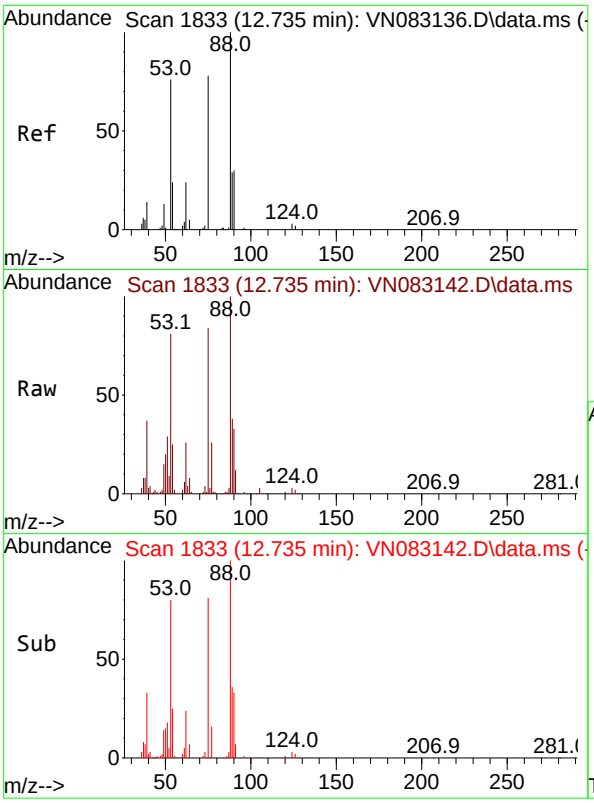


#80
1,3,5-Trimethylbenzene
Concen: 47.673 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:105 Resp: 524769

Ion	Ratio	Lower	Upper
105	100		
120	46.9	24.3	72.8

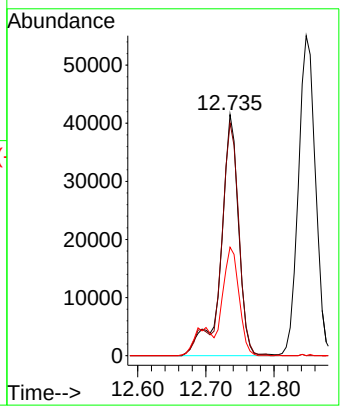




#81
trans-1,4-Dichloro-2-butene
Concen: 47.070 ug/l
RT: 12.735 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 75 Resp: 7465

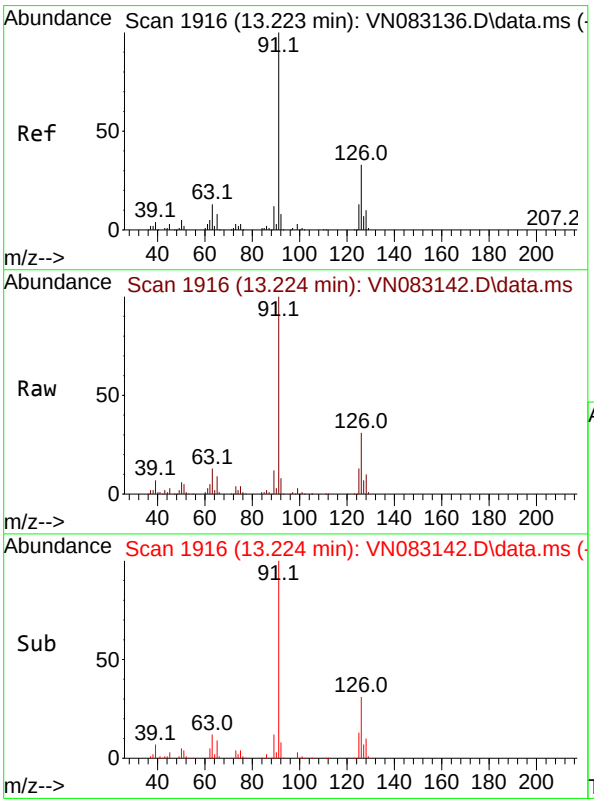
Ion	Ratio	Lower	Upper
75	100		
53	89.6	88.4	132.6
89	41.1	36.3	54.5



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

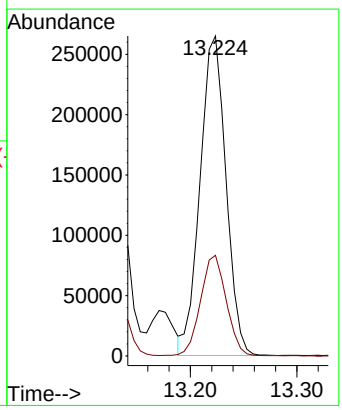
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

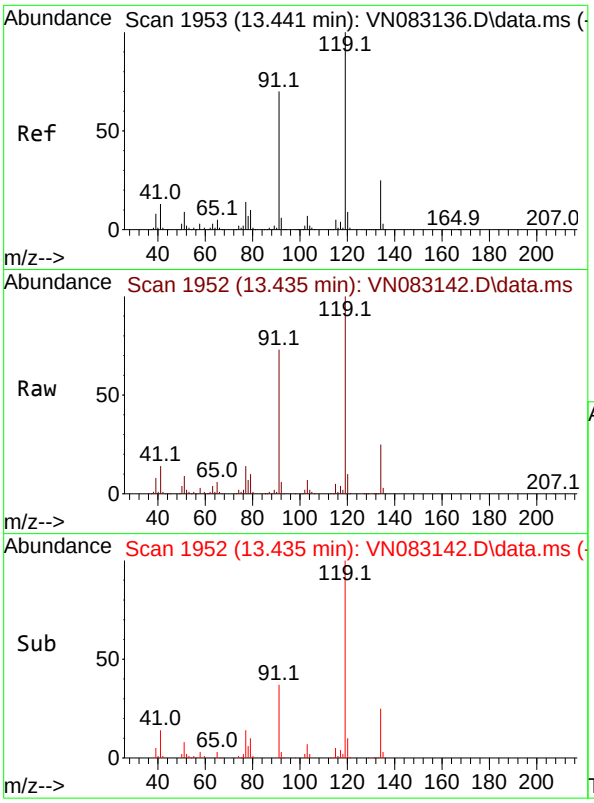


#82
4-Chlorotoluene
Concen: 46.512 ug/l
RT: 13.224 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 91 Resp: 447810

Ion	Ratio	Lower	Upper
91	100		
126	31.2	16.2	48.6

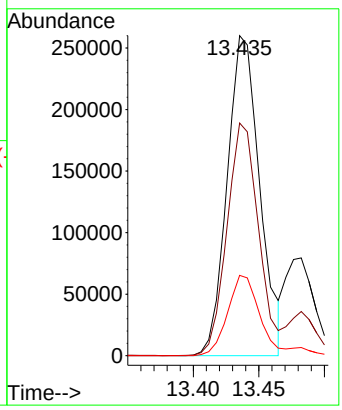




#83
tert-Butylbenzene
Concen: 46.173 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:119 Resp: 45010

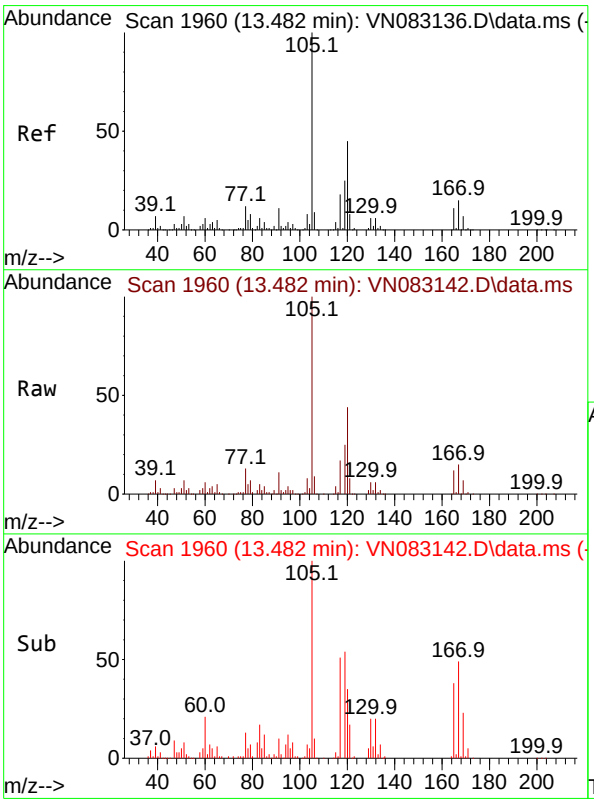
Ion	Ratio	Lower	Upper
119	100		
91	70.4	35.0	105.1
134	24.4	13.3	39.8



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

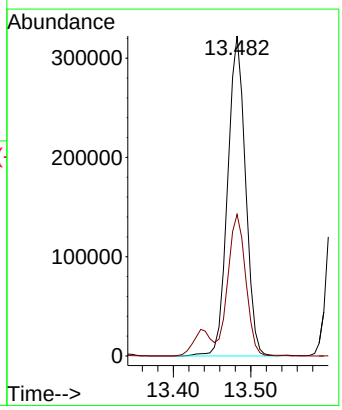
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

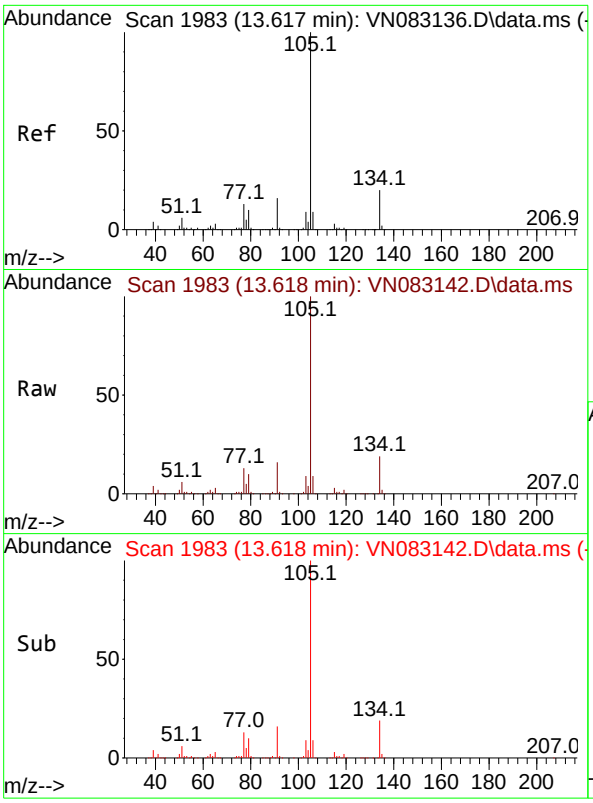


#84
1,2,4-Trimethylbenzene
Concen: 46.493 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

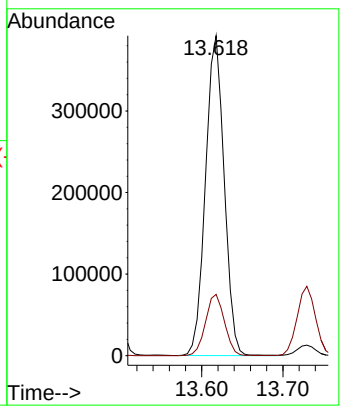
Tgt Ion:105 Resp: 62540

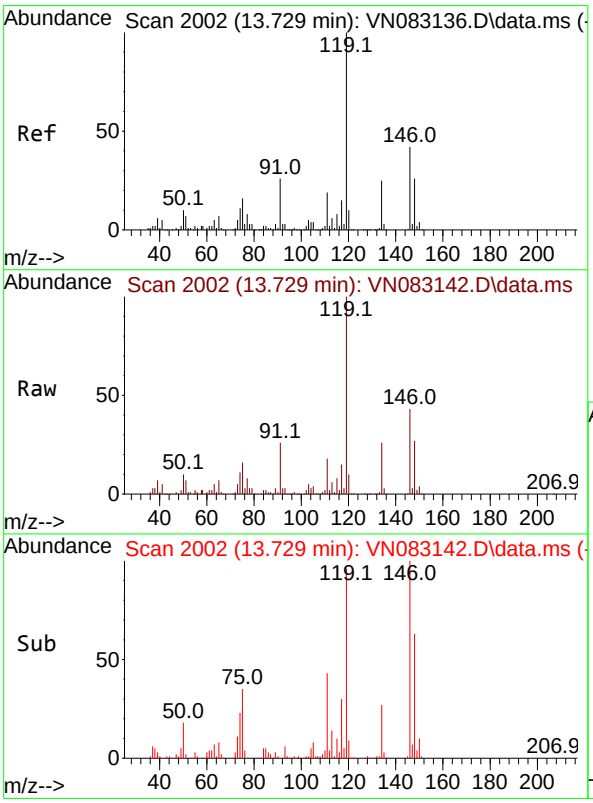
Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.8	29.3

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

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

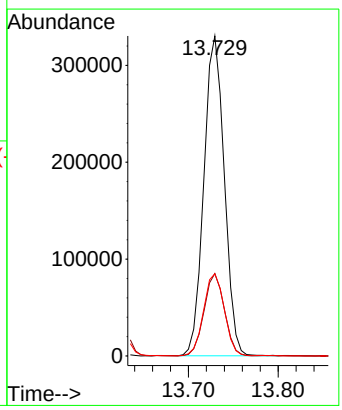


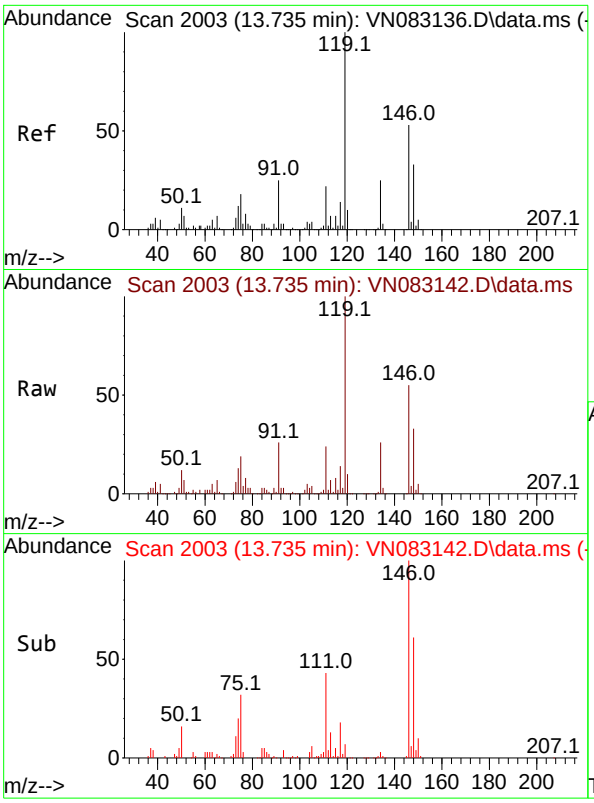


#86
p-Isopropyltoluene
Concen: 47.566 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

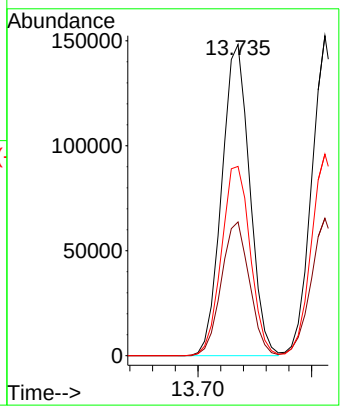




#87
1,3-Dichlorobenzene
Concen: 45.959 ug/l
RT: 13.735 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:146 Resp: 25257

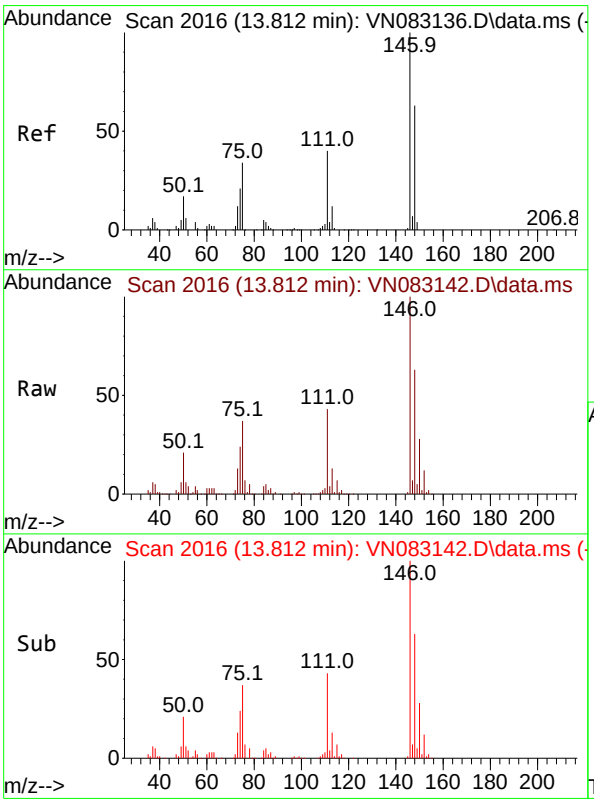
Ion	Ratio	Lower	Upper
146	100		
111	43.4	20.6	61.9
148	62.8	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

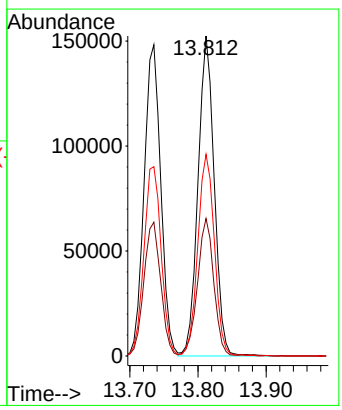
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

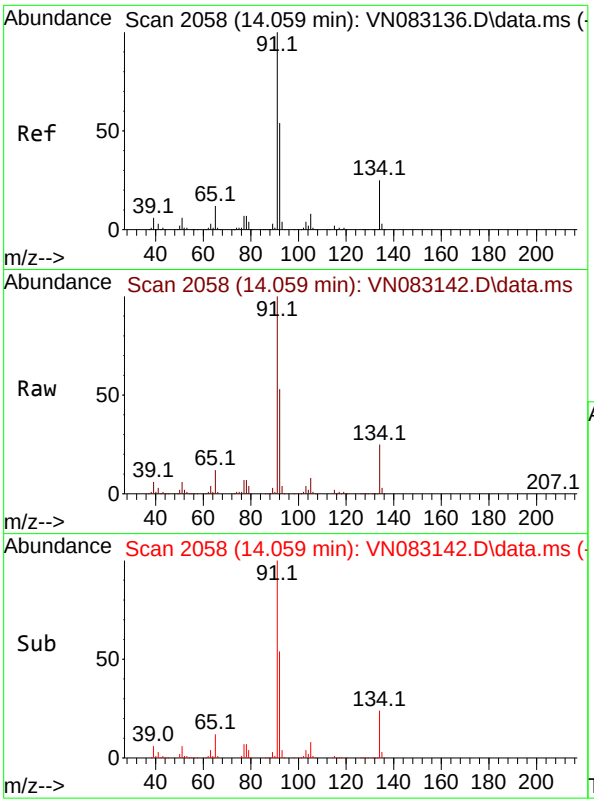


#88
1,4-Dichlorobenzene
Concen: 45.499 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

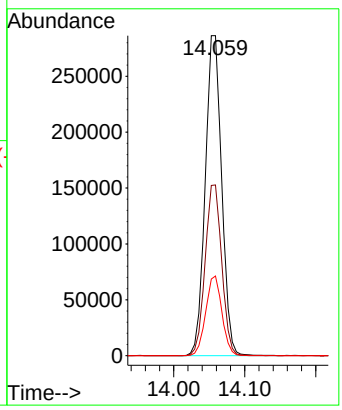




#89
n-Butylbenzene
Concen: 48.489 ug/l
RT: 14.059 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 91 Resp: 46144

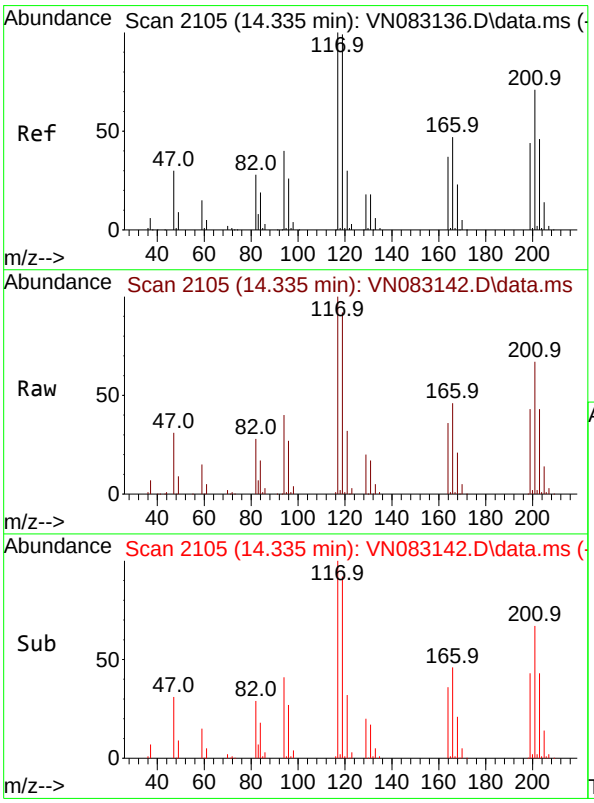
Ion	Ratio	Lower	Upper
91	100		
92	53.9	26.1	78.3
134	24.5	12.1	36.3



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

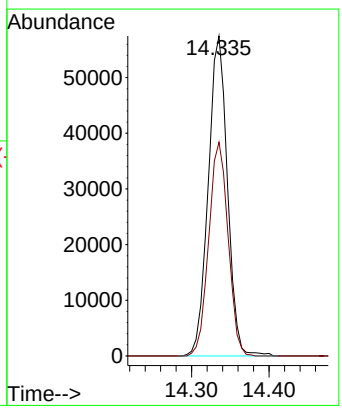
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

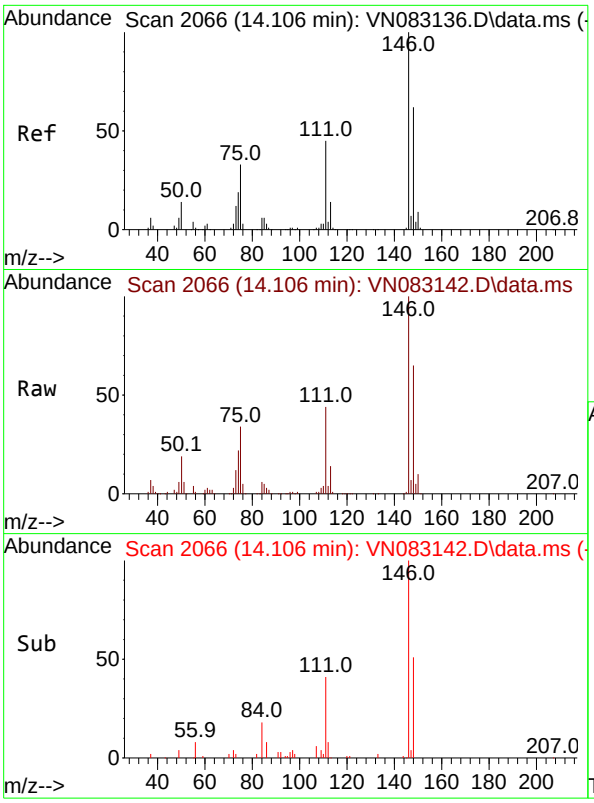


#90
Hexachloroethane
Concen: 46.741 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:117 Resp: 99176

Ion	Ratio	Lower	Upper
117	100		
201	67.3	35.8	107.3

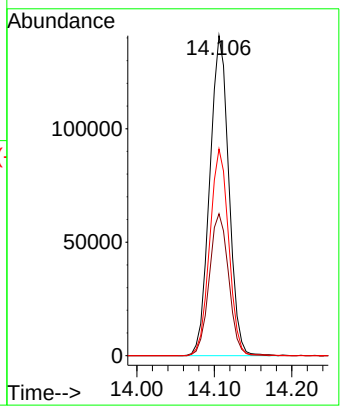




#91
1,2-Dichlorobenzene
Concen: 45.255 ug/l
RT: 14.106 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:146 Resp: 24067

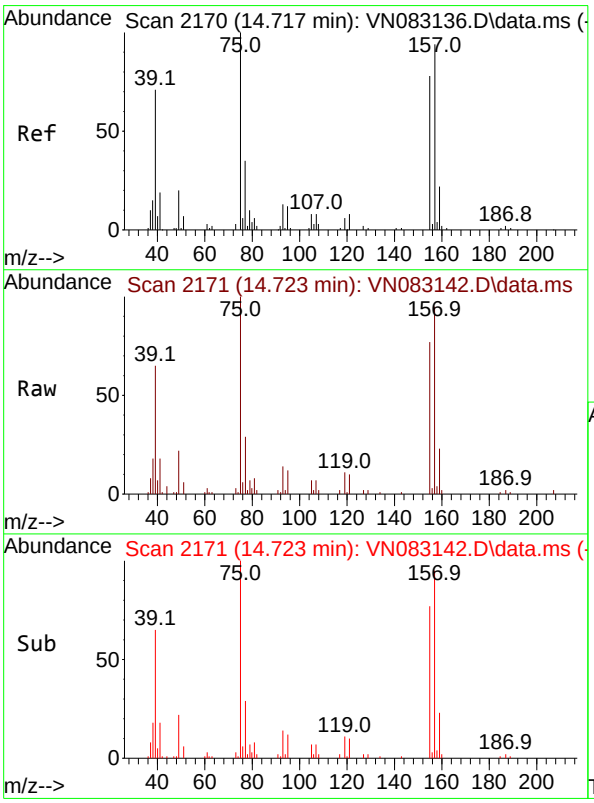
Ion	Ratio	Lower	Upper
146	100		
111	45.2	21.4	64.2
148	64.4	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

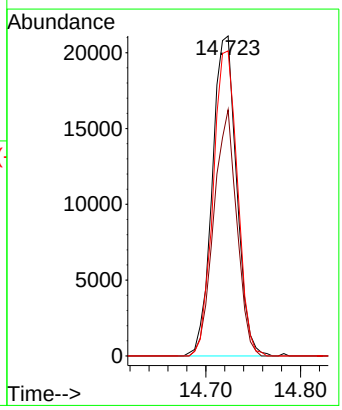
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

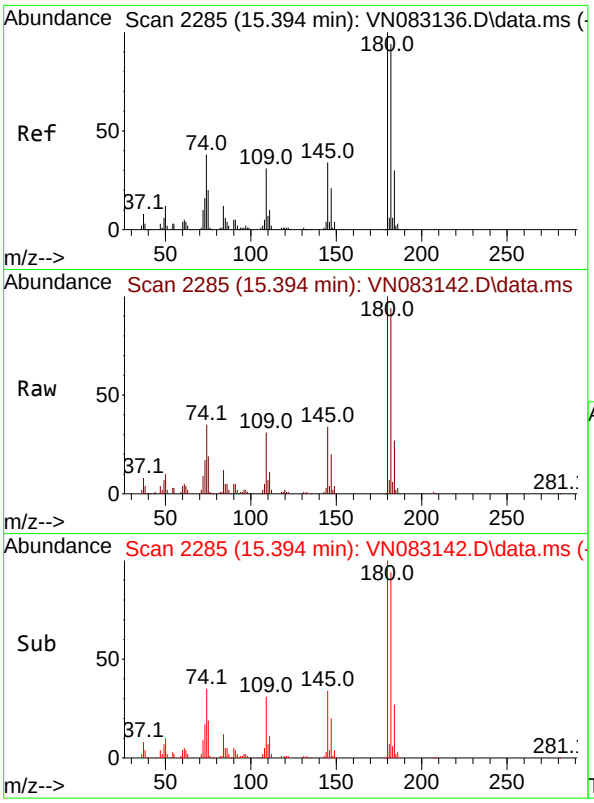


#92
1,2-Dibromo-3-Chloropropane
Concen: 41.753 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

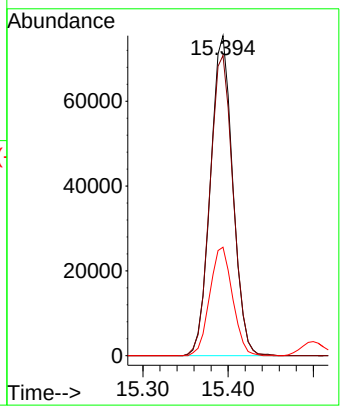




#93
1,2,4-Trichlorobenzene
Concen: 46.054 ug/l
RT: 15.394 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:180 Resp: 13721

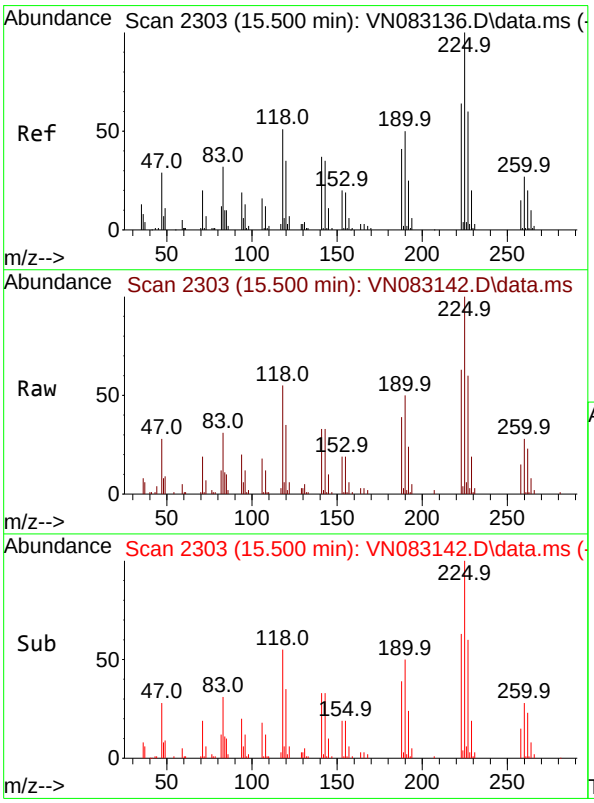
Ion	Ratio	Lower	Upper
180	100		
182	97.2	47.3	141.8
145	34.6	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

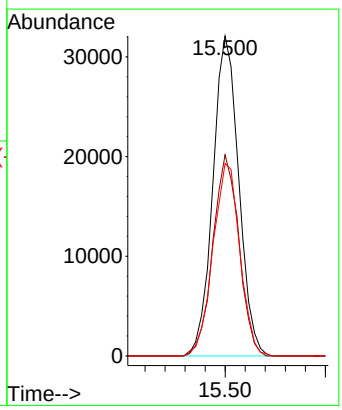
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

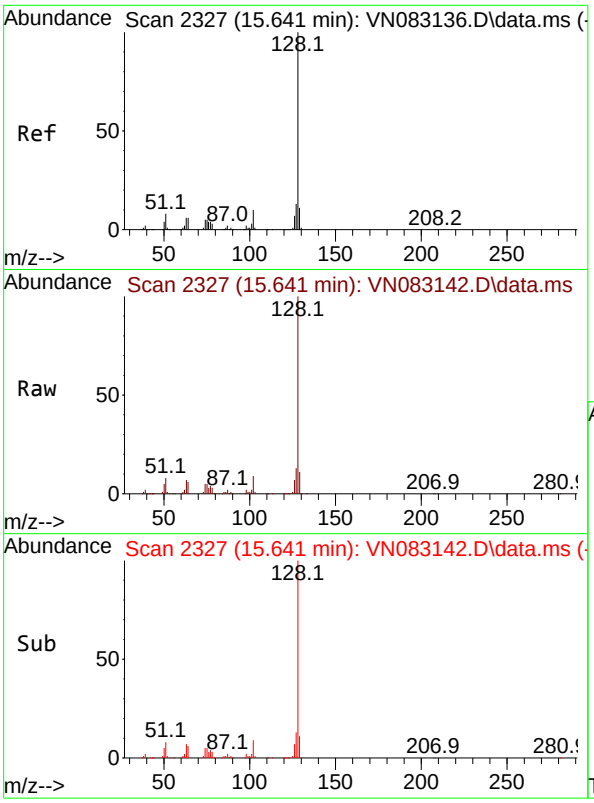


#94
Hexachlorobutadiene
Concen: 43.315 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

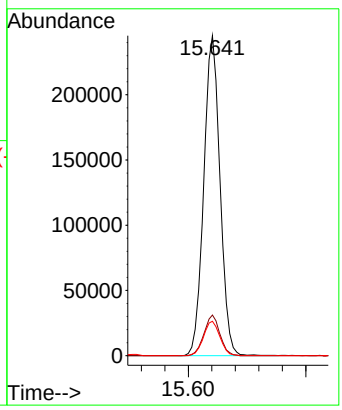




#95
Naphthalene
Concen: 44.692 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:128 Resp: 47167

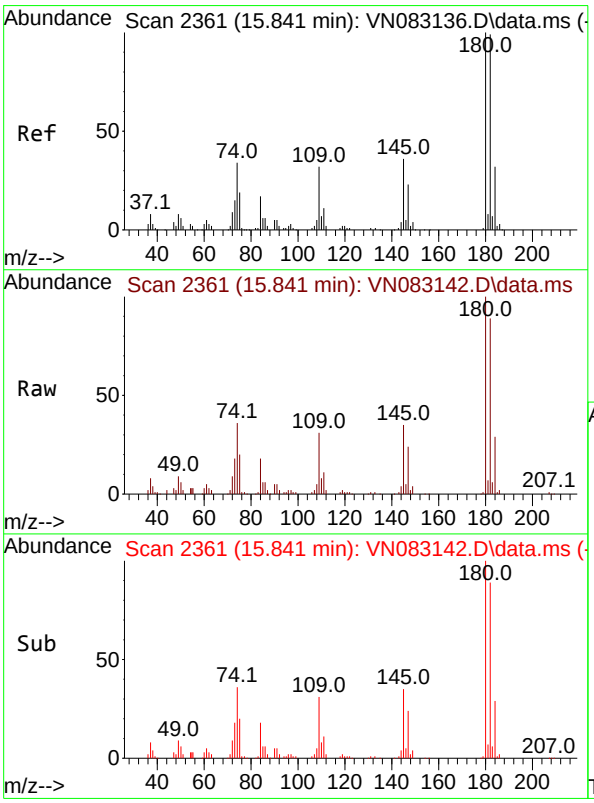
Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.6	16.0
129	10.8	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

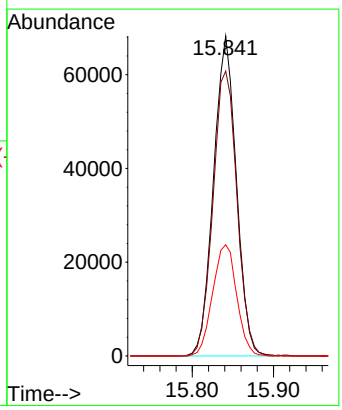
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#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



Evaluate Continuing Calibration Report

ICAL Form

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

ICAL Form

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)
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

ICAL Form

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

Evaluate Continuing Calibration Report

ICAL Form

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

ICAL Form

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)
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

ICAL Form

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

Raw Data

Alliance TECHNICAL GROUP

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3457 SAS No.: P3457 SDG No.: P3457

Instrument ID: MSVOA_X Calibration Date(s): 08/06/2024 08/06/2024

Heated Purge: (Y/N) N Calibration Time(s): 18:18 20:15

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX042877.D RRF005 = VX042878.D RRF020 = VX042879.D
RRF050 = VX042880.D RRF100 = VX042881.D RRF150 = VX042882.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.521	0.492	0.550	0.552	0.571	0.547	0.539	5.2
Chloromethane	0.675	0.573	0.601	0.551	0.574	0.549	0.587	8
Vinyl Chloride	0.523	0.562	0.582	0.551	0.567	0.557	0.557	3.5
Bromomethane		0.351	0.323	0.316	0.350	0.346	0.337	4.8
Chloroethane	0.382	0.331	0.321	0.321	0.284	0.266	0.317	12.7
1,1,2-Trichlorotrifluoroethane	0.571	0.527	0.578	0.533	0.535	0.525	0.545	4.3
1,1-Dichloroethene	0.559	0.561	0.575	0.535	0.548	0.529	0.551	3.1
Acetone	0.353	0.284	0.316	0.282	0.279	0.272	0.298	10.5
Carbon Disulfide	1.453	1.225	1.325	1.297	1.381	1.366	1.341	5.8
Methyl tert-butyl Ether	1.847	1.847	1.921	1.834	1.855	1.825	1.855	1.9
Methylene Chloride	1.053	0.702	0.677	0.596	0.609	0.593	0.705	25
trans-1,2-Dichloroethene	0.549	0.547	0.576	0.552	0.557	0.545	0.554	2.1
1,1-Dichloroethane	1.079	1.071	1.110	1.042	1.034	0.976	1.052	4.4
Cyclohexane		0.817	0.896	0.858	0.869	0.855	0.859	3.3
2-Butanone	0.449	0.462	0.510	0.469	0.466	0.449	0.468	4.8
Carbon Tetrachloride	0.532	0.465	0.500	0.492	0.505	0.508	0.500	4.4
cis-1,2-Dichloroethene	0.585	0.666	0.708	0.663	0.668	0.655	0.658	6.1
Chloroform	1.114	1.083	1.166	1.091	1.092	1.062	1.101	3.2
1,1,1-Trichloroethane	0.918	0.937	1.012	0.971	0.995	0.984	0.970	3.7
Methylcyclohexane	0.459	0.496	0.555	0.549	0.556	0.546	0.527	7.6
Benzene	1.318	1.391	1.456	1.384	1.361	1.344	1.376	3.5
1,2-Dichloroethane	0.500	0.505	0.524	0.497	0.492	0.484	0.500	2.7
Trichloroethene	0.348	0.347	0.359	0.338	0.342	0.340	0.346	2.2
Bromodichloromethane	0.422	0.455	0.504	0.487	0.497	0.492	0.476	6.6
Toluene	0.732	0.836	0.915	0.849	0.851	0.824	0.834	7.1
1,1,2-Trichloroethane	0.312	0.339	0.364	0.336	0.346	0.338	0.339	5
Dibromochloromethane	0.332	0.341	0.391	0.372	0.401	0.399	0.373	8
Tetrachloroethene	0.354	0.335	0.368	0.348	0.343	0.337	0.348	3.5
Chlorobenzene	1.081	1.042	1.112	1.039	1.052	1.040	1.061	2.8
Ethyl Benzene	1.660	1.668	1.921	1.806	1.830	1.823	1.785	5.7

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

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3457 SAS No.: P3457 SDG No.: P3457

Instrument ID: MSVOA_X Calibration Date(s): 08/06/2024 08/06/2024

Heated Purge: (Y/N) N Calibration Time(s): 18:18 20:15

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX042877.D RRF005 = VX042878.D RRF020 = VX042879.D
RRF050 = VX042880.D RRF100 = VX042881.D RRF150 = VX042882.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
m/p-Xylenes	0.601	0.637	0.754	0.696	0.701	0.698	0.681	7.9
o-Xylene	0.662	0.639	0.727	0.687	0.694	0.686	0.683	4.3
Isopropylbenzene	3.448	3.709	3.932	3.673	3.523	3.404	3.615	5.4
1,4-Dichlorobenzene	1.850	1.728	1.769	1.635	1.622	1.630	1.706	5.4
1,2-Dichlorobenzene	1.598	1.714	1.775	1.657	1.637	1.619	1.666	4
1,2-Dichloroethane-d4		0.726	0.669	0.667	0.687	0.683	0.686	3.5
Dibromofluoromethane		0.333	0.315	0.323	0.336	0.329	0.327	2.6
Toluene-d8		1.195	1.151	1.136	1.170	1.151	1.161	2
4-Bromofluorobenzene		0.404	0.401	0.398	0.441	0.441	0.417	5.3

* 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.

Response Factor Report MSVOA_X

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X080724W.M
Title : SW846 8260
Last Update : Wed Aug 07 02:55:22 2024
Response Via : Initial Calibration

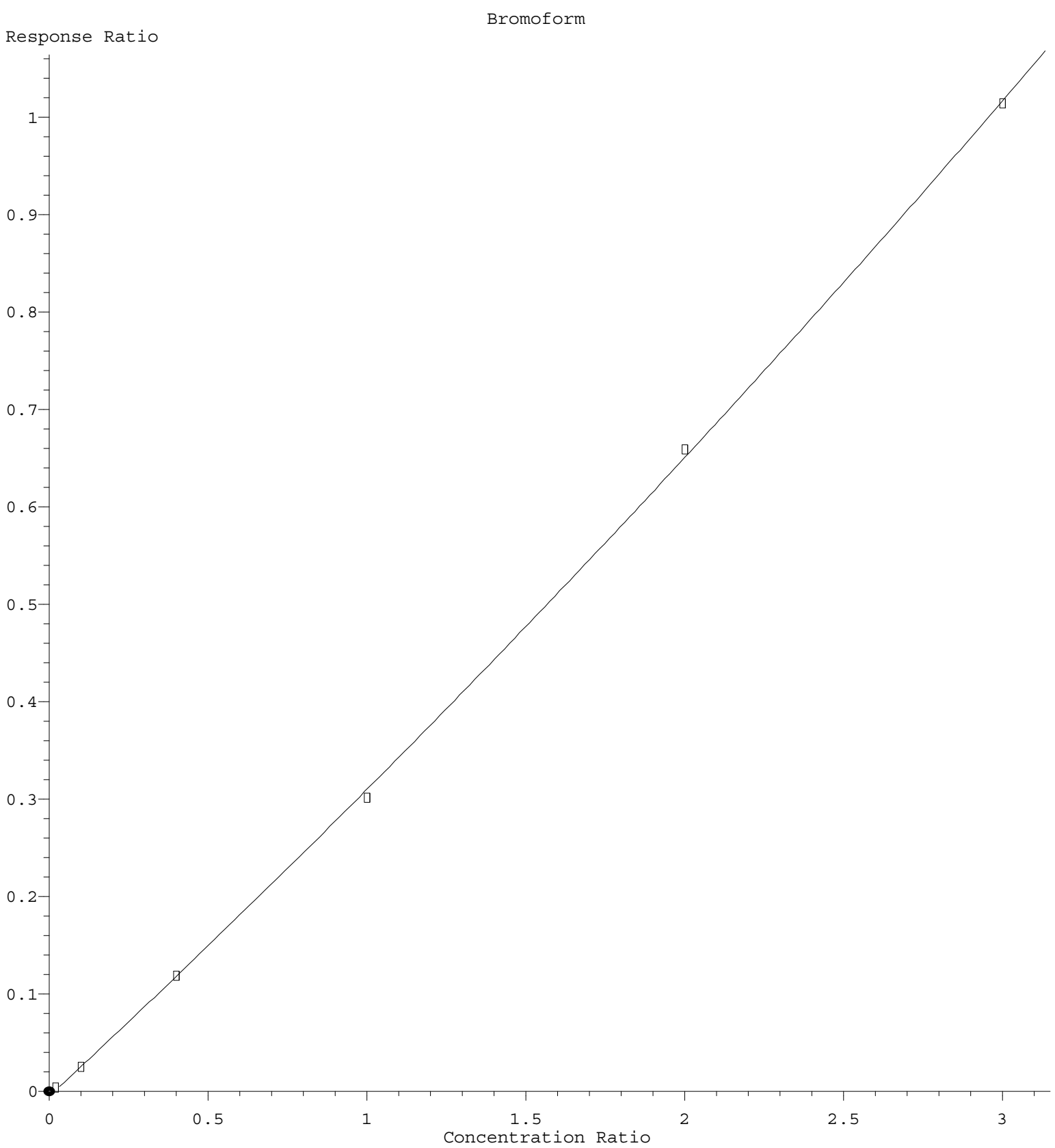
Calibration Files
1 =VX042877.D 5 =VX042878.D 20 =VX042879.D 50 =VX042880.D 100 =VX042881.D 150 =VX042882.D

		Compound	1	5	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.521	0.492	0.550	0.552	0.571	0.547	0.539	5.21
3)	P	Chloromethane	0.675	0.573	0.601	0.551	0.574	0.549	0.587	8.01
4)	C	Vinyl Chloride	0.523	0.562	0.582	0.551	0.567	0.557	0.557	3.49#
5)	T	Bromomethane		0.351	0.323	0.316	0.350	0.346	0.337	4.83
6)	T	Chloroethane	0.382	0.331	0.321	0.321	0.284	0.266	0.317	12.73
7)	T	Trichlorofluor...	1.016	0.903	0.934	0.887	0.728	0.730	0.866	13.30
8)	T	Diethyl Ether	0.333	0.332	0.325	0.309	0.306	0.308	0.319	3.95
9)	T	1,1,2-Trichlor...	0.571	0.527	0.578	0.533	0.535	0.525	0.545	4.27
10)	T	Methyl Iodide		0.471	0.581	0.575	0.612	0.577	0.563	9.52
11)	T	Tert butyl alc...		0.125	0.123	0.147	0.143	0.144	0.137	8.36
12)	CM	1,1-Dichloroet...	0.559	0.561	0.575	0.535	0.548	0.529	0.551	3.09#
13)	T	Acrolein		0.132	0.136	0.134	0.137	0.133	0.135	1.52
14)	T	Allyl chloride	0.894	0.863	0.864	0.809	0.793	0.773	0.833	5.73
15)	T	Acrylonitrile	0.360	0.342	0.371	0.342	0.344	0.332	0.348	4.14
16)	T	Acetone	0.353	0.284	0.316	0.282	0.279	0.272	0.298	10.48
17)	T	Carbon Disulfide	1.453	1.225	1.325	1.297	1.381	1.366	1.341	5.81
18)	T	Methyl Acetate	1.096	1.024	0.965	0.881	0.871	0.828	0.944	10.88
19)	T	Methyl tert-bu...	1.847	1.847	1.921	1.834	1.855	1.825	1.855	1.85
20)	T	Methylene Chlo...	1.053	0.702	0.677	0.596	0.609	0.593	0.705	25.03
21)	T	trans-1,2-Dich...	0.549	0.547	0.576	0.552	0.557	0.545	0.554	2.08
22)	T	Diisopropyl ether	1.818	1.821	1.980	1.821	1.803	1.733	1.829	4.43
23)	T	Vinyl Acetate	1.881	1.995	2.280	2.131	2.129	2.041	2.076	6.58
24)	P	1,1-Dichloroet...	1.079	1.071	1.110	1.042	1.034	0.976	1.052	4.39
25)	T	2-Butanone	0.449	0.462	0.510	0.469	0.466	0.449	0.468	4.81
26)	T	2,2-Dichloropr...	0.666	0.627	0.658	0.638	0.637	0.655	0.647	2.34
27)	T	cis-1,2-Dichlo...	0.585	0.666	0.708	0.663	0.668	0.655	0.658	6.11
28)	T	Bromochloromet...	0.463	0.453	0.412	0.344	0.387	0.363	0.404	11.90
29)	T	Tetrahydrofuran	0.323	0.320	0.341	0.310	0.309	0.293	0.316	5.12
30)	C	Chloroform	1.114	1.083	1.166	1.091	1.092	1.062	1.101	3.25#
31)	T	Cyclohexane		0.817	0.896	0.858	0.869	0.855	0.859	3.32
32)	T	1,1,1-Trichlor...	0.918	0.937	1.012	0.971	0.995	0.984	0.970	3.70
33)	S	1,2-Dichloroet...		0.726	0.669	0.667	0.687	0.683	0.686	3.45
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.333	0.315	0.323	0.336	0.329	0.327	2.57
36)	T	1,1-Dichloropr...	0.475	0.441	0.448	0.429	0.435	0.432	0.443	3.80
37)	T	Ethyl Acetate	0.602	0.511	0.597	0.548	0.539	0.530	0.555	6.67
38)	T	Carbon Tetrach...	0.532	0.465	0.500	0.492	0.505	0.508	0.500	4.41
39)	T	Methylcyclohexane	0.459	0.496	0.555	0.549	0.556	0.546	0.527	7.57
40)	TM	Benzene	1.318	1.391	1.456	1.384	1.361	1.344	1.376	3.46
41)	T	Methacrylonitrile	0.241	0.282	0.315	0.295	0.292	0.289	0.286	8.56
42)	TM	1,2-Dichloroet...	0.500	0.505	0.524	0.497	0.492	0.484	0.500	2.73
43)	T	Isopropyl Acetate	0.750	0.792	0.851	0.832	0.854	0.842	0.820	5.02
44)	TM	Trichloroethene	0.348	0.347	0.359	0.338	0.342	0.340	0.346	2.25
45)	C	1,2-Dichloropr...	0.360	0.344	0.371	0.347	0.341	0.332	0.349	3.98#
46)	T	Dibromomethane	0.244	0.255	0.274	0.256	0.256	0.253	0.256	3.81
47)	T	Bromodichlorom...	0.422	0.455	0.504	0.487	0.497	0.492	0.476	6.64
48)	T	Methyl methacr...	0.329	0.371	0.425	0.411	0.416	0.408	0.393	9.35
49)	T	1,4-Dioxane	0.007	0.009	0.009	0.009	0.009	0.009	0.009	9.32
50)	S	Toluene-d8		1.195	1.151	1.136	1.170	1.151	1.161	1.96
51)	T	4-Methyl-2-Pen...	0.495	0.550	0.612	0.554	0.554	0.532	0.549	6.89
52)	CM	Toluene	0.732	0.836	0.915	0.849	0.851	0.824	0.834	7.11#
53)	T	t-1,3-Dichloro...	0.346	0.390	0.465	0.457	0.490	0.493	0.440	13.42
54)	T	cis-1,3-Dichlo...	0.392	0.468	0.508	0.503	0.523	0.522	0.486	10.30
55)	T	1,1,2-Trichlor...	0.312	0.339	0.364	0.336	0.346	0.338	0.339	4.96
56)	T	Ethyl methacry...	0.458	0.500	0.584	0.558	0.593	0.583	0.546	10.04

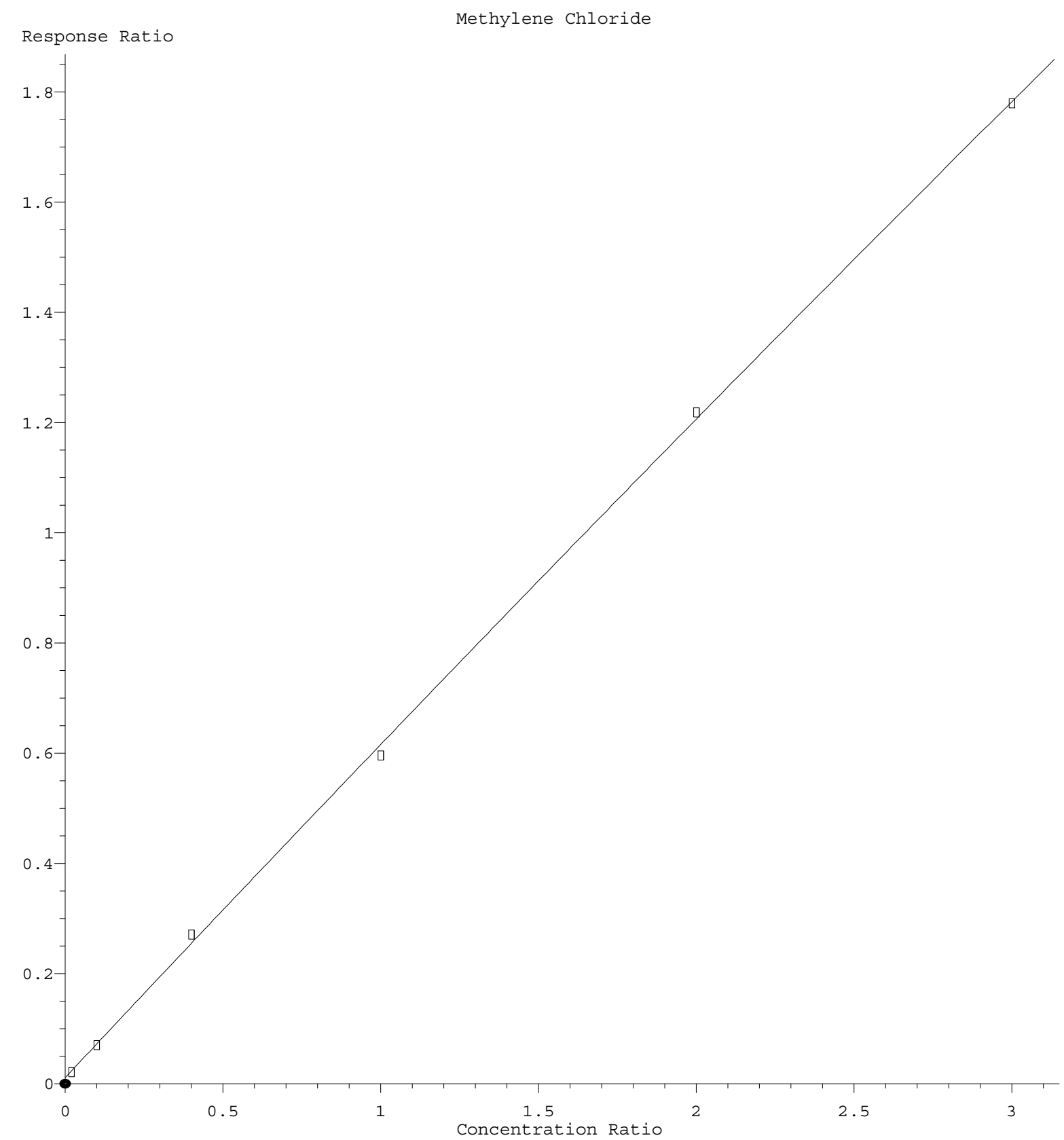
Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X080724W.M

57)	T	1,3-Dichloropr...	0.516	0.558	0.602	0.554	0.561	0.544	0.556	5.02
58)	T	2-Chloroethyl ...	0.207	0.245	0.283	0.271	0.278	0.259	0.257	10.89
59)	T	2-Hexanone	0.390	0.416	0.464	0.428	0.432	0.423	0.426	5.67
60)	T	Dibromochlorom...	0.332	0.341	0.391	0.372	0.401	0.399	0.373	7.97
61)	T	1,2-Dibromoethane	0.327	0.352	0.386	0.359	0.366	0.360	0.358	5.43
62)	S	4-Bromofluorob...		0.404	0.401	0.398	0.441	0.441	0.417	5.30
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.354	0.335	0.368	0.348	0.343	0.337	0.348	3.47
65)	PM	Chlorobenzene	1.081	1.042	1.112	1.039	1.052	1.040	1.061	2.78
66)	T	1,1,1,2-Tetrac...	0.341	0.348	0.387	0.366	0.377	0.376	0.366	4.89
67)	C	Ethyl Benzene	1.660	1.668	1.921	1.806	1.830	1.823	1.785	5.71#
68)	T	m/p-Xylenes	0.601	0.637	0.754	0.696	0.701	0.698	0.681	7.93
69)	T	o-Xylene	0.662	0.639	0.727	0.687	0.694	0.686	0.683	4.33
70)	T	Styrene	0.880	1.005	1.181	1.154	1.185	1.179	1.098	11.54
71)	P	Bromoform	0.197	0.251	0.297	0.301	0.329	0.338	0.286	18.57
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.448	3.709	3.932	3.673	3.523	3.404	3.615	5.44
74)	T	N-amyl acetate	1.404	1.558	1.727	1.694	1.697	1.679	1.627	7.61
75)	P	1,1,2,2-Tetrac...	1.465	1.402	1.401	1.274	1.212	1.191	1.324	8.60
76)	T	1,2,3-Trichlor...	1.195	1.246	1.142	1.053	0.989	1.122	1.124	8.31
77)	T	Bromobenzene	0.886	0.968	0.981	0.917	0.891	0.873	0.920	4.93
78)	T	n-propylbenzene	3.520	3.965	4.378	4.212	4.048	3.969	4.015	7.23
79)	T	2-Chlorotoluene	2.552	2.667	2.770	2.571	2.481	2.401	2.574	5.10
80)	T	1,3,5-Trimethy...	2.608	3.026	3.301	3.092	3.008	2.924	2.993	7.61
81)	T	trans-1,4-Dich...		0.269	0.340	0.360	0.372	0.389	0.346	13.48
82)	T	4-Chlorotoluene	2.711	2.892	3.134	2.923	2.862	2.835	2.893	4.80
83)	T	tert-Butylbenzene	2.950	3.024	3.248	3.100	3.097	3.038	3.076	3.27
84)	T	1,2,4-Trimethy...	2.623	2.921	3.329	3.158	3.055	2.994	3.013	7.90
85)	T	sec-Butylbenzene	2.988	3.613	4.009	3.781	3.715	3.628	3.622	9.45
86)	T	p-Isopropyltol...	2.417	2.902	3.281	3.209	3.148	3.098	3.009	10.54
87)	T	1,3-Dichlorobe...	1.704	1.646	1.764	1.647	1.612	1.612	1.664	3.57
88)	T	1,4-Dichlorobe...	1.850	1.728	1.769	1.635	1.622	1.630	1.706	5.45
89)	T	n-Butylbenzene	2.166	2.348	2.711	2.727	2.813	2.811	2.596	10.48
90)	T	Hexachloroethane	0.541	0.505	0.567	0.547	0.567	0.575	0.550	4.65
91)	T	1,2-Dichlorobe...	1.598	1.714	1.775	1.657	1.637	1.619	1.666	3.98
92)	T	1,2-Dibromo-3-...	0.291	0.263	0.309	0.293	0.288	0.301	0.291	5.30
93)	T	1,2,4-Trichlor...	1.001	0.941	1.027	1.017	1.043	1.069	1.017	4.31
94)	T	Hexachlorobuta...	0.394	0.425	0.449	0.434	0.440	0.444	0.431	4.57
95)	T	Naphthalene	2.999	3.267	3.704	3.664	3.721	3.749	3.518	8.84
96)	T	1,2,3-Trichlor...	0.928	0.954	1.051	1.045	1.069	1.093	1.023	6.50

(#) = Out of Range



R = 1.280e-002 A*A + 3.022e-001 A - 4.895e-003
Coef of Det (r^2) = 0.999804 Curve Fit: Quadratic
Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X080724W.M
Calibration Table Last Updated: Wed Aug 07 02:55:22 2024



R = -7.046e-003 A*A + 6.116e-001 A + 1.127e-002
Coef of Det (r^2) = 0.999667 Curve Fit: Quadratic
Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X080724W.M
Calibration Table Last Updated: Wed Aug 07 02:55:22 2024

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042877.D
Acq On : 06 Aug 2024 18:18
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

Quant Time: Aug 07 02:36:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:27:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.556	168	214349	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	6.763	114	373378	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	318130	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	135893	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 78 - 117		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 92 - 112		Recovery =	0.000%#		
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l	
Spiked Amount 50.000	Range 83 - 123		Recovery =	0.000%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	2235	0.967	ug/l	84
3) Chloromethane	1.300	50	2895	1.150	ug/l	89
4) Vinyl Chloride	1.374	62	2244	0.940	ug/l	92
6) Chloroethane	1.666	64	1637	1.203	ug/l	97
7) Trichlorofluoromethane	1.873	101	4356	1.173	ug/l	98
8) Diethyl Ether	2.136	74	1426	1.044	ug/l	80
9) 1,1,2-Trichlorotrifluo...	2.319	101	2447	1.048	ug/l	91
12) 1,1-Dichloroethene	2.312	96	2396	1.014	ug/l	85
14) Allyl chloride	2.666	41	3832	1.073	ug/l	92
15) Acrylonitrile	3.081	53	7726	5.172	ug/l	95
16) Acetone	2.392	43	7573	5.933	ug/l	98
17) Carbon Disulfide	2.508	76	6229	1.083	ug/l #	93
18) Methyl Acetate	2.715	43	4698	1.161	ug/l	97
19) Methyl tert-butyl Ether	3.117	73	7919	0.996	ug/l	92
20) Methylene Chloride	2.788	84	4515	0.801	ug/l	95
21) trans-1,2-Dichloroethene	3.093	96	2355	0.991	ug/l #	81
22) Diisopropyl ether	3.776	45	7793	0.994	ug/l #	76
23) Vinyl Acetate	3.733	43	40319	4.530	ug/l	97
24) 1,1-Dichloroethane	3.611	63	4627	1.026	ug/l #	91
25) 2-Butanone	4.593	43	9633	4.806	ug/l	91
26) 2,2-Dichloropropane	4.477	77	2857	1.030	ug/l	90
27) cis-1,2-Dichloroethene	4.495	96	2508	0.890	ug/l	93
28) Bromochloromethane	4.910	49	1987	1.148	ug/l #	92
29) Tetrahydrofuran	5.038	42	6915	5.106	ug/l	96
30) Chloroform	5.092	83	4777	1.012	ug/l #	82
32) 1,1,1-Trichloroethane	5.373	97	3934	0.946	ug/l #	50
36) 1,1-Dichloropropene	5.696	75	3544	1.071	ug/l	99
37) Ethyl Acetate	4.757	43	4497	1.086	ug/l #	81
38) Carbon Tetrachloride	5.665	117	3972	1.063	ug/l #	65
39) Methylcyclohexane	7.379	83	3431	0.872	ug/l	88
40) Benzene	6.037	78	9845	0.958	ug/l	91
41) Methacrylonitrile	4.952	41	1801	0.844	ug/l #	72
42) 1,2-Dichloroethane	6.092	62	3732	0.999	ug/l	86
43) Isopropyl Acetate	6.360	43	5598	0.914	ug/l #	93
44) Trichloroethene	7.129	130	2598	1.007	ug/l	87
45) 1,2-Dichloropropane	7.446	63	2685	1.030	ug/l #	76

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042877.D
Acq On : 06 Aug 2024 18:18
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

Quant Time: Aug 07 02:36:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:27:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) Dibromomethane	7.592	93	1823	0.953	ug/l		89
47) Bromodichloromethane	7.824	83	3150	0.886	ug/l	#	89
48) Methyl methacrylate	7.708	41	2454	0.836	ug/l		91
49) 1,4-Dioxane	7.690	88	1068m	25.265	ug/l		
51) 4-Methyl-2-Pentanone	8.580	43	18476	4.504	ug/l		100
52) Toluene	8.726	92	5465	0.877	ug/l		76
53) t-1,3-Dichloropropene	8.988	75	2586	0.787	ug/l	#	84
54) cis-1,3-Dichloropropene	8.372	75	2931	0.808	ug/l		89
55) 1,1,2-Trichloroethane	9.153	97	2332	0.921	ug/l	#	86
56) Ethyl methacrylate	9.128	69	3417	0.838	ug/l		90
57) 1,3-Dichloropropane	9.317	76	3850	0.928	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.250	63	7742	4.030	ug/l		97
59) 2-Hexanone	9.439	43	14557	4.579	ug/l		90
60) Dibromochloromethane	9.525	129	2482	0.892	ug/l		99
61) 1,2-Dibromoethane	9.616	107	2439	0.911	ug/l		98
64) Tetrachloroethene	9.275	164	2255	1.019	ug/l	#	80
65) Chlorobenzene	10.079	112	6881	1.019	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.165	131	2169	0.932	ug/l	#	65
67) Ethyl Benzene	10.195	91	10561	0.930	ug/l		94
68) m/p-Xylenes	10.305	106	7649	1.764	ug/l		95
69) o-Xylene	10.646	106	4214	0.970	ug/l		88
70) Styrene	10.665	104	5602	0.802	ug/l		96
71) Bromoform	10.805	173	1254	1.460	ug/l	#	67
73) Isopropylbenzene	10.963	105	9372	0.954	ug/l		99
74) N-amyl acetate	10.847	43	3815	0.863	ug/l		92
75) 1,1,2,2-Tetrachloroethane	11.213	83	3983	1.107	ug/l		93
76) 1,2,3-Trichloropropane	11.244	75	3249m	1.090	ug/l		
77) Bromobenzene	11.201	156	2409	0.964	ug/l		87
78) n-propylbenzene	11.305	91	9566	0.877	ug/l		97
79) 2-Chlorotoluene	11.366	91	6935	0.991	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	7087	0.871	ug/l		94
82) 4-Chlorotoluene	11.457	91	7368	0.937	ug/l		95
83) tert-Butylbenzene	11.713	119	8017	0.959	ug/l		94
84) 1,2,4-Trimethylbenzene	11.756	105	7129	0.870	ug/l		100
85) sec-Butylbenzene	11.890	105	8121	0.825	ug/l		99
86) p-Isopropyltoluene	12.012	119	6569	0.803	ug/l		92
87) 1,3-Dichlorobenzene	11.975	146	4632	1.024	ug/l		94
88) 1,4-Dichlorobenzene	12.036	146	5029m	1.085	ug/l		
89) n-Butylbenzene	12.335	91	5887	0.834	ug/l		87
90) Hexachloroethane	12.536	117	1471	0.983	ug/l		95
91) 1,2-Dichlorobenzene	12.341	146	4342	0.959	ug/l		93
92) 1,2-Dibromo-3-Chloropr...	12.945	75	791	1.000	ug/l		91
93) 1,2,4-Trichlorobenzene	13.591	180	2720	0.985	ug/l		89
94) Hexachlorobutadiene	13.731	225	1072	0.915	ug/l		92
95) Naphthalene	13.780	128	8151	0.853	ug/l		97
96) 1,2,3-Trichlorobenzene	13.963	180	2521	0.907	ug/l		94

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

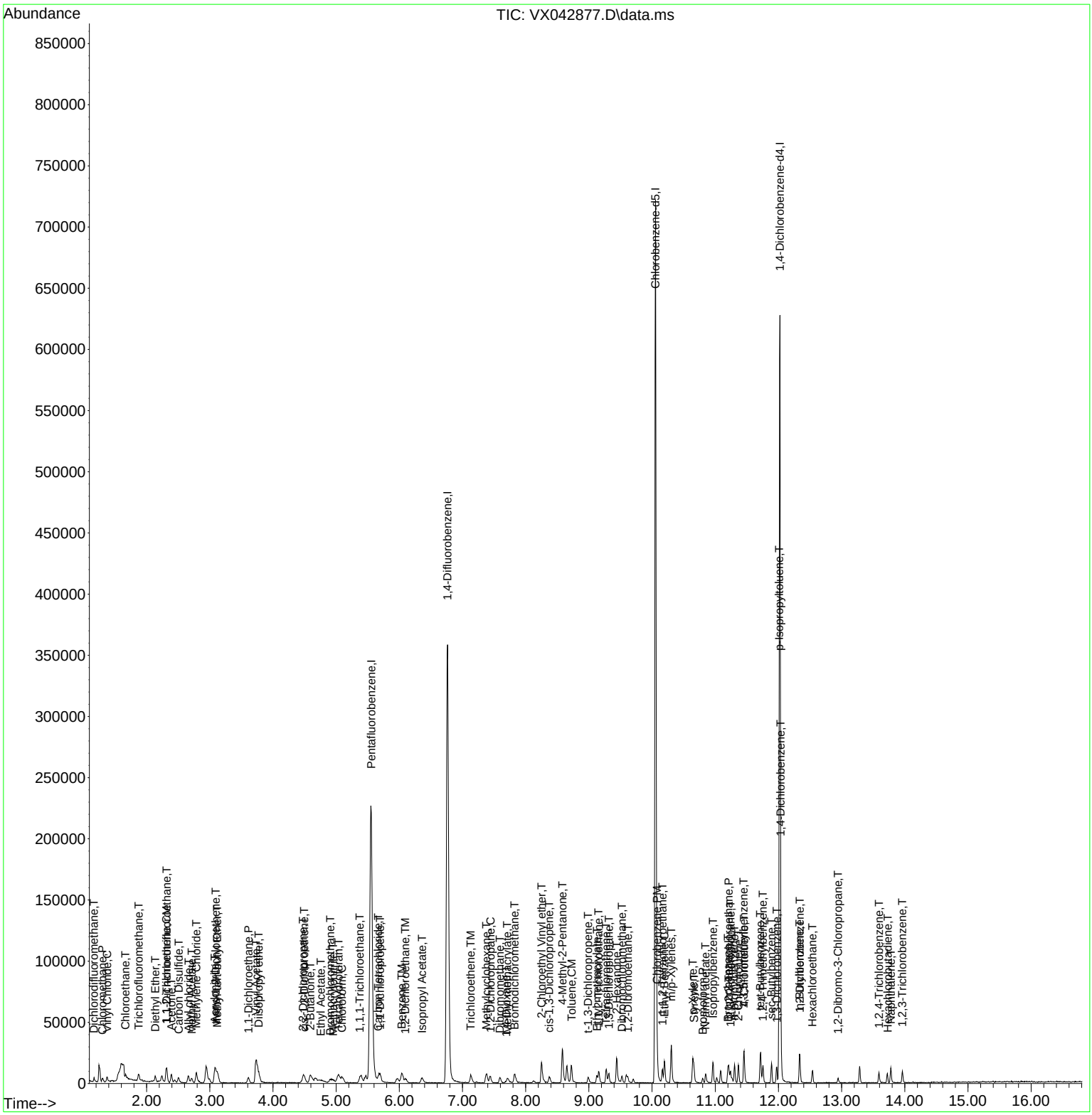
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042877.D
Acq On : 06 Aug 2024 18:18
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

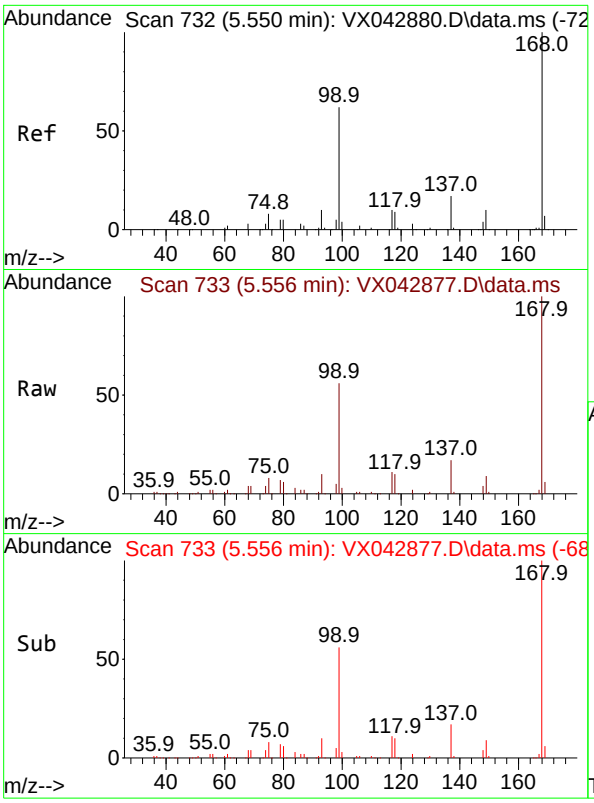
Quant Time: Aug 07 02:36:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:27:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

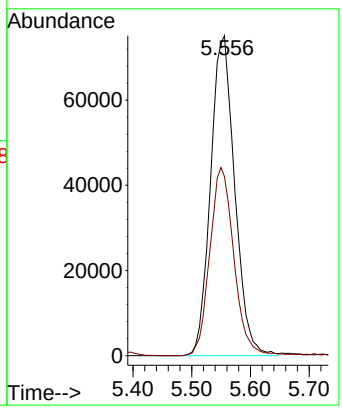




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion:168 Resp: 21434

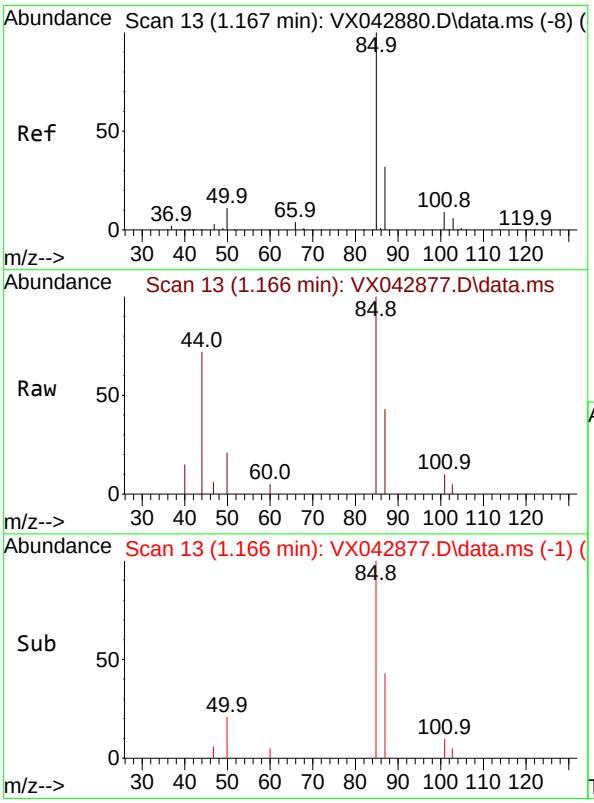
Ion	Ratio	Lower	Upper
168	100		
99	56.0	56.6	85.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

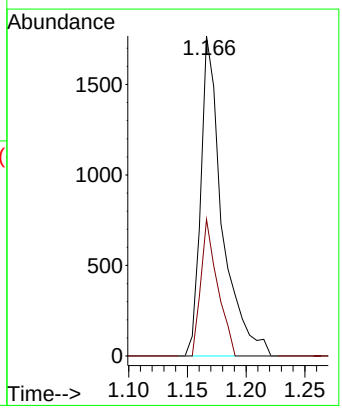
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

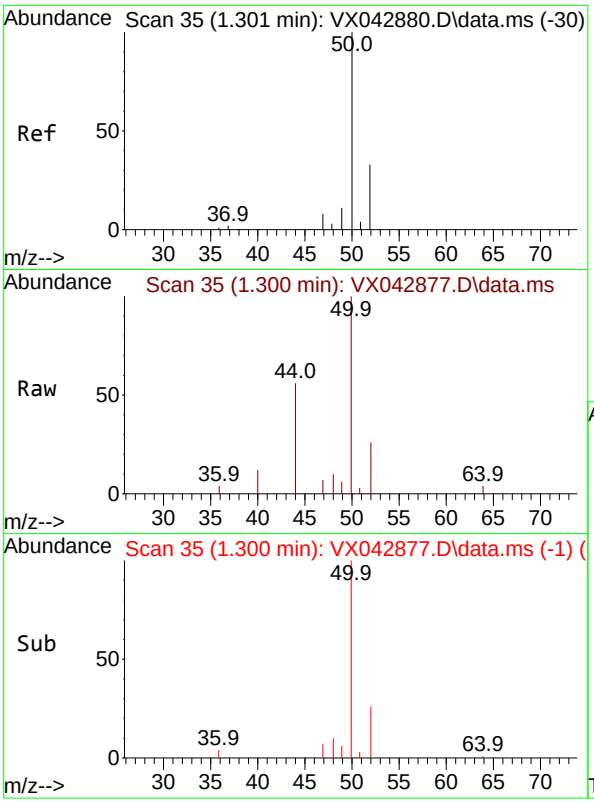


#2
Dichlorodifluoromethane
Concen: 0.967 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 85 Resp: 2235

Ion	Ratio	Lower	Upper
85	100		
87	42.7	16.7	50.1

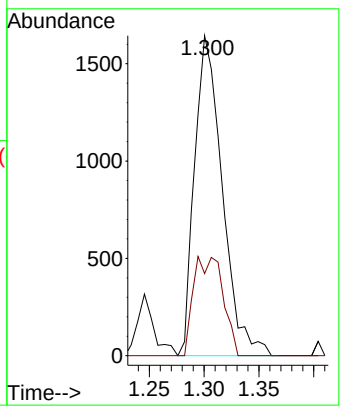




#3
Chloromethane
Concen: 1.150 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 50 Resp: 289

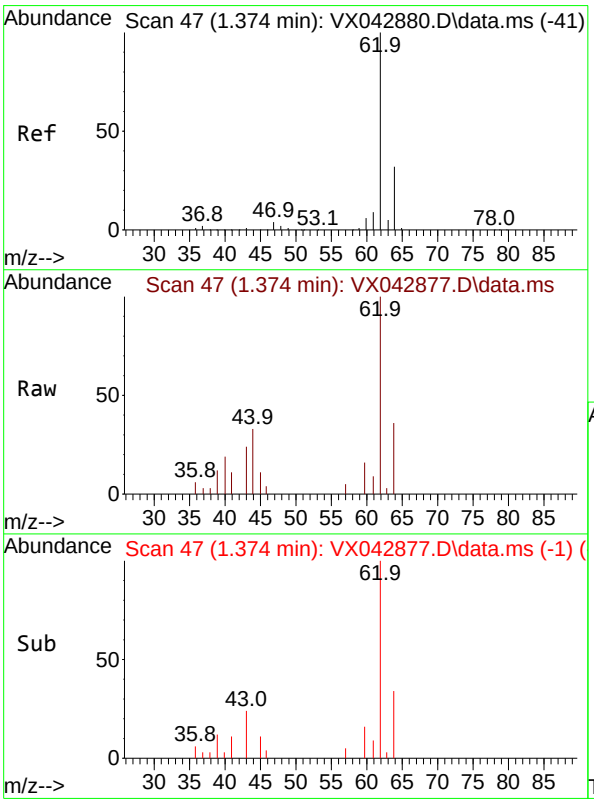
Ion	Ratio	Lower	Upper
50	100		
52	25.7	25.5	38.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

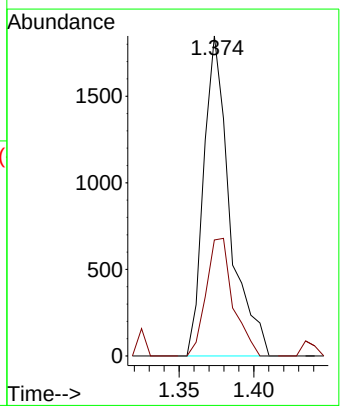
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

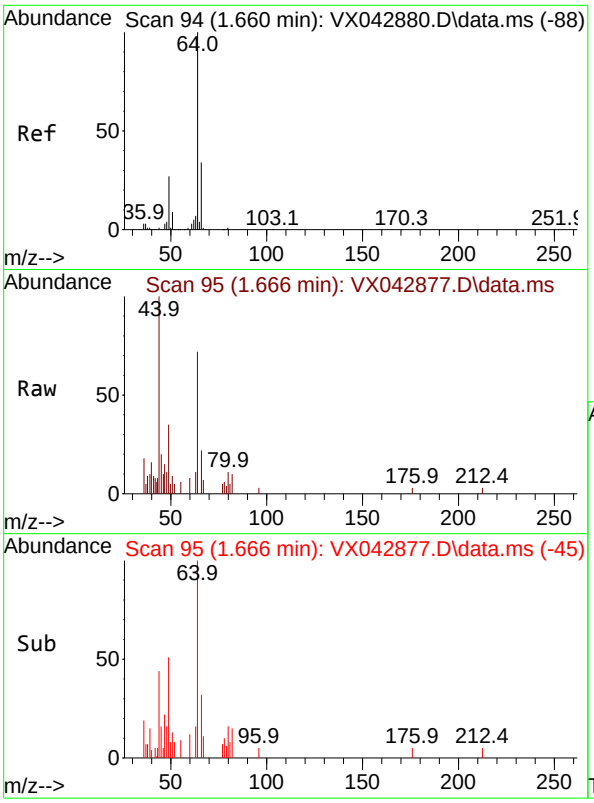


#4
Vinyl Chloride
Concen: 0.940 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 62 Resp: 2244

Ion	Ratio	Lower	Upper
62	100		
64	36.3	25.4	38.0

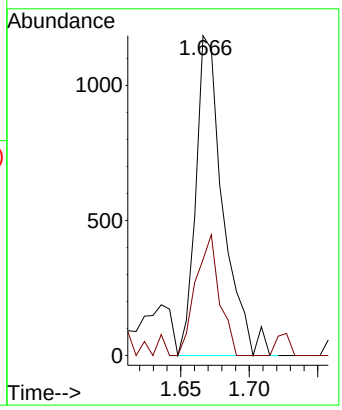




#6
Chloroethane
Concen: 1.203 ug/l
RT: 1.666 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 64 Resp: 163

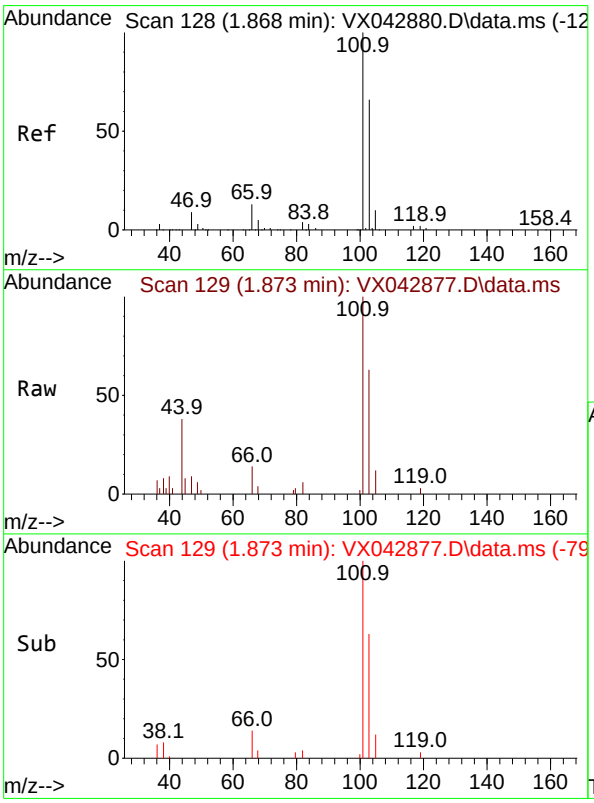
Ion	Ratio	Lower	Upper
64	100		
66	30.0	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

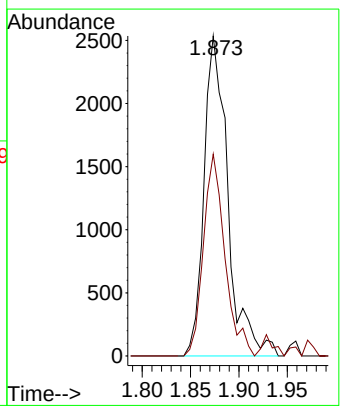
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

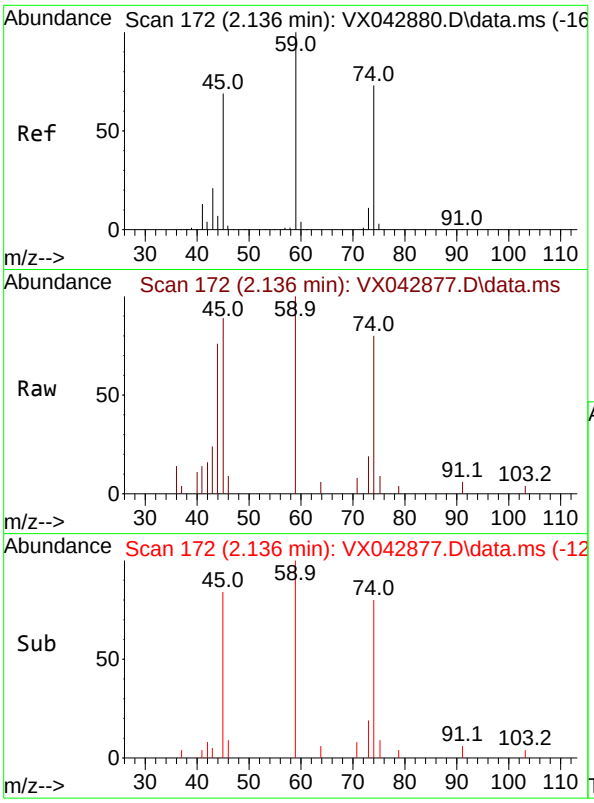


#7
Trichlorofluoromethane
Concen: 1.173 ug/l
RT: 1.873 min Scan# 129
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion:101 Resp: 4356

Ion	Ratio	Lower	Upper
101	100		
103	63.1	51.4	77.2





#8
Diethyl Ether
Concen: 1.044 ug/l
RT: 2.136 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

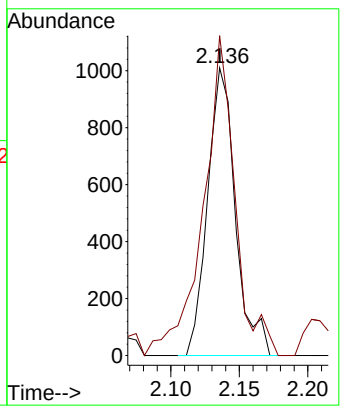
Tgt Ion: 74 Resp: 142

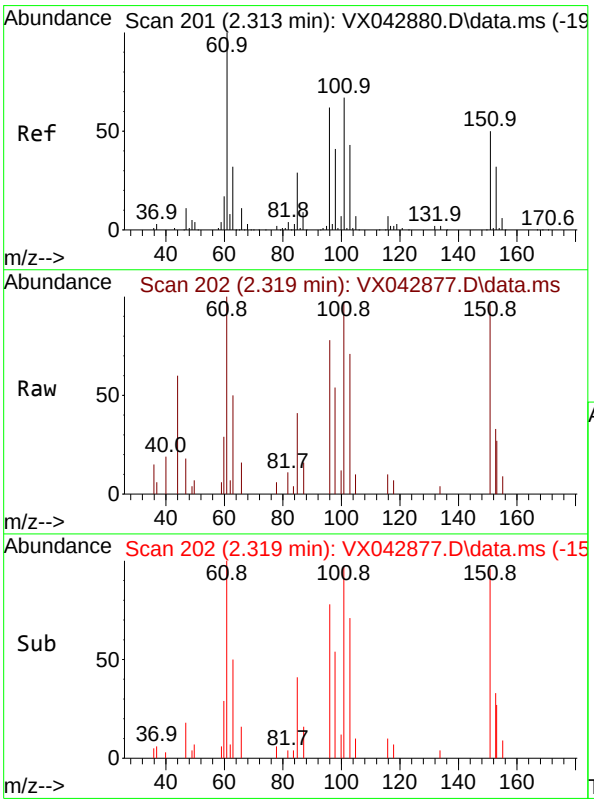
Ion	Ratio	Lower	Upper
74	100		
45	126.7	53.3	159.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

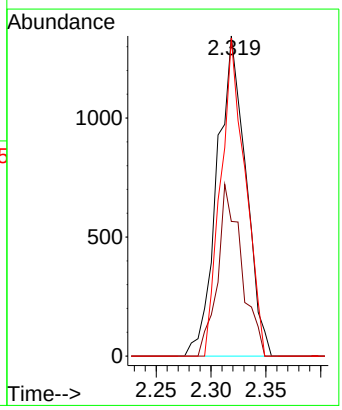


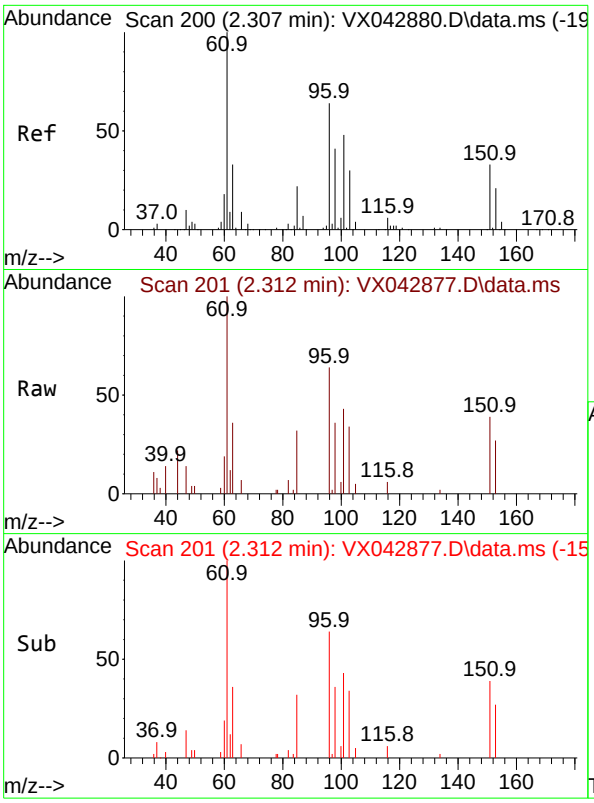


#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.048 ug/l
RT: 2.319 min Scan# 202
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion:101 Resp: 2447

Ion	Ratio	Lower	Upper
101	100		
85	44.7	37.0	55.6
151	84.7	58.6	87.8





#12
1,1-Dichloroethene
Concen: 1.014 ug/l
RT: 2.312 min Scan# 2(
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

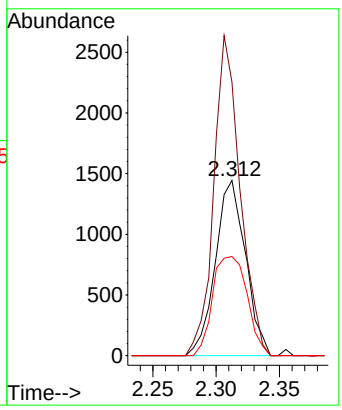
Tgt Ion: 96 Resp: 239(

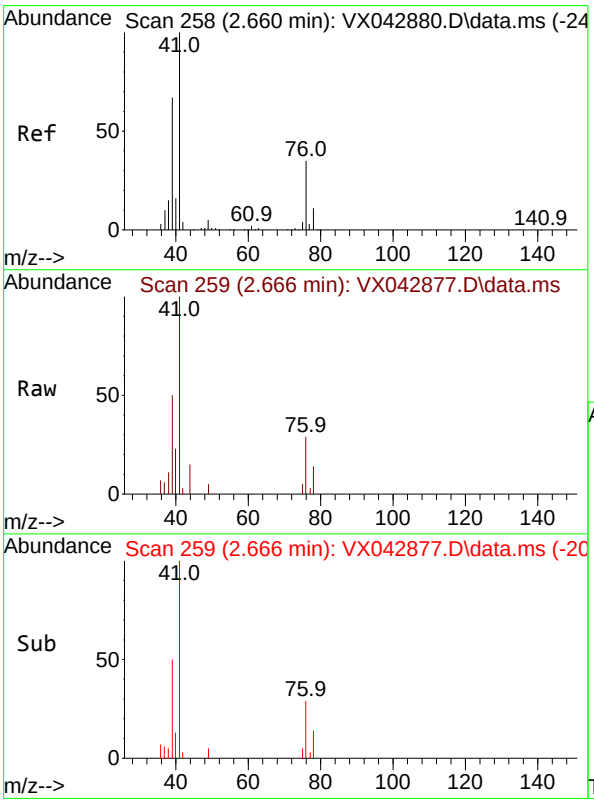
Ion	Ratio	Lower	Upper
96	100		
61	156.1	144.6	216.8
98	56.6	50.4	75.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

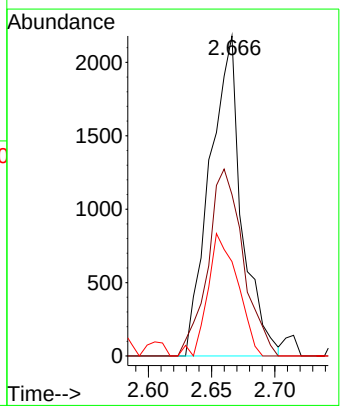


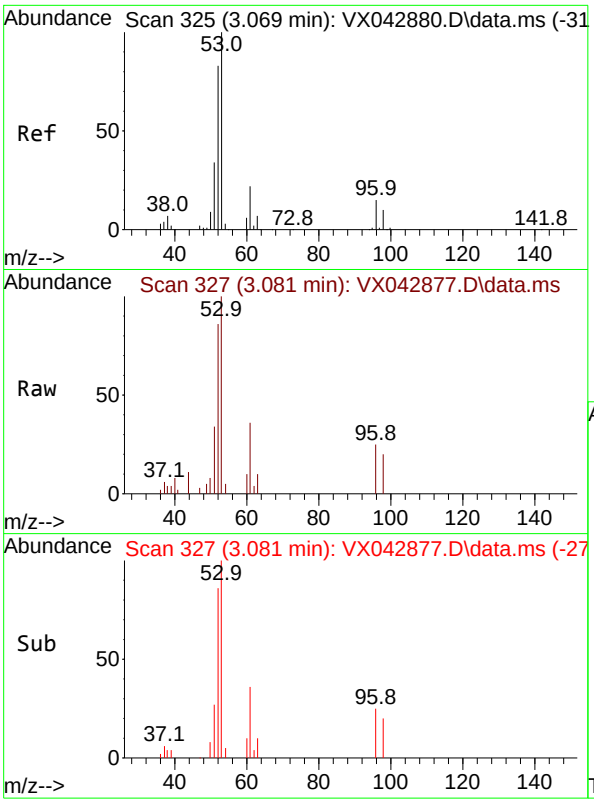


#14
Allyl chloride
Concen: 1.073 ug/l
RT: 2.666 min Scan# 259
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 41 Resp: 3832

Ion	Ratio	Lower	Upper
41	100		
39	64.3	55.8	83.6
76	35.7	24.3	36.5

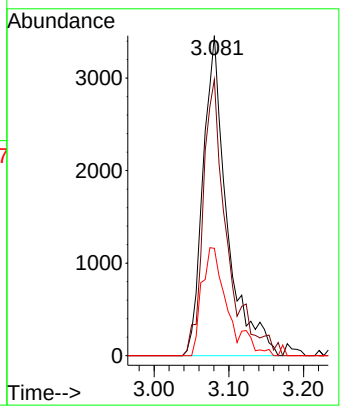




#15
Acrylonitrile
Concen: 5.172 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.012 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 53 Resp: 772

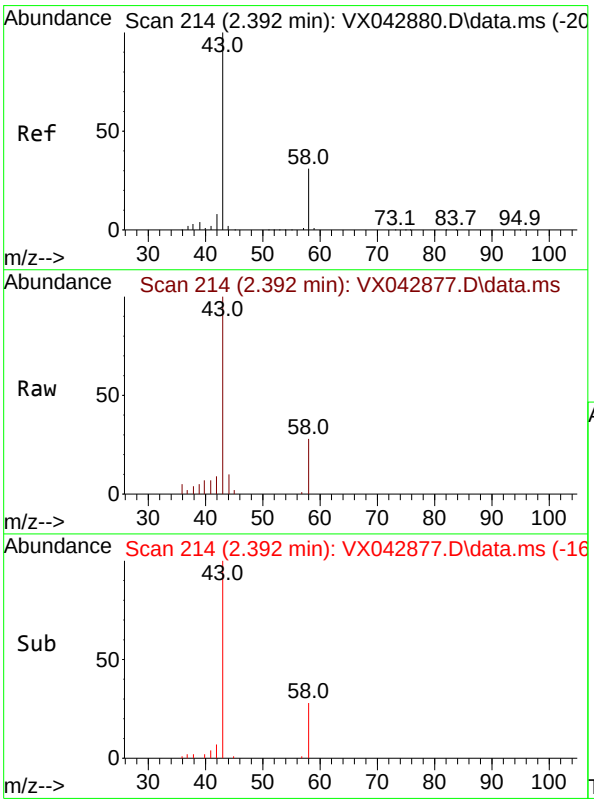
Ion	Ratio	Lower	Upper
53	100		
52	85.5	66.0	99.0
51	31.6	29.8	44.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

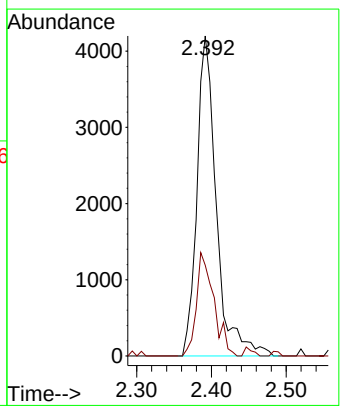
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

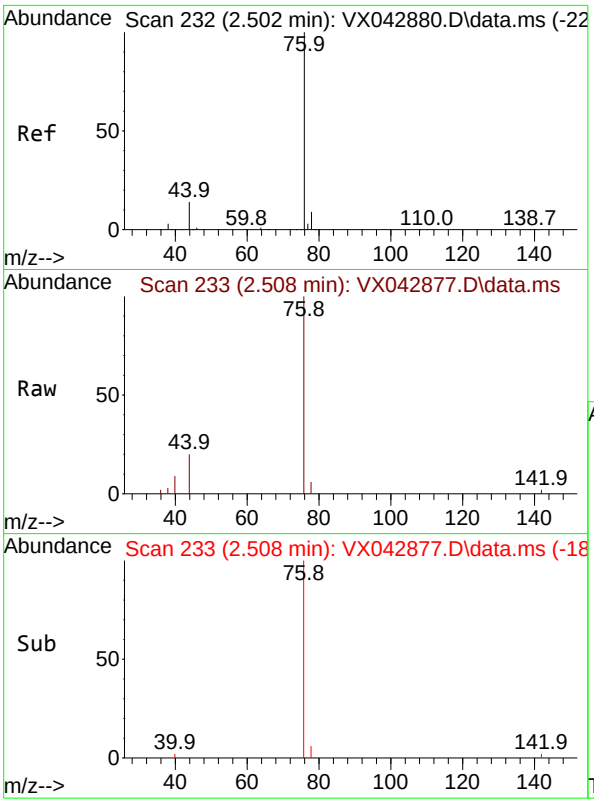


#16
Acetone
Concen: 5.933 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 43 Resp: 7573

Ion	Ratio	Lower	Upper
43	100		
58	28.4	21.9	32.9

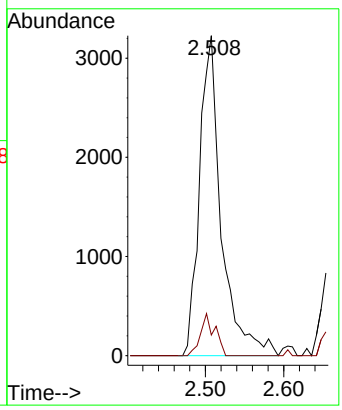




#17
Carbon Disulfide
Concen: 1.083 ug/l
RT: 2.508 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 76 Resp: 622

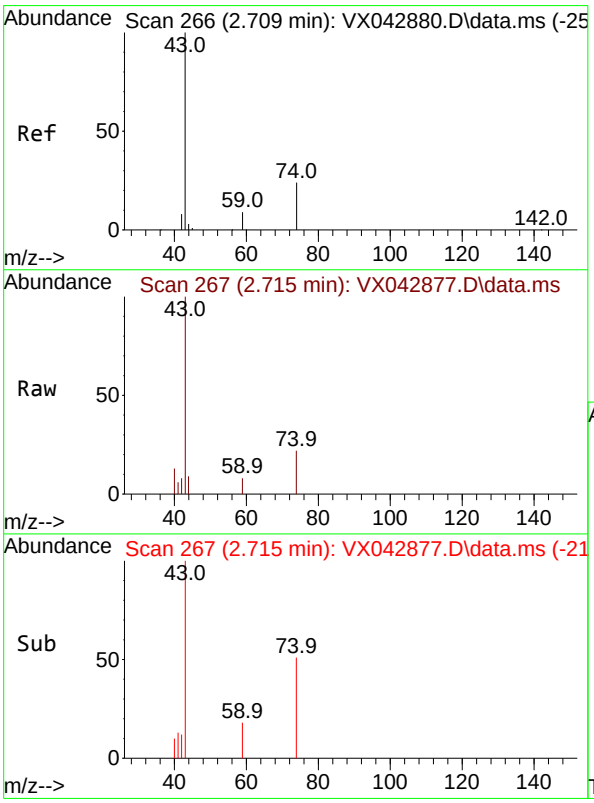
Ion	Ratio	Lower	Upper
76	100		
78	6.4	7.0	10.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

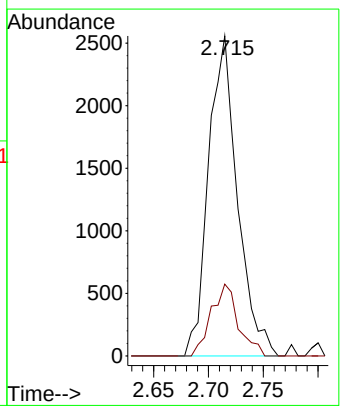
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

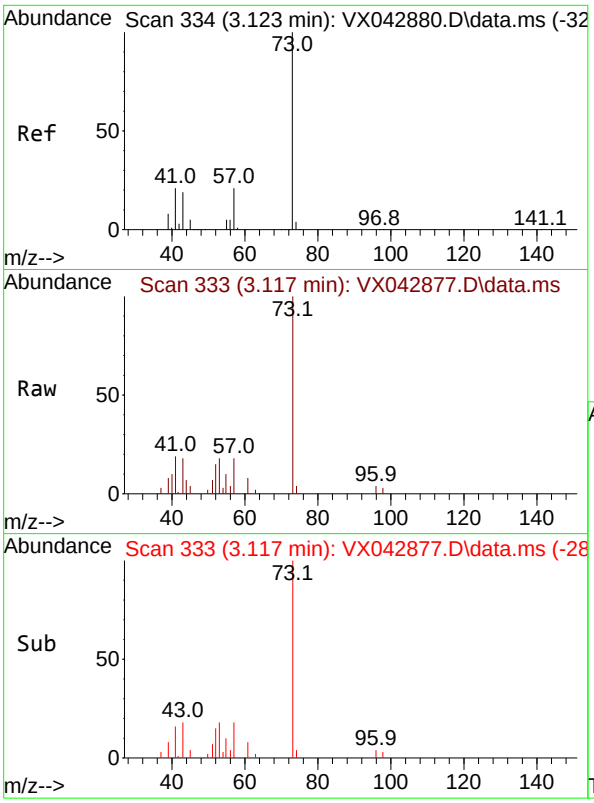


#18
Methyl Acetate
Concen: 1.161 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 43 Resp: 4698

Ion	Ratio	Lower	Upper
43	100		
74	21.0	17.8	26.8





#19
Methyl tert-butyl Ether
Concen: 0.996 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

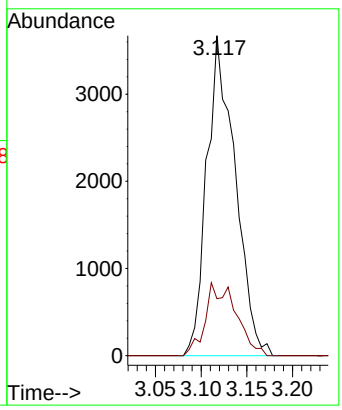
Tgt Ion: 73 Resp: 791

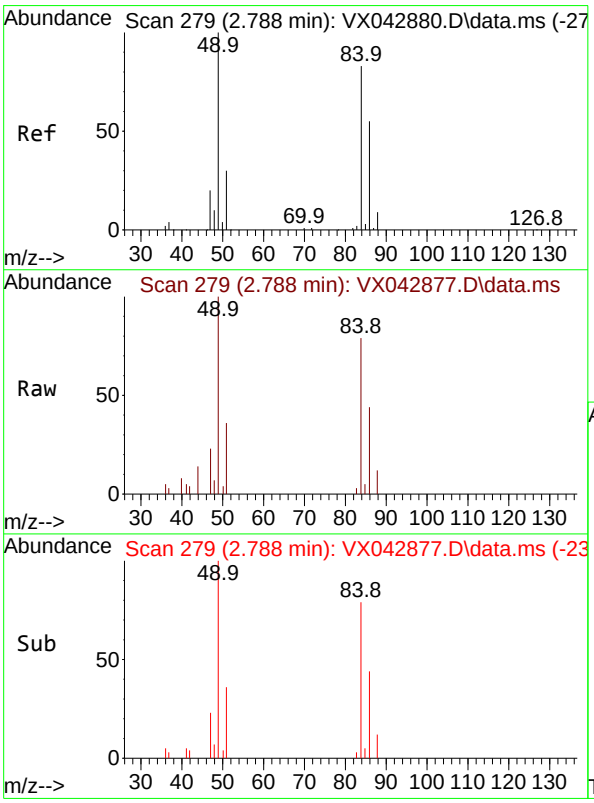
Ion	Ratio	Lower	Upper
73	100		
57	17.8	17.3	25.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

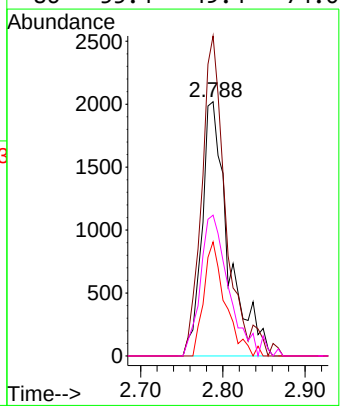


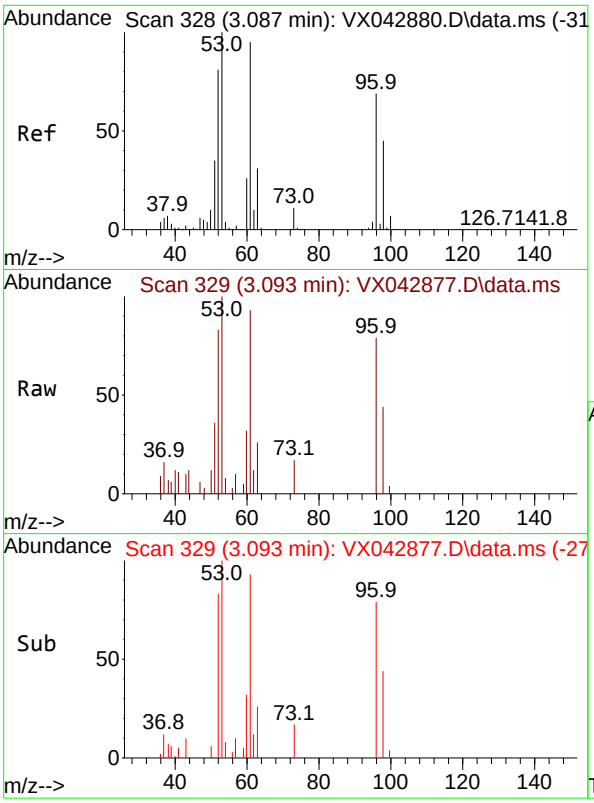


#20
Methylene Chloride
Concen: 0.801 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 84 Resp: 4515

Ion	Ratio	Lower	Upper
84	100		
49	125.8	103.6	155.4
51	44.9	33.8	50.6
86	55.4	49.4	74.0

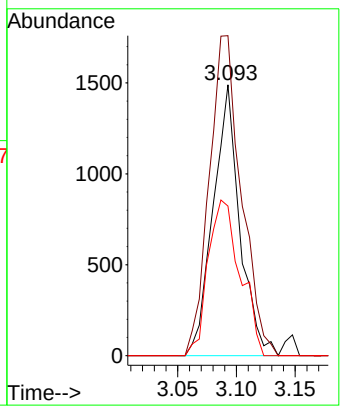




#21
trans-1,2-Dichloroethene
Concen: 0.991 ug/l
RT: 3.093 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 96 Resp: 235

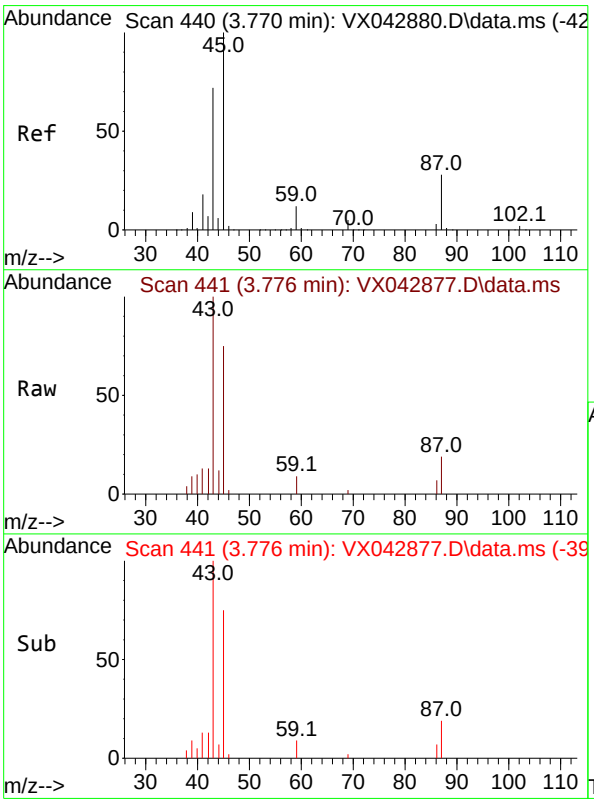
Ion	Ratio	Lower	Upper
96	100		
61	118.1	119.2	178.8#
98	55.2	48.7	73.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

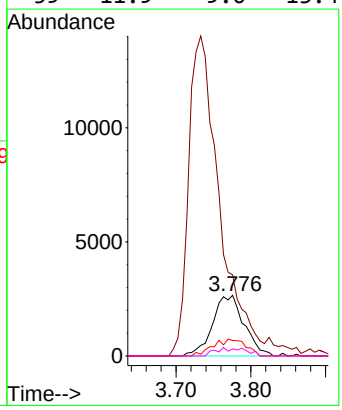
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

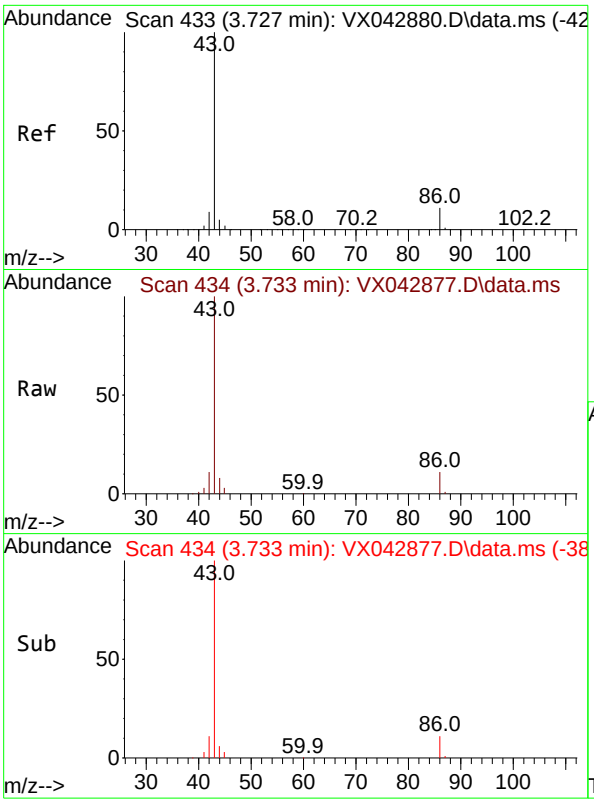


#22
Diisopropyl ether
Concen: 0.994 ug/l
RT: 3.776 min Scan# 441
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 45 Resp: 7793

Ion	Ratio	Lower	Upper
45	100		
43	118.2	69.7	104.5#
87	25.6	20.8	31.2
59	11.9	9.0	13.4





#23
Vinyl Acetate
Concen: 4.530 ug/l
RT: 3.733 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

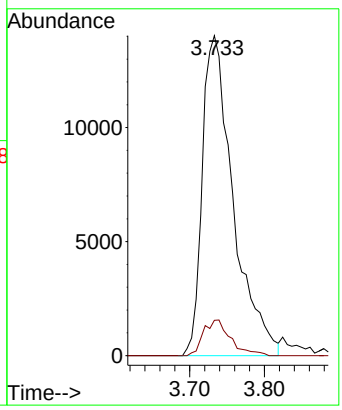
Tgt Ion: 43 Resp: 4031

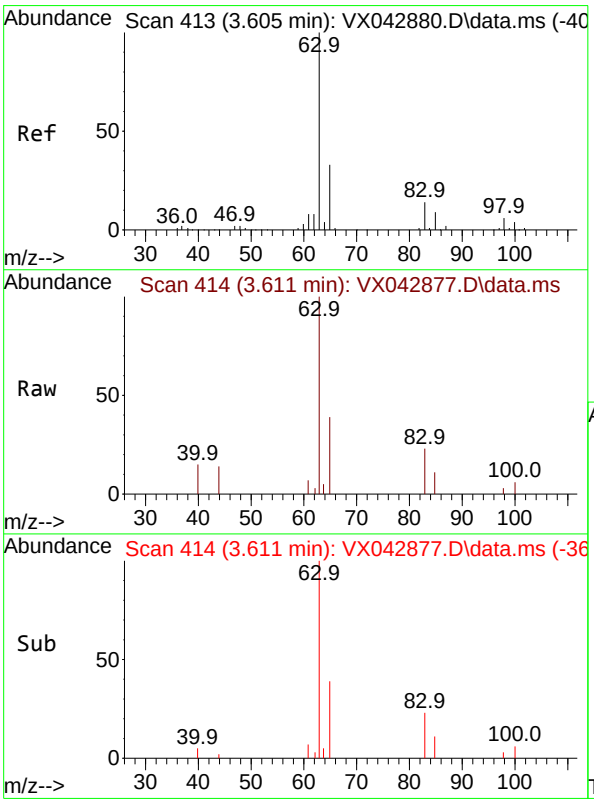
Ion	Ratio	Lower	Upper
43	100		
86	11.0	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

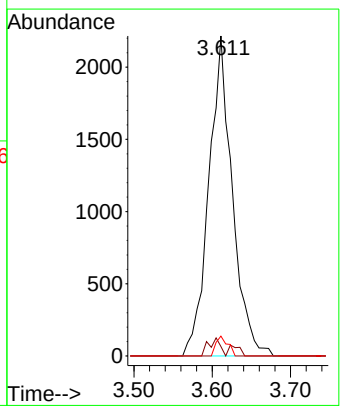


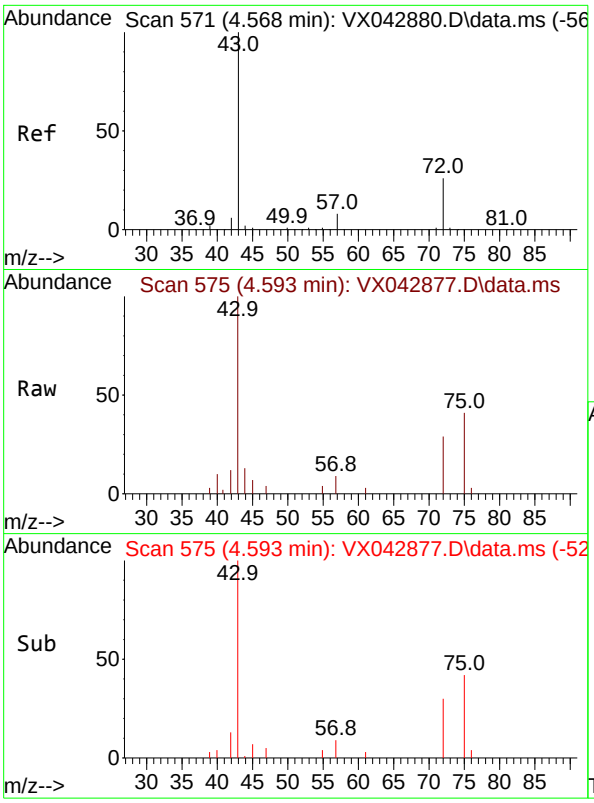


#24
1,1-Dichloroethane
Concen: 1.026 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 63 Resp: 4627

Ion	Ratio	Lower	Upper
63	100		
98	3.0	3.3	9.8#
100	6.2	2.1	6.5





#25
2-Butanone
Concen: 4.806 ug/l
RT: 4.593 min Scan# 5
Delta R.T. 0.024 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

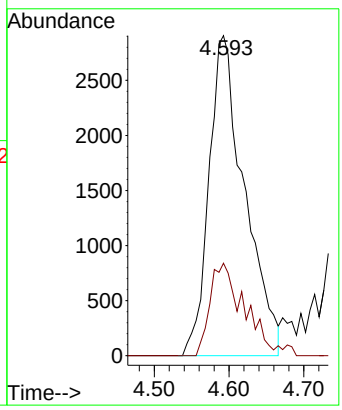
Tgt Ion: 43 Resp: 963

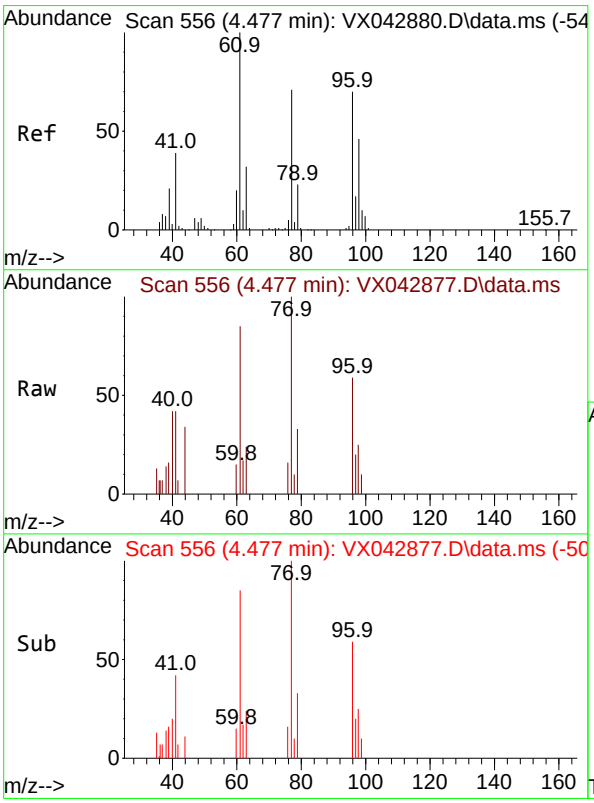
Ion	Ratio	Lower	Upper
43	100		
72	28.9	19.4	29.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

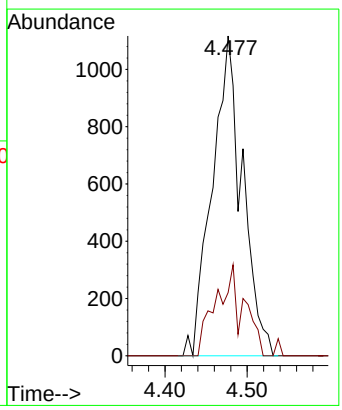


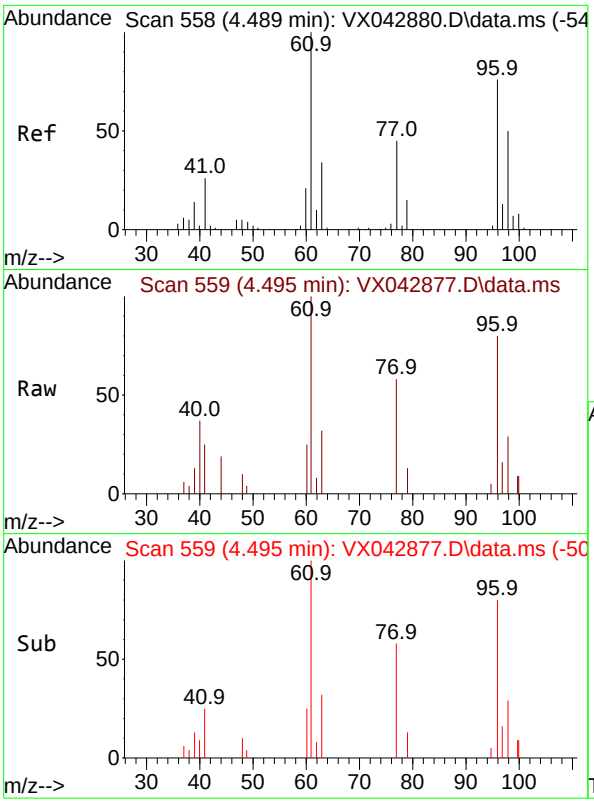


#26
2,2-Dichloropropane
Concen: 1.030 ug/l
RT: 4.477 min Scan# 556
Delta R.T. -0.000 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 77 Resp: 2857

Ion	Ratio	Lower	Upper
77	100		
97	26.2	10.8	32.3





#27
cis-1,2-Dichloroethene
Concen: 0.890 ug/l
RT: 4.495 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

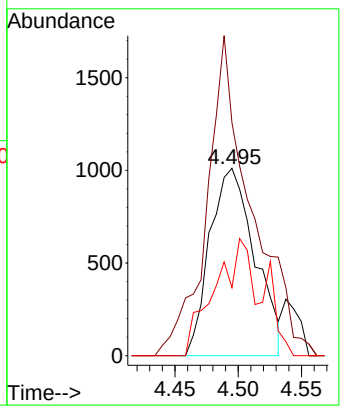
Tgt Ion: 96 Resp: 250

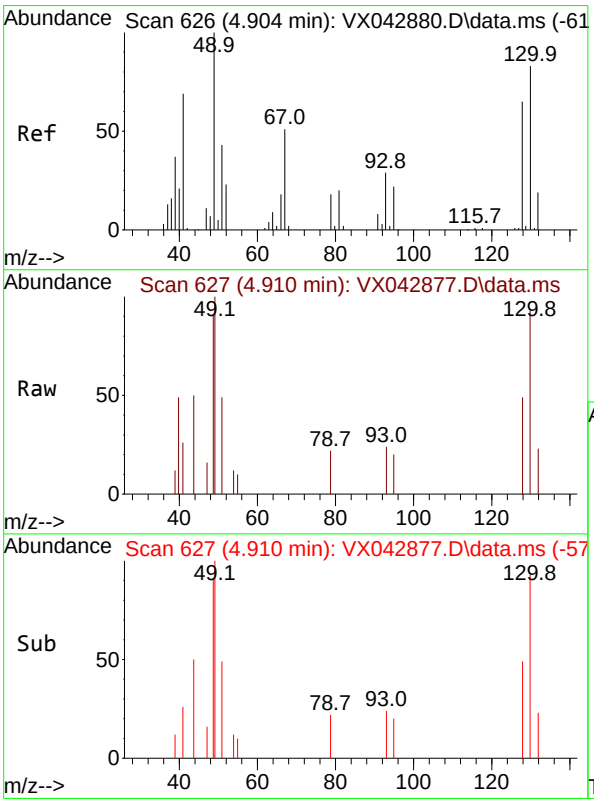
Ion	Ratio	Lower	Upper
96	100		
61	167.6	0.0	312.2
98	65.5	0.0	129.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

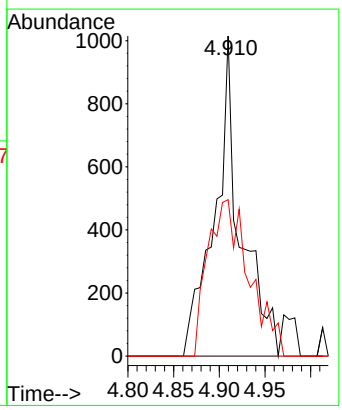


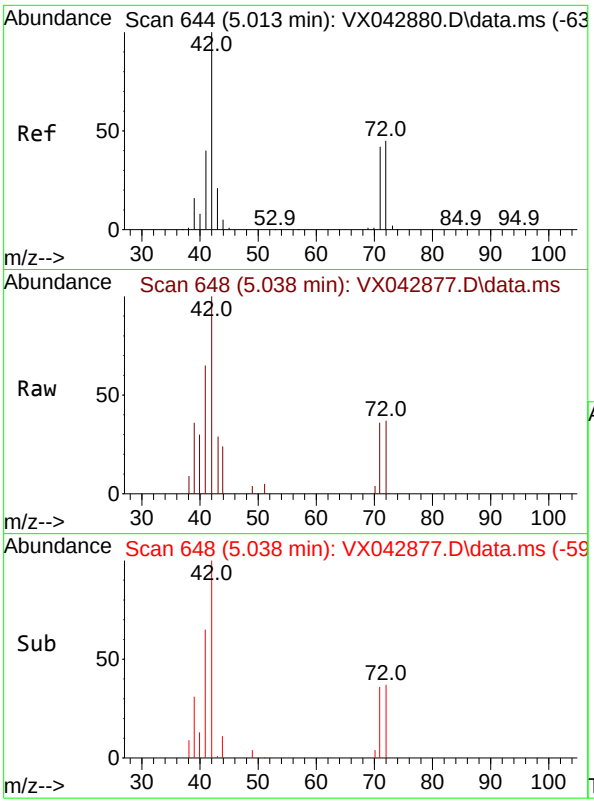


#28
Bromochloromethane
Concen: 1.148 ug/l
RT: 4.910 min Scan# 627
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 49 Resp: 1987

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	78.6	57.5	86.3

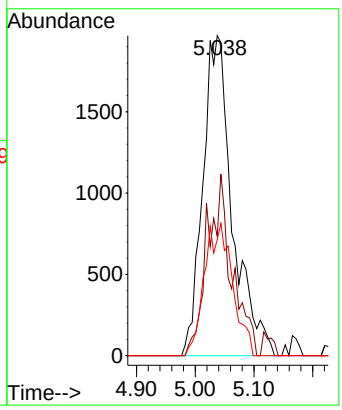




#29
Tetrahydrofuran
Concen: 5.106 ug/l
RT: 5.038 min Scan# 64
Delta R.T. 0.024 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 42 Resp: 691

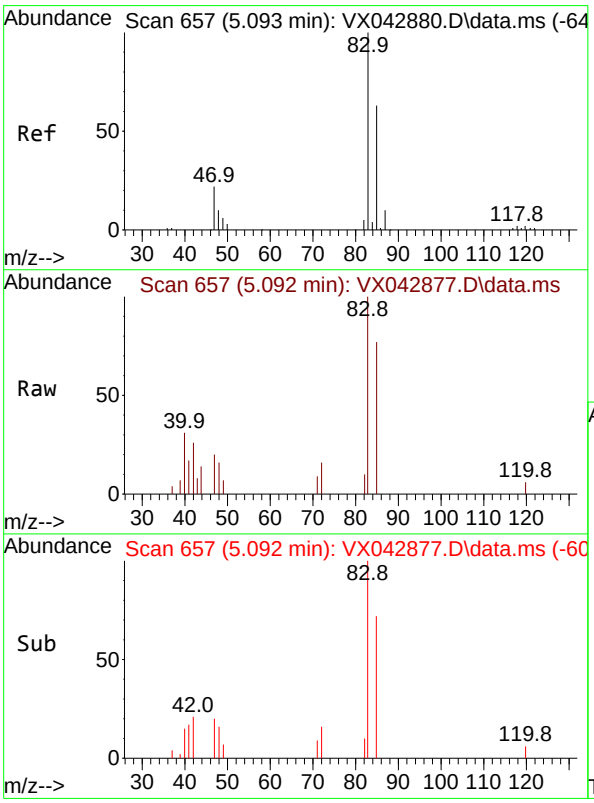
Ion	Ratio	Lower	Upper
42	100		
72	46.8	34.2	51.4
71	39.1	32.2	48.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

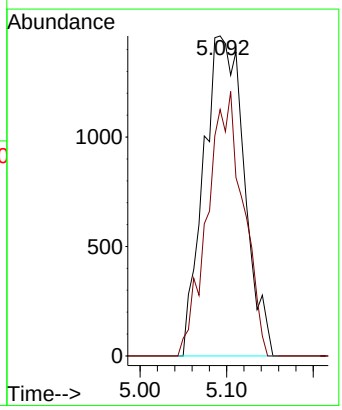
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

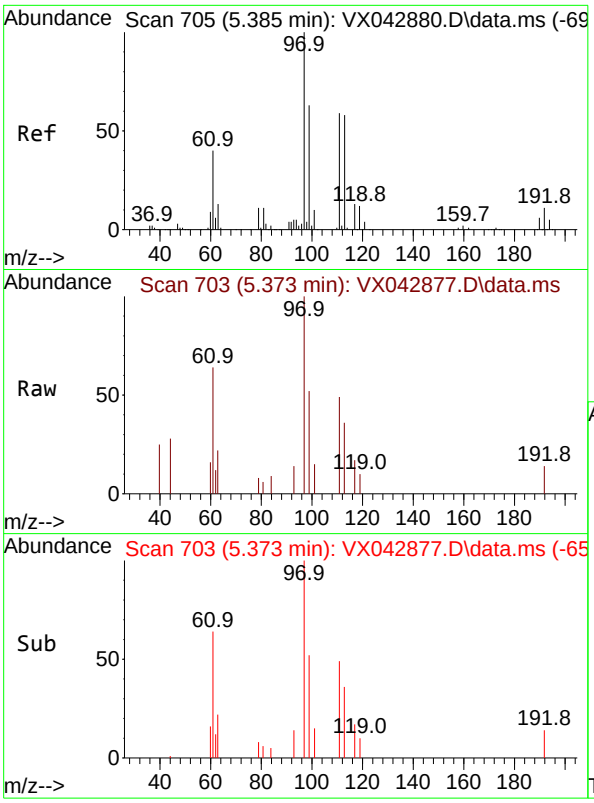


#30
Chloroform
Concen: 1.012 ug/l
RT: 5.092 min Scan# 657
Delta R.T. -0.000 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 83 Resp: 4777

Ion	Ratio	Lower	Upper
83	100		
85	77.0	50.3	75.5#





#32
1,1,1-Trichloroethane
Concen: 0.946 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

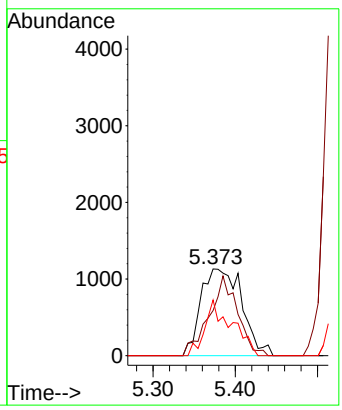
Tgt Ion: 97 Resp: 393

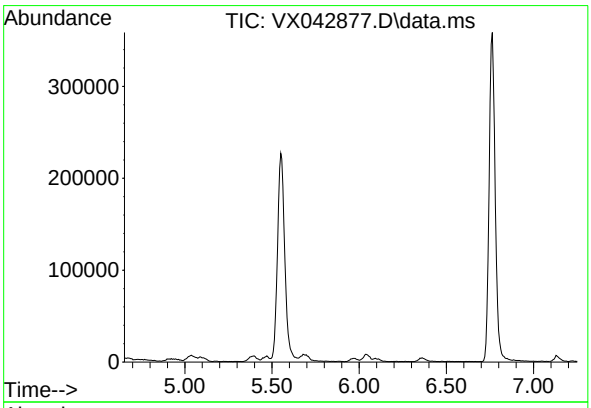
Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.1	76.7#
61	41.9	36.4	54.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024



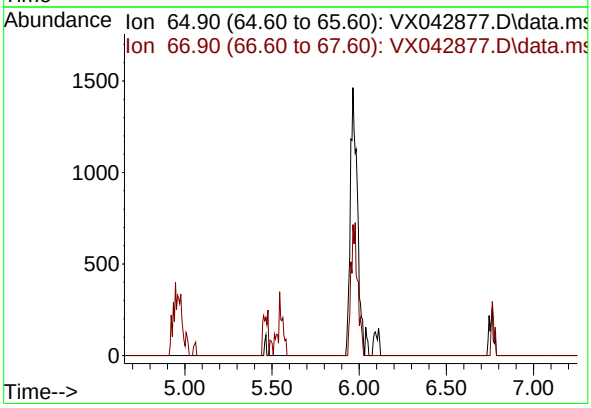


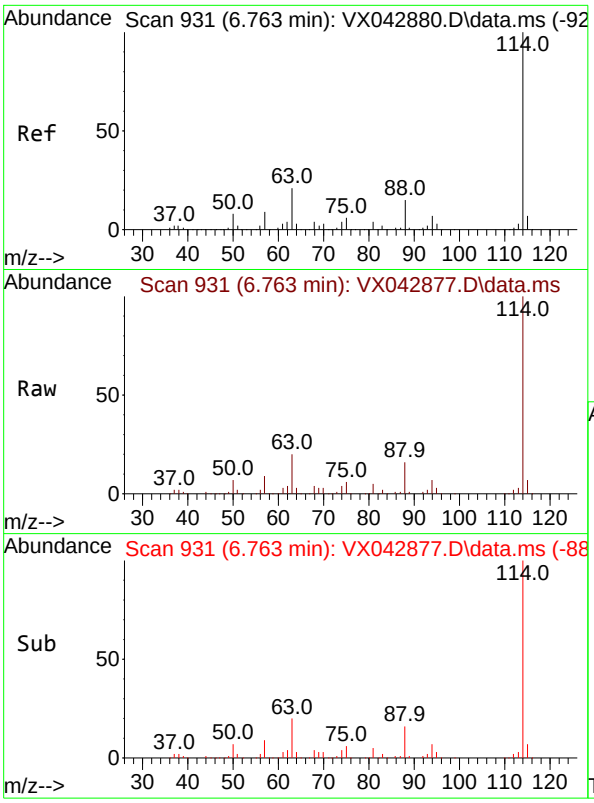
#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 5.95 min

Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 65

Sig	Exp Ratio
65	100
67	50.1





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

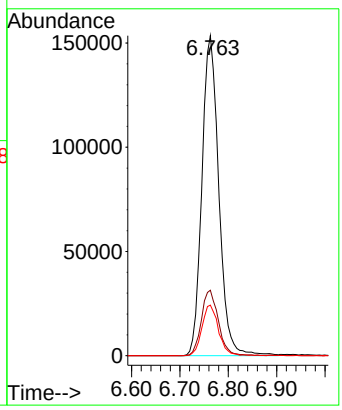
Tgt Ion:114 Resp: 37337

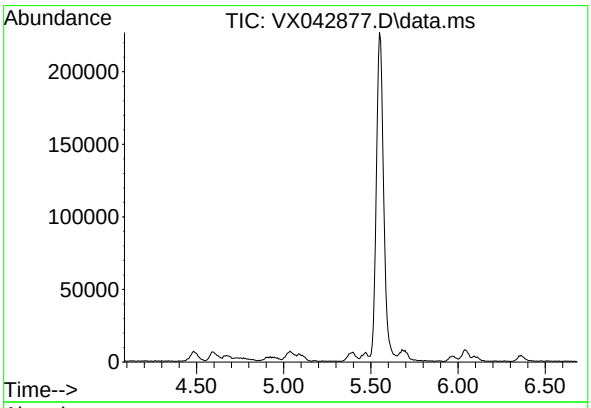
Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	45.0
88	15.8	0.0	36.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024



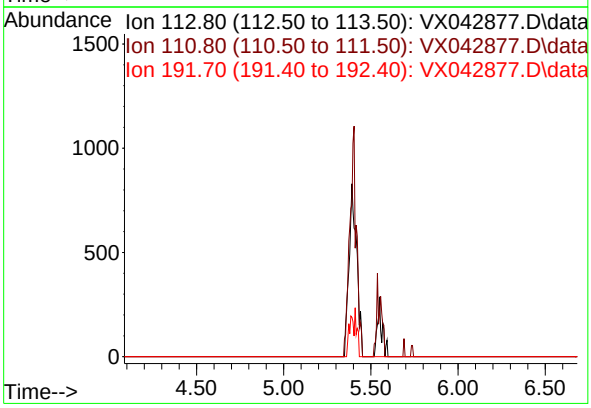


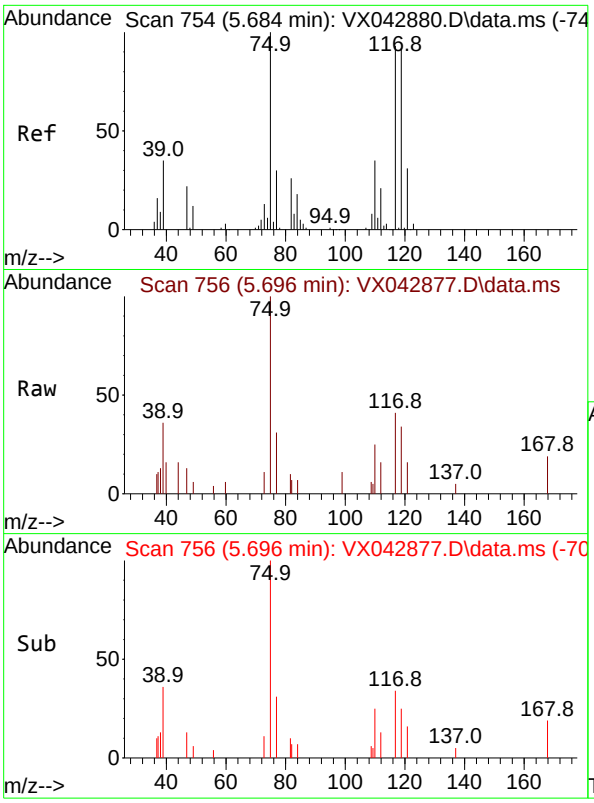
#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 5.39 min

Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 113

Sig	Exp Ratio
113	100
111	103.6
192	16.6

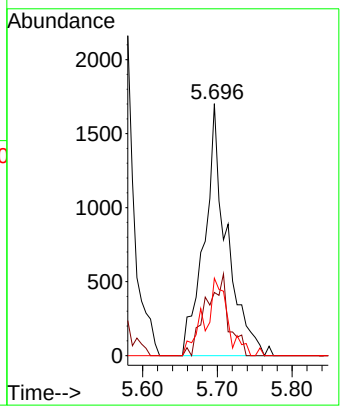




#36
1,1-Dichloropropene
Concen: 1.071 ug/l
RT: 5.696 min Scan# 7
Delta R.T. 0.012 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 75 Resp: 354

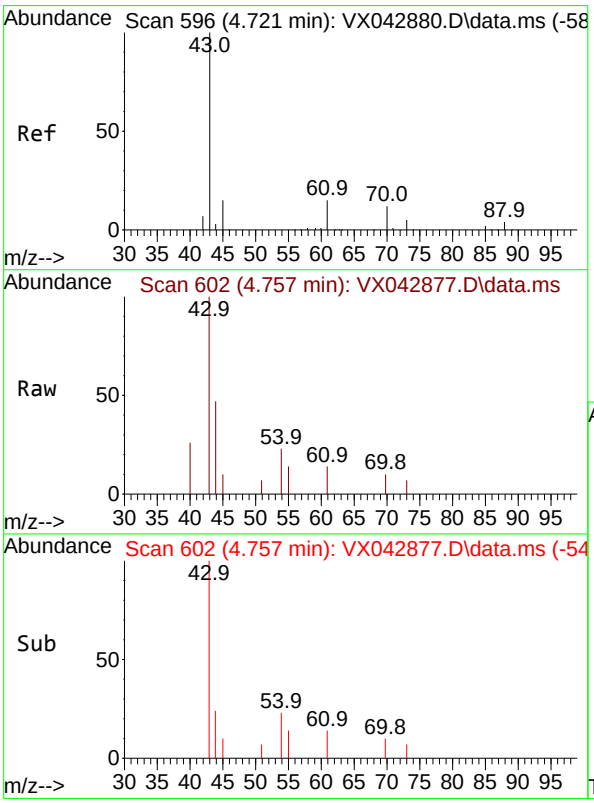
Ion	Ratio	Lower	Upper
75	100		
110	32.6	17.0	50.9
77	31.2	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

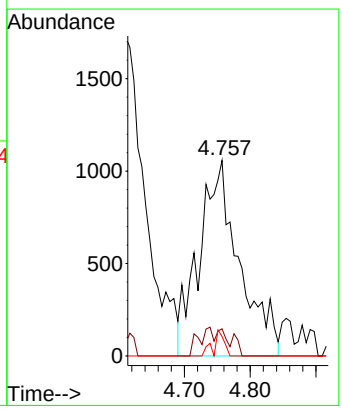
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

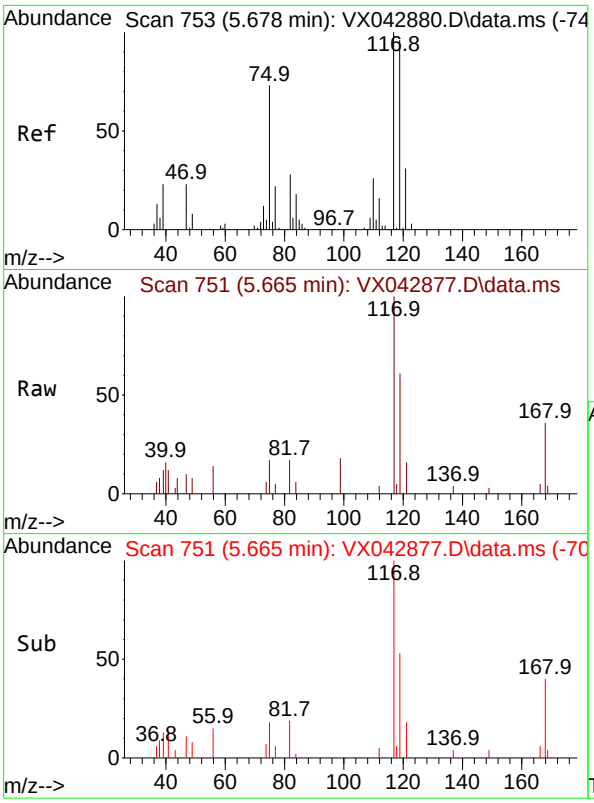


#37
Ethyl Acetate
Concen: 1.086 ug/l
RT: 4.757 min Scan# 602
Delta R.T. 0.036 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 43 Resp: 4497

Ion	Ratio	Lower	Upper
43	100		
61	5.4	10.6	16.0#
70	3.4	8.3	12.5#





#38
Carbon Tetrachloride
Concen: 1.063 ug/l
RT: 5.665 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

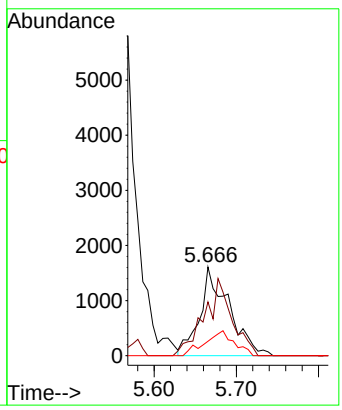
Tgt Ion:117 Resp: 397

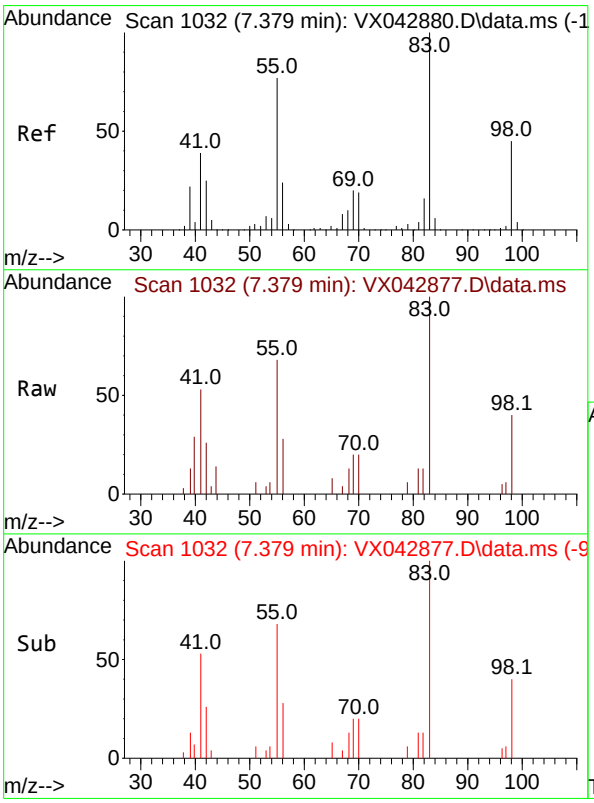
Ion	Ratio	Lower	Upper
117	100		
119	60.6	78.2	117.2#
121	16.2	24.4	36.6#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

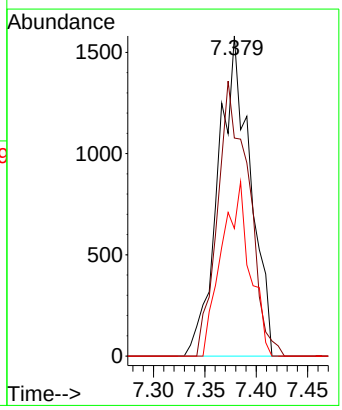


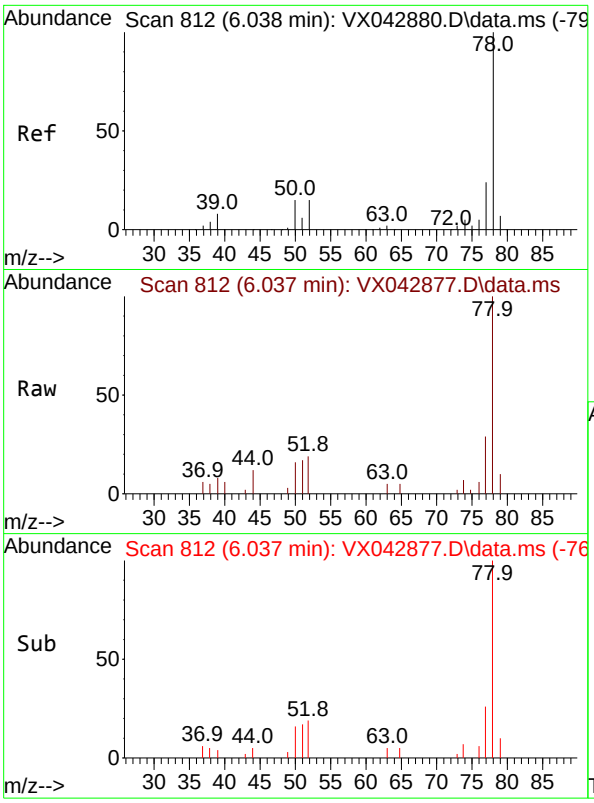


#39
Methylcyclohexane
Concen: 0.872 ug/l
RT: 7.379 min Scan# 1032
Delta R.T. -0.000 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 83 Resp: 3431

Ion	Ratio	Lower	Upper
83	100		
55	68.1	64.6	97.0
98	39.8	36.7	55.1

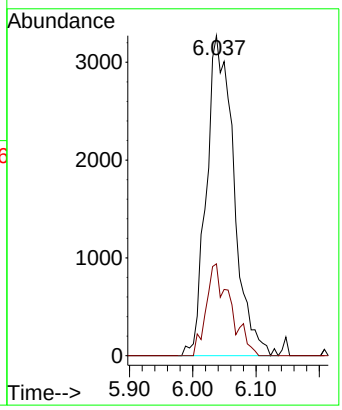




#40
Benzene
Concen: 0.958 ug/l
RT: 6.037 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 78 Resp: 984

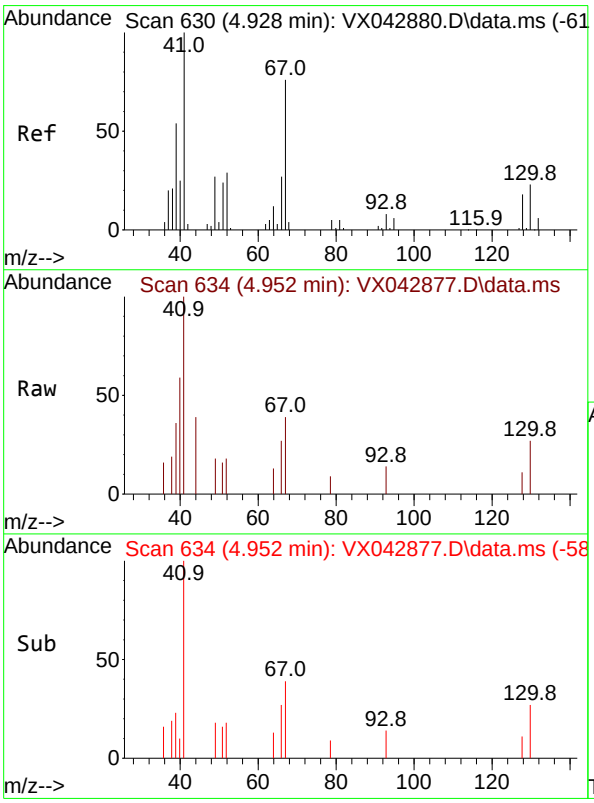
Ion	Ratio	Lower	Upper
78	100		
77	28.7	19.3	28.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

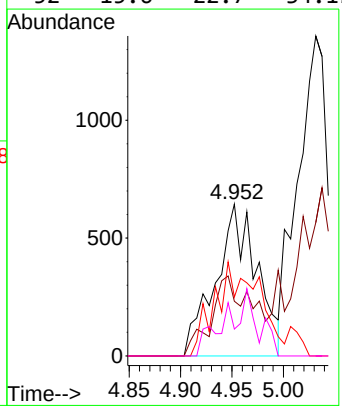
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

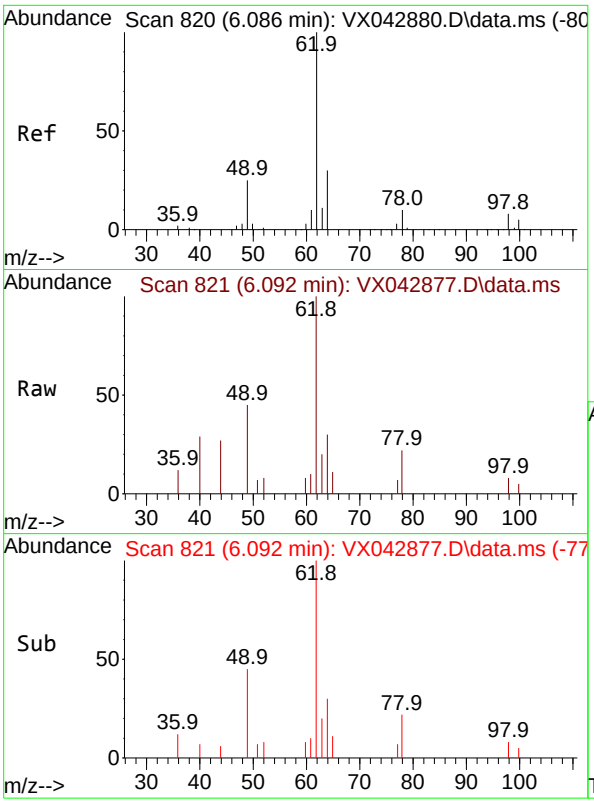


#41
Methacrylonitrile
Concen: 0.844 ug/l
RT: 4.952 min Scan# 634
Delta R.T. 0.024 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 41 Resp: 1801

Ion	Ratio	Lower	Upper
41	100		
39	34.0	45.2	67.8#
67	43.8	52.6	78.8#
52	15.6	22.7	34.1#





#42
1,2-Dichloroethane
Concen: 0.999 ug/l
RT: 6.092 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

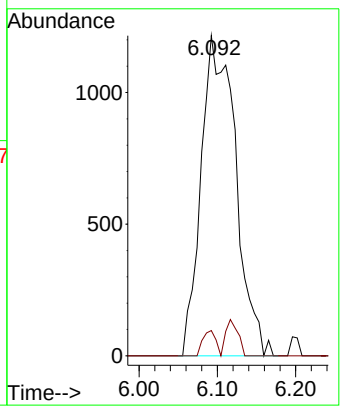
Tgt Ion: 62 Resp: 373

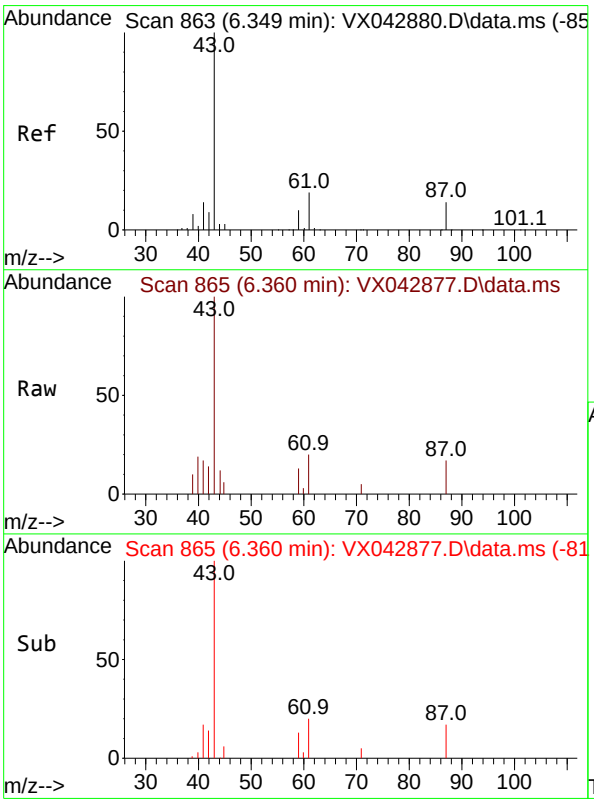
Ion	Ratio	Lower	Upper
62	100		
98	2.9	0.0	16.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

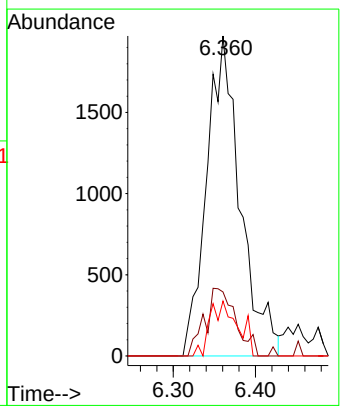


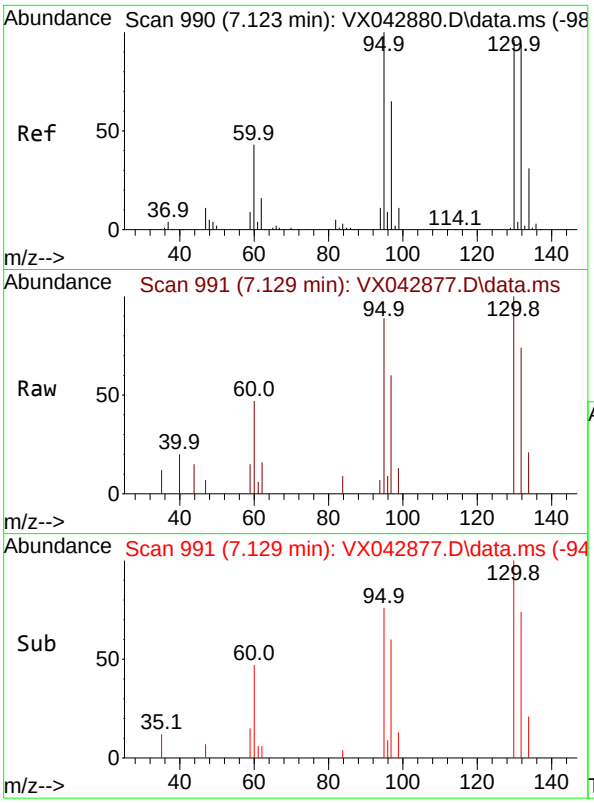


#43
Isopropyl Acetate
Concen: 0.914 ug/l
RT: 6.360 min Scan# 865
Delta R.T. 0.012 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 43 Resp: 5598

Ion	Ratio	Lower	Upper
43	100		
61	19.4	15.2	22.8
87	5.3	9.8	14.6#

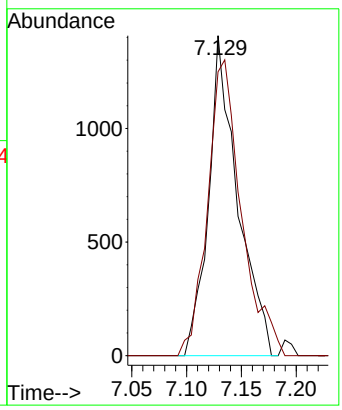




#44
Trichloroethene
Concen: 1.007 ug/l
RT: 7.129 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion:130 Resp: 259

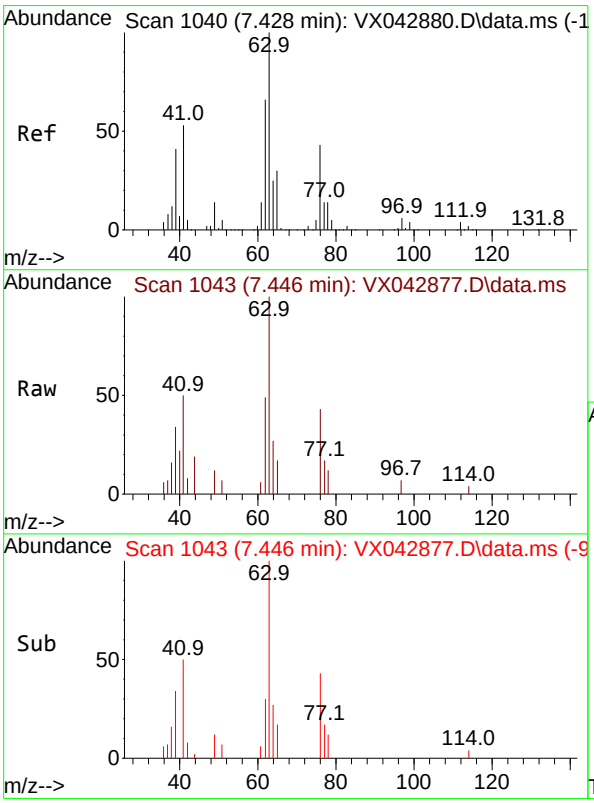
Ion	Ratio	Lower	Upper
130	100		
95	88.7	0.0	204.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

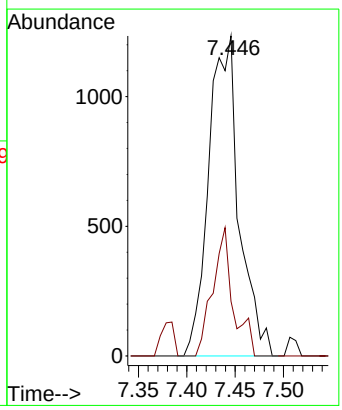
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

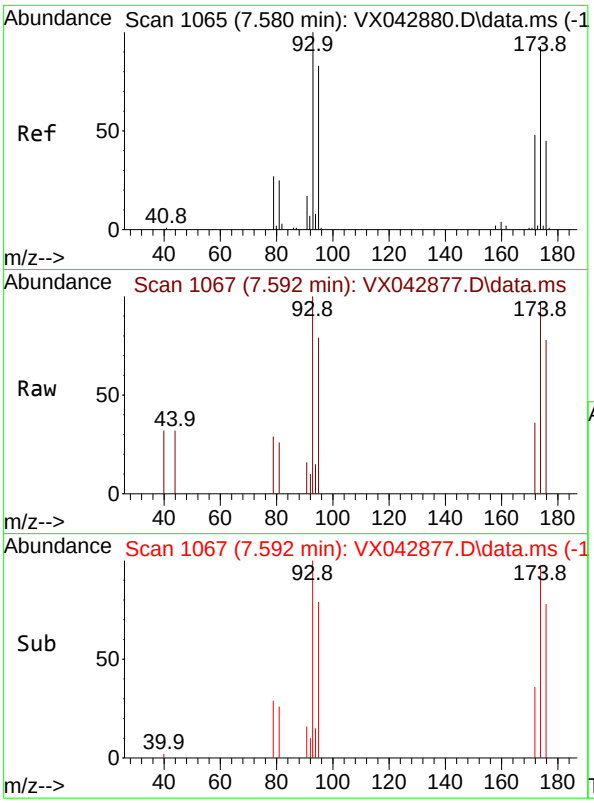


#45
1,2-Dichloropropane
Concen: 1.030 ug/l
RT: 7.446 min Scan# 1043
Delta R.T. 0.018 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 63 Resp: 2685

Ion	Ratio	Lower	Upper
63	100		
65	17.1	24.3	36.5#

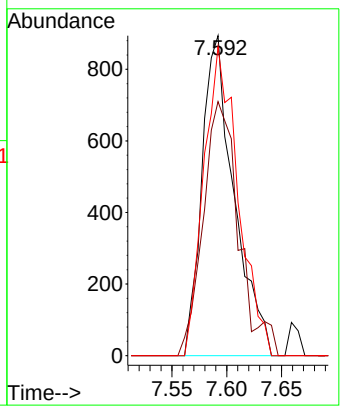




#46
Dibromomethane
Concen: 0.953 ug/l
RT: 7.592 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 93 Resp: 182

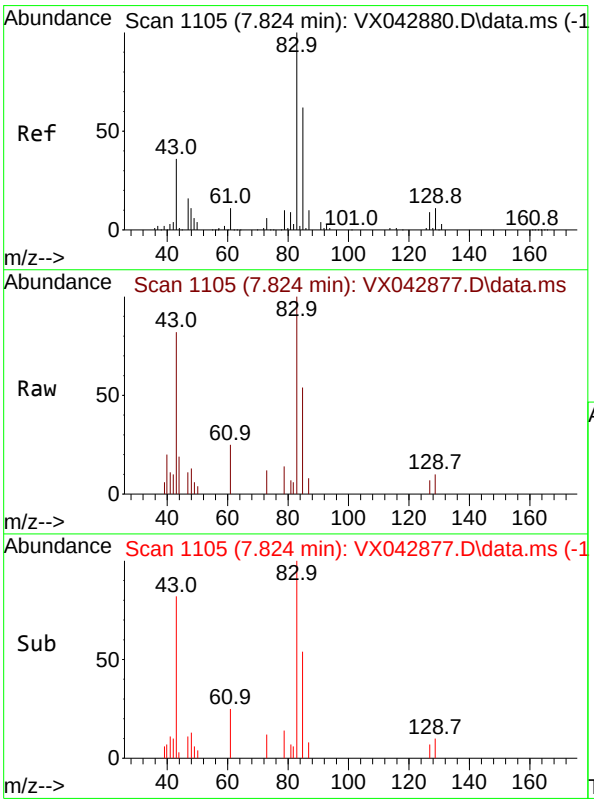
Ion	Ratio	Lower	Upper
93	100		
95	87.5	66.6	100.0
174	103.0	69.4	104.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

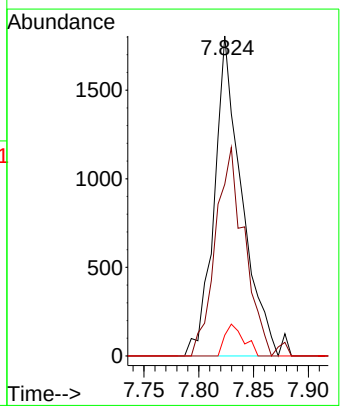
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

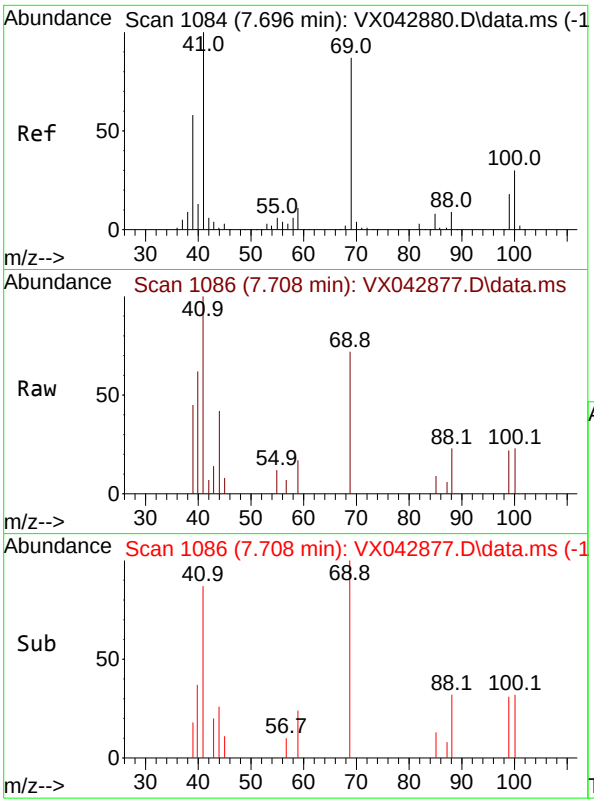


#47
Bromodichloromethane
Concen: 0.886 ug/l
RT: 7.824 min Scan# 1105
Delta R.T. -0.000 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 83 Resp: 3150

Ion	Ratio	Lower	Upper
83	100		
85	53.7	49.8	74.6
127	6.5	7.1	10.7#

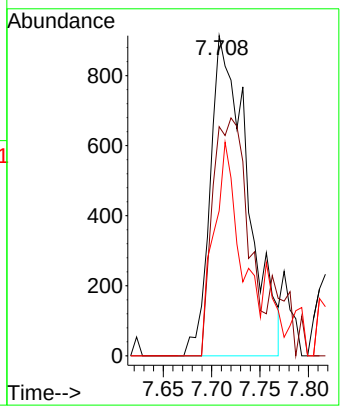




#48
Methyl methacrylate
Concen: 0.836 ug/l
RT: 7.708 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 41 Resp: 245

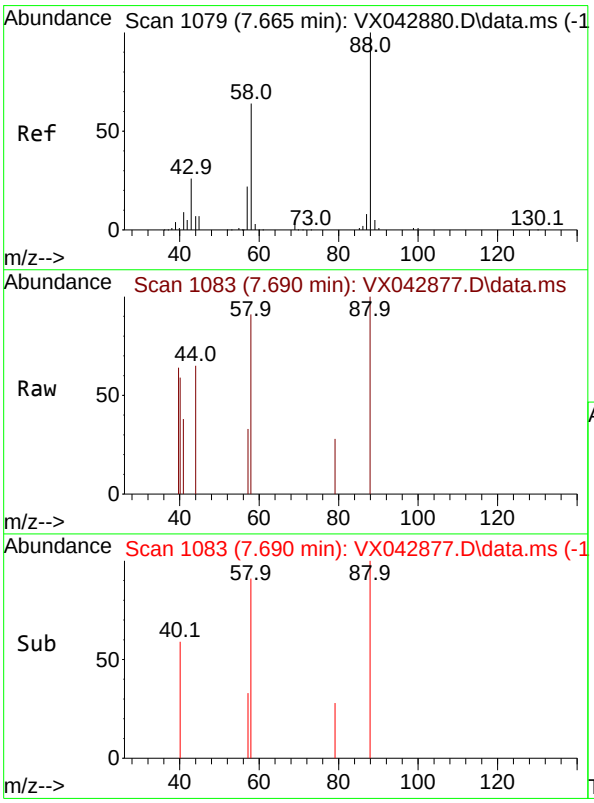
Ion	Ratio	Lower	Upper
41	100		
69	70.5	59.2	88.8
39	48.8	47.7	71.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

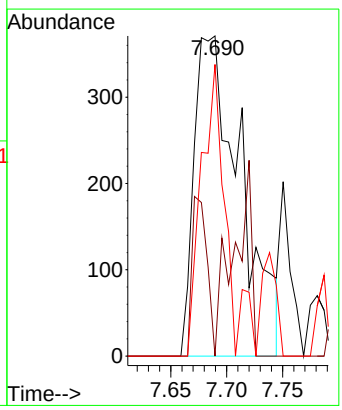
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

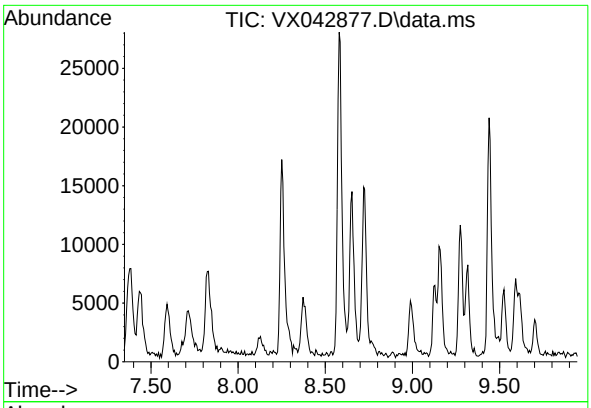


#49
1,4-Dioxane
Concen: 25.265 ug/l m
RT: 7.690 min Scan# 1083
Delta R.T. 0.025 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 88 Resp: 1068

Ion	Ratio	Lower	Upper
88	100		
43	15.9	0.0	0.0#
58	48.6	60.1	90.1#





#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 8.65 min

Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

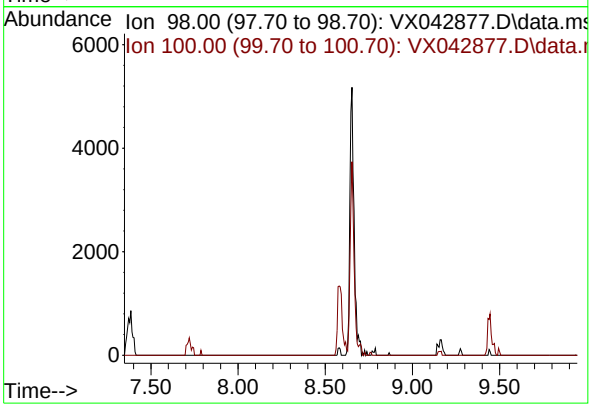
Tgt Ion: 98

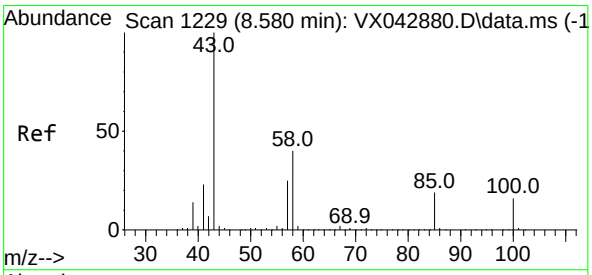
Sig	Exp Ratio
98	100
100	66.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

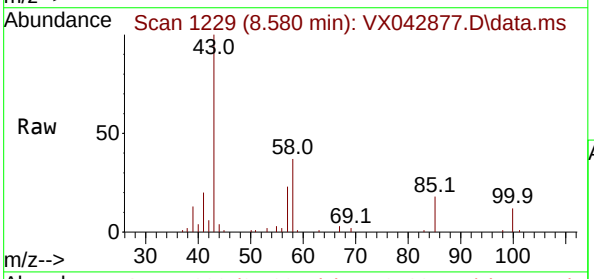


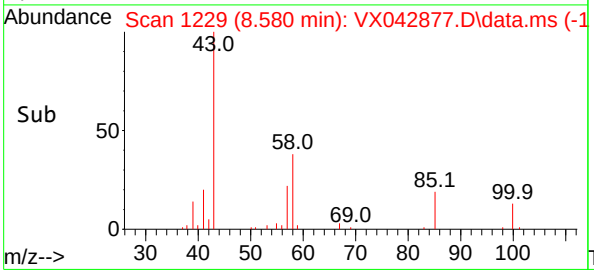


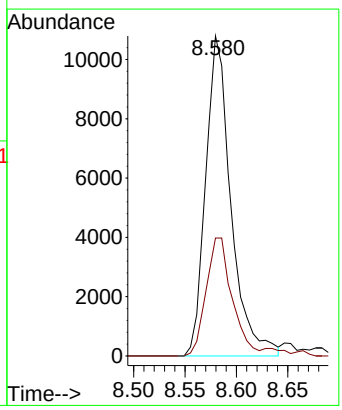
#51
4-Methyl-2-Pentanone
Concen: 4.504 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. -0.000 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

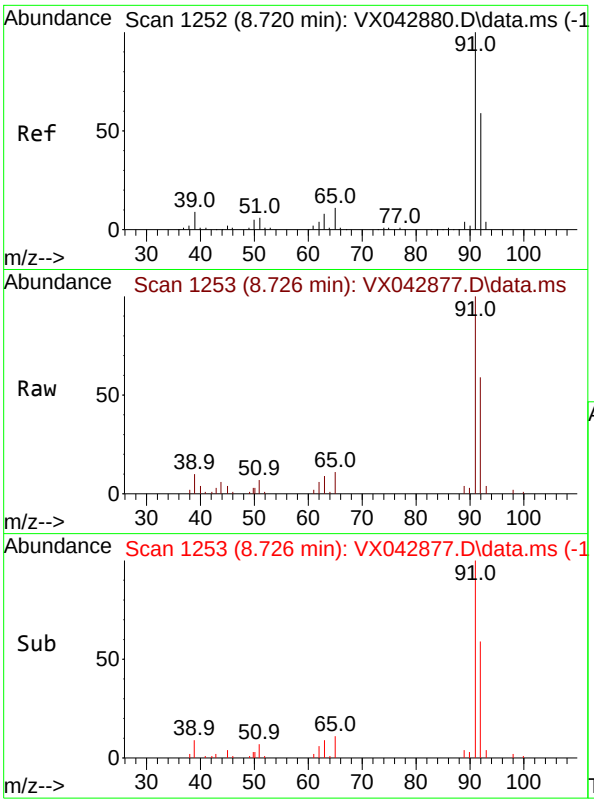
Tgt Ion: 43 Resp: 18476

Ion	Ratio	Lower	Upper
43	100		
58	37.8	30.4	45.6









#52
Toluene
Concen: 0.877 ug/l
RT: 8.726 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

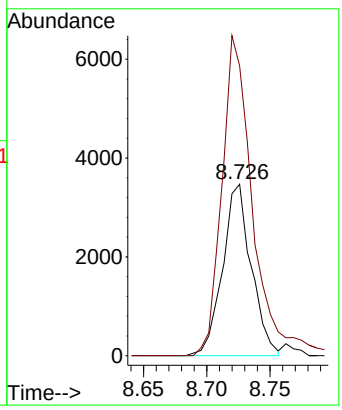
Tgt Ion: 92 Resp: 546

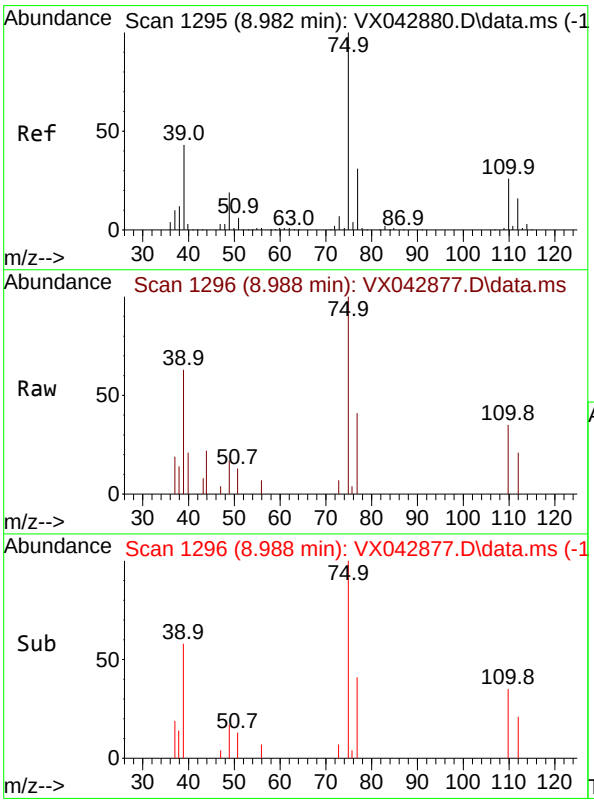
Ion	Ratio	Lower	Upper
92	100		
91	200.2	134.2	201.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

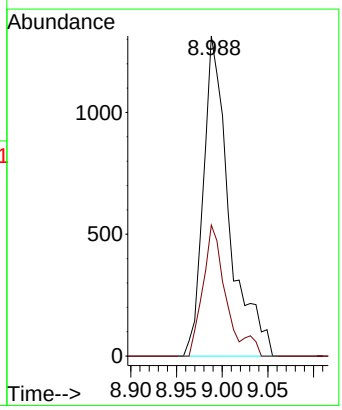


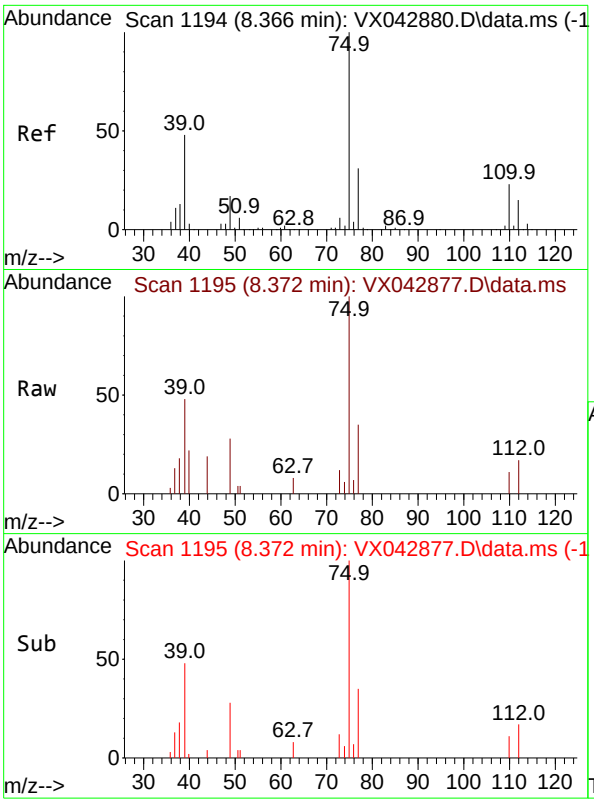


#53
t-1,3-Dichloropropene
Concen: 0.787 ug/l
RT: 8.988 min Scan# 1296
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 75 Resp: 2586

Ion	Ratio	Lower	Upper
75	100		
77	40.9	25.7	38.5#

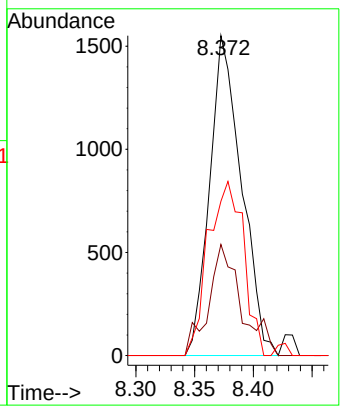




#54
cis-1,3-Dichloropropene
Concen: 0.808 ug/l
RT: 8.372 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 75 Resp: 293

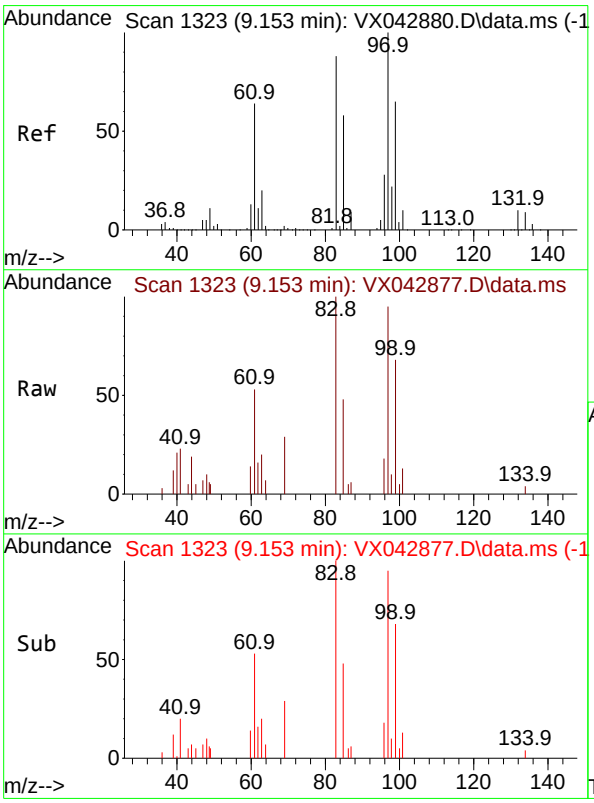
Ion	Ratio	Lower	Upper
75	100		
77	34.8	25.3	37.9
39	48.2	46.7	70.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

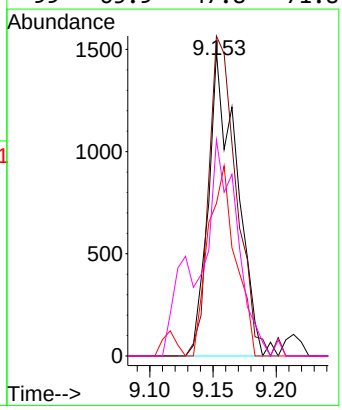
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

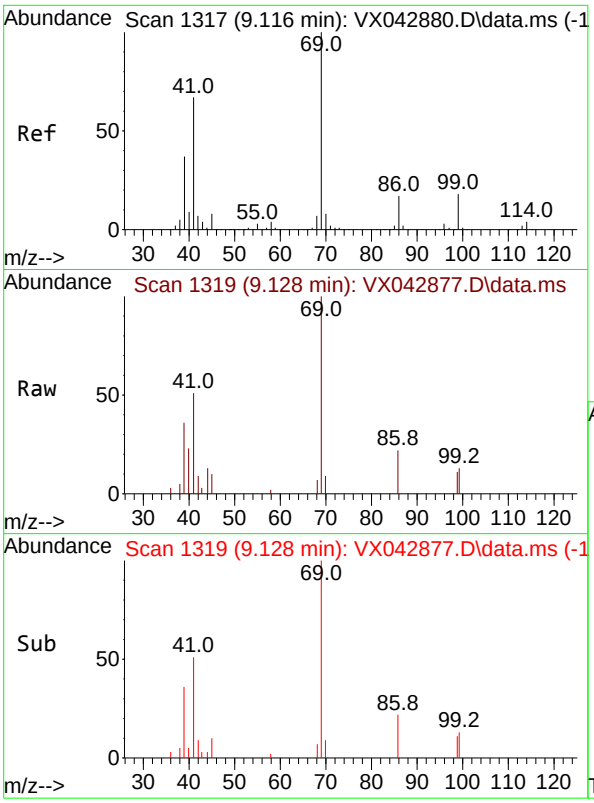


#55
1,1,2-Trichloroethane
Concen: 0.921 ug/l
RT: 9.153 min Scan# 1323
Delta R.T. -0.000 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 97 Resp: 2332

Ion	Ratio	Lower	Upper
97	100		
83	105.2	65.8	98.8#
85	50.1	41.6	62.4
99	65.9	47.8	71.8

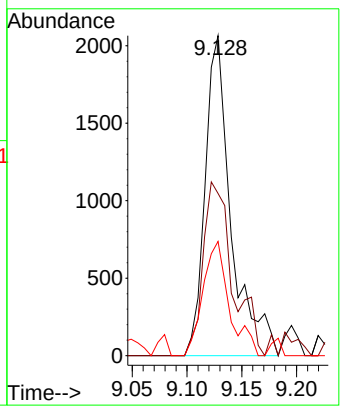




#56
Ethyl methacrylate
Concen: 0.838 ug/l
RT: 9.128 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 69 Resp: 341

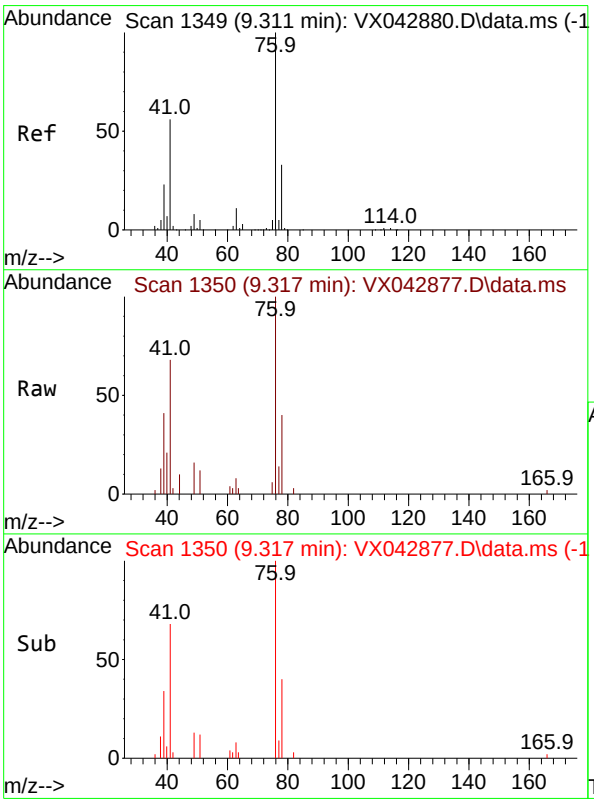
Ion	Ratio	Lower	Upper
69	100		
41	61.4	56.8	85.2
39	36.0	32.0	48.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

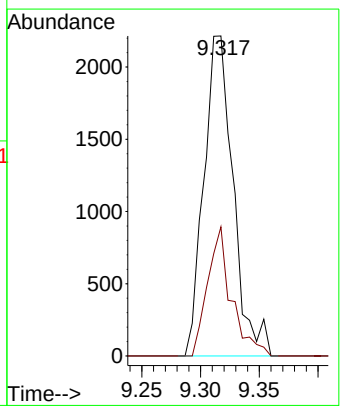
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

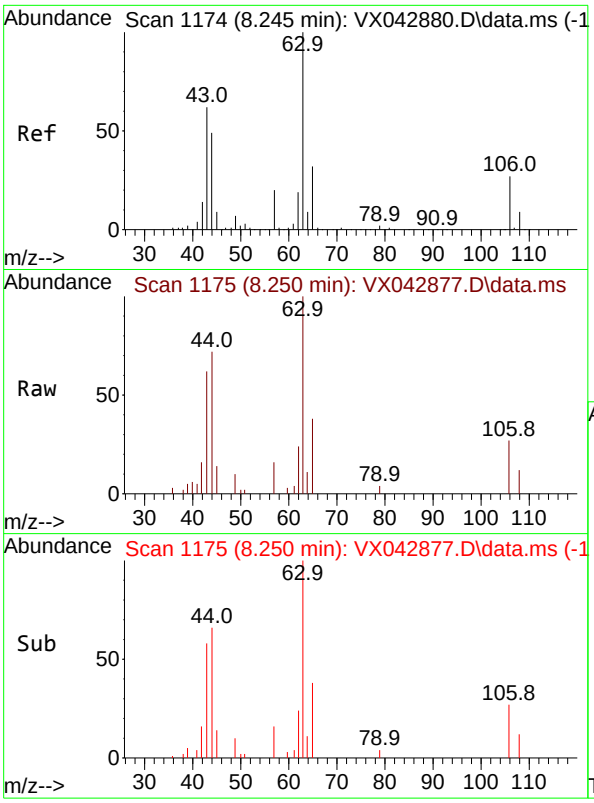


#57
1,3-Dichloropropane
Concen: 0.928 ug/l
RT: 9.317 min Scan# 1350
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 76 Resp: 3850

Ion	Ratio	Lower	Upper
76	100		
78	32.7	26.1	39.1





#58
2-Chloroethyl Vinyl ether
Concen: 4.030 ug/l
RT: 8.250 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

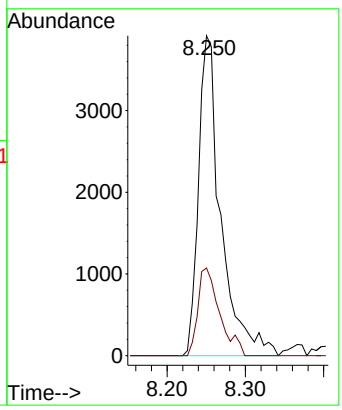
Tgt Ion: 63 Resp: 774

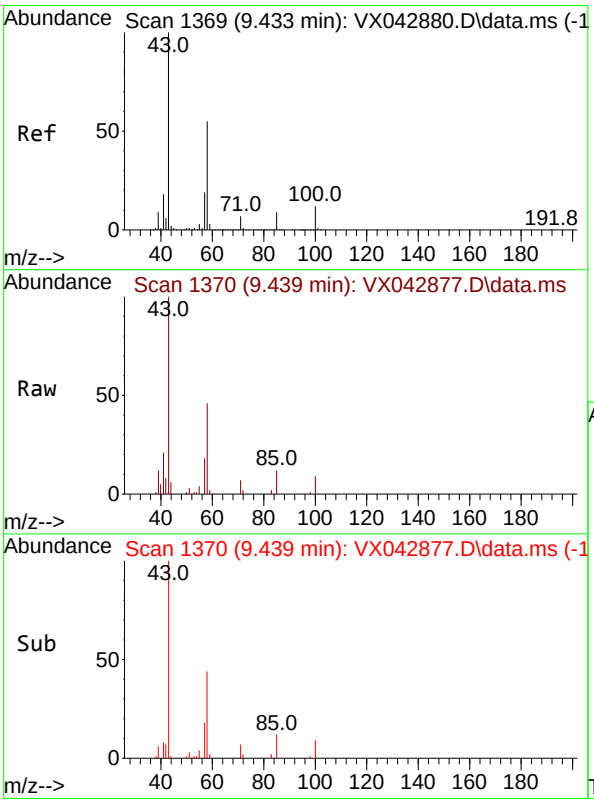
Ion	Ratio	Lower	Upper
63	100		
106	26.7	22.5	33.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

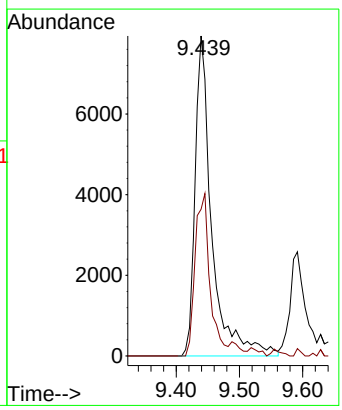


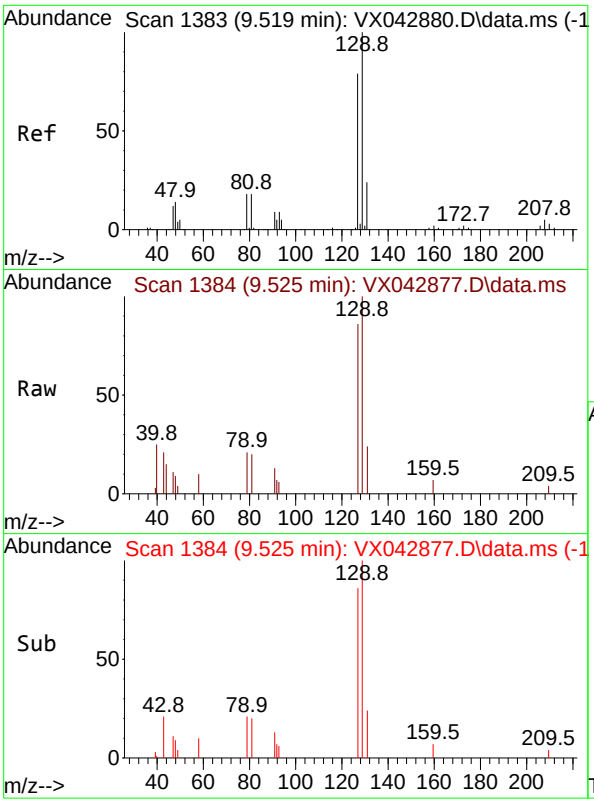


#59
2-Hexanone
Concen: 4.579 ug/l
RT: 9.439 min Scan# 1370
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 43 Resp: 14557

Ion	Ratio	Lower	Upper
43	100		
58	45.0	26.2	78.5

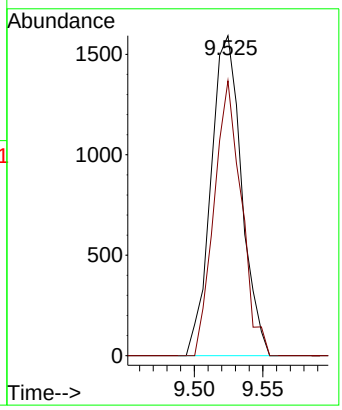




#60
Dibromochloromethane
Concen: 0.892 ug/l
RT: 9.525 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion:129 Resp: 248

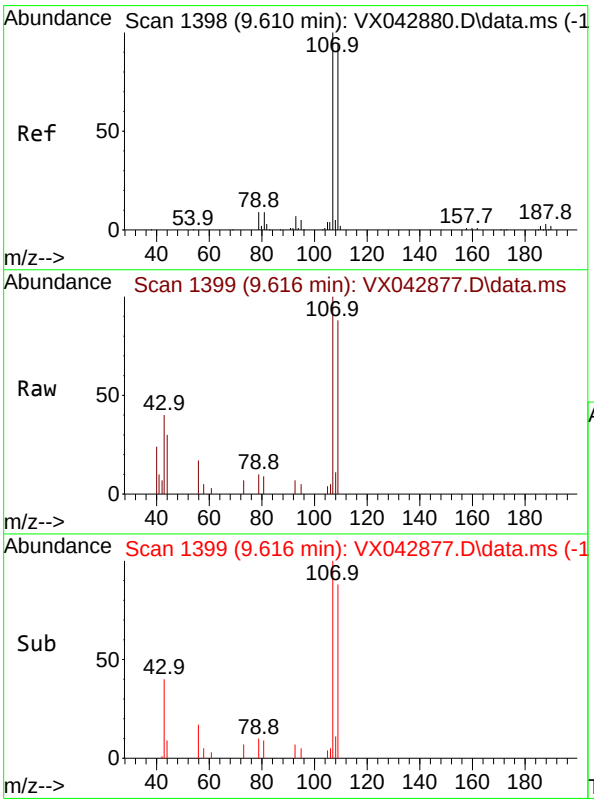
Ion	Ratio	Lower	Upper
129	100		
127	76.5	38.8	116.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

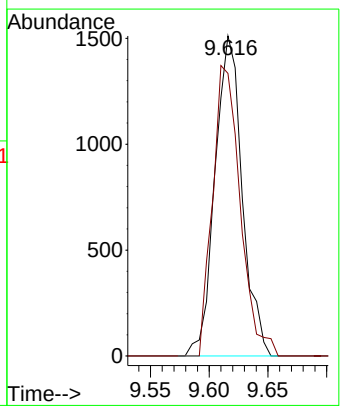
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

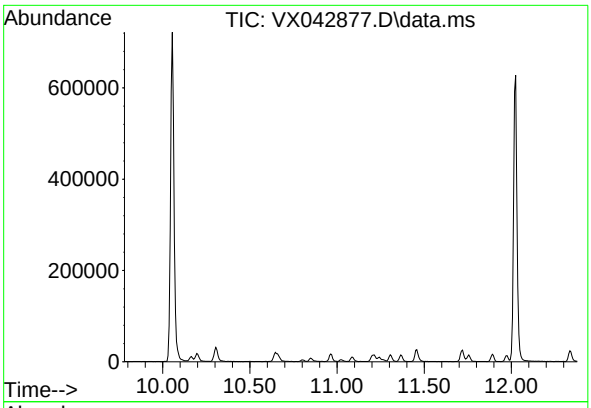


#61
1,2-Dibromoethane
Concen: 0.911 ug/l
RT: 9.616 min Scan# 1399
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion:107 Resp: 2439

Ion	Ratio	Lower	Upper
107	100		
109	92.0	75.2	112.8





#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 11.08 min

Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

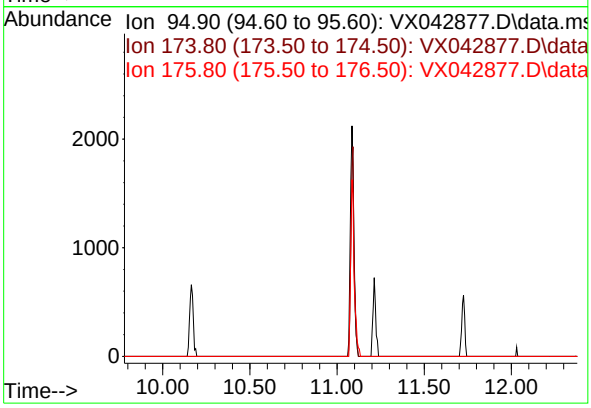
Tgt Ion: 95

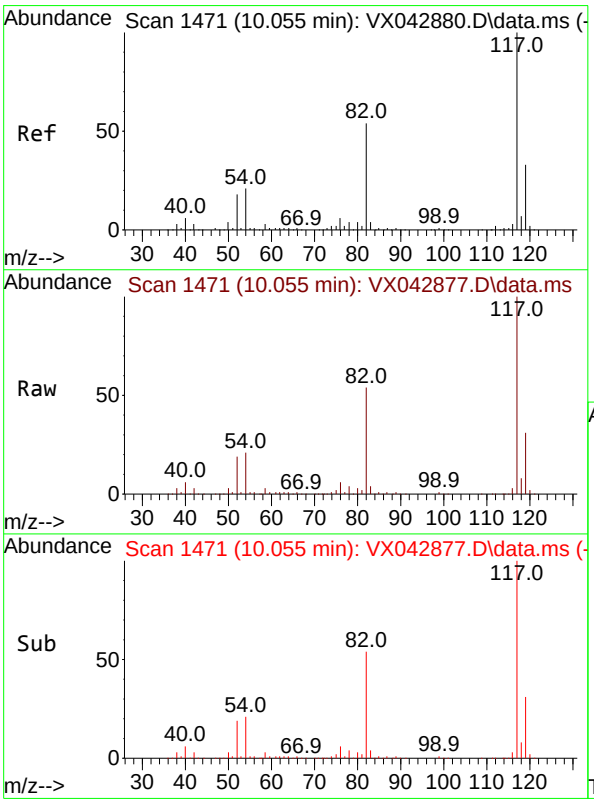
Sig	Exp Ratio
95	100
174	67.8
176	65.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

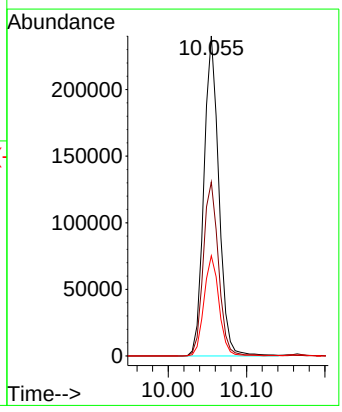


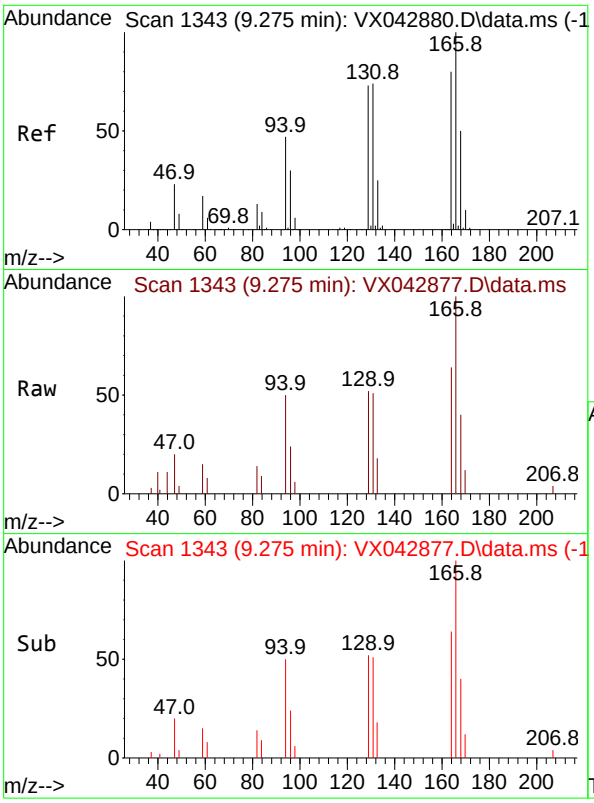


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion:117 Resp: 318130

Ion	Ratio	Lower	Upper
117	100		
82	54.3	46.2	69.4
119	31.3	25.5	38.3

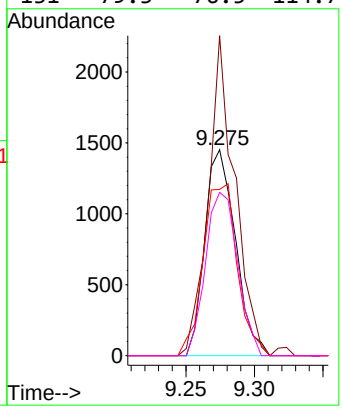




#64
Tetrachloroethene
Concen: 1.019 ug/l
RT: 9.275 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion:164 Resp: 225

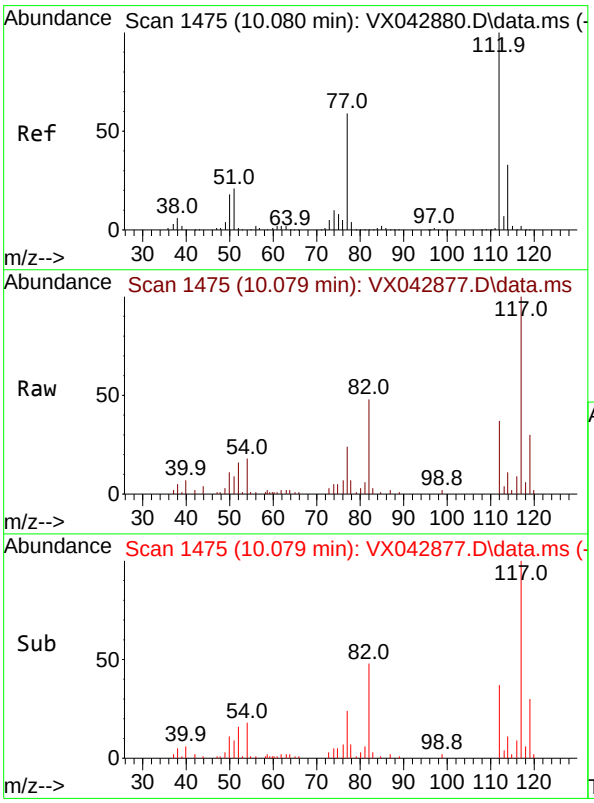
Ion	Ratio	Lower	Upper
164	100		
166	155.4	102.7	154.1
129	80.7	80.4	120.6
131	79.3	76.5	114.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

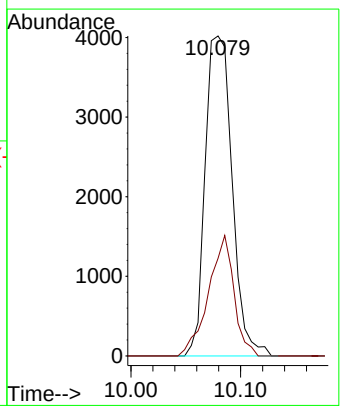
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

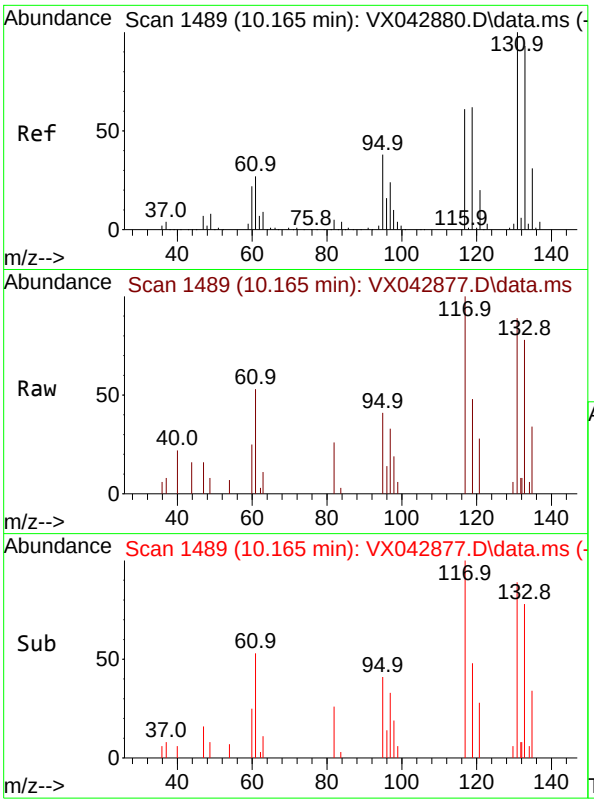


#65
Chlorobenzene
Concen: 1.019 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion:112 Resp: 6881

Ion	Ratio	Lower	Upper
112	100		
114	30.5	25.7	38.5

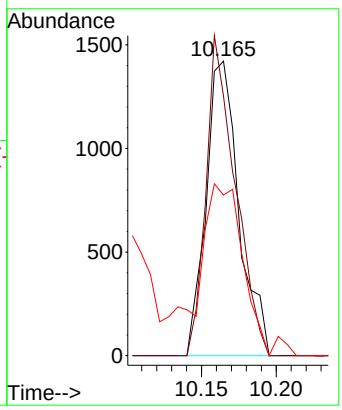




#66
1,1,1,2-Tetrachloroethane
Concen: 0.932 ug/l
RT: 10.165 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion:131 Resp: 216

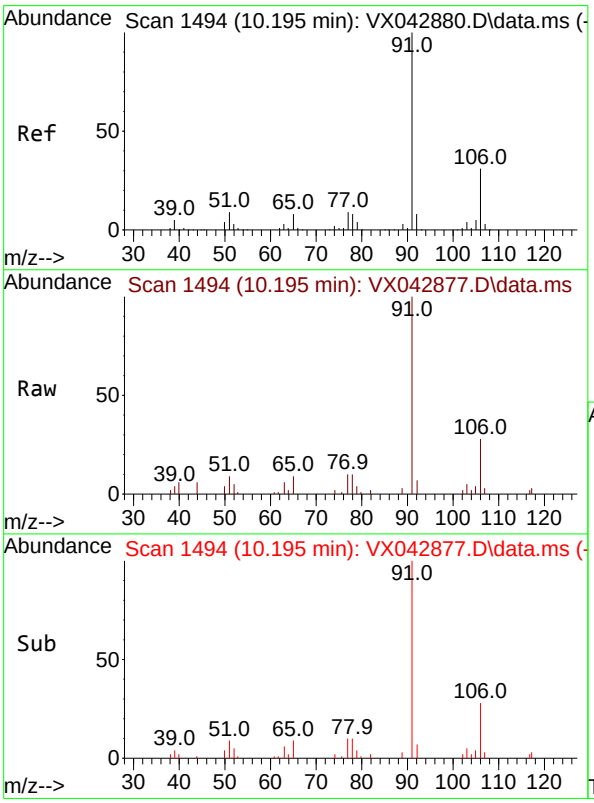
Ion	Ratio	Lower	Upper
131	100		
133	96.7	47.1	141.4
119	0.0	32.2	96.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

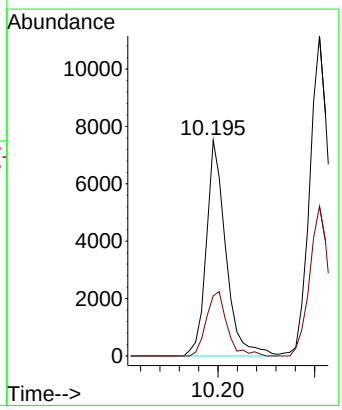
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

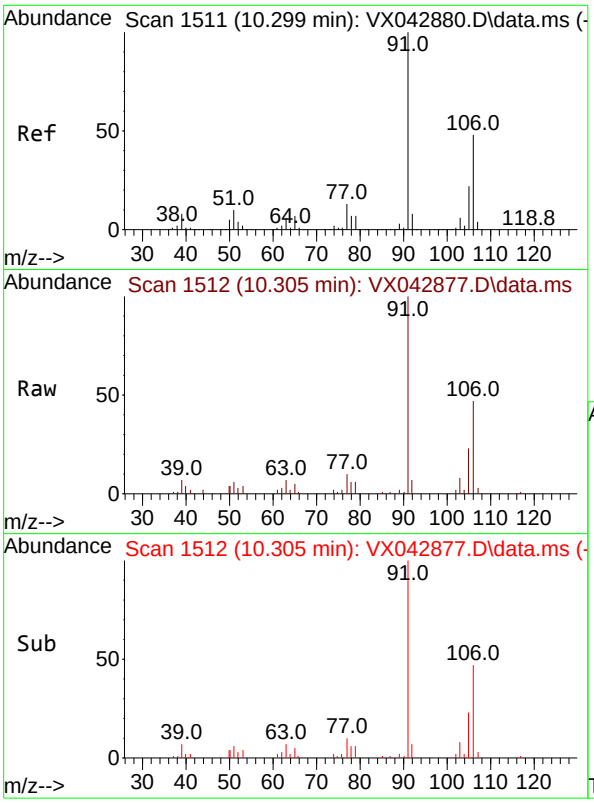


#67
Ethyl Benzene
Concen: 0.930 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. -0.000 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 91 Resp: 10561

Ion	Ratio	Lower	Upper
91	100		
106	27.9	24.9	37.3





#68
m/p-Xylenes
Concen: 1.764 ug/l
RT: 10.305 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

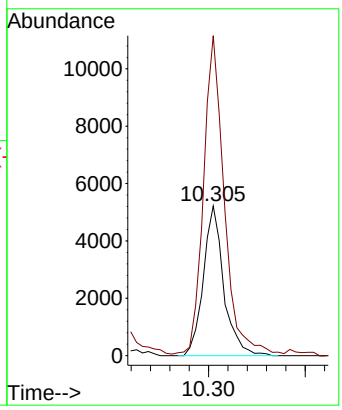
Tgt Ion:106 Resp: 764

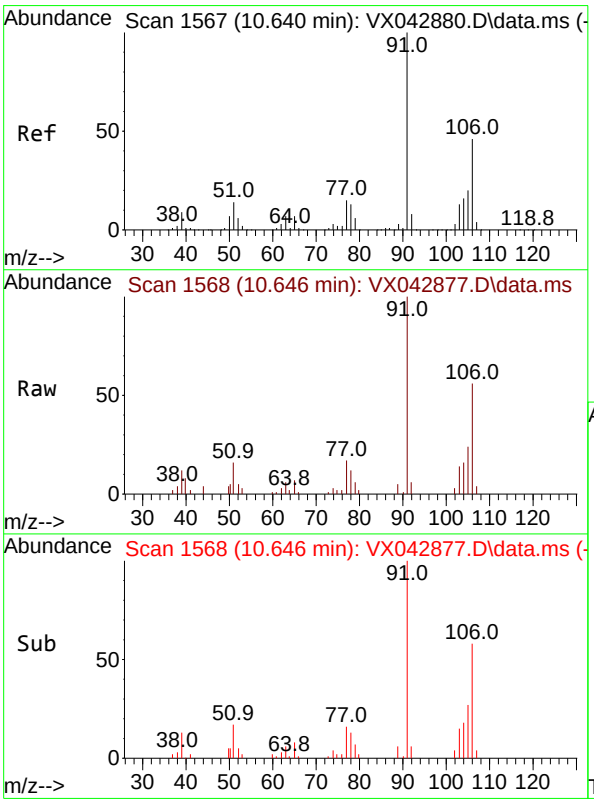
Ion	Ratio	Lower	Upper
106	100		
91	215.4	165.5	248.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

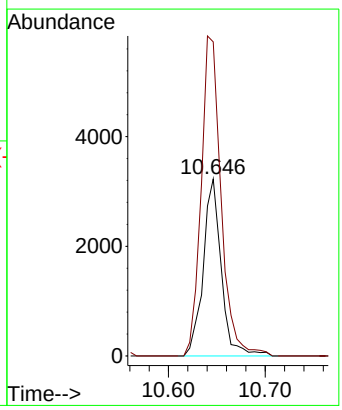


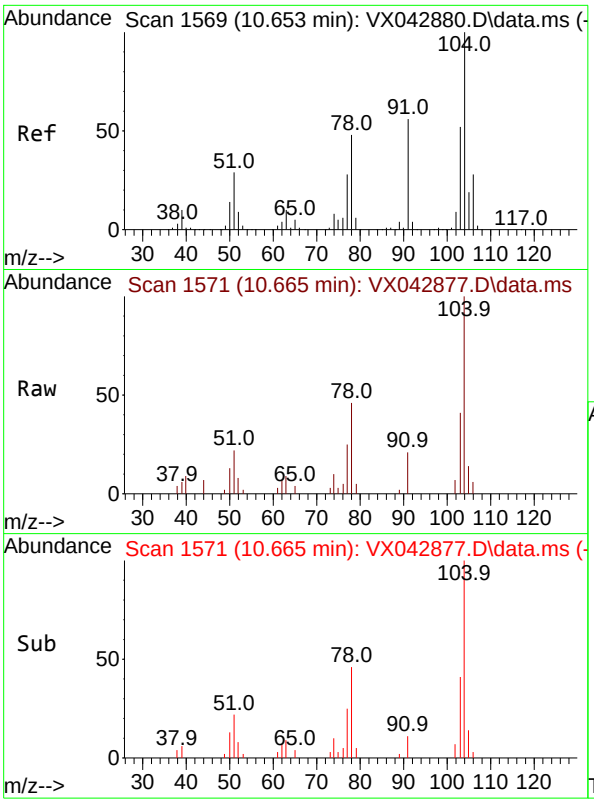


#69
o-Xylene
Concen: 0.970 ug/l
RT: 10.646 min Scan# 1568
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion:106 Resp: 4214

Ion	Ratio	Lower	Upper
106	100		
91	199.1	108.9	326.8

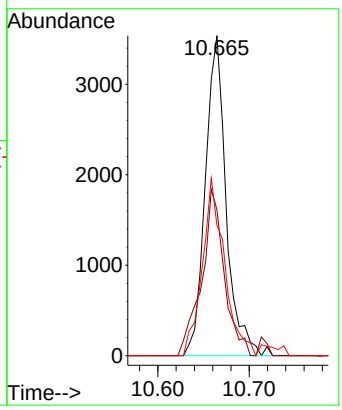




#70
Styrene
Concen: 0.802 ug/l
RT: 10.665 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion:104 Resp: 560

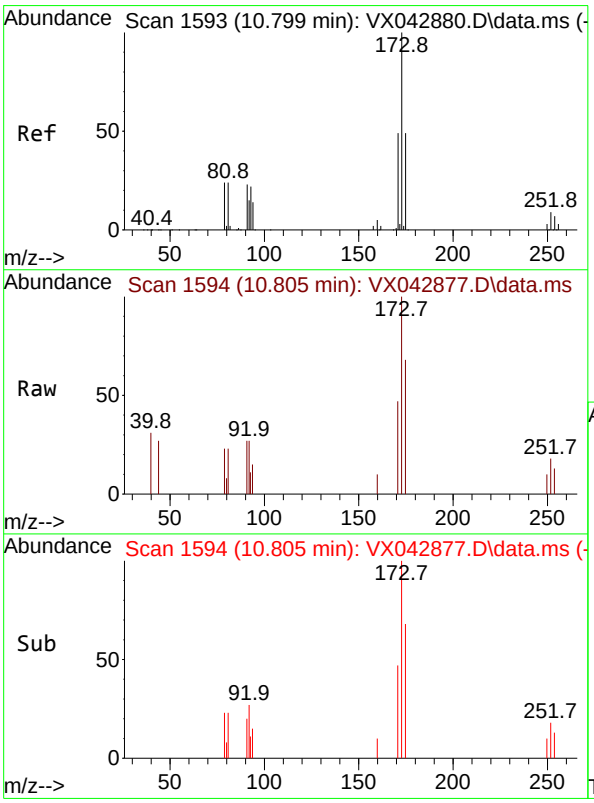
Ion	Ratio	Lower	Upper
104	100		
78	56.3	43.6	65.4
103	59.0	43.6	65.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

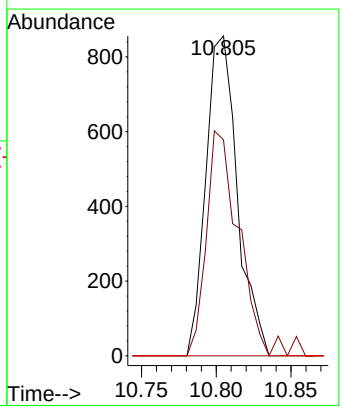
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

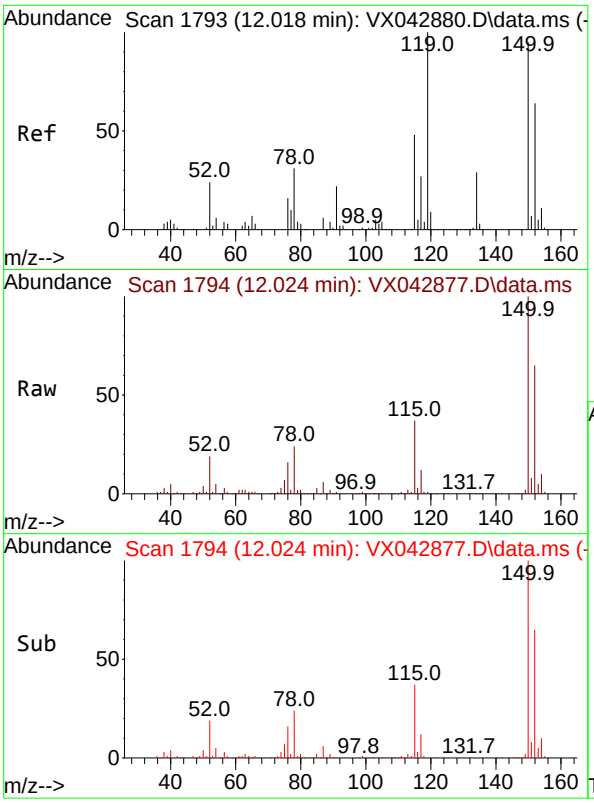


#71
Bromoform
Concen: 1.460 ug/l
RT: 10.805 min Scan# 1594
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion:173 Resp: 1254

Ion	Ratio	Lower	Upper
173	100		
175	70.7	24.1	72.4
254	0.0	0.0	0.0

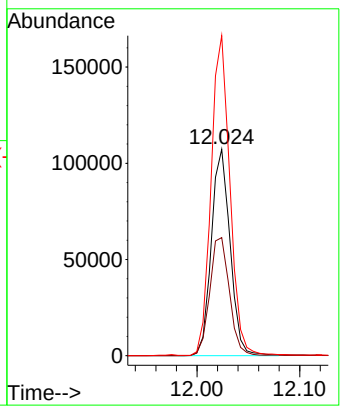




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion:152 Resp: 13589

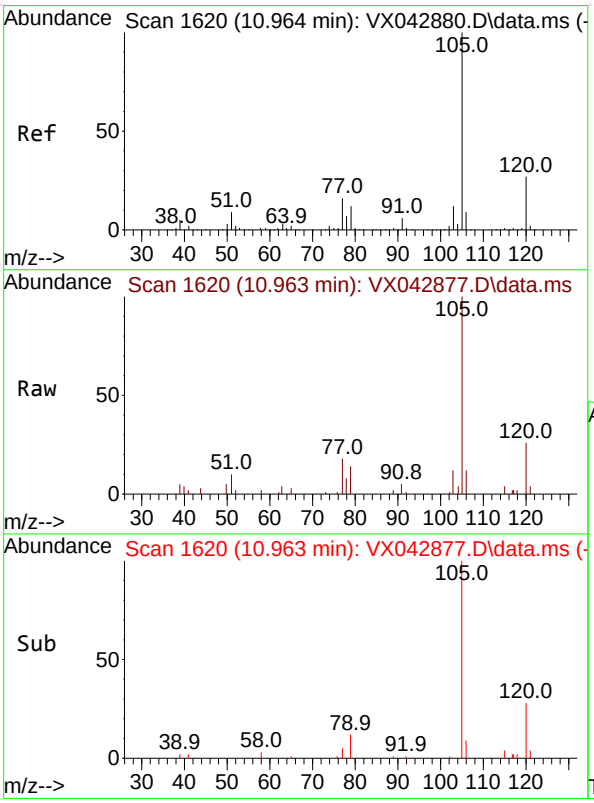
Ion	Ratio	Lower	Upper
152	100		
115	60.2	43.3	129.9
150	154.9	0.0	345.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

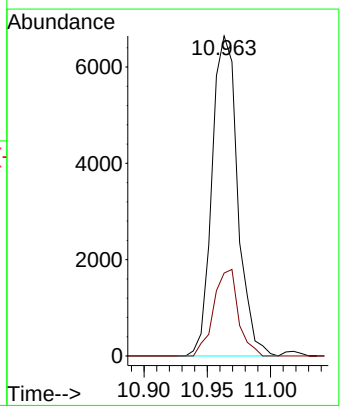
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

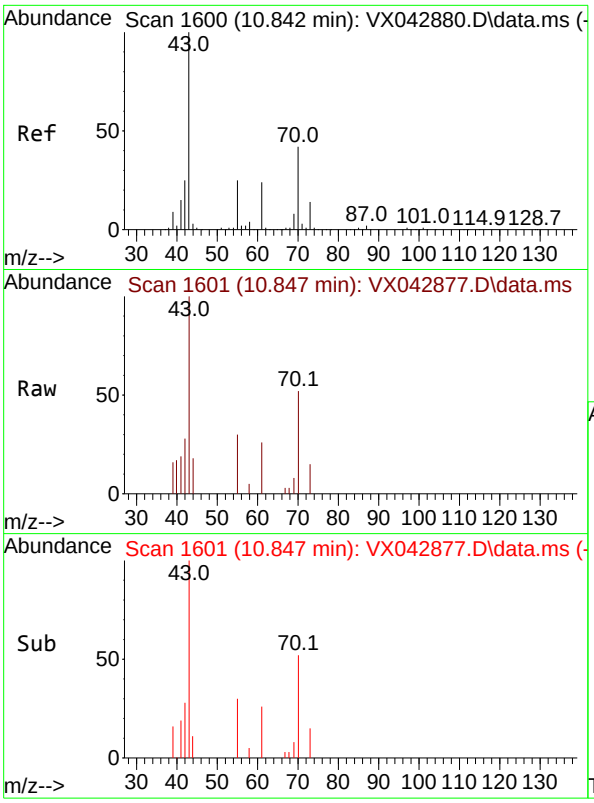


#73
Isopropylbenzene
Concen: 0.954 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. -0.000 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion:105 Resp: 9372

Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.9	38.6

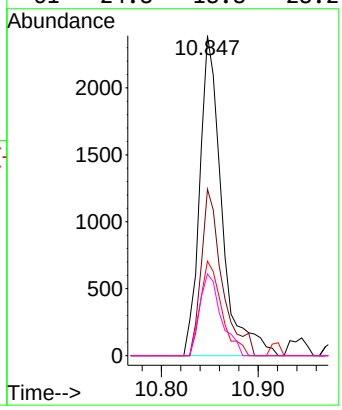




#74
N-amyl acetate
Concen: 0.863 ug/l
RT: 10.847 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 43 Resp: 381

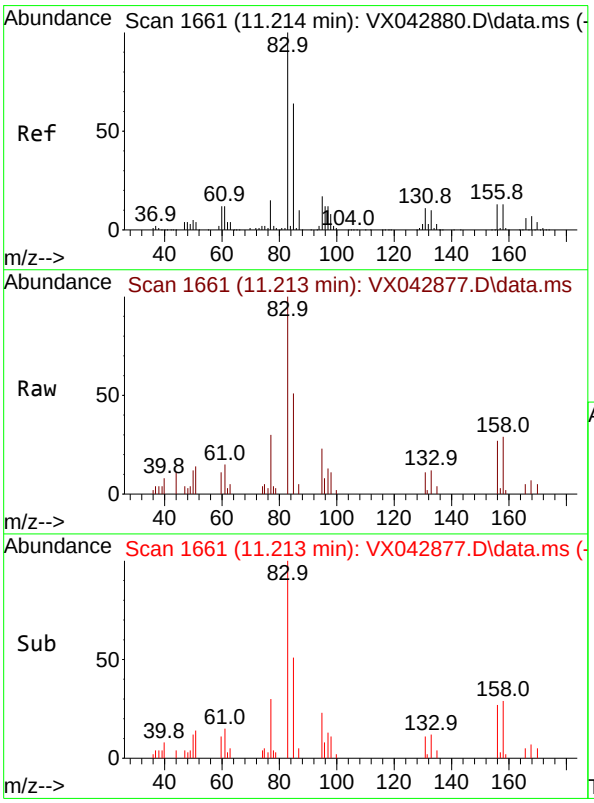
Ion	Ratio	Lower	Upper
43	100		
70	48.7	32.9	49.3
55	28.0	19.3	28.9
61	24.8	18.8	28.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

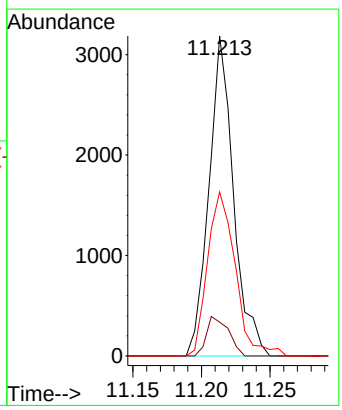
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

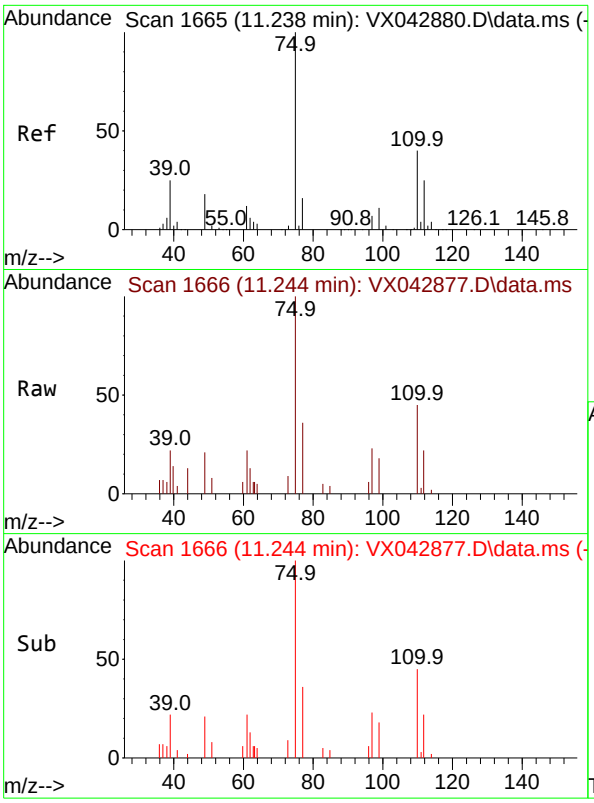


#75
1,1,2,2-Tetrachloroethane
Concen: 1.107 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. -0.000 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 83 Resp: 3983

Ion	Ratio	Lower	Upper
83	100		
131	10.9	5.3	15.8
85	57.7	32.0	96.2





#76
1,2,3-Trichloropropane
Concen: 1.090 ug/l m
RT: 11.244 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

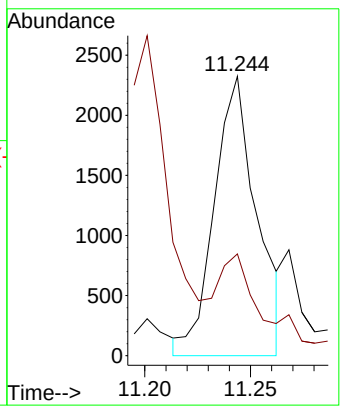
Tgt Ion: 75 Resp: 324

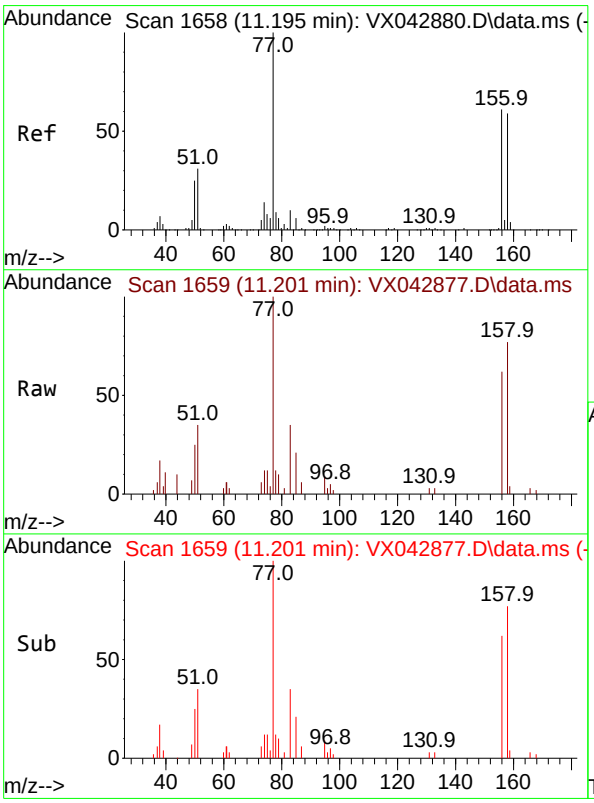
Ion	Ratio	Lower	Upper
75	100		
77	41.7	19.1	57.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

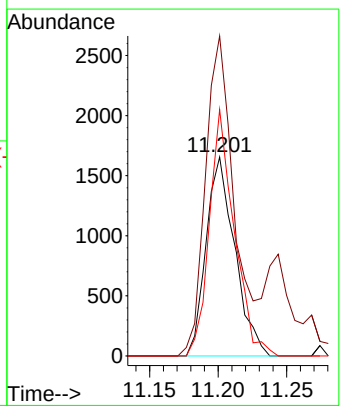


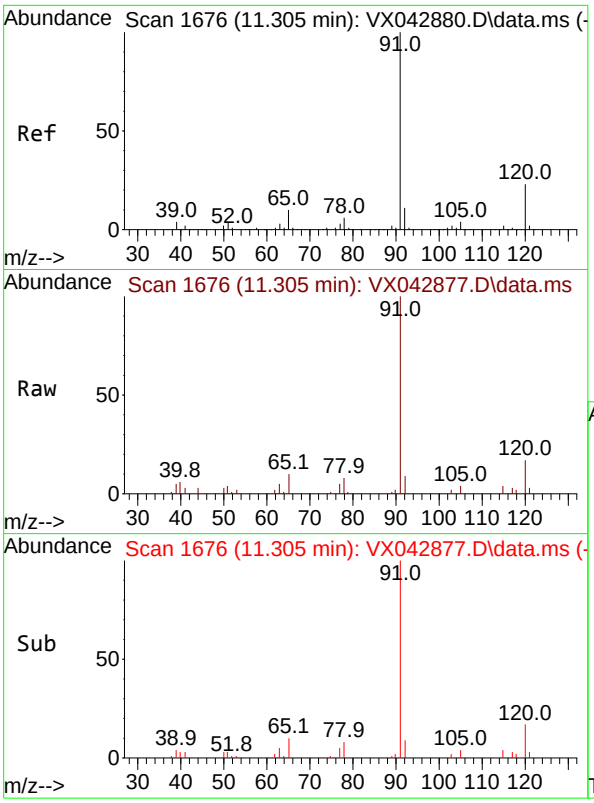


#77
Bromobenzene
Concen: 0.964 ug/l
RT: 11.201 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion:156 Resp: 2409

Ion	Ratio	Lower	Upper
156	100		
77	158.1	88.4	265.3
158	108.0	48.0	144.0





#78
n-propylbenzene
Concen: 0.877 ug/l
RT: 11.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

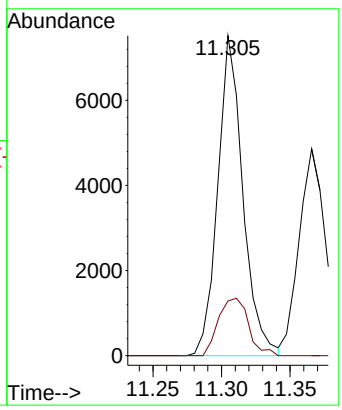
Tgt Ion: 91 Resp: 956

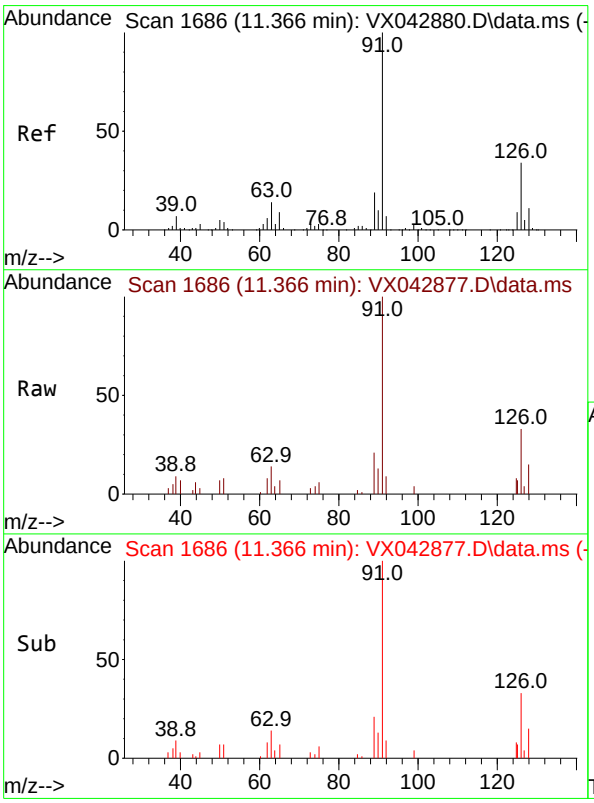
Ion	Ratio	Lower	Upper
91	100		
120	21.5	11.5	34.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

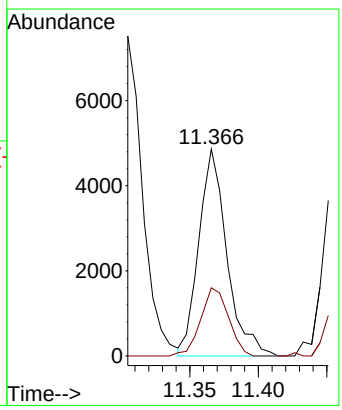


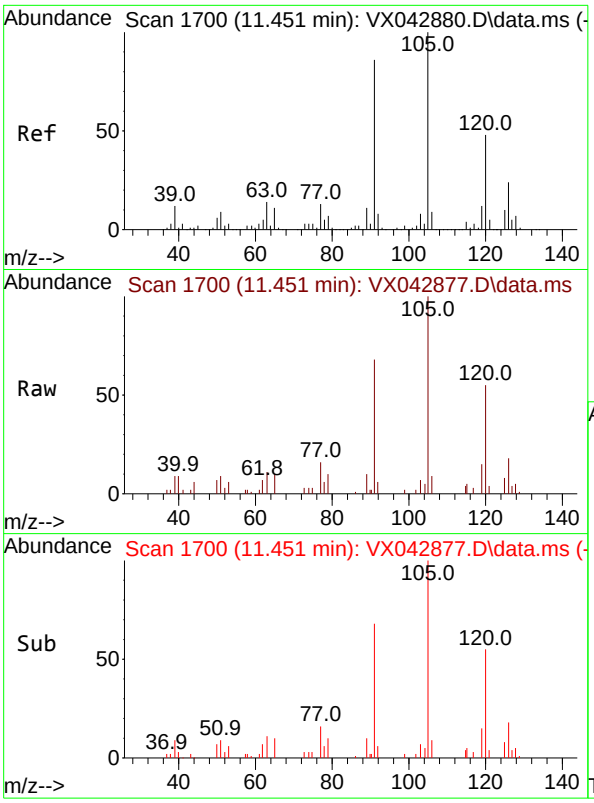


#79
2-Chlorotoluene
Concen: 0.991 ug/l
RT: 11.366 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 91 Resp: 6935

Ion	Ratio	Lower	Upper
91	100		
126	32.6	16.3	48.8

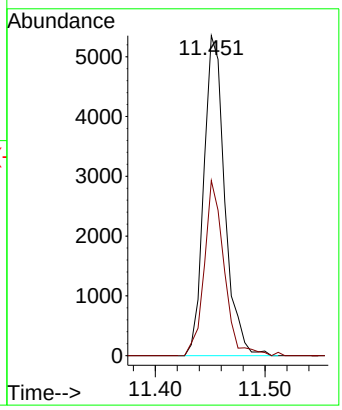




#80
1,3,5-Trimethylbenzene
Concen: 0.871 ug/l
RT: 11.451 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion:105 Resp: 708

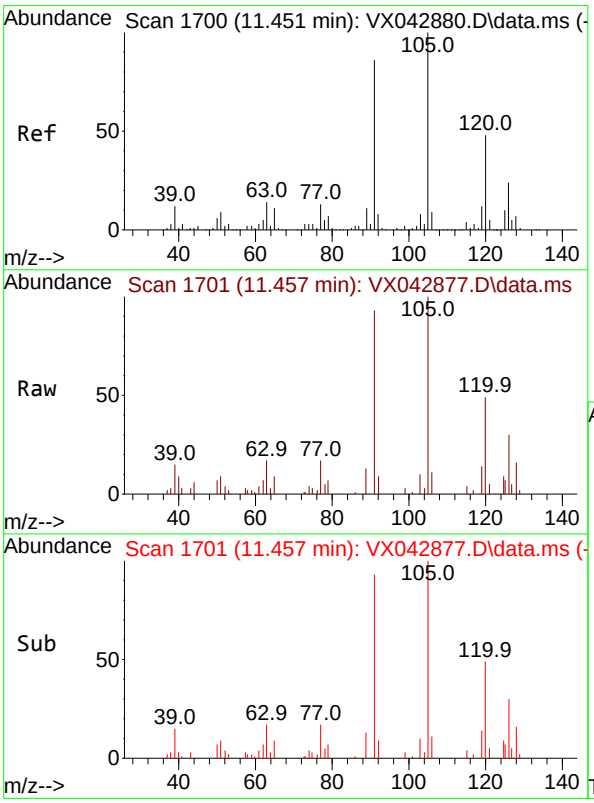
Ion	Ratio	Lower	Upper
105	100		
120	52.0	24.1	72.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

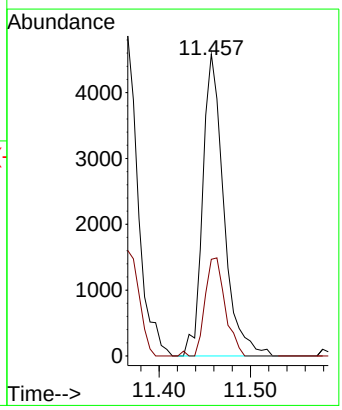
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

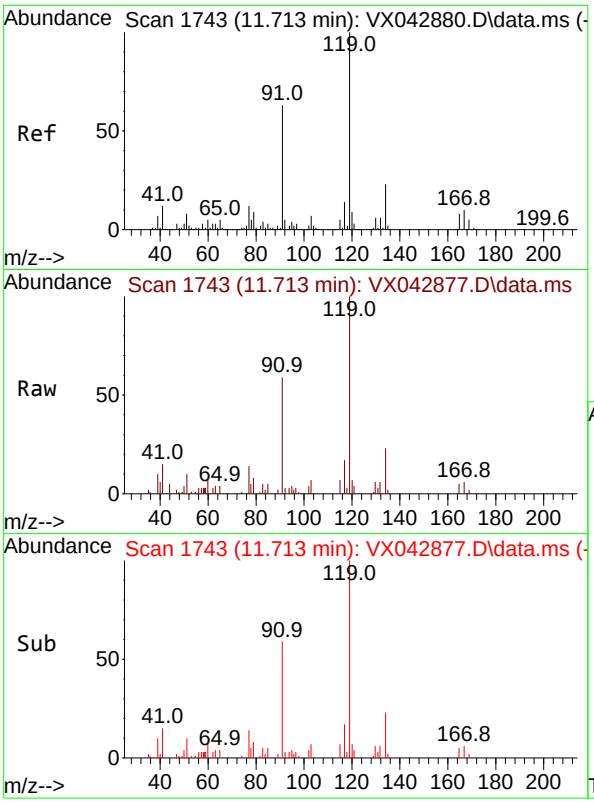


#82
4-Chlorotoluene
Concen: 0.937 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 91 Resp: 7368

Ion	Ratio	Lower	Upper
91	100		
126	30.9	14.2	42.6

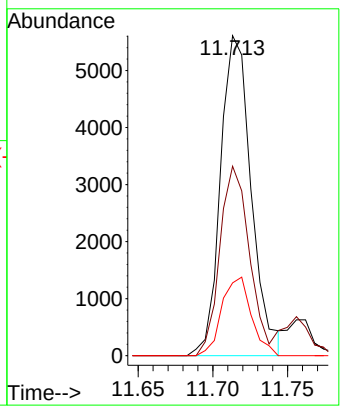




#83
tert-Butylbenzene
Concen: 0.959 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion:119 Resp: 801

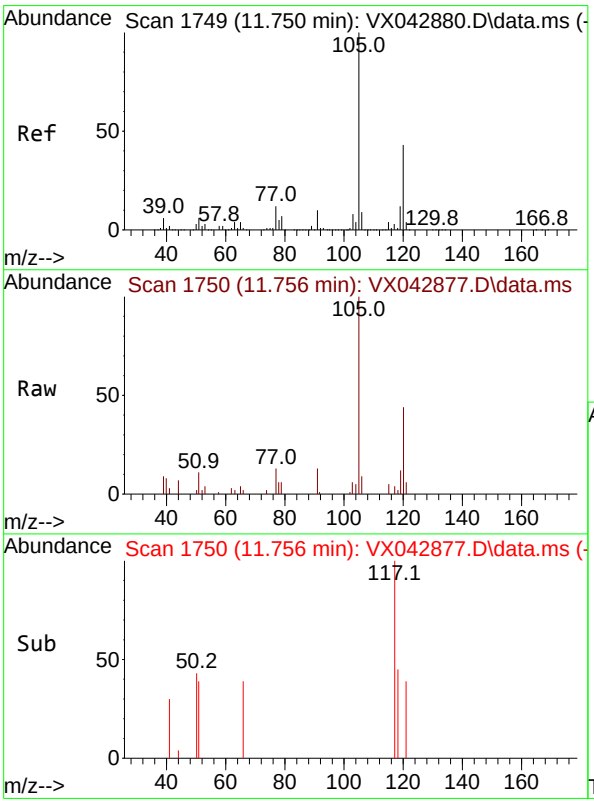
Ion	Ratio	Lower	Upper
119	100		
91	56.7	31.2	93.6
134	23.7	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

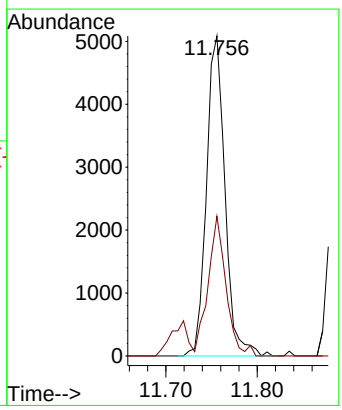
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

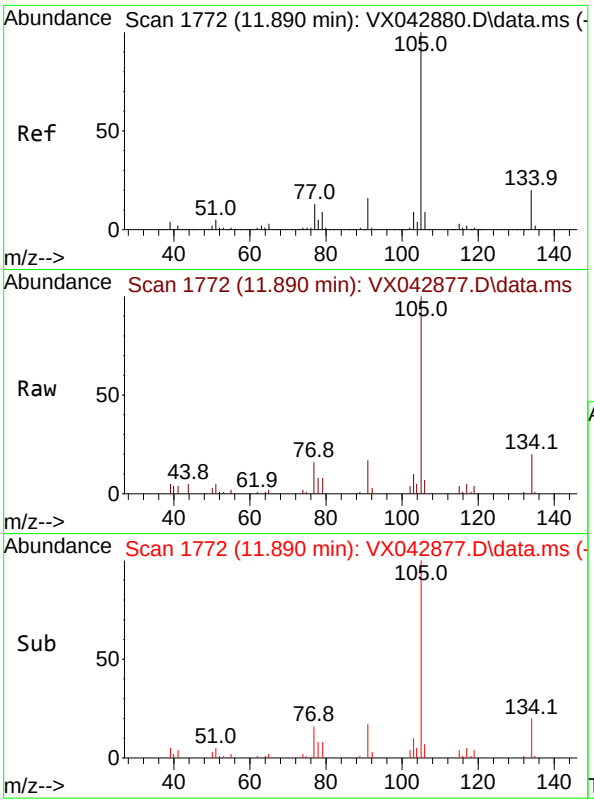


#84
1,2,4-Trimethylbenzene
Concen: 0.870 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion:105 Resp: 7129

Ion	Ratio	Lower	Upper
105	100		
120	42.5	21.2	63.6





#85
sec-Butylbenzene
Concen: 0.825 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

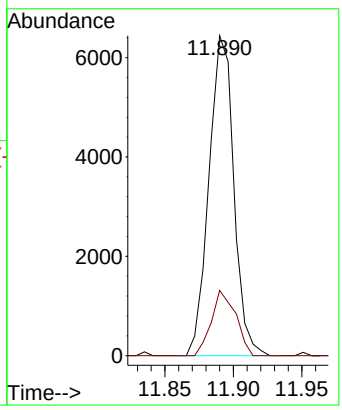
Tgt Ion:105 Resp: 812

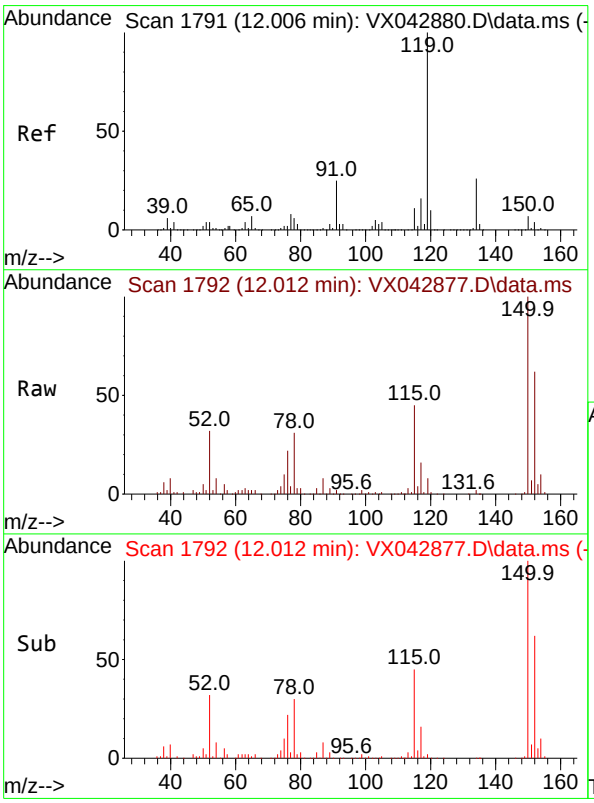
Ion	Ratio	Lower	Upper
105	100		
134	19.9	9.8	29.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

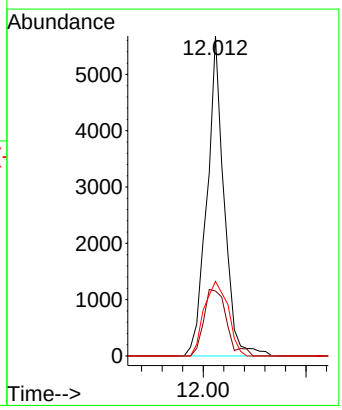


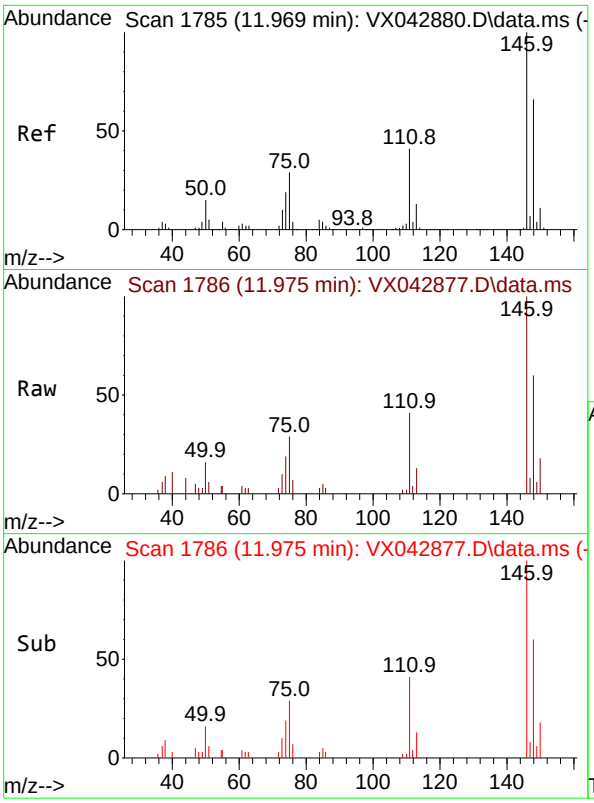


#86
p-Isopropyltoluene
Concen: 0.803 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion:119 Resp: 6569

Ion	Ratio	Lower	Upper
119	100		
134	27.7	12.8	38.3
91	32.5	13.1	39.3

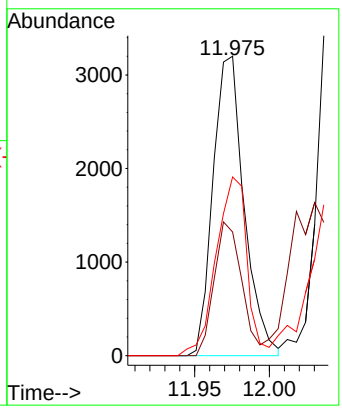




#87
1,3-Dichlorobenzene
Concen: 1.024 ug/l
RT: 11.975 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion:146 Resp: 463

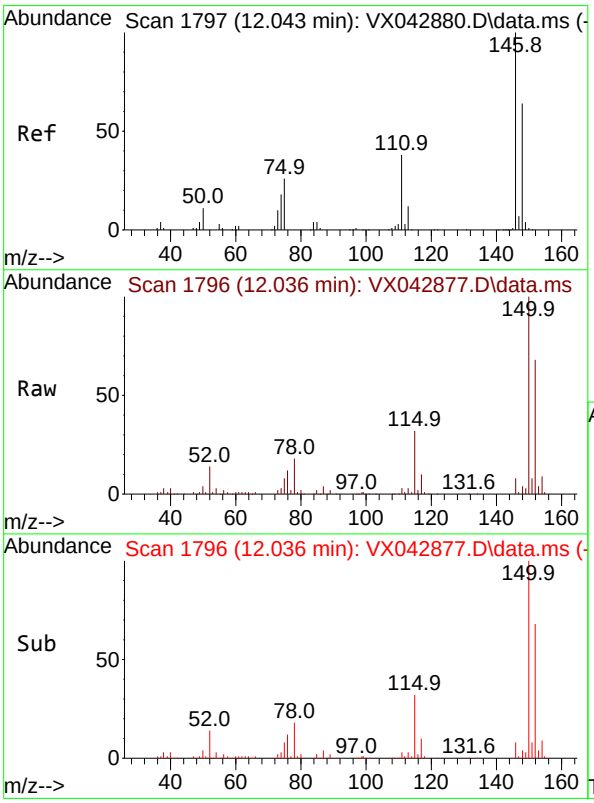
Ion	Ratio	Lower	Upper
146	100		
111	39.4	22.1	66.1
148	59.0	31.8	95.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

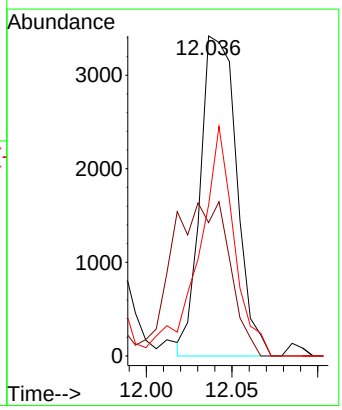
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

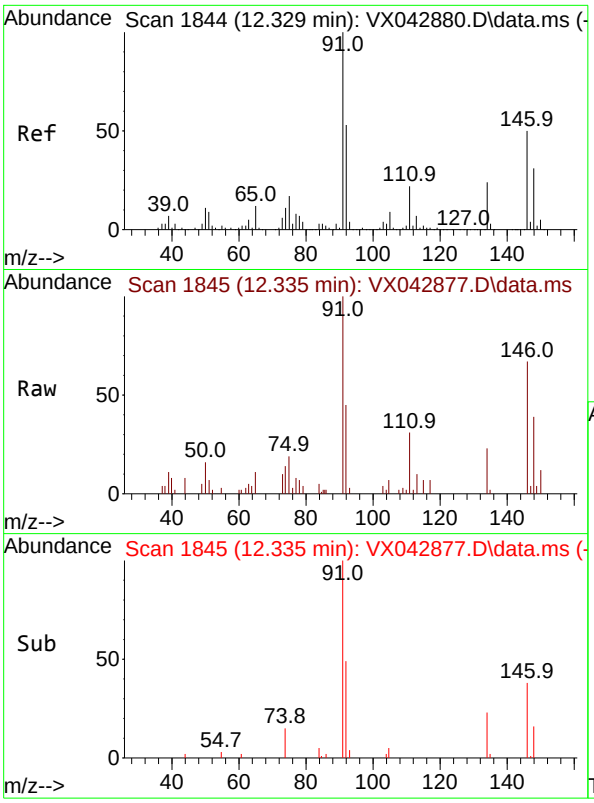


#88
1,4-Dichlorobenzene
Concen: 1.085 ug/l m
RT: 12.036 min Scan# 1796
Delta R.T. -0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion:146 Resp: 5029

Ion	Ratio	Lower	Upper
146	100		
111	36.3	21.3	63.7
148	54.3	31.8	95.4

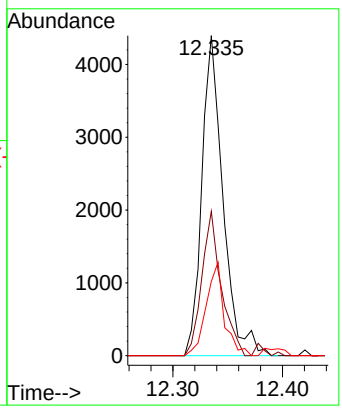




#89
n-Butylbenzene
Concen: 0.834 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 91 Resp: 588

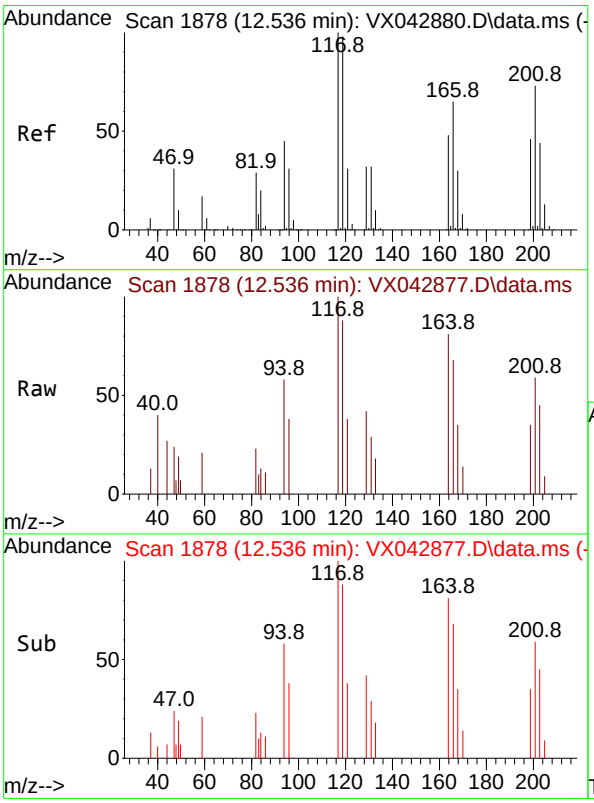
Ion	Ratio	Lower	Upper
91	100		
92	41.3	27.4	82.0
134	24.9	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

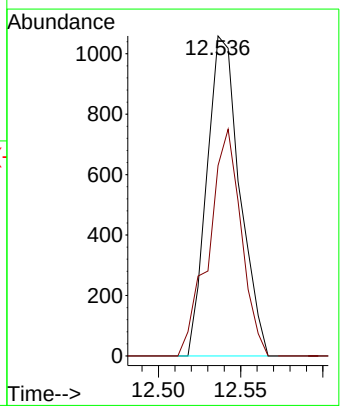
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

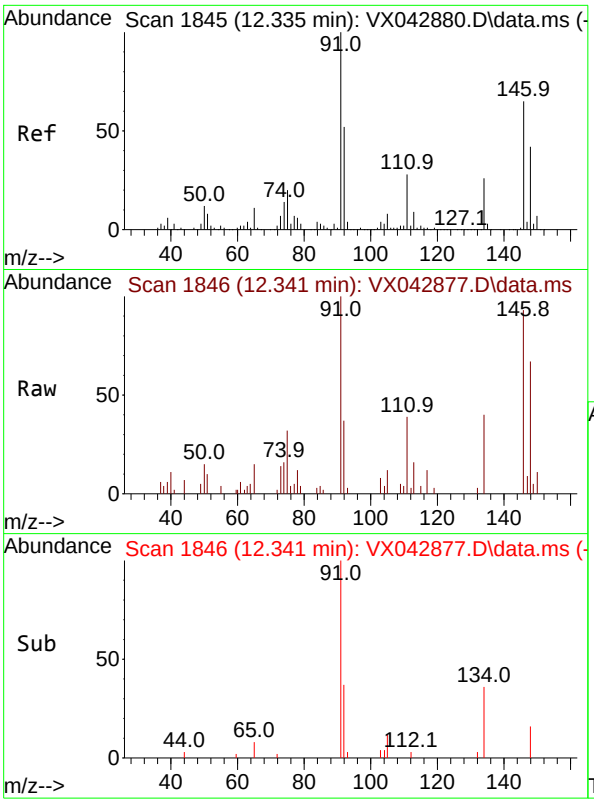


#90
Hexachloroethane
Concen: 0.983 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion:117 Resp: 1471

Ion	Ratio	Lower	Upper
117	100		
201	69.9	32.9	98.6

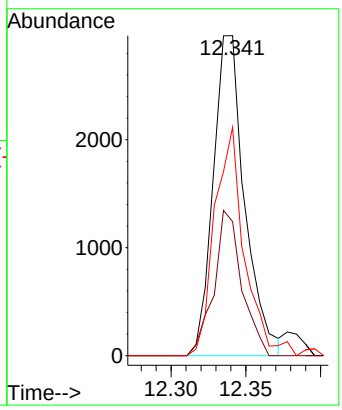




#91
1,2-Dichlorobenzene
Concen: 0.959 ug/l
RT: 12.341 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion:146 Resp: 434

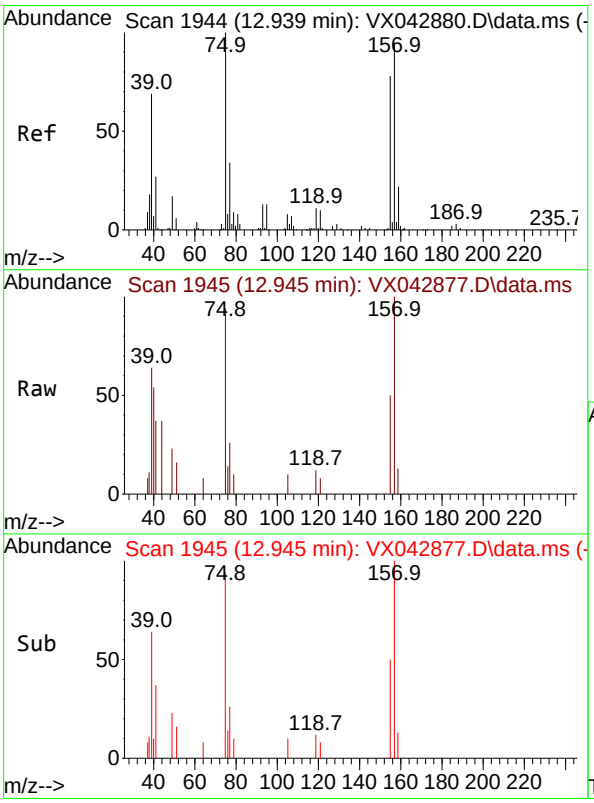
Ion	Ratio	Lower	Upper
146	100		
111	40.3	22.4	67.0
148	68.3	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

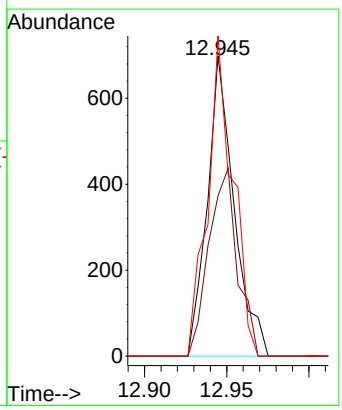
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

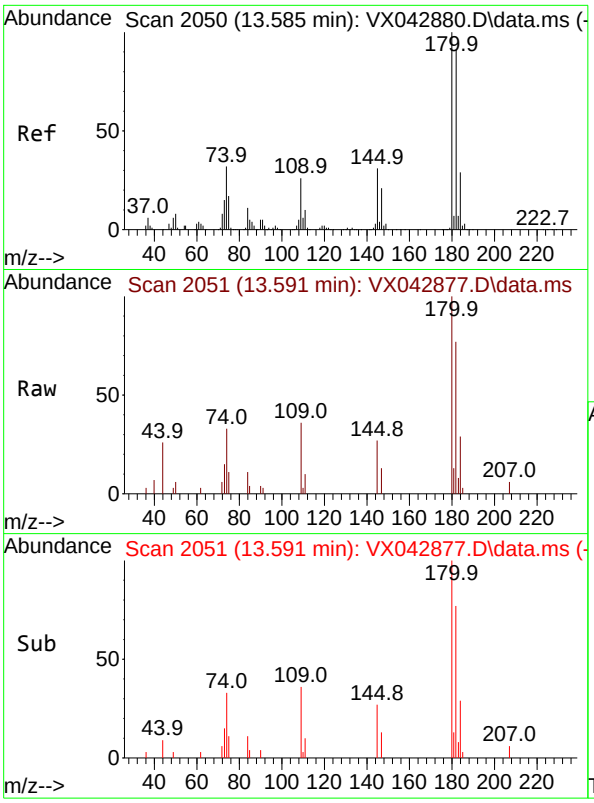


#92
1,2-Dibromo-3-Chloropropane
Concen: 1.000 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion: 75 Resp: 791

Ion	Ratio	Lower	Upper
75	100		
155	66.6	36.1	108.5
157	100.5	44.9	134.7

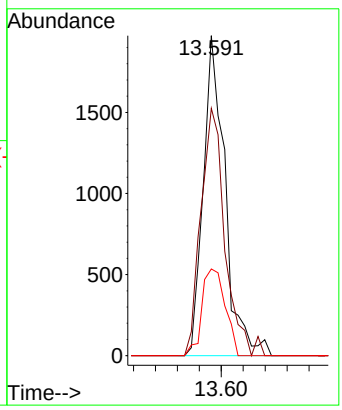




#93
1,2,4-Trichlorobenzene
Concen: 0.985 ug/l
RT: 13.591 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion:180 Resp: 272

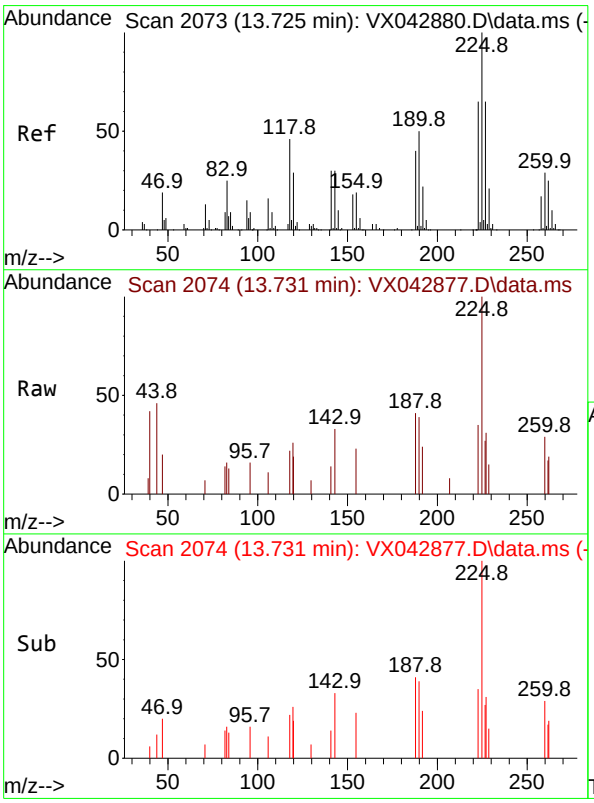
Ion	Ratio	Lower	Upper
180	100		
182	85.5	48.3	144.8
145	29.0	18.0	54.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

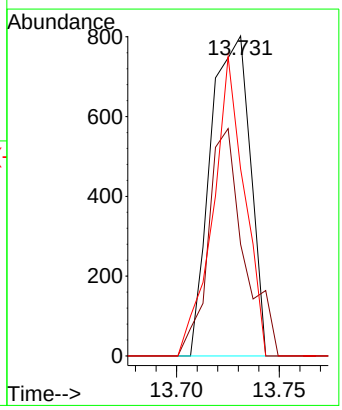
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

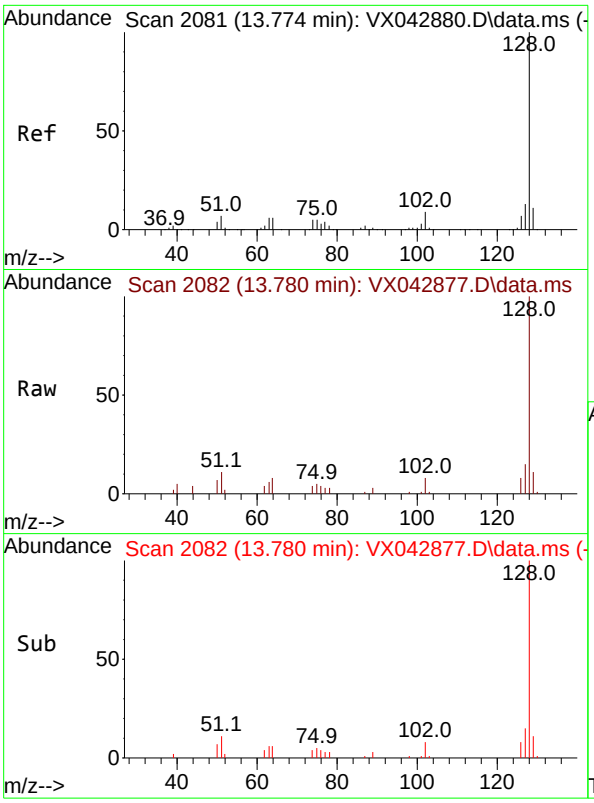


#94
Hexachlorobutadiene
Concen: 0.915 ug/l
RT: 13.731 min Scan# 2074
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion:225 Resp: 1072

Ion	Ratio	Lower	Upper
225	100		
223	64.2	31.1	93.2
227	74.5	32.5	97.5

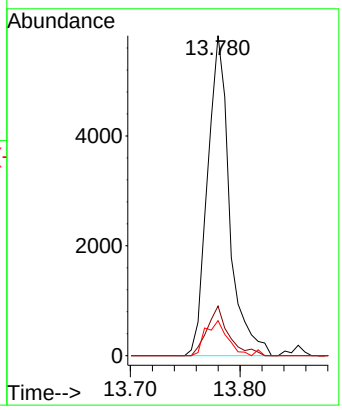




#95
Naphthalene
Concen: 0.853 ug/l
RT: 13.780 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion:128 Resp: 815

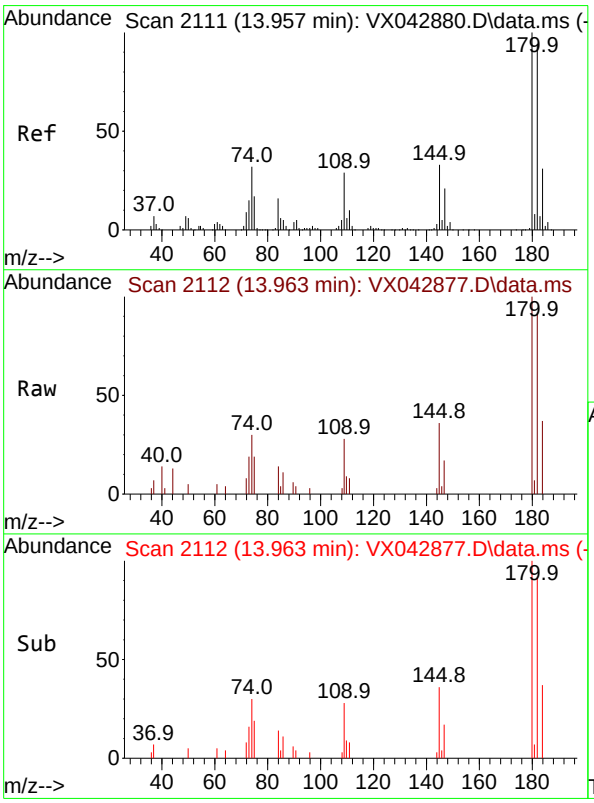
Ion	Ratio	Lower	Upper
128	100		
127	15.0	10.3	15.5
129	10.9	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

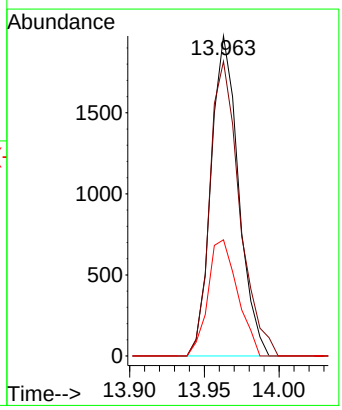
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024



#96
1,2,3-Trichlorobenzene
Concen: 0.907 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX042877.D
Acq: 06 Aug 2024 18:18

Tgt Ion:180 Resp: 2521

Ion	Ratio	Lower	Upper
180	100		
182	99.2	46.9	140.6
145	39.2	17.8	53.5



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042878.D
Acq On : 06 Aug 2024 18:41
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

Quant Time: Aug 07 02:36:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:27:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	244835	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	412487	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	363253	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	159705	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	17770	5.287	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	10.580%#		
35) Dibromofluoromethane	5.385	113	13733	5.092	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.180%#		
50) Toluene-d8	8.653	98	49296	5.149	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	10.300%#		
62) 4-Bromofluorobenzene	11.079	95	16652	4.840	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	9.680%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	12037	4.561	ug/l	95
3) Chloromethane	1.301	50	14037	4.882	ug/l	96
4) Vinyl Chloride	1.374	62	13763	5.045	ug/l	99
5) Bromomethane	1.599	94	8583	5.198	ug/l	99
6) Chloroethane	1.666	64	8116	5.222	ug/l	98
7) Trichlorofluoromethane	1.868	101	22117	5.213	ug/l	86
8) Diethyl Ether	2.136	74	8135	5.213	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	12912	4.840	ug/l	93
10) Methyl Iodide	2.441	142	11538	4.183	ug/l	94
11) Tert butyl alcohol	3.002	59	15332	22.933	ug/l #	91
12) 1,1-Dichloroethene	2.307	96	13736	5.090	ug/l	83
13) Acrolein	2.239	56	16177	24.549	ug/l	98
14) Allyl chloride	2.654	41	21139	5.184	ug/l	97
15) Acrylonitrile	3.075	53	41825	24.511	ug/l	99
16) Acetone	2.398	43	34732	23.824	ug/l	95
17) Carbon Disulfide	2.502	76	29998	4.568	ug/l	95
18) Methyl Acetate	2.709	43	25080	5.425	ug/l	96
19) Methyl tert-butyl Ether	3.123	73	45230	4.980	ug/l	98
20) Methylene Chloride	2.788	84	17180	4.821	ug/l #	85
21) trans-1,2-Dichloroethene	3.087	96	13390	4.932	ug/l	96
22) Diisopropyl ether	3.770	45	44591	4.978	ug/l	88
23) Vinyl Acetate	3.727	43	244278	24.027	ug/l	99
24) 1,1-Dichloroethane	3.611	63	26211	5.088	ug/l	99
25) 2-Butanone	4.581	43	56576	24.712	ug/l	99
26) 2,2-Dichloropropane	4.477	77	15351	4.847	ug/l	94
27) cis-1,2-Dichloroethene	4.489	96	16317	5.068	ug/l	90
28) Bromochloromethane	4.904	49	11092	5.611	ug/l	91
29) Tetrahydrofuran	5.019	42	39137	25.298	ug/l	98
30) Chloroform	5.093	83	26518	4.917	ug/l	92
31) Cyclohexane	5.458	56	19991	4.753	ug/l #	95
32) 1,1,1-Trichloroethane	5.385	97	22944	4.832	ug/l	97
36) 1,1-Dichloropropene	5.690	75	18183	4.973	ug/l	96
37) Ethyl Acetate	4.739	43	21096	4.611	ug/l	96
38) Carbon Tetrachloride	5.678	117	19163	4.642	ug/l	92
39) Methylcyclohexane	7.379	83	20473	4.710	ug/l	97
40) Benzene	6.038	78	57360	5.054	ug/l	94

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042878.D
Acq On : 06 Aug 2024 18:41
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 07 02:36:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:27:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.934	41	11625	4.933	ug/l		93
42) 1,2-Dichloroethane	6.086	62	20840	5.049	ug/l		97
43) Isopropyl Acetate	6.355	43	32678	4.830	ug/l		96
44) Trichloroethene	7.135	130	14308	5.018	ug/l		91
45) 1,2-Dichloropropane	7.434	63	14171	4.922	ug/l		97
46) Dibromomethane	7.586	93	10502	4.967	ug/l		92
47) Bromodichloromethane	7.824	83	18759	4.776	ug/l		91
48) Methyl methacrylate	7.702	41	15292	4.713	ug/l		95
49) 1,4-Dioxane	7.678	88	7125m	104.145	ug/l		
51) 4-Methyl-2-Pentanone	8.580	43	113397	25.020	ug/l		100
52) Toluene	8.720	92	34491	5.010	ug/l		91
53) t-1,3-Dichloropropene	8.982	75	16090	4.431	ug/l		99
54) cis-1,3-Dichloropropene	8.373	75	19288	4.810	ug/l	#	83
55) 1,1,2-Trichloroethane	9.153	97	13987	4.998	ug/l	#	83
56) Ethyl methacrylate	9.122	69	20632	4.582	ug/l		98
57) 1,3-Dichloropropane	9.311	76	23024	5.022	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.245	63	50594	23.838	ug/l		98
59) 2-Hexanone	9.433	43	85864	24.449	ug/l		100
60) Dibromochloromethane	9.525	129	14068	4.576	ug/l		99
61) 1,2-Dibromoethane	9.610	107	14521	4.911	ug/l		99
64) Tetrachloroethene	9.275	164	12177	4.821	ug/l		97
65) Chlorobenzene	10.080	112	37836	4.908	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.165	131	12659	4.763	ug/l		95
67) Ethyl Benzene	10.195	91	60589	4.673	ug/l		97
68) m/p-Xylenes	10.305	106	46292	9.352	ug/l		99
69) o-Xylene	10.640	106	23228	4.684	ug/l		94
70) Styrene	10.659	104	36515	4.579	ug/l		95
71) Bromoform	10.799	173	9126	4.946	ug/l	#	97
73) Isopropylbenzene	10.964	105	59234	5.130	ug/l		100
74) N-amyl acetate	10.848	43	24889	4.791	ug/l		97
75) 1,1,2,2-Tetrachloroethane	11.213	83	22395	5.294	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	19903m	5.681	ug/l		
77) Bromobenzene	11.201	156	15463	5.265	ug/l		88
78) n-propylbenzene	11.305	91	63321	4.937	ug/l		99
79) 2-Chlorotoluene	11.366	91	42601	5.182	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	48330	5.055	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	4290	3.884	ug/l	#	82
82) 4-Chlorotoluene	11.457	91	46194	4.999	ug/l		99
83) tert-Butylbenzene	11.713	119	48301	4.916	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	46653	4.847	ug/l		96
85) sec-Butylbenzene	11.890	105	57699	4.987	ug/l		99
86) p-Isopropyltoluene	12.006	119	46352	4.822	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	26290	4.946	ug/l		95
88) 1,4-Dichlorobenzene	12.043	146	27597	5.065	ug/l		97
89) n-Butylbenzene	12.335	91	37502	4.522	ug/l		93
90) Hexachloroethane	12.543	117	8073	4.591	ug/l		84
91) 1,2-Dichlorobenzene	12.335	146	27366	5.141	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	12.945	75	4208	4.527	ug/l		79
93) 1,2,4-Trichlorobenzene	13.585	180	15026	4.628	ug/l		93
94) Hexachlorobutadiene	13.725	225	6793	4.933	ug/l		98
95) Naphthalene	13.774	128	52181	4.644	ug/l		98
96) 1,2,3-Trichlorobenzene	13.957	180	15235	4.661	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042878.D
Acq On : 06 Aug 2024 18:41
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

Quant Time: Aug 07 02:36:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:27:24 2024
Response via : Initial Calibration

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

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

ICAL Form

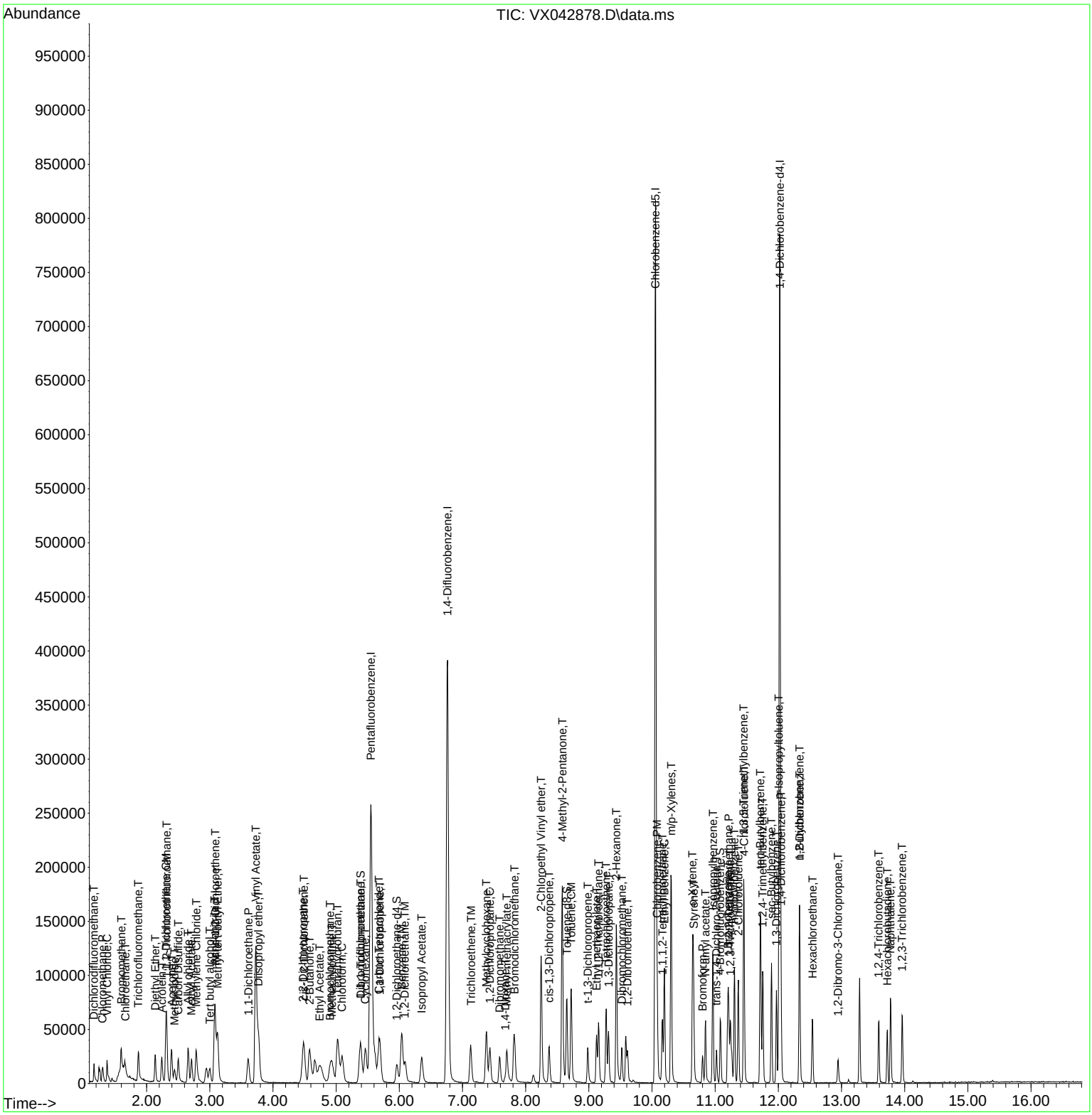
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042878.D
Acq On : 06 Aug 2024 18:41
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

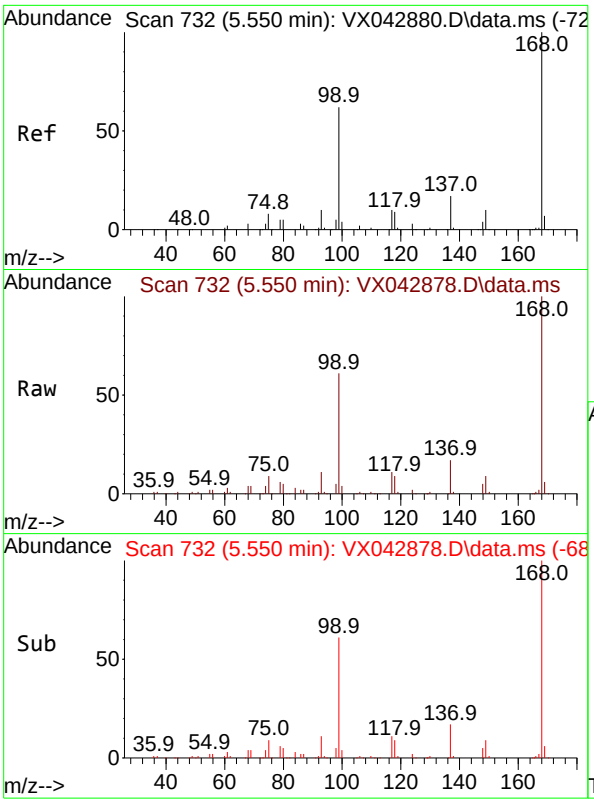
Quant Time: Aug 07 02:36:59 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:27:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

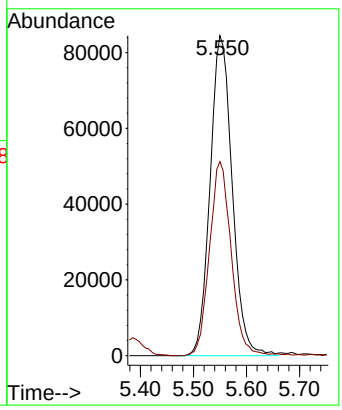




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion:168 Resp: 24483

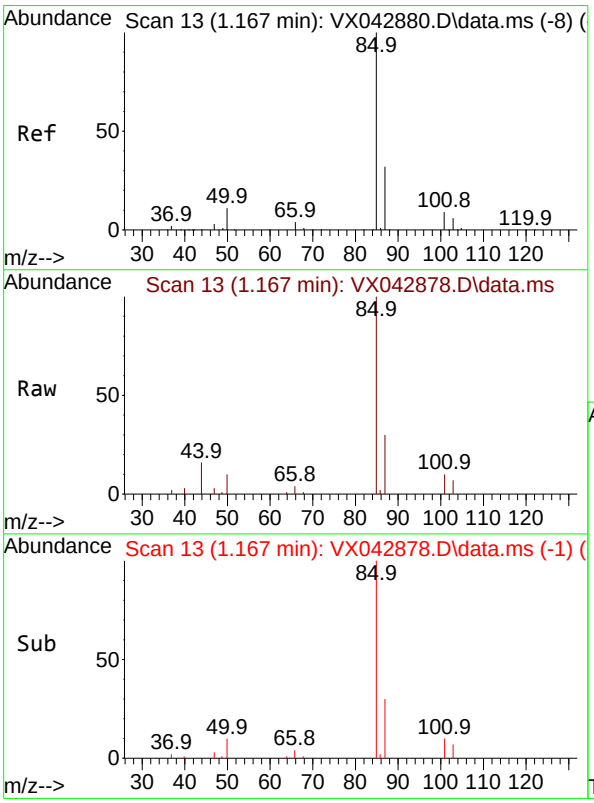
Ion	Ratio	Lower	Upper
168	100		
99	60.7	56.6	85.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

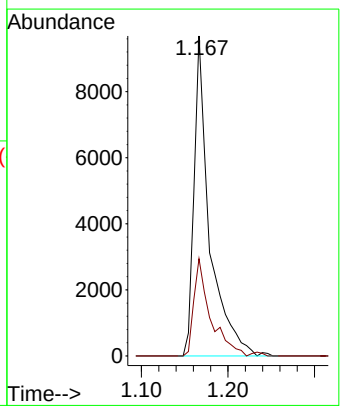
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

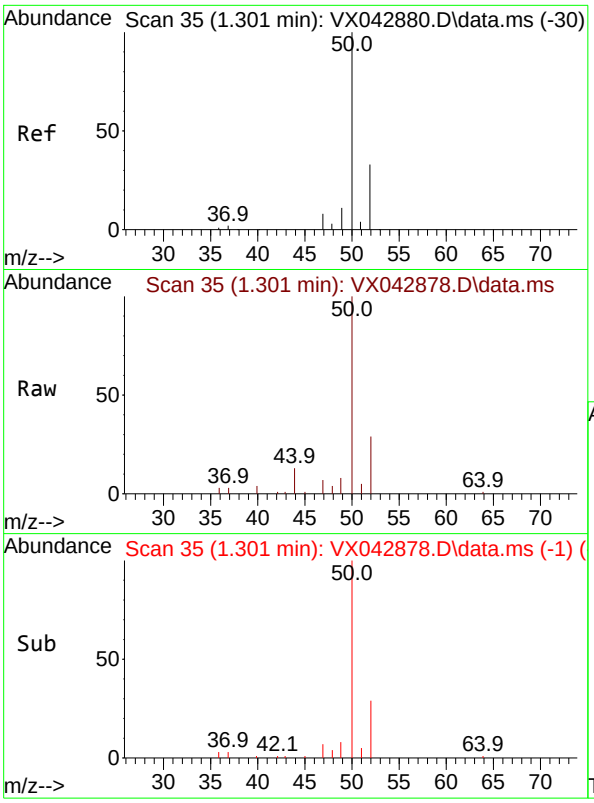


#2
Dichlorodifluoromethane
Concen: 4.561 ug/l
RT: 1.167 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 85 Resp: 12037

Ion	Ratio	Lower	Upper
85	100		
87	30.4	16.7	50.1





#3
Chloromethane
Concen: 4.882 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

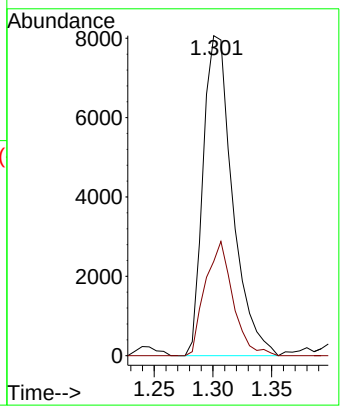
Tgt Ion: 50 Resp: 1403

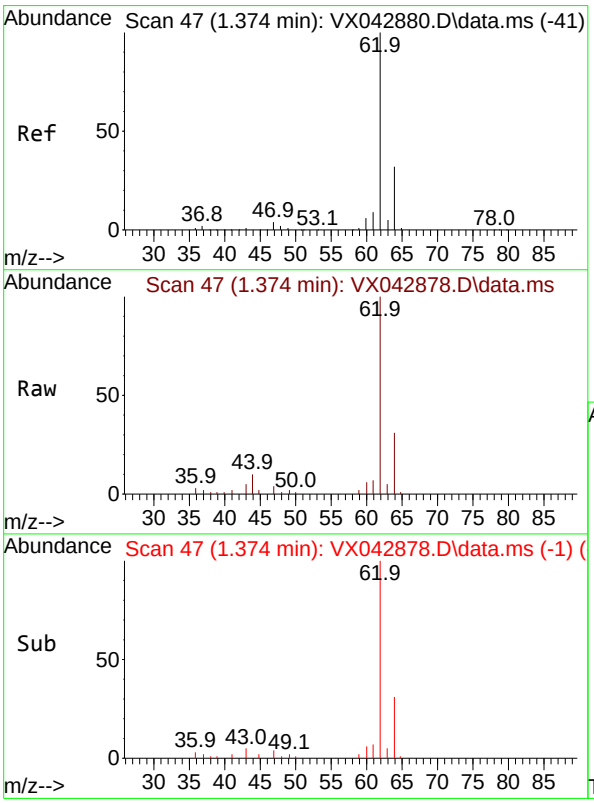
Ion	Ratio	Lower	Upper
50	100		
52	29.4	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

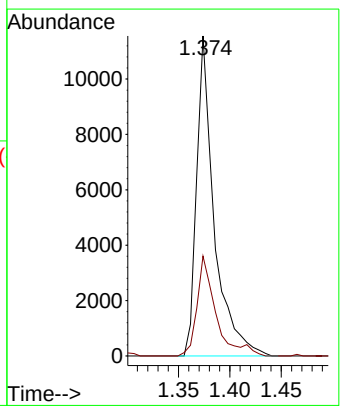


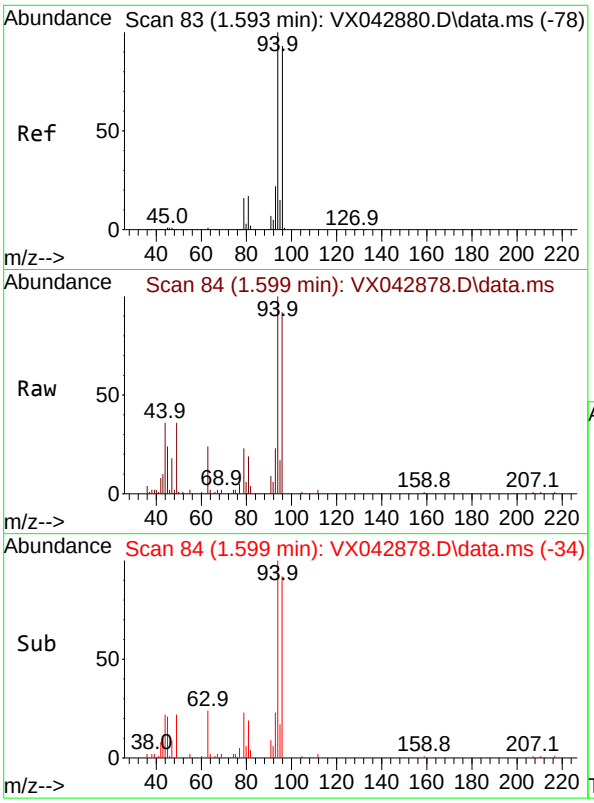


#4
Vinyl Chloride
Concen: 5.045 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 62 Resp: 13763

Ion	Ratio	Lower	Upper
62	100		
64	31.2	25.4	38.0

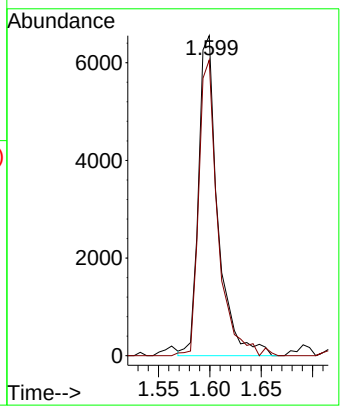




#5
Bromomethane
Concen: 5.198 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.006 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 94 Resp: 858

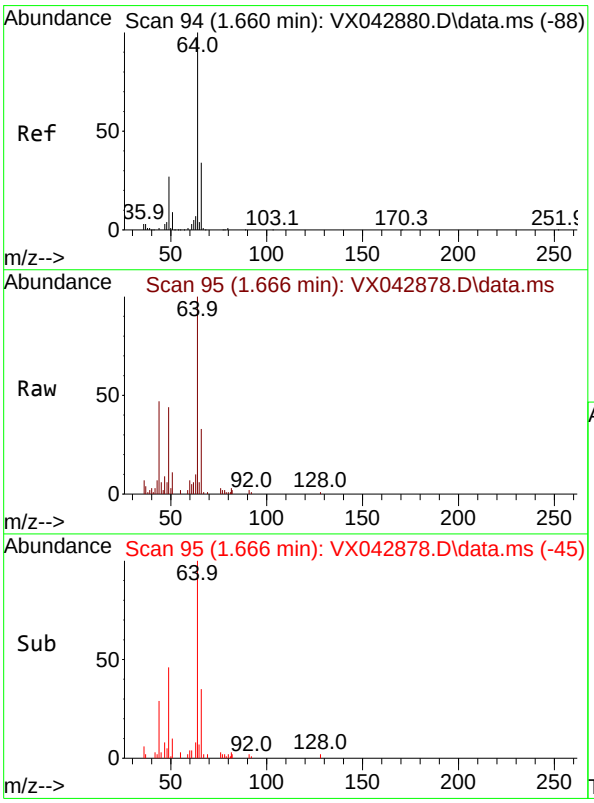
Ion	Ratio	Lower	Upper
94	100		
96	92.4	74.6	111.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

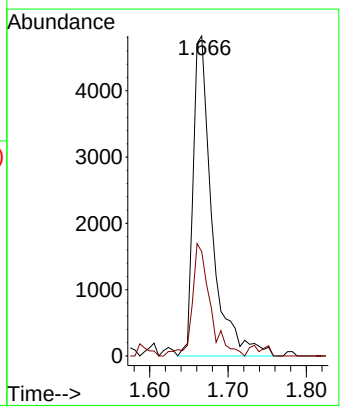
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

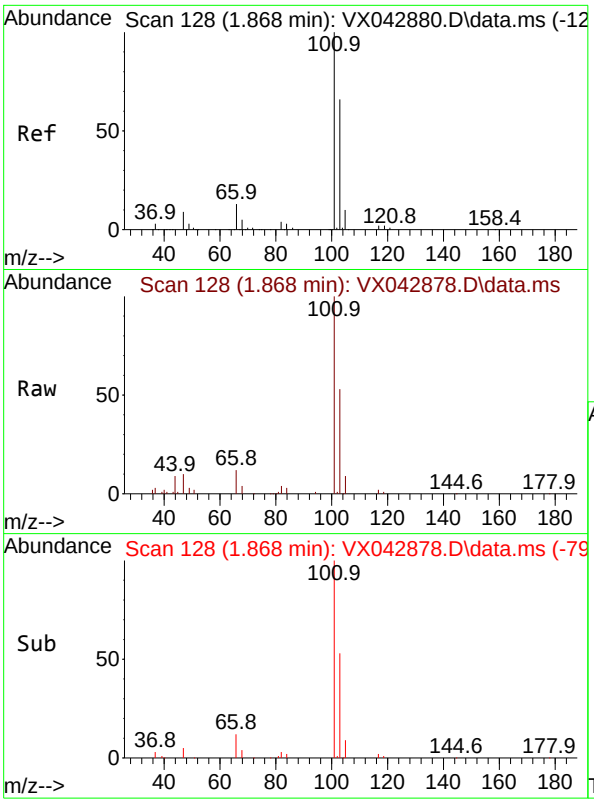


#6
Chloroethane
Concen: 5.222 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.006 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 64 Resp: 8116

Ion	Ratio	Lower	Upper
64	100		
66	32.6	25.1	37.7

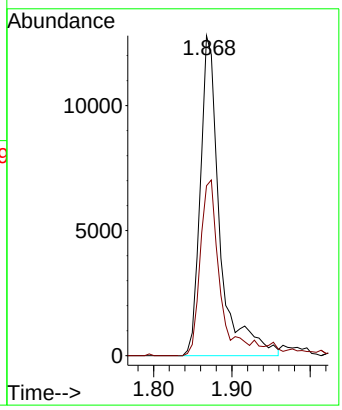




#7
Trichlorofluoromethane
Concen: 5.213 ug/l
RT: 1.868 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion:101 Resp: 2211

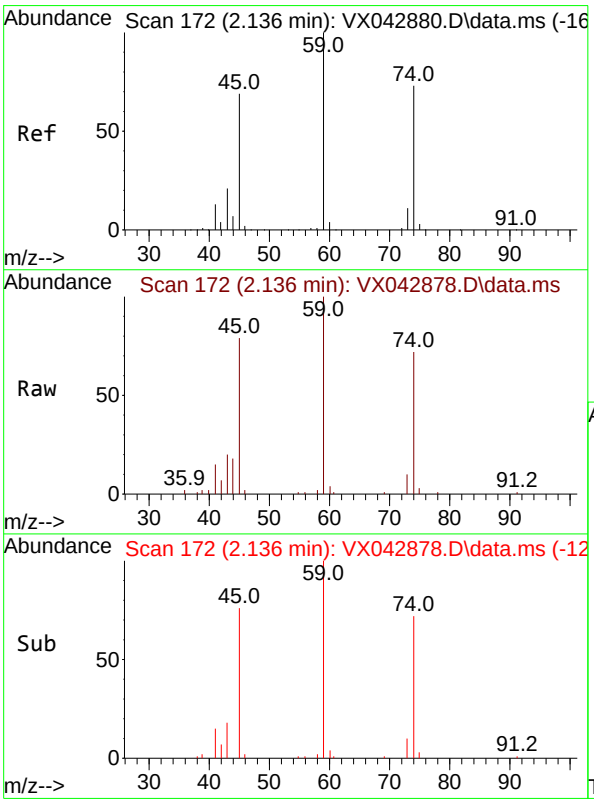
Ion	Ratio	Lower	Upper
101	100		
103	53.1	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

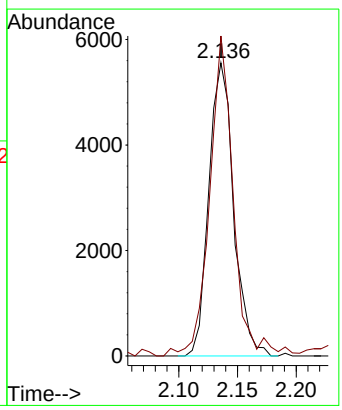
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

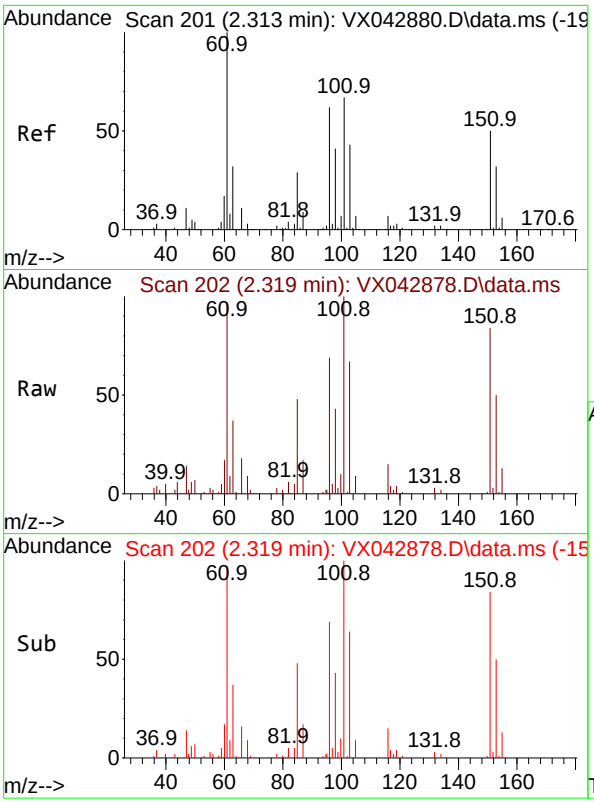


#8
Diethyl Ether
Concen: 5.213 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 74 Resp: 8135

Ion	Ratio	Lower	Upper
74	100		
45	105.0	53.3	159.8

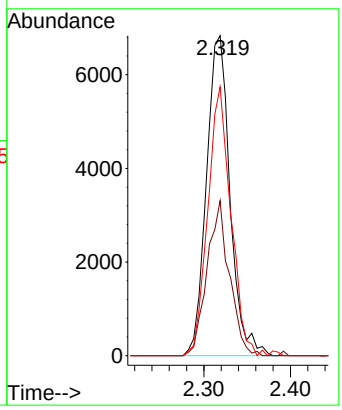




#9
1,1,2-Trichlorotrifluoroethane
Concen: 4.840 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion:101 Resp: 1291

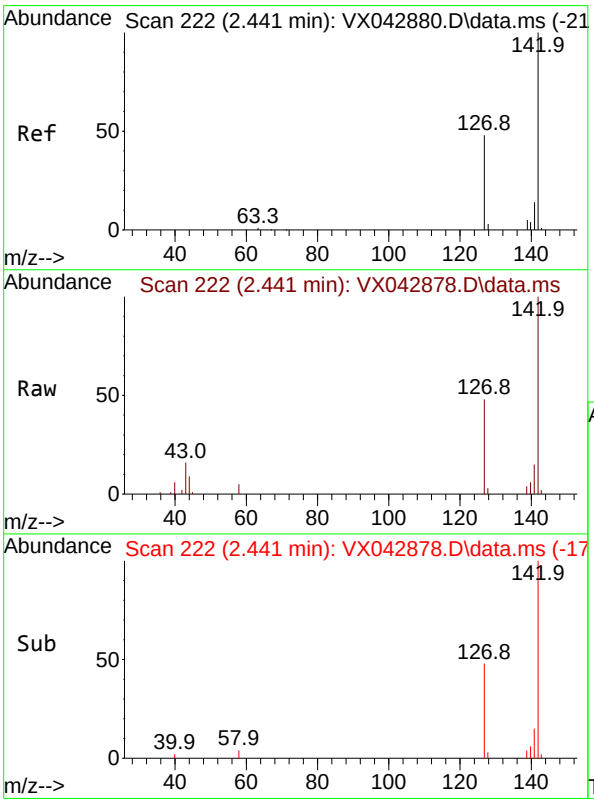
Ion	Ratio	Lower	Upper
101	100		
85	45.9	37.0	55.6
151	82.1	58.6	87.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

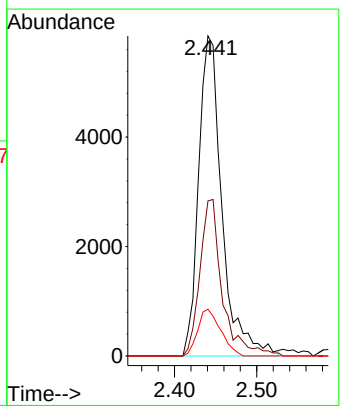
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

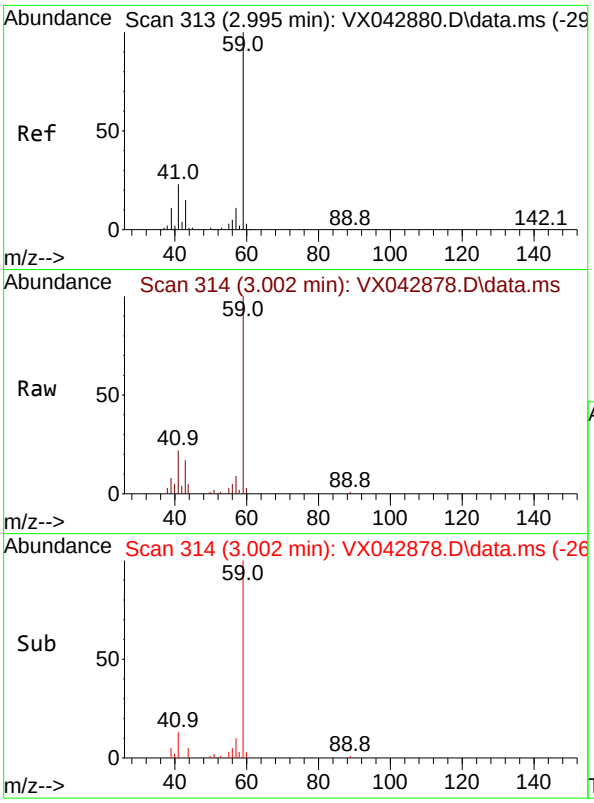


#10
Methyl Iodide
Concen: 4.183 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion:142 Resp: 11538

Ion	Ratio	Lower	Upper
142	100		
127	46.7	41.6	62.4
141	14.3	11.6	17.4





#11
Tert butyl alcohol
Concen: 22.933 ug/l
RT: 3.002 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

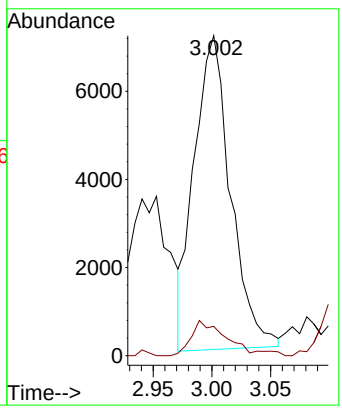
Tgt Ion: 59 Resp: 1533

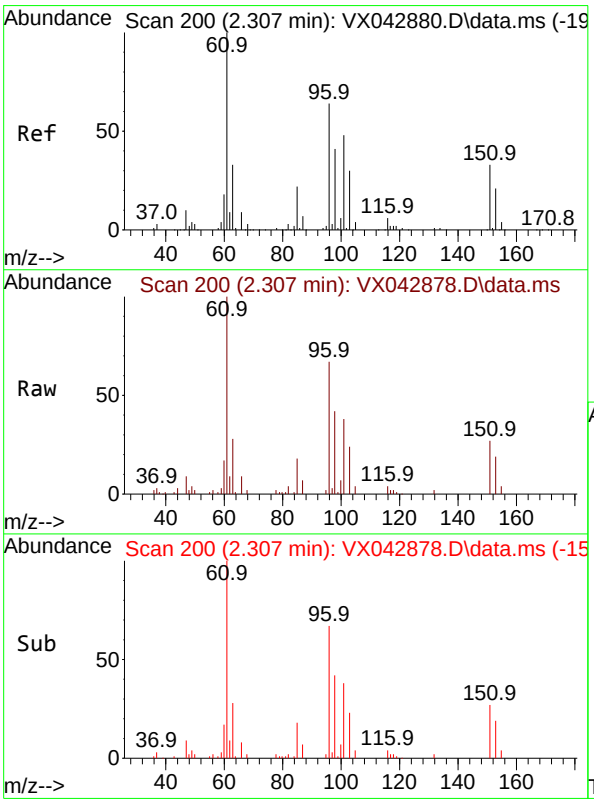
Ion	Ratio	Lower	Upper
59	100		
57	10.7	6.0	9.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

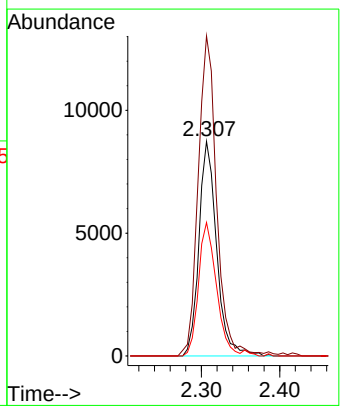


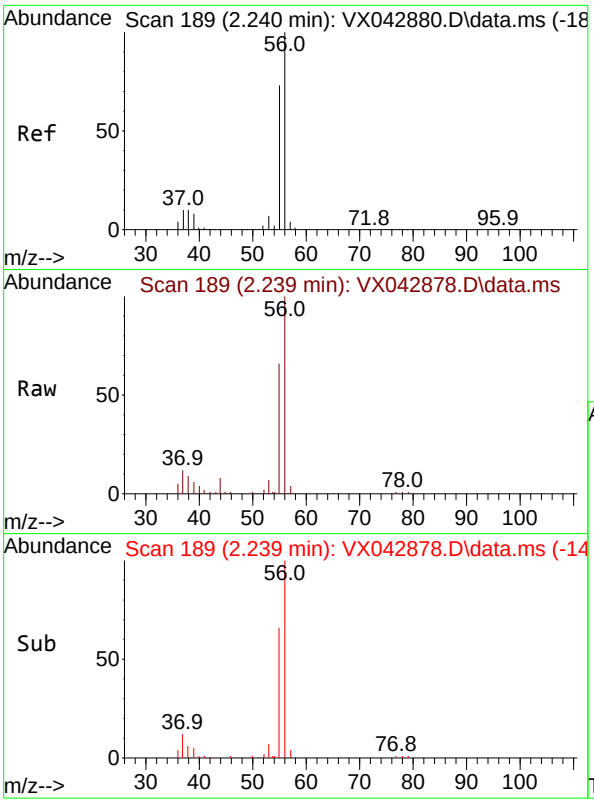


#12
1,1-Dichloroethene
Concen: 5.090 ug/l
RT: 2.307 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 96 Resp: 13736

Ion	Ratio	Lower	Upper
96	100		
61	149.1	144.6	216.8
98	62.2	50.4	75.6

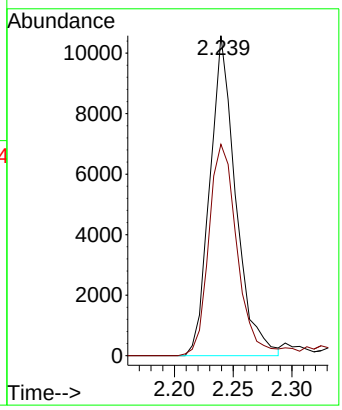




#13
Acrolein
Concen: 24.549 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 56 Resp: 1617

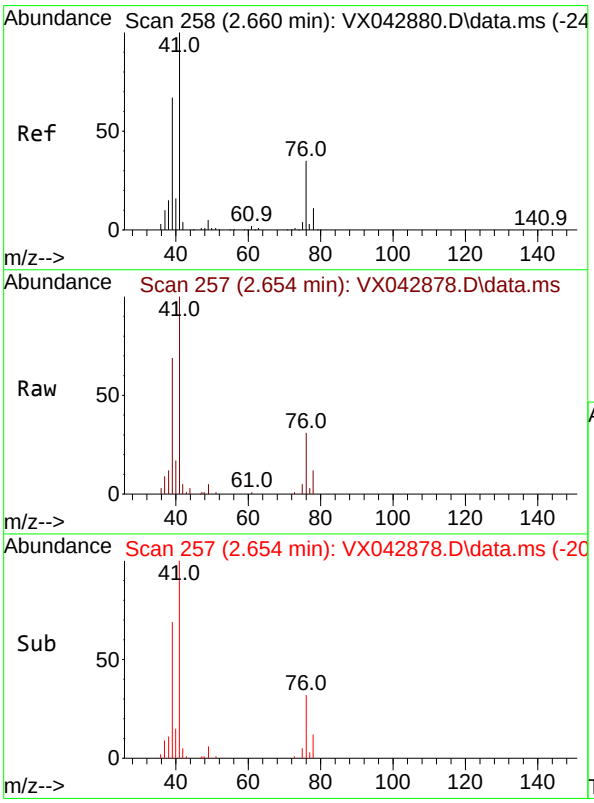
Ion	Ratio	Lower	Upper
56	100		
55	73.4	57.1	85.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

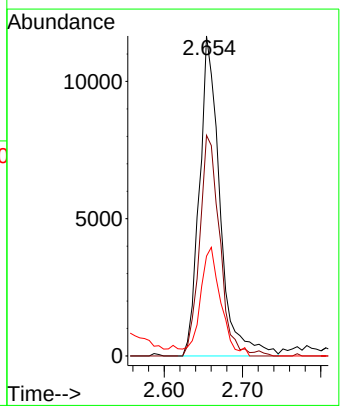
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

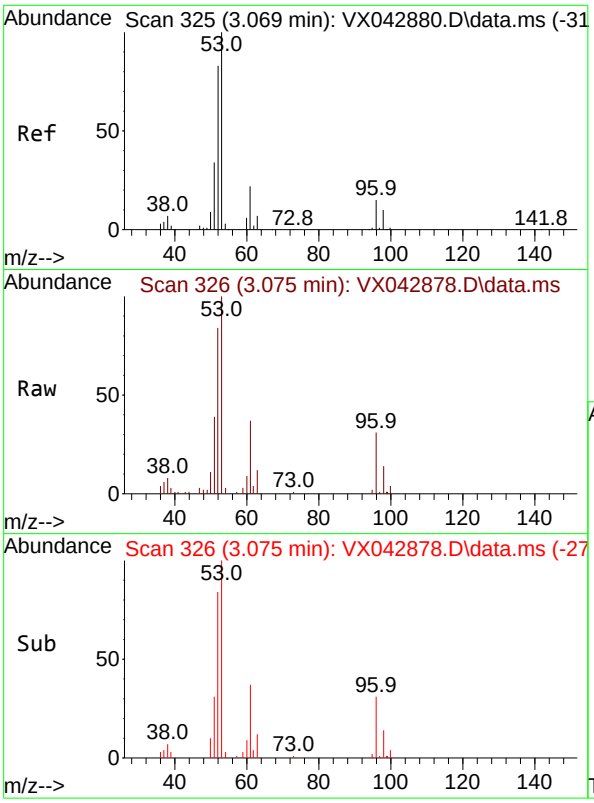


#14
Allyl chloride
Concen: 5.184 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 41 Resp: 21139

Ion	Ratio	Lower	Upper
41	100		
39	68.0	55.8	83.6
76	33.8	24.3	36.5

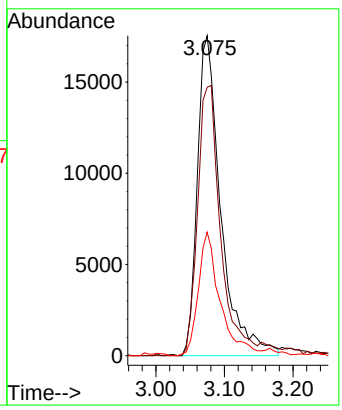




#15
Acrylonitrile
Concen: 24.511 ug/l
RT: 3.075 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 53 Resp: 4182

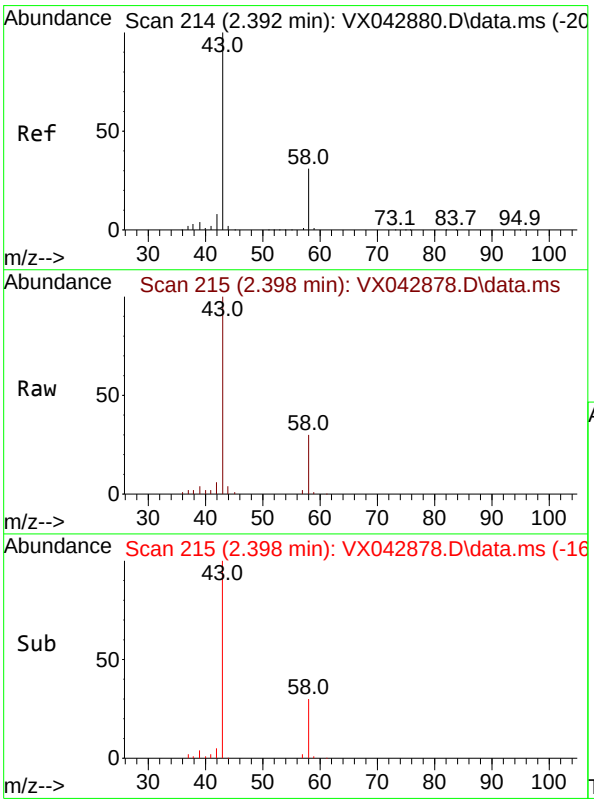
Ion	Ratio	Lower	Upper
53	100		
52	82.0	66.0	99.0
51	35.9	29.8	44.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

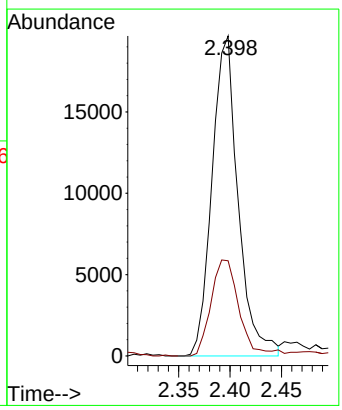
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

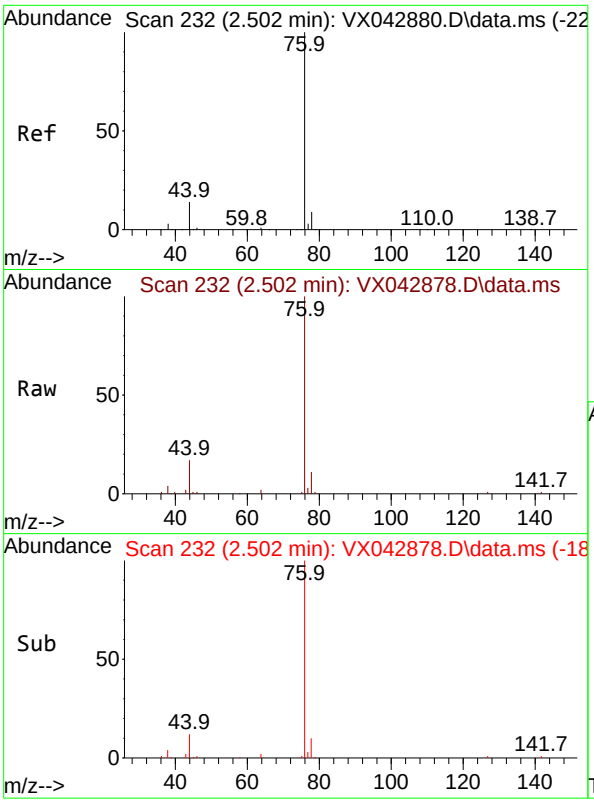


#16
Acetone
Concen: 23.824 ug/l
RT: 2.398 min Scan# 215
Delta R.T. 0.006 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 43 Resp: 34732

Ion	Ratio	Lower	Upper
43	100		
58	29.8	21.9	32.9





#17
Carbon Disulfide
Concen: 4.568 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

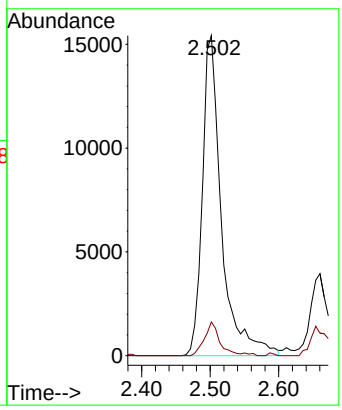
Tgt Ion: 76 Resp: 2999

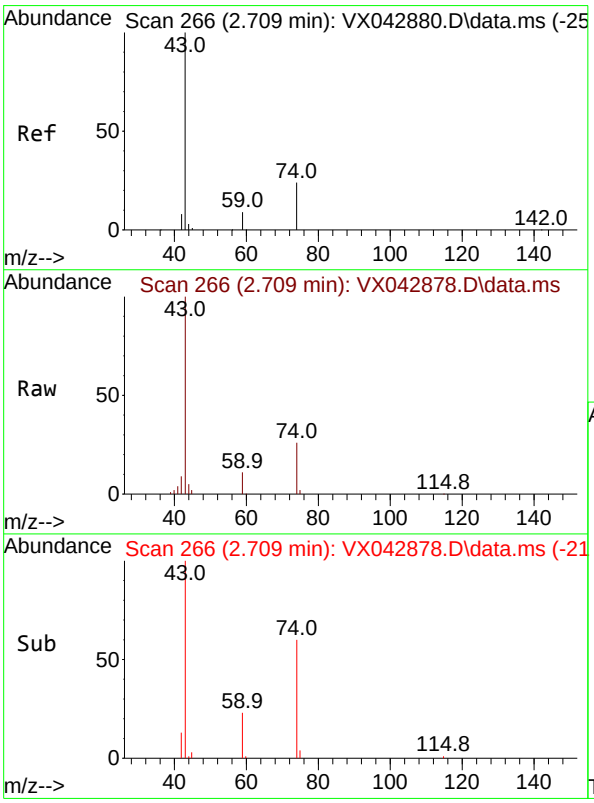
Ion	Ratio	Lower	Upper
76	100		
78	10.5	7.0	10.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

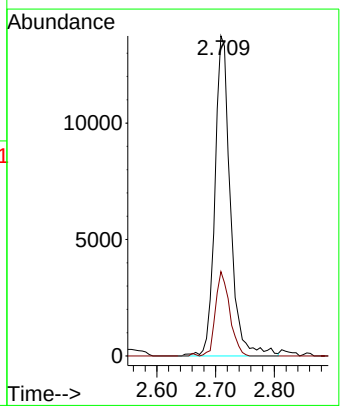


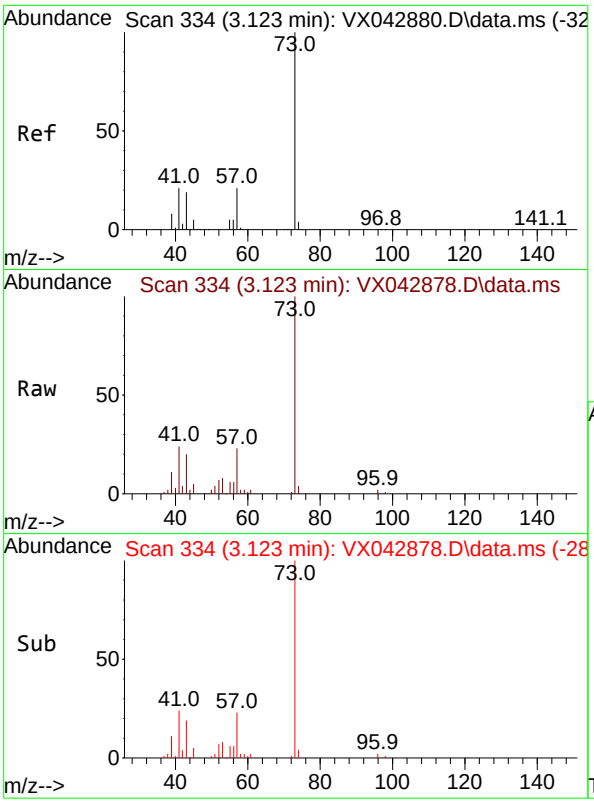


#18
Methyl Acetate
Concen: 5.425 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 43 Resp: 25080

Ion	Ratio	Lower	Upper
43	100		
74	24.1	17.8	26.8

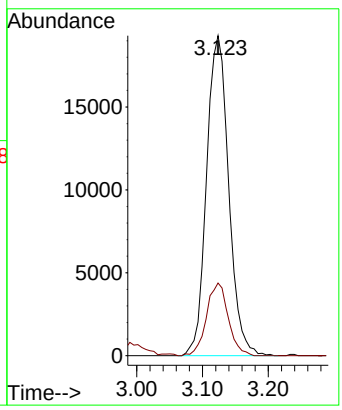




#19
Methyl tert-butyl Ether
Concen: 4.980 ug/l
RT: 3.123 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 73 Resp: 4523

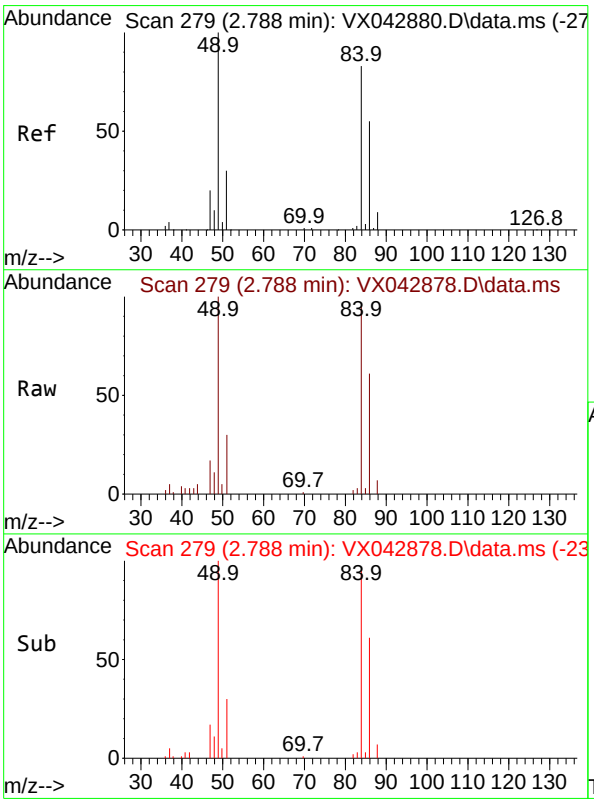
Ion	Ratio	Lower	Upper
73	100		
57	22.7	17.3	25.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

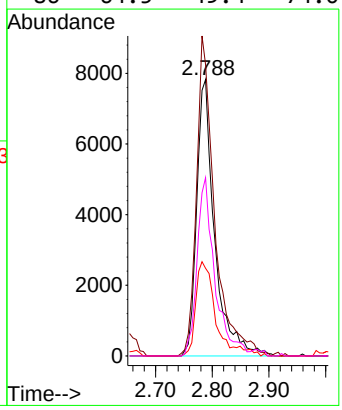
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

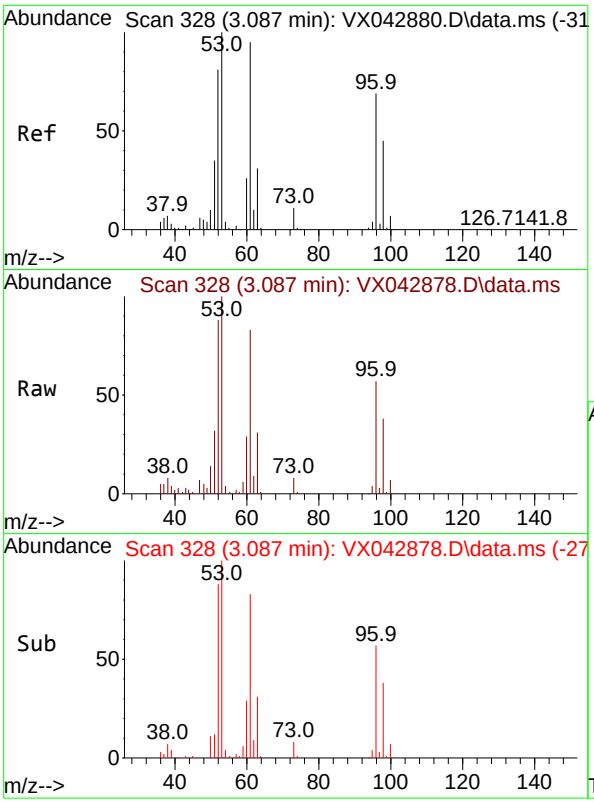


#20
Methylene Chloride
Concen: 4.821 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 84 Resp: 17180

Ion	Ratio	Lower	Upper
84	100		
49	105.4	103.6	155.4
51	31.7	33.8	50.6#
86	64.5	49.4	74.0

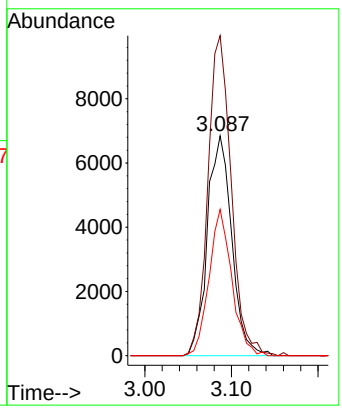




#21
trans-1,2-Dichloroethene
Concen: 4.932 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 96 Resp: 1339

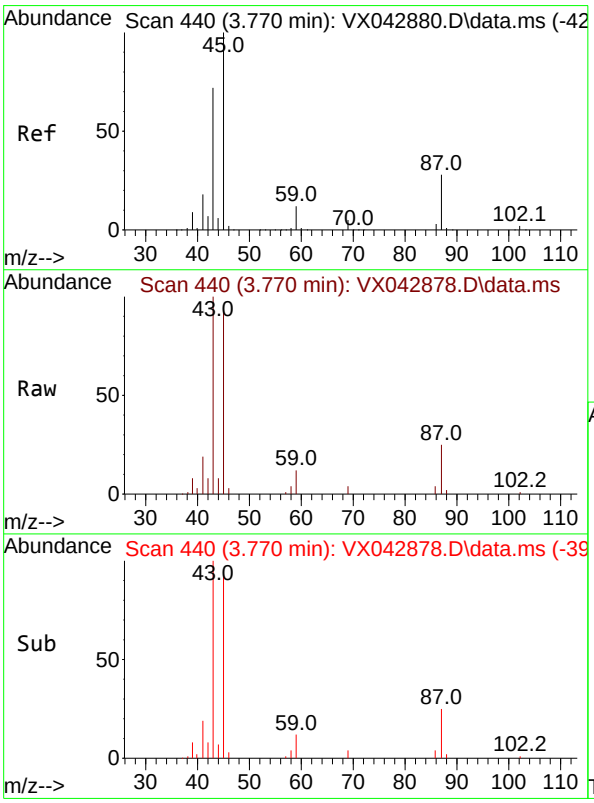
Ion	Ratio	Lower	Upper
96	100		
61	145.5	119.2	178.8
98	66.5	48.7	73.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

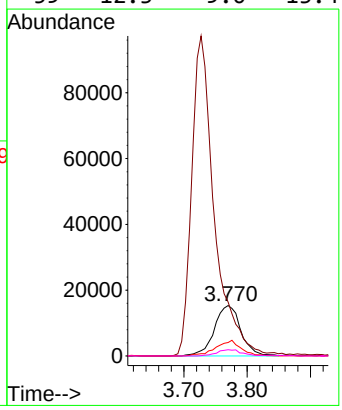
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

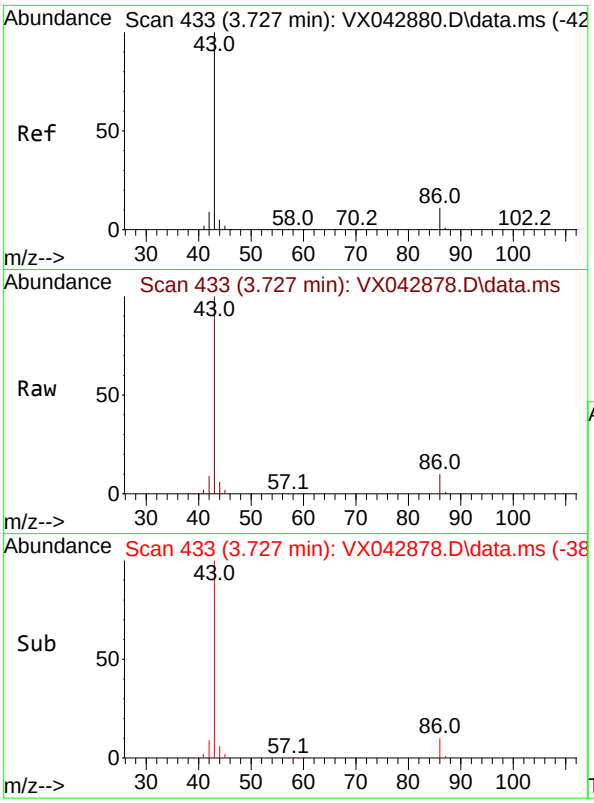


#22
Diisopropyl ether
Concen: 4.978 ug/l
RT: 3.770 min Scan# 440
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 45 Resp: 44591

Ion	Ratio	Lower	Upper
45	100		
43	102.6	69.7	104.5
87	26.8	20.8	31.2
59	12.3	9.0	13.4





#23
Vinyl Acetate
Concen: 24.027 ug/l
RT: 3.727 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

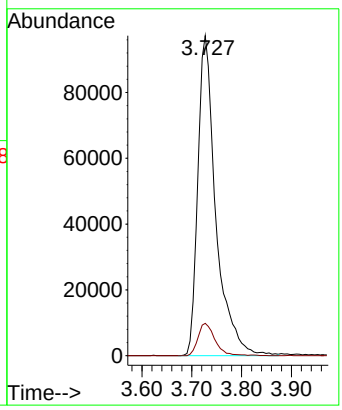
Tgt Ion: 43 Resp: 24427

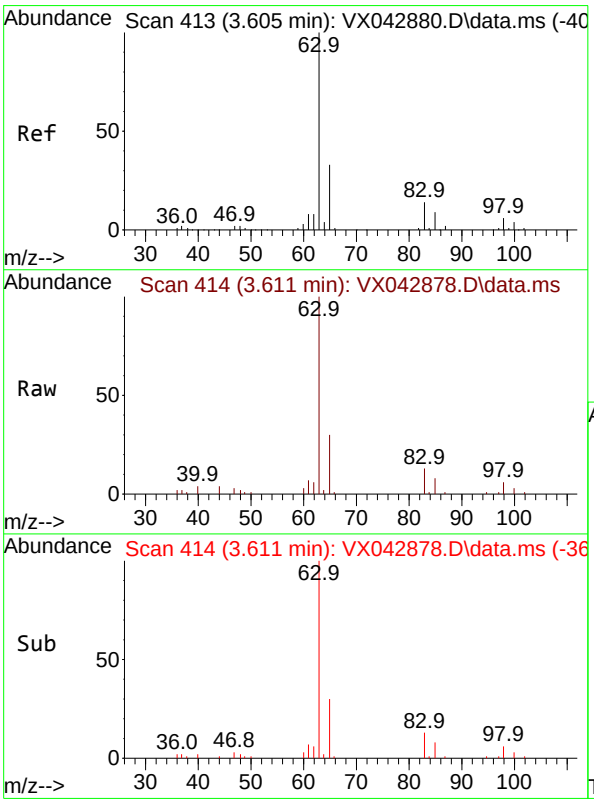
Ion	Ratio	Lower	Upper
43	100		
86	10.1	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

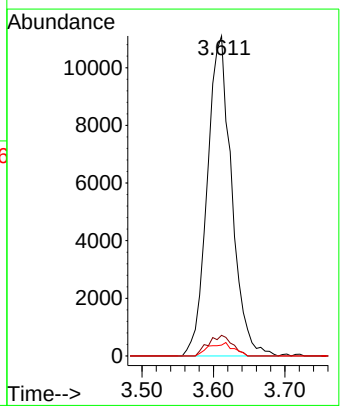


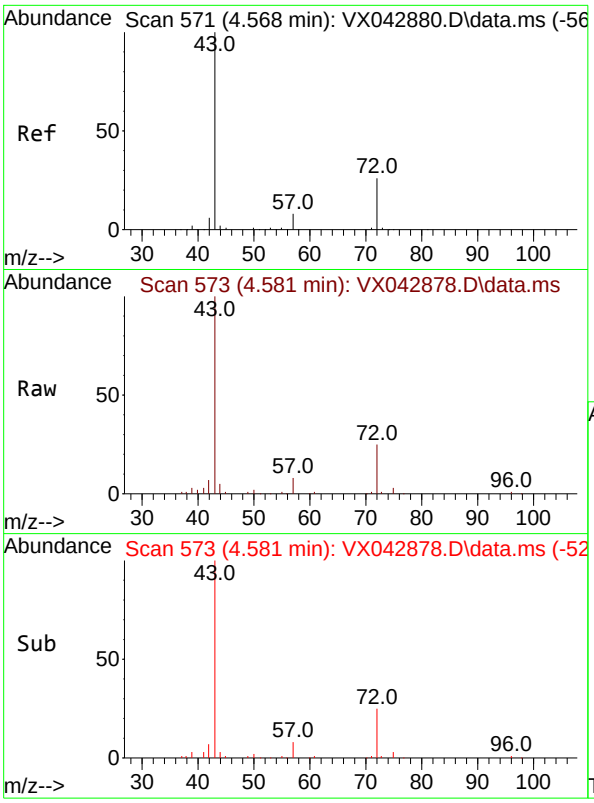


#24
1,1-Dichloroethane
Concen: 5.088 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 63 Resp: 26211

Ion	Ratio	Lower	Upper
63	100		
98	6.4	3.3	9.8
100	3.4	2.1	6.5





#25
2-Butanone
Concen: 24.712 ug/l
RT: 4.581 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

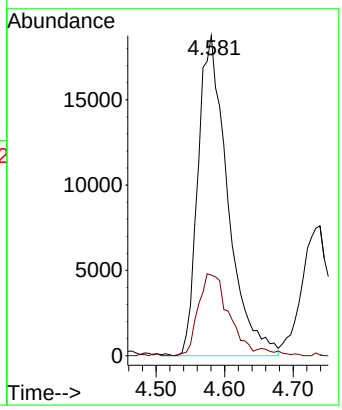
Tgt Ion: 43 Resp: 5657

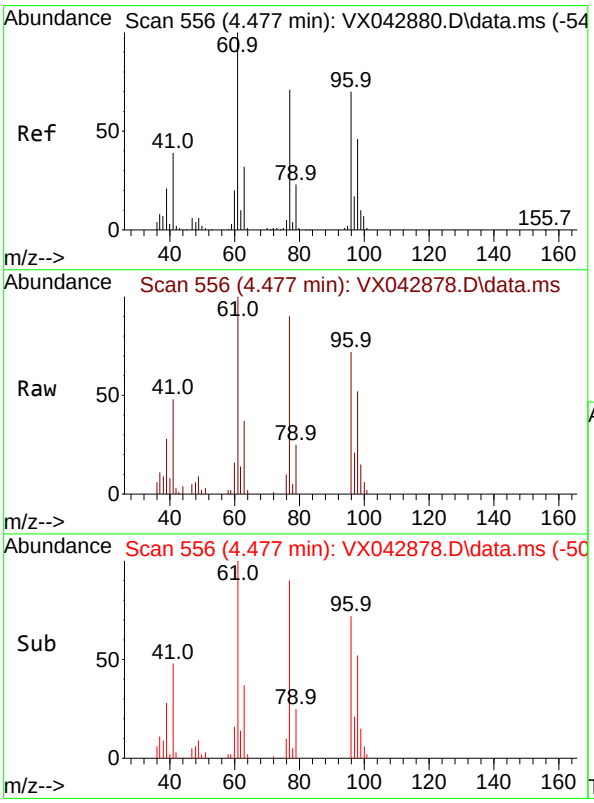
Ion	Ratio	Lower	Upper
43	100		
72	24.9	19.4	29.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

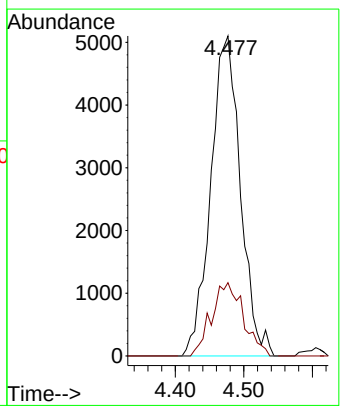


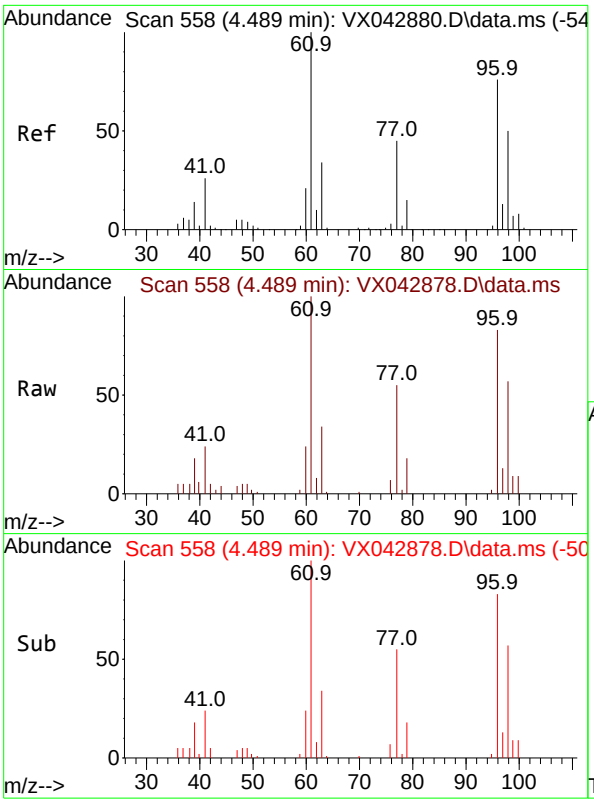


#26
2,2-Dichloropropane
Concen: 4.847 ug/l
RT: 4.477 min Scan# 556
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 77 Resp: 15351

Ion	Ratio	Lower	Upper
77	100		
97	24.5	10.8	32.3

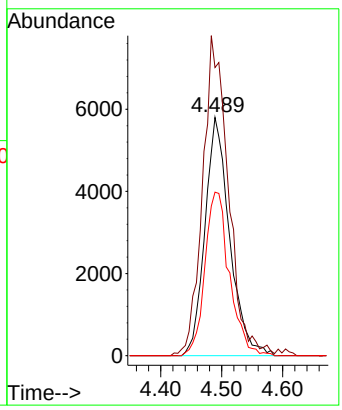




#27
cis-1,2-Dichloroethene
Concen: 5.068 ug/l
RT: 4.489 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 96 Resp: 1631

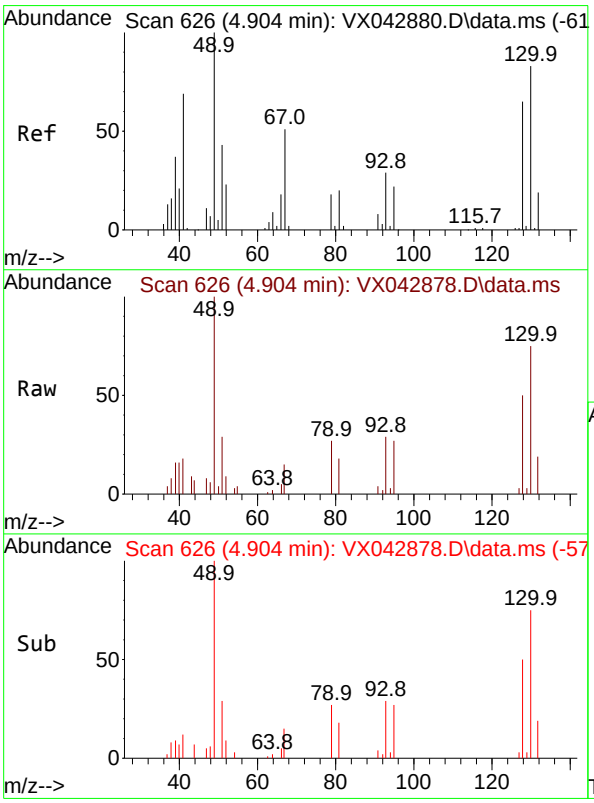
Ion	Ratio	Lower	Upper
96	100		
61	140.0	0.0	312.2
98	68.3	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

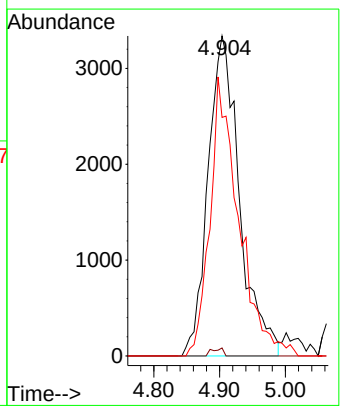
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

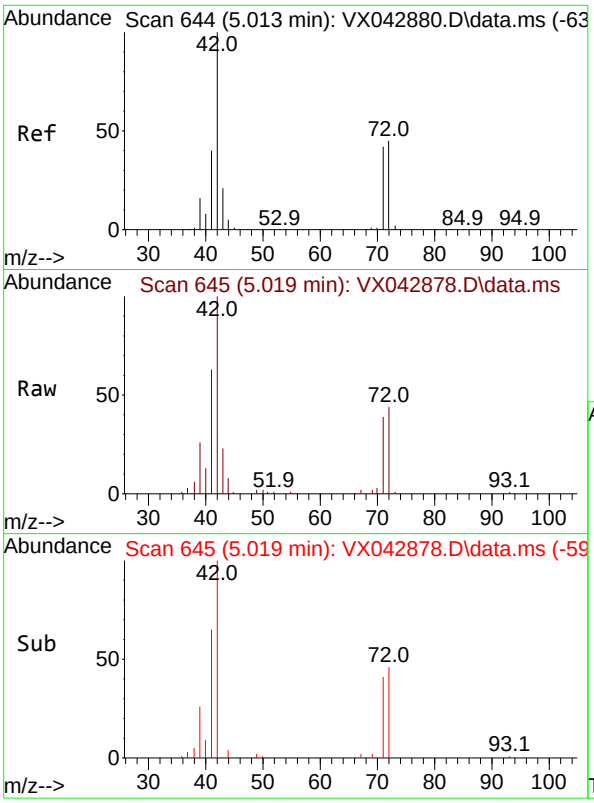


#28
Bromochloromethane
Concen: 5.611 ug/l
RT: 4.904 min Scan# 626
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 49 Resp: 11092

Ion	Ratio	Lower	Upper
49	100		
129	0.9	0.0	3.8
130	79.6	57.5	86.3





#29
Tetrahydrofuran
Concen: 25.298 ug/l
RT: 5.019 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

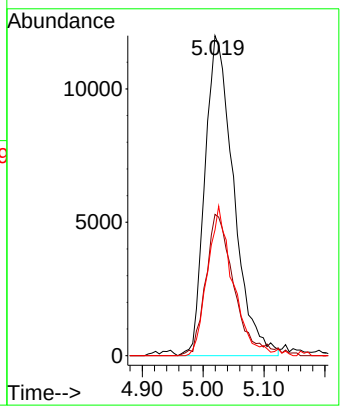
Tgt Ion: 42 Resp: 3913

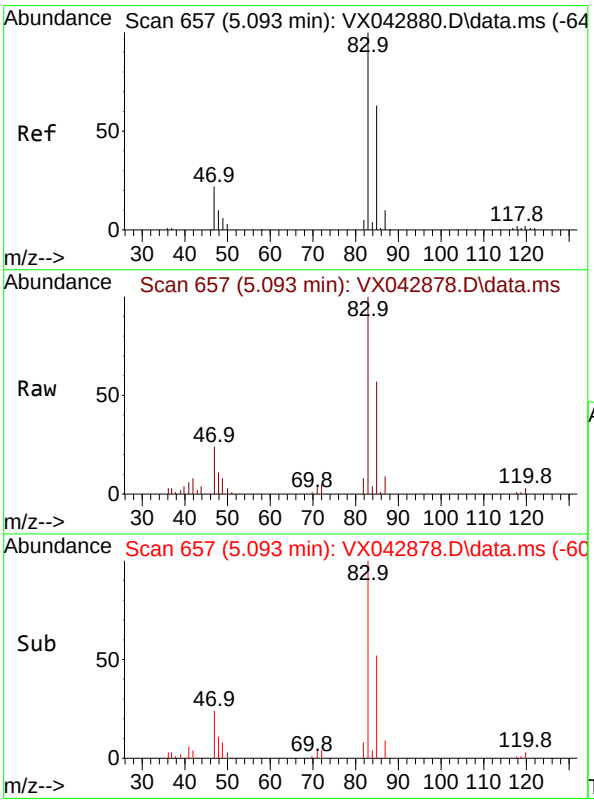
Ion	Ratio	Lower	Upper
42	100		
72	44.2	34.2	51.4
71	41.7	32.2	48.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

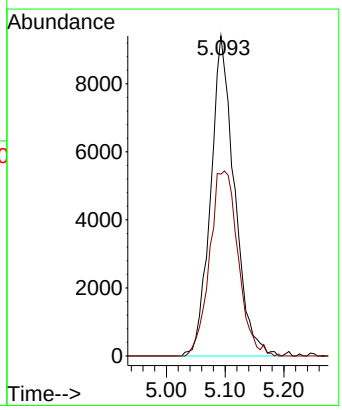


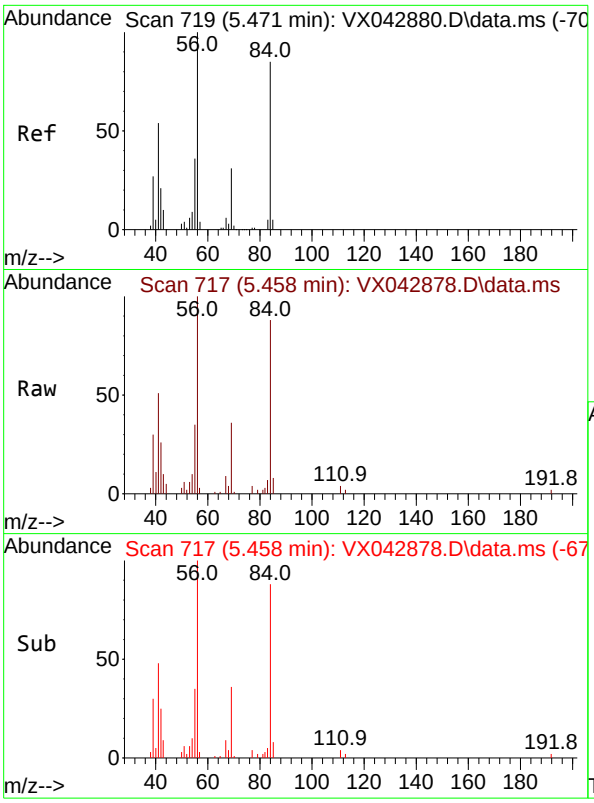


#30
Chloroform
Concen: 4.917 ug/l
RT: 5.093 min Scan# 657
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 83 Resp: 26518

Ion	Ratio	Lower	Upper
83	100		
85	56.8	50.3	75.5

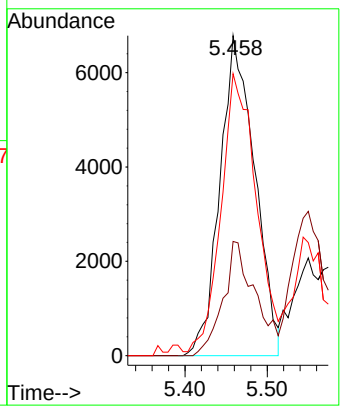




#31
Cyclohexane
Concen: 4.753 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 56 Resp: 1999

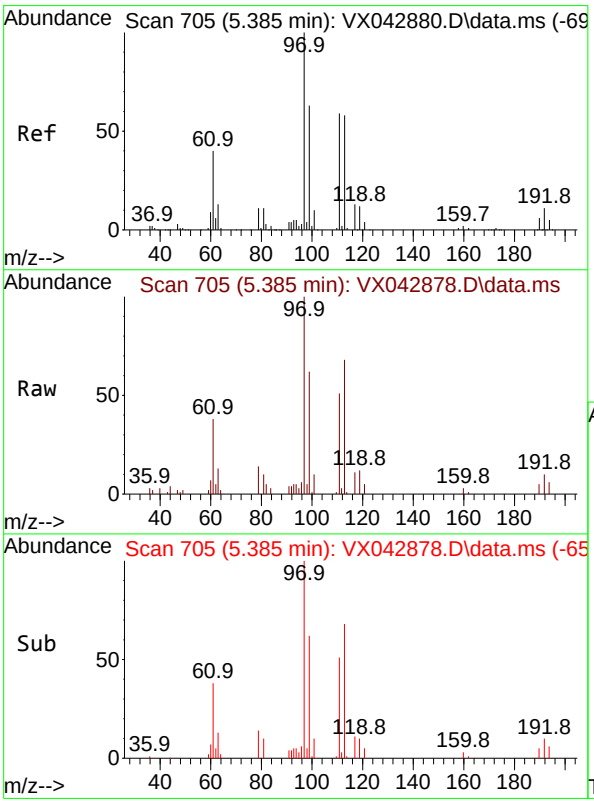
Ion	Ratio	Lower	Upper
56	100		
69	35.7	23.4	35.2
84	84.8	65.9	98.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

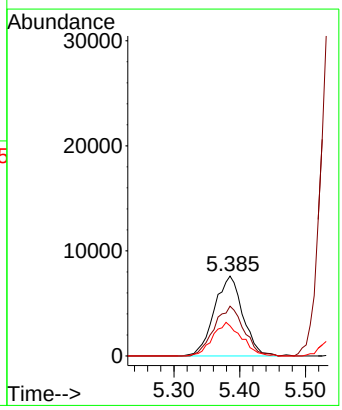
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

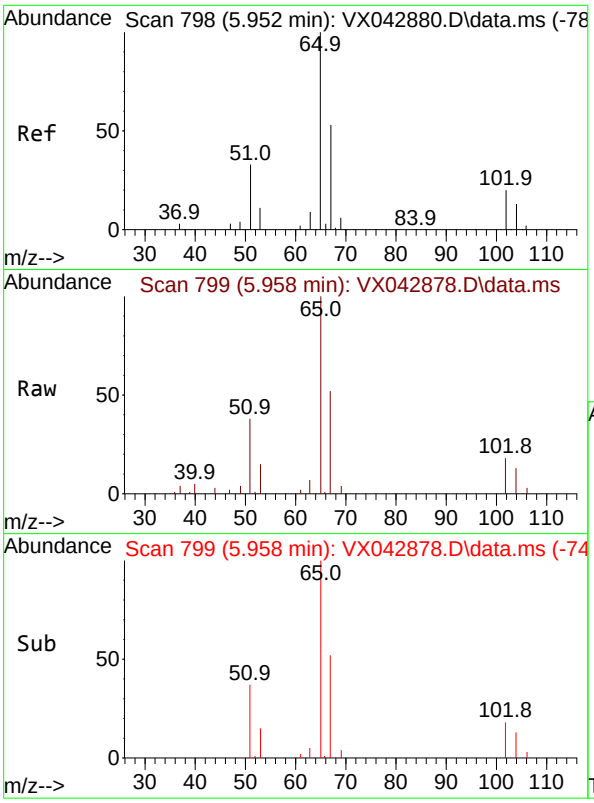


#32
1,1,1-Trichloroethane
Concen: 4.832 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 97 Resp: 22944

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.1	76.7
61	42.3	36.4	54.6





#33
1,2-Dichloroethane-d4
Concen: 5.287 ug/l
RT: 5.958 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

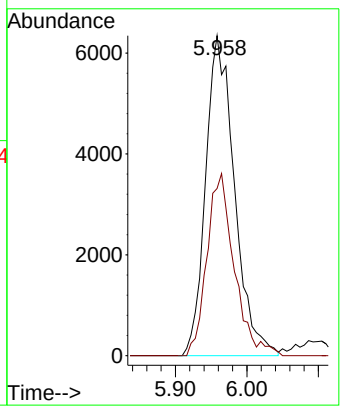
Tgt Ion: 65 Resp: 1777

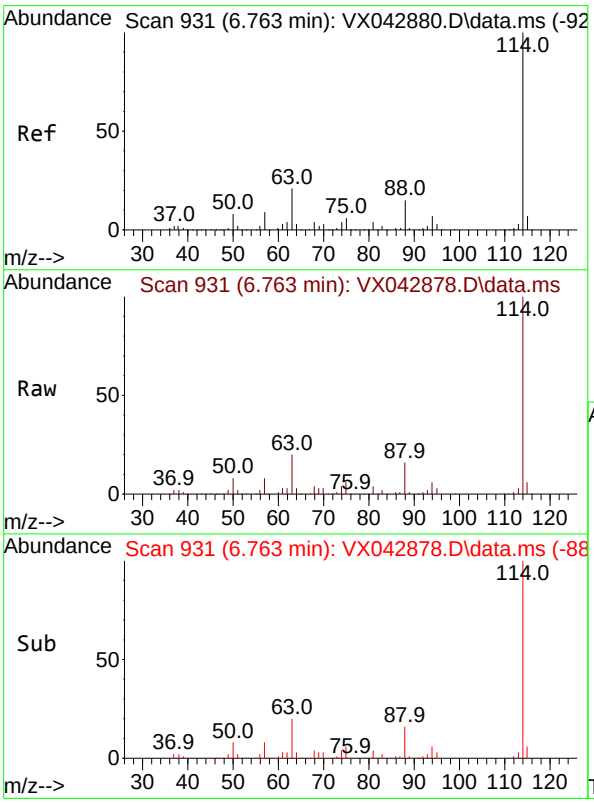
Ion	Ratio	Lower	Upper
65	100		
67	53.8	0.0	100.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

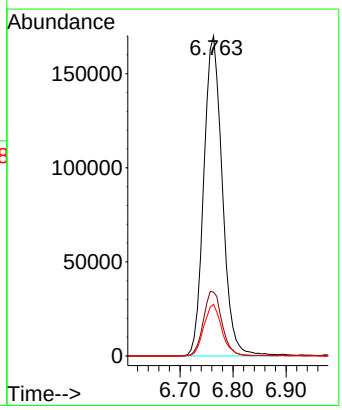


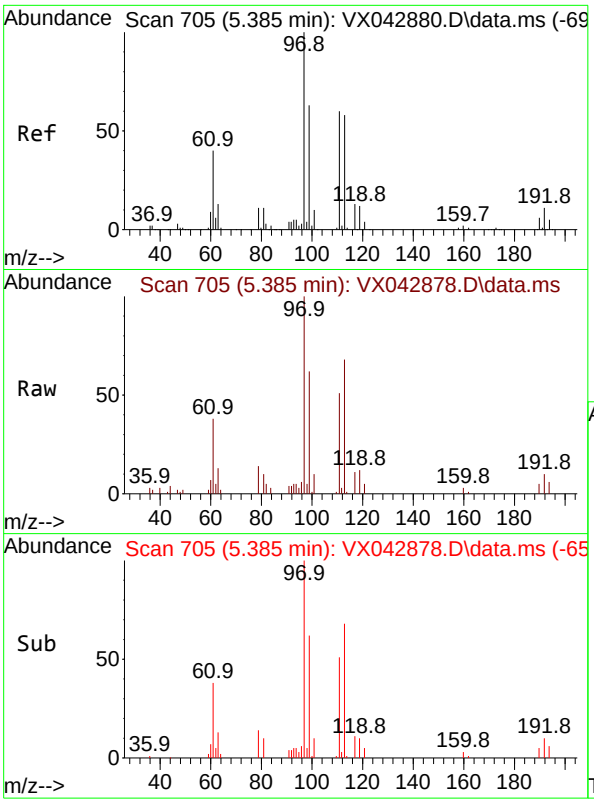


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. 0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion:114 Resp: 412487

Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	45.0
88	16.1	0.0	36.6

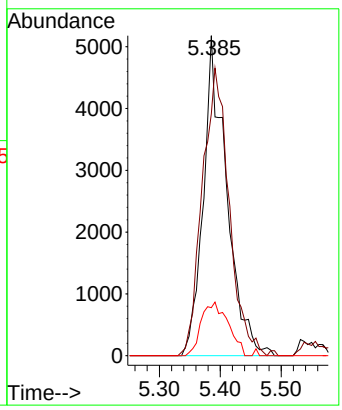




#35
Dibromofluoromethane
Concen: 5.092 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion:113 Resp: 1373

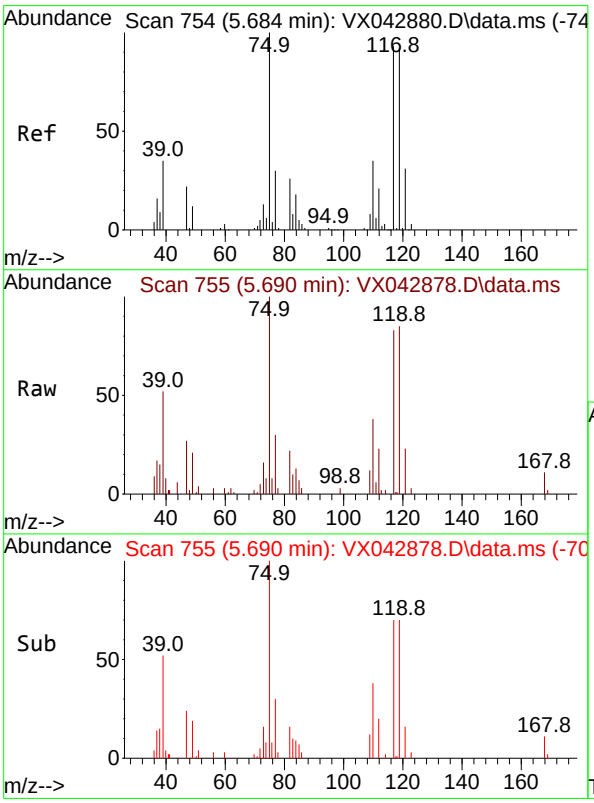
Ion	Ratio	Lower	Upper
113	100		
111	103.5	82.9	124.3
192	19.4	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

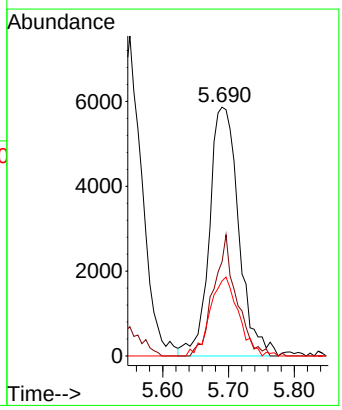
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

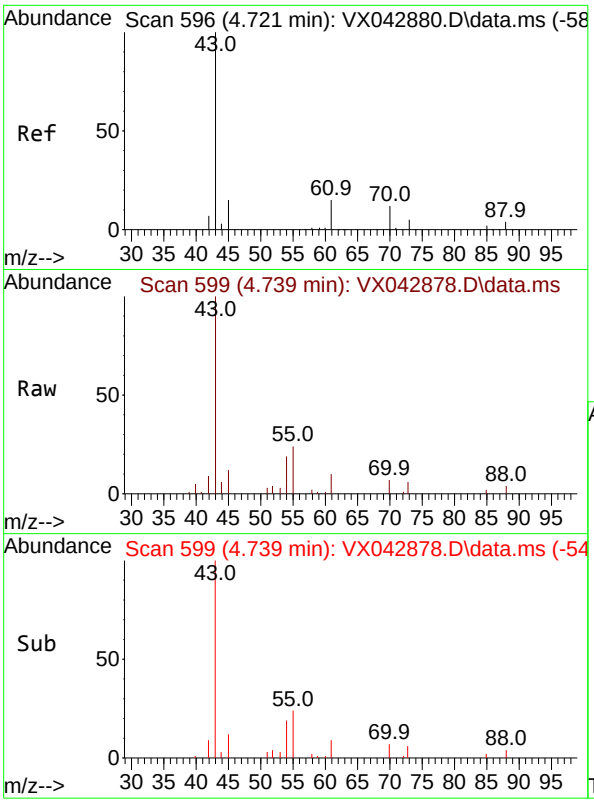


#36
1,1-Dichloropropene
Concen: 4.973 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.006 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 75 Resp: 18183

Ion	Ratio	Lower	Upper
75	100		
110	37.8	17.0	50.9
77	30.5	24.7	37.1

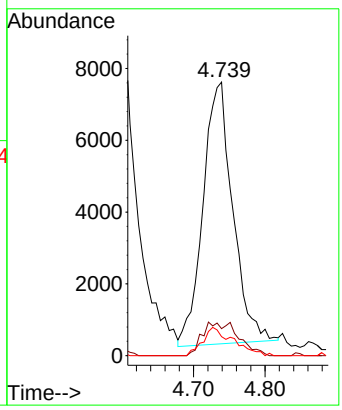




#37
Ethyl Acetate
Concen: 4.611 ug/l
RT: 4.739 min Scan# 5
Delta R.T. 0.018 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 43 Resp: 2109

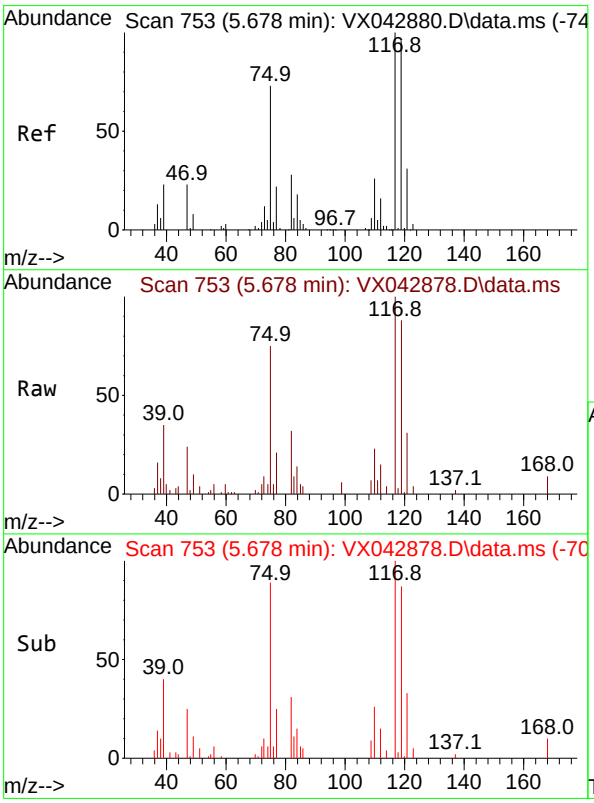
Ion	Ratio	Lower	Upper
43	100		
61	15.5	10.6	16.0
70	11.1	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

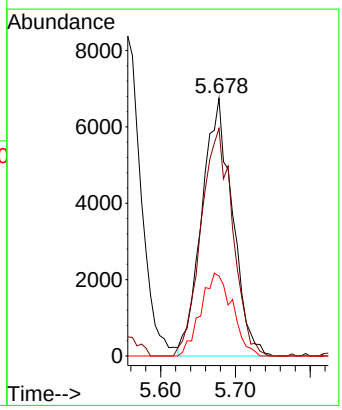
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

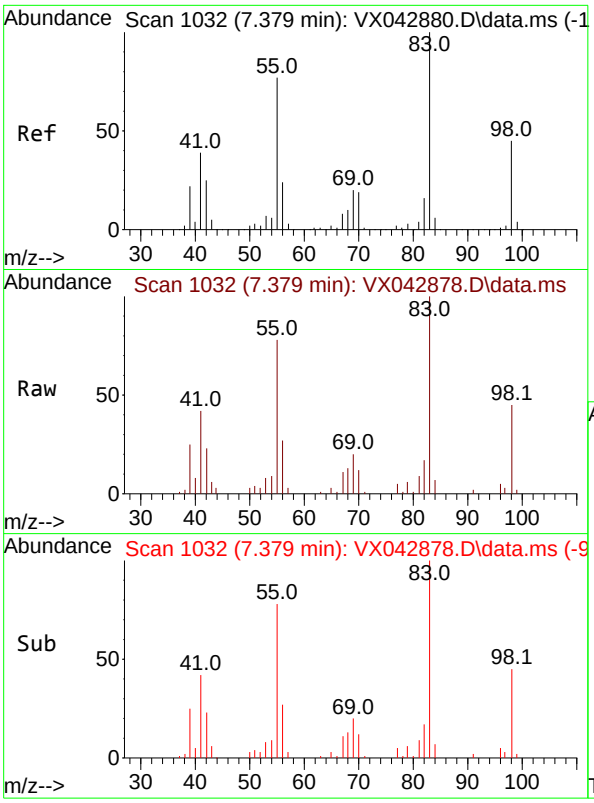


#38
Carbon Tetrachloride
Concen: 4.642 ug/l
RT: 5.678 min Scan# 753
Delta R.T. 0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion:117 Resp: 19163

Ion	Ratio	Lower	Upper
117	100		
119	88.3	78.2	117.2
121	31.1	24.4	36.6

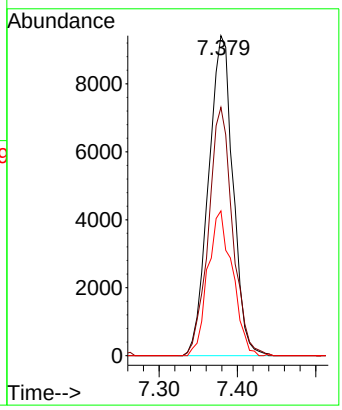




#39
Methylcyclohexane
Concen: 4.710 ug/l
RT: 7.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 83 Resp: 2047

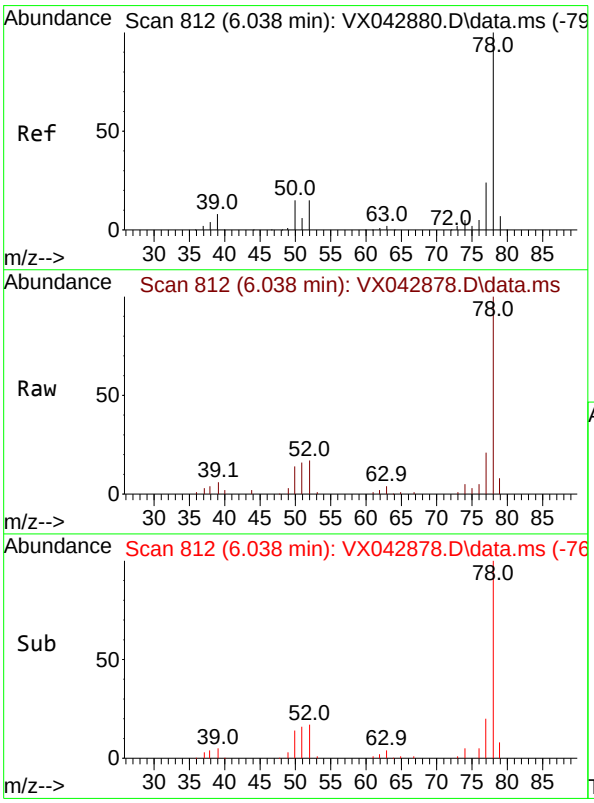
Ion	Ratio	Lower	Upper
83	100		
55	77.6	64.6	97.0
98	45.3	36.7	55.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

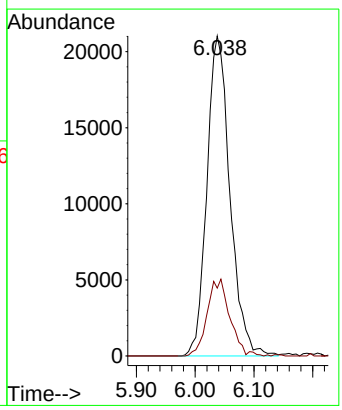
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

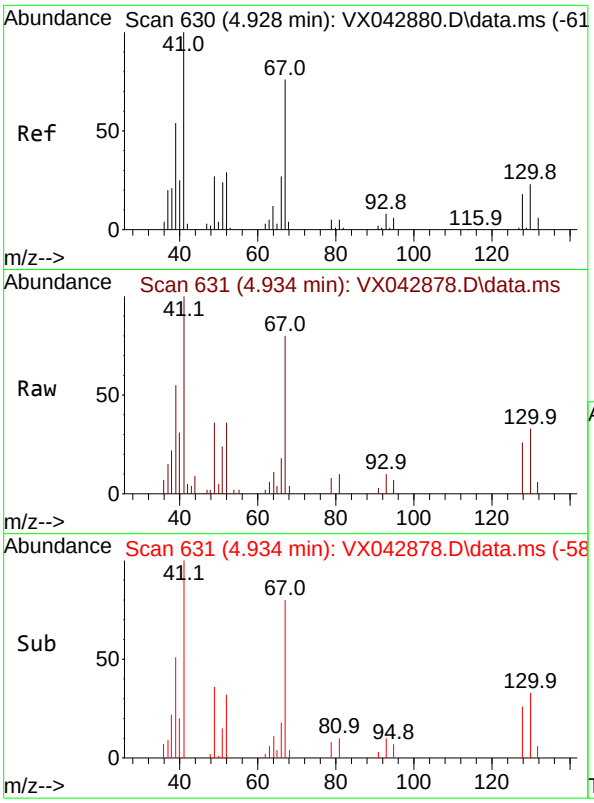


#40
Benzene
Concen: 5.054 ug/l
RT: 6.038 min Scan# 812
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 78 Resp: 57360

Ion	Ratio	Lower	Upper
78	100		
77	21.2	19.3	28.9

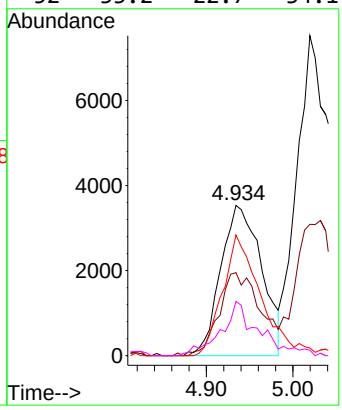




#41
Methacrylonitrile
Concen: 4.933 ug/l
RT: 4.934 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 41 Resp: 1162

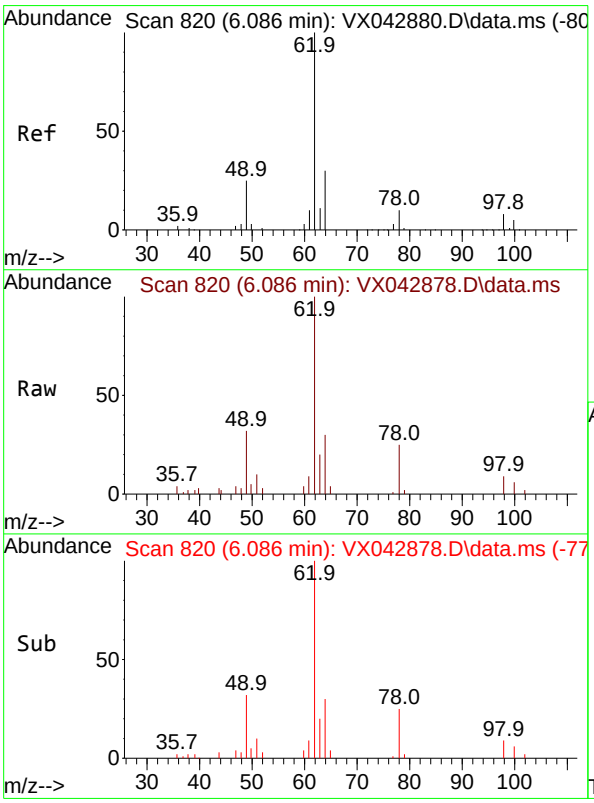
Ion	Ratio	Lower	Upper
41	100		
39	55.8	45.2	67.8
67	74.7	52.6	78.8
52	33.2	22.7	34.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

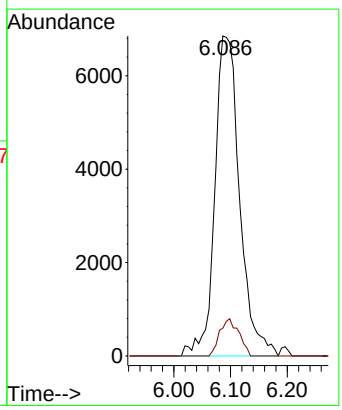
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

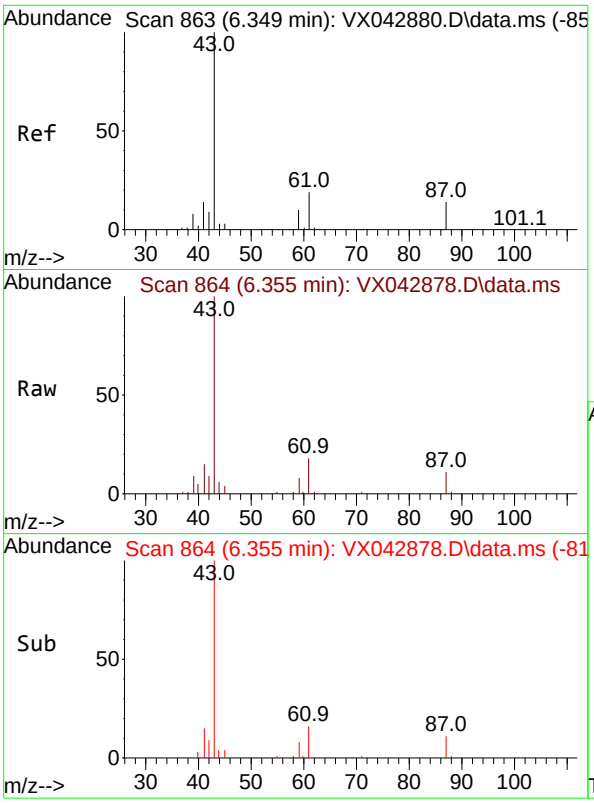


#42
1,2-Dichloroethane
Concen: 5.049 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 62 Resp: 20840

Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	16.0

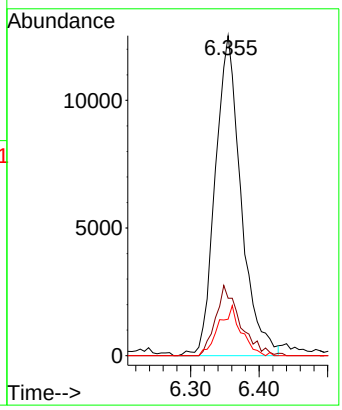




#43
Isopropyl Acetate
Concen: 4.830 ug/l
RT: 6.355 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 43 Resp: 3267

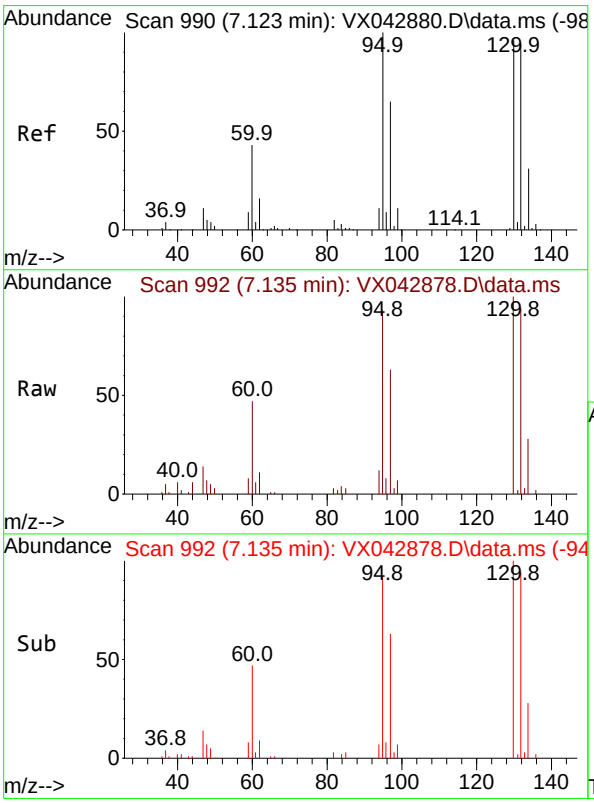
Ion	Ratio	Lower	Upper
43	100		
61	21.0	15.2	22.8
87	13.6	9.8	14.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

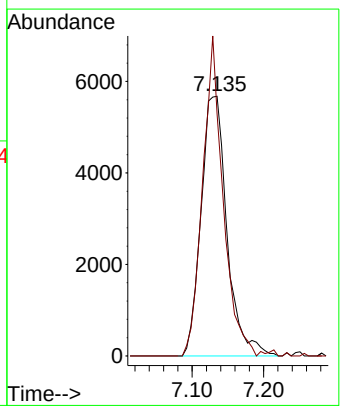
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

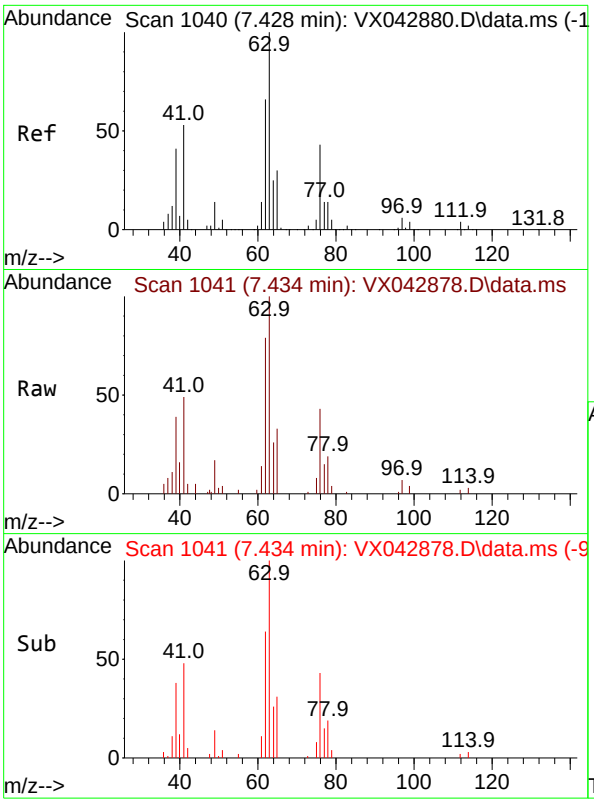


#44
Trichloroethene
Concen: 5.018 ug/l
RT: 7.135 min Scan# 992
Delta R.T. 0.012 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion:130 Resp: 14308

Ion	Ratio	Lower	Upper
130	100		
95	93.2	0.0	204.4





#45
1,2-Dichloropropane
Concen: 4.922 ug/l
RT: 7.434 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

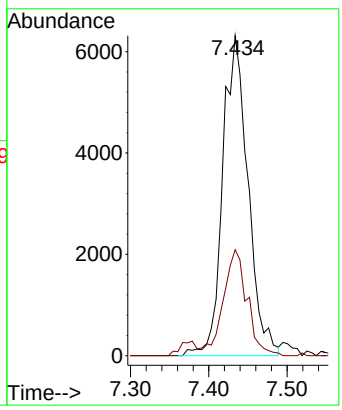
Tgt Ion: 63 Resp: 1417

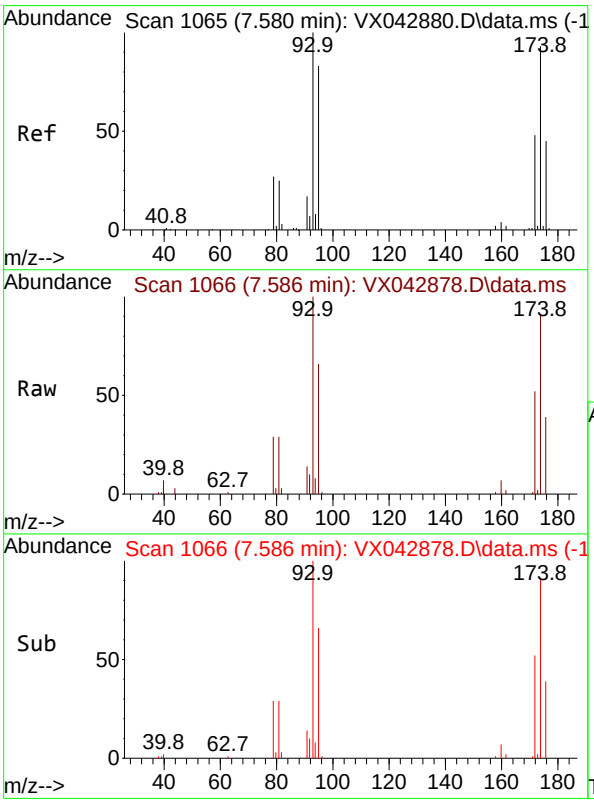
Ion	Ratio	Lower	Upper
63	100		
65	32.3	24.3	36.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

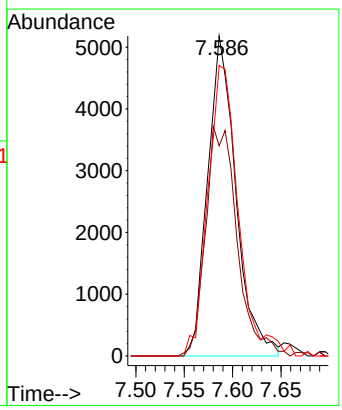


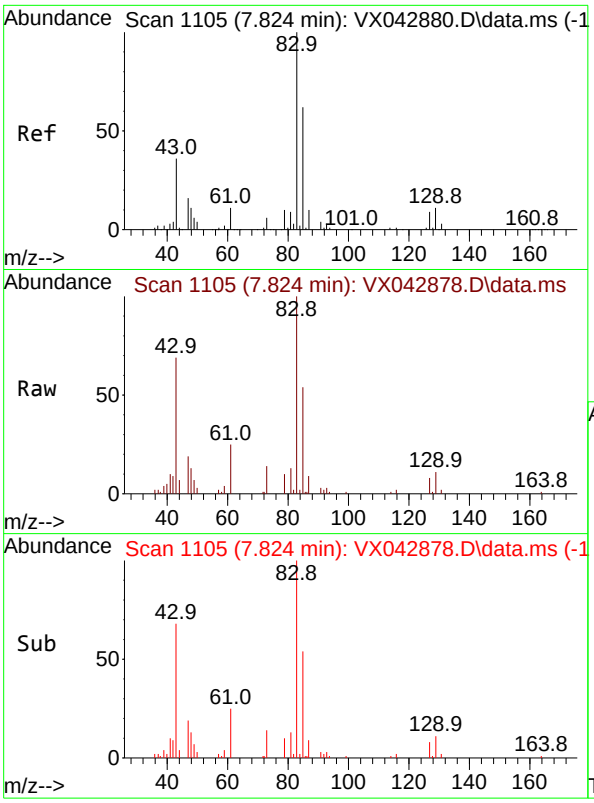


#46
Dibromomethane
Concen: 4.967 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 93 Resp: 10502

Ion	Ratio	Lower	Upper
93	100		
95	80.3	66.6	100.0
174	98.2	69.4	104.0

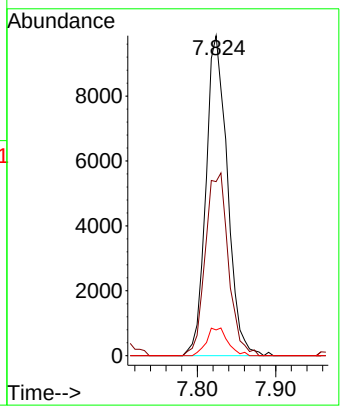




#47
Bromodichloromethane
Concen: 4.776 ug/l
RT: 7.824 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 83 Resp: 1875

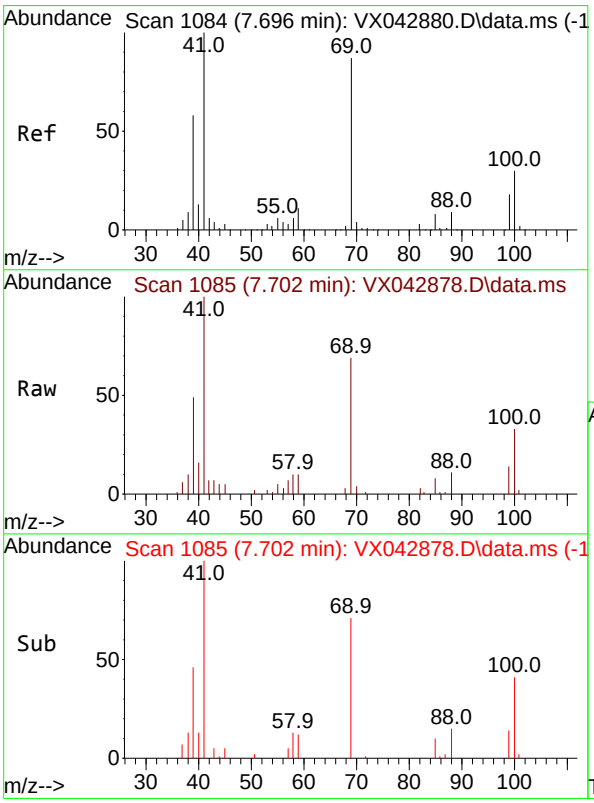
Ion	Ratio	Lower	Upper
83	100		
85	54.4	49.8	74.6
127	8.0	7.1	10.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

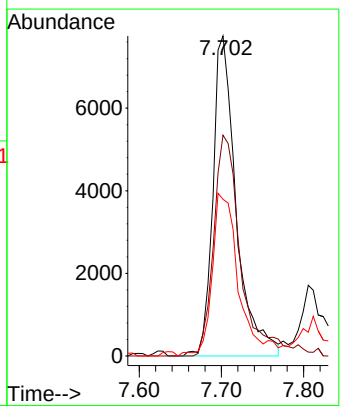
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

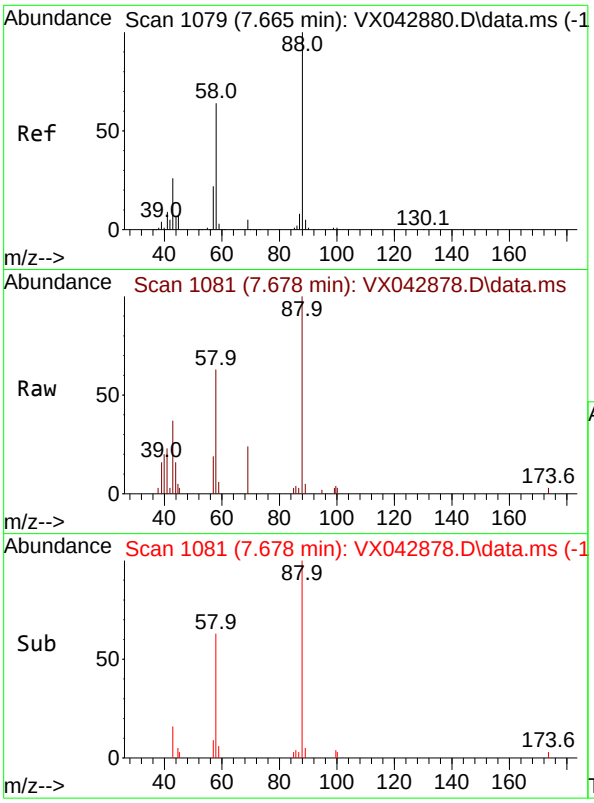


#48
Methyl methacrylate
Concen: 4.713 ug/l
RT: 7.702 min Scan# 1085
Delta R.T. 0.006 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 41 Resp: 15292

Ion	Ratio	Lower	Upper
41	100		
69	81.4	59.2	88.8
39	58.7	47.7	71.5

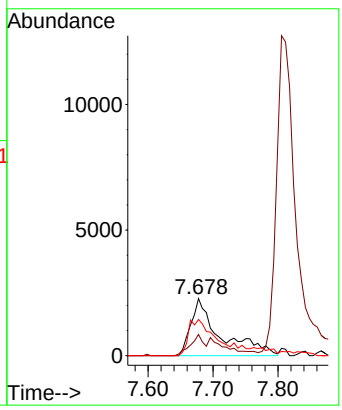




#49
1,4-Dioxane
Concen: 104.145 ug/l m
RT: 7.678 min Scan# 1
Delta R.T. 0.013 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 88 Resp: 712

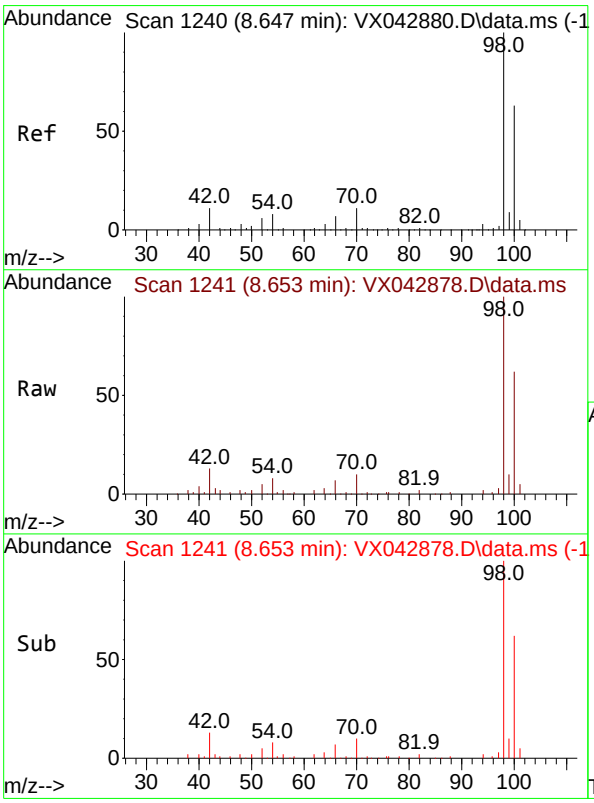
Ion	Ratio	Lower	Upper
88	100		
43	17.2	0.0	0.0#
58	54.3	60.1	90.1#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

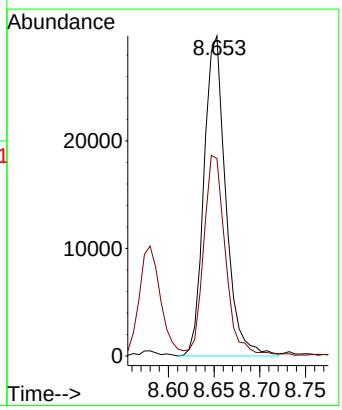
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

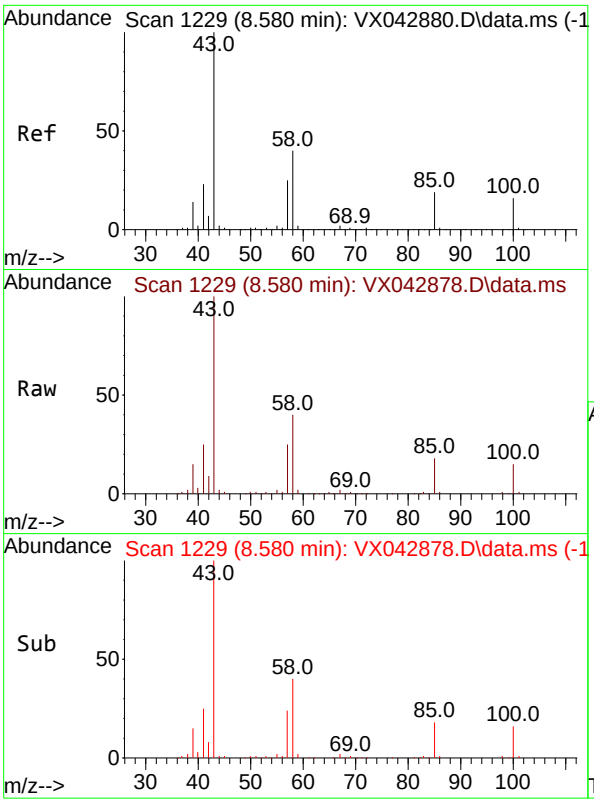


#50
Toluene-d8
Concen: 5.149 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.006 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 98 Resp: 49296

Ion	Ratio	Lower	Upper
98	100		
100	62.3	53.1	79.7





#51
4-Methyl-2-Pentanone
Concen: 25.020 ug/l
RT: 8.580 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

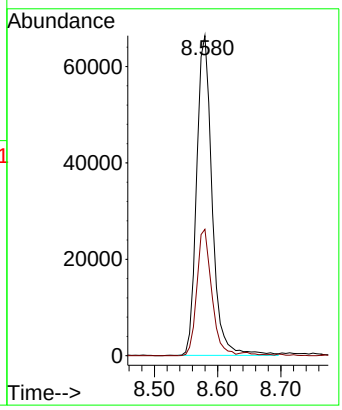
Tgt Ion: 43 Resp: 11339

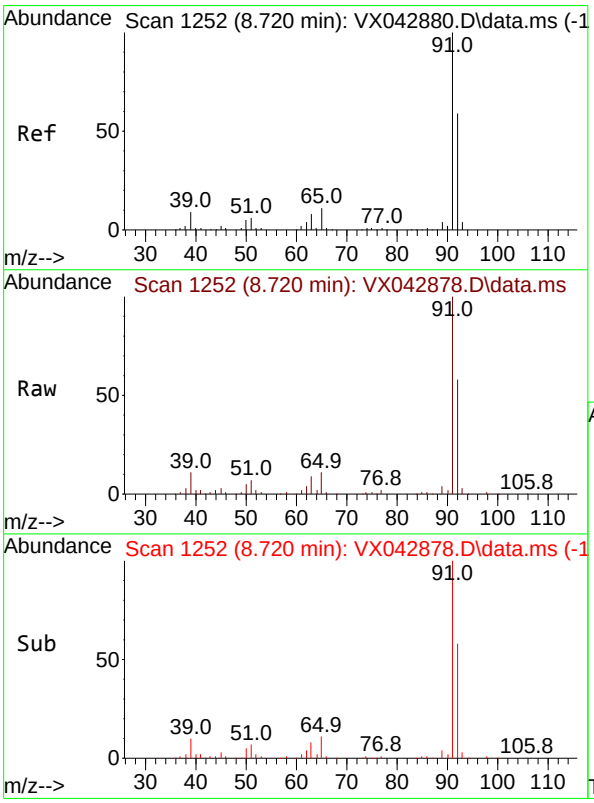
Ion	Ratio	Lower	Upper
43	100		
58	37.9	30.4	45.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

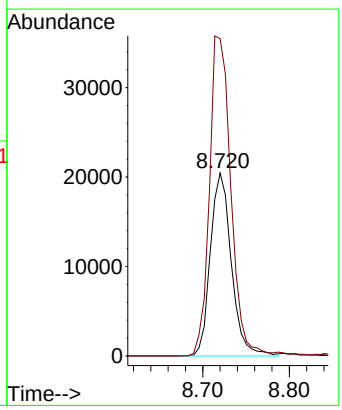


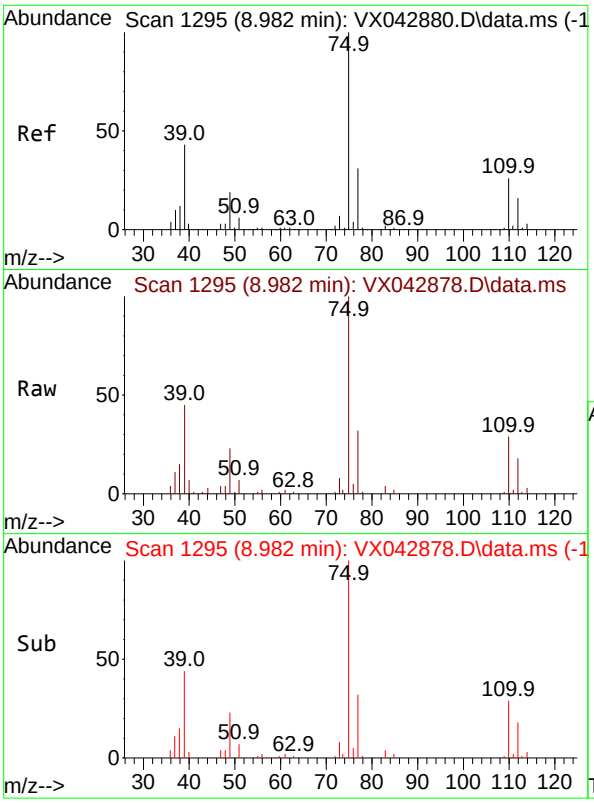


#52
Toluene
Concen: 5.010 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 92 Resp: 34491

Ion	Ratio	Lower	Upper
92	100		
91	179.6	134.2	201.2

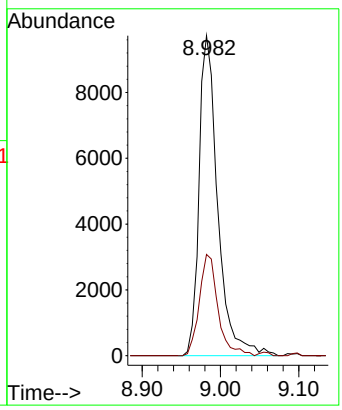




#53
t-1,3-Dichloropropene
Concen: 4.431 ug/l
RT: 8.982 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 75 Resp: 1609

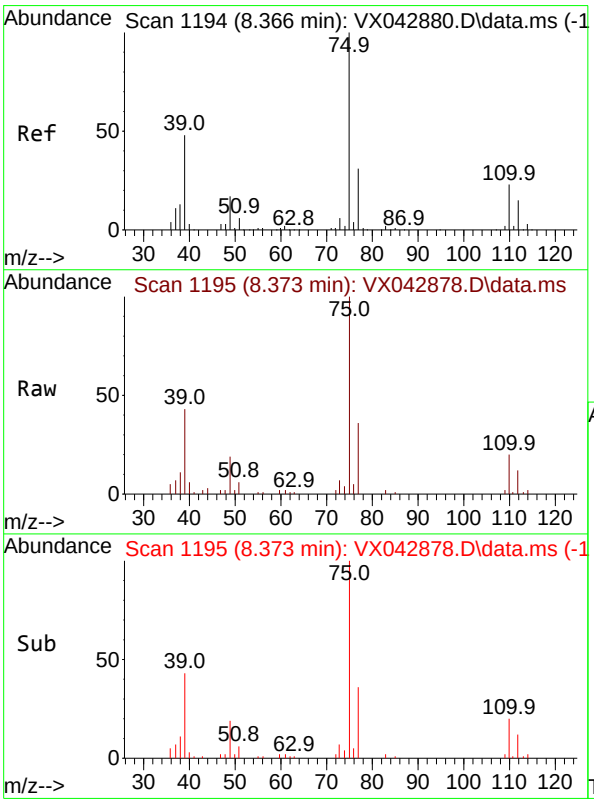
Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

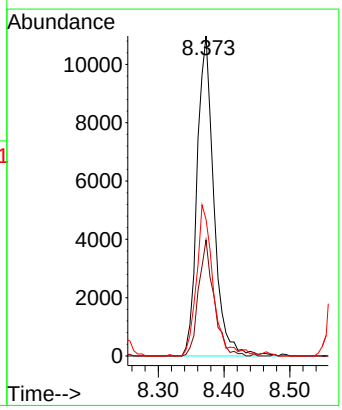
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

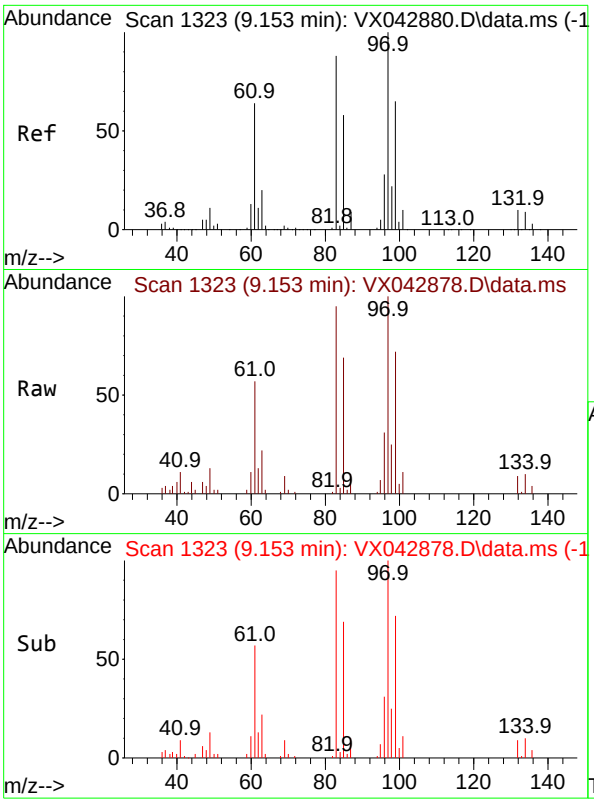


#54
cis-1,3-Dichloropropene
Concen: 4.810 ug/l
RT: 8.373 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 75 Resp: 19288

Ion	Ratio	Lower	Upper
75	100		
77	36.2	25.3	37.9
39	42.6	46.7	70.1#

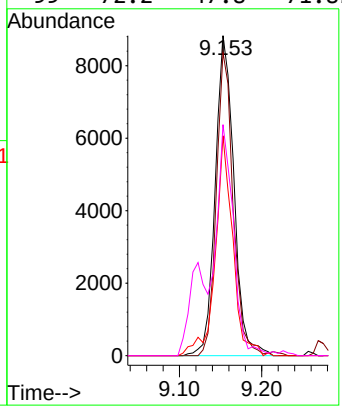




#55
1,1,2-Trichloroethane
Concen: 4.998 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 97 Resp: 1398

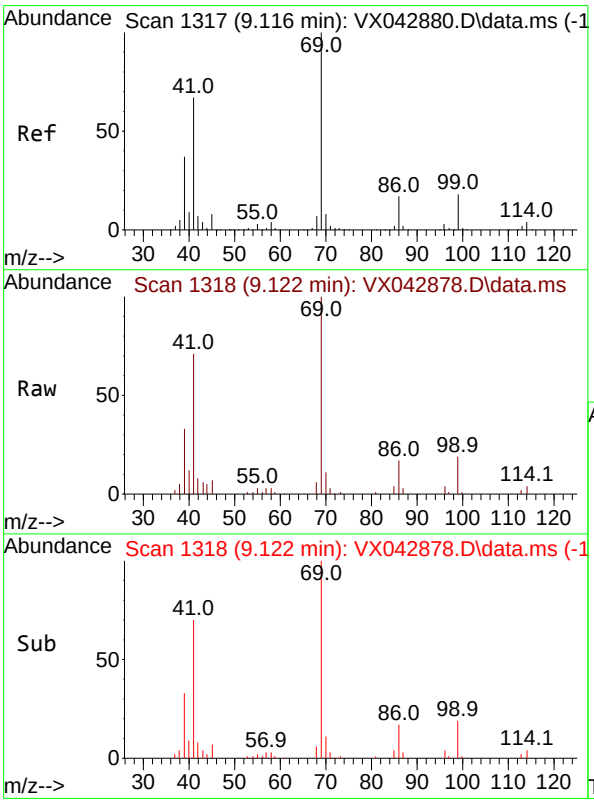
Ion	Ratio	Lower	Upper
97	100		
83	94.7	65.8	98.8
85	68.7	41.6	62.4#
99	72.2	47.8	71.8#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

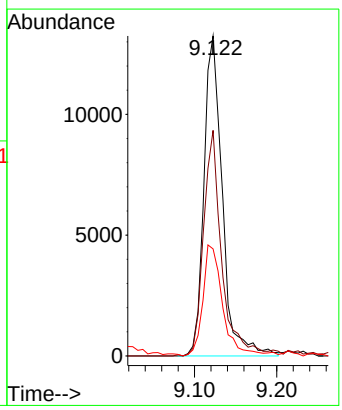
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

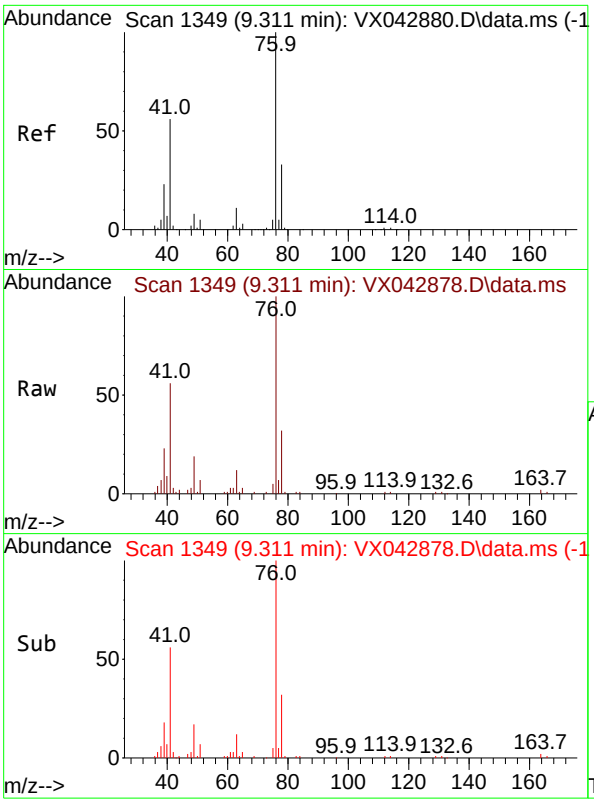


#56
Ethyl methacrylate
Concen: 4.582 ug/l
RT: 9.122 min Scan# 1318
Delta R.T. 0.006 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 69 Resp: 20632

Ion	Ratio	Lower	Upper
69	100		
41	69.9	56.8	85.2
39	37.6	32.0	48.0

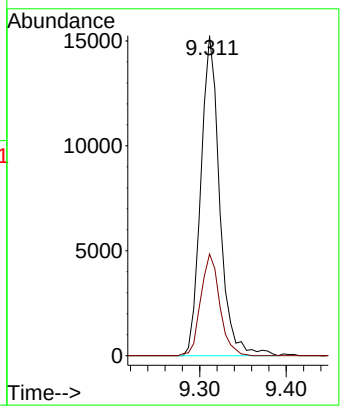




#57
1,3-Dichloropropane
Concen: 5.022 ug/l
RT: 9.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 76 Resp: 2302

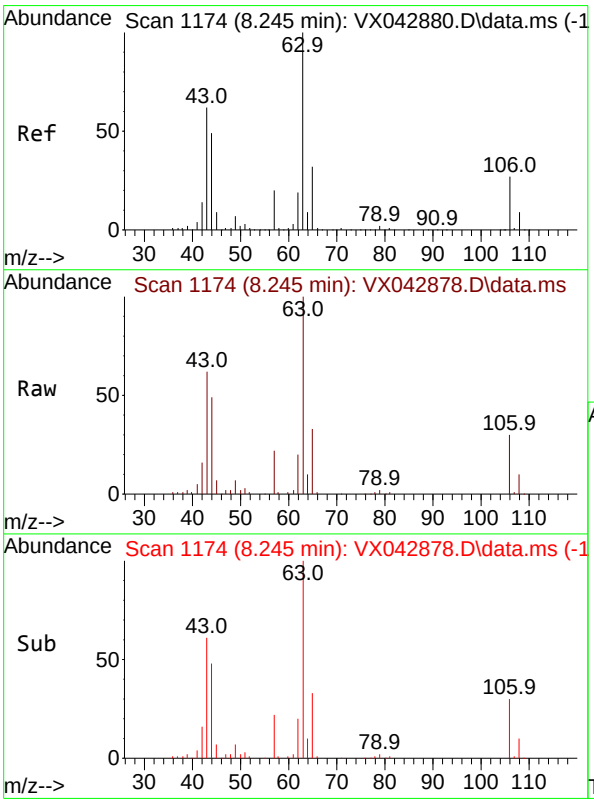
Ion	Ratio	Lower	Upper
76	100		
78	31.9	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

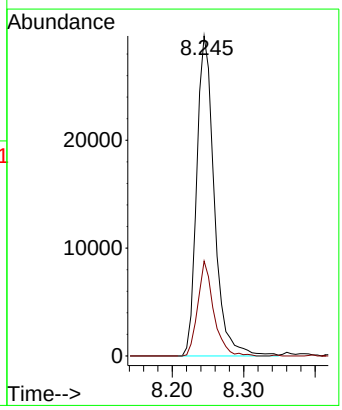
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

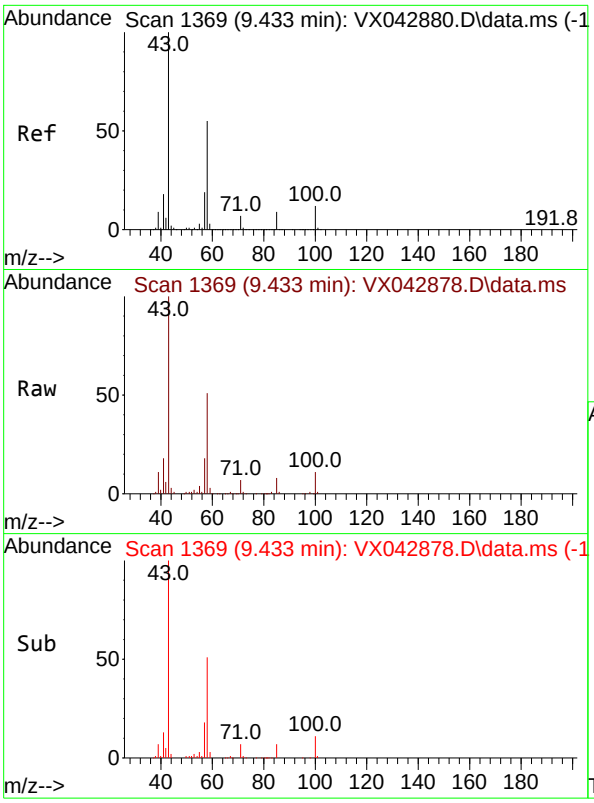


#58
2-Chloroethyl Vinyl ether
Concen: 23.838 ug/l
RT: 8.245 min Scan# 1174
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 63 Resp: 50594

Ion	Ratio	Lower	Upper
63	100		
106	26.8	22.5	33.7





#59
2-Hexanone
Concen: 24.449 ug/l
RT: 9.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

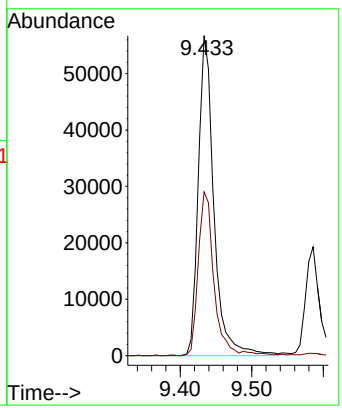
Tgt Ion: 43 Resp: 8586

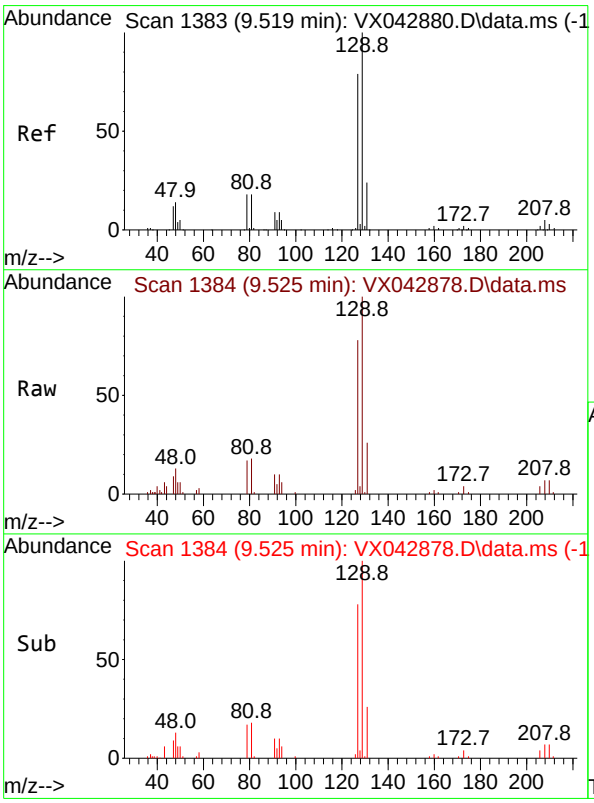
Ion	Ratio	Lower	Upper
43	100		
58	52.2	26.2	78.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

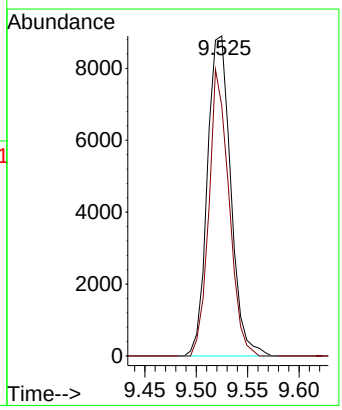


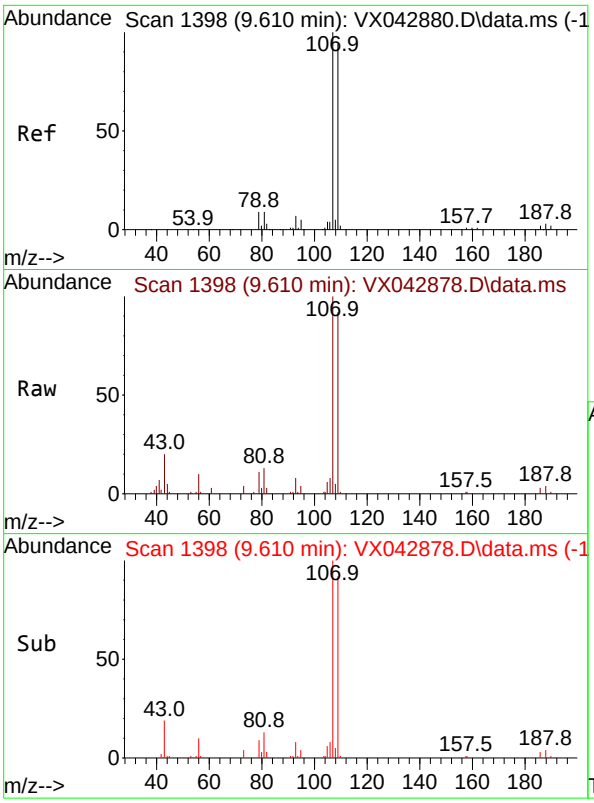


#60
Dibromochloromethane
Concen: 4.576 ug/l
RT: 9.525 min Scan# 1384
Delta R.T. 0.006 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion:129 Resp: 14068

Ion	Ratio	Lower	Upper
129	100		
127	77.0	38.8	116.4





#61
1,2-Dibromoethane
Concen: 4.911 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

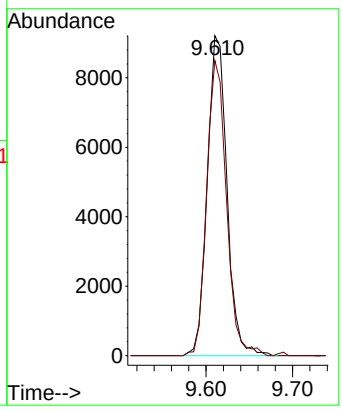
Tgt Ion:107 Resp: 1452

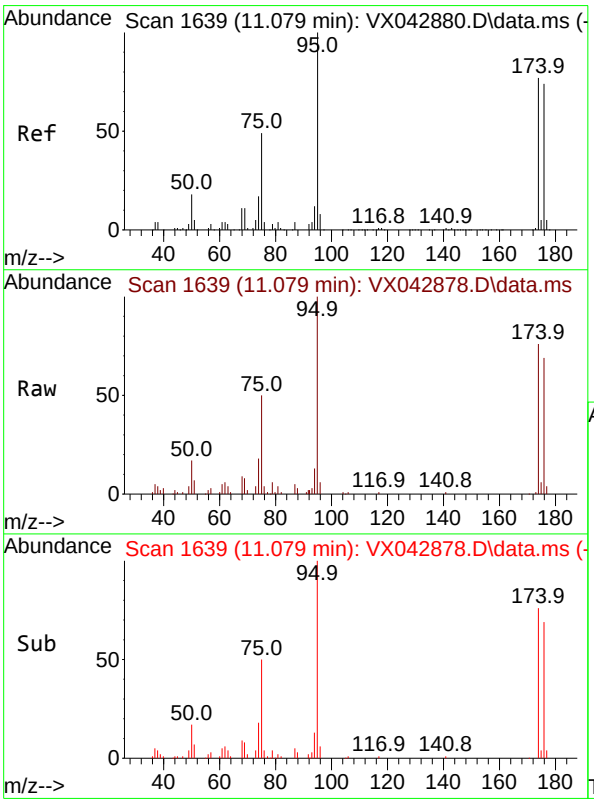
Ion	Ratio	Lower	Upper
107	100		
109	92.9	75.2	112.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

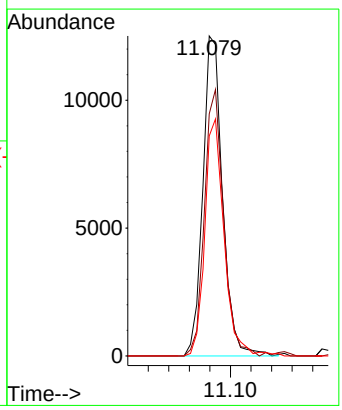


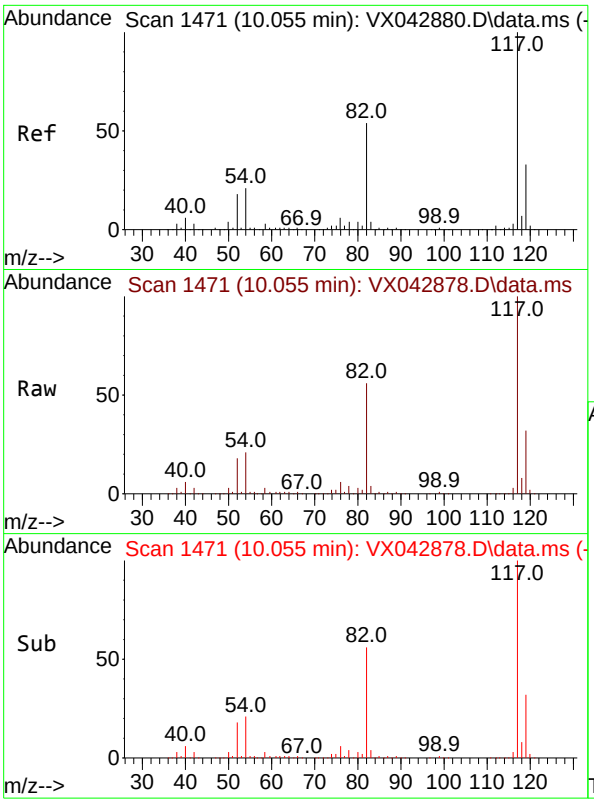


#62
4-Bromofluorobenzene
Concen: 4.840 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 95 Resp: 16652

Ion	Ratio	Lower	Upper
95	100		
174	81.3	0.0	135.6
176	72.8	0.0	131.0

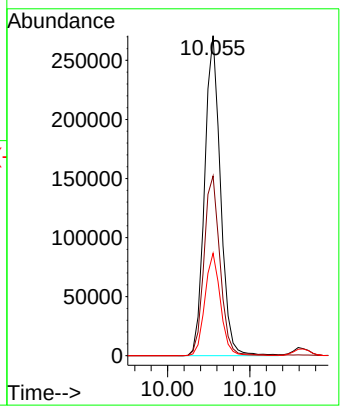




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion:117 Resp: 36325

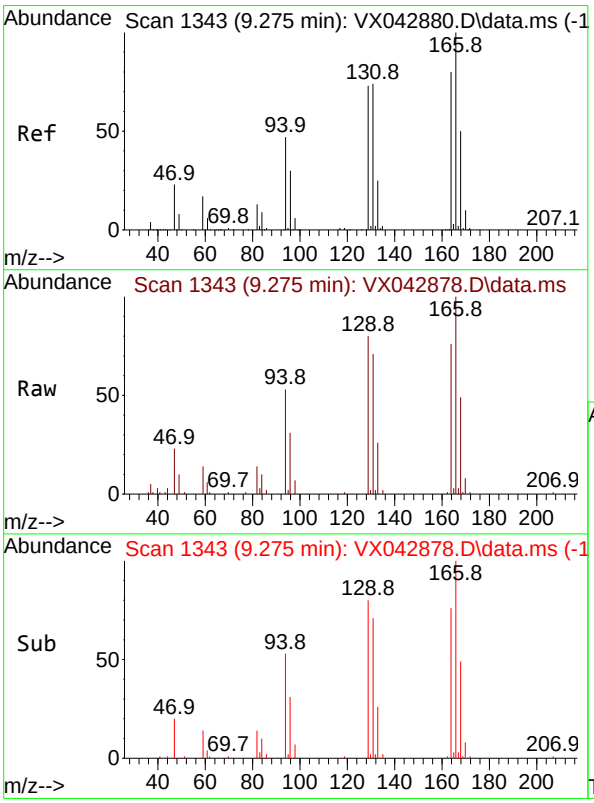
Ion	Ratio	Lower	Upper
117	100		
82	56.2	46.2	69.4
119	32.0	25.5	38.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

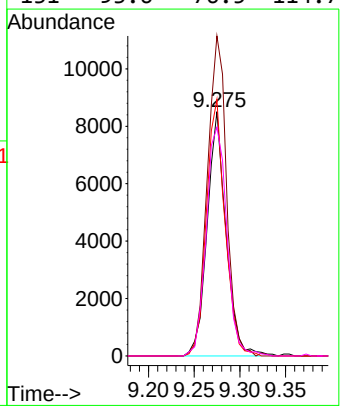
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

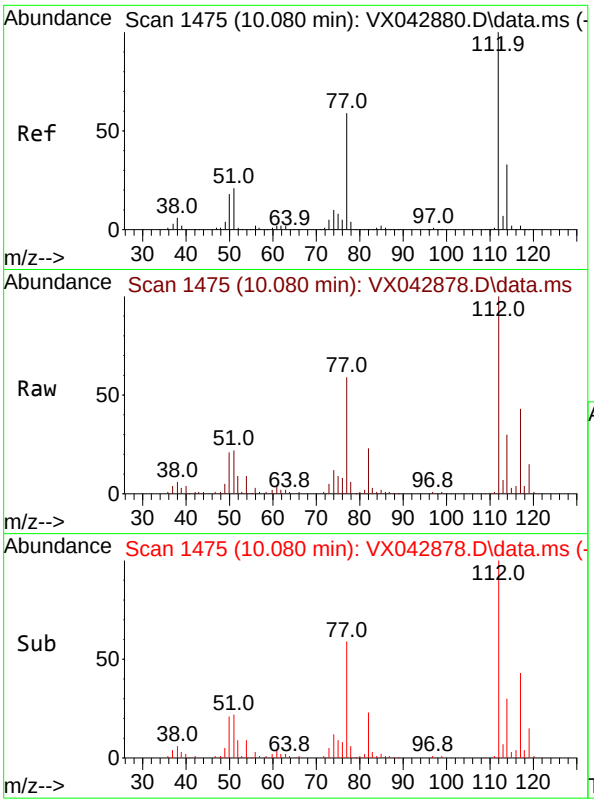


#64
Tetrachloroethene
Concen: 4.821 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion:164 Resp: 12177

Ion	Ratio	Lower	Upper
164	100		
166	131.0	102.7	154.1
129	105.0	80.4	120.6
131	93.6	76.5	114.7

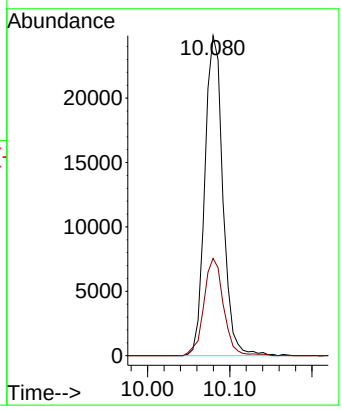




#65
Chlorobenzene
Concen: 4.908 ug/l
RT: 10.080 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion:112 Resp: 3783

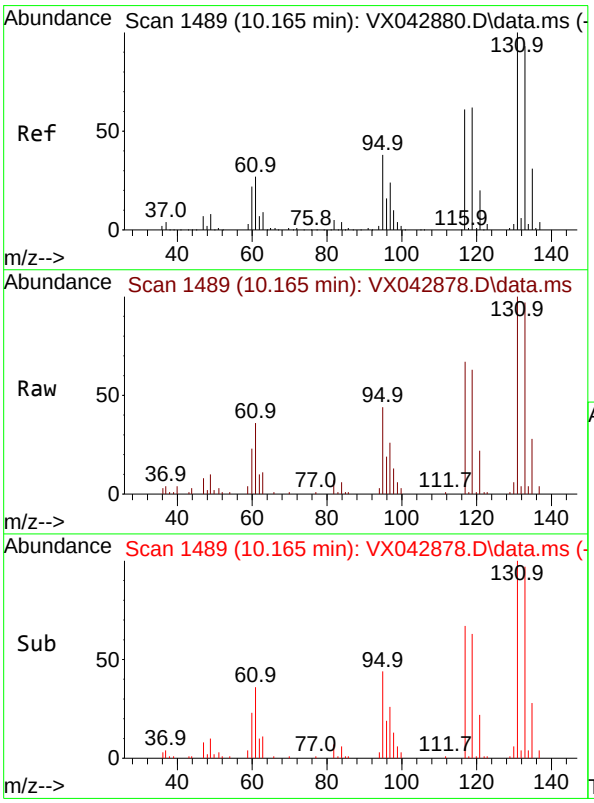
Ion	Ratio	Lower	Upper
112	100		
114	30.4	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

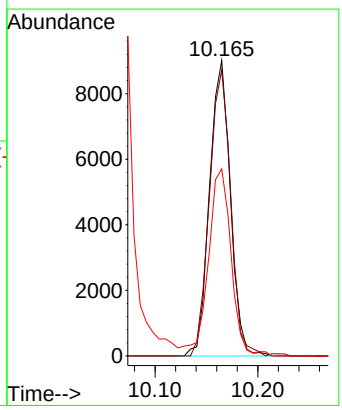
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

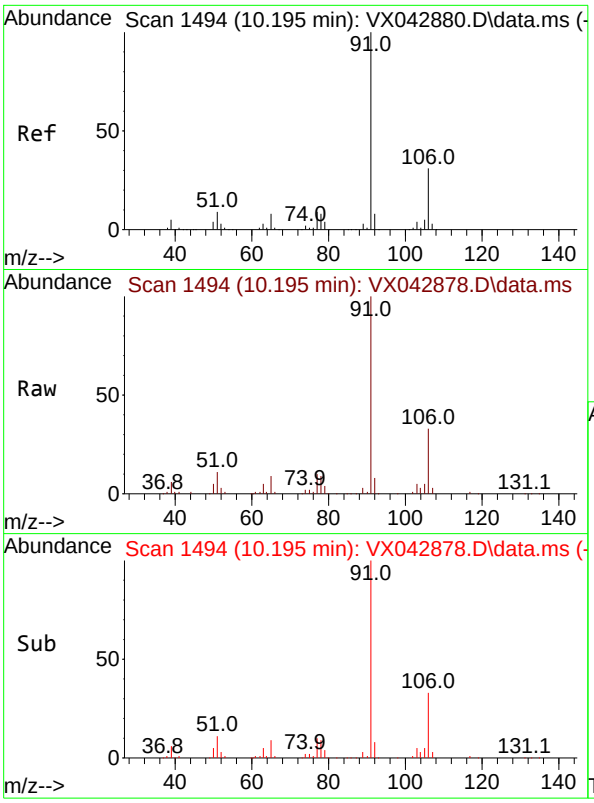


#66
1,1,1,2-Tetrachloroethane
Concen: 4.763 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion:131 Resp: 12659

Ion	Ratio	Lower	Upper
131	100		
133	99.4	47.1	141.4
119	68.6	32.2	96.6





#67
Ethyl Benzene
Concen: 4.673 ug/l
RT: 10.195 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

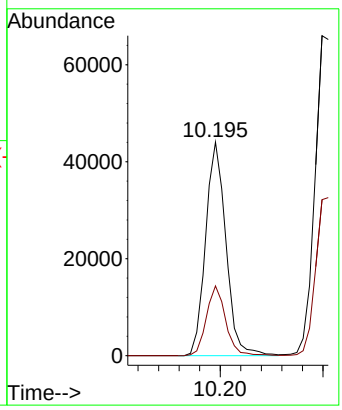
Tgt Ion: 91 Resp: 6058

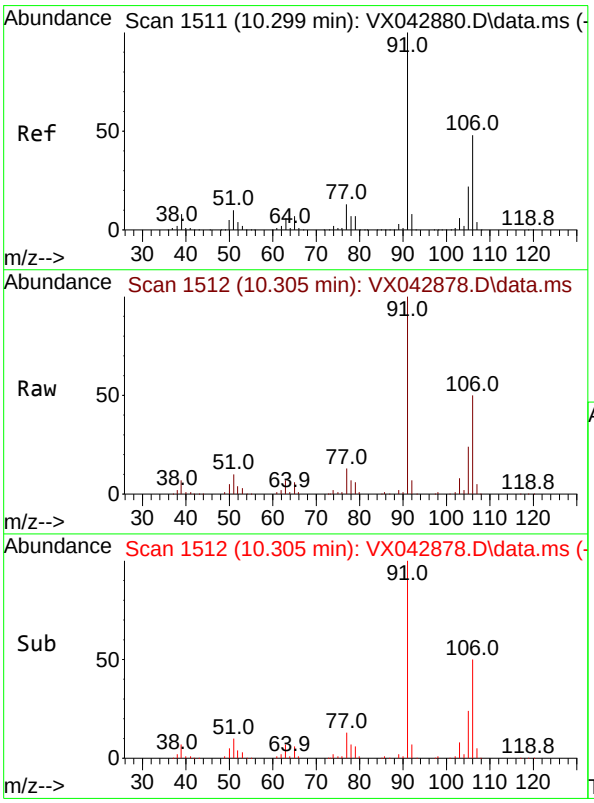
Ion	Ratio	Lower	Upper
91	100		
106	32.7	24.9	37.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

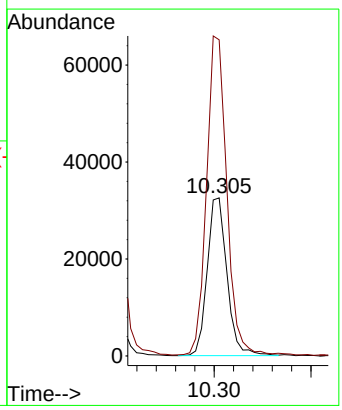


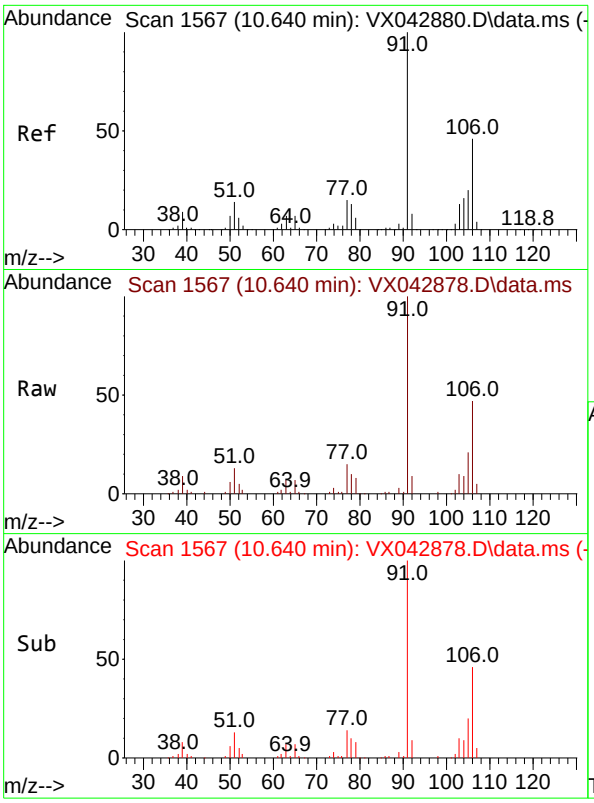


#68
m/p-Xylenes
Concen: 9.352 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion:106 Resp: 46292

Ion	Ratio	Lower	Upper
106	100		
91	207.7	165.5	248.3





#69
o-Xylene
Concen: 4.684 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

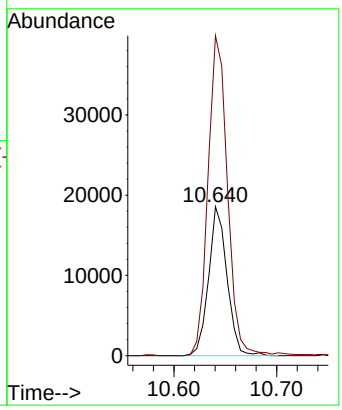
Tgt Ion:106 Resp: 2322

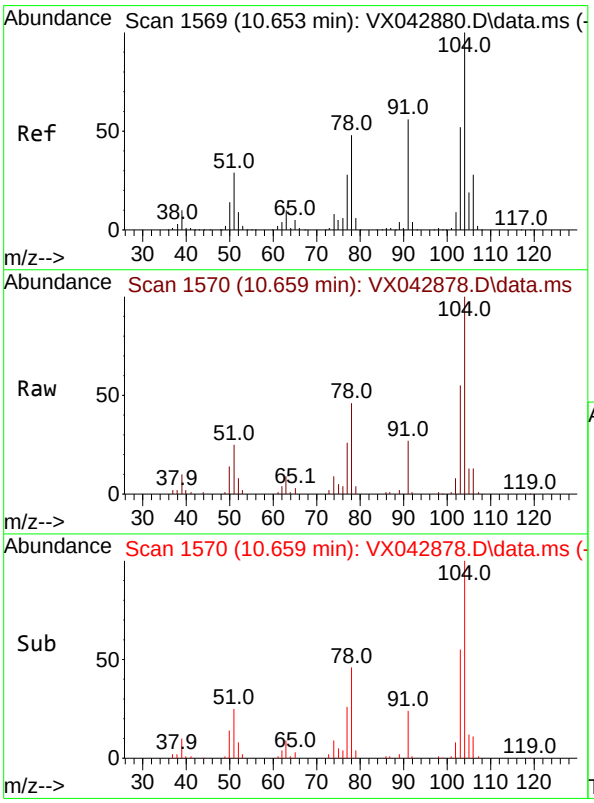
Ion	Ratio	Lower	Upper
106	100		
91	228.1	108.9	326.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

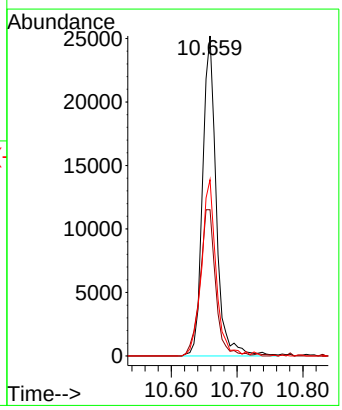


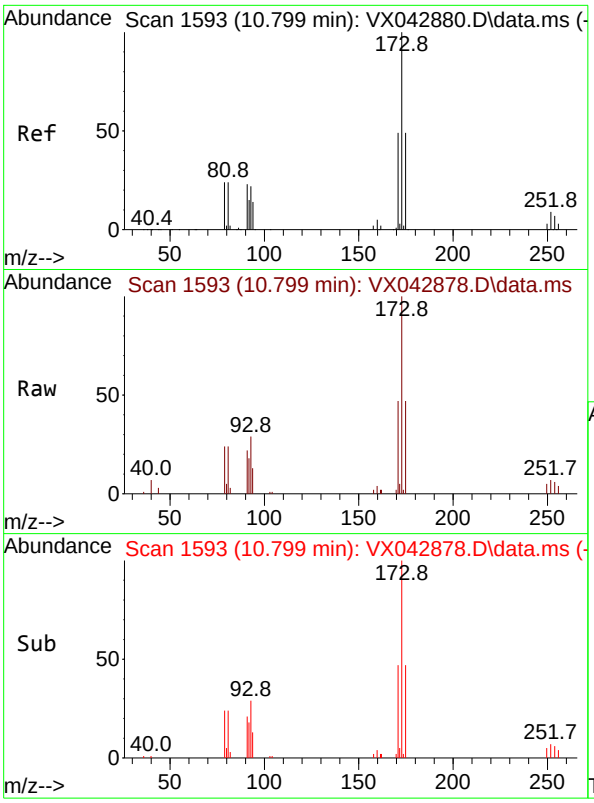


#70
Styrene
Concen: 4.579 ug/l
RT: 10.659 min Scan# 1570
Delta R.T. 0.006 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion:104 Resp: 36515

Ion	Ratio	Lower	Upper
104	100		
78	51.8	43.6	65.4
103	59.0	43.6	65.4





#71
Bromoform
Concen: 4.946 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

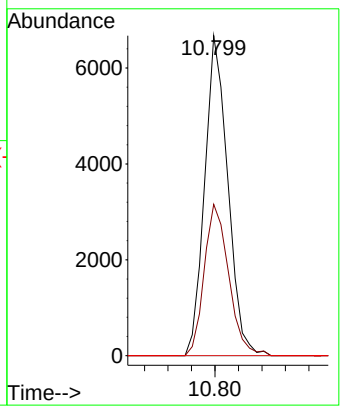
Tgt Ion:173 Resp: 912

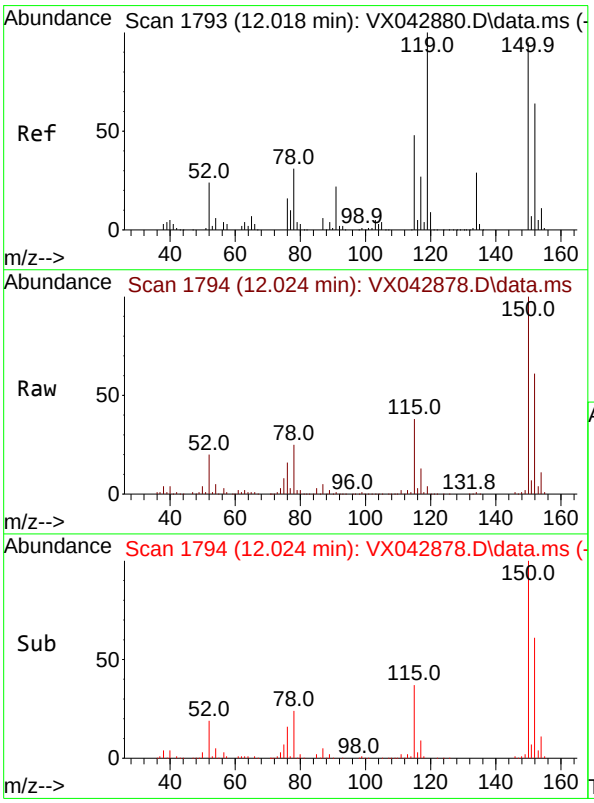
Ion	Ratio	Lower	Upper
173	100		
175	50.1	24.1	72.4
254	0.0	0.0	0.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

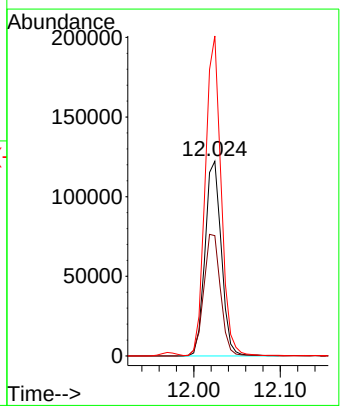


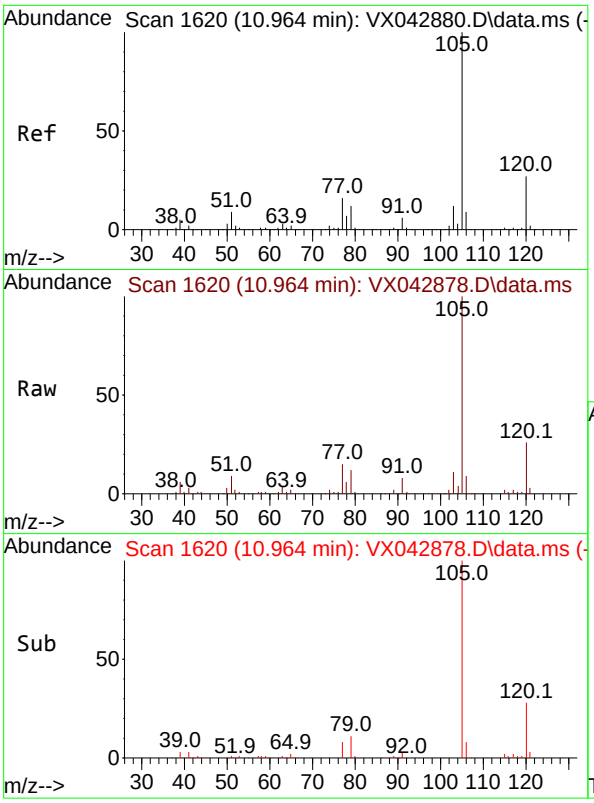


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion:152 Resp: 159705

Ion	Ratio	Lower	Upper
152	100		
115	64.6	43.3	129.9
150	159.0	0.0	345.0

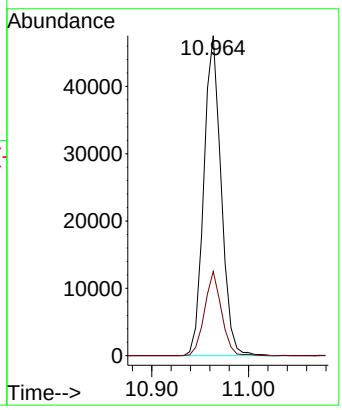




#73
Isopropylbenzene
Concen: 5.130 ug/l
RT: 10.964 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion:105 Resp: 5923

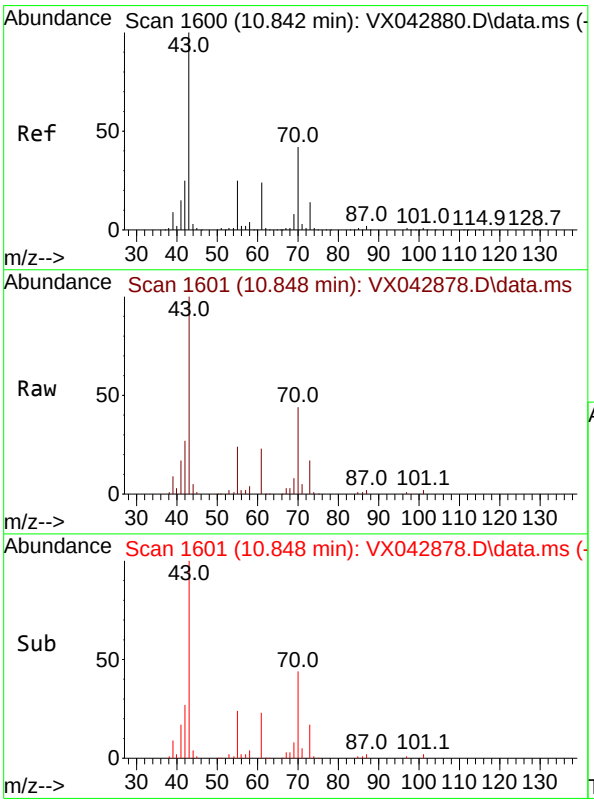
Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.9	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

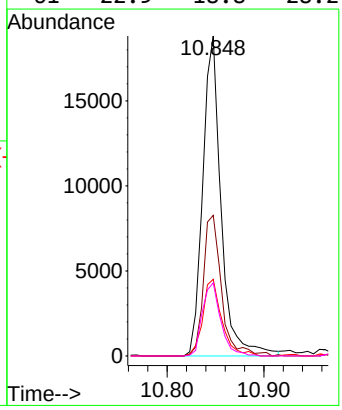
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

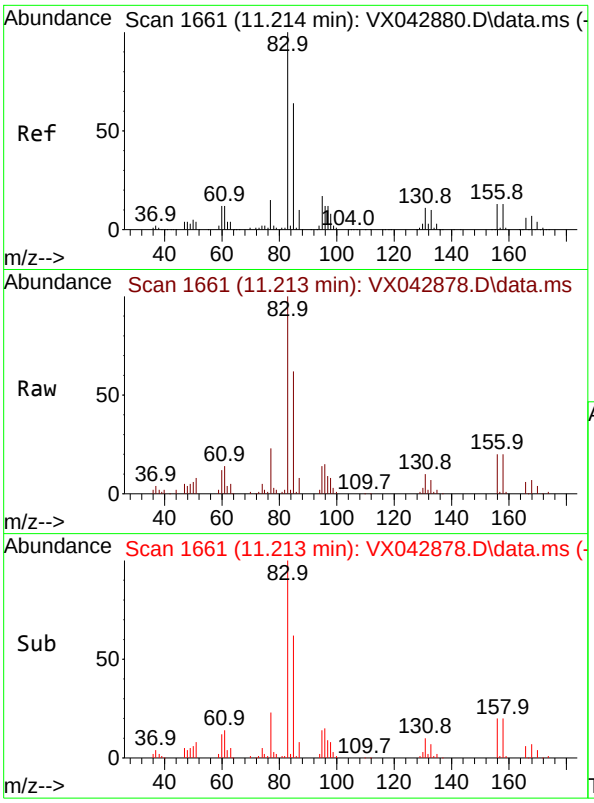


#74
N-amyl acetate
Concen: 4.791 ug/l
RT: 10.848 min Scan# 1601
Delta R.T. 0.006 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 43 Resp: 24889

Ion	Ratio	Lower	Upper
43	100		
70	43.6	32.9	49.3
55	24.8	19.3	28.9
61	22.9	18.8	28.2





#75
1,1,2,2-Tetrachloroethane
Concen: 5.294 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

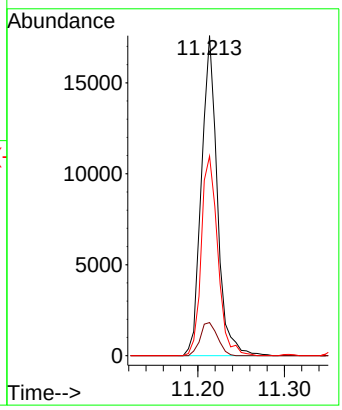
Tgt Ion: 83 Resp: 2239

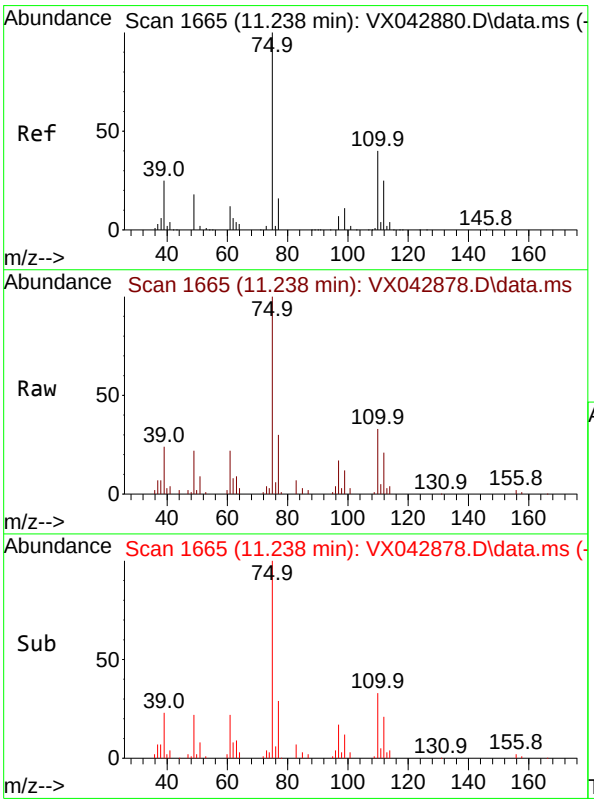
Ion	Ratio	Lower	Upper
83	100		
131	11.3	5.3	15.8
85	64.8	32.0	96.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

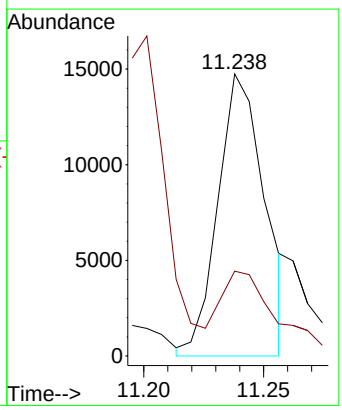


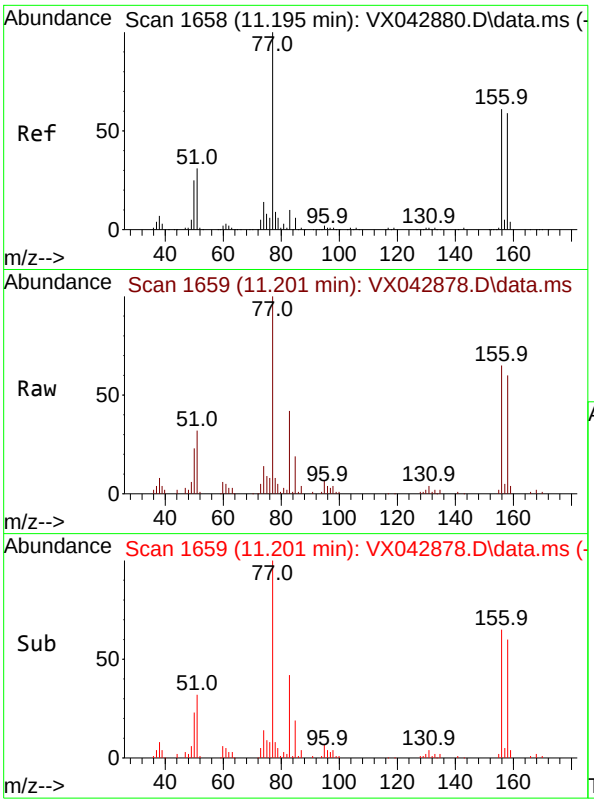


#76
1,2,3-Trichloropropane
Concen: 5.681 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 75 Resp: 19903

Ion	Ratio	Lower	Upper
75	100		
77	37.3	19.1	57.5





#77
Bromobenzene
Concen: 5.265 ug/l
RT: 11.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

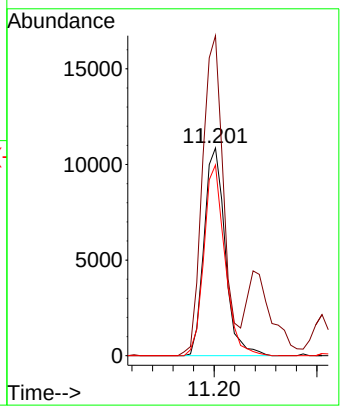
Tgt Ion:156 Resp: 1546

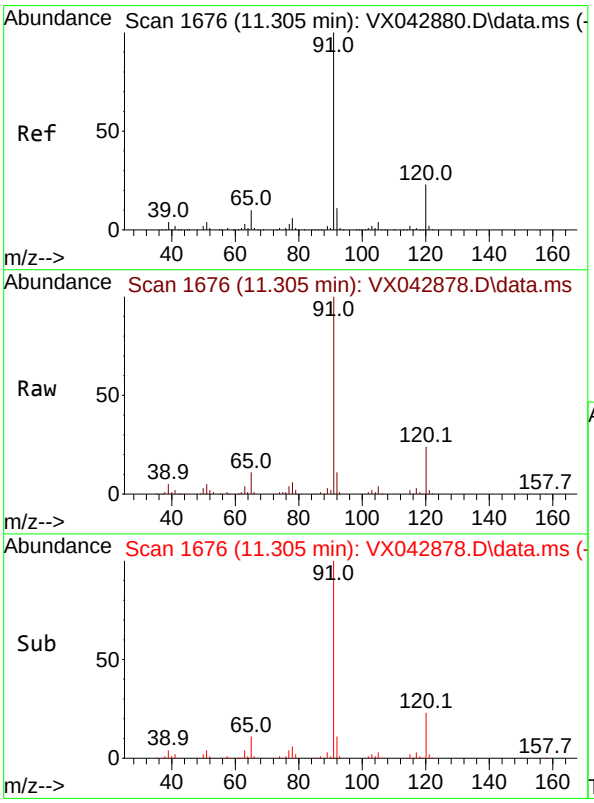
Ion	Ratio	Lower	Upper
156	100		
77	154.1	88.4	265.3
158	91.6	48.0	144.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

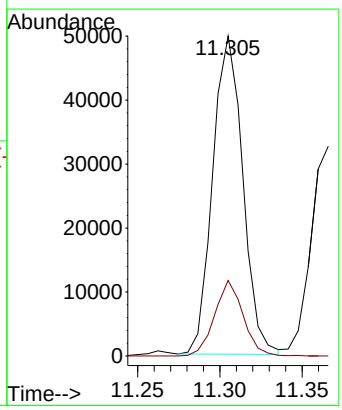


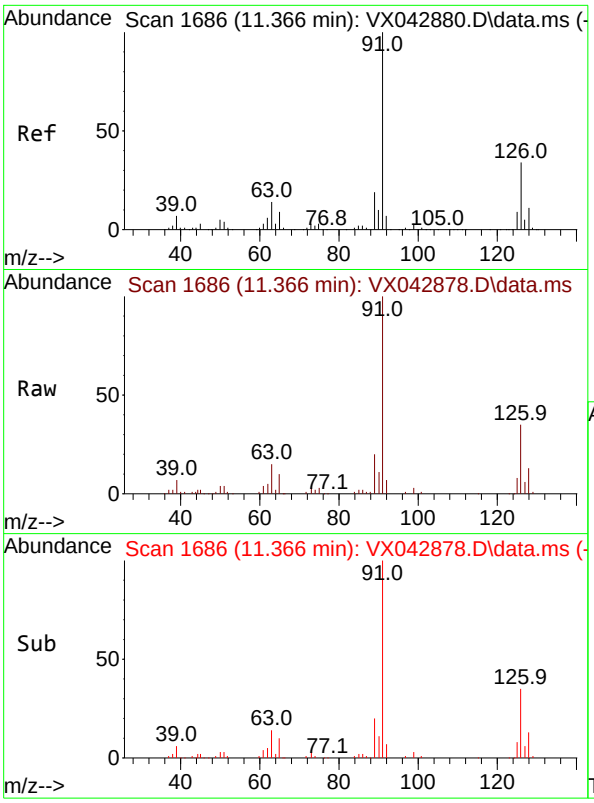


#78
n-propylbenzene
Concen: 4.937 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 91 Resp: 63321

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.5	34.4





#79
2-Chlorotoluene
Concen: 5.182 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

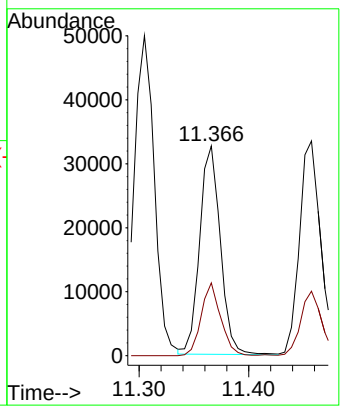
Tgt Ion: 91 Resp: 4260

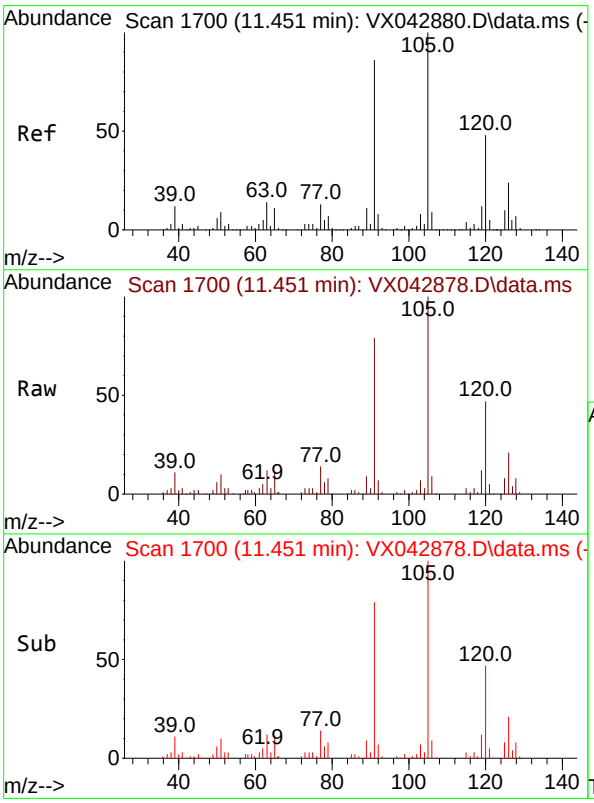
Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.3	48.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

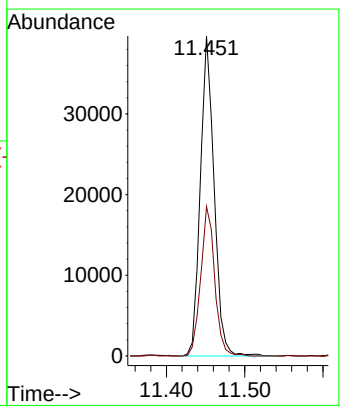


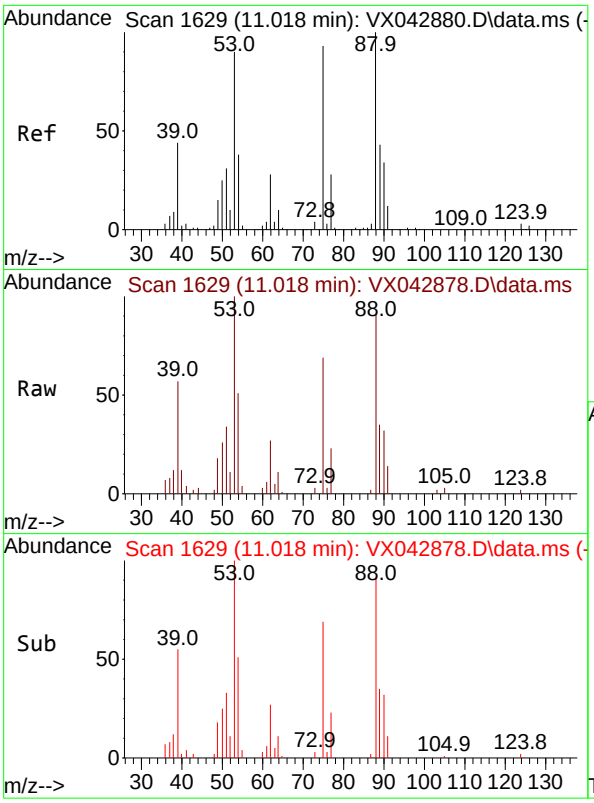


#80
1,3,5-Trimethylbenzene
Concen: 5.055 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion:105 Resp: 48330

Ion	Ratio	Lower	Upper
105	100		
120	47.5	24.1	72.3

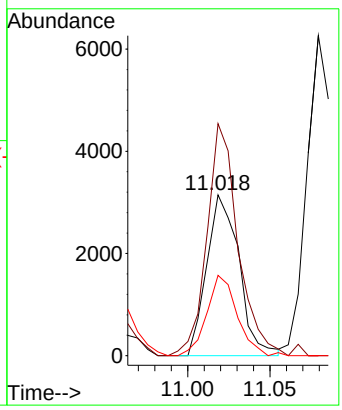




#81
trans-1,4-Dichloro-2-butene
Concen: 3.884 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 75 Resp: 429

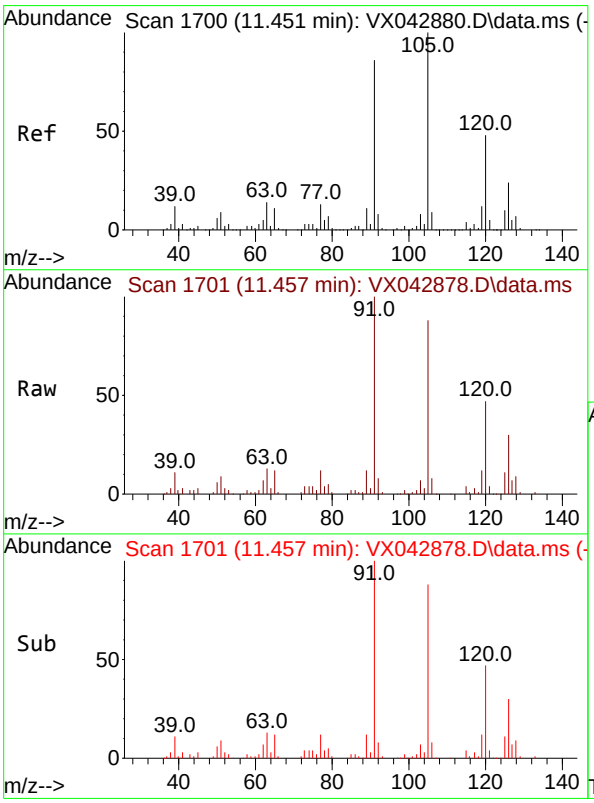
Ion	Ratio	Lower	Upper
75	100		
53	139.0	90.5	135.7#
89	47.1	36.9	55.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

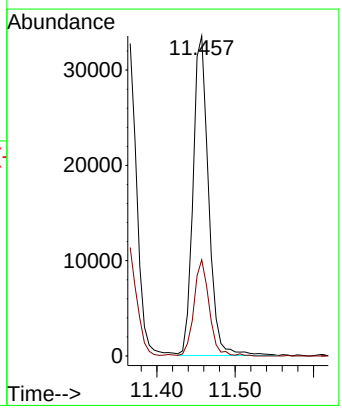
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

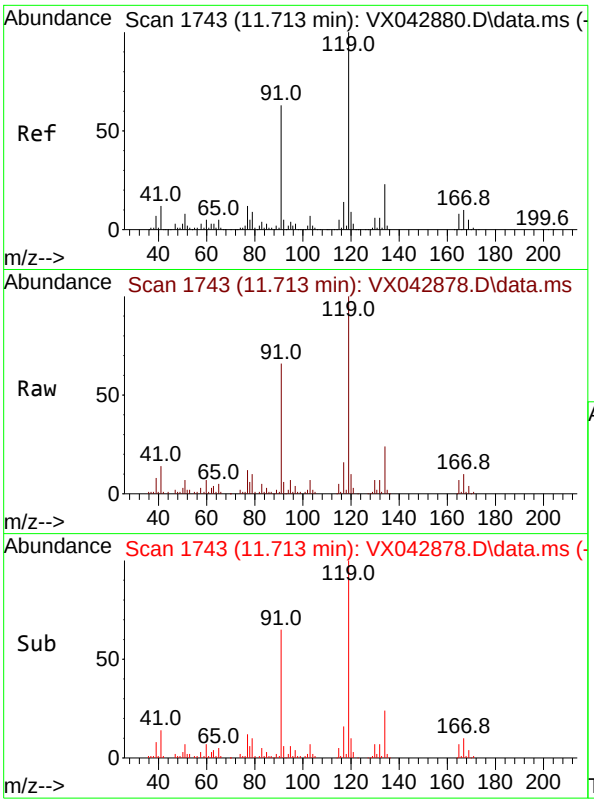


#82
4-Chlorotoluene
Concen: 4.999 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 91 Resp: 46194

Ion	Ratio	Lower	Upper
91	100		
126	28.8	14.2	42.6

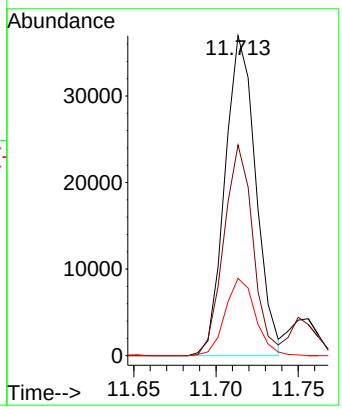




#83
tert-Butylbenzene
Concen: 4.916 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion:119 Resp: 4830

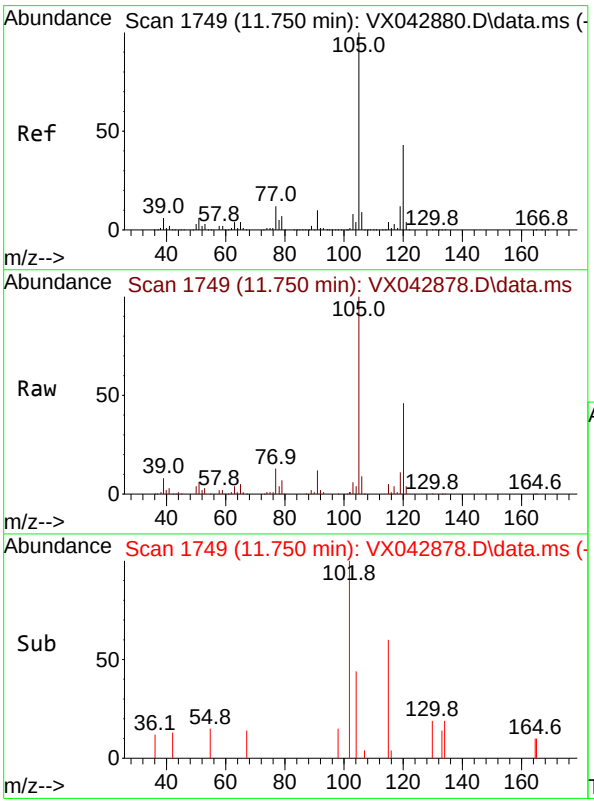
Ion	Ratio	Lower	Upper
119	100		
91	62.5	31.2	93.6
134	23.7	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

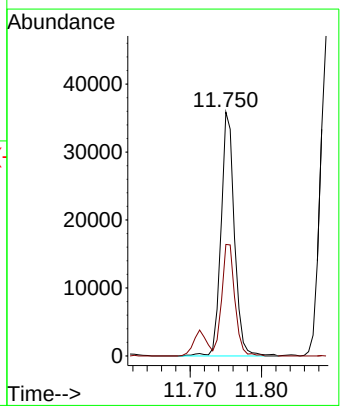
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

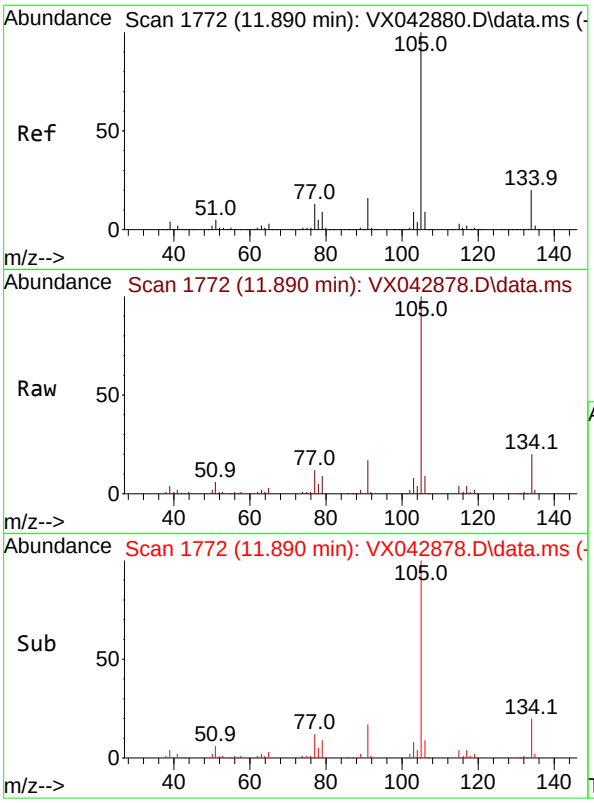


#84
1,2,4-Trimethylbenzene
Concen: 4.847 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion:105 Resp: 46653

Ion	Ratio	Lower	Upper
105	100		
120	44.8	21.2	63.6





#85
sec-Butylbenzene
Concen: 4.987 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

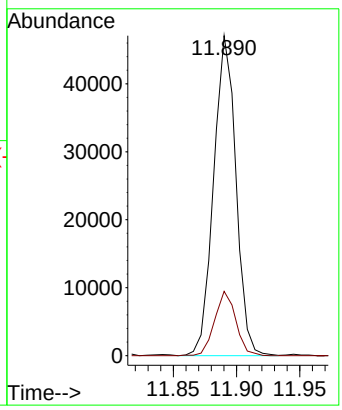
Tgt Ion:105 Resp: 5769

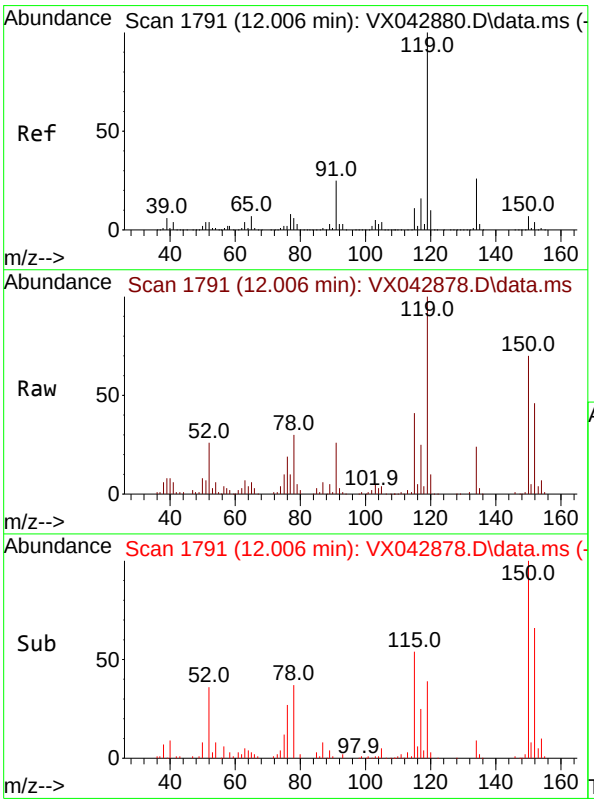
Ion	Ratio	Lower	Upper
105	100		
134	19.1	9.8	29.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

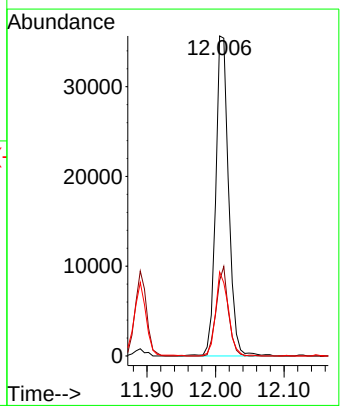


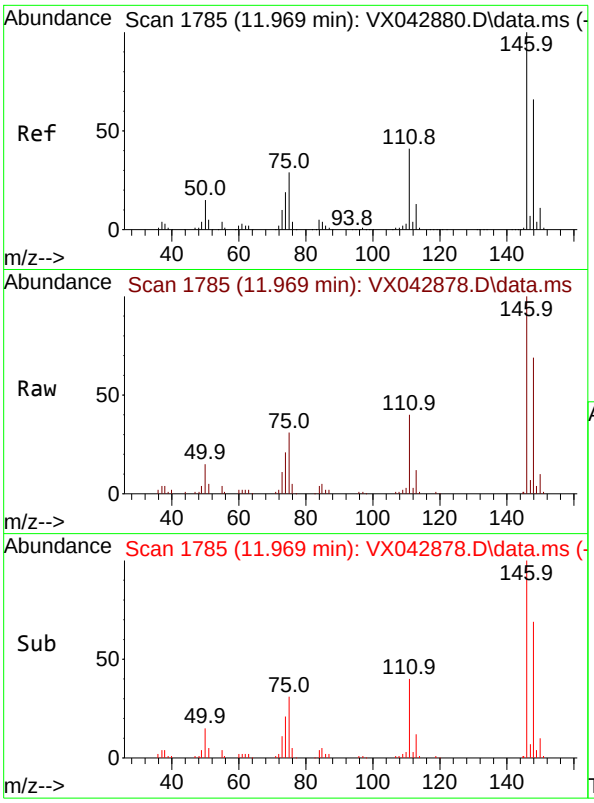


#86
p-Isopropyltoluene
Concen: 4.822 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion:119 Resp: 46352

Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.8	38.3
91	25.9	13.1	39.3

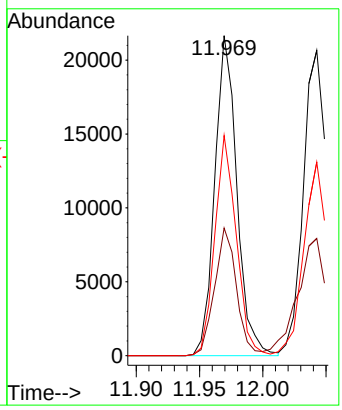




#87
1,3-Dichlorobenzene
Concen: 4.946 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion:146 Resp: 2629

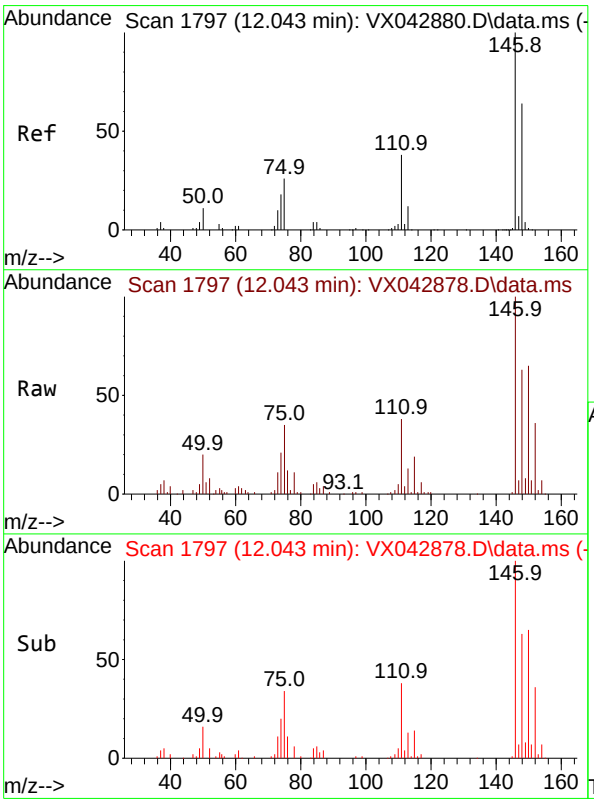
Ion	Ratio	Lower	Upper
146	100		
111	39.7	22.1	66.1
148	66.8	31.8	95.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

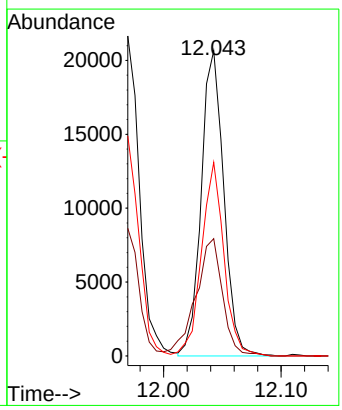
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

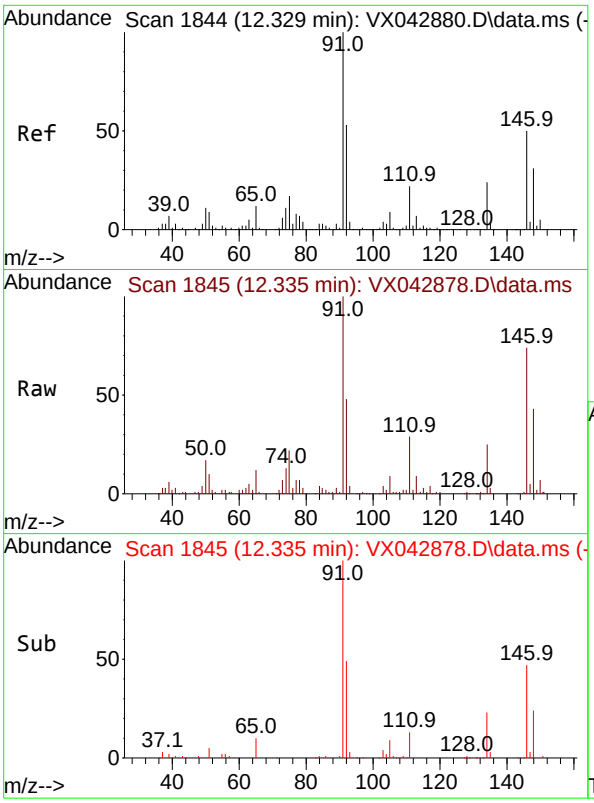


#88
1,4-Dichlorobenzene
Concen: 5.065 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion:146 Resp: 27597

Ion	Ratio	Lower	Upper
146	100		
111	45.9	21.3	63.7
148	63.1	31.8	95.4

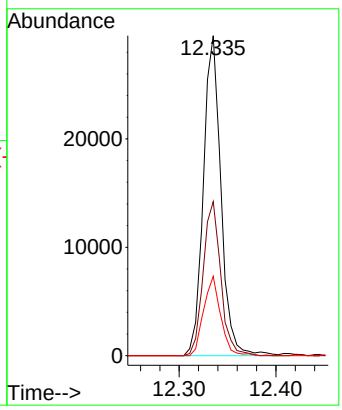




#89
n-Butylbenzene
Concen: 4.522 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 91 Resp: 3750

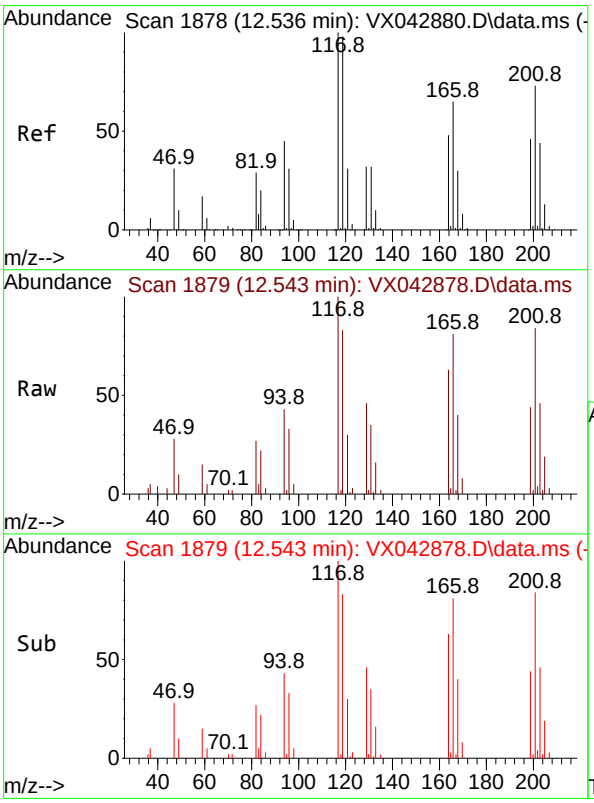
Ion	Ratio	Lower	Upper
91	100		
92	48.1	27.4	82.0
134	24.0	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

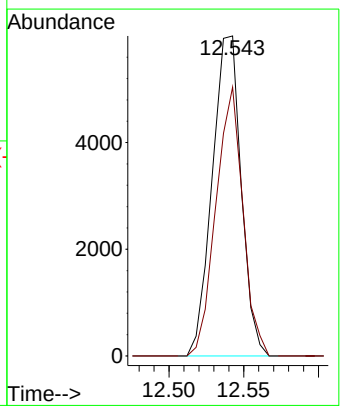
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

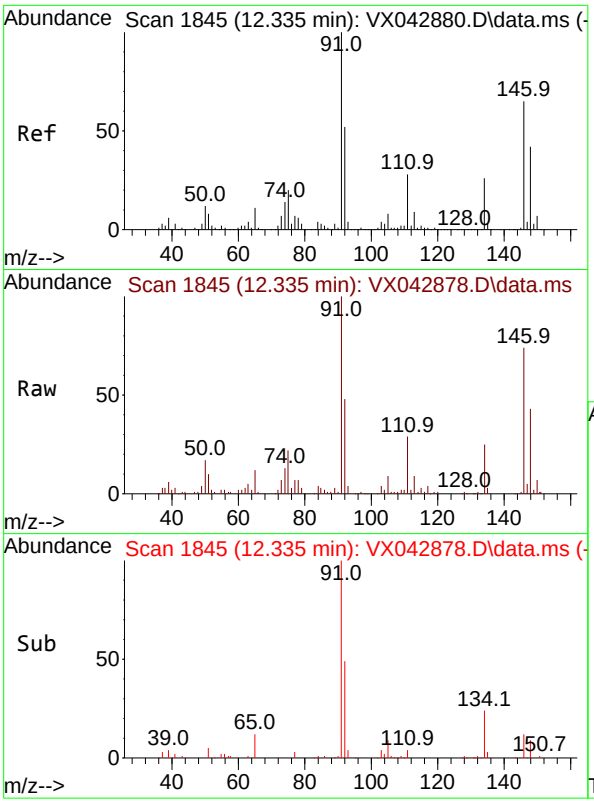


#90
Hexachloroethane
Concen: 4.591 ug/l
RT: 12.543 min Scan# 1879
Delta R.T. 0.006 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion:117 Resp: 8073

Ion	Ratio	Lower	Upper
117	100		
201	78.1	32.9	98.6

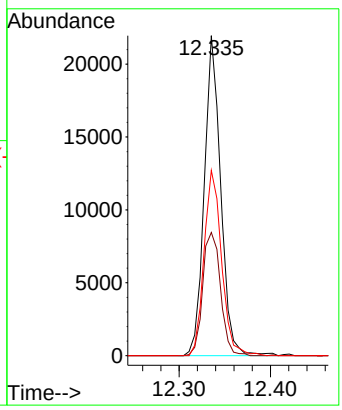




#91
1,2-Dichlorobenzene
Concen: 5.141 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion:146 Resp: 2736

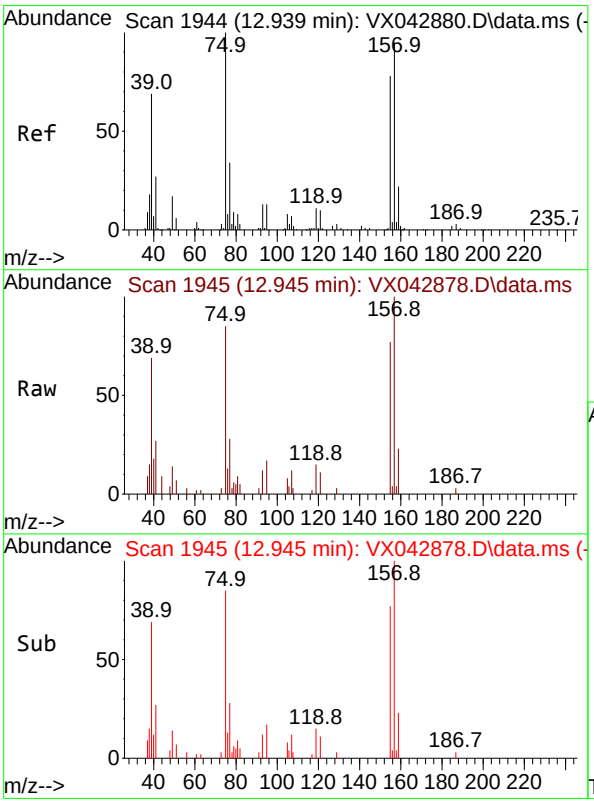
Ion	Ratio	Lower	Upper
146	100		
111	41.6	22.4	67.0
148	61.7	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

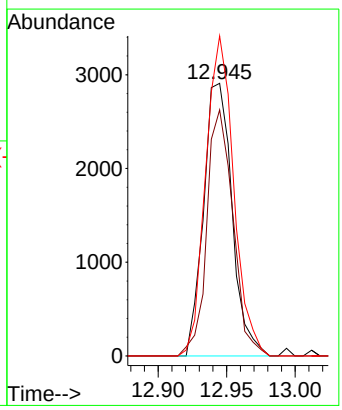
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

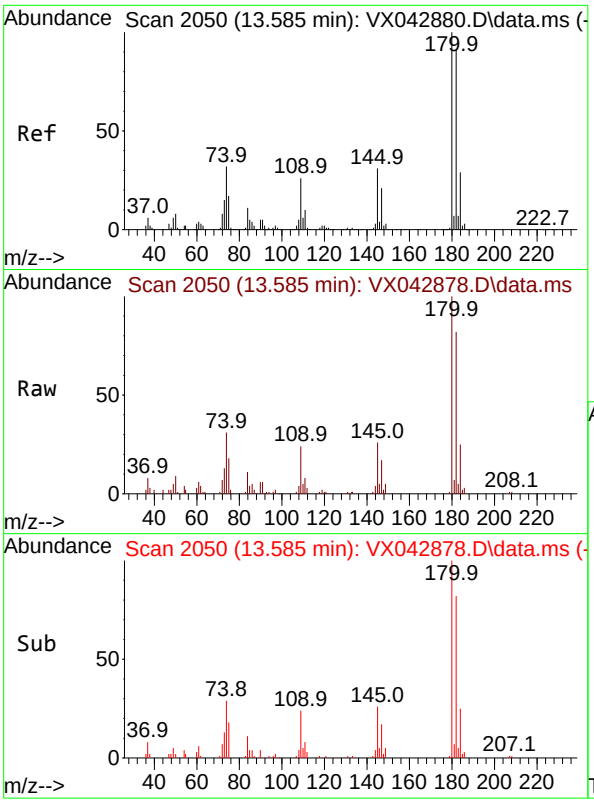


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.527 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion: 75 Resp: 4208

Ion	Ratio	Lower	Upper
75	100		
155	82.9	36.1	108.5
157	115.7	44.9	134.7

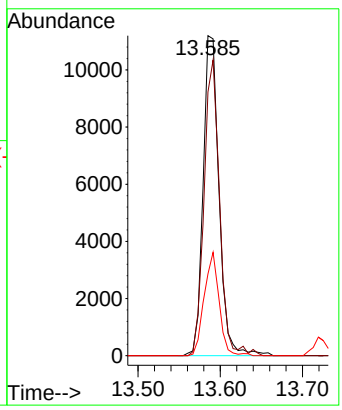




#93
1,2,4-Trichlorobenzene
Concen: 4.628 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion:180 Resp: 1502

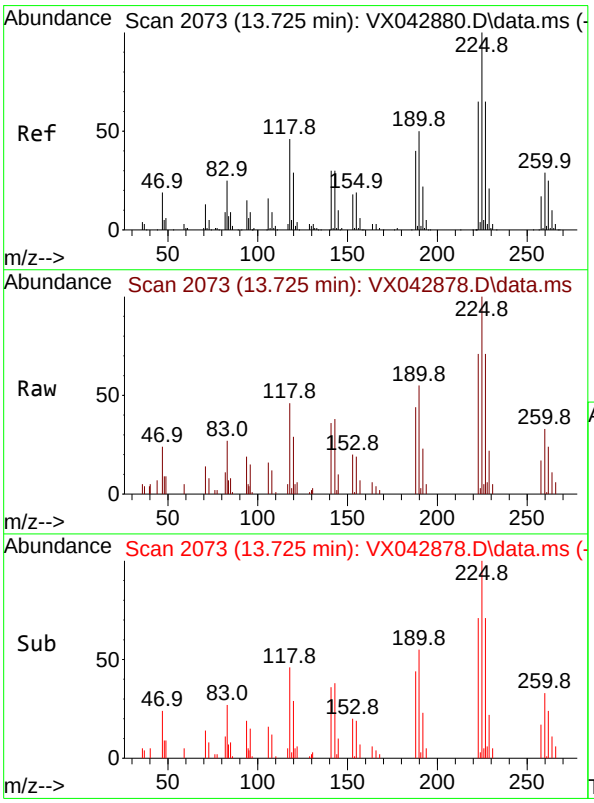
Ion	Ratio	Lower	Upper
180	100		
182	90.7	48.3	144.8
145	30.4	18.0	54.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

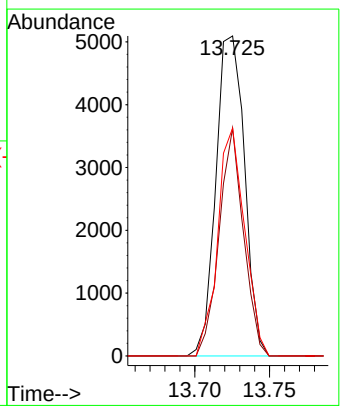
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

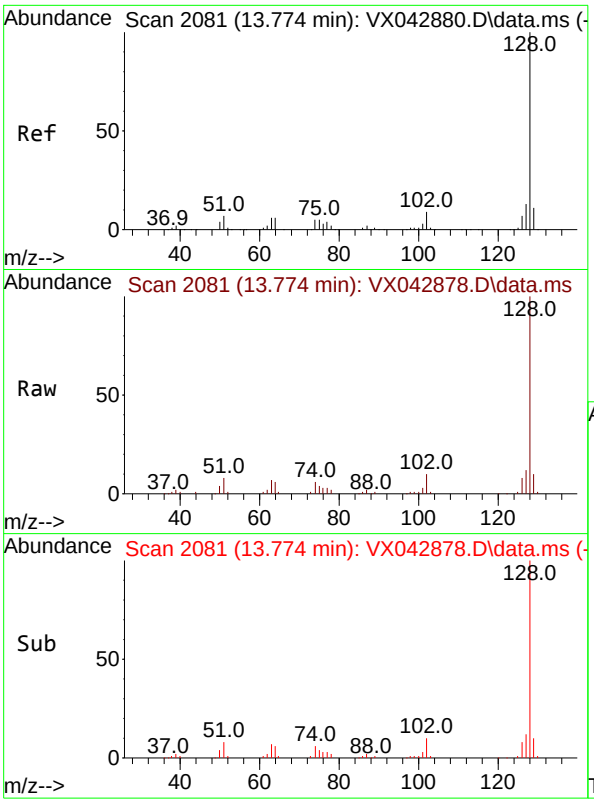


#94
Hexachlorobutadiene
Concen: 4.933 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion:225 Resp: 6793

Ion	Ratio	Lower	Upper
225	100		
223	60.4	31.1	93.2
227	67.0	32.5	97.5

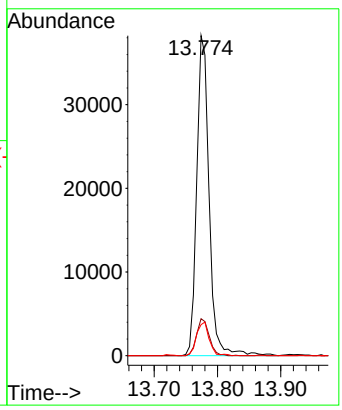




#95
Naphthalene
Concen: 4.644 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion:128 Resp: 5218

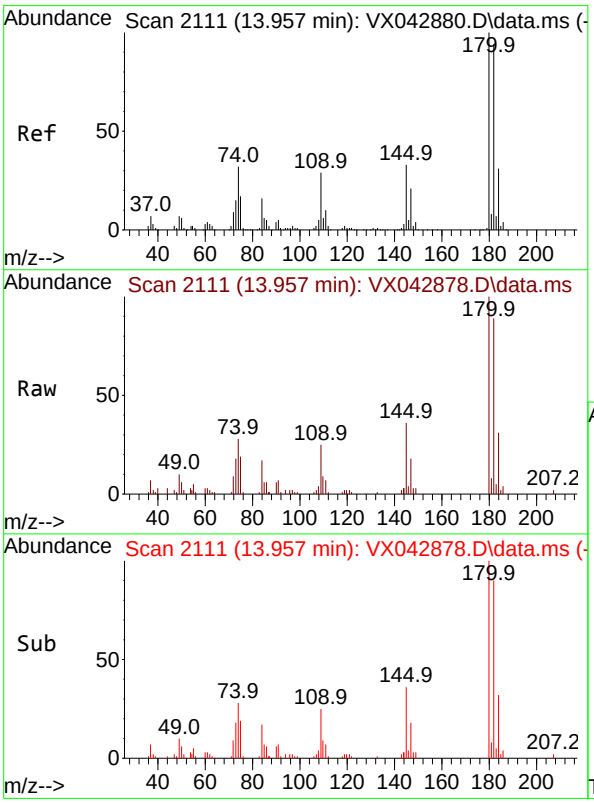
Ion	Ratio	Lower	Upper
128	100		
127	11.7	10.3	15.5
129	10.7	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

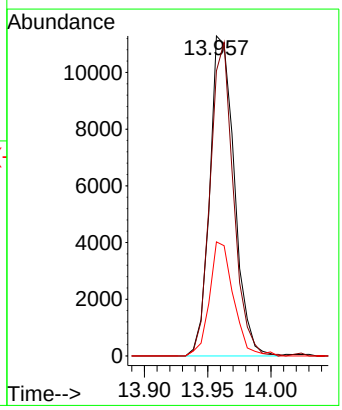
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024



#96
1,2,3-Trichlorobenzene
Concen: 4.661 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX042878.D
Acq: 06 Aug 2024 18:41

Tgt Ion:180 Resp: 15235

Ion	Ratio	Lower	Upper
180	100		
182	92.4	46.9	140.6
145	34.8	17.8	53.5



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042879.D
Acq On : 06 Aug 2024 19:05
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

Quant Time: Aug 07 02:37:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:27:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	224645	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	376641	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	333947	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	159287	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	60103	19.489	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	38.980%#		
35) Dibromofluoromethane	5.385	113	47403	19.249	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	38.500%#		
50) Toluene-d8	8.647	98	173436	19.838	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	39.680%#		
62) 4-Bromofluorobenzene	11.079	95	60462	19.246	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	38.500%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	49429	20.413	ug/l	97
3) Chloromethane	1.301	50	53966	20.455	ug/l	94
4) Vinyl Chloride	1.374	62	52267	20.880	ug/l	97
5) Bromomethane	1.593	94	29012	19.150	ug/l	96
6) Chloroethane	1.660	64	28813	20.204	ug/l	95
7) Trichlorofluoromethane	1.867	101	83934	21.561	ug/l	98
8) Diethyl Ether	2.136	74	29173	20.374	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.313	101	51925	21.215	ug/l	97
10) Methyl Iodide	2.441	142	52181	20.618	ug/l	95
11) Tert butyl alcohol	2.995	59	55279	90.117	ug/l #	87
12) 1,1-Dichloroethene	2.306	96	51628	20.851	ug/l	88
13) Acrolein	2.239	56	61286	101.360	ug/l	98
14) Allyl chloride	2.660	41	77636	20.751	ug/l	95
15) Acrylonitrile	3.075	53	166781	106.526	ug/l	98
16) Acetone	2.392	43	142025	106.177	ug/l	92
17) Carbon Disulfide	2.502	76	119044	19.757	ug/l	99
18) Methyl Acetate	2.709	43	86690	20.437	ug/l	99
19) Methyl tert-butyl Ether	3.123	73	172661	20.718	ug/l	100
20) Methylene Chloride	2.782	84	60824	21.319	ug/l	92
21) trans-1,2-Dichloroethene	3.087	96	51803	20.795	ug/l	94
22) Diisopropyl ether	3.770	45	177921	21.647	ug/l	95
23) Vinyl Acetate	3.727	43	1024488	109.825	ug/l	98
24) 1,1-Dichloroethane	3.605	63	99756	21.103	ug/l	99
25) 2-Butanone	4.568	43	229173	109.097	ug/l	94
26) 2,2-Dichloropropane	4.477	77	59106	20.339	ug/l	95
27) cis-1,2-Dichloroethene	4.489	96	63661	21.549	ug/l	90
28) Bromochloromethane	4.904	49	36983	20.390	ug/l	89
29) Tetrahydrofuran	5.019	42	153418	108.081	ug/l	96
30) Chloroform	5.099	83	104762	21.170	ug/l	100
31) Cyclohexane	5.464	56	80471	20.854	ug/l	95
32) 1,1,1-Trichloroethane	5.385	97	90970	20.882	ug/l	96
36) 1,1-Dichloropropene	5.696	75	67528	20.225	ug/l	98
37) Ethyl Acetate	4.733	43	89972	21.537	ug/l	99
38) Carbon Tetrachloride	5.672	117	75328	19.986	ug/l	99
39) Methylcyclohexane	7.379	83	83658	21.077	ug/l	97
40) Benzene	6.037	78	219425	21.175	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042879.D
Acq On : 06 Aug 2024 19:05
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Aug 07 02:37:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:27:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.928	41	47455	22.055	ug/l		94
42) 1,2-Dichloroethane	6.086	62	78939	20.943	ug/l		99
43) Isopropyl Acetate	6.348	43	128264	20.761	ug/l		96
44) Trichloroethene	7.123	130	54155	20.799	ug/l		96
45) 1,2-Dichloropropane	7.427	63	55836	21.241	ug/l		98
46) Dibromomethane	7.586	93	41295	21.390	ug/l		93
47) Bromodichloromethane	7.824	83	75957	21.179	ug/l		99
48) Methyl methacrylate	7.696	41	64050	21.621	ug/l		91
49) 1,4-Dioxane	7.677	88	28332	421.293	ug/l	#	84
51) 4-Methyl-2-Pentanone	8.574	43	460638	111.309	ug/l		99
52) Toluene	8.720	92	137830	21.928	ug/l		97
53) t-1,3-Dichloropropene	8.982	75	70088	21.141	ug/l		97
54) cis-1,3-Dichloropropene	8.366	75	76508	20.896	ug/l		91
55) 1,1,2-Trichloroethane	9.153	97	54887	21.480	ug/l		94
56) Ethyl methacrylate	9.116	69	87928	21.384	ug/l		93
57) 1,3-Dichloropropane	9.311	76	90634	21.652	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.244	63	213507	110.168	ug/l		99
59) 2-Hexanone	9.433	43	349734	109.063	ug/l		96
60) Dibromochloromethane	9.525	129	58873	20.973	ug/l		98
61) 1,2-Dibromoethane	9.610	107	58204	21.559	ug/l		99
64) Tetrachloroethene	9.275	164	49110	21.150	ug/l		94
65) Chlorobenzene	10.079	112	148506	20.956	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.165	131	51702	21.159	ug/l		98
67) Ethyl Benzene	10.195	91	256642	21.530	ug/l		100
68) m/p-Xylenes	10.299	106	201489	44.278	ug/l		97
69) o-Xylene	10.640	106	97078	21.296	ug/l		99
70) Styrene	10.659	104	157781	21.524	ug/l		97
71) Bromoform	10.799	173	39628	20.104	ug/l	#	98
73) Isopropylbenzene	10.963	105	250540	21.755	ug/l		98
74) N-amyl acetate	10.841	43	110054	21.239	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.213	83	89263	21.158	ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	72749m	20.821	ug/l		
77) Bromobenzene	11.195	156	62532	21.346	ug/l		91
78) n-propylbenzene	11.305	91	278948	21.806	ug/l		100
79) 2-Chlorotoluene	11.366	91	176477	21.524	ug/l		97
80) 1,3,5-Trimethylbenzene	11.451	105	210332	22.057	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	21686	19.683	ug/l		98
82) 4-Chlorotoluene	11.457	91	199667	21.666	ug/l		99
83) tert-Butylbenzene	11.713	119	206928	21.116	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	212095	22.094	ug/l		98
85) sec-Butylbenzene	11.890	105	255415	22.134	ug/l		100
86) p-Isopropyltoluene	12.012	119	209073	21.808	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	112383	21.197	ug/l		98
88) 1,4-Dichlorobenzene	12.042	146	112726	20.743	ug/l		99
89) n-Butylbenzene	12.335	91	172731	20.885	ug/l		96
90) Hexachloroethane	12.536	117	36114	20.593	ug/l		85
91) 1,2-Dichlorobenzene	12.335	146	113105	21.304	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	19694	21.245	ug/l		91
93) 1,2,4-Trichlorobenzene	13.585	180	65455	20.213	ug/l		96
94) Hexachlorobutadiene	13.725	225	28595	20.820	ug/l		99
95) Naphthalene	13.774	128	236006	21.061	ug/l		100
96) 1,2,3-Trichlorobenzene	13.963	180	66975	20.546	ug/l		97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042879.D
Acq On : 06 Aug 2024 19:05
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

Quant Time: Aug 07 02:37:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:27:24 2024
Response via : Initial Calibration

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

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

ICAL Form

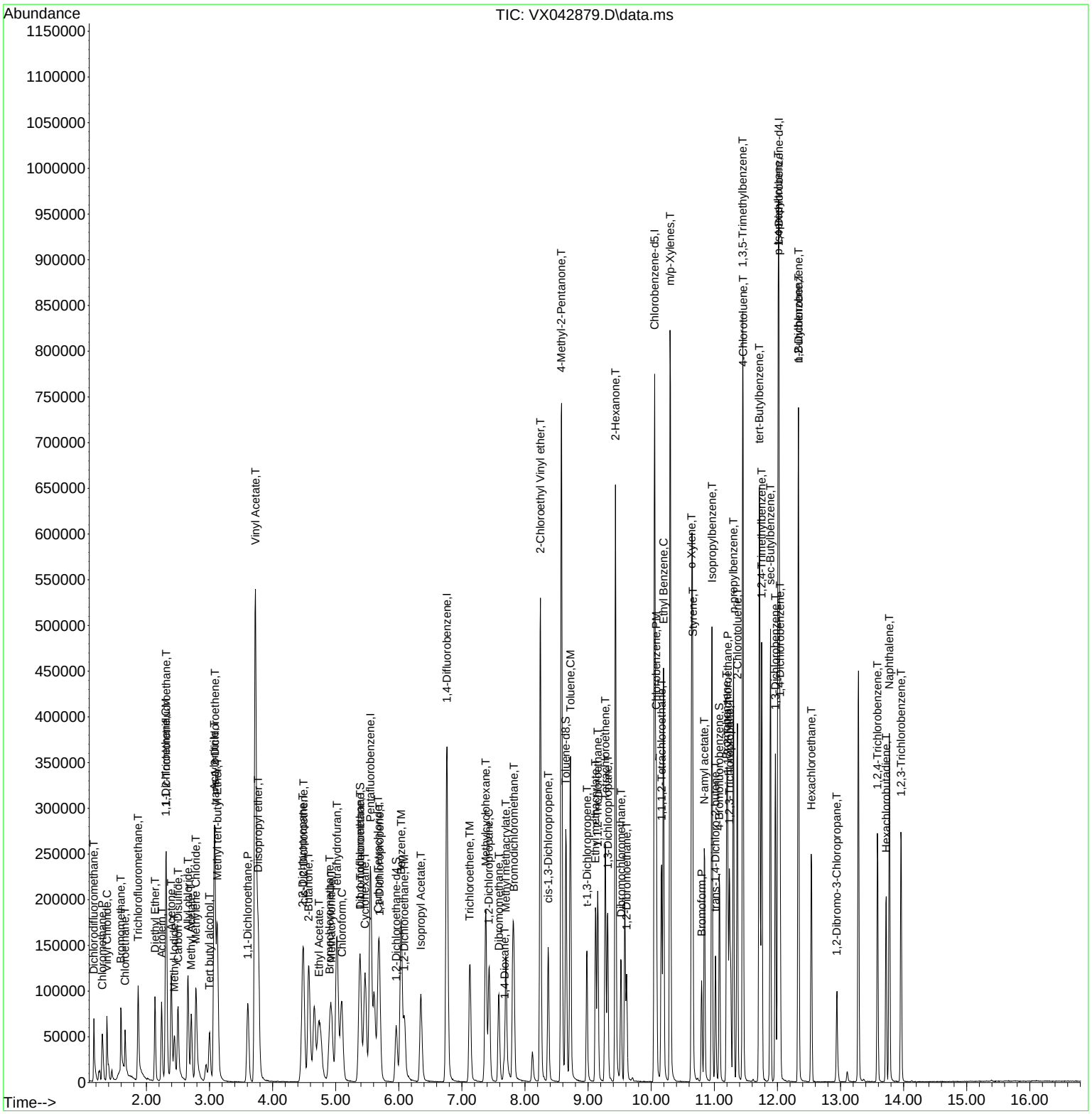
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042879.D
Acq On : 06 Aug 2024 19:05
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

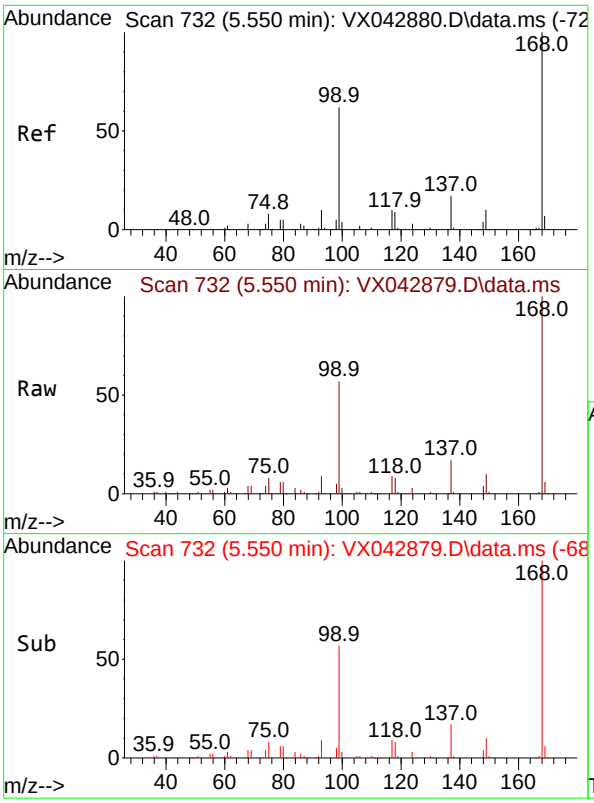
Quant Time: Aug 07 02:37:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:27:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

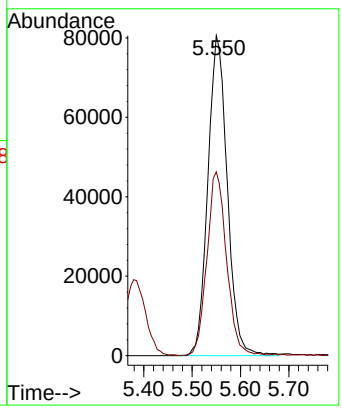




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion:168 Resp: 22464

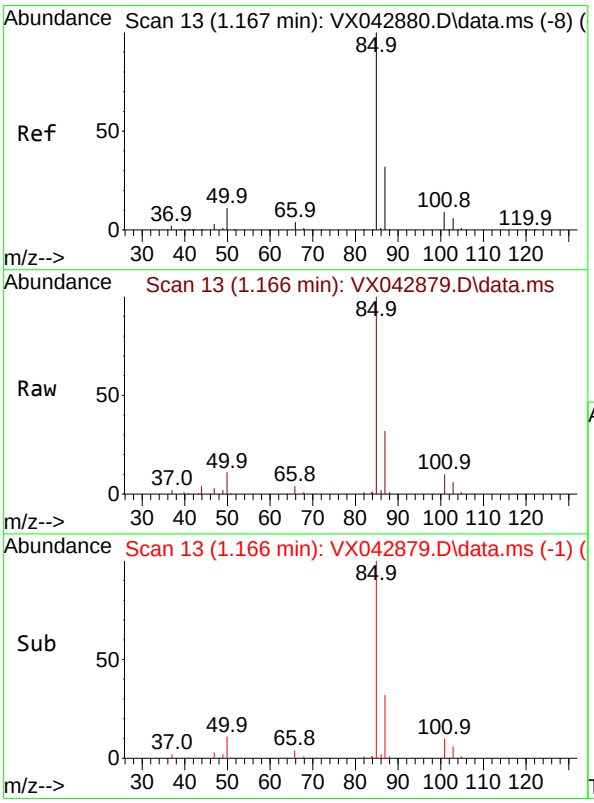
Ion	Ratio	Lower	Upper
168	100		
99	57.4	56.6	85.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

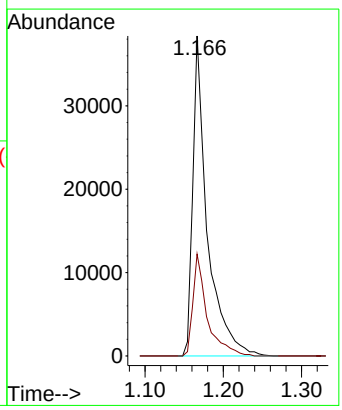
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

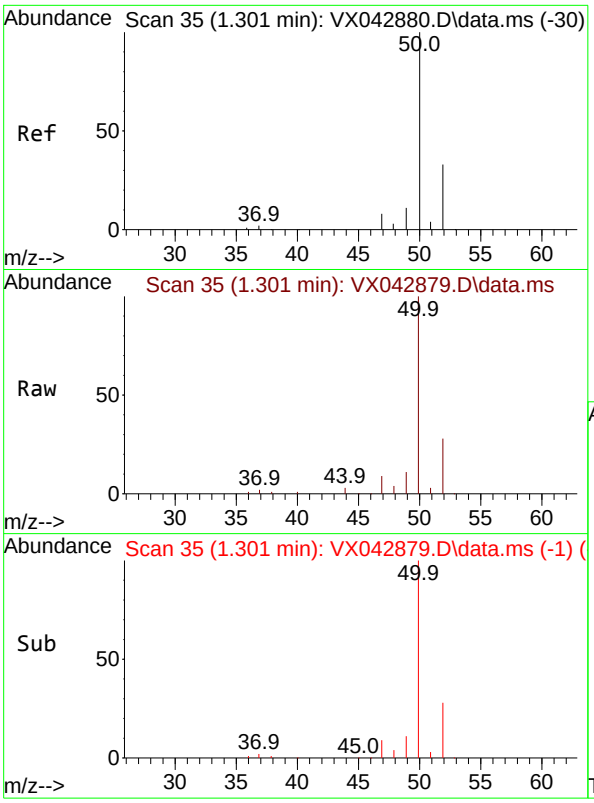


#2
Dichlorodifluoromethane
Concen: 20.413 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 85 Resp: 49429

Ion	Ratio	Lower	Upper
85	100		
87	31.8	16.7	50.1

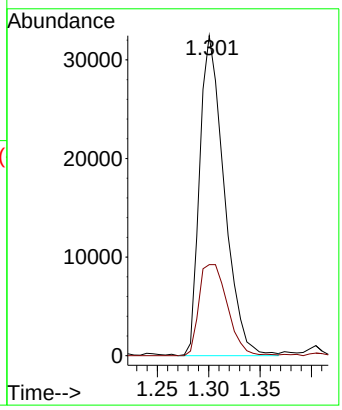




#3
Chloromethane
Concen: 20.455 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 50 Resp: 5396

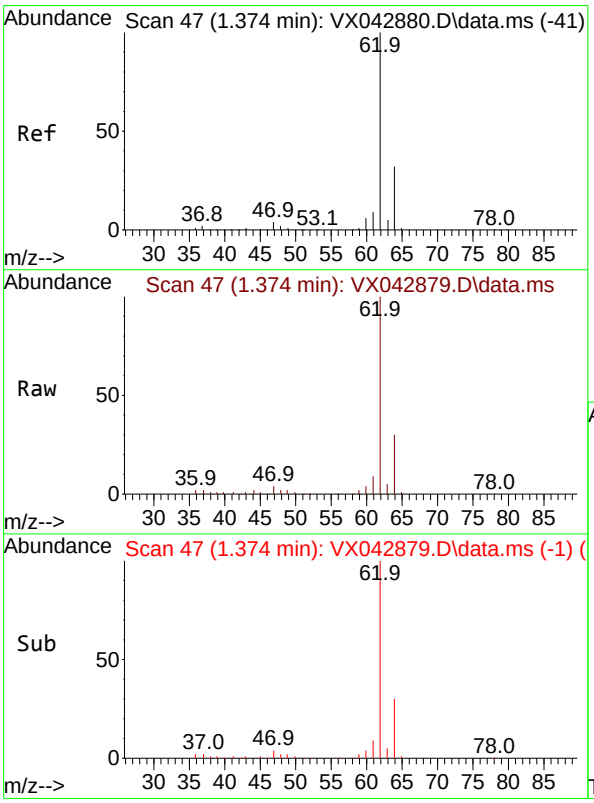
Ion	Ratio	Lower	Upper
50	100		
52	28.4	25.5	38.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

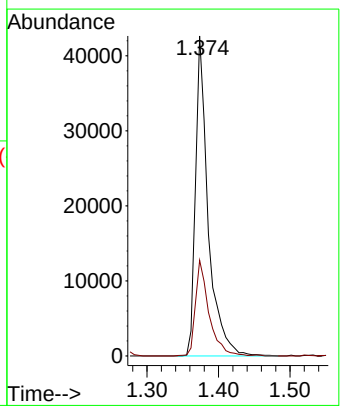
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

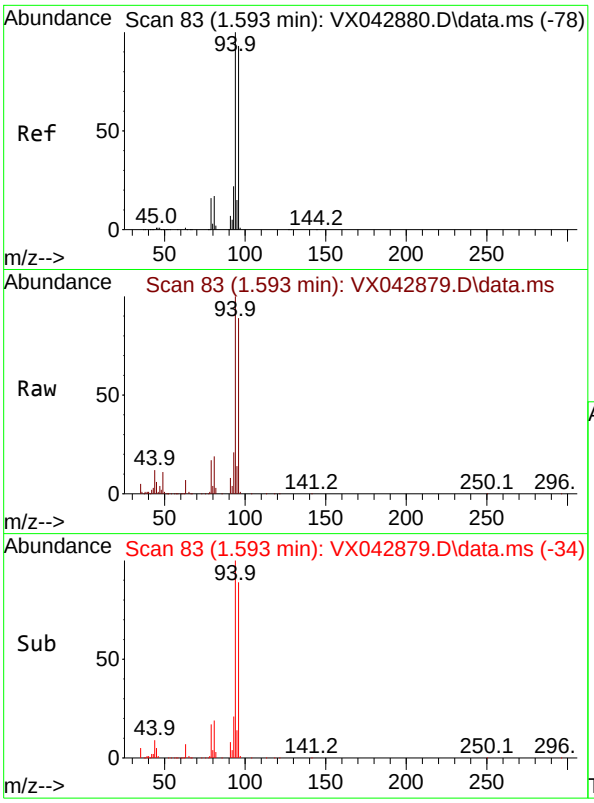


#4
Vinyl Chloride
Concen: 20.880 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 62 Resp: 52267

Ion	Ratio	Lower	Upper
62	100		
64	29.9	25.4	38.0

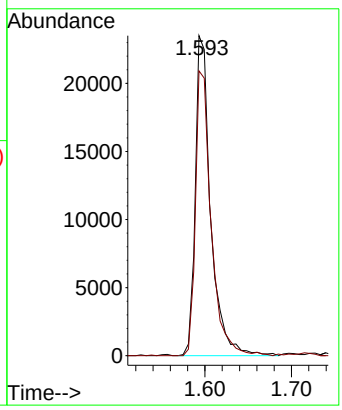




#5
Bromomethane
Concen: 19.150 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 94 Resp: 2901

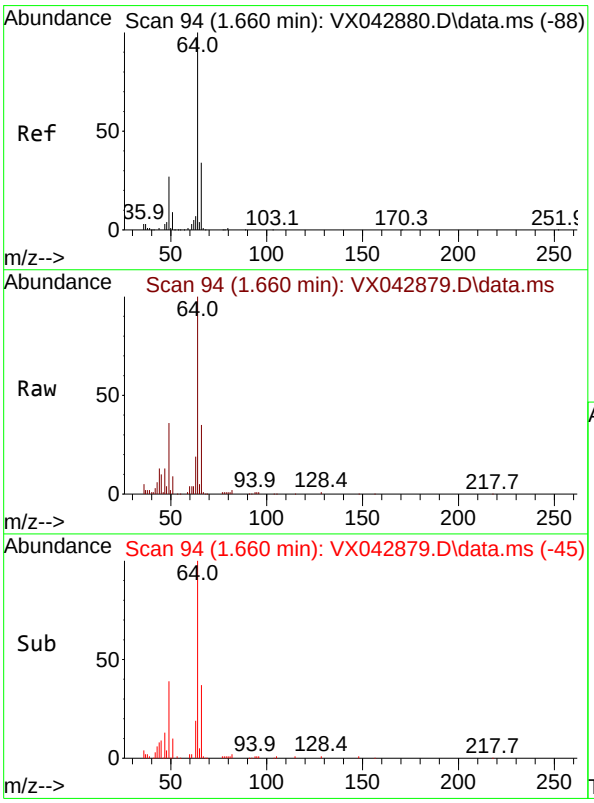
Ion	Ratio	Lower	Upper
94	100		
96	89.0	74.6	111.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

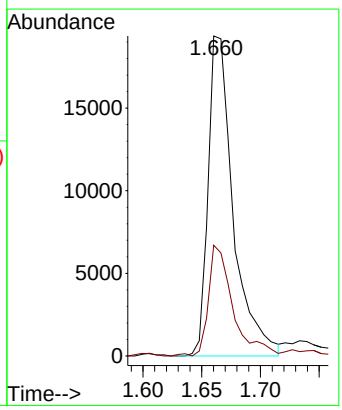
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

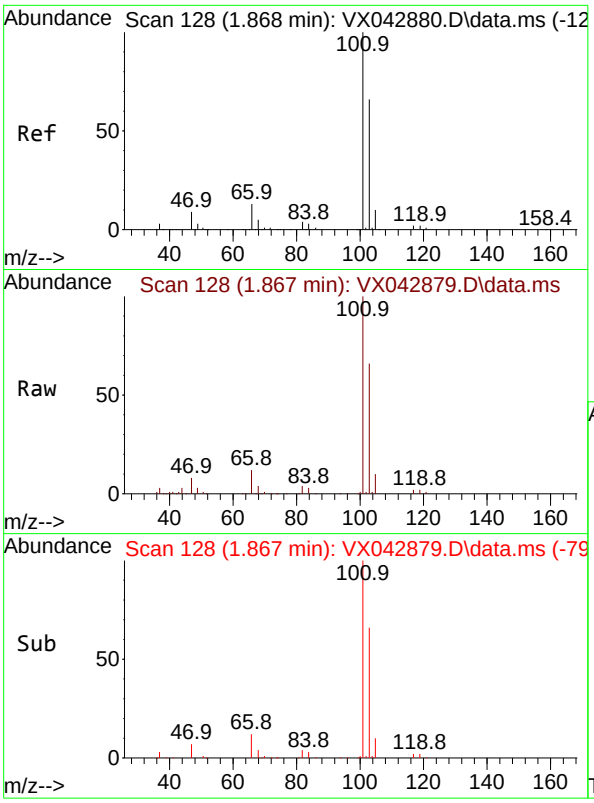


#6
Chloroethane
Concen: 20.204 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 64 Resp: 28813

Ion	Ratio	Lower	Upper
64	100		
66	34.1	25.1	37.7





#7
Trichlorofluoromethane
Concen: 21.561 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

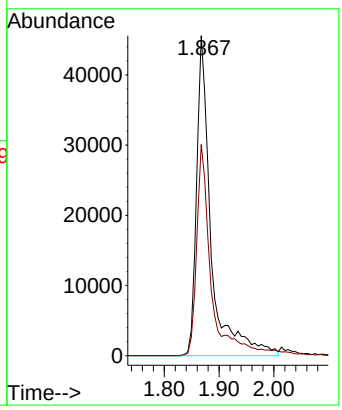
Tgt Ion:101 Resp: 8393

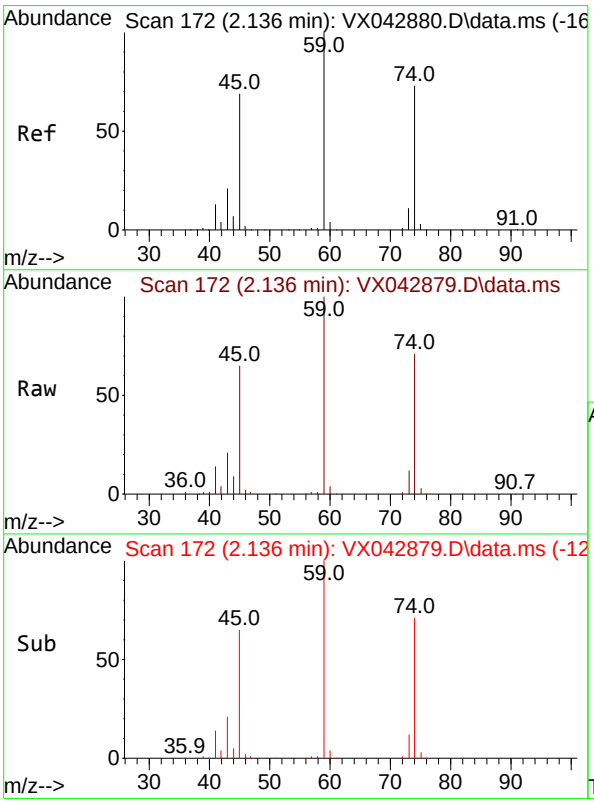
Ion	Ratio	Lower	Upper
101	100		
103	66.0	51.4	77.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

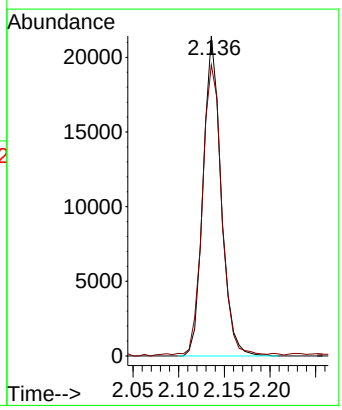


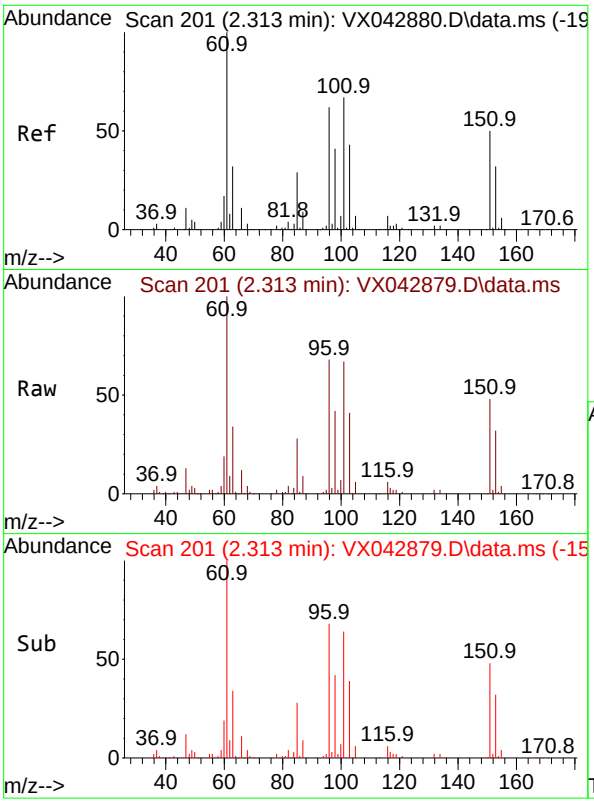


#8
Diethyl Ether
Concen: 20.374 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 74 Resp: 29173

Ion	Ratio	Lower	Upper
74	100		
45	99.5	53.3	159.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.215 ug/l
RT: 2.313 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

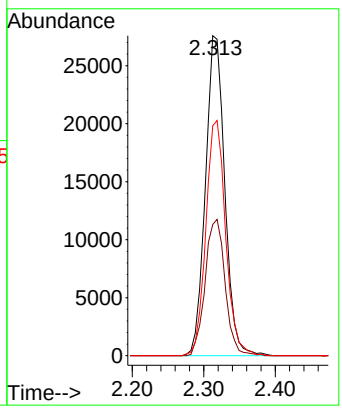
Tgt Ion:101 Resp: 5192

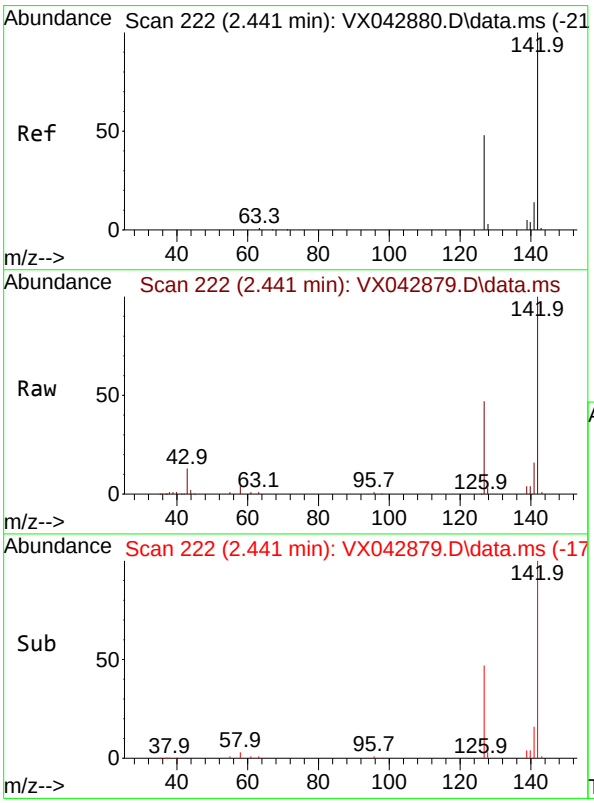
Ion	Ratio	Lower	Upper
101	100		
85	44.0	37.0	55.6
151	75.2	58.6	87.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

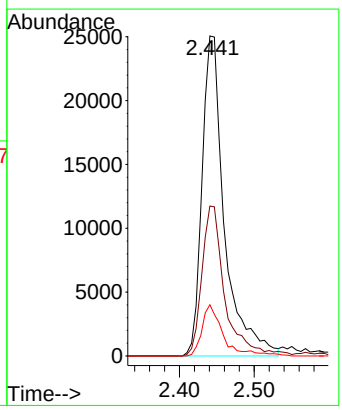


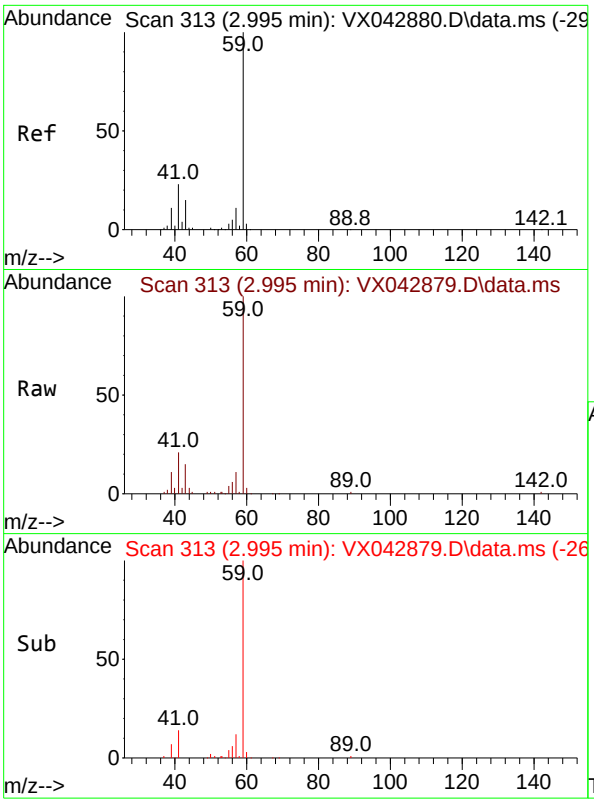


#10
Methyl Iodide
Concen: 20.618 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion:142 Resp: 52181

Ion	Ratio	Lower	Upper
142	100		
127	47.9	41.6	62.4
141	15.1	11.6	17.4

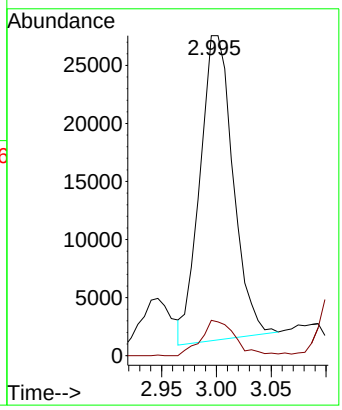




#11
Tert butyl alcohol
Concen: 90.117 ug/l
RT: 2.995 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 59 Resp: 5527

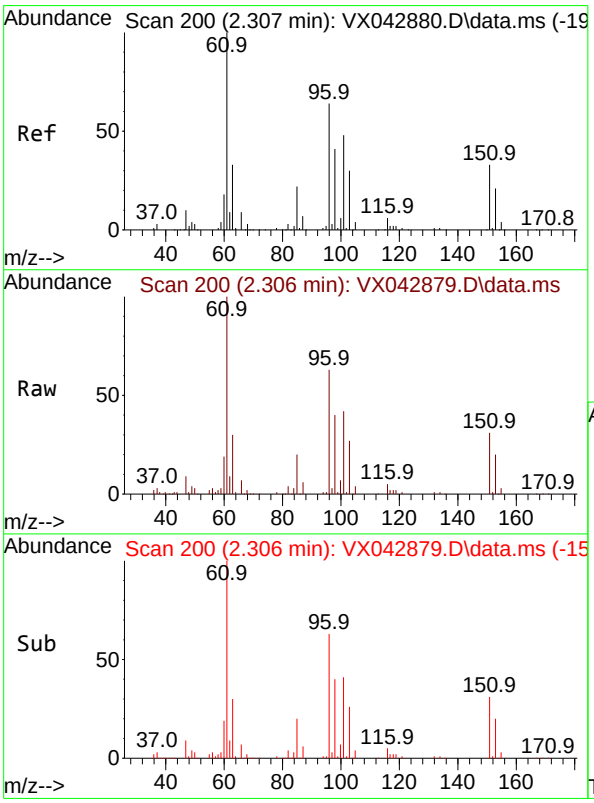
Ion	Ratio	Lower	Upper
59	100		
57	12.0	6.0	9.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

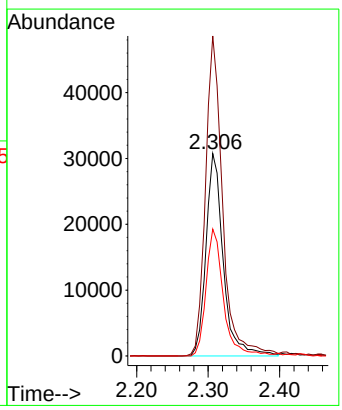
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

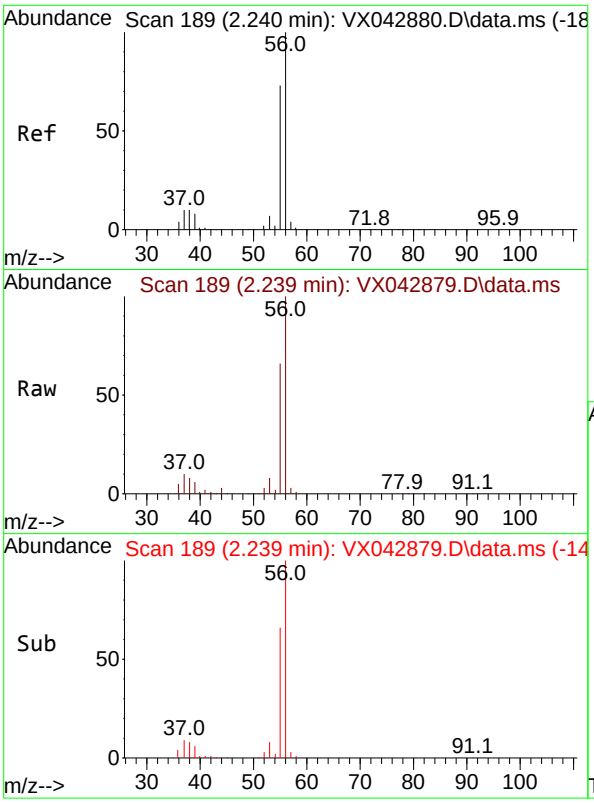


#12
1,1-Dichloroethene
Concen: 20.851 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 96 Resp: 51628

Ion	Ratio	Lower	Upper
96	100		
61	158.1	144.6	216.8
98	62.7	50.4	75.6

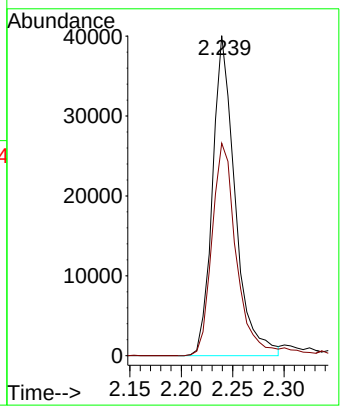




#13
Acrolein
Concen: 101.360 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 56 Resp: 6128

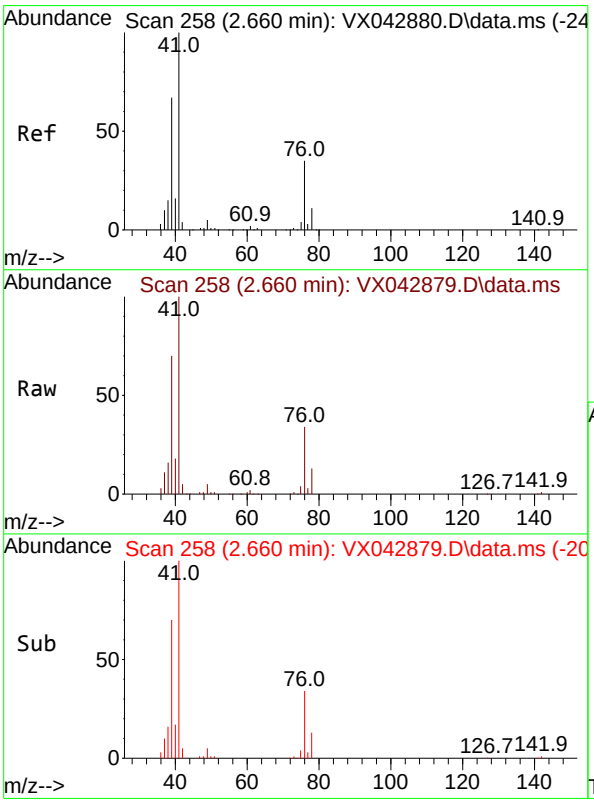
Ion	Ratio	Lower	Upper
56	100		
55	73.2	57.1	85.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

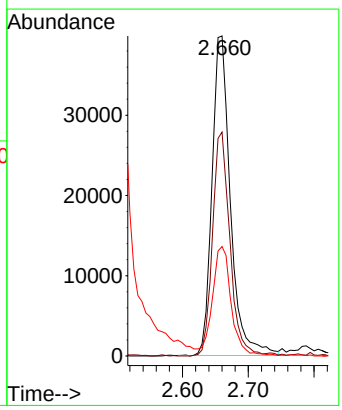
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

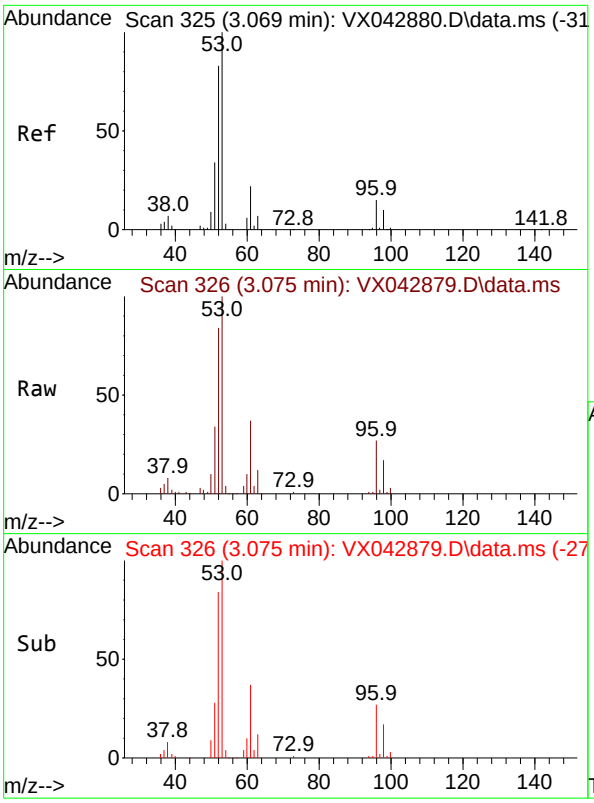


#14
Allyl chloride
Concen: 20.751 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 41 Resp: 77636

Ion	Ratio	Lower	Upper
41	100		
39	66.0	55.8	83.6
76	34.6	24.3	36.5

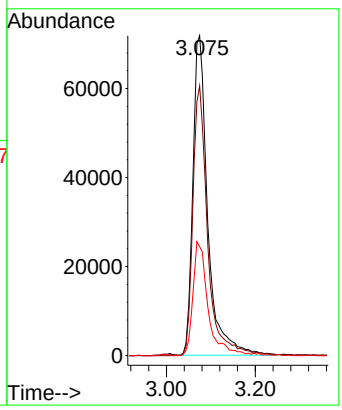




#15
Acrylonitrile
Concen: 106.526 ug/l
RT: 3.075 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 53 Resp: 16678

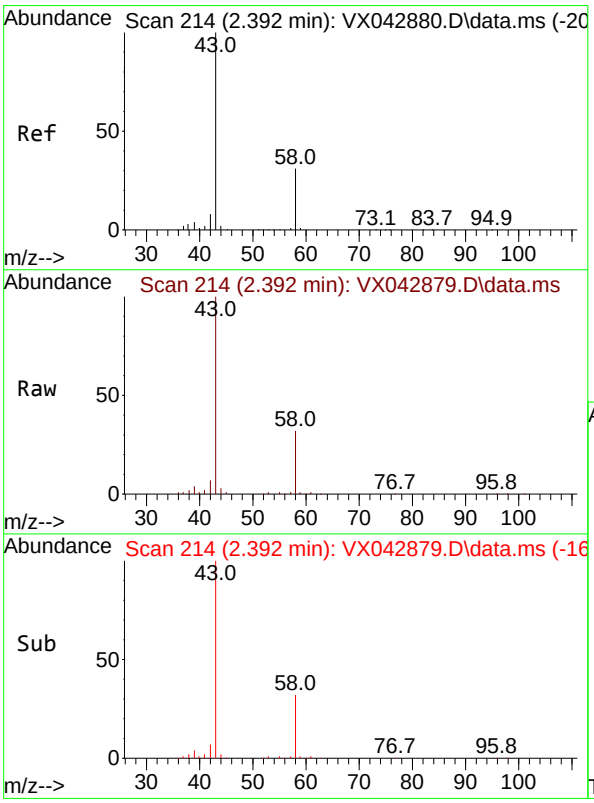
Ion	Ratio	Lower	Upper
53	100		
52	84.1	66.0	99.0
51	35.9	29.8	44.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

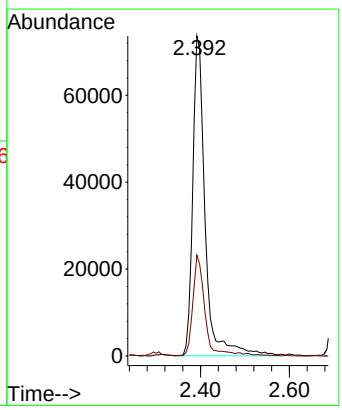
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

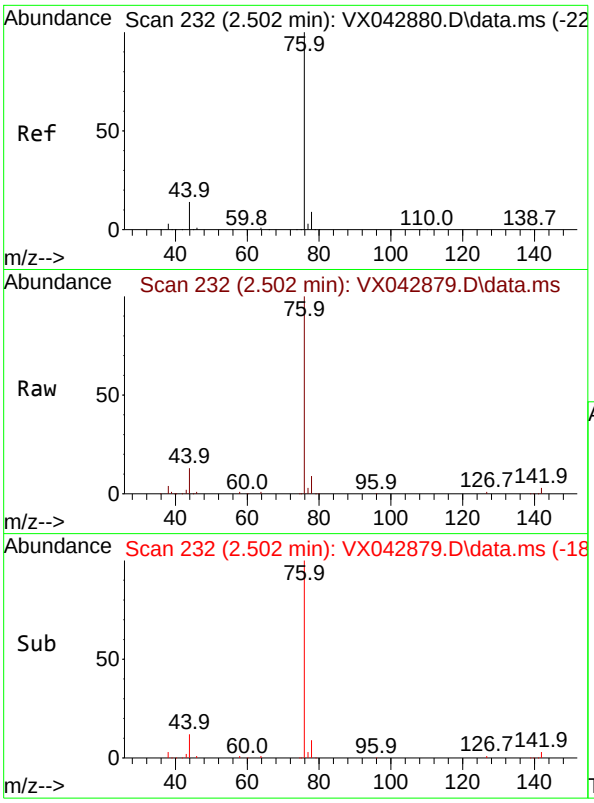


#16
Acetone
Concen: 106.177 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 43 Resp: 142025

Ion	Ratio	Lower	Upper
43	100		
58	31.4	21.9	32.9





#17
Carbon Disulfide
Concen: 19.757 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

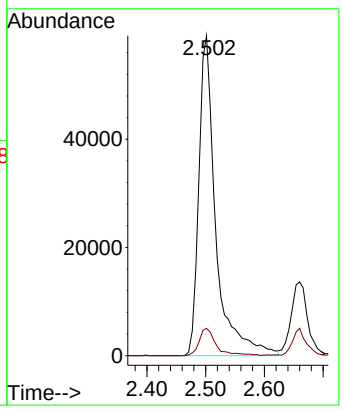
Tgt Ion: 76 Resp: 11904

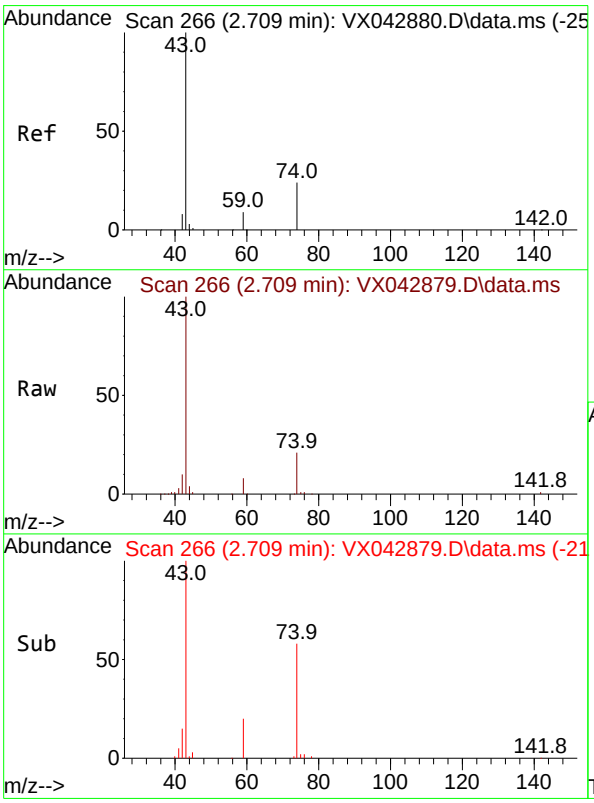
Ion	Ratio	Lower	Upper
76	100		
78	8.5	7.0	10.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

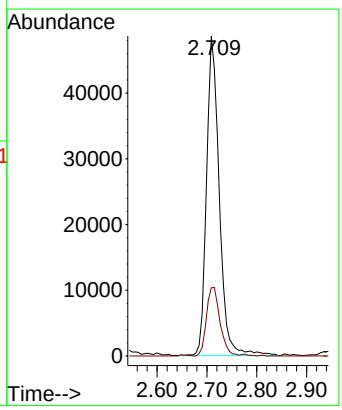


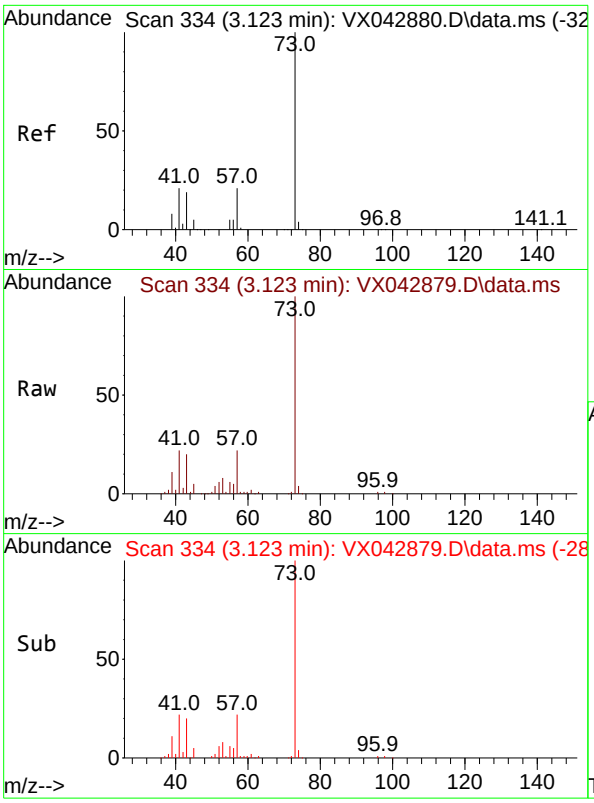


#18
Methyl Acetate
Concen: 20.437 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 43 Resp: 86690

Ion	Ratio	Lower	Upper
43	100		
74	22.6	17.8	26.8

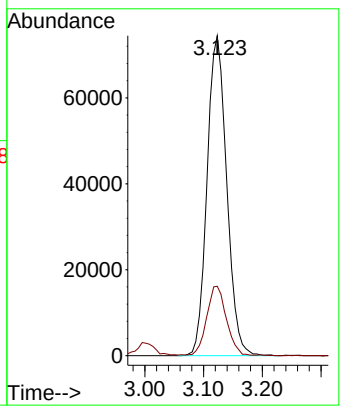




#19
Methyl tert-butyl Ether
Concen: 20.718 ug/l
RT: 3.123 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 73 Resp: 17266

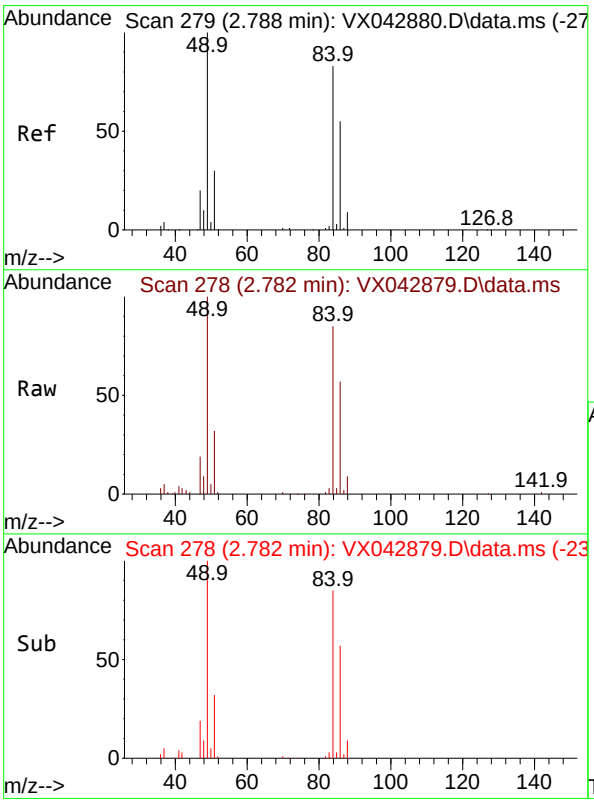
Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.3	25.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

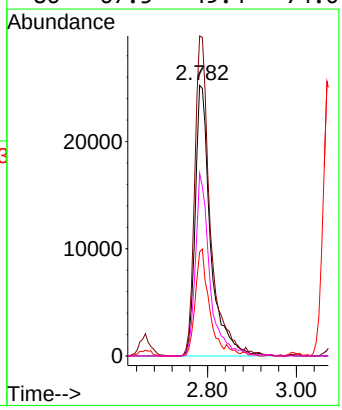
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

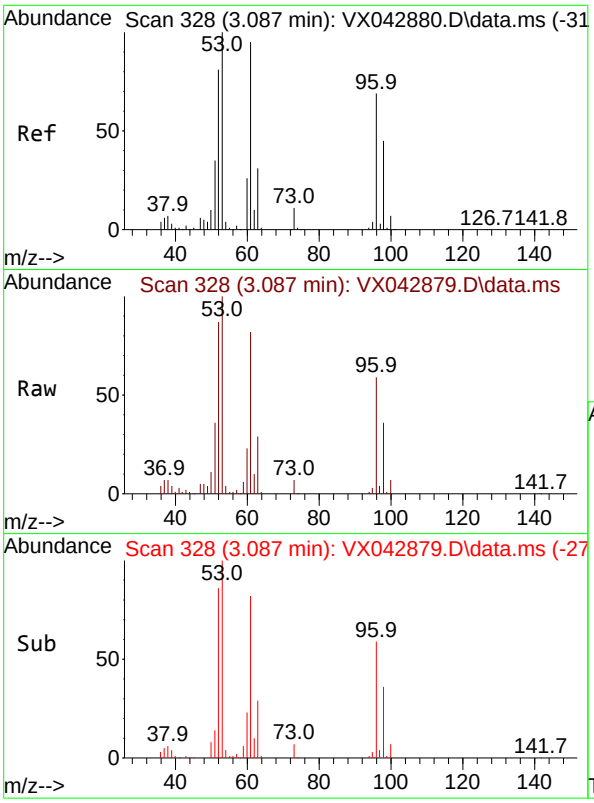


#20
Methylene Chloride
Concen: 21.319 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.006 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 84 Resp: 60824

Ion	Ratio	Lower	Upper
84	100		
49	118.3	103.6	155.4
51	38.4	33.8	50.6
86	67.5	49.4	74.0

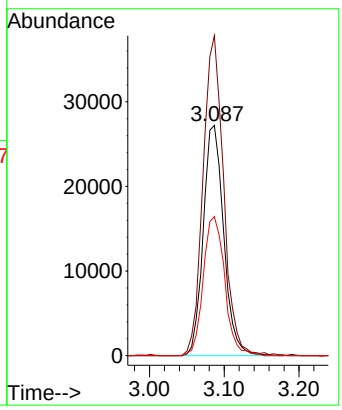




#21
trans-1,2-Dichloroethene
Concen: 20.795 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 96 Resp: 5180

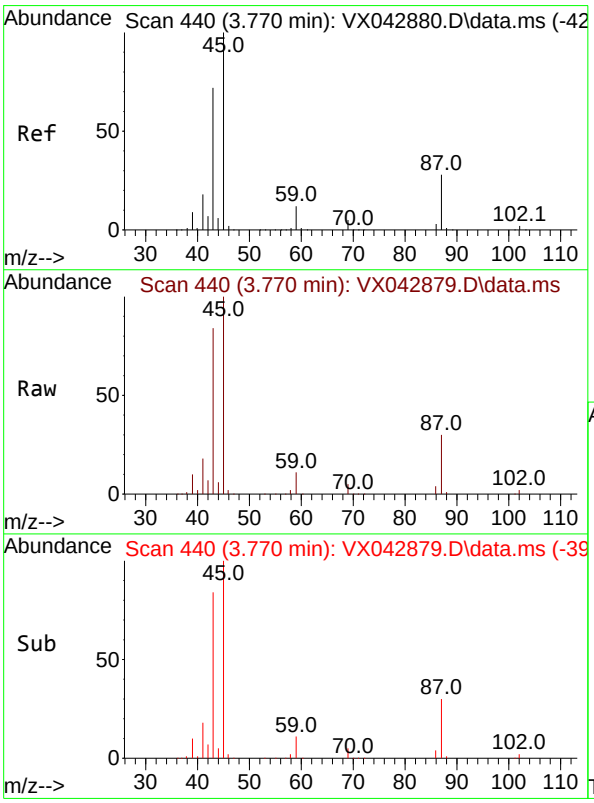
Ion	Ratio	Lower	Upper
96	100		
61	139.0	119.2	178.8
98	60.4	48.7	73.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

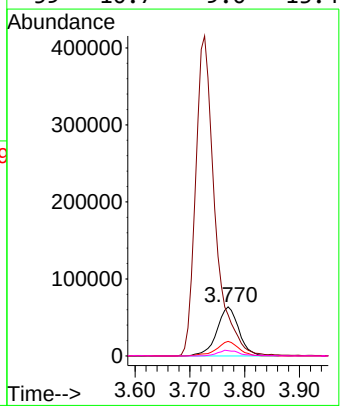
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

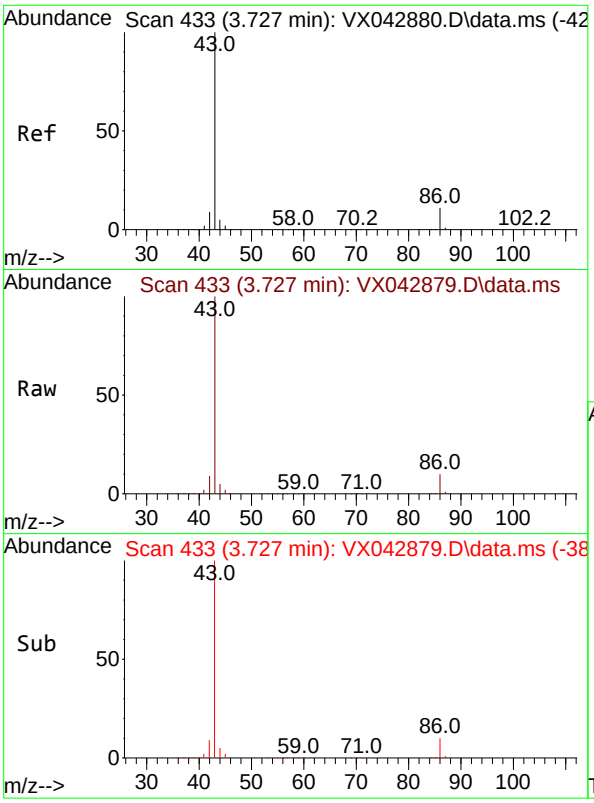


#22
Diisopropyl ether
Concen: 21.647 ug/l
RT: 3.770 min Scan# 440
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 45 Resp: 177921

Ion	Ratio	Lower	Upper
45	100		
43	83.3	69.7	104.5
87	29.8	20.8	31.2
59	10.7	9.0	13.4





#23
Vinyl Acetate
Concen: 109.825 ug/l
RT: 3.727 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

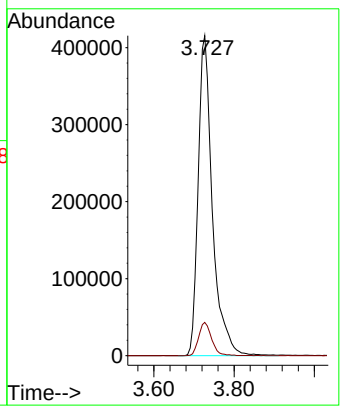
Tgt Ion: 43 Resp: 102448

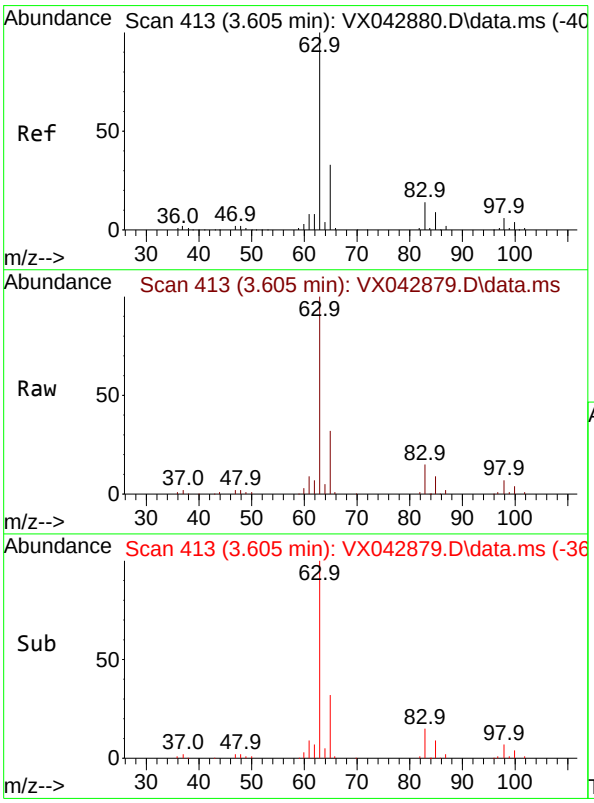
Ion	Ratio	Lower	Upper
43	100		
86	10.4	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

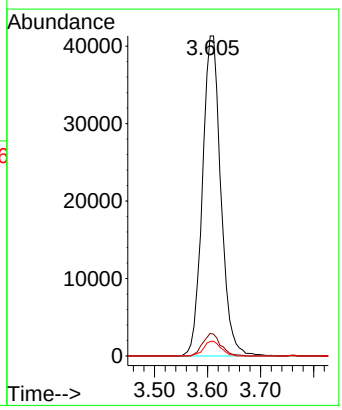


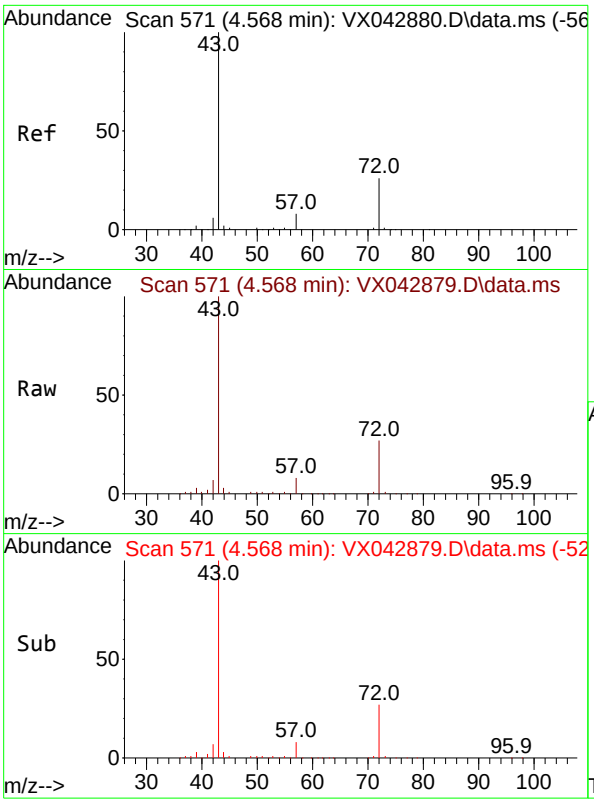


#24
1,1-Dichloroethane
Concen: 21.103 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 63 Resp: 99756

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.3	9.8
100	4.5	2.1	6.5





#25
2-Butanone
Concen: 109.097 ug/l
RT: 4.568 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

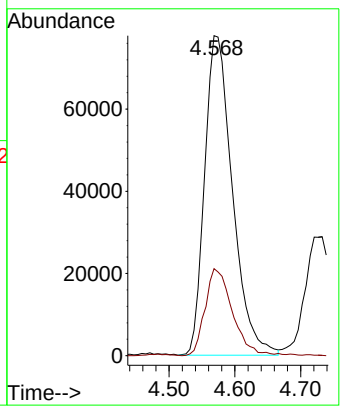
Tgt Ion: 43 Resp: 22917

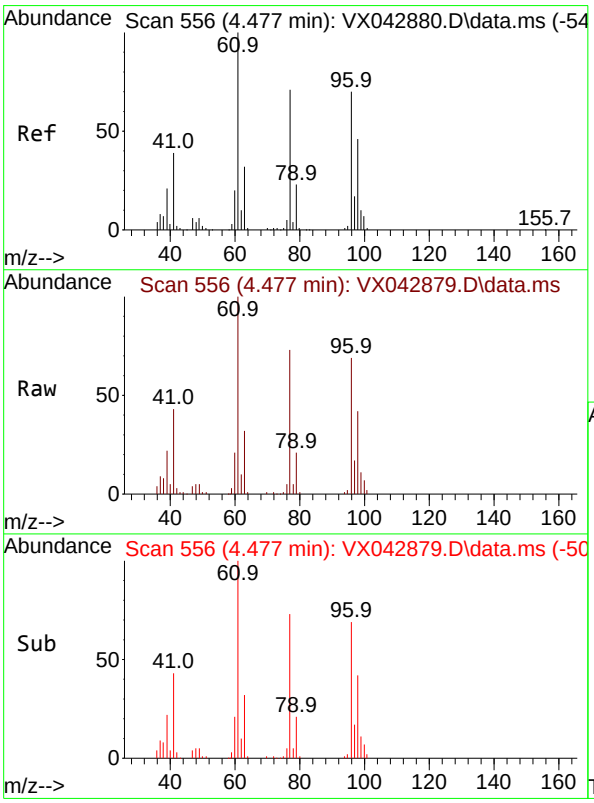
Ion	Ratio	Lower	Upper
43	100		
72	27.1	19.4	29.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

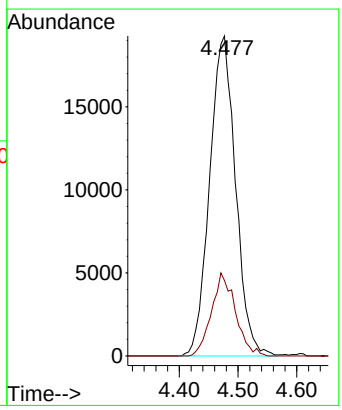


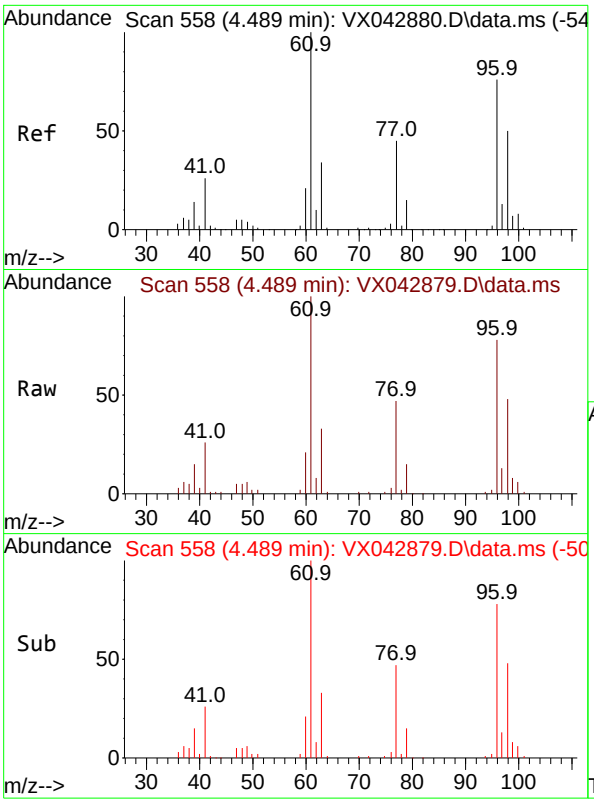


#26
2,2-Dichloropropane
Concen: 20.339 ug/l
RT: 4.477 min Scan# 556
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 77 Resp: 59106

Ion	Ratio	Lower	Upper
77	100		
97	24.0	10.8	32.3





#27
cis-1,2-Dichloroethene
Concen: 21.549 ug/l
RT: 4.489 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

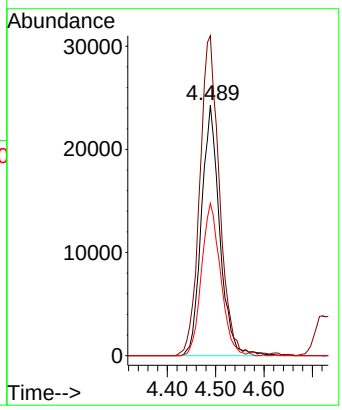
Tgt Ion: 96 Resp: 6366

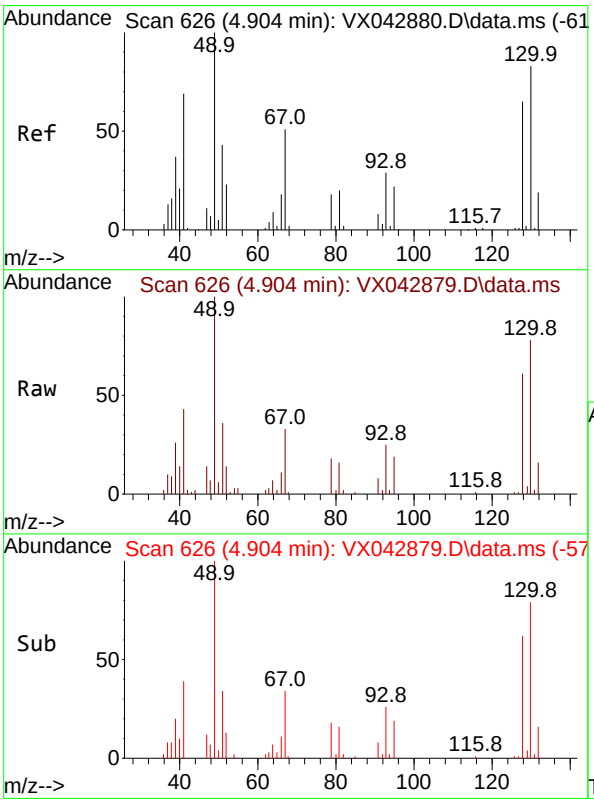
Ion	Ratio	Lower	Upper
96	100		
61	137.8	0.0	312.2
98	63.5	0.0	129.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

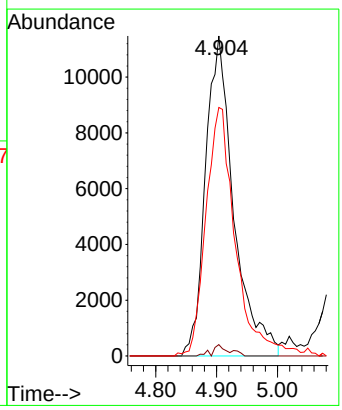


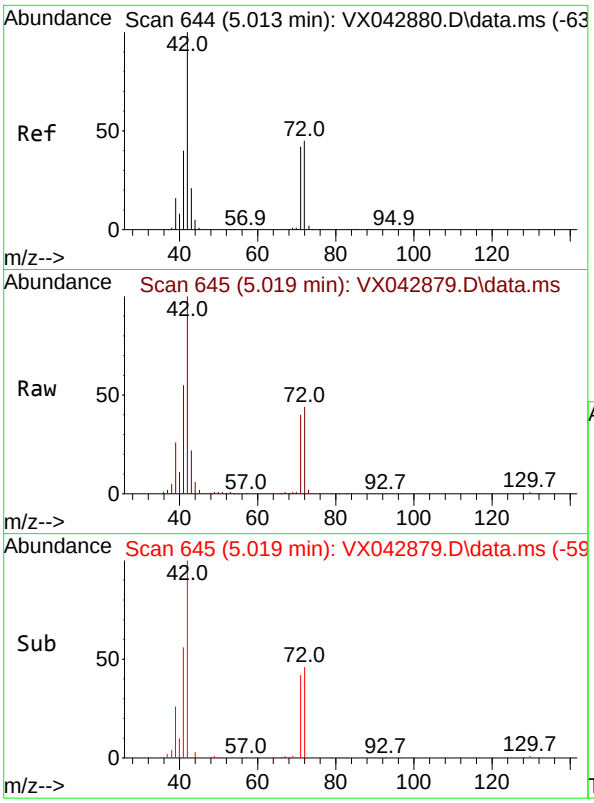


#28
Bromochloromethane
Concen: 20.390 ug/l
RT: 4.904 min Scan# 626
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 49 Resp: 36983

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.8
130	81.0	57.5	86.3

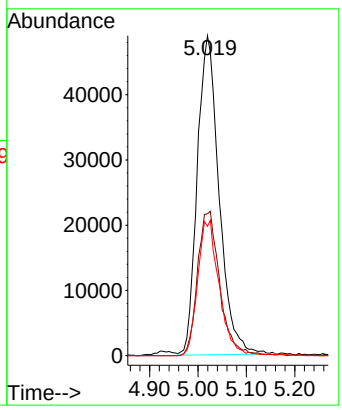




#29
Tetrahydrofuran
Concen: 108.081 ug/l
RT: 5.019 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 42 Resp: 153418

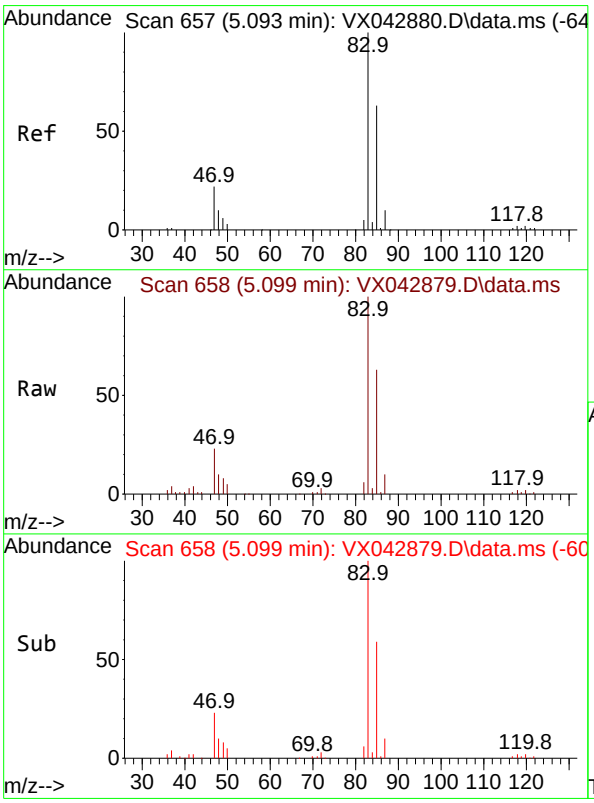
Ion	Ratio	Lower	Upper
42	100		
72	46.1	34.2	51.4
71	41.9	32.2	48.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

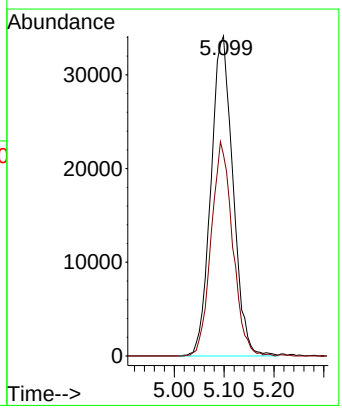
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

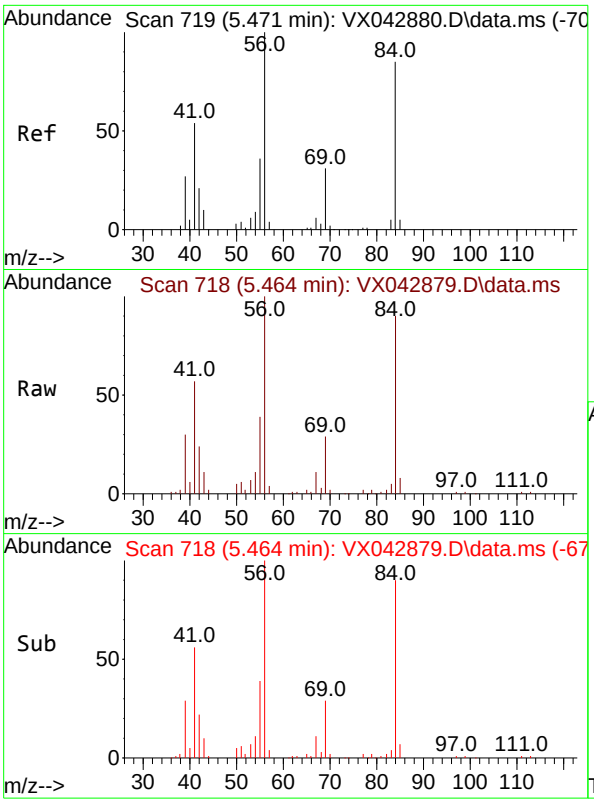


#30
Chloroform
Concen: 21.170 ug/l
RT: 5.099 min Scan# 658
Delta R.T. 0.006 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 83 Resp: 104762

Ion	Ratio	Lower	Upper
83	100		
85	62.8	50.3	75.5





#31
Cyclohexane
Concen: 20.854 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

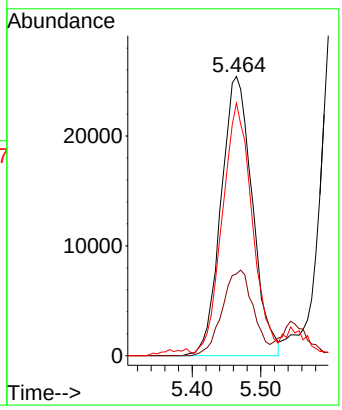
Tgt Ion: 56 Resp: 8047

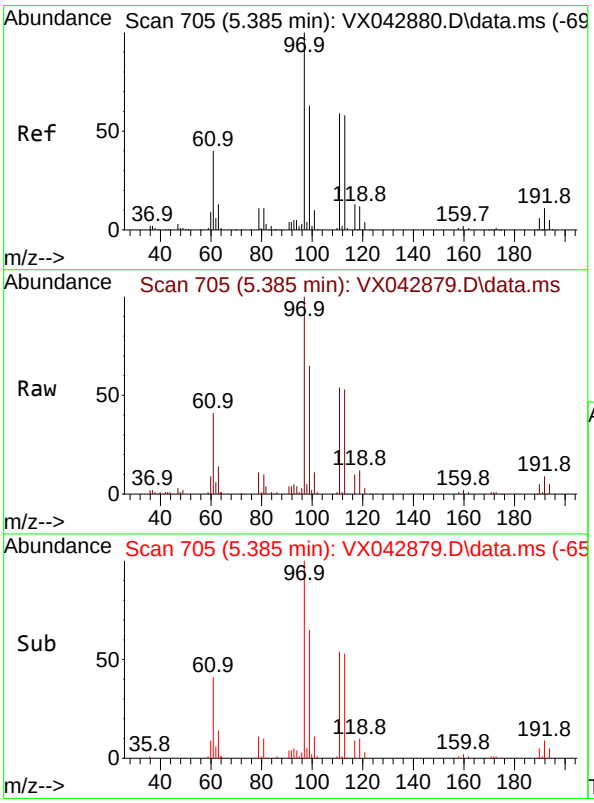
Ion	Ratio	Lower	Upper
56	100		
69	29.3	23.4	35.2
84	88.7	65.9	98.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

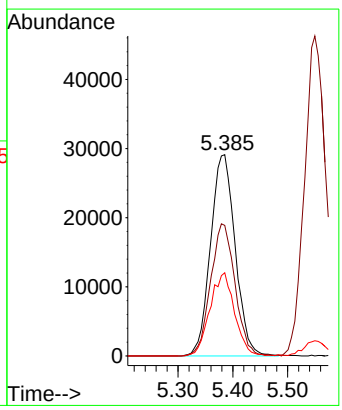


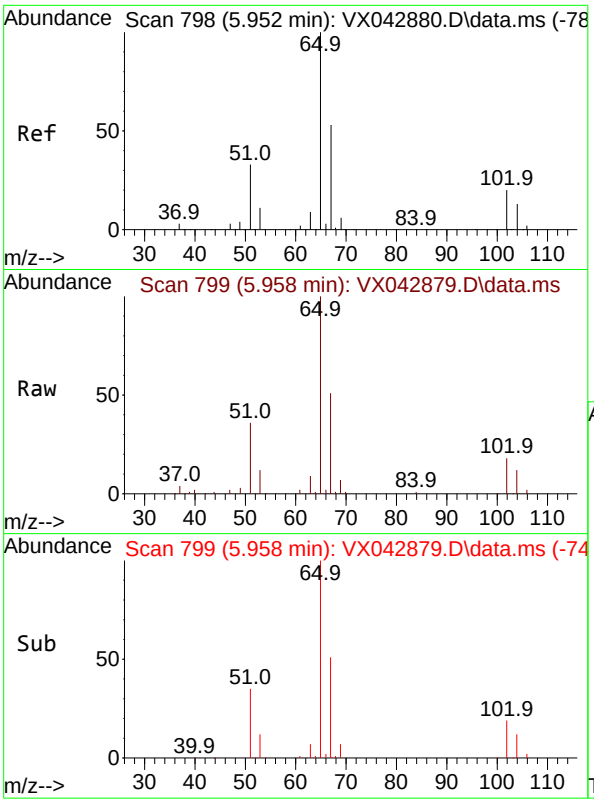


#32
1,1,1-Trichloroethane
Concen: 20.882 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 97 Resp: 90970

Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.1	76.7
61	41.2	36.4	54.6

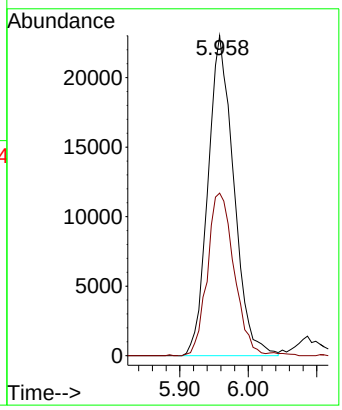




#33
1,2-Dichloroethane-d4
Concen: 19.489 ug/l
RT: 5.958 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 65 Resp: 6010

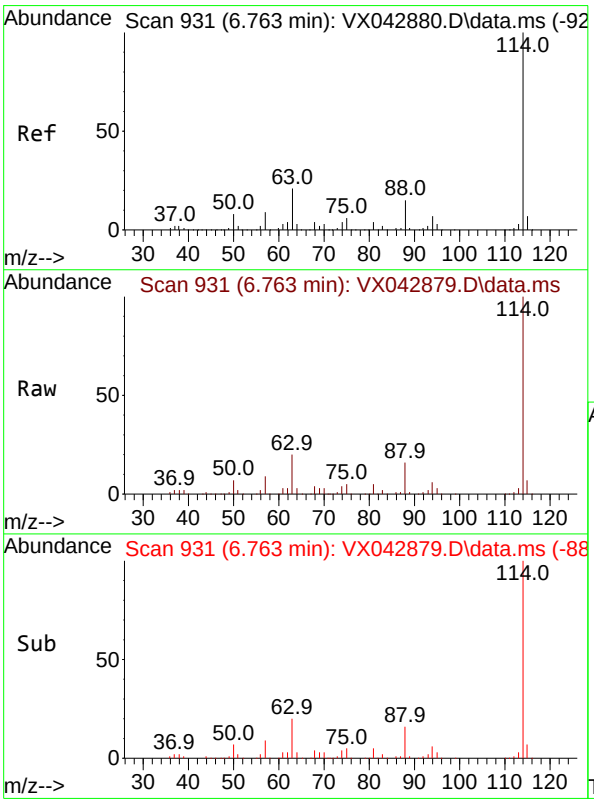
Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	100.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

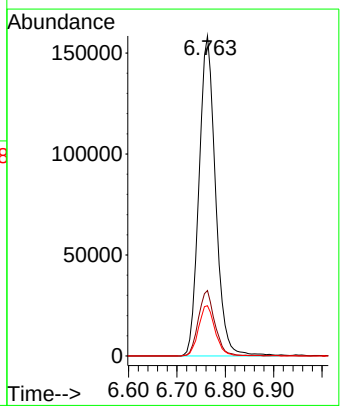
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

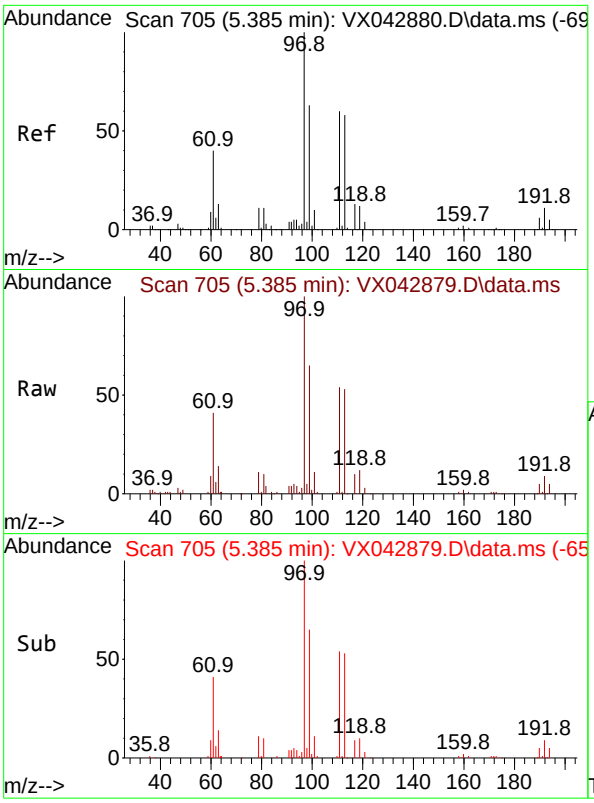


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion:114 Resp: 376641

Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	45.0
88	15.7	0.0	36.6

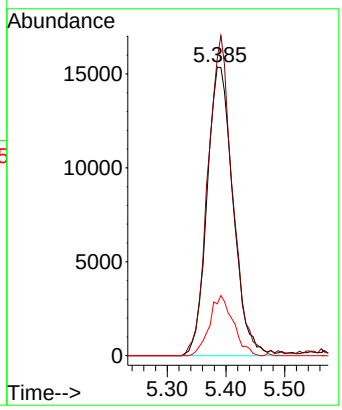




#35
Dibromofluoromethane
Concen: 19.249 ug/l
RT: 5.385 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion:113 Resp: 4740

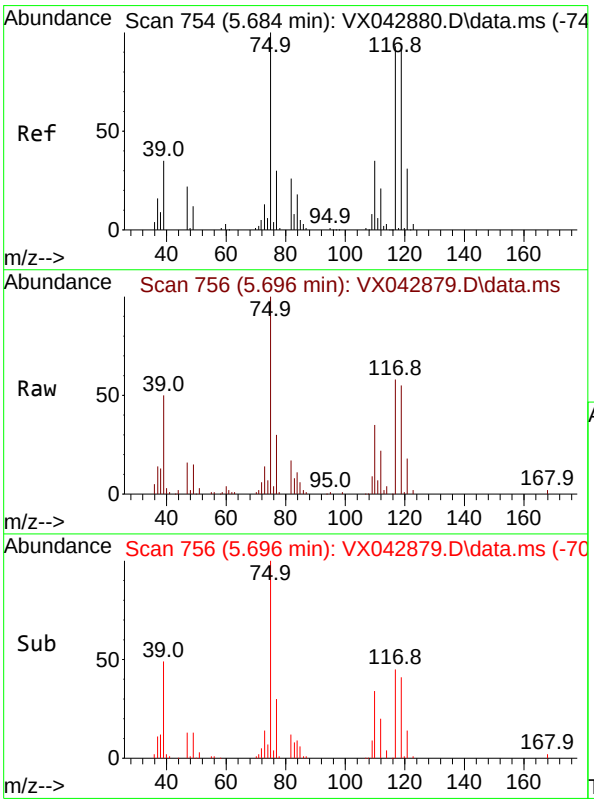
Ion	Ratio	Lower	Upper
113	100		
111	104.7	82.9	124.3
192	19.0	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

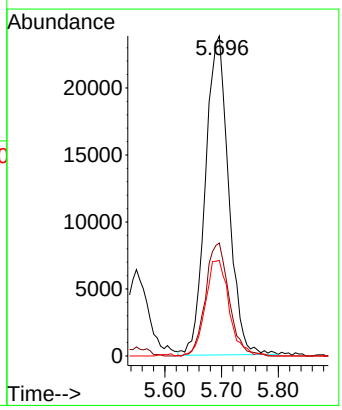
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

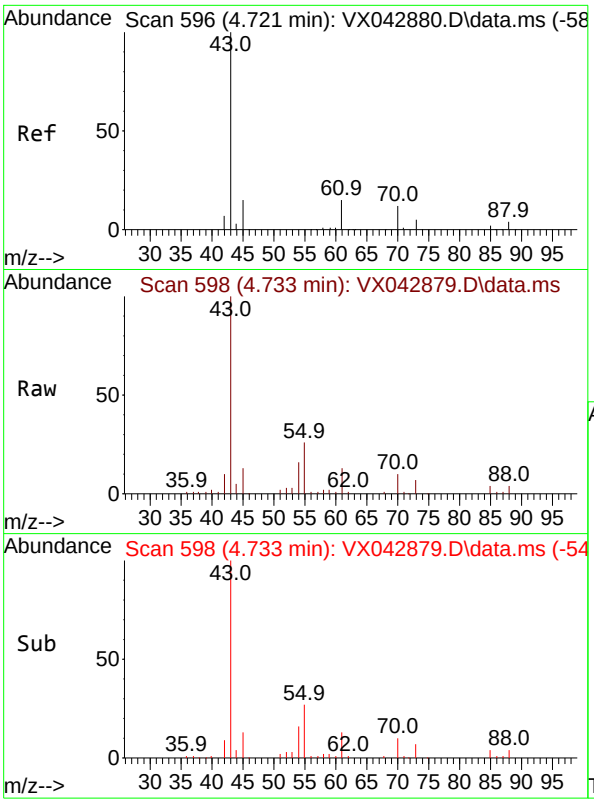


#36
1,1-Dichloropropene
Concen: 20.225 ug/l
RT: 5.696 min Scan# 756
Delta R.T. 0.012 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 75 Resp: 67528

Ion	Ratio	Lower	Upper
75	100		
110	35.9	17.0	50.9
77	30.9	24.7	37.1





#37
Ethyl Acetate
Concen: 21.537 ug/l
RT: 4.733 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

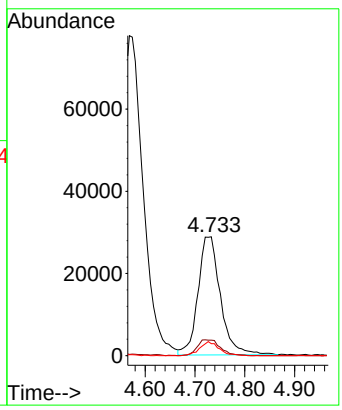
Tgt Ion: 43 Resp: 8997

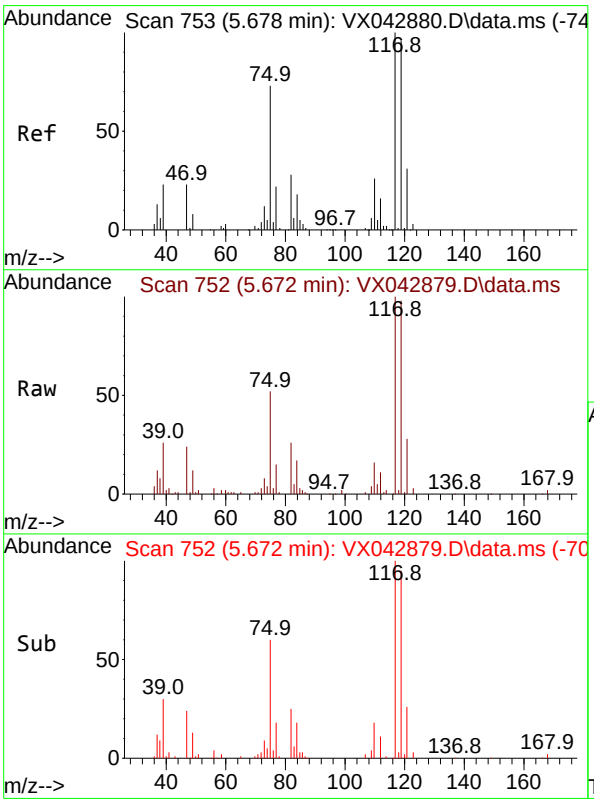
Ion	Ratio	Lower	Upper
43	100		
61	13.8	10.6	16.0
70	10.2	8.3	12.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

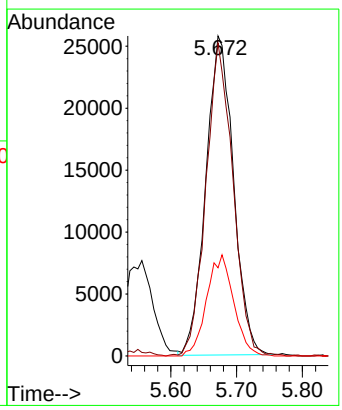


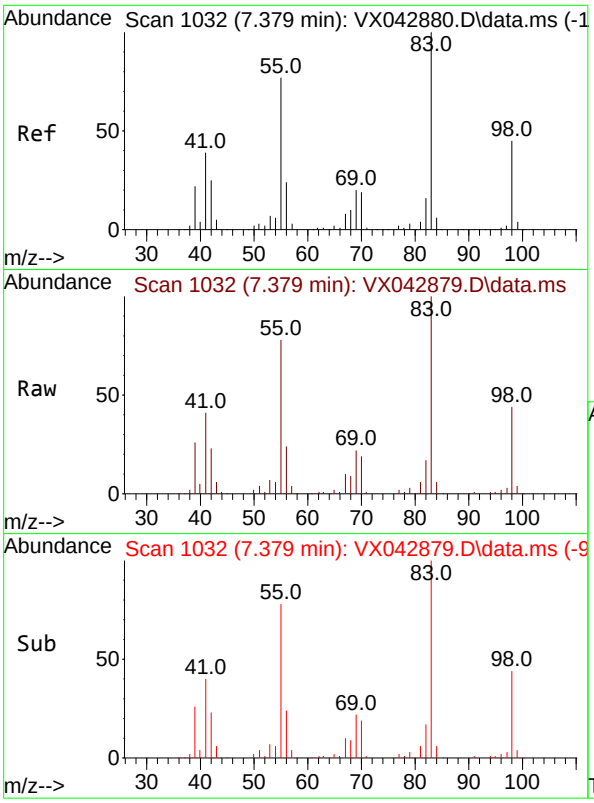


#38
Carbon Tetrachloride
Concen: 19.986 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.006 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion:117 Resp: 75328

Ion	Ratio	Lower	Upper
117	100		
119	97.9	78.2	117.2
121	27.7	24.4	36.6

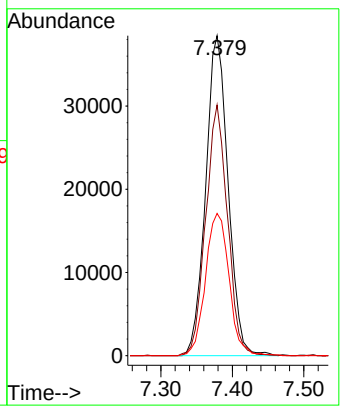




#39
Methylcyclohexane
Concen: 21.077 ug/l
RT: 7.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 83 Resp: 8365

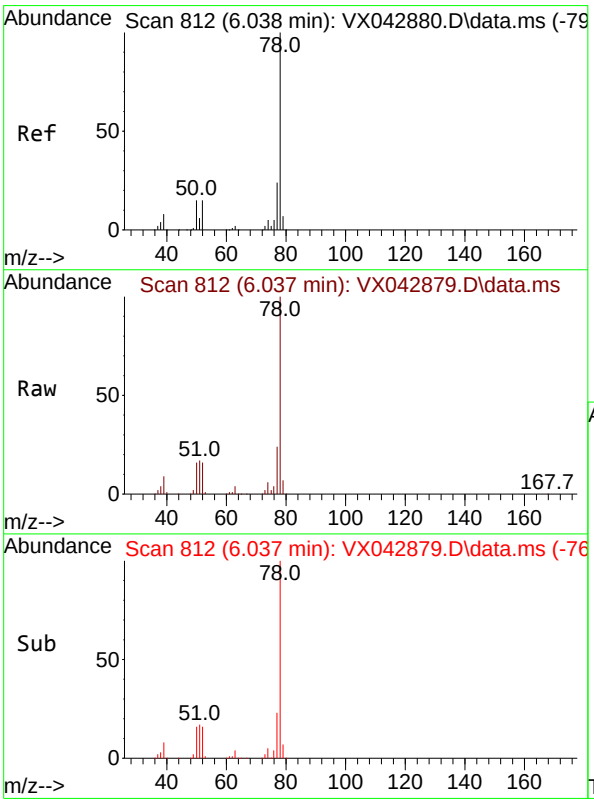
Ion	Ratio	Lower	Upper
83	100		
55	78.4	64.6	97.0
98	44.5	36.7	55.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

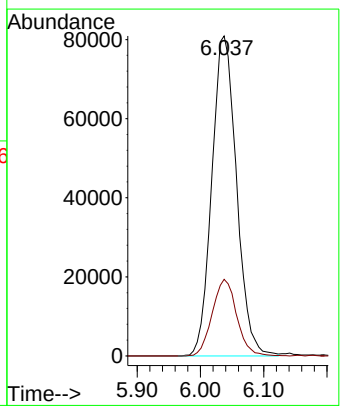
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

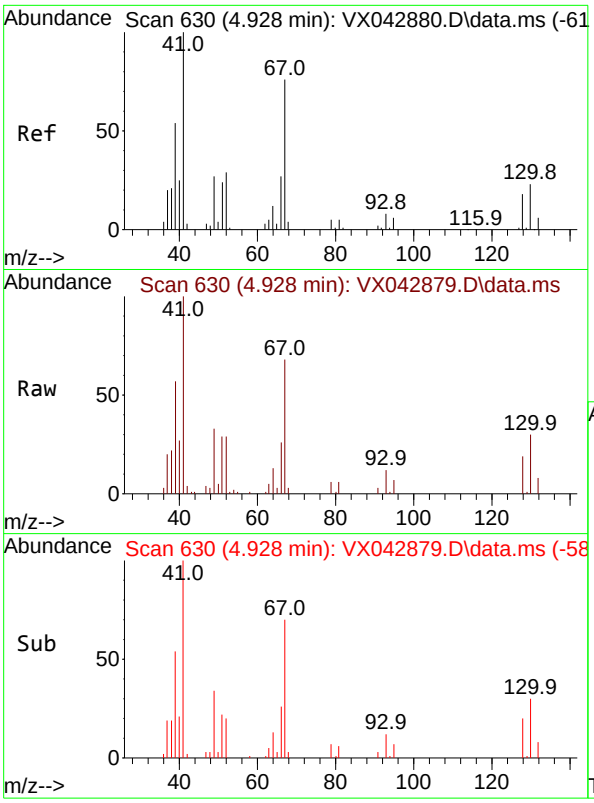


#40
Benzene
Concen: 21.175 ug/l
RT: 6.037 min Scan# 812
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 78 Resp: 219425

Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.3	28.9

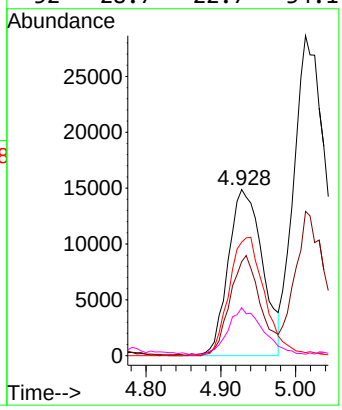




#41
Methacrylonitrile
Concen: 22.055 ug/l
RT: 4.928 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 41 Resp: 4745

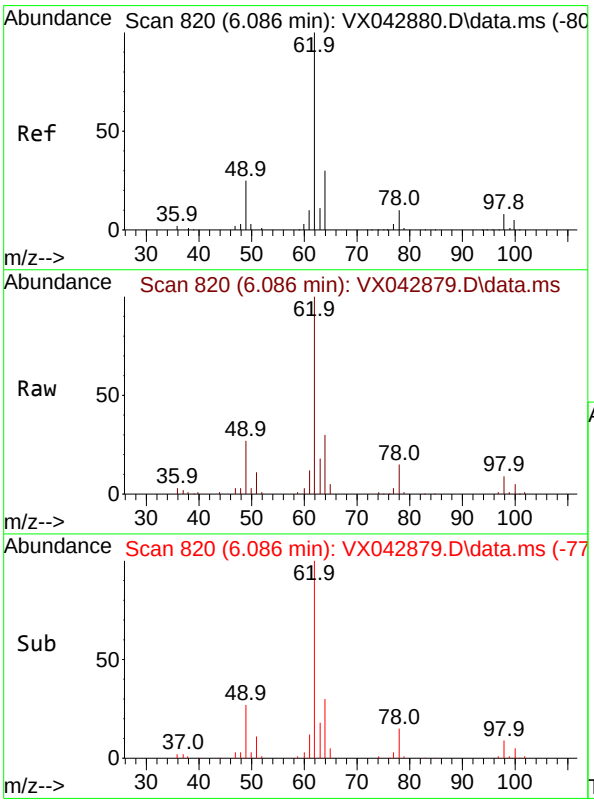
Ion	Ratio	Lower	Upper
41	100		
39	53.8	45.2	67.8
67	73.7	52.6	78.8
52	28.7	22.7	34.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

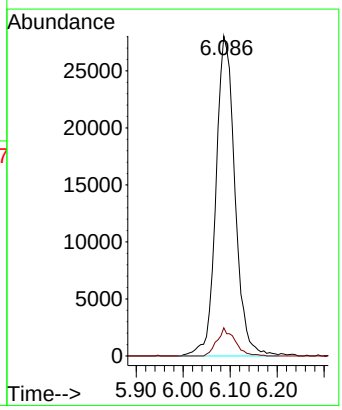
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

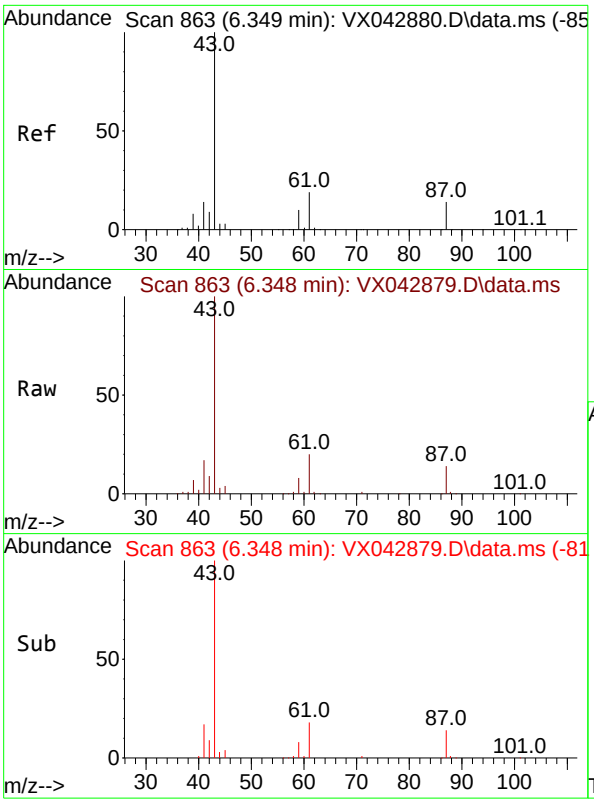


#42
1,2-Dichloroethane
Concen: 20.943 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 62 Resp: 78939

Ion	Ratio	Lower	Upper
62	100		
98	8.3	0.0	16.0





#43
Isopropyl Acetate
Concen: 20.761 ug/l
RT: 6.348 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

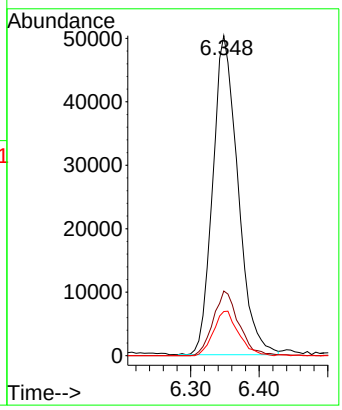
Tgt Ion: 43 Resp: 12826

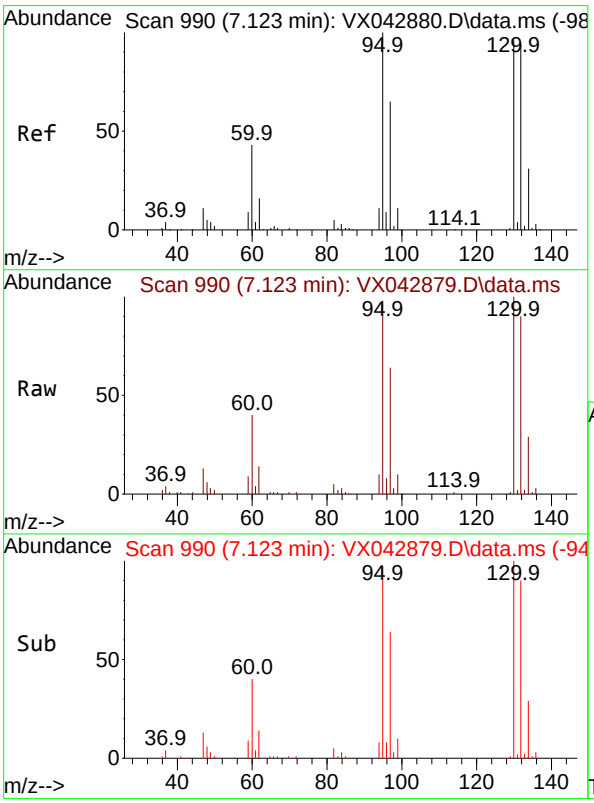
Ion	Ratio	Lower	Upper
43	100		
61	20.6	15.2	22.8
87	13.9	9.8	14.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

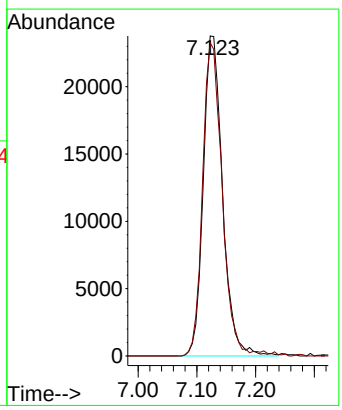


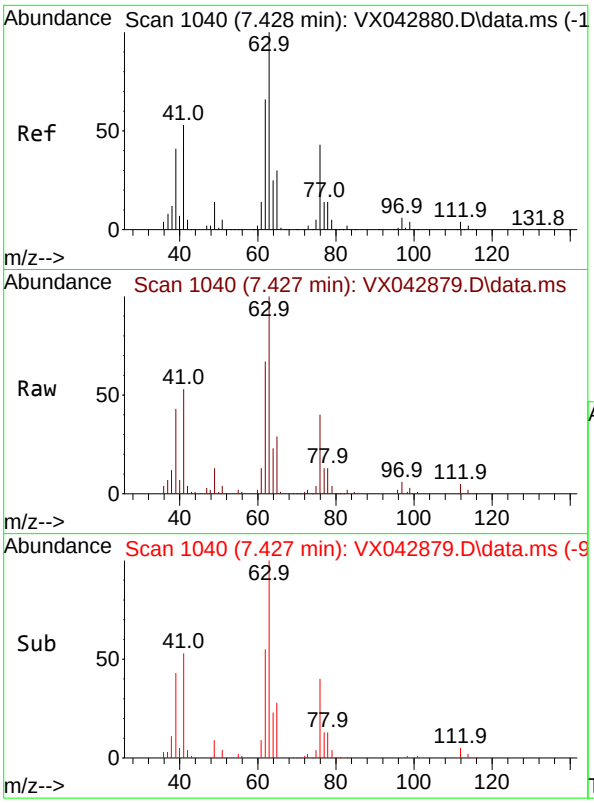


#44
Trichloroethene
Concen: 20.799 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion:130 Resp: 54155

Ion	Ratio	Lower	Upper
130	100		
95	97.8	0.0	204.4





#45
1,2-Dichloropropane
Concen: 21.241 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

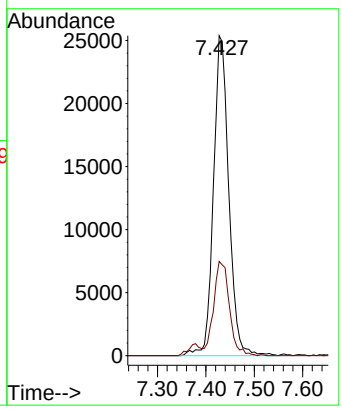
Tgt Ion: 63 Resp: 5583

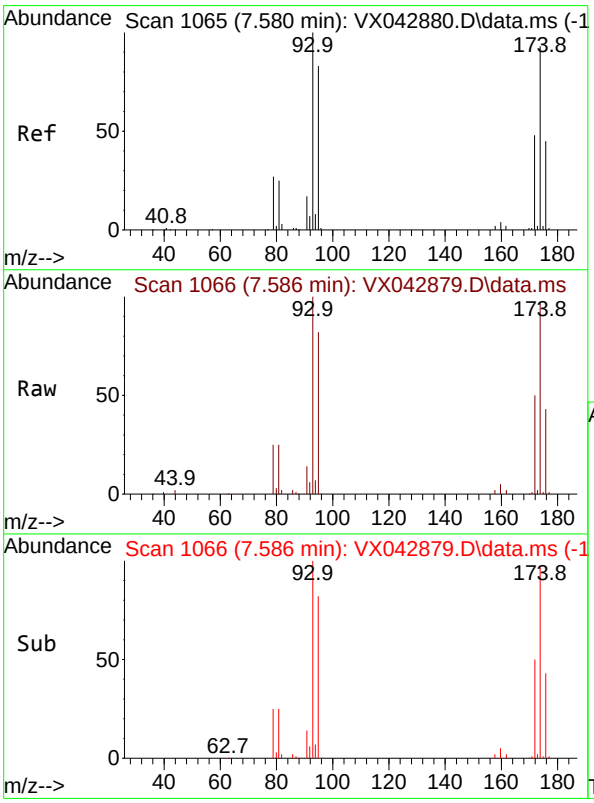
Ion	Ratio	Lower	Upper
63	100		
65	29.4	24.3	36.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

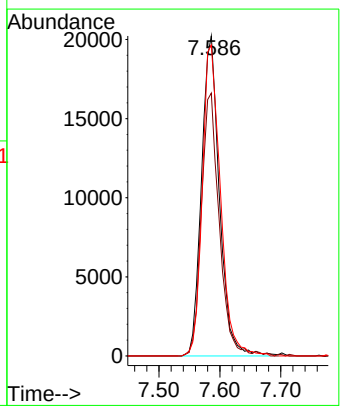


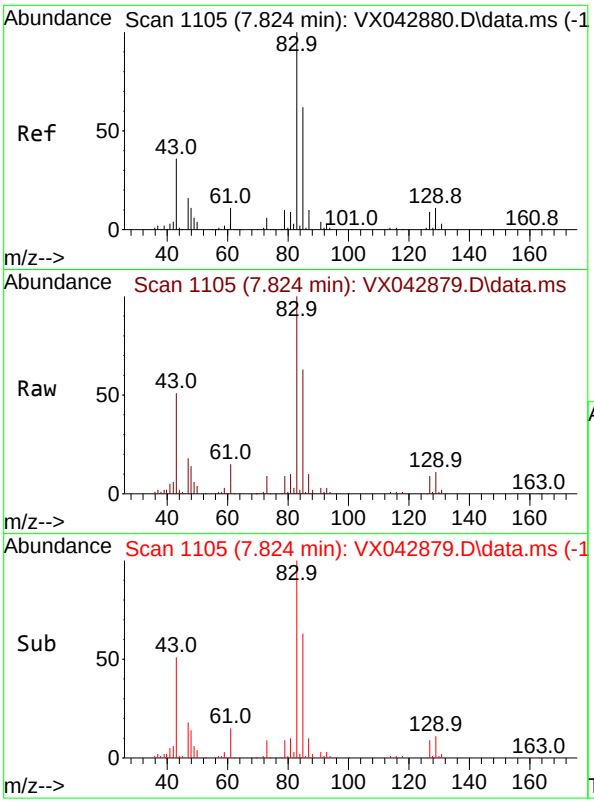


#46
Dibromomethane
Concen: 21.390 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 93 Resp: 41295

Ion	Ratio	Lower	Upper
93	100		
95	81.4	66.6	100.0
174	98.4	69.4	104.0

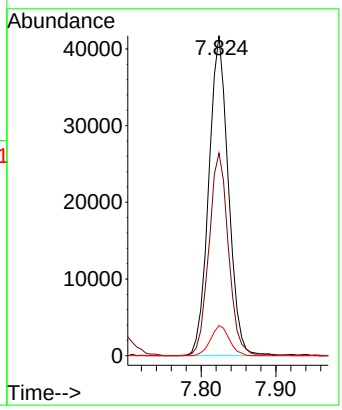




#47
Bromodichloromethane
Concen: 21.179 ug/l
RT: 7.824 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 83 Resp: 7595

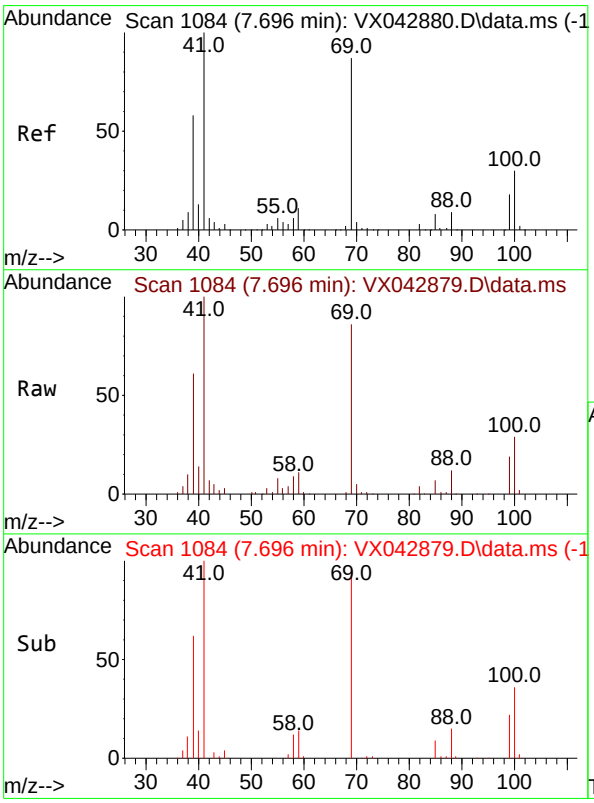
Ion	Ratio	Lower	Upper
83	100		
85	63.3	49.8	74.6
127	9.4	7.1	10.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

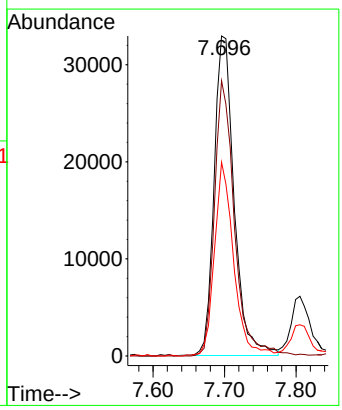
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

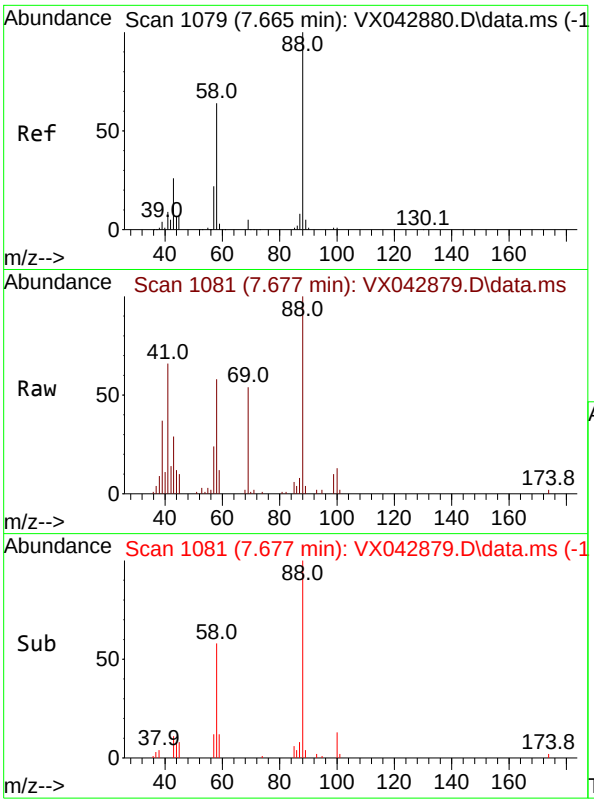


#48
Methyl methacrylate
Concen: 21.621 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 41 Resp: 64050

Ion	Ratio	Lower	Upper
41	100		
69	86.0	59.2	88.8
39	58.1	47.7	71.5





#49
1,4-Dioxane
Concen: 421.293 ug/l
RT: 7.677 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

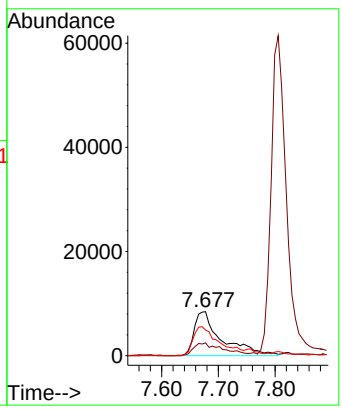
Tgt Ion: 88 Resp: 2833

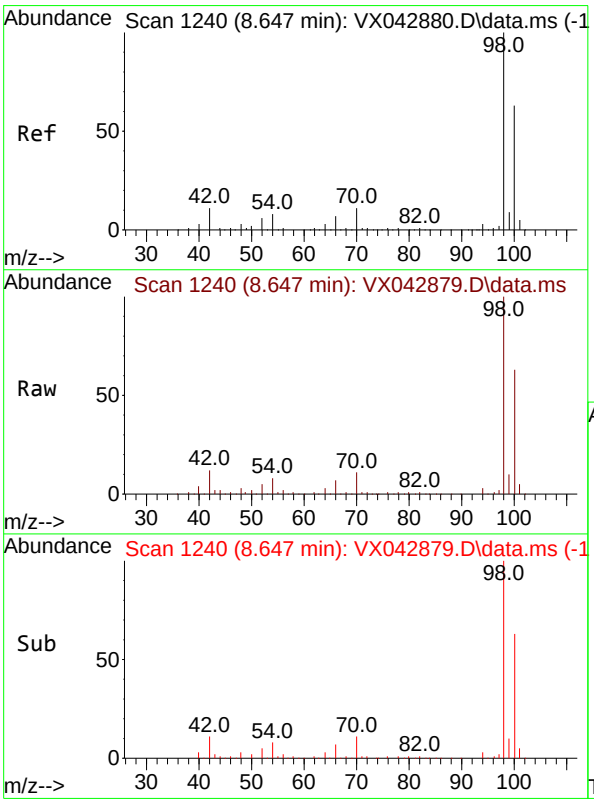
Ion	Ratio	Lower	Upper
88	100		
43	31.7	0.0	0.0
58	61.9	60.1	90.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

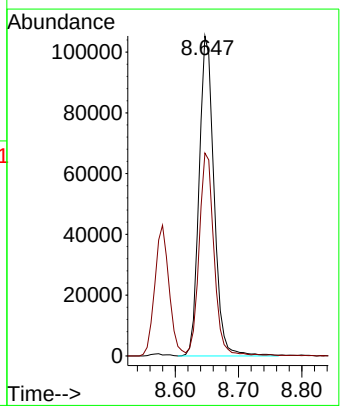


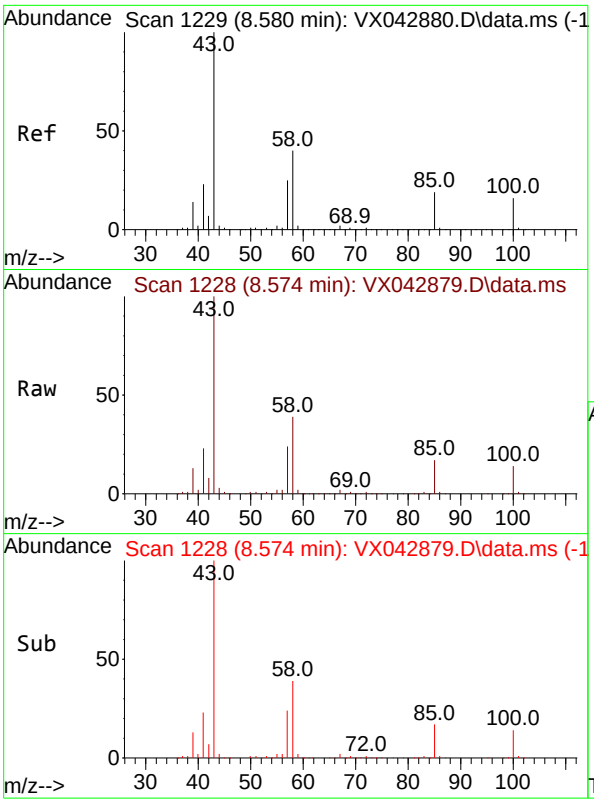


#50
Toluene-d8
Concen: 19.838 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 98 Resp: 173436

Ion	Ratio	Lower	Upper
98	100		
100	61.9	53.1	79.7





#51
4-Methyl-2-Pentanone
Concen: 111.309 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

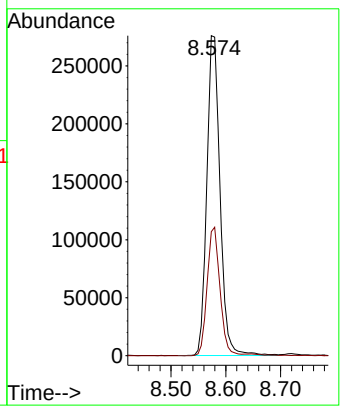
Tgt Ion: 43 Resp: 46063

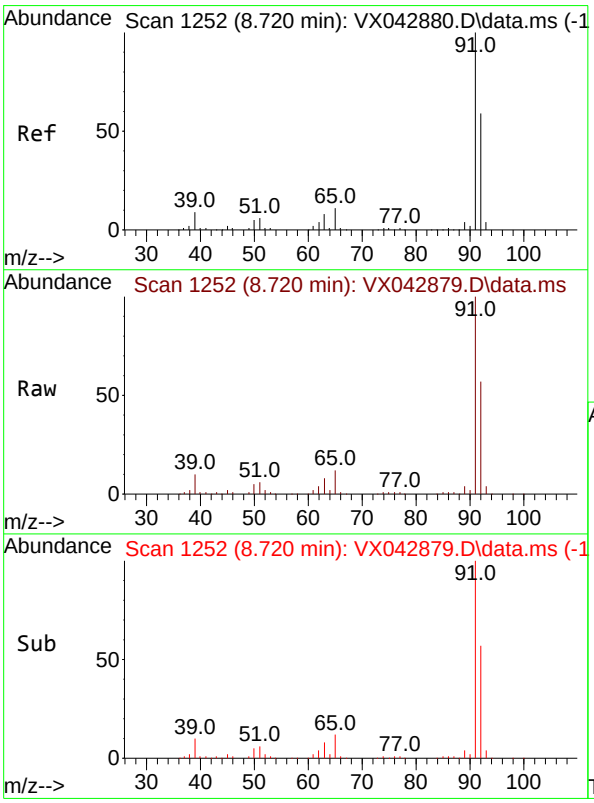
Ion	Ratio	Lower	Upper
43	100		
58	38.9	30.4	45.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

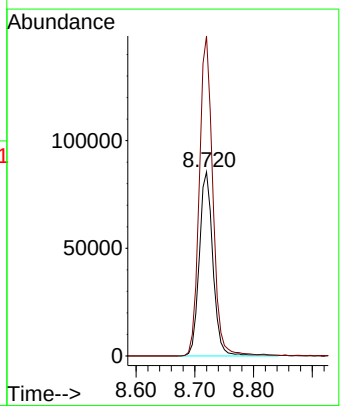


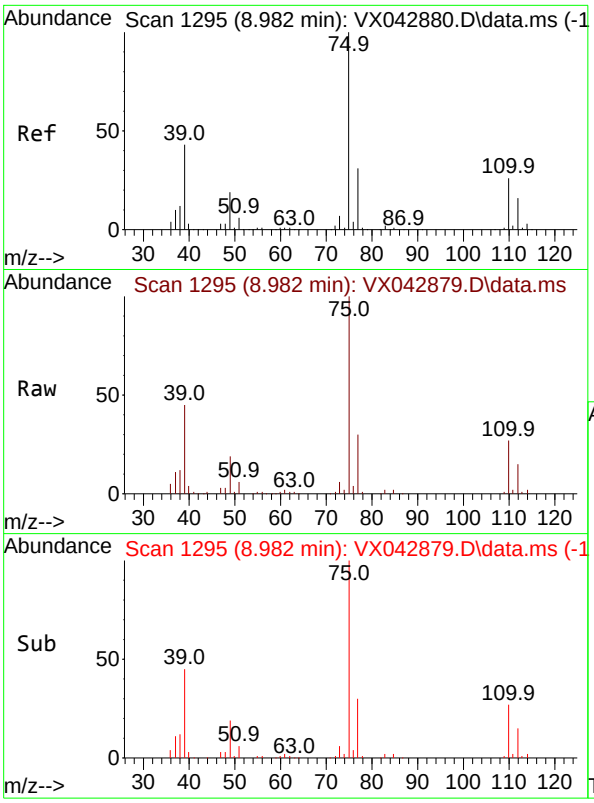


#52
Toluene
Concen: 21.928 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 92 Resp: 137830

Ion	Ratio	Lower	Upper
92	100		
91	171.6	134.2	201.2

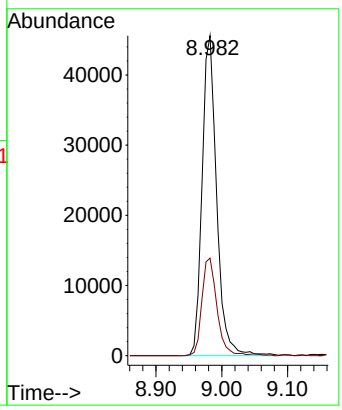




#53
t-1,3-Dichloropropene
Concen: 21.141 ug/l
RT: 8.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 75 Resp: 7008

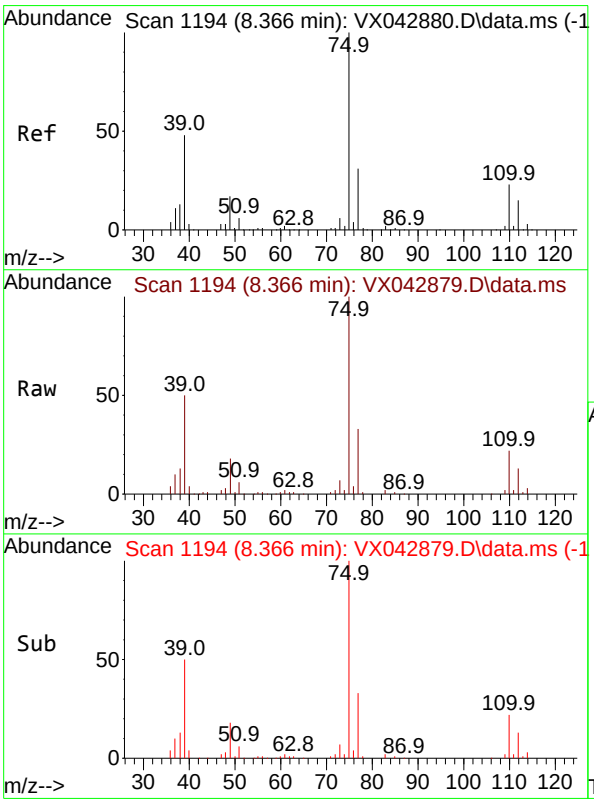
Ion	Ratio	Lower	Upper
75	100		
77	30.5	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

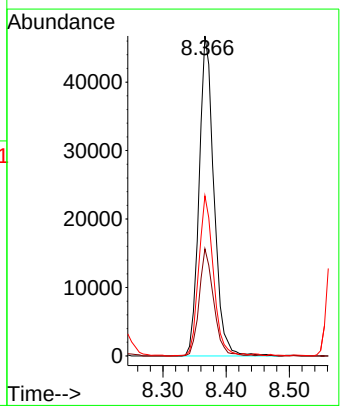
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

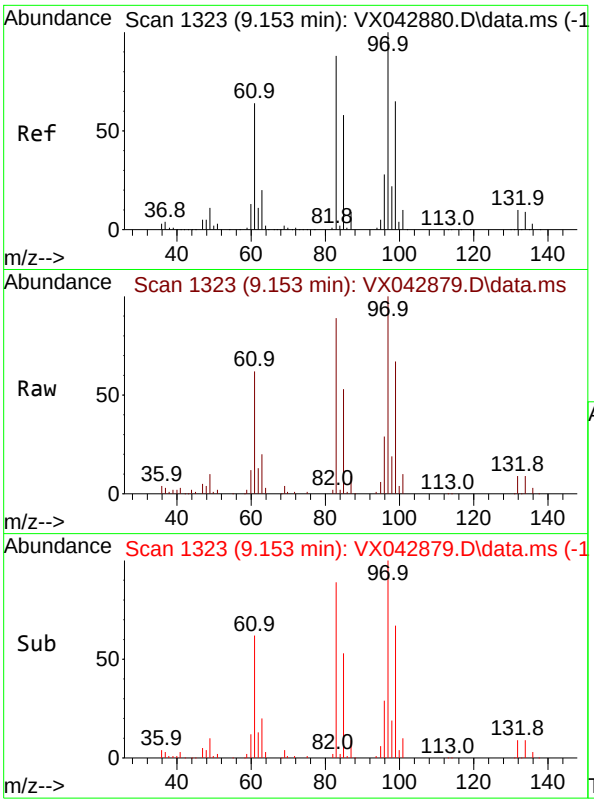


#54
cis-1,3-Dichloropropene
Concen: 20.896 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 75 Resp: 76508

Ion	Ratio	Lower	Upper
75	100		
77	33.5	25.3	37.9
39	49.9	46.7	70.1

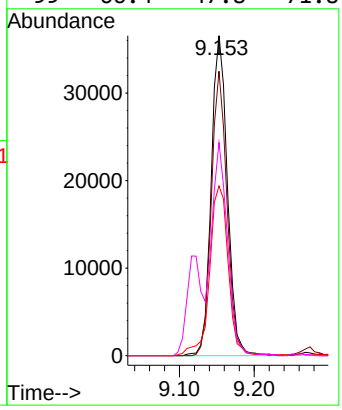




#55
1,1,2-Trichloroethane
Concen: 21.480 ug/l
RT: 9.153 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 97 Resp: 5488

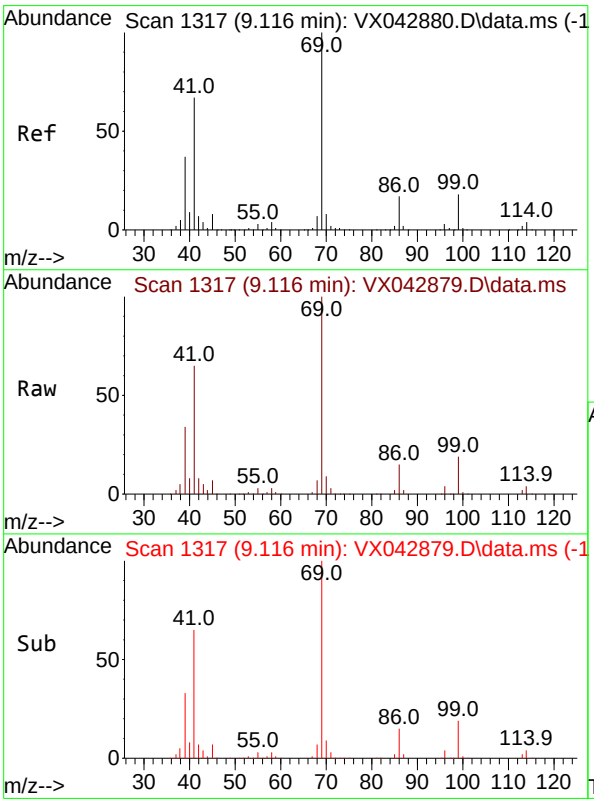
Ion	Ratio	Lower	Upper
97	100		
83	88.9	65.8	98.8
85	52.8	41.6	62.4
99	66.4	47.8	71.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

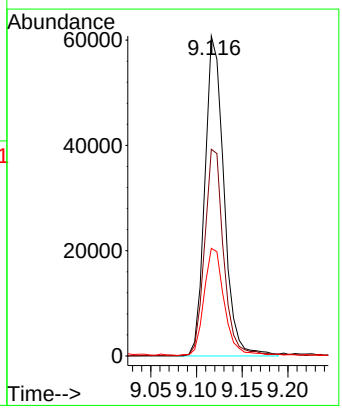
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

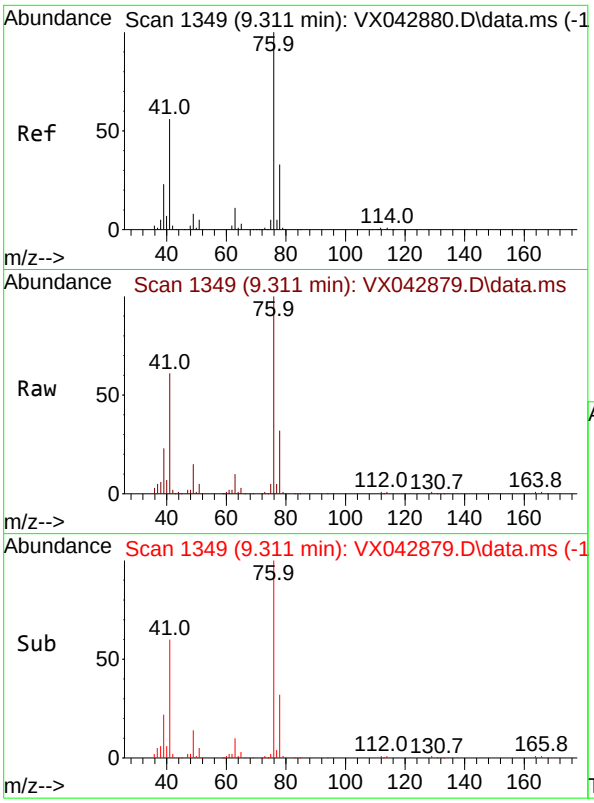


#56
Ethyl methacrylate
Concen: 21.384 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 69 Resp: 87928

Ion	Ratio	Lower	Upper
69	100		
41	64.6	56.8	85.2
39	35.9	32.0	48.0





#57
1,3-Dichloropropane
Concen: 21.652 ug/l
RT: 9.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

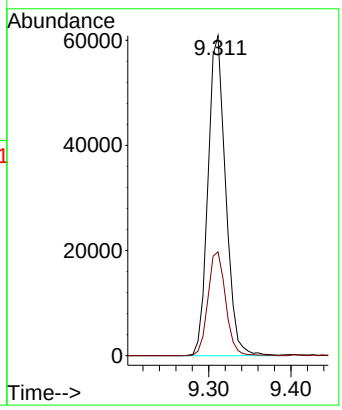
Tgt Ion: 76 Resp: 9063

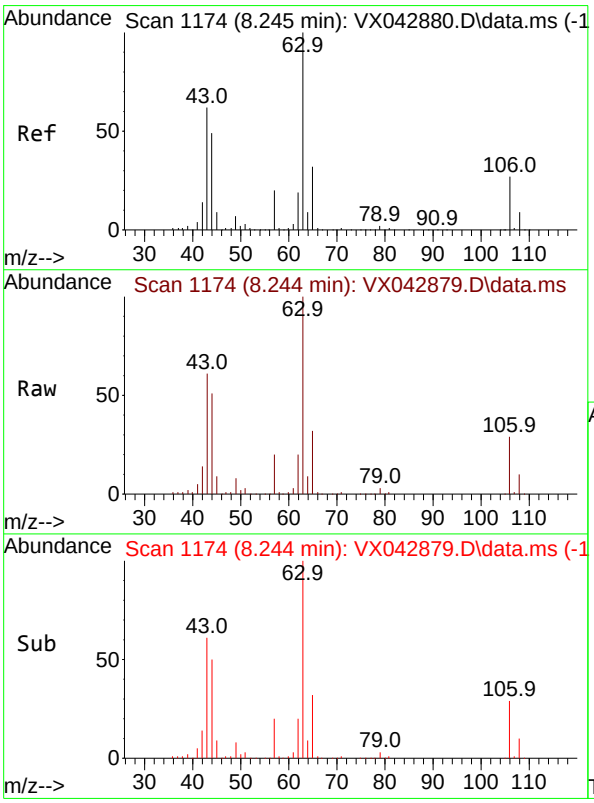
Ion	Ratio	Lower	Upper
76	100		
78	32.6	26.1	39.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

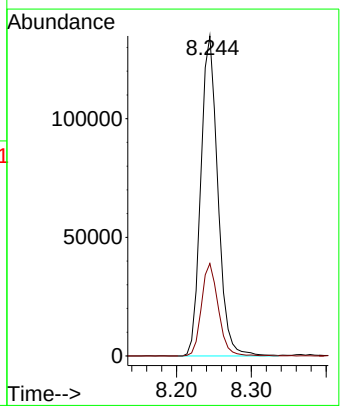


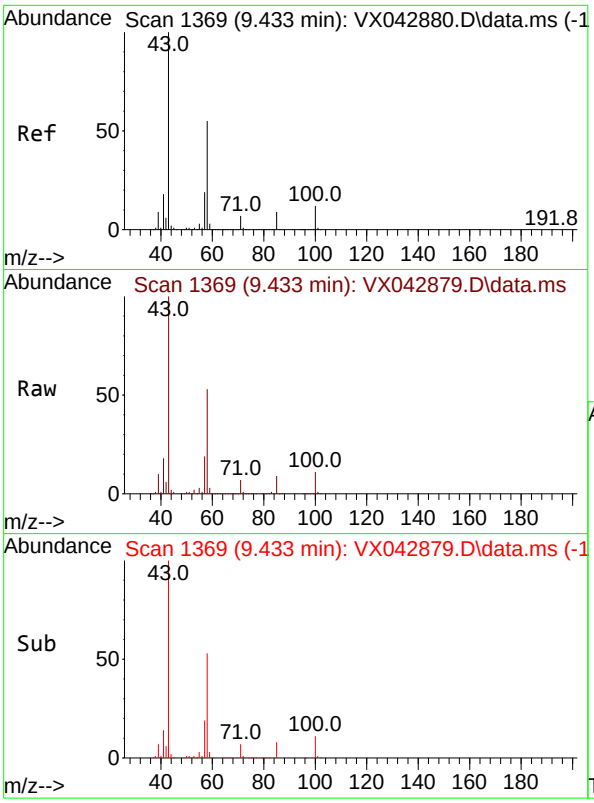


#58
2-Chloroethyl Vinyl ether
Concen: 110.168 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 63 Resp: 213507

Ion	Ratio	Lower	Upper
63	100		
106	28.5	22.5	33.7





#59
2-Hexanone
Concen: 109.063 ug/l
RT: 9.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

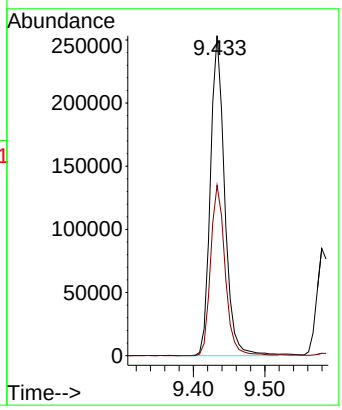
Tgt Ion: 43 Resp: 34973

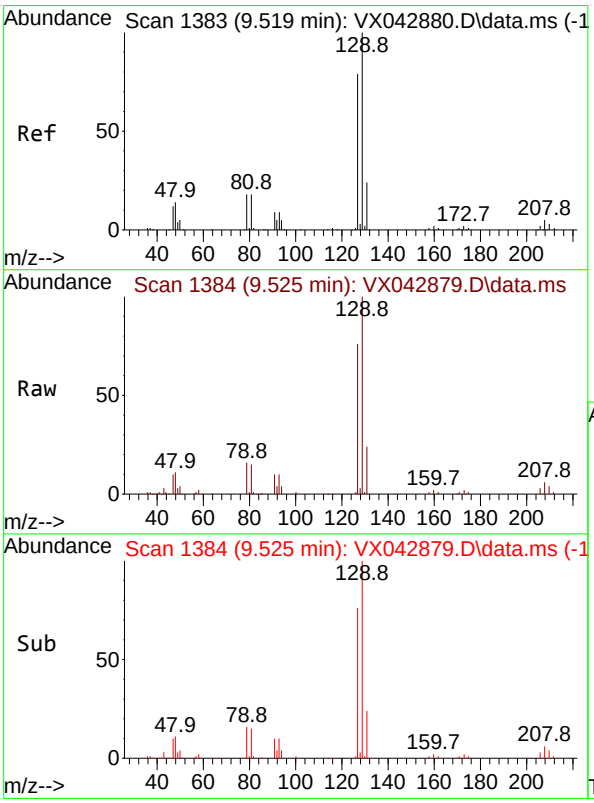
Ion	Ratio	Lower	Upper
43	100		
58	54.8	26.2	78.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

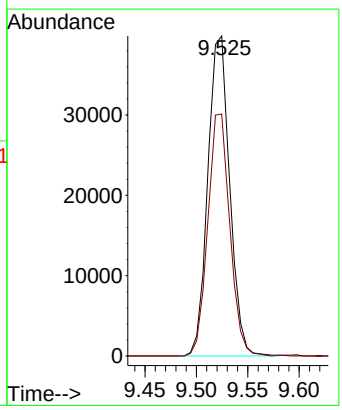


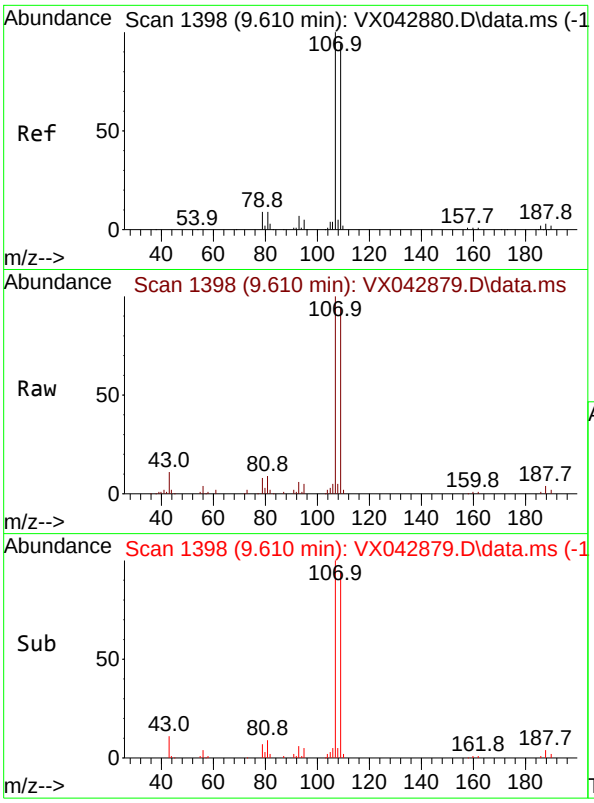


#60
Dibromochloromethane
Concen: 20.973 ug/l
RT: 9.525 min Scan# 1384
Delta R.T. 0.006 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion:129 Resp: 58873

Ion	Ratio	Lower	Upper
129	100		
127	76.1	38.8	116.4

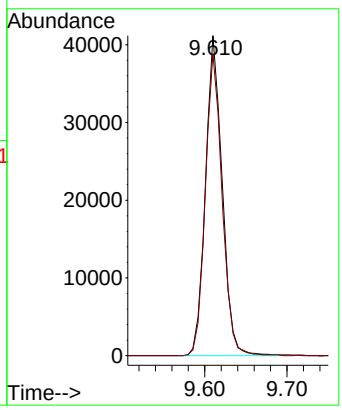




#61
1,2-Dibromoethane
Concen: 21.559 ug/l
RT: 9.610 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion:107 Resp: 5820

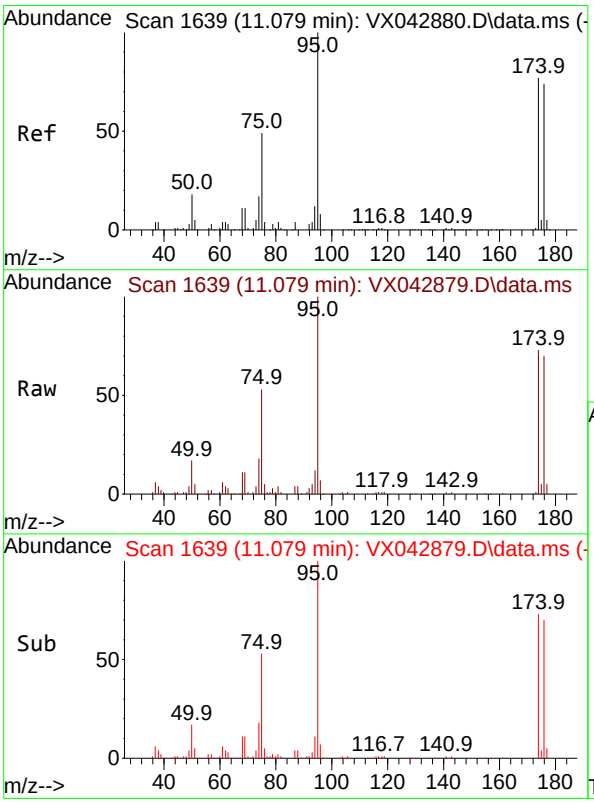
Ion	Ratio	Lower	Upper
107	100		
109	94.8	75.2	112.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

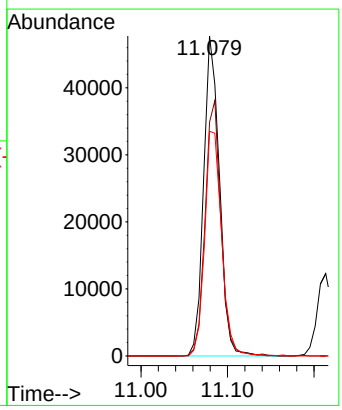
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

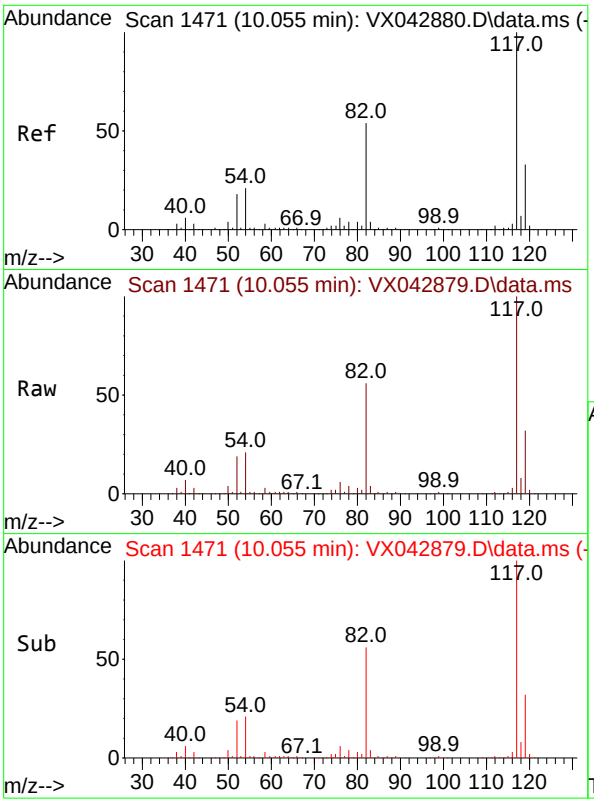


#62
4-Bromofluorobenzene
Concen: 19.246 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 95 Resp: 60462

Ion	Ratio	Lower	Upper
95	100		
174	80.4	0.0	135.6
176	75.5	0.0	131.0

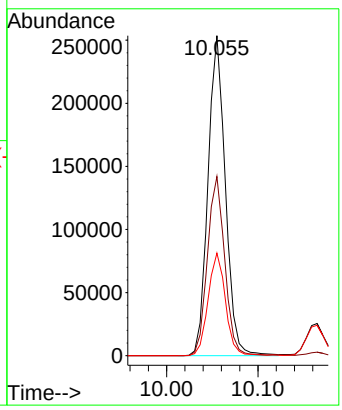




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion:117 Resp: 33394

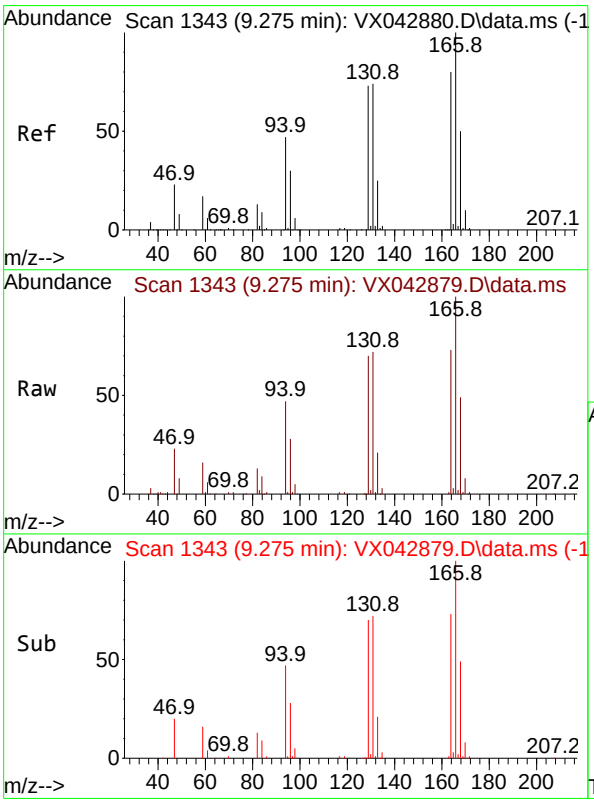
Ion	Ratio	Lower	Upper
117	100		
82	56.0	46.2	69.4
119	32.1	25.5	38.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

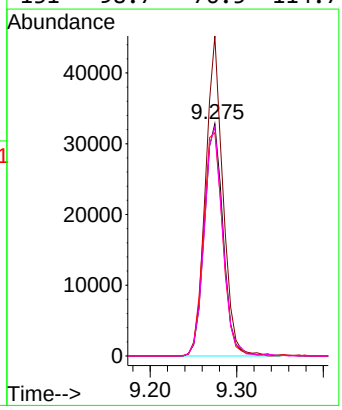
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

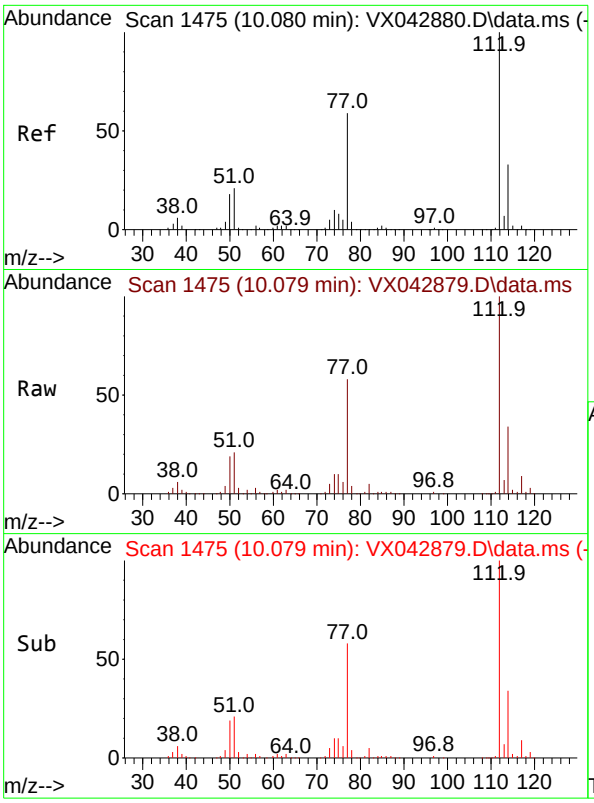


#64
Tetrachloroethene
Concen: 21.150 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion:164 Resp: 49110

Ion	Ratio	Lower	Upper
164	100		
166	137.9	102.7	154.1
129	96.2	80.4	120.6
131	98.7	76.5	114.7





#65
Chlorobenzene
Concen: 20.956 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

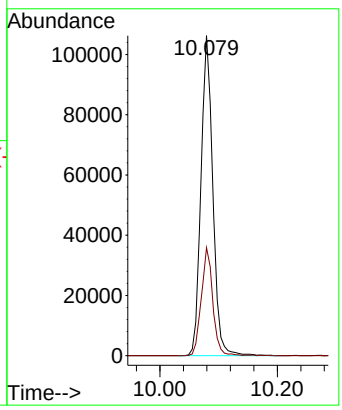
Tgt Ion:112 Resp: 14850

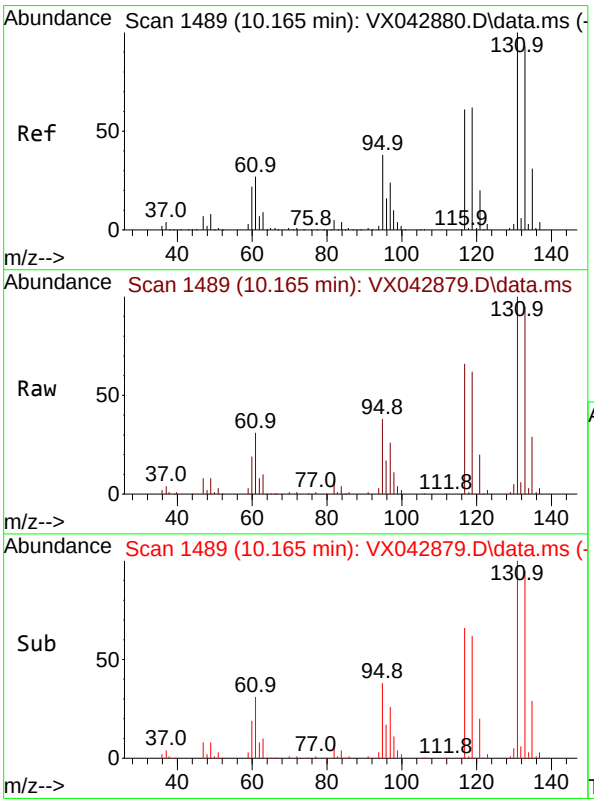
Ion	Ratio	Lower	Upper
112	100		
114	33.8	25.7	38.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

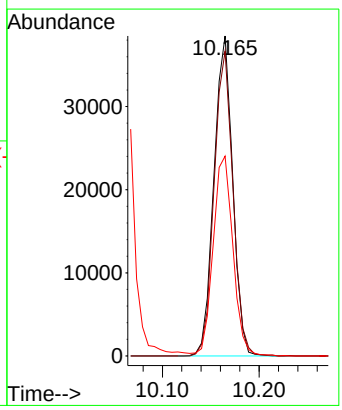


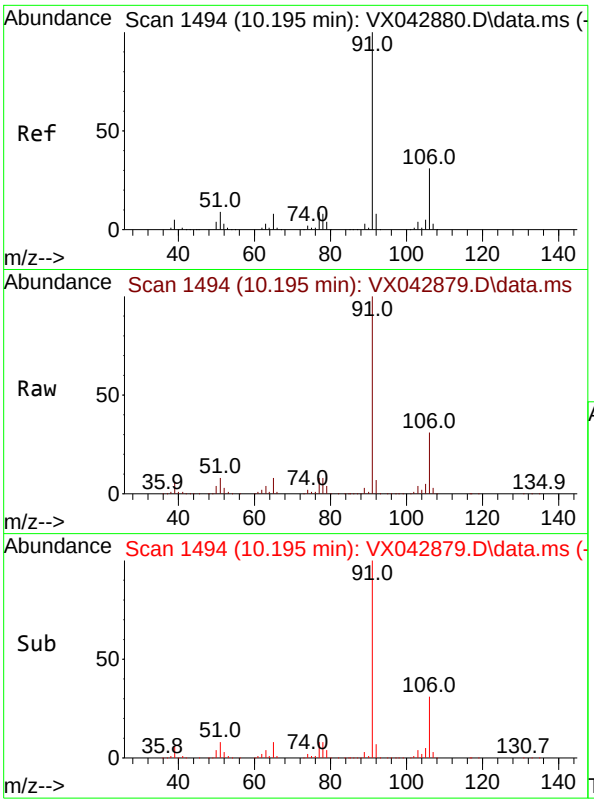


#66
1,1,1,2-Tetrachloroethane
Concen: 21.159 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion:131 Resp: 51702

Ion	Ratio	Lower	Upper
131	100		
133	95.6	47.1	141.4
119	66.1	32.2	96.6

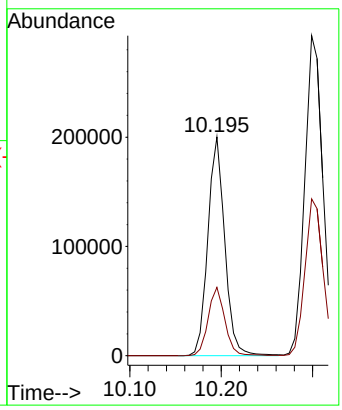




#67
Ethyl Benzene
Concen: 21.530 ug/l
RT: 10.195 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 91 Resp: 25664

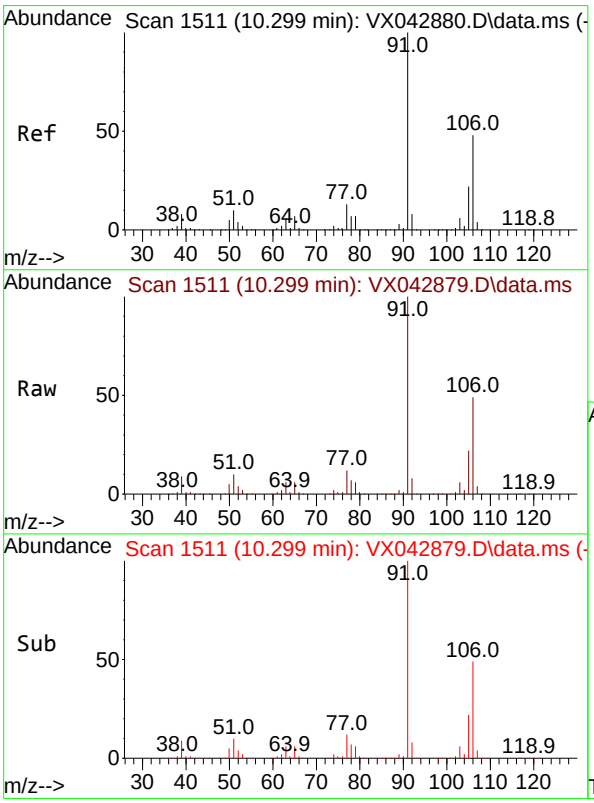
Ion	Ratio	Lower	Upper
91	100		
106	31.2	24.9	37.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

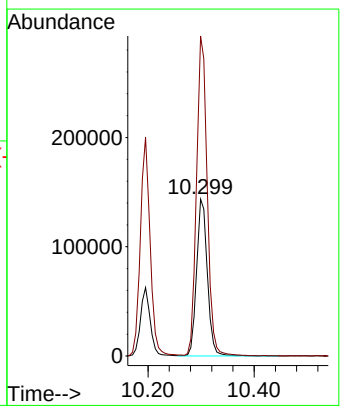
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

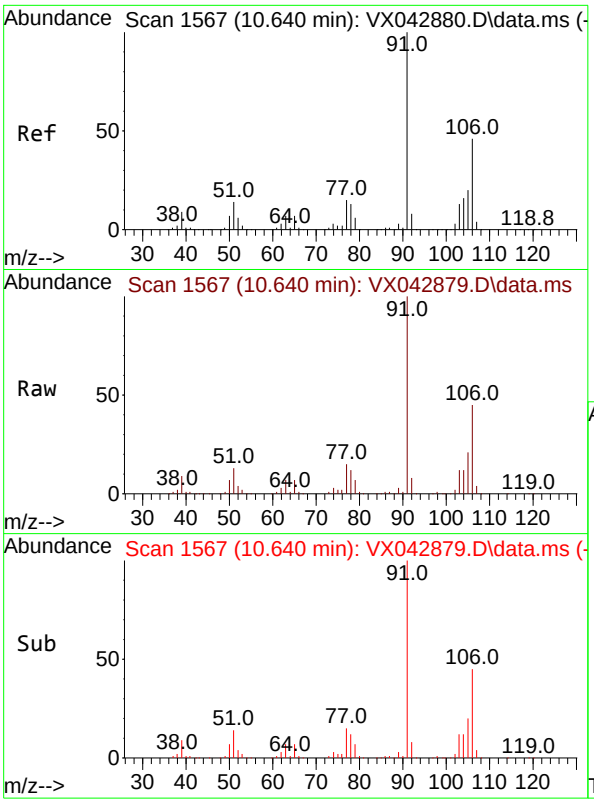


#68
m/p-Xylenes
Concen: 44.278 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion:106 Resp: 201489

Ion	Ratio	Lower	Upper
106	100		
91	202.4	165.5	248.3





#69
o-Xylene
Concen: 21.296 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

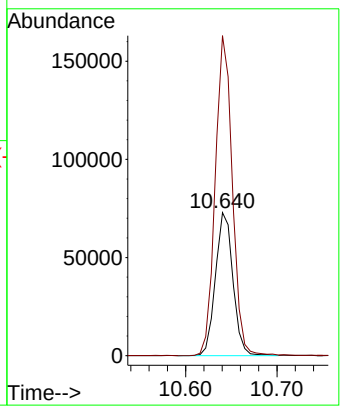
Tgt Ion:106 Resp: 9707

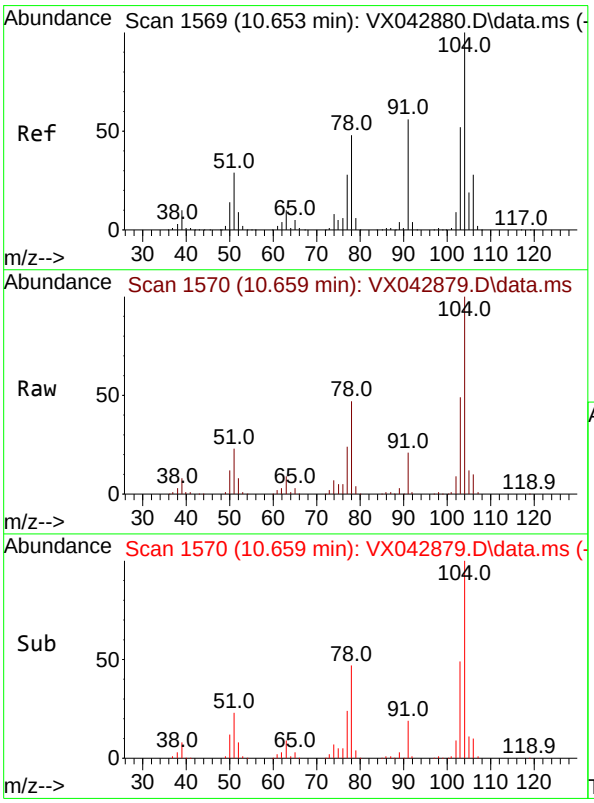
Ion	Ratio	Lower	Upper
106	100		
91	219.1	108.9	326.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

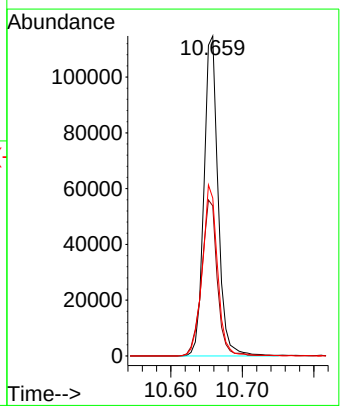


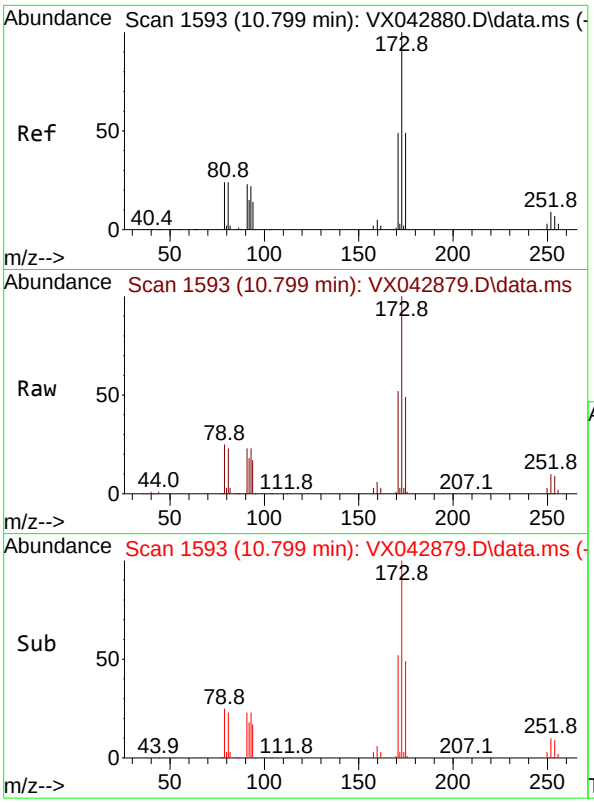


#70
Styrene
Concen: 21.524 ug/l
RT: 10.659 min Scan# 1570
Delta R.T. 0.006 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion:104 Resp: 157781

Ion	Ratio	Lower	Upper
104	100		
78	53.9	43.6	65.4
103	57.5	43.6	65.4

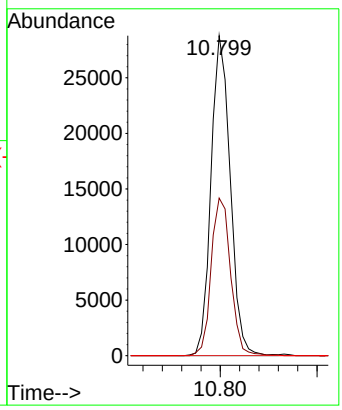




#71
Bromoform
Concen: 20.104 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion:173 Resp: 3962

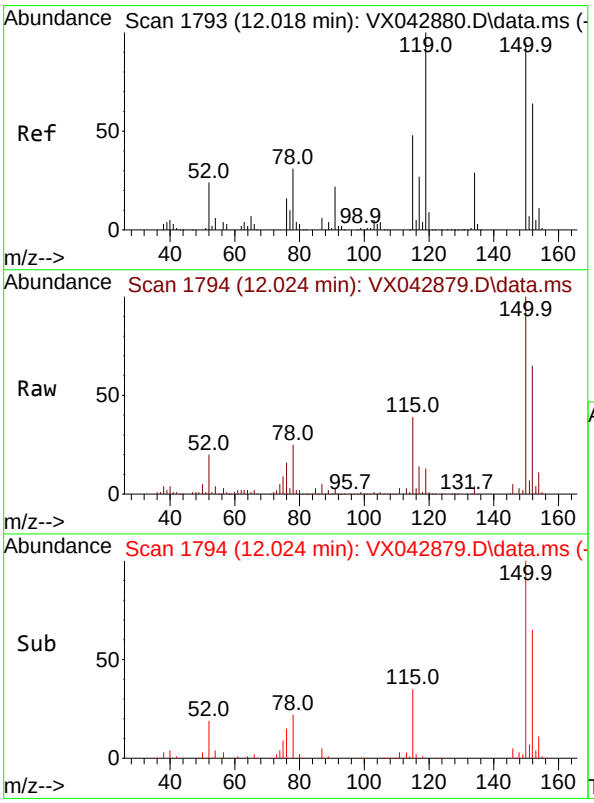
Ion	Ratio	Lower	Upper
173	100		
175	49.7	24.1	72.4
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

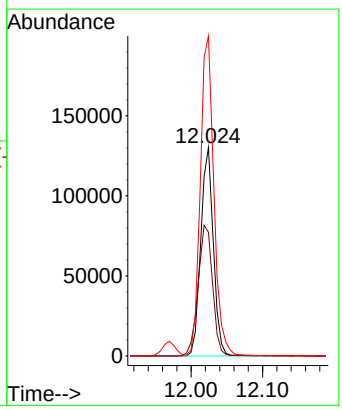
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

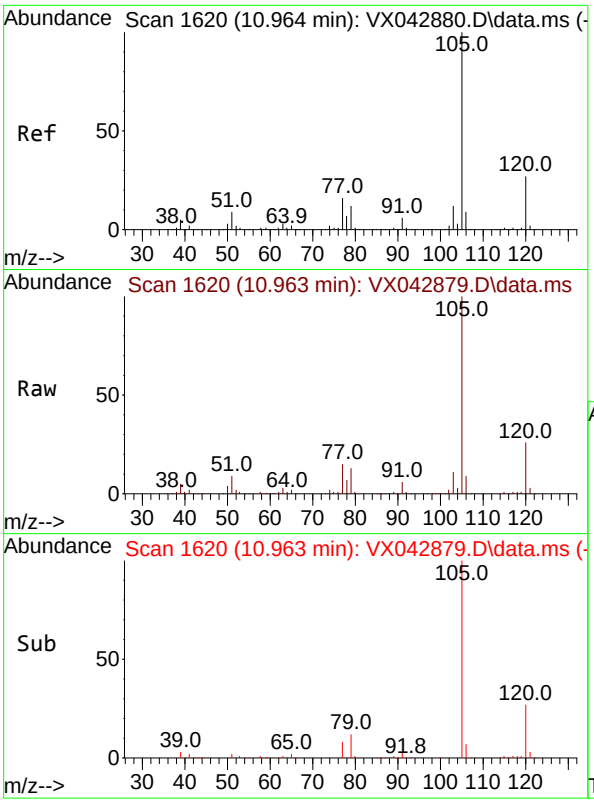


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion:152 Resp: 159287

Ion	Ratio	Lower	Upper
152	100		
115	71.9	43.3	129.9
150	165.1	0.0	345.0

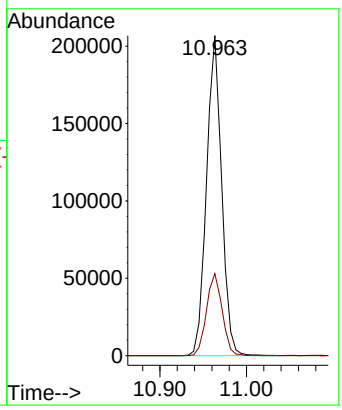




#73
Isopropylbenzene
Concen: 21.755 ug/l
RT: 10.963 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion:105 Resp: 25054

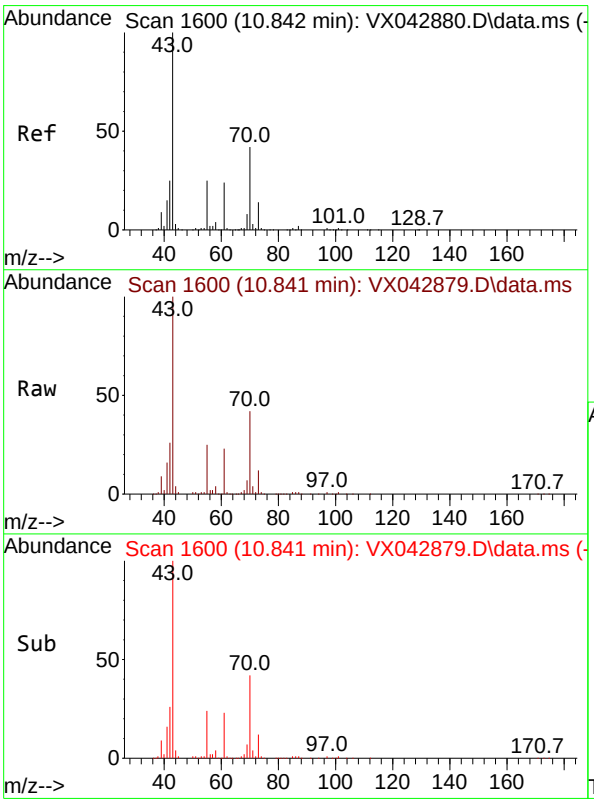
Ion	Ratio	Lower	Upper
105	100		
120	26.6	12.9	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

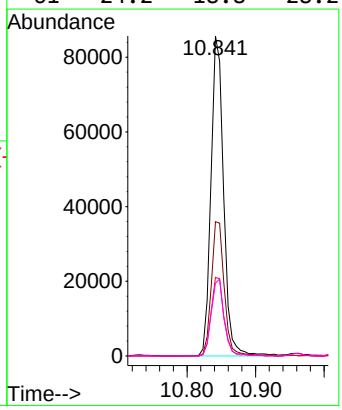
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

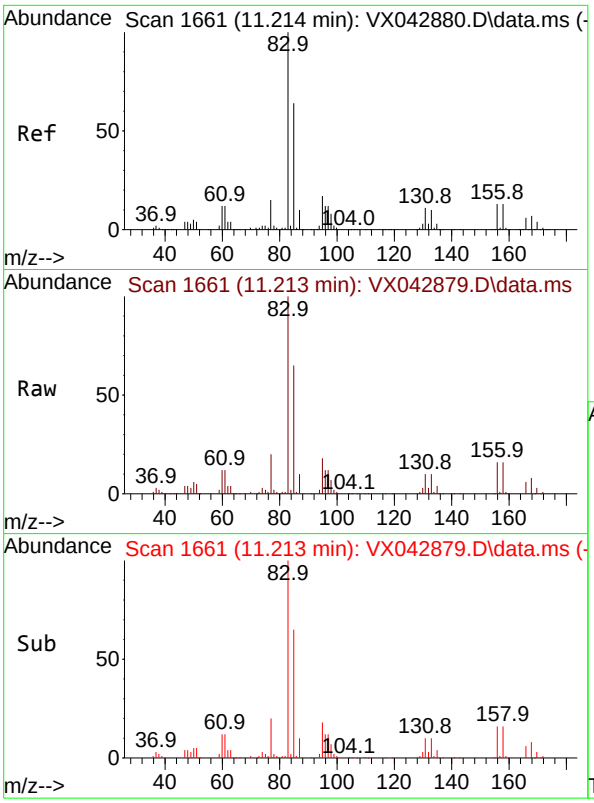


#74
N-amyl acetate
Concen: 21.239 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 43 Resp: 110054

Ion	Ratio	Lower	Upper
43	100		
70	42.9	32.9	49.3
55	25.4	19.3	28.9
61	24.2	18.8	28.2





#75
1,1,2,2-Tetrachloroethane
Concen: 21.158 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

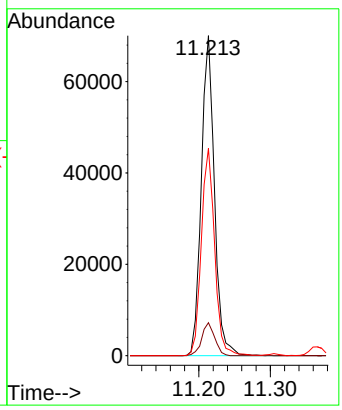
Tgt Ion: 83 Resp: 8926

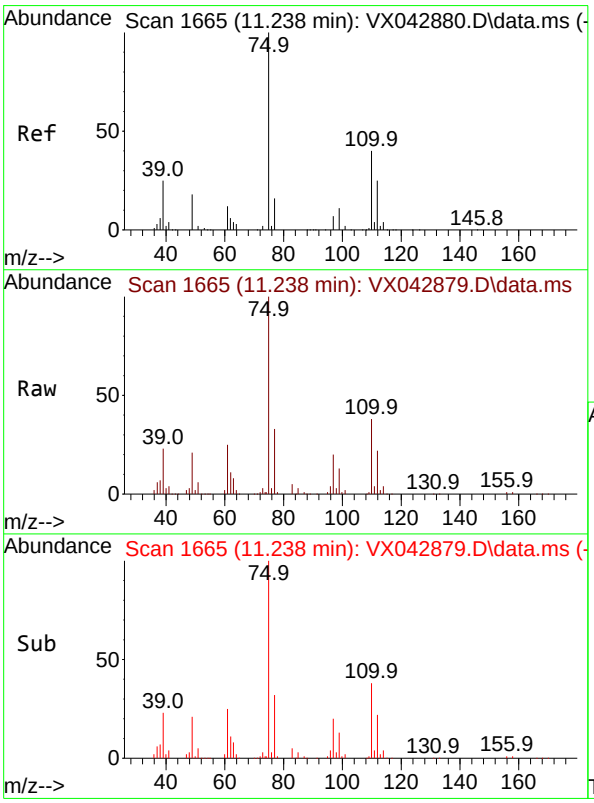
Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.3	15.8
85	65.7	32.0	96.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

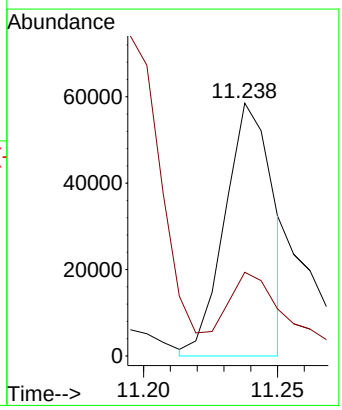


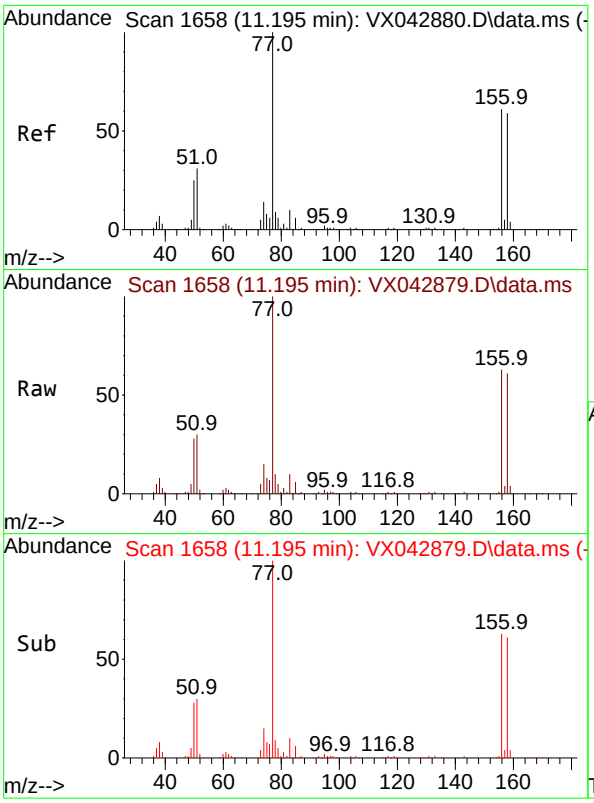


#76
1,2,3-Trichloropropane
Concen: 20.821 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 75 Resp: 72749

Ion	Ratio	Lower	Upper
75	100		
77	42.7	19.1	57.5





#77
Bromobenzene
Concen: 21.346 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

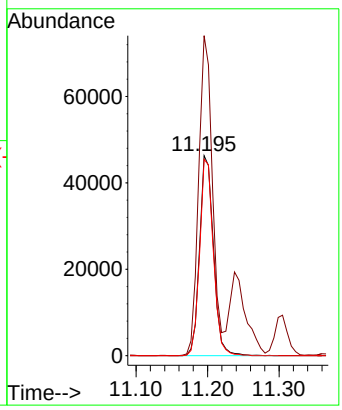
Tgt Ion:156 Resp: 6253

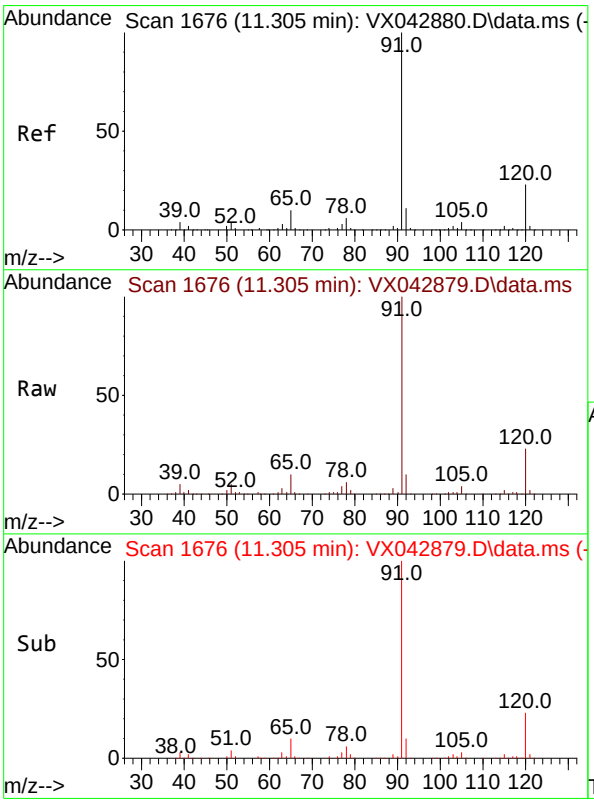
Ion	Ratio	Lower	Upper
156	100		
77	157.3	88.4	265.3
158	96.7	48.0	144.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

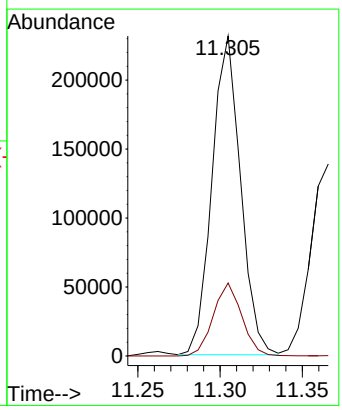


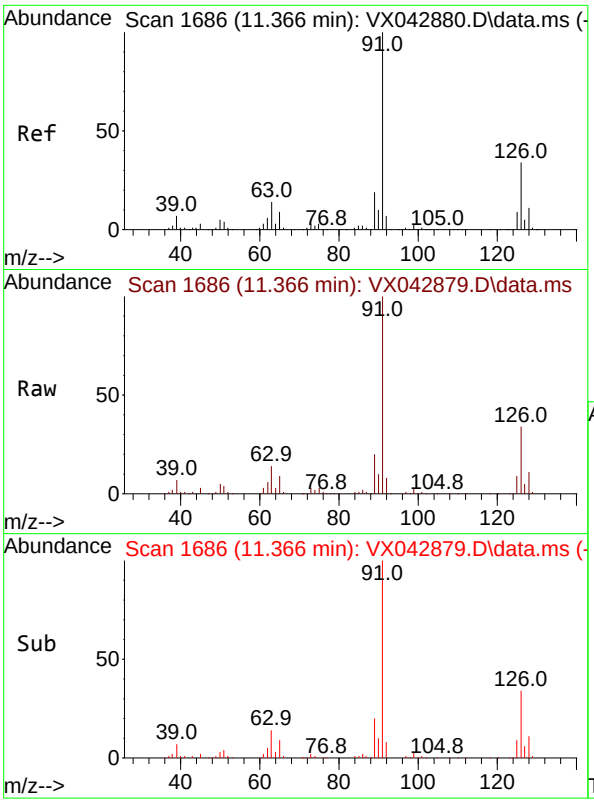


#78
n-propylbenzene
Concen: 21.806 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 91 Resp: 278948

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.5	34.4





#79
2-Chlorotoluene
Concen: 21.524 ug/l
RT: 11.366 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

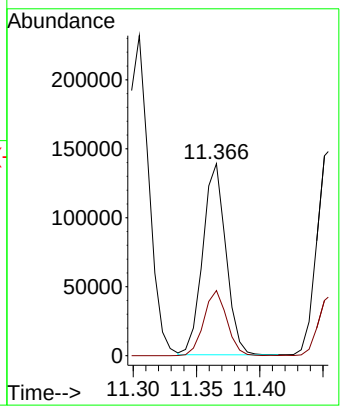
Tgt Ion: 91 Resp: 17647

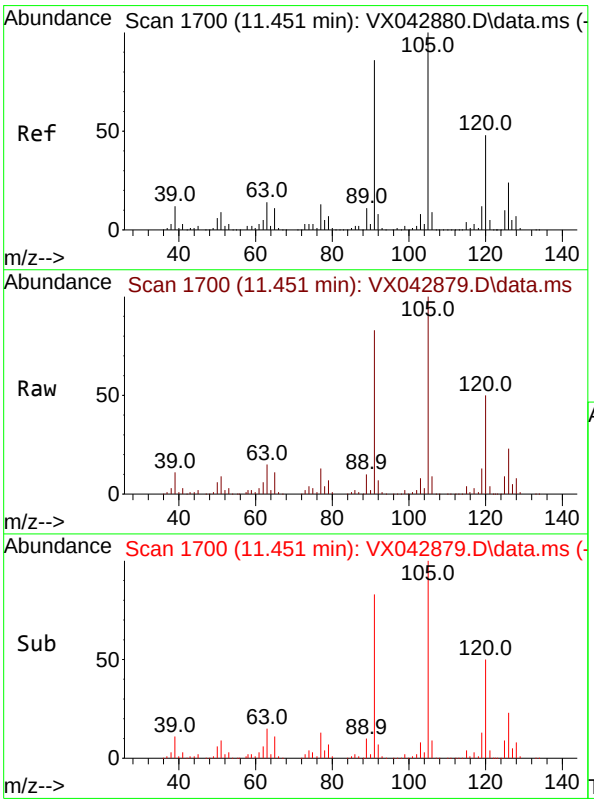
Ion	Ratio	Lower	Upper
91	100		
126	34.0	16.3	48.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

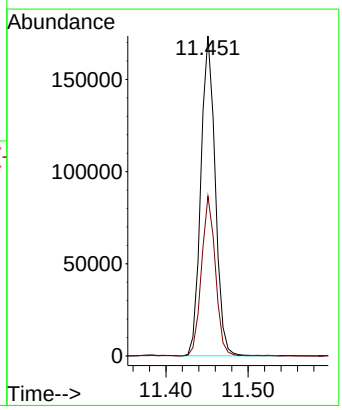


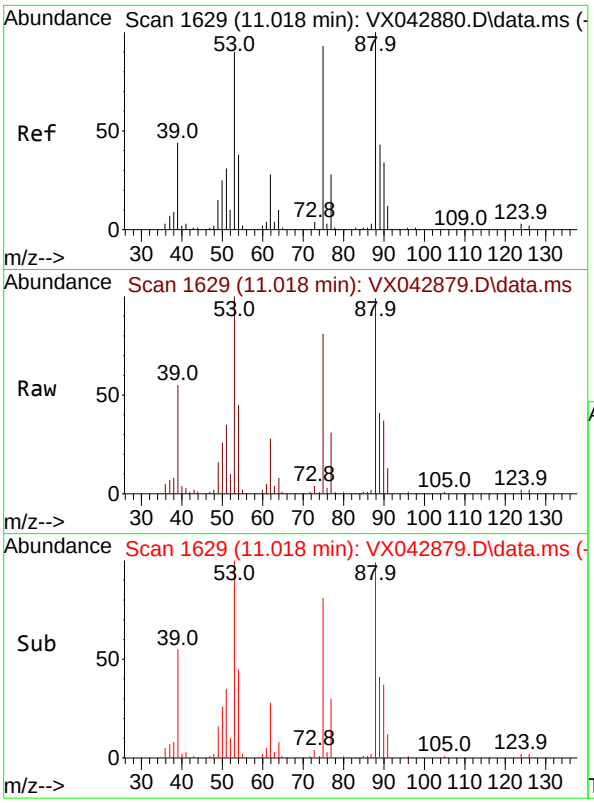


#80
1,3,5-Trimethylbenzene
Concen: 22.057 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion:105 Resp: 210332

Ion	Ratio	Lower	Upper
105	100		
120	48.6	24.1	72.3





#81
trans-1,4-Dichloro-2-butene
Concen: 19.683 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

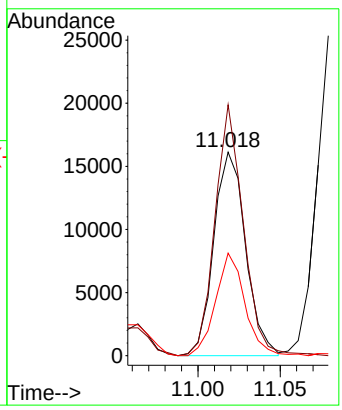
Tgt Ion: 75 Resp: 2168

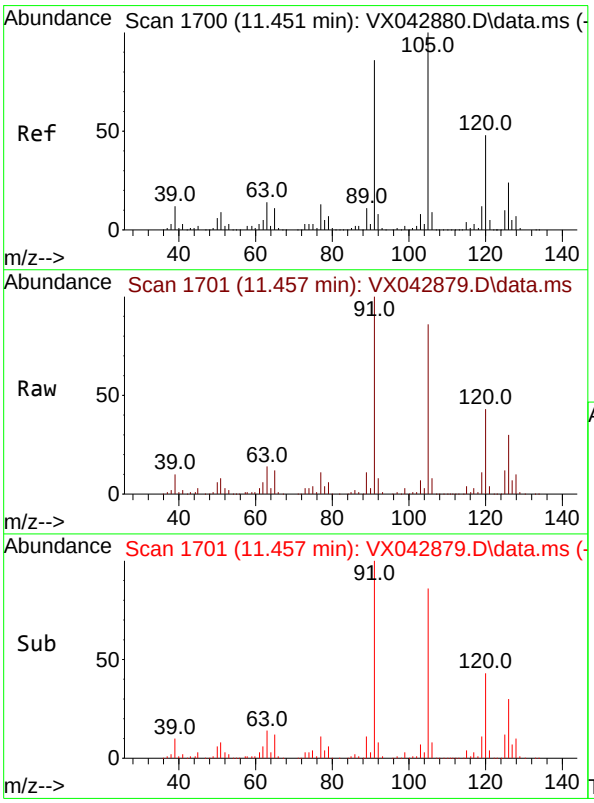
Ion	Ratio	Lower	Upper
75	100		
53	109.8	90.5	135.7
89	46.5	36.9	55.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

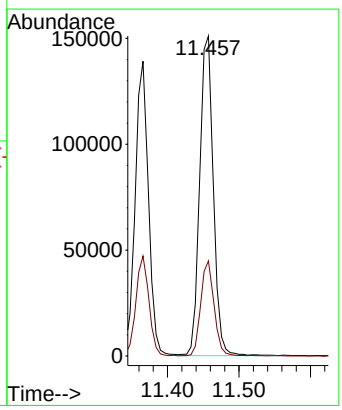


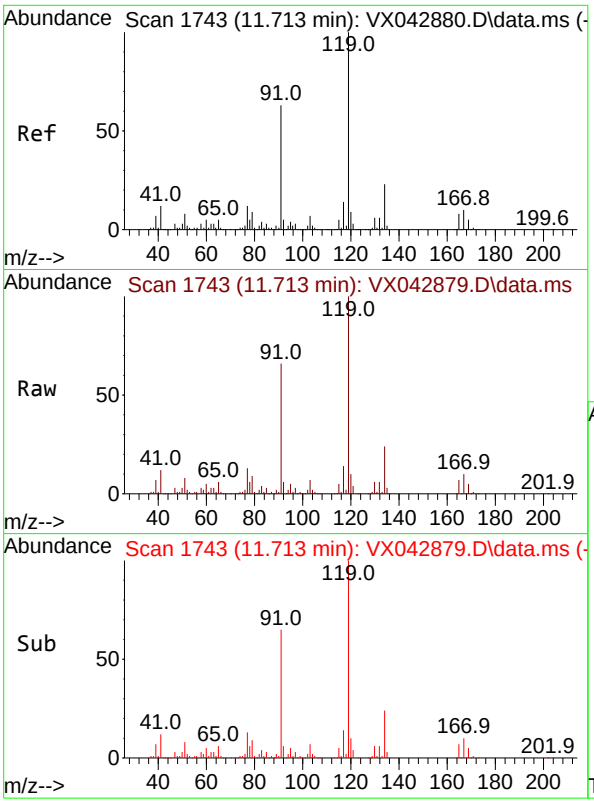


#82
4-Chlorotoluene
Concen: 21.666 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 91 Resp: 199667

Ion	Ratio	Lower	Upper
91	100		
126	28.9	14.2	42.6

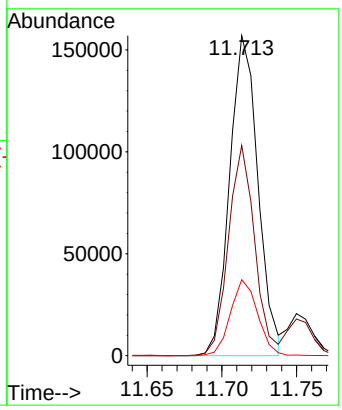




#83
tert-Butylbenzene
Concen: 21.116 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion:119 Resp: 20692

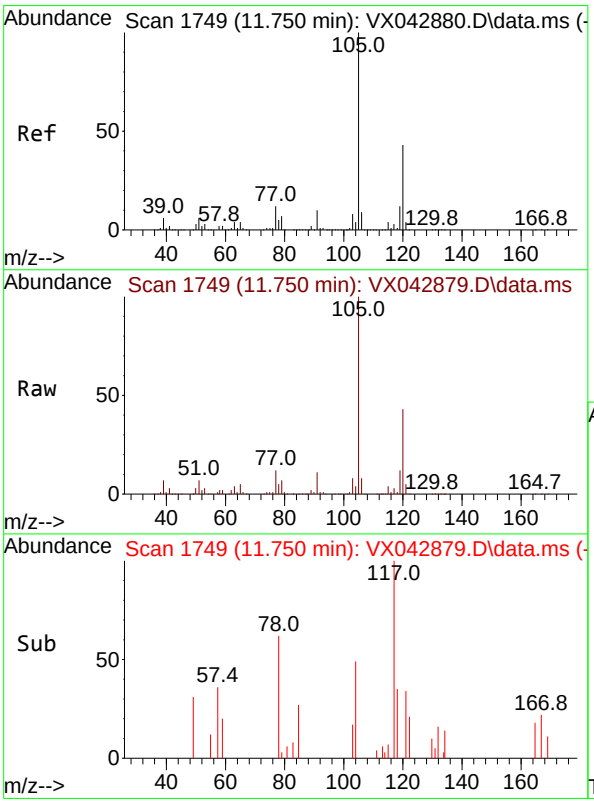
Ion	Ratio	Lower	Upper
119	100		
91	61.0	31.2	93.6
134	22.9	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

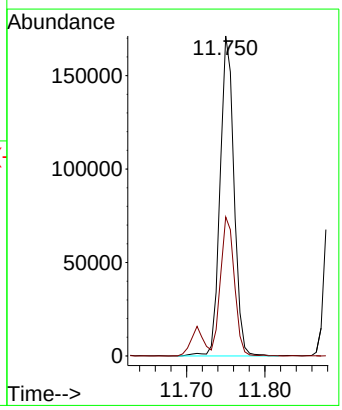
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

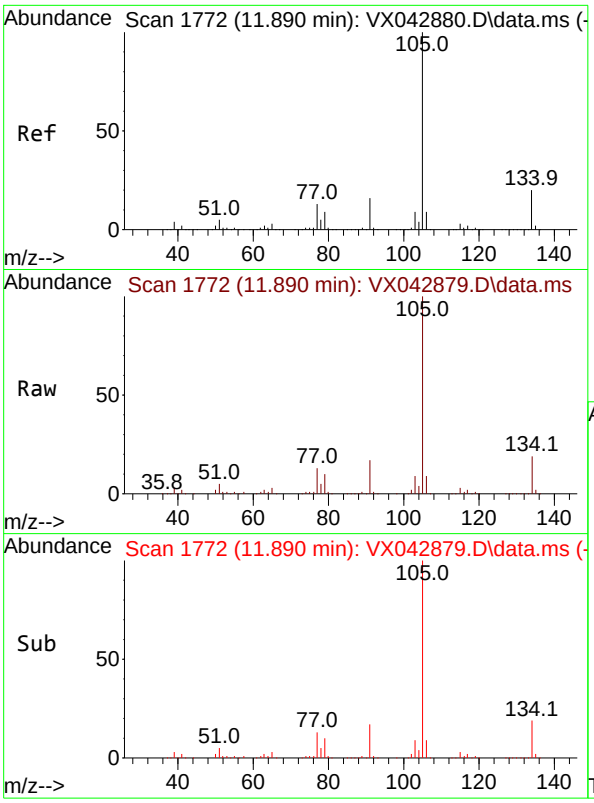


#84
1,2,4-Trimethylbenzene
Concen: 22.094 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion:105 Resp: 212095

Ion	Ratio	Lower	Upper
105	100		
120	43.4	21.2	63.6





#85
sec-Butylbenzene
Concen: 22.134 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

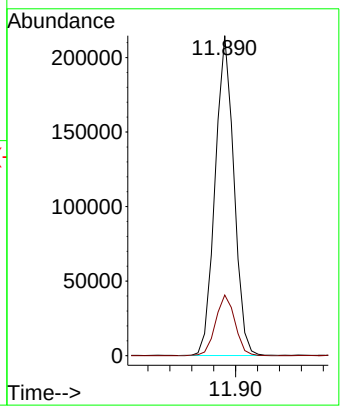
Tgt Ion:105 Resp: 25541

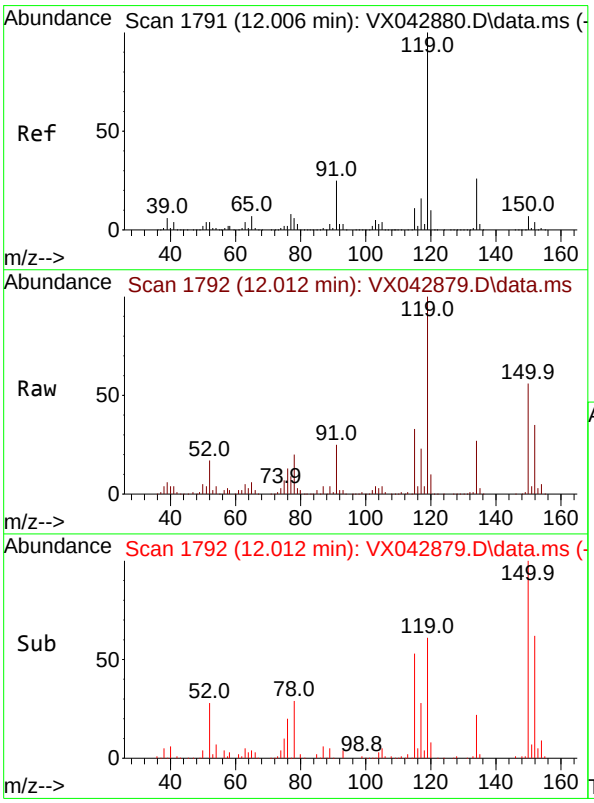
Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

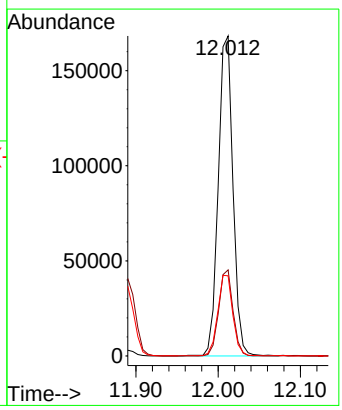


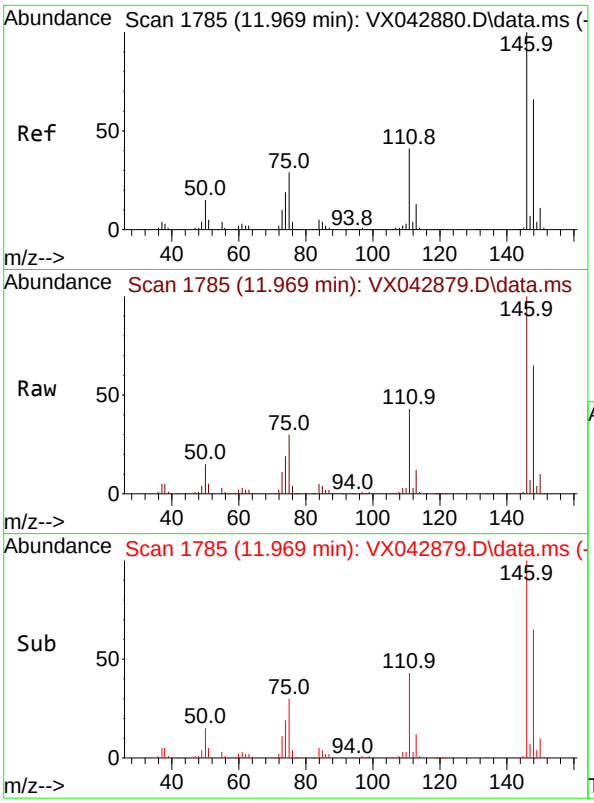


#86
p-Isopropyltoluene
Concen: 21.808 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion:119 Resp: 209073

Ion	Ratio	Lower	Upper
119	100		
134	26.2	12.8	38.3
91	25.7	13.1	39.3

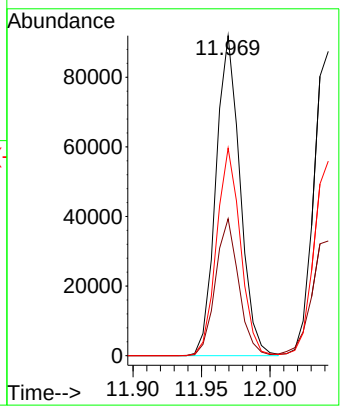




#87
1,3-Dichlorobenzene
Concen: 21.197 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion:146 Resp: 11238

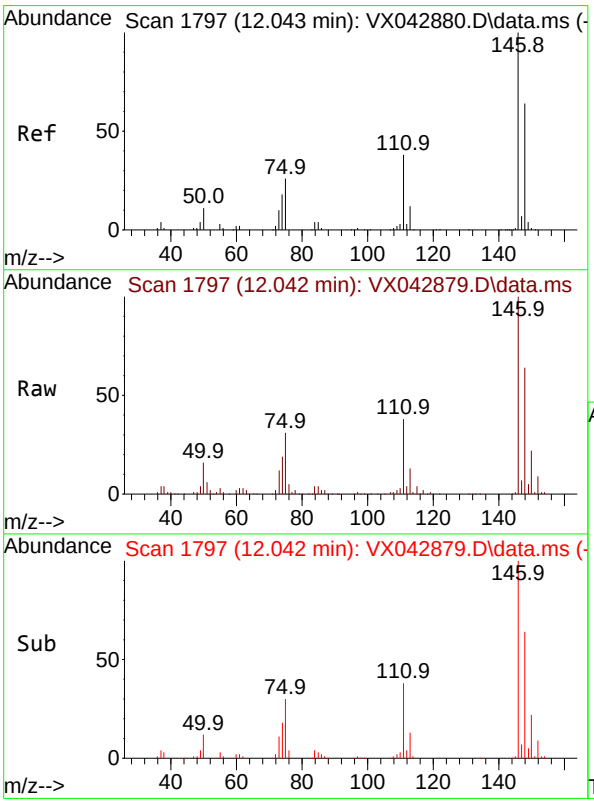
Ion	Ratio	Lower	Upper
146	100		
111	41.3	22.1	66.1
148	64.3	31.8	95.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

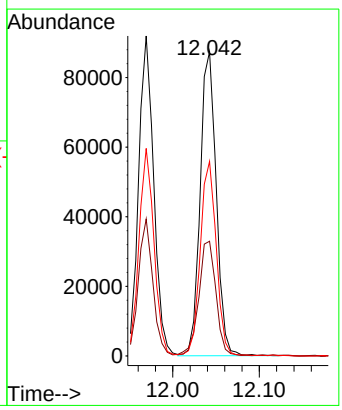
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

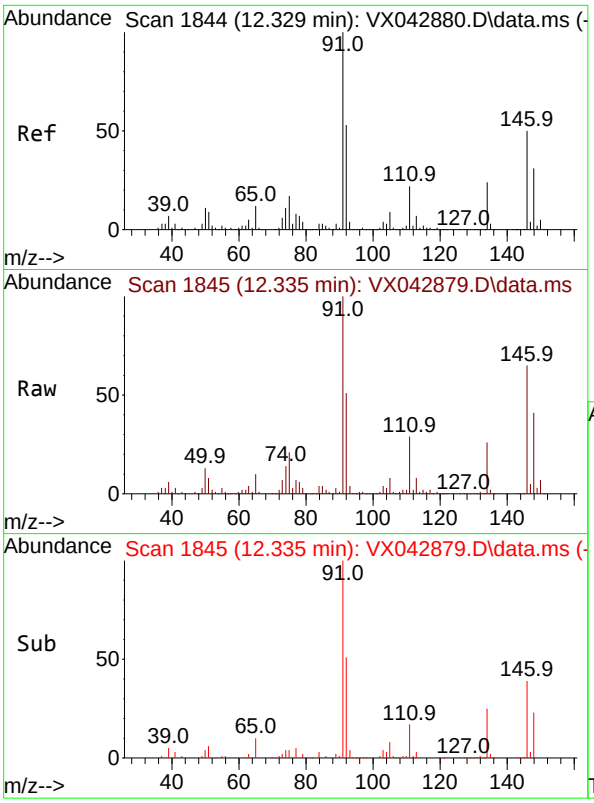


#88
1,4-Dichlorobenzene
Concen: 20.743 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion:146 Resp: 112726

Ion	Ratio	Lower	Upper
146	100		
111	40.4	21.3	63.7
148	63.6	31.8	95.4

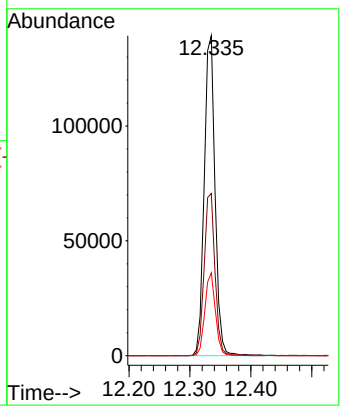




#89
n-Butylbenzene
Concen: 20.885 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 91 Resp: 17273

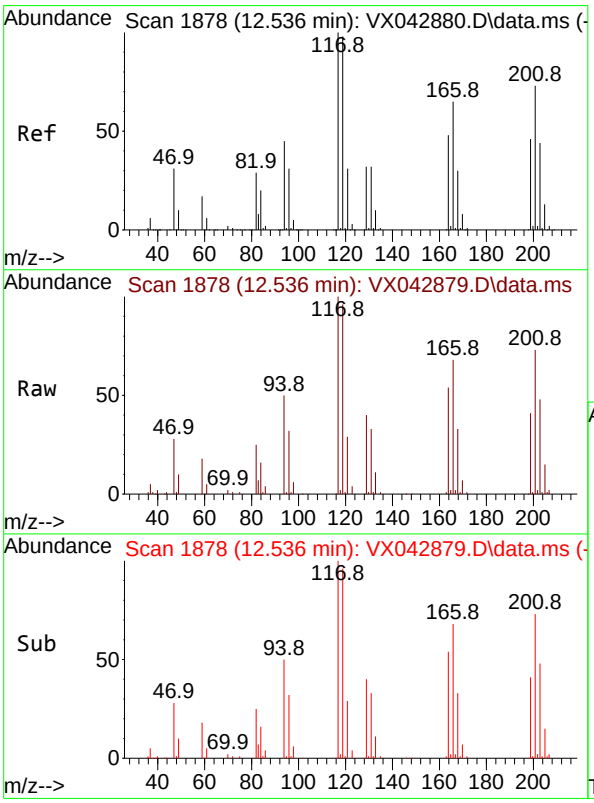
Ion	Ratio	Lower	Upper
91	100		
92	50.9	27.4	82.0
134	25.3	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

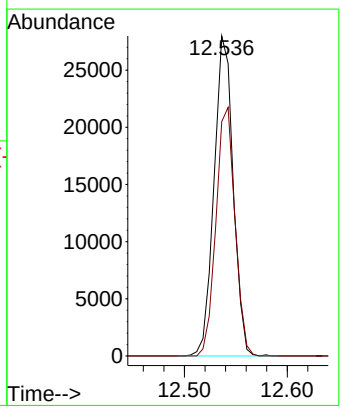
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

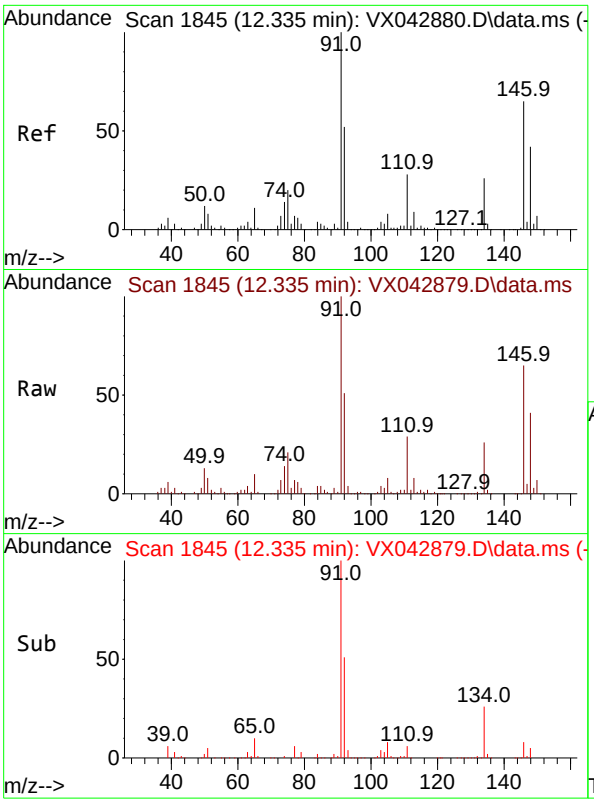


#90
Hexachloroethane
Concen: 20.593 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion:117 Resp: 36114

Ion	Ratio	Lower	Upper
117	100		
201	77.3	32.9	98.6

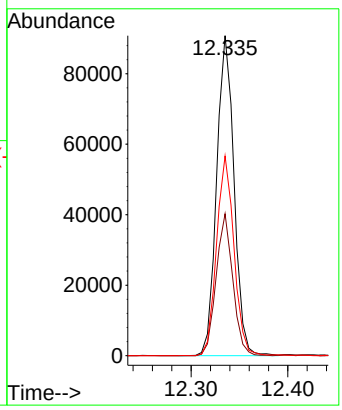




#91
1,2-Dichlorobenzene
Concen: 21.304 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion:146 Resp: 11310

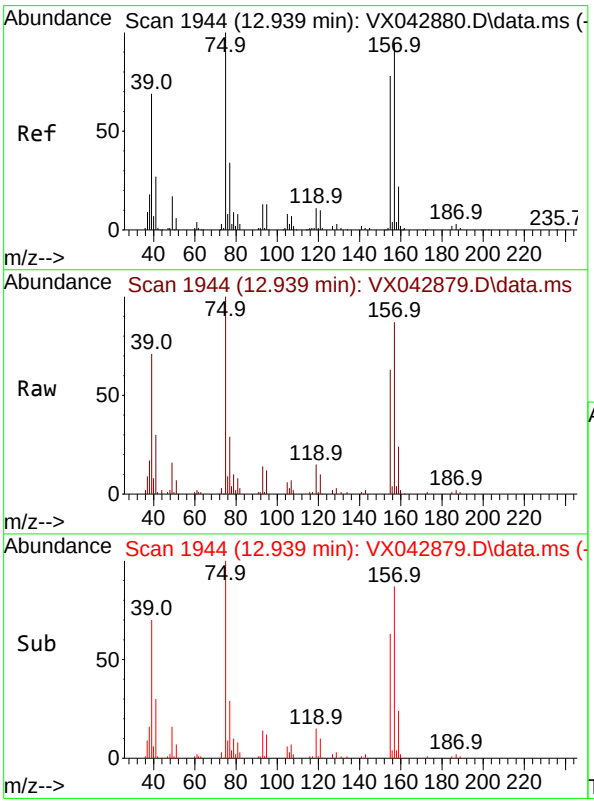
Ion	Ratio	Lower	Upper
146	100		
111	42.6	22.4	67.0
148	62.9	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

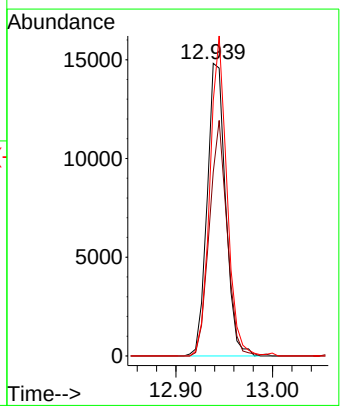
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

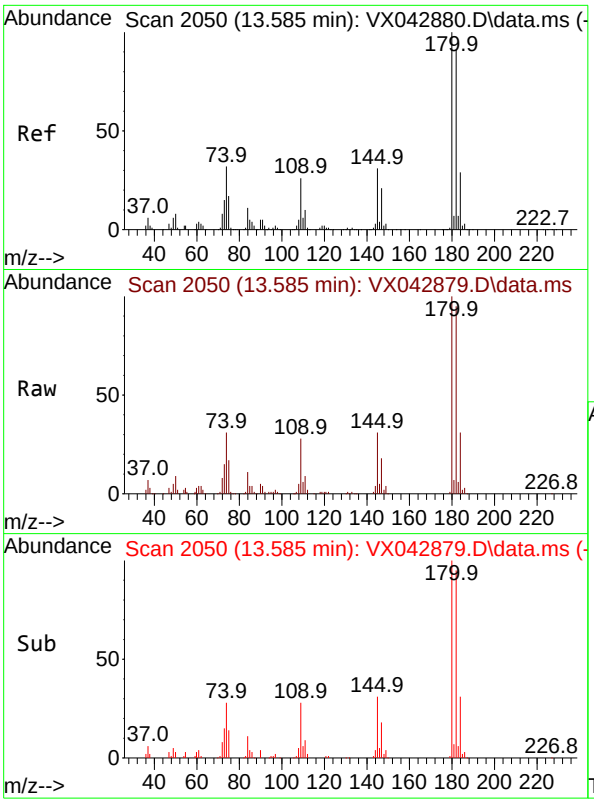


#92
1,2-Dibromo-3-Chloropropane
Concen: 21.245 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion: 75 Resp: 19694

Ion	Ratio	Lower	Upper
75	100		
155	76.5	36.1	108.5
157	101.3	44.9	134.7

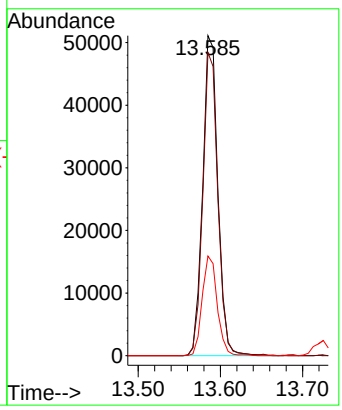




#93
1,2,4-Trichlorobenzene
Concen: 20.213 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion:180 Resp: 6545

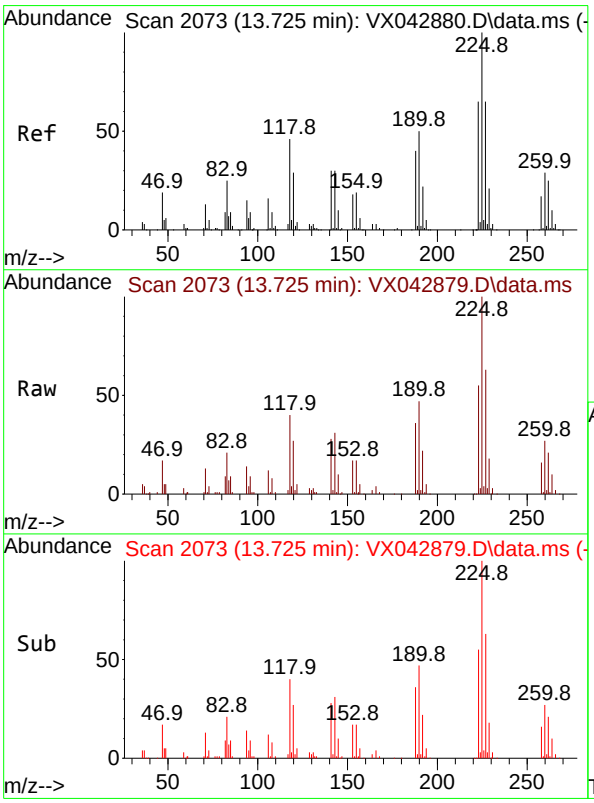
Ion	Ratio	Lower	Upper
180	100		
182	93.9	48.3	144.8
145	31.0	18.0	54.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

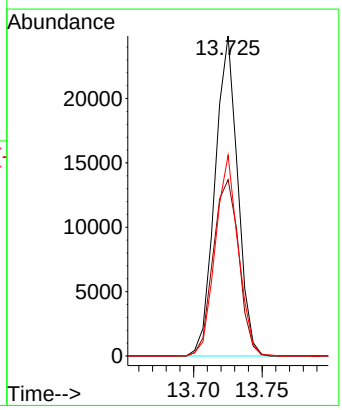
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

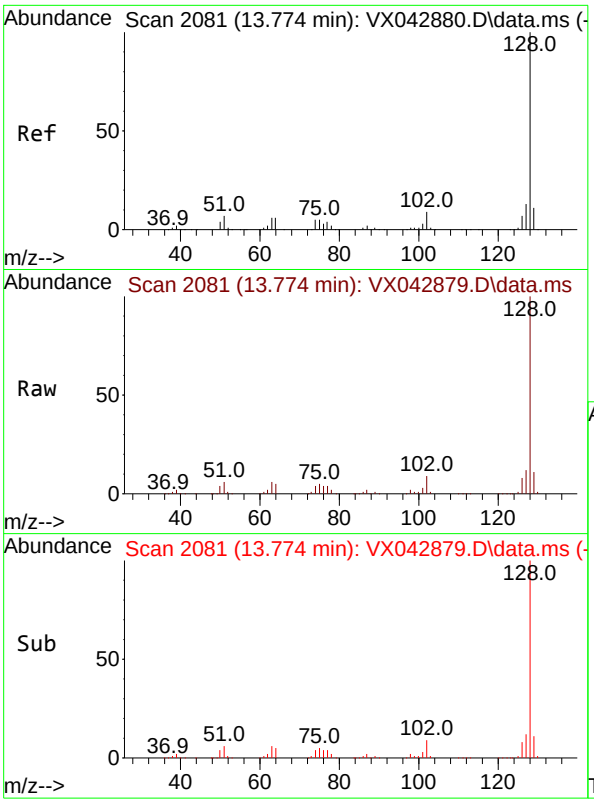


#94
Hexachlorobutadiene
Concen: 20.820 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion:225 Resp: 28595

Ion	Ratio	Lower	Upper
225	100		
223	62.1	31.1	93.2
227	63.2	32.5	97.5

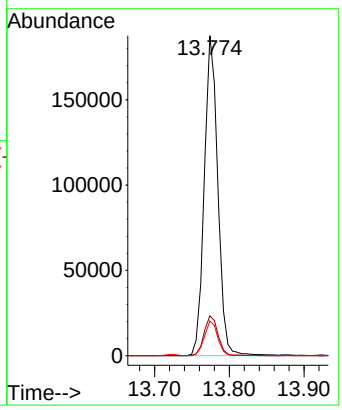




#95
Naphthalene
Concen: 21.061 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion:128 Resp: 23600

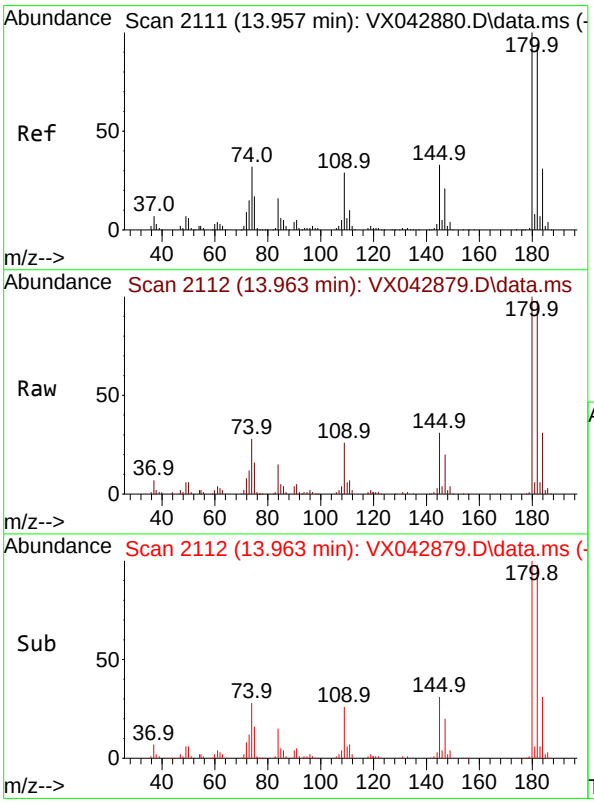
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.3	15.5
129	10.8	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

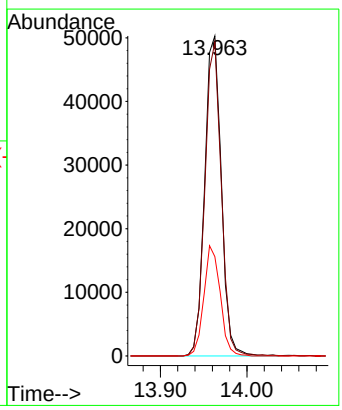
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024



#96
1,2,3-Trichlorobenzene
Concen: 20.546 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX042879.D
Acq: 06 Aug 2024 19:05

Tgt Ion:180 Resp: 66975

Ion	Ratio	Lower	Upper
180	100		
182	96.5	46.9	140.6
145	33.9	17.8	53.5



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042880.D
Acq On : 06 Aug 2024 19:28
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

Quant Time: Aug 07 02:38:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:27:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	254784	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	424451	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	376326	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	178191	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	169926	48.582	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	97.160%		
35) Dibromofluoromethane	5.385	113	137025	49.374	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.740%		
50) Toluene-d8	8.647	98	482026	48.925	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	97.860%		
62) 4-Bromofluorobenzene	11.079	95	168890	47.704	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	95.400%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	140634	51.209	ug/l	98
3) Chloromethane	1.301	50	140465	46.943	ug/l	97
4) Vinyl Chloride	1.374	62	140494	49.486	ug/l	99
5) Bromomethane	1.593	94	80620	46.921	ug/l	100
6) Chloroethane	1.660	64	81728	50.531	ug/l	95
7) Trichlorofluoromethane	1.868	101	225921	51.168	ug/l	98
8) Diethyl Ether	2.136	74	78696	48.458	ug/l	91
9) 1,1,2-Trichlorotrifluo...	2.313	101	135781	48.913	ug/l	96
10) Methyl Iodide	2.441	142	146530	51.049	ug/l	96
11) Tert butyl alcohol	2.995	59	187226	269.115	ug/l #	93
12) 1,1-Dichloroethene	2.307	96	136392	48.568	ug/l	87
13) Acrolein	2.240	56	170757	249.005	ug/l	100
14) Allyl chloride	2.660	41	206197	48.593	ug/l	93
15) Acrylonitrile	3.069	53	435045	245.001	ug/l	98
16) Acetone	2.392	43	358706	236.445	ug/l	94
17) Carbon Disulfide	2.502	76	330466	48.357	ug/l	100
18) Methyl Acetate	2.709	43	224558	46.677	ug/l	99
19) Methyl tert-butyl Ether	3.123	73	467350	49.444	ug/l	100
20) Methylene Chloride	2.788	84	151800	48.325	ug/l	92
21) trans-1,2-Dichloroethene	3.087	96	140692	49.796	ug/l	93
22) Diisopropyl ether	3.770	45	463923	49.767	ug/l	88
23) Vinyl Acetate	3.727	43	2714509	256.573	ug/l	97
24) 1,1-Dichloroethane	3.605	63	265569	49.535	ug/l	98
25) 2-Butanone	4.568	43	596832	250.510	ug/l	96
26) 2,2-Dichloropropane	4.477	77	162468	49.294	ug/l	94
27) cis-1,2-Dichloroethene	4.489	96	168872	50.400	ug/l	90
28) Bromochloromethane	4.904	49	87749	42.655	ug/l	87
29) Tetrahydrofuran	5.013	42	394746	245.196	ug/l	95
30) Chloroform	5.093	83	278019	49.536	ug/l	100
31) Cyclohexane	5.471	56	218533	49.934	ug/l	97
32) 1,1,1-Trichloroethane	5.385	97	247442	50.081	ug/l	98
36) 1,1-Dichloropropene	5.684	75	181962	48.359	ug/l	97
37) Ethyl Acetate	4.721	43	232409	49.366	ug/l	98
38) Carbon Tetrachloride	5.678	117	208889	49.179	ug/l	98
39) Methylcyclohexane	7.379	83	233010	52.093	ug/l	97
40) Benzene	6.038	78	587380	50.299	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042880.D
Acq On : 06 Aug 2024 19:28
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Aug 07 02:38:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:27:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.928	41	125039	51.567	ug/l		93
42) 1,2-Dichloroethane	6.086	62	211079	49.693	ug/l		98
43) Isopropyl Acetate	6.349	43	353348	50.750	ug/l		98
44) Trichloroethene	7.123	130	143642	48.953	ug/l		98
45) 1,2-Dichloropropane	7.428	63	147196	49.689	ug/l		100
46) Dibromomethane	7.580	93	108500	49.869	ug/l		94
47) Bromodichloromethane	7.824	83	206609	51.119	ug/l		99
48) Methyl methacrylate	7.696	41	174505	52.270	ug/l		91
49) 1,4-Dioxane	7.665	88	75953	988.943	ug/l	#	89
51) 4-Methyl-2-Pentanone	8.580	43	1174877	251.920	ug/l		98
52) Toluene	8.720	92	360392	50.877	ug/l		95
53) t-1,3-Dichloropropene	8.982	75	193799	51.871	ug/l		98
54) cis-1,3-Dichloropropene	8.366	75	213498	51.742	ug/l		91
55) 1,1,2-Trichloroethane	9.153	97	142554	49.504	ug/l		93
56) Ethyl methacrylate	9.116	69	236953	51.135	ug/l		94
57) 1,3-Dichloropropane	9.311	76	235251	49.869	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.245	63	574465	263.032	ug/l		99
59) 2-Hexanone	9.433	43	908960	251.528	ug/l		97
60) Dibromochloromethane	9.519	129	158037	49.958	ug/l		99
61) 1,2-Dibromoethane	9.610	107	152395	50.089	ug/l		100
64) Tetrachloroethene	9.275	164	131072	50.092	ug/l		96
65) Chlorobenzene	10.080	112	391018	48.964	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.165	131	137657	49.991	ug/l		100
67) Ethyl Benzene	10.195	91	679787	50.606	ug/l		100
68) m/p-Xylenes	10.299	106	524202	102.222	ug/l		98
69) o-Xylene	10.640	106	258694	50.359	ug/l		98
70) Styrene	10.653	104	434136	52.555	ug/l		97
71) Bromoform	10.799	173	113423	48.675	ug/l	#	99
73) Isopropylbenzene	10.964	105	654538	50.806	ug/l		99
74) N-amyl acetate	10.842	43	301881	52.077	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.214	83	227046	48.108	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	187659m	48.010	ug/l		
77) Bromobenzene	11.195	156	163448	49.875	ug/l		90
78) n-propylbenzene	11.305	91	750582	52.450	ug/l		100
79) 2-Chlorotoluene	11.366	91	458041	49.939	ug/l		97
80) 1,3,5-Trimethylbenzene	11.451	105	551055	51.658	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	64112	52.018	ug/l		93
82) 4-Chlorotoluene	11.451	91	520906	50.527	ug/l		98
83) tert-Butylbenzene	11.713	119	552320	50.382	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	562656	52.393	ug/l		99
85) sec-Butylbenzene	11.890	105	673663	52.187	ug/l		100
86) p-Isopropyltoluene	12.006	119	571852	53.321	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	293521	49.490	ug/l		97
88) 1,4-Dichlorobenzene	12.043	146	291382	47.930	ug/l		98
89) n-Butylbenzene	12.329	91	485925	52.520	ug/l		97
90) Hexachloroethane	12.536	117	97498	49.698	ug/l		84
91) 1,2-Dichlorobenzene	12.335	146	295210	49.707	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	52278	50.412	ug/l		84
93) 1,2,4-Trichlorobenzene	13.585	180	181296	50.045	ug/l		93
94) Hexachlorobutadiene	13.725	225	77353	50.346	ug/l		98
95) Naphthalene	13.774	128	652942	52.086	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	186267	51.079	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042880.D
Acq On : 06 Aug 2024 19:28
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

Quant Time: Aug 07 02:38:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:27:24 2024
Response via : Initial Calibration

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

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

ICAL Form

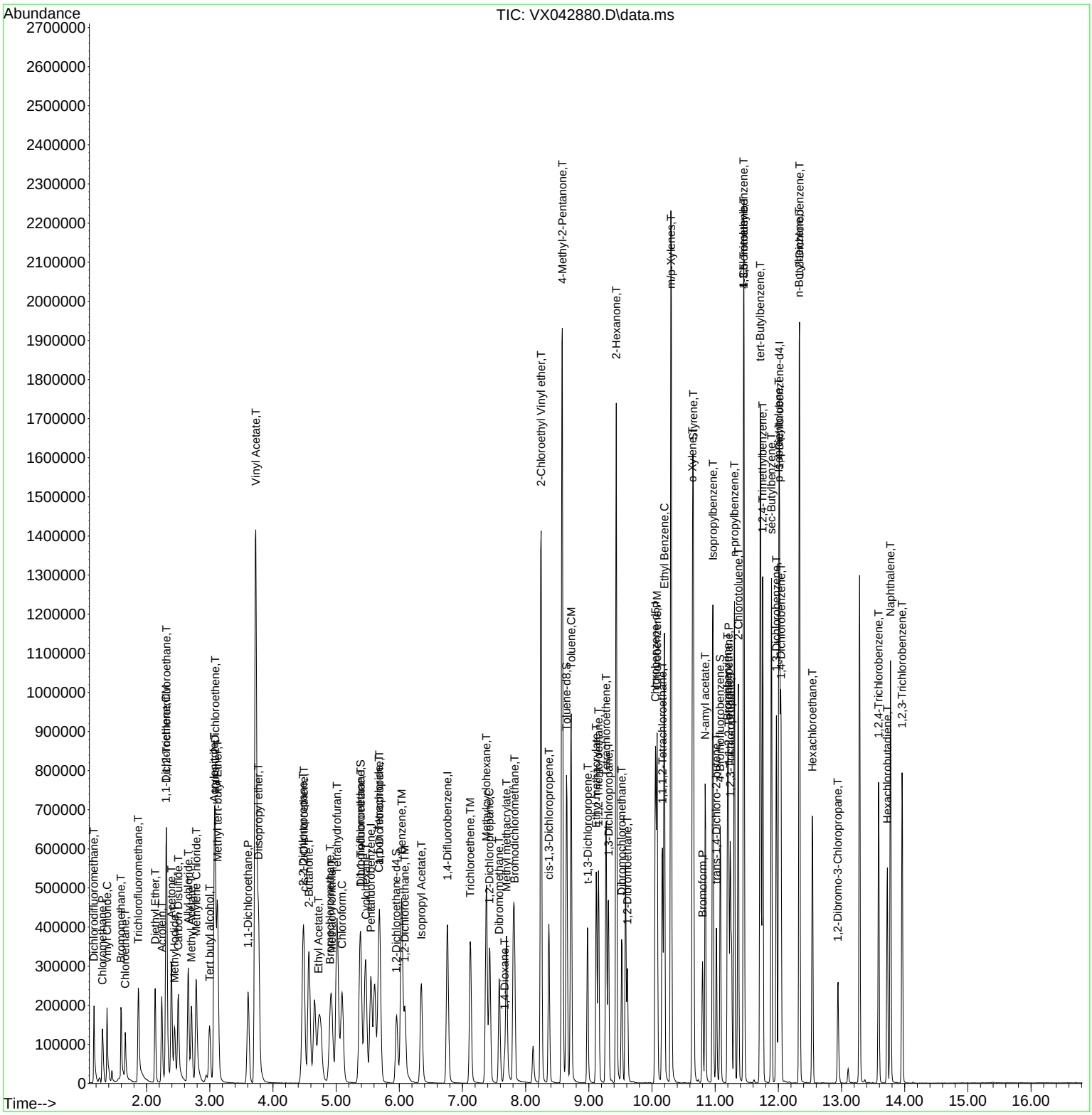
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042880.D
Acq On : 06 Aug 2024 19:28
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

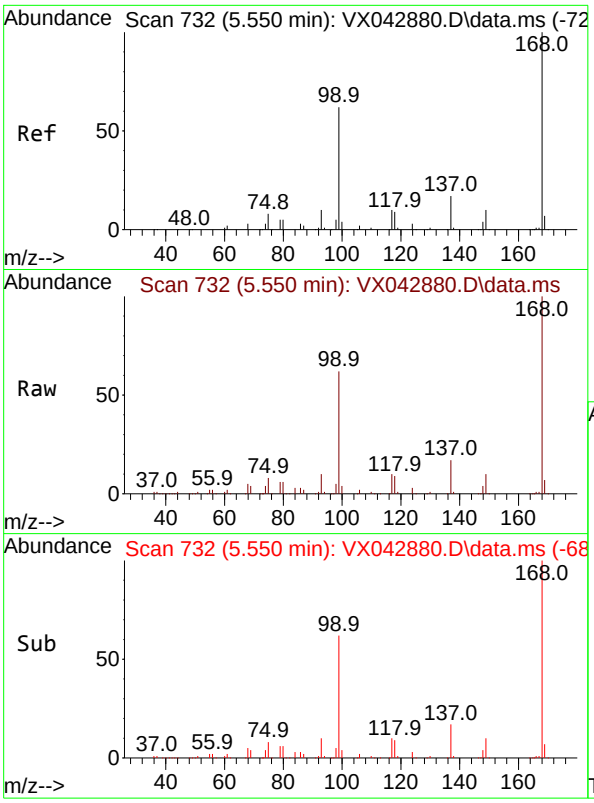
Quant Time: Aug 07 02:38:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:27:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

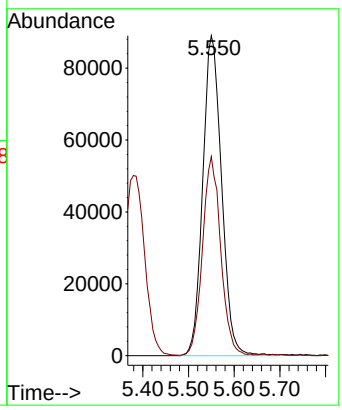




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion:168 Resp: 25478

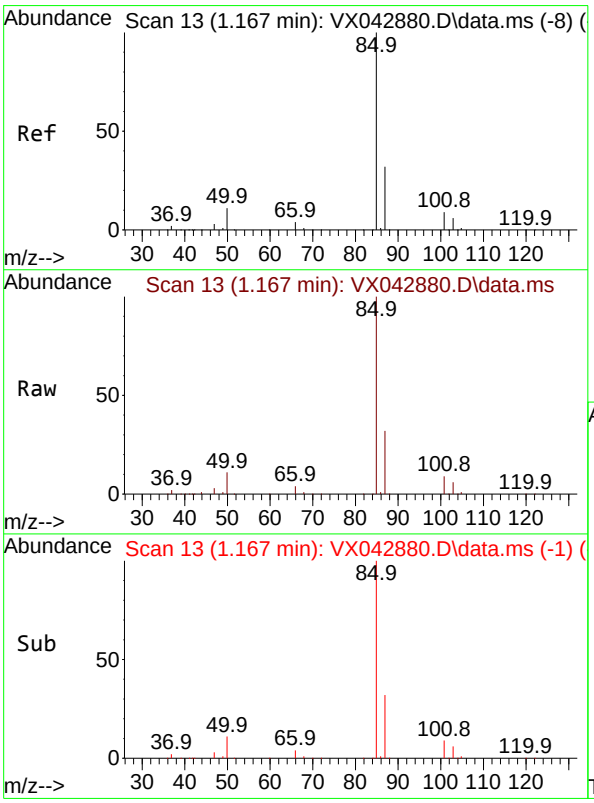
Ion	Ratio	Lower	Upper
168	100		
99	62.0	56.6	85.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

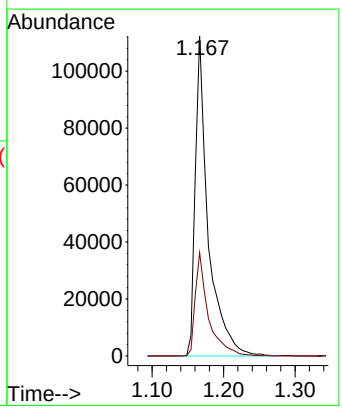
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

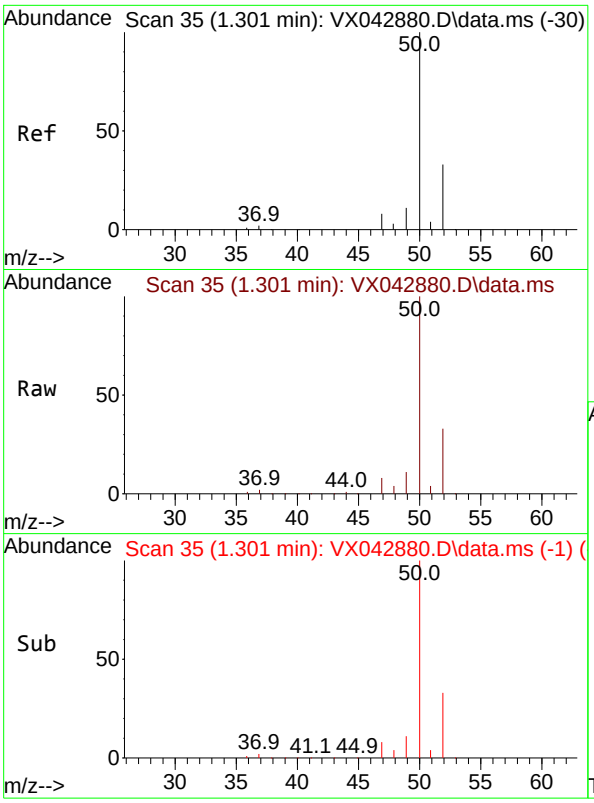


#2
Dichlorodifluoromethane
Concen: 51.209 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 85 Resp: 140634

Ion	Ratio	Lower	Upper
85	100		
87	32.3	16.7	50.1

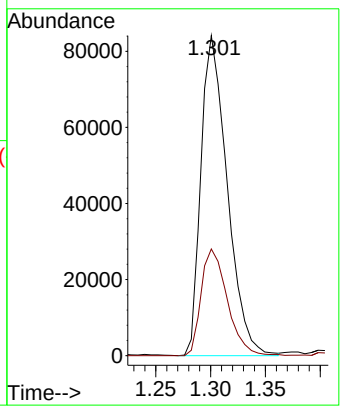




#3
Chloromethane
Concen: 46.943 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 50 Resp: 14046

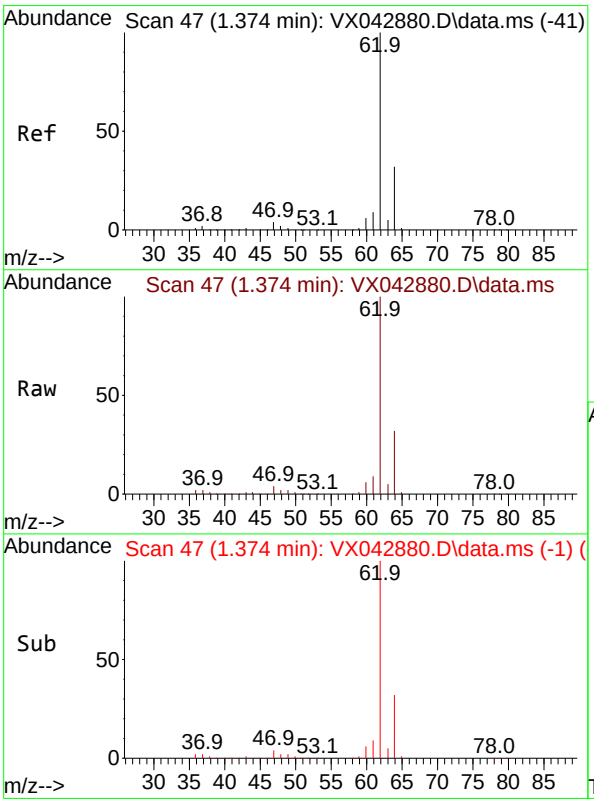
Ion	Ratio	Lower	Upper
50	100		
52	33.4	25.5	38.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

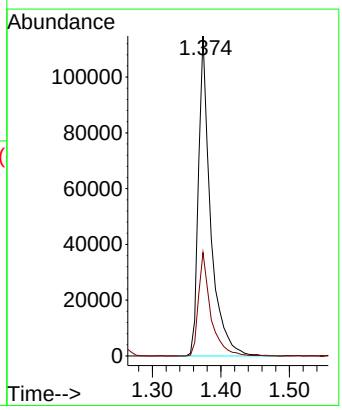
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

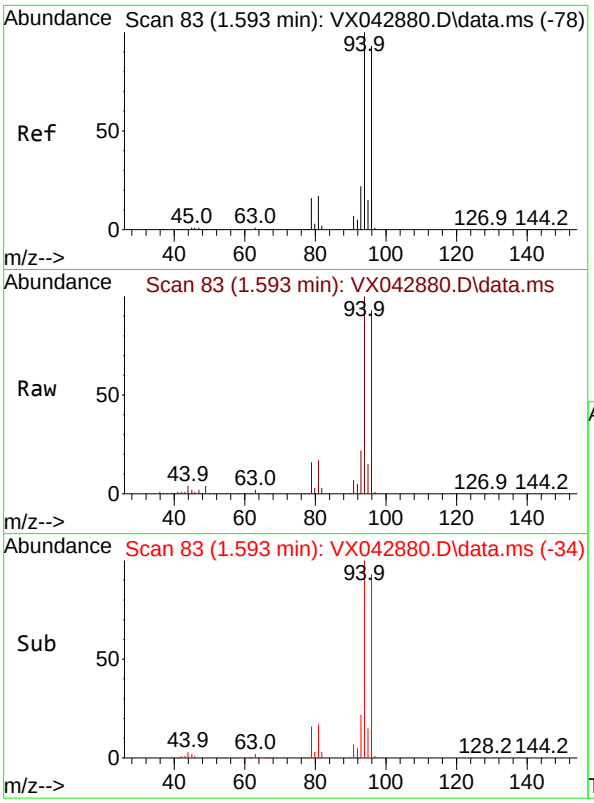


#4
Vinyl Chloride
Concen: 49.486 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 62 Resp: 140494

Ion	Ratio	Lower	Upper
62	100		
64	32.4	25.4	38.0

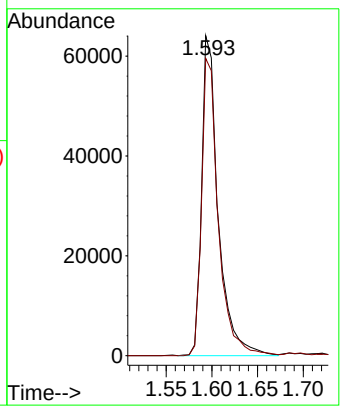




#5
Bromomethane
Concen: 46.921 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 94 Resp: 8062

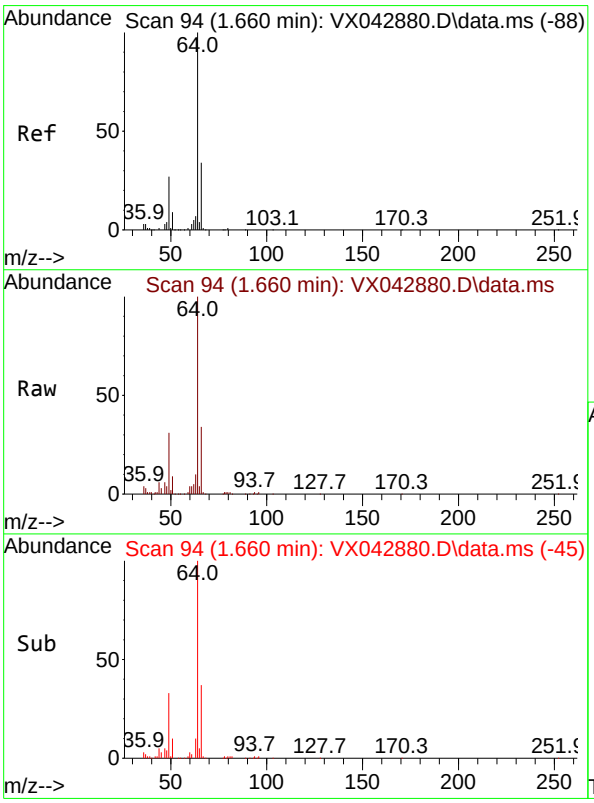
Ion	Ratio	Lower	Upper
94	100		
96	92.9	74.6	111.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

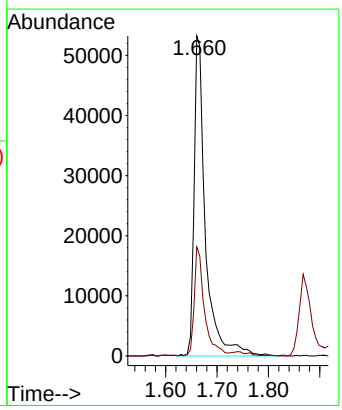
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

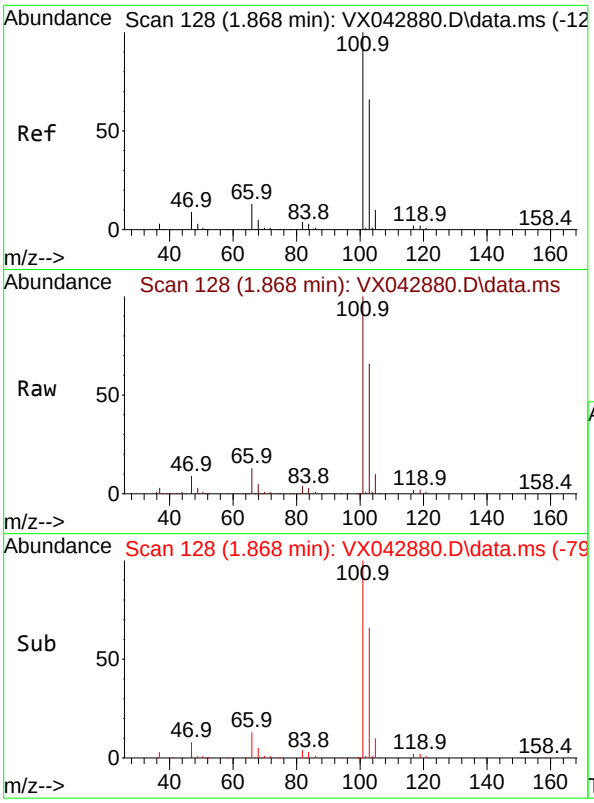


#6
Chloroethane
Concen: 50.531 ug/l
RT: 1.660 min Scan# 94
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 64 Resp: 81728

Ion	Ratio	Lower	Upper
64	100		
66	34.1	25.1	37.7

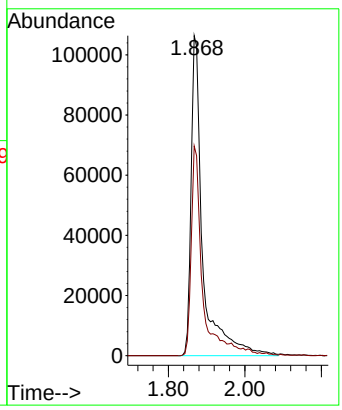




#7
Trichlorofluoromethane
Concen: 51.168 ug/l
RT: 1.868 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion:101 Resp: 22592

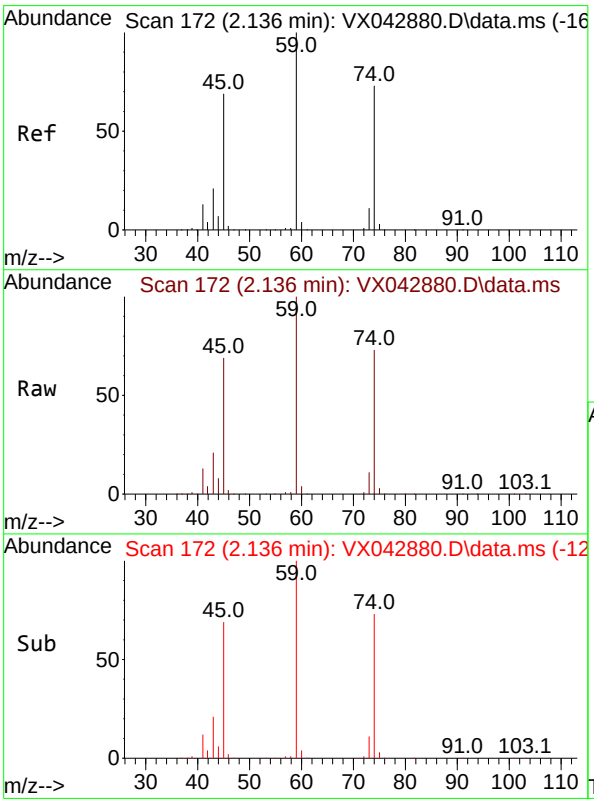
Ion	Ratio	Lower	Upper
101	100		
103	65.5	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

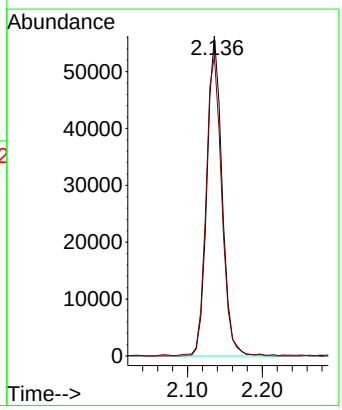
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

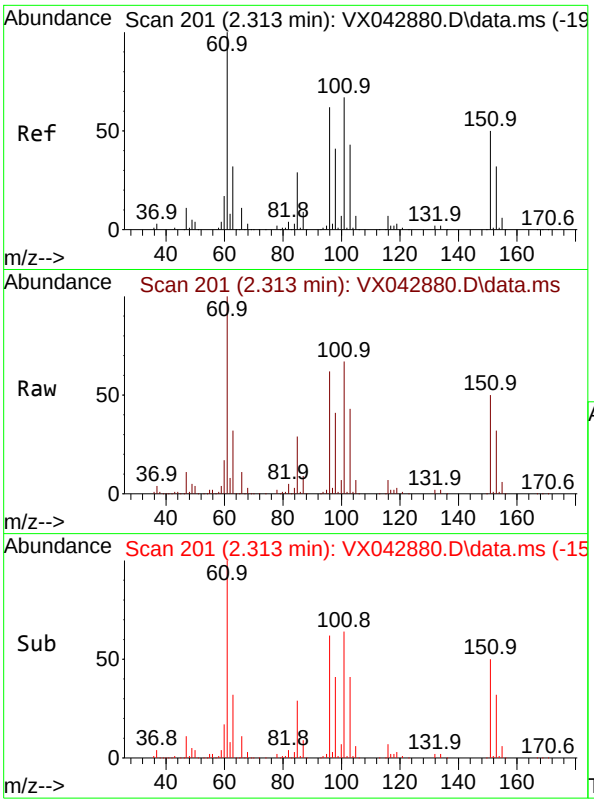


#8
Diethyl Ether
Concen: 48.458 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 74 Resp: 78696

Ion	Ratio	Lower	Upper
74	100		
45	97.4	53.3	159.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.913 ug/l
RT: 2.313 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

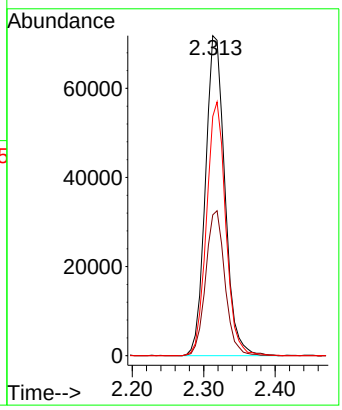
Tgt Ion:101 Resp: 13578

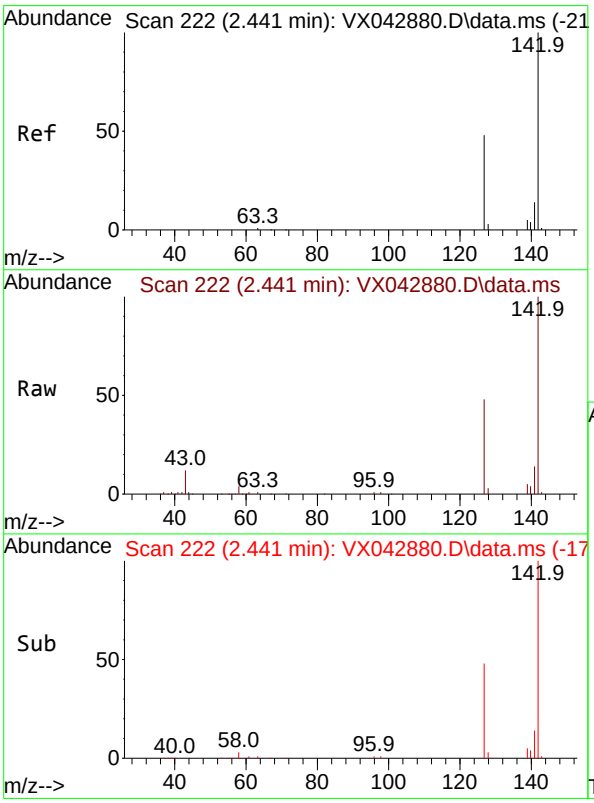
Ion	Ratio	Lower	Upper
101	100		
85	44.9	37.0	55.6
151	78.1	58.6	87.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

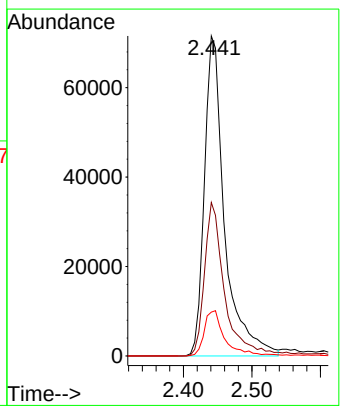


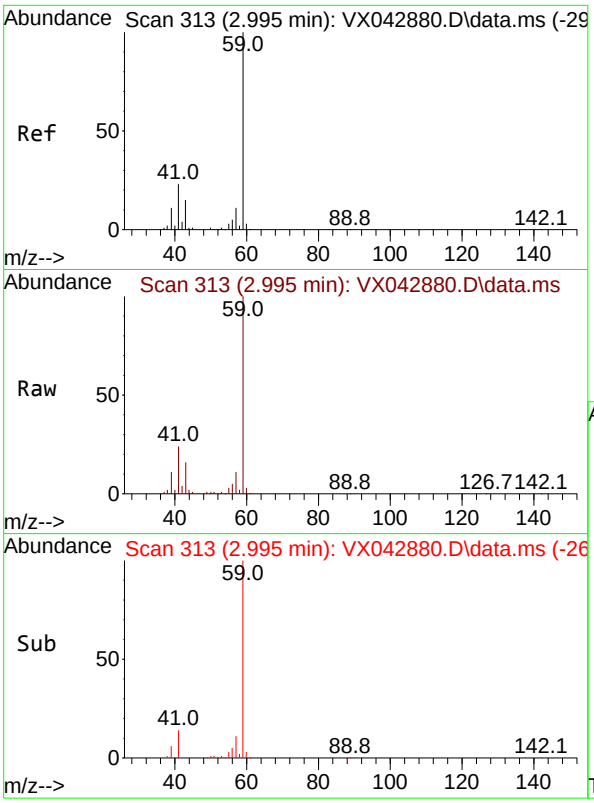


#10
Methyl Iodide
Concen: 51.049 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion:142 Resp: 146530

Ion	Ratio	Lower	Upper
142	100		
127	48.6	41.6	62.4
141	14.6	11.6	17.4

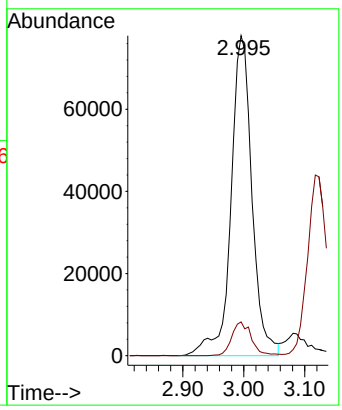




#11
Tert butyl alcohol
Concen: 269.115 ug/l
RT: 2.995 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 59 Resp: 18722

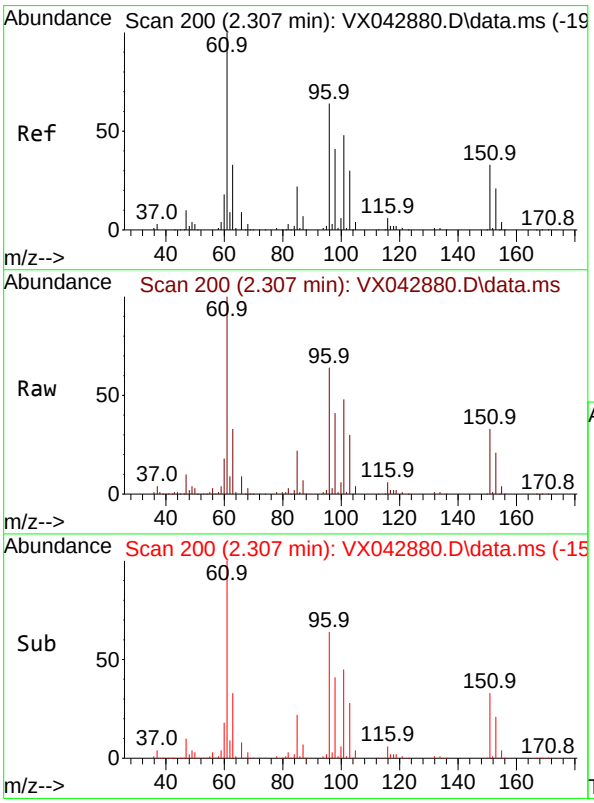
Ion	Ratio	Lower	Upper
59	100		
57	9.9	6.0	9.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

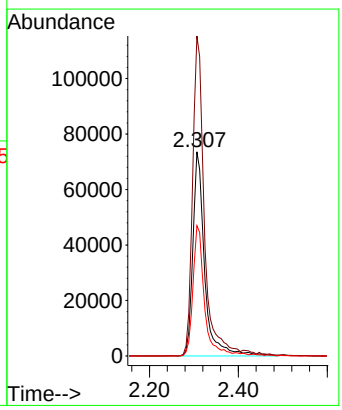
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

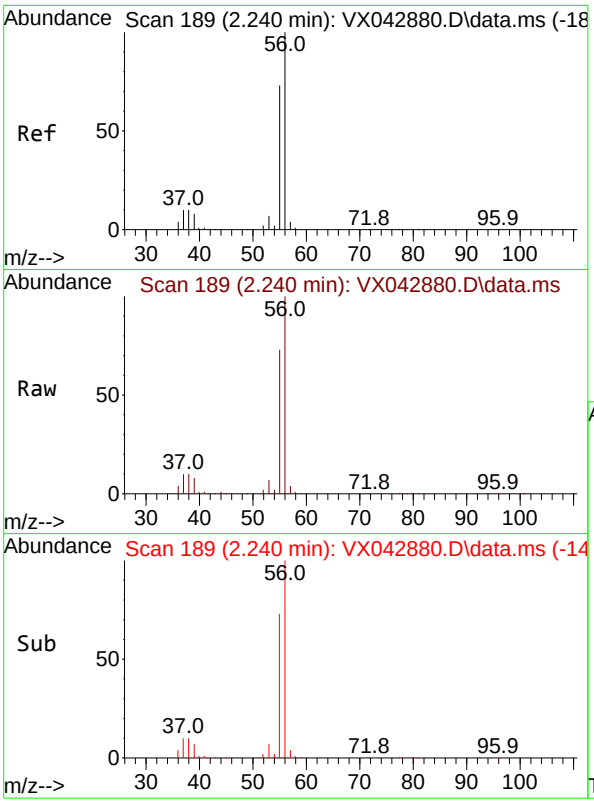


#12
1,1-Dichloroethene
Concen: 48.568 ug/l
RT: 2.307 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 96 Resp: 136392

Ion	Ratio	Lower	Upper
96	100		
61	156.7	144.6	216.8
98	63.8	50.4	75.6

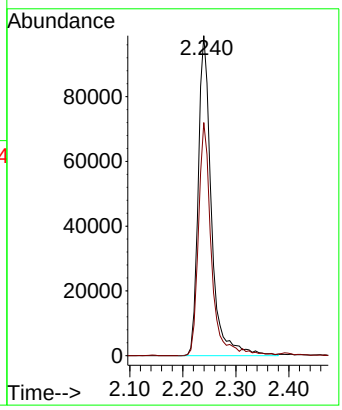




#13
Acrolein
Concen: 249.005 ug/l
RT: 2.240 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 56 Resp: 17075

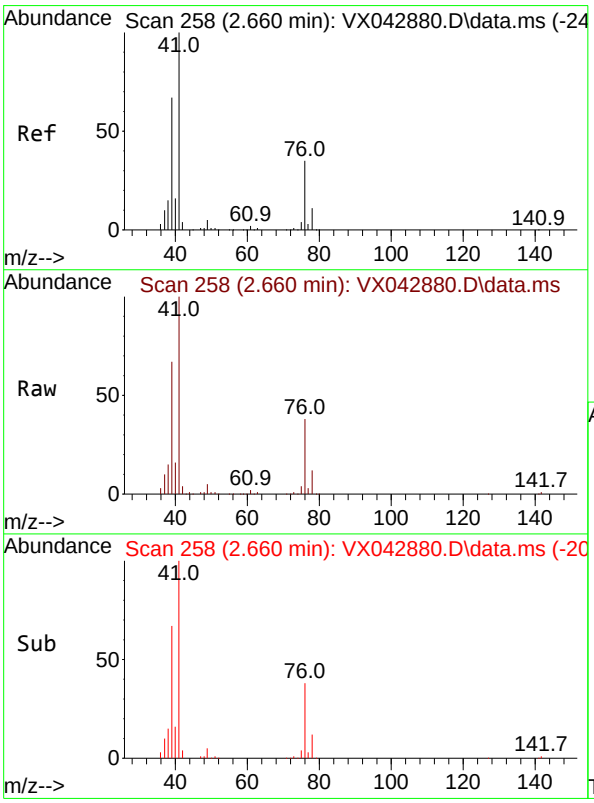
Ion	Ratio	Lower	Upper
56	100		
55	71.8	57.1	85.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

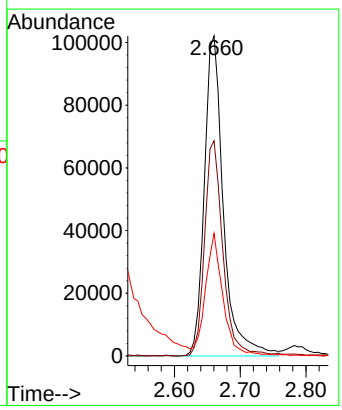
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

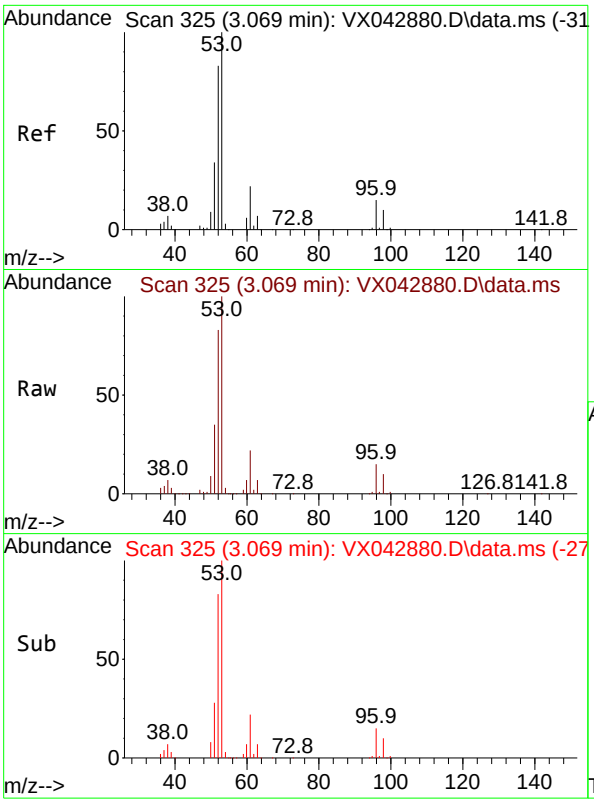


#14
Allyl chloride
Concen: 48.593 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 41 Resp: 206197

Ion	Ratio	Lower	Upper
41	100		
39	64.3	55.8	83.6
76	35.4	24.3	36.5

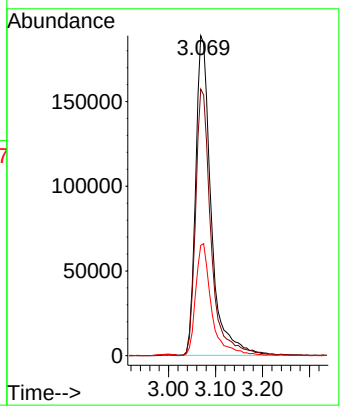




#15
Acrylonitrile
Concen: 245.001 ug/l
RT: 3.069 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 53 Resp: 43504

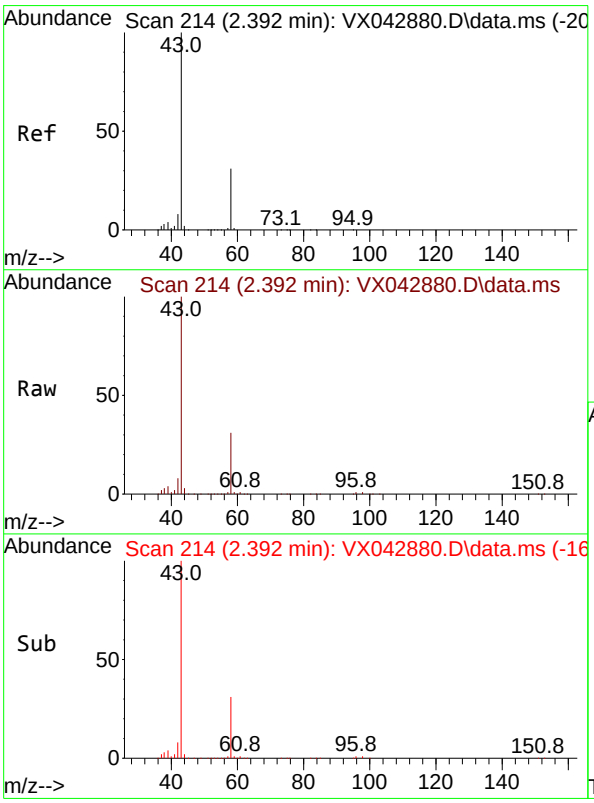
Ion	Ratio	Lower	Upper
53	100		
52	83.5	66.0	99.0
51	35.5	29.8	44.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

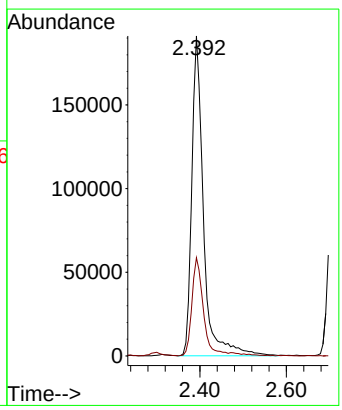
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

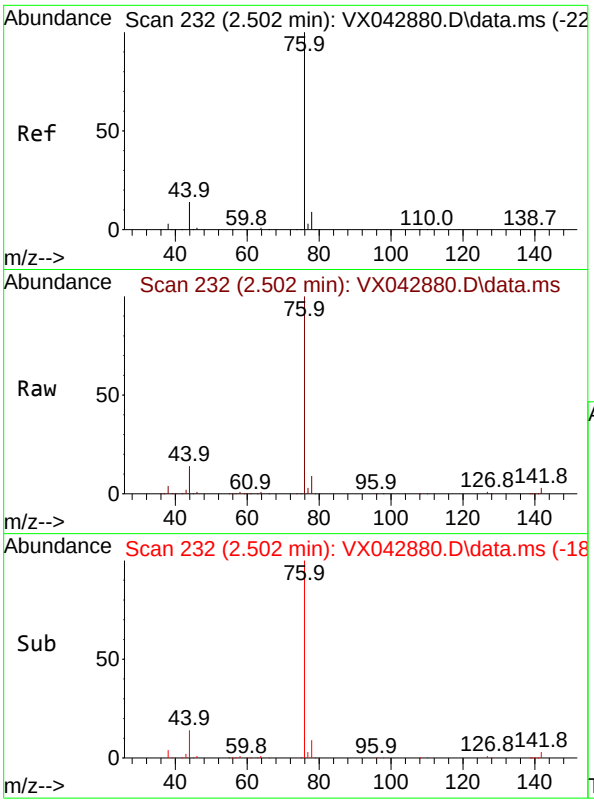


#16
Acetone
Concen: 236.445 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 43 Resp: 358706

Ion	Ratio	Lower	Upper
43	100		
58	30.6	21.9	32.9





#17
Carbon Disulfide
Concen: 48.357 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

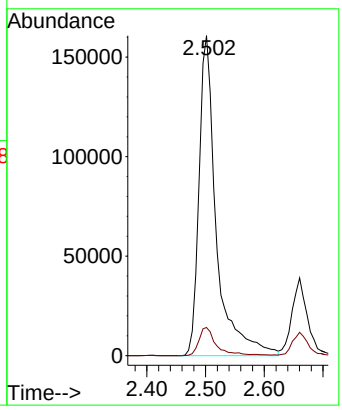
Tgt Ion: 76 Resp: 33046

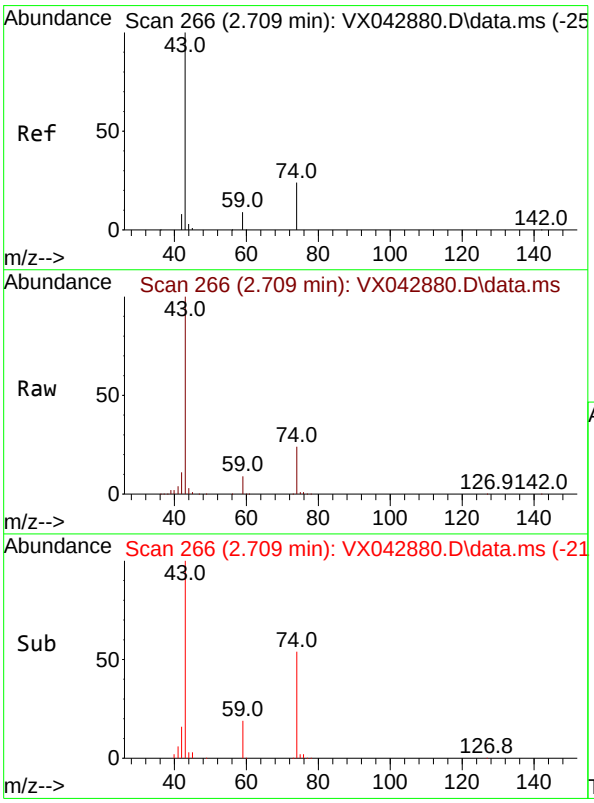
Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.0	10.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

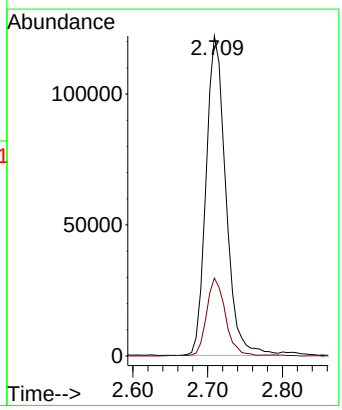


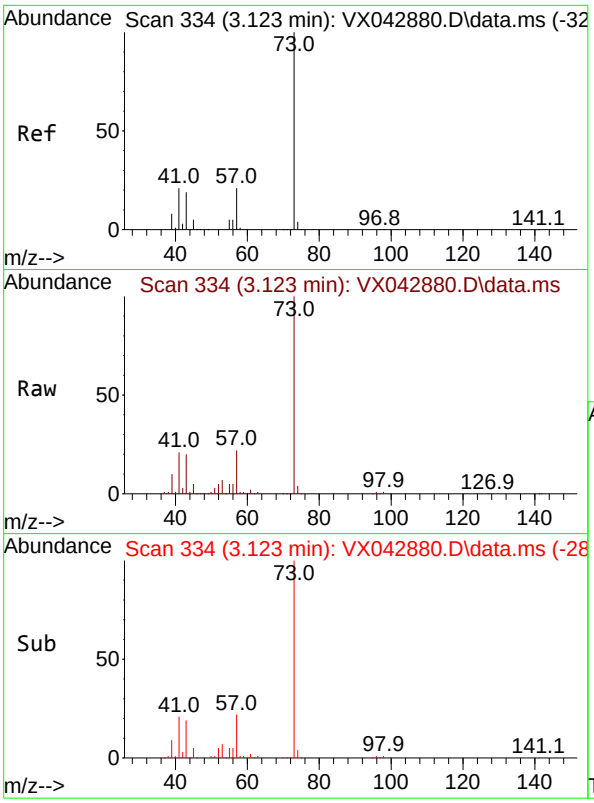


#18
Methyl Acetate
Concen: 46.677 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 43 Resp: 224558

Ion	Ratio	Lower	Upper
43	100		
74	22.7	17.8	26.8





#19
Methyl tert-butyl Ether
Concen: 49.444 ug/l
RT: 3.123 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

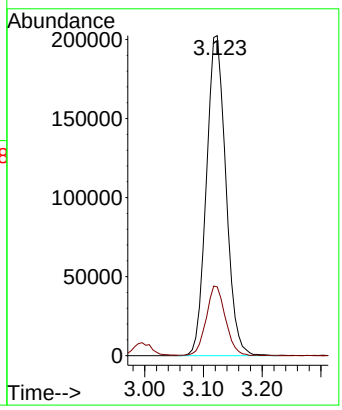
Tgt Ion: 73 Resp: 46735

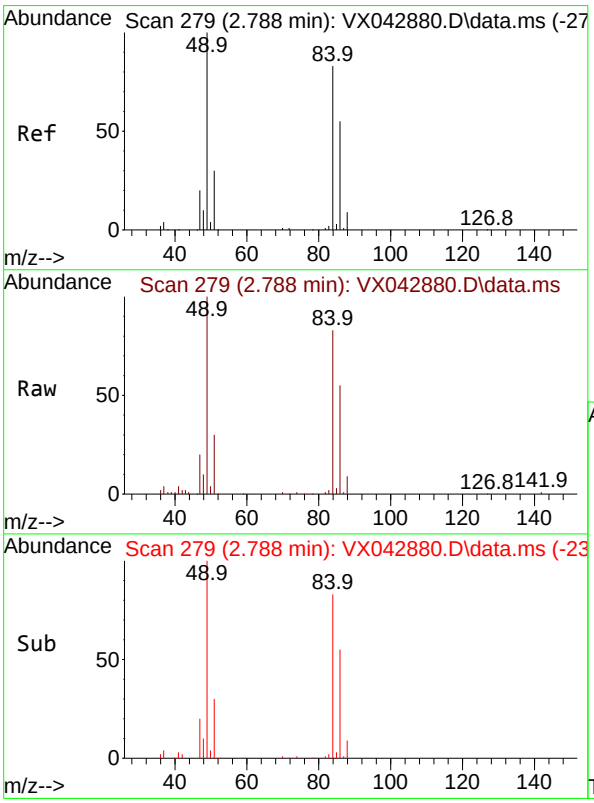
Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.3	25.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

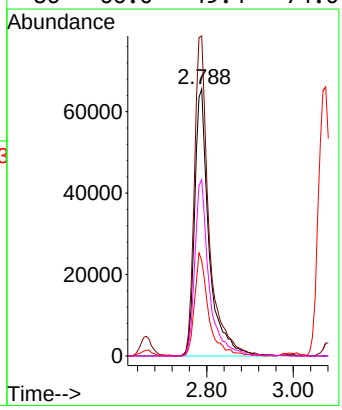


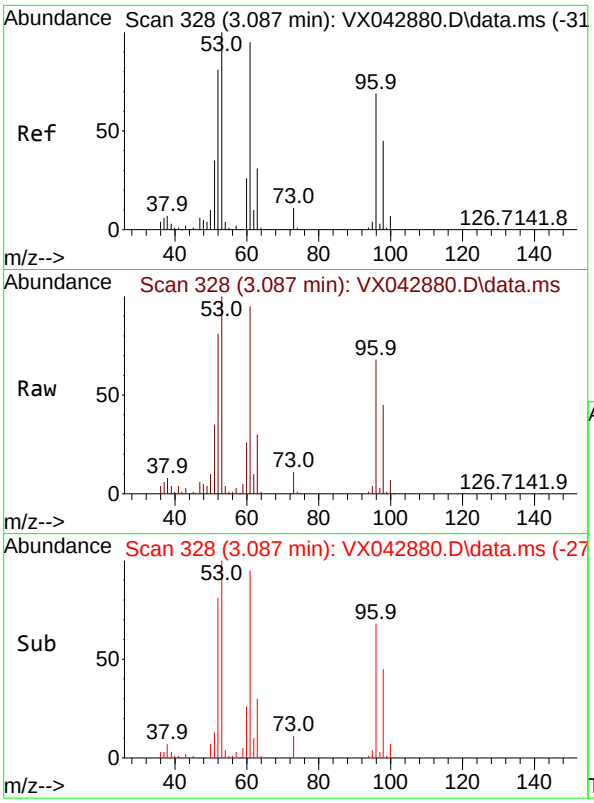


#20
Methylene Chloride
Concen: 48.325 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 84 Resp: 151800

Ion	Ratio	Lower	Upper
84	100		
49	119.9	103.6	155.4
51	35.7	33.8	50.6
86	66.0	49.4	74.0

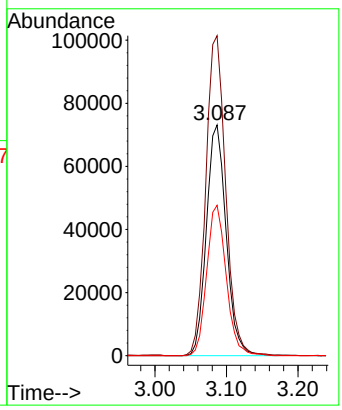




#21
trans-1,2-Dichloroethene
Concen: 49.796 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 96 Resp: 14069

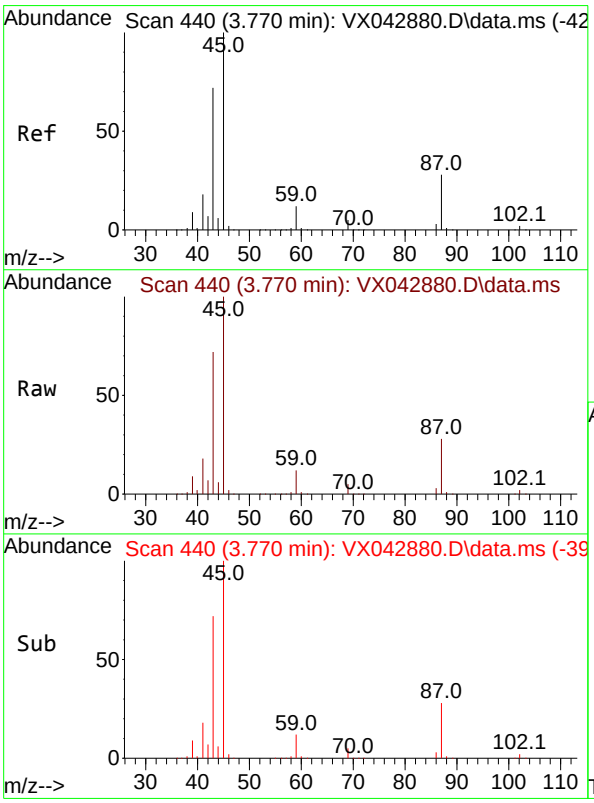
Ion	Ratio	Lower	Upper
96	100		
61	138.7	119.2	178.8
98	65.2	48.7	73.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

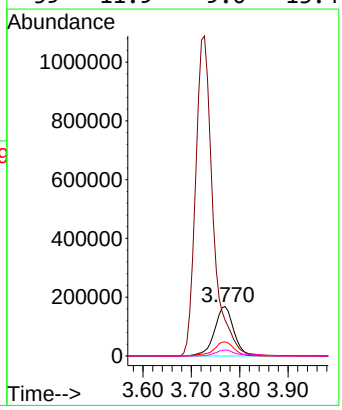
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

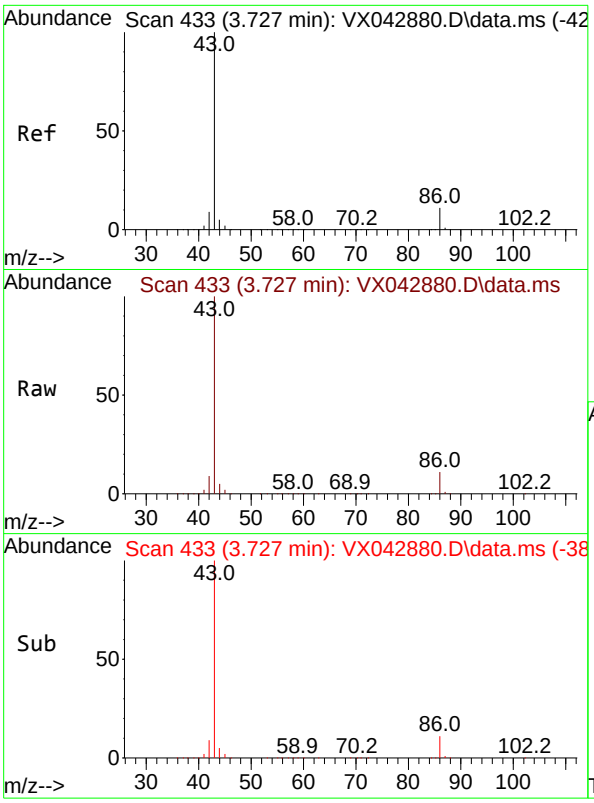


#22
Diisopropyl ether
Concen: 49.767 ug/l
RT: 3.770 min Scan# 440
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 45 Resp: 463923

Ion	Ratio	Lower	Upper
45	100		
43	72.3	69.7	104.5
87	28.5	20.8	31.2
59	11.9	9.0	13.4





#23
Vinyl Acetate
Concen: 256.573 ug/l
RT: 3.727 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

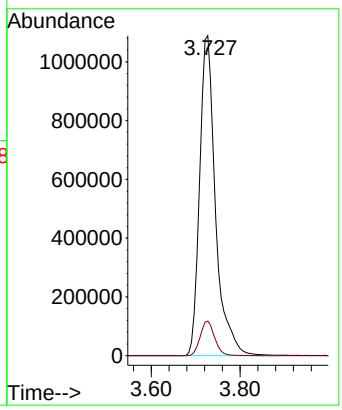
Tgt Ion: 43 Resp: 271450

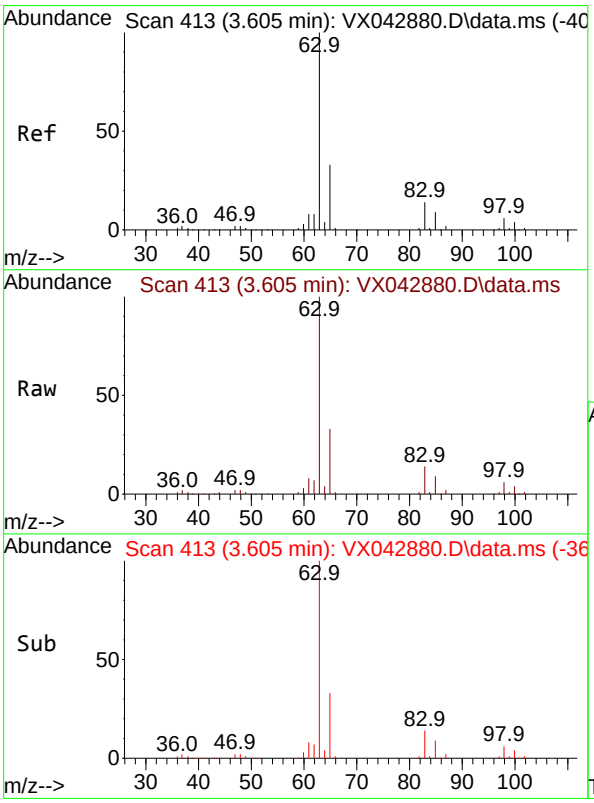
Ion	Ratio	Lower	Upper
43	100		
86	10.8	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

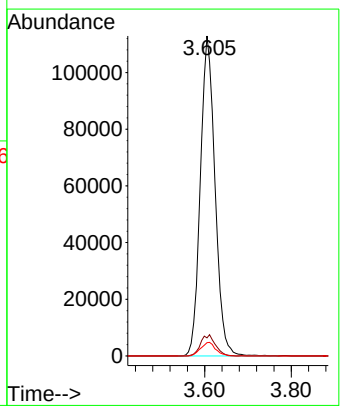


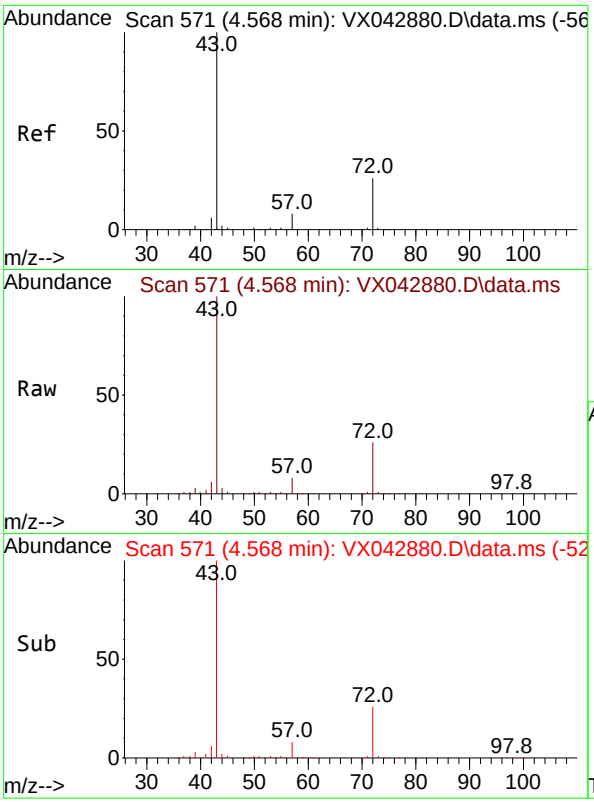


#24
1,1-Dichloroethane
Concen: 49.535 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 63 Resp: 265569

Ion	Ratio	Lower	Upper
63	100		
98	5.7	3.3	9.8
100	4.1	2.1	6.5





#25
2-Butanone
Concen: 250.510 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

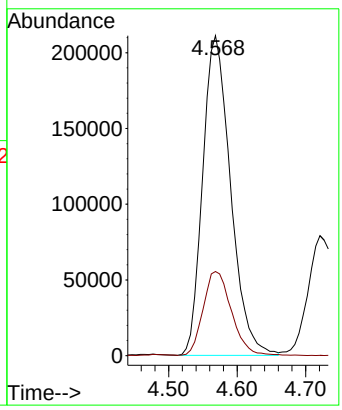
Tgt Ion: 43 Resp: 59683

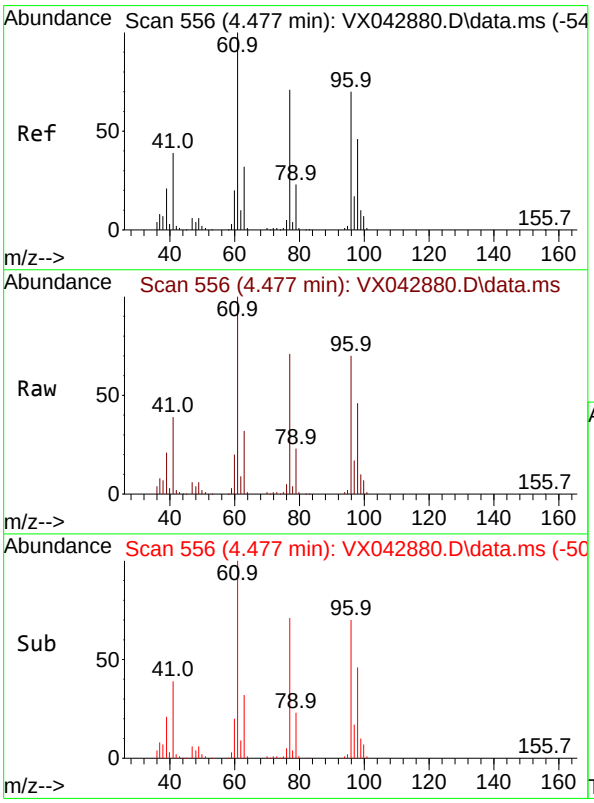
Ion	Ratio	Lower	Upper
43	100		
72	26.3	19.4	29.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

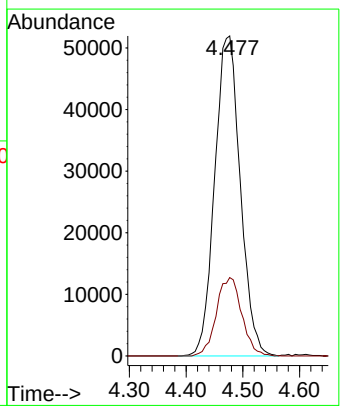


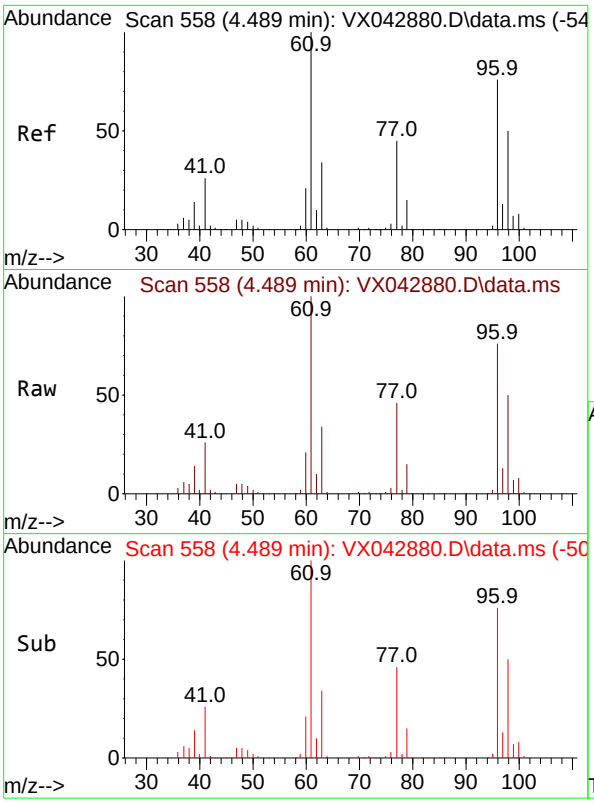


#26
2,2-Dichloropropane
Concen: 49.294 ug/l
RT: 4.477 min Scan# 556
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 77 Resp: 162468

Ion	Ratio	Lower	Upper
77	100		
97	24.3	10.8	32.3

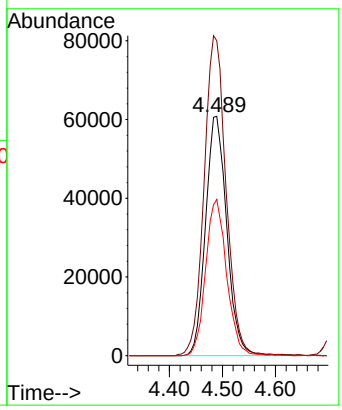




#27
cis-1,2-Dichloroethene
Concen: 50.400 ug/l
RT: 4.489 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 96 Resp: 16887

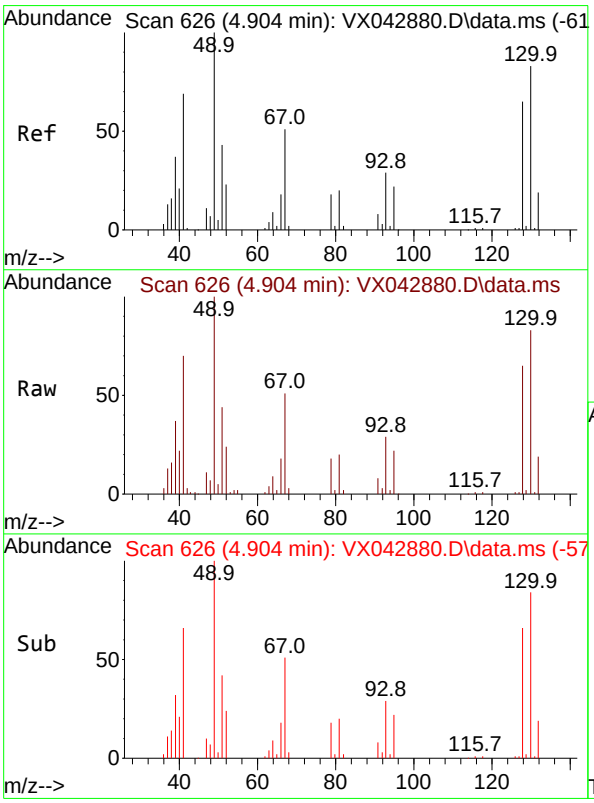
Ion	Ratio	Lower	Upper
96	100		
61	138.2	0.0	312.2
98	64.8	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

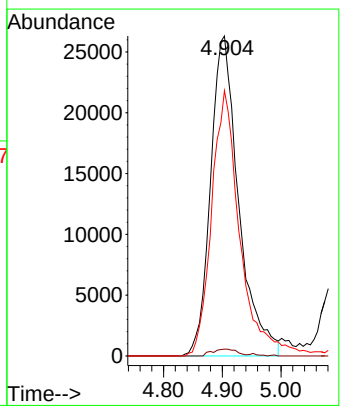
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

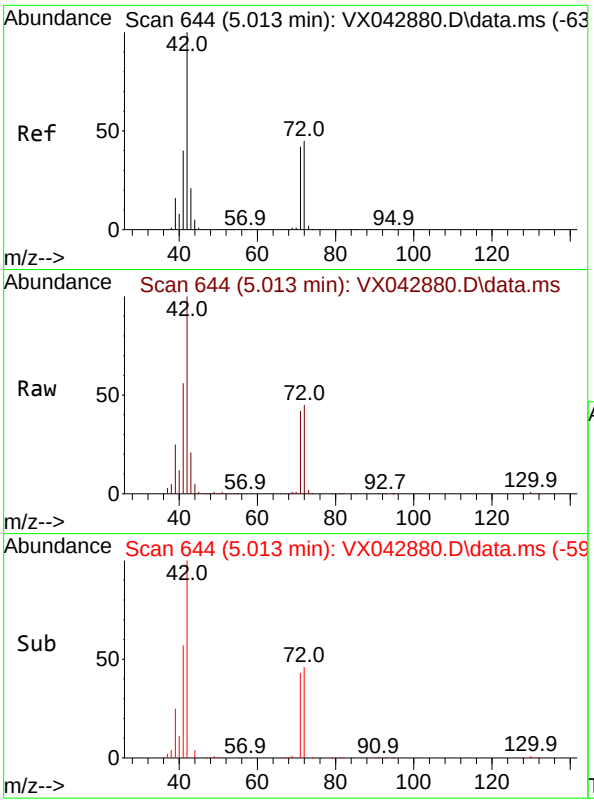


#28
Bromochloromethane
Concen: 42.655 ug/l
RT: 4.904 min Scan# 626
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 49 Resp: 87749

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.8
130	83.0	57.5	86.3

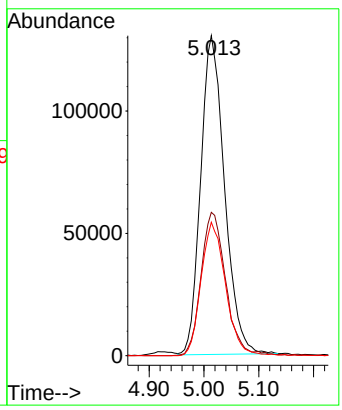




#29
Tetrahydrofuran
Concen: 245.196 ug/l
RT: 5.013 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 42 Resp: 39474

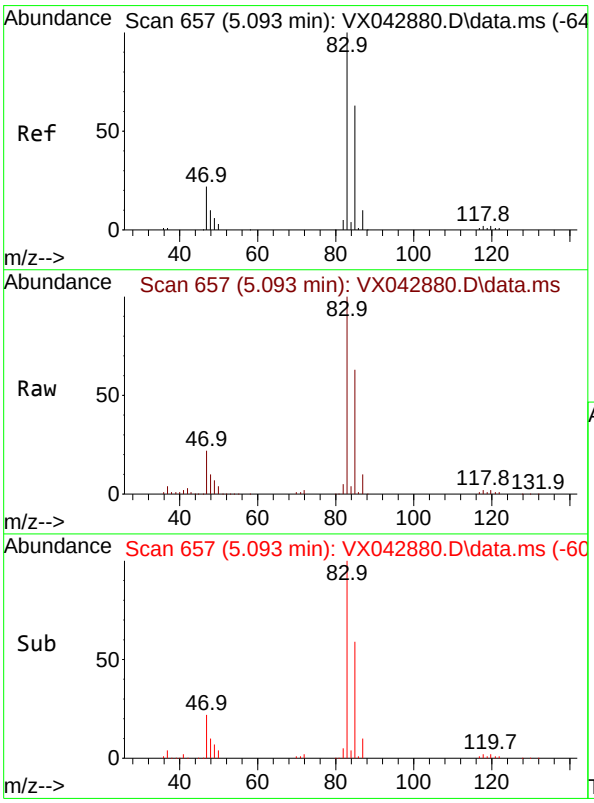
Ion	Ratio	Lower	Upper
42	100		
72	46.5	34.2	51.4
71	42.7	32.2	48.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

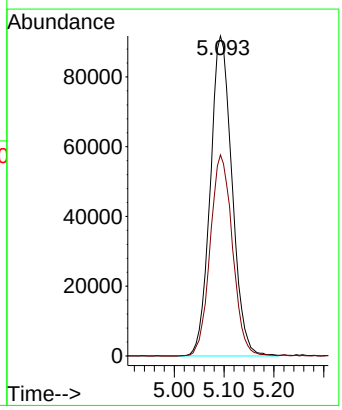
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

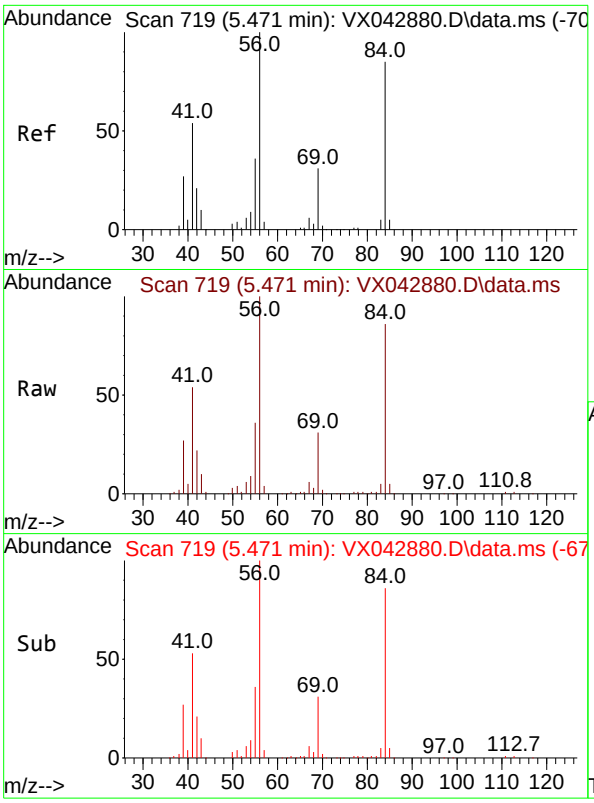


#30
Chloroform
Concen: 49.536 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 83 Resp: 278019

Ion	Ratio	Lower	Upper
83	100		
85	62.8	50.3	75.5

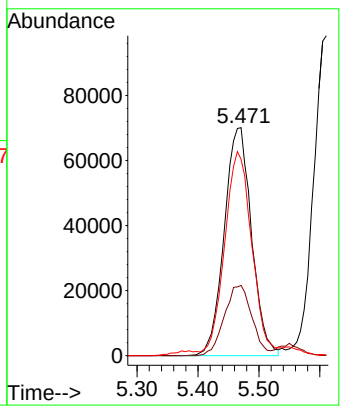




#31
Cyclohexane
Concen: 49.934 ug/l
RT: 5.471 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 56 Resp: 21853

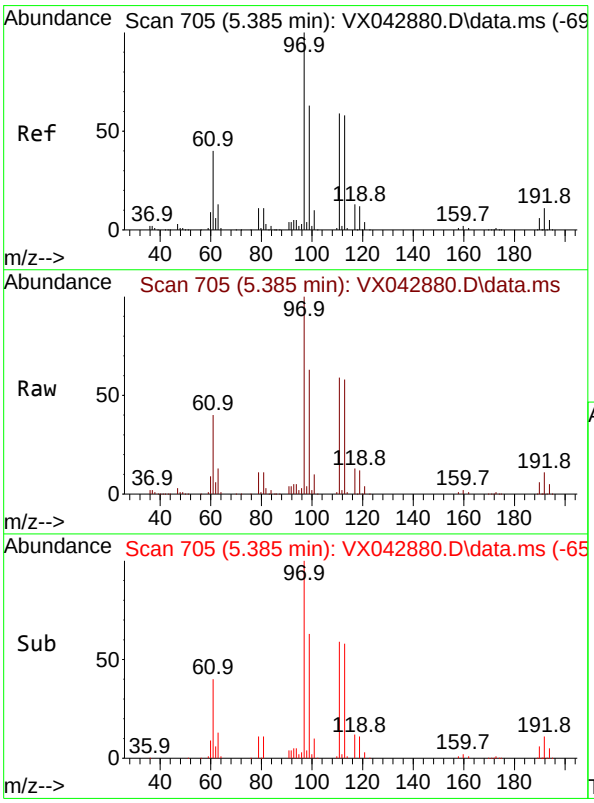
Ion	Ratio	Lower	Upper
56	100		
69	30.8	23.4	35.2
84	84.8	65.9	98.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

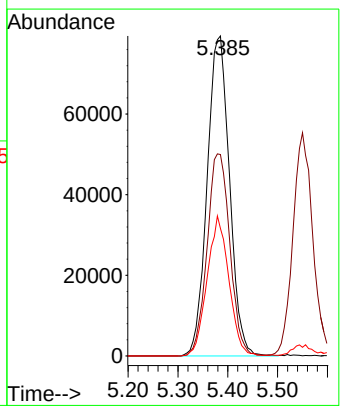
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

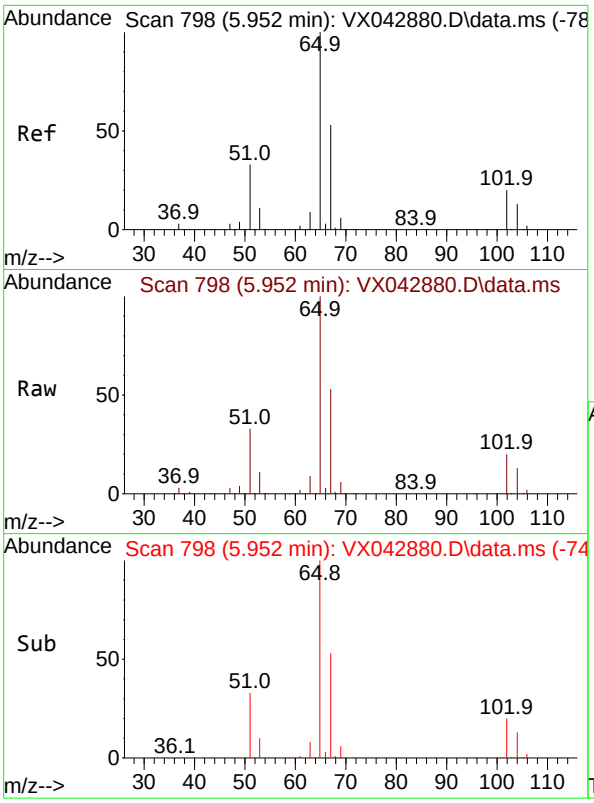


#32
1,1,1-Trichloroethane
Concen: 50.081 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 97 Resp: 247442

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.1	76.7
61	42.5	36.4	54.6

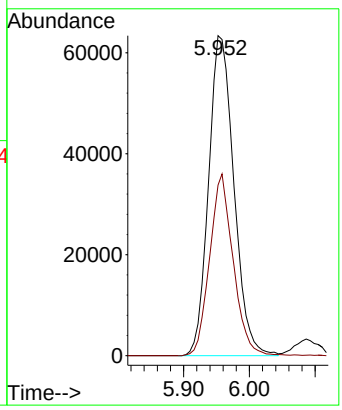




#33
1,2-Dichloroethane-d4
Concen: 48.582 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 65 Resp: 16992

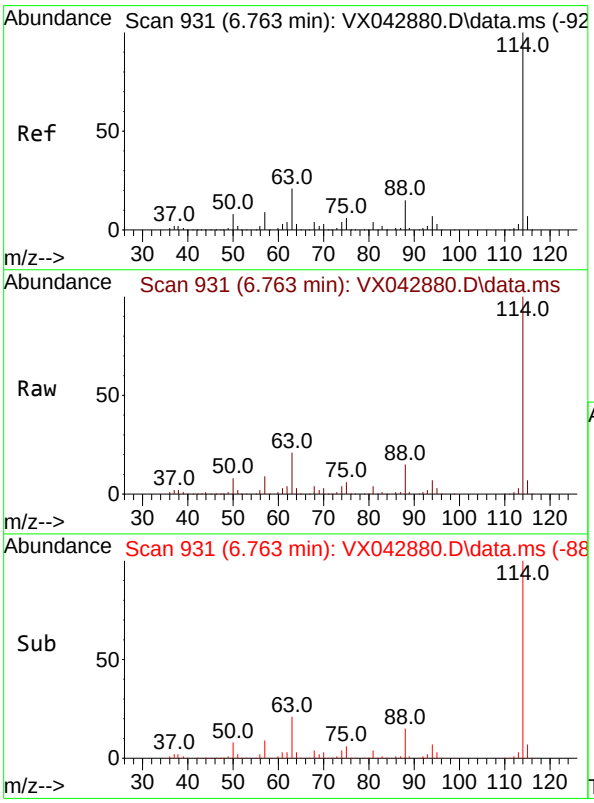
Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	100.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

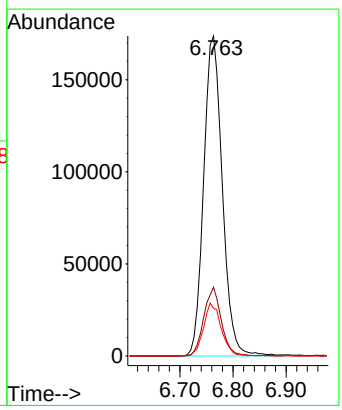
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

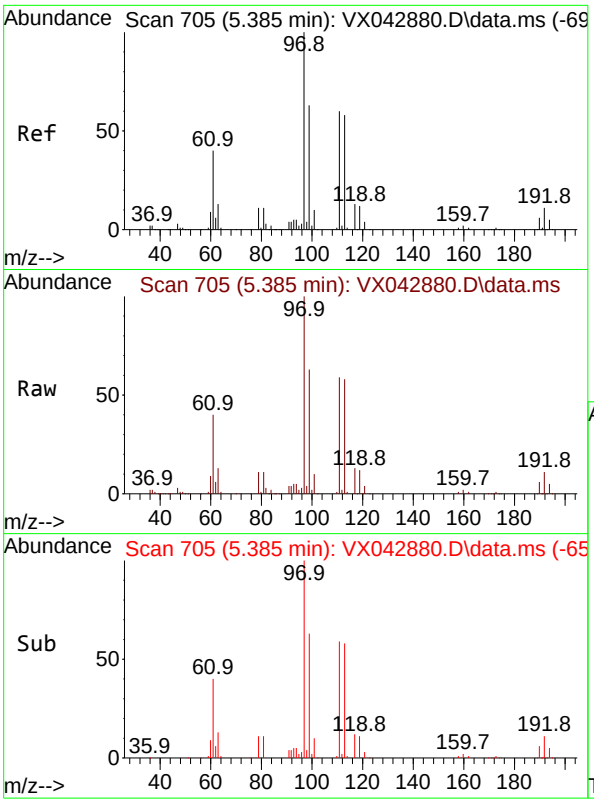


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion:114 Resp: 424451

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	45.0
88	14.9	0.0	36.6

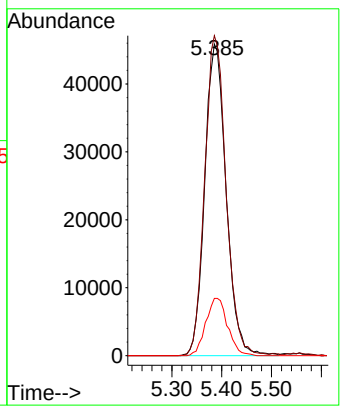




#35
Dibromofluoromethane
Concen: 49.374 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion:113 Resp: 13702

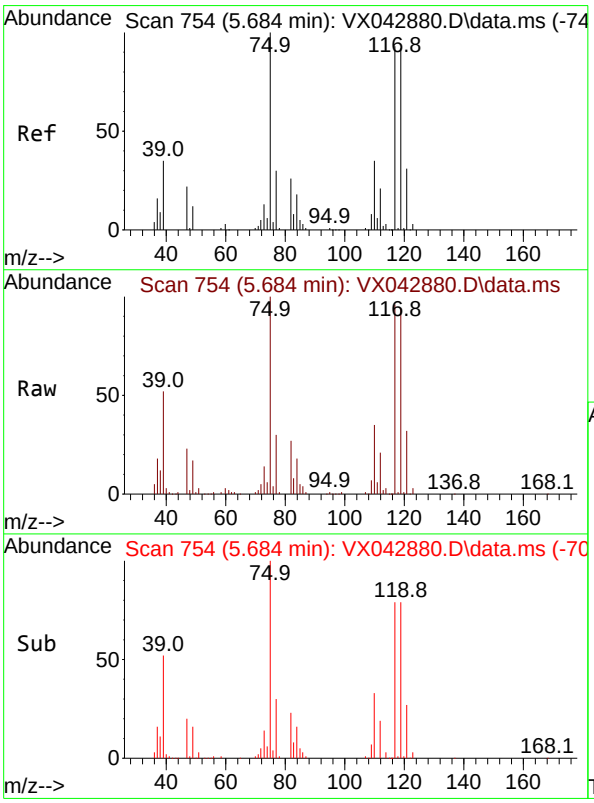
Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.9	124.3
192	18.7	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

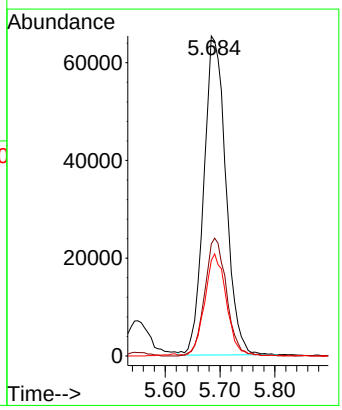
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

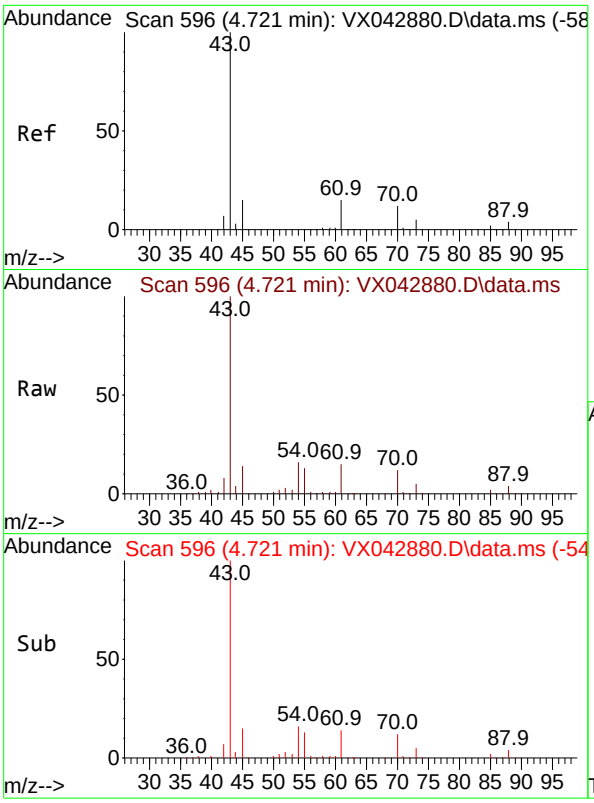


#36
1,1-Dichloropropene
Concen: 48.359 ug/l
RT: 5.684 min Scan# 754
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 75 Resp: 181962

Ion	Ratio	Lower	Upper
75	100		
110	36.5	17.0	50.9
77	31.1	24.7	37.1

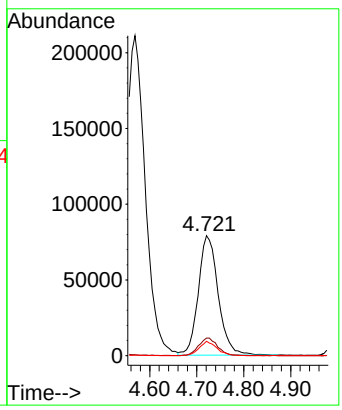




#37
Ethyl Acetate
Concen: 49.366 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 43 Resp: 23240

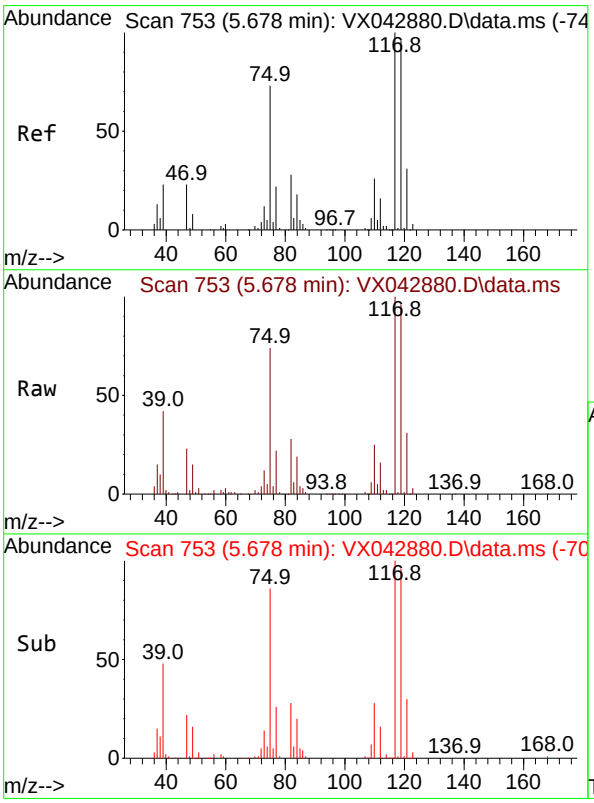
Ion	Ratio	Lower	Upper
43	100		
61	14.4	10.6	16.0
70	10.8	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

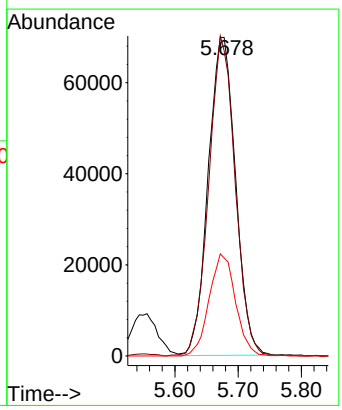
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

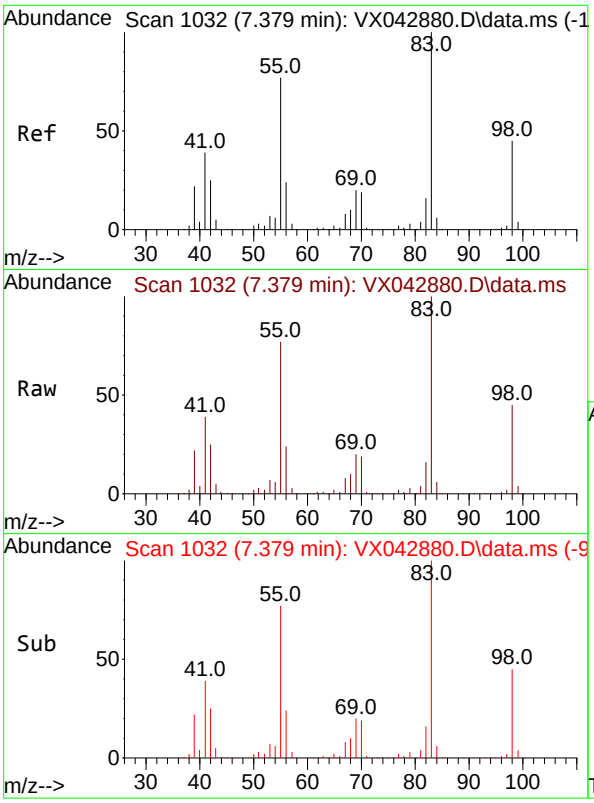


#38
Carbon Tetrachloride
Concen: 49.179 ug/l
RT: 5.678 min Scan# 753
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion:117 Resp: 208889

Ion	Ratio	Lower	Upper
117	100		
119	95.9	78.2	117.2
121	30.9	24.4	36.6

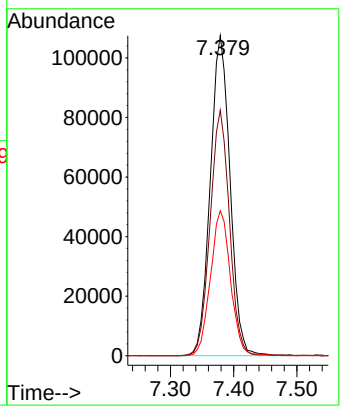




#39
Methylcyclohexane
Concen: 52.093 ug/l
RT: 7.379 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 83 Resp: 23301

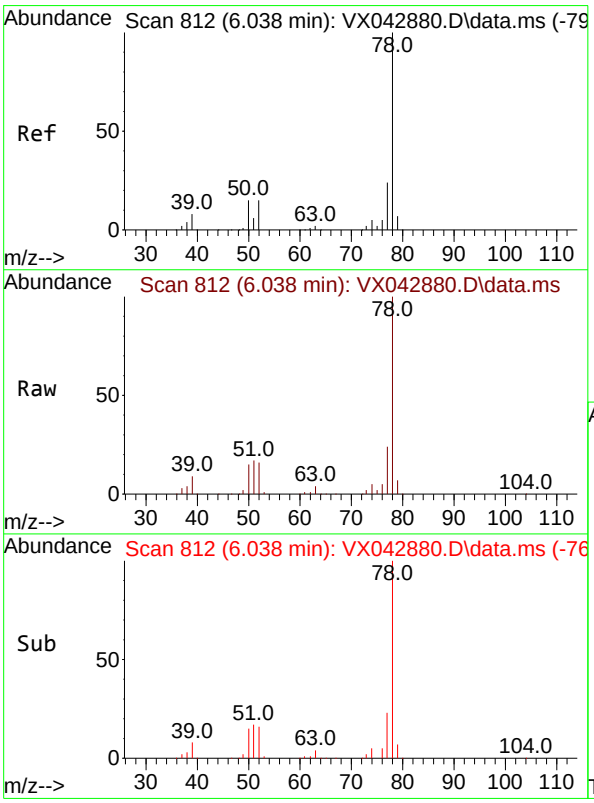
Ion	Ratio	Lower	Upper
83	100		
55	76.8	64.6	97.0
98	45.3	36.7	55.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

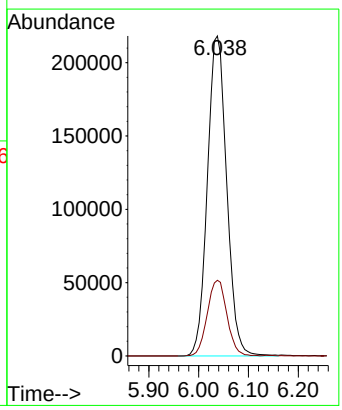
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

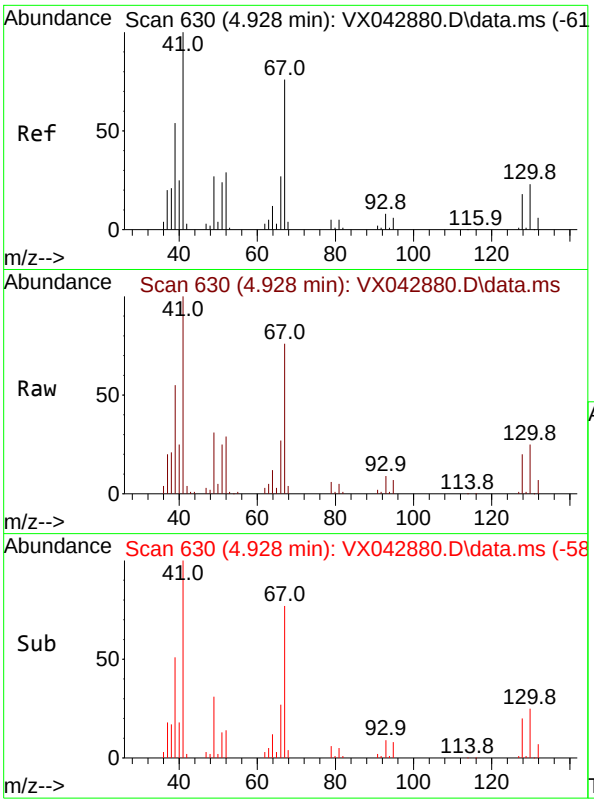


#40
Benzene
Concen: 50.299 ug/l
RT: 6.038 min Scan# 812
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 78 Resp: 587380

Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.3	28.9

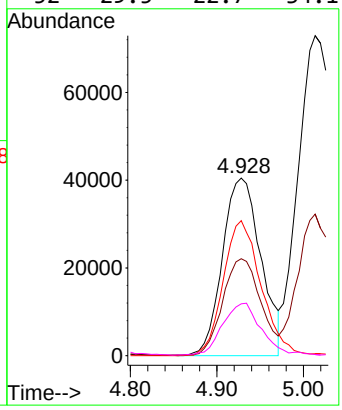




#41
Methacrylonitrile
Concen: 51.567 ug/l
RT: 4.928 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 41 Resp: 12503

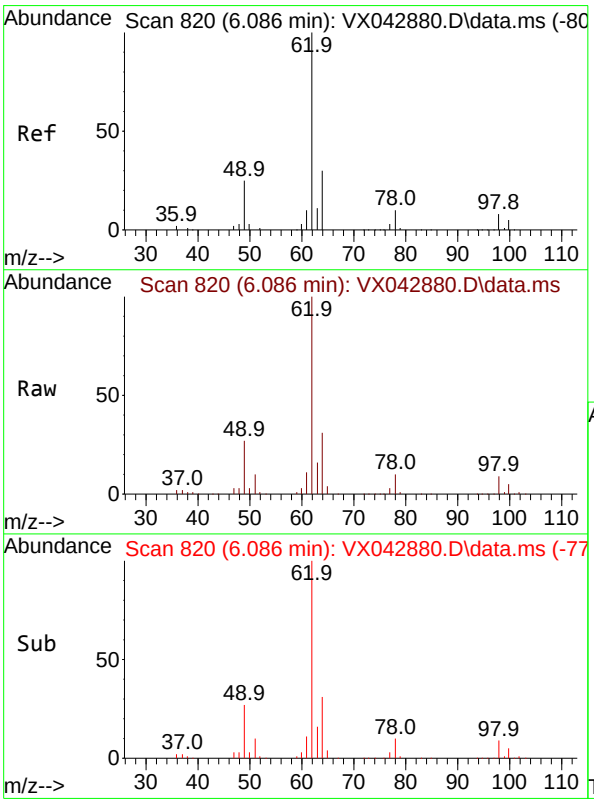
Ion	Ratio	Lower	Upper
41	100		
39	53.7	45.2	67.8
67	75.1	52.6	78.8
52	29.5	22.7	34.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

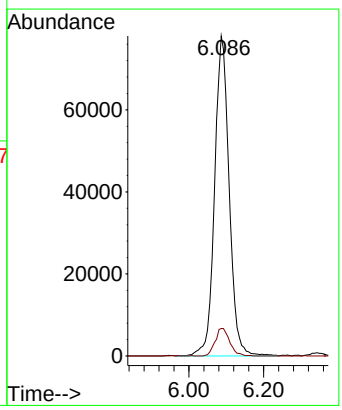
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

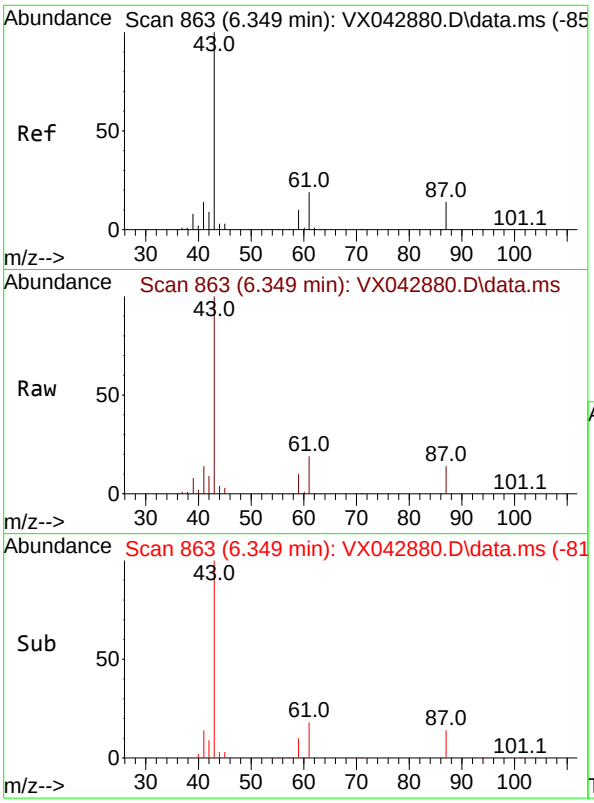


#42
1,2-Dichloroethane
Concen: 49.693 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 62 Resp: 211079

Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	16.0

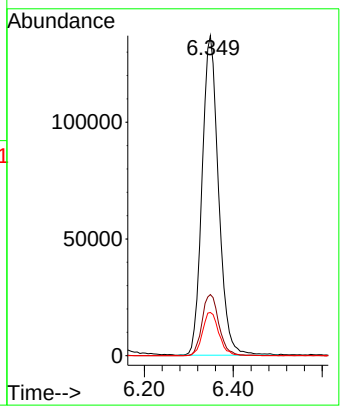




#43
Isopropyl Acetate
Concen: 50.750 ug/l
RT: 6.349 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 43 Resp: 35334

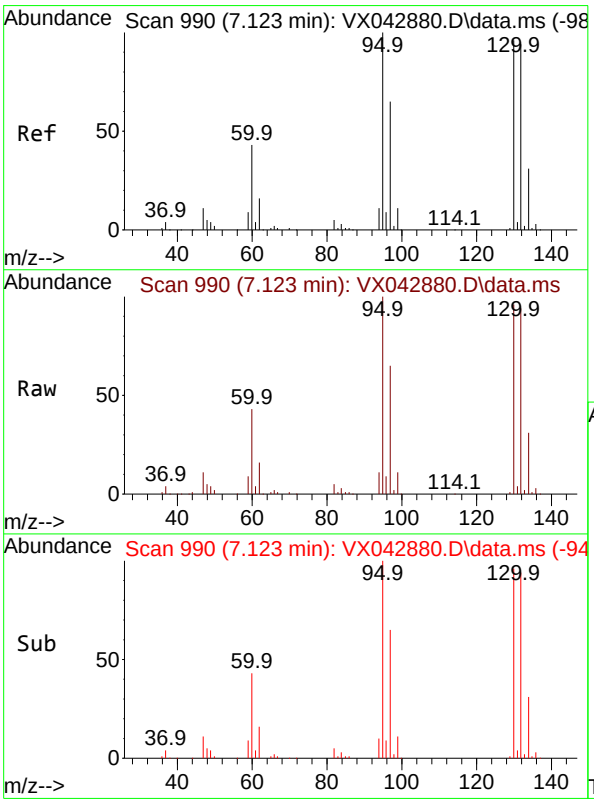
Ion	Ratio	Lower	Upper
43	100		
61	19.7	15.2	22.8
87	13.6	9.8	14.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

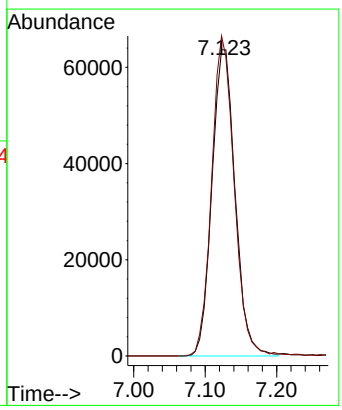
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

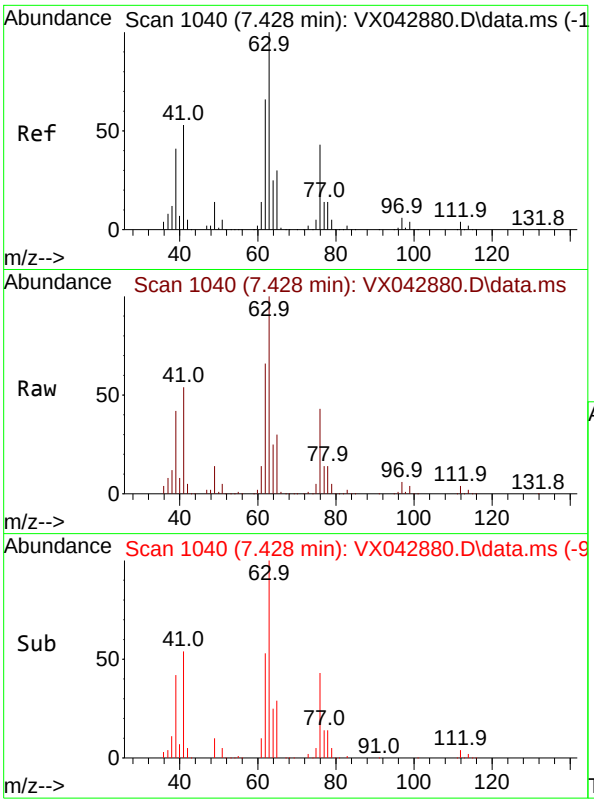


#44
Trichloroethene
Concen: 48.953 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion:130 Resp: 143642

Ion	Ratio	Lower	Upper
130	100		
95	104.5	0.0	204.4





#45
1,2-Dichloropropane
Concen: 49.689 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

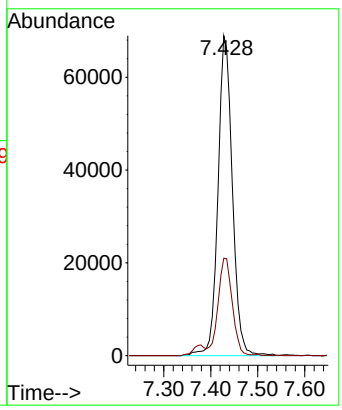
Tgt Ion: 63 Resp: 14719

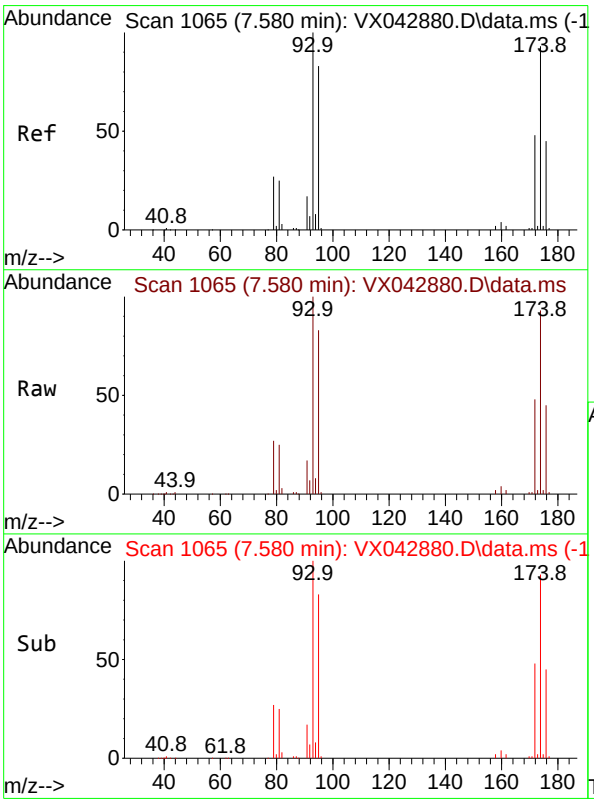
Ion	Ratio	Lower	Upper
63	100		
65	30.5	24.3	36.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

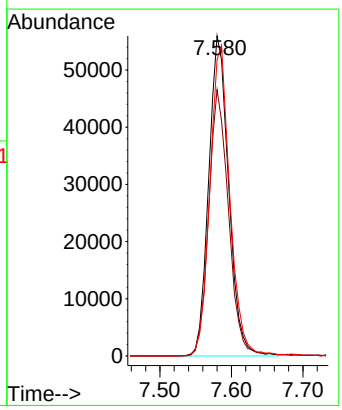


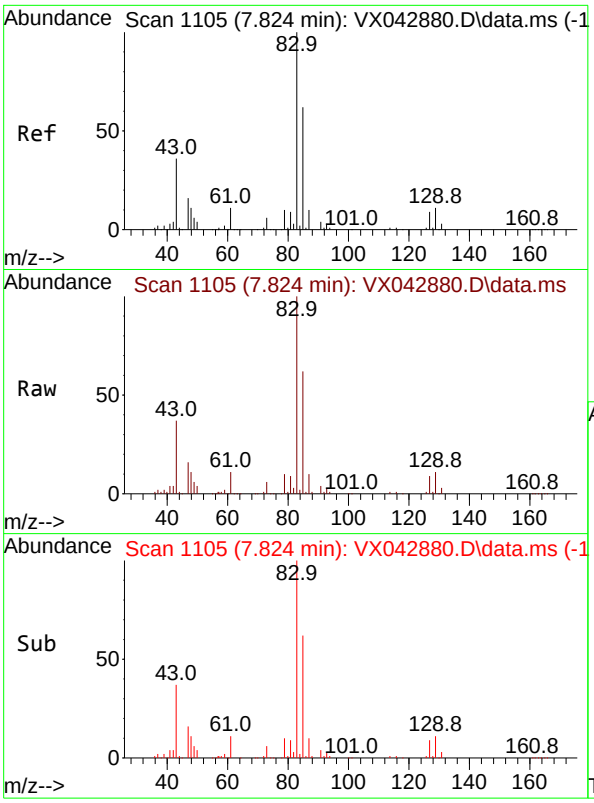


#46
Dibromomethane
Concen: 49.869 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 93 Resp: 108500

Ion	Ratio	Lower	Upper
93	100		
95	82.9	66.6	100.0
174	97.4	69.4	104.0

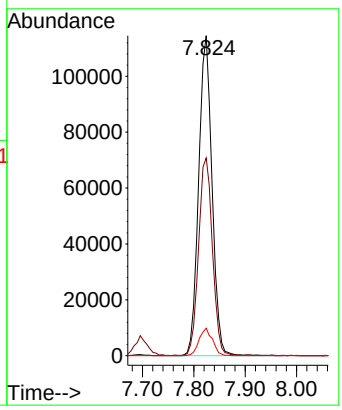




#47
Bromodichloromethane
Concen: 51.119 ug/l
RT: 7.824 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 83 Resp: 20660

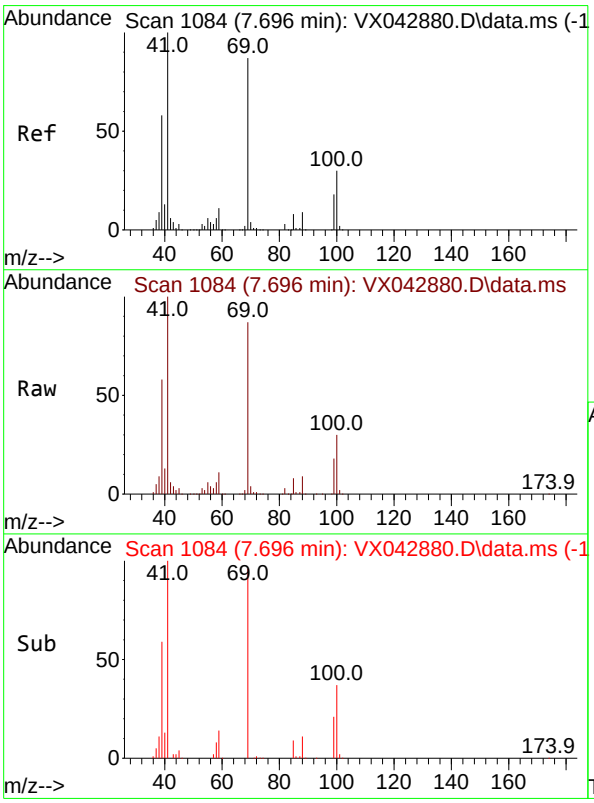
Ion	Ratio	Lower	Upper
83	100		
85	61.7	49.8	74.6
127	8.6	7.1	10.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

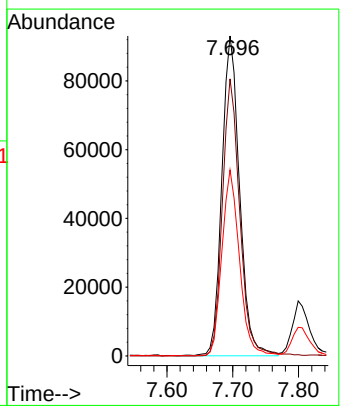
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

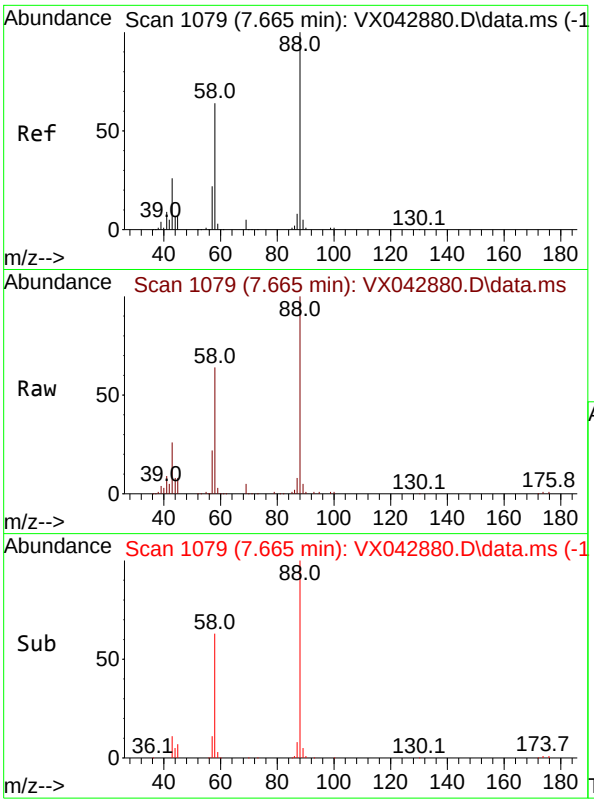


#48
Methyl methacrylate
Concen: 52.270 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 41 Resp: 174505

Ion	Ratio	Lower	Upper
41	100		
69	85.1	59.2	88.8
39	57.5	47.7	71.5

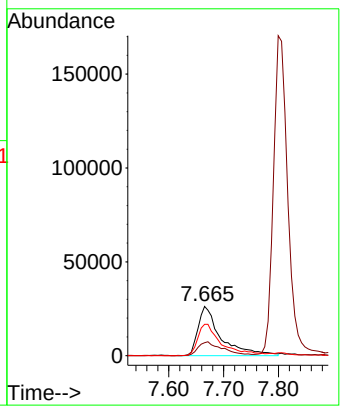




#49
1,4-Dioxane
Concen: 988.943 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 88 Resp: 7595

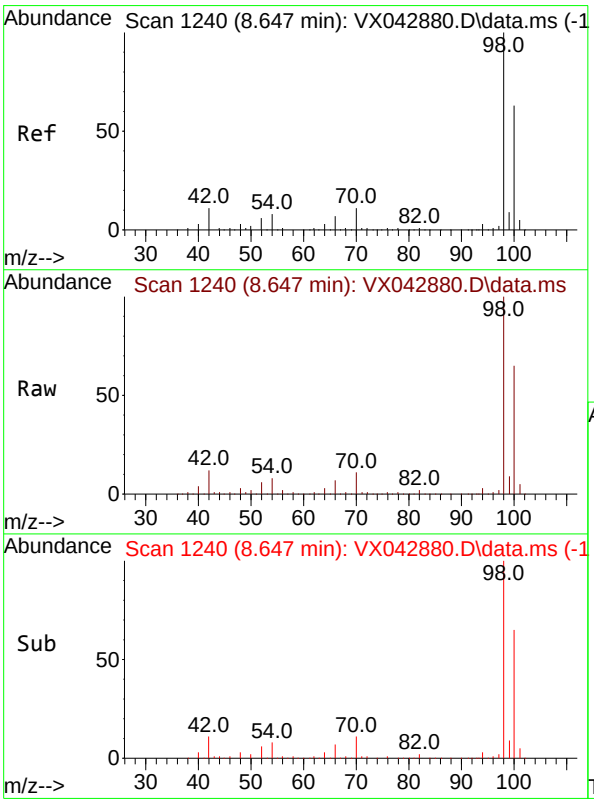
Ion	Ratio	Lower	Upper
88	100		
43	29.8	0.0	0.0
58	65.7	60.1	90.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

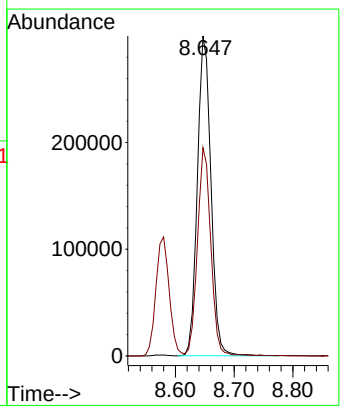
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

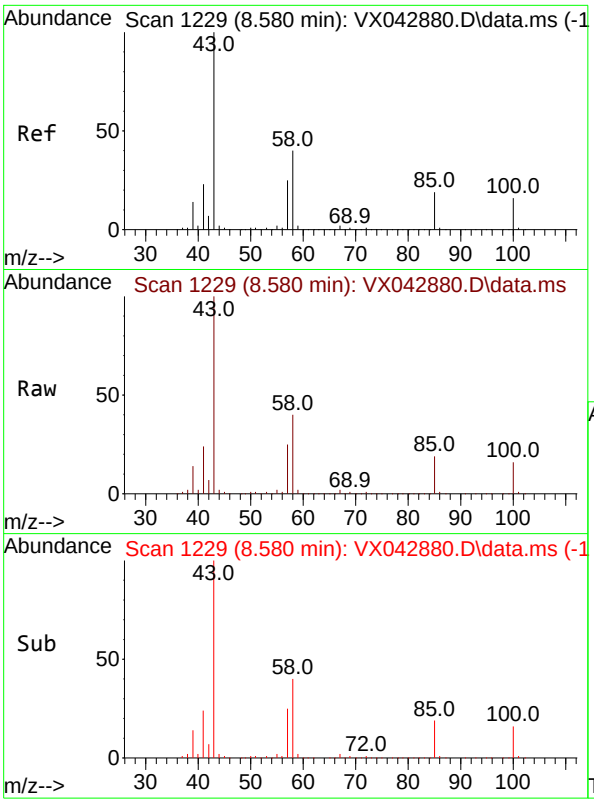


#50
Toluene-d8
Concen: 48.925 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 98 Resp: 482026

Ion	Ratio	Lower	Upper
98	100		
100	63.7	53.1	79.7





#51
4-Methyl-2-Pentanone
Concen: 251.920 ug/l
RT: 8.580 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

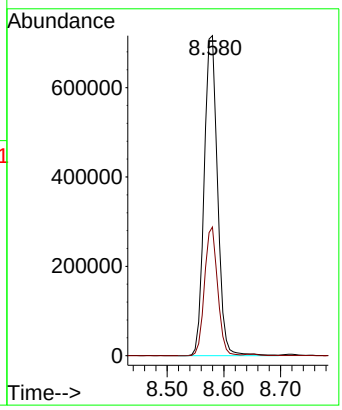
Tgt Ion: 43 Resp: 117487

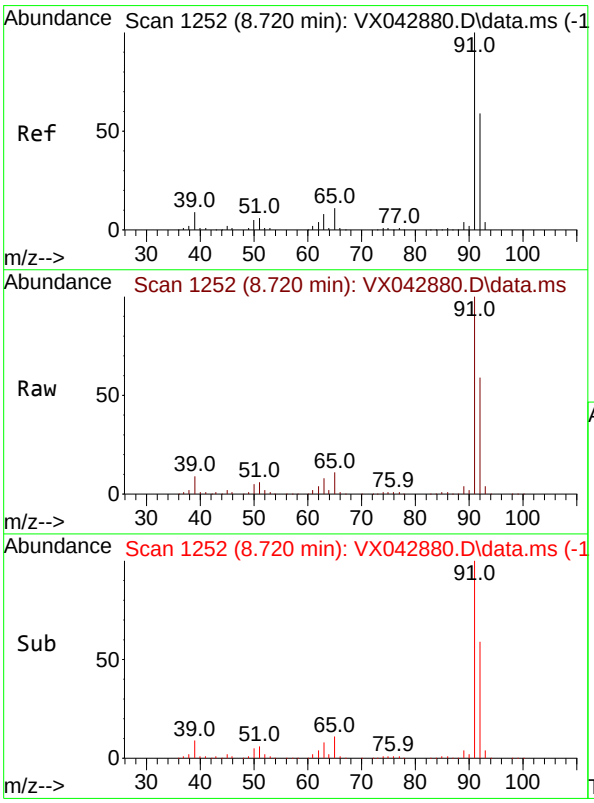
Ion	Ratio	Lower	Upper
43	100		
58	39.3	30.4	45.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

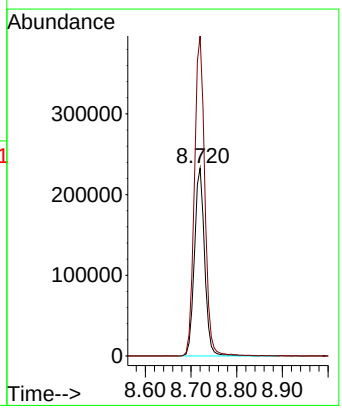


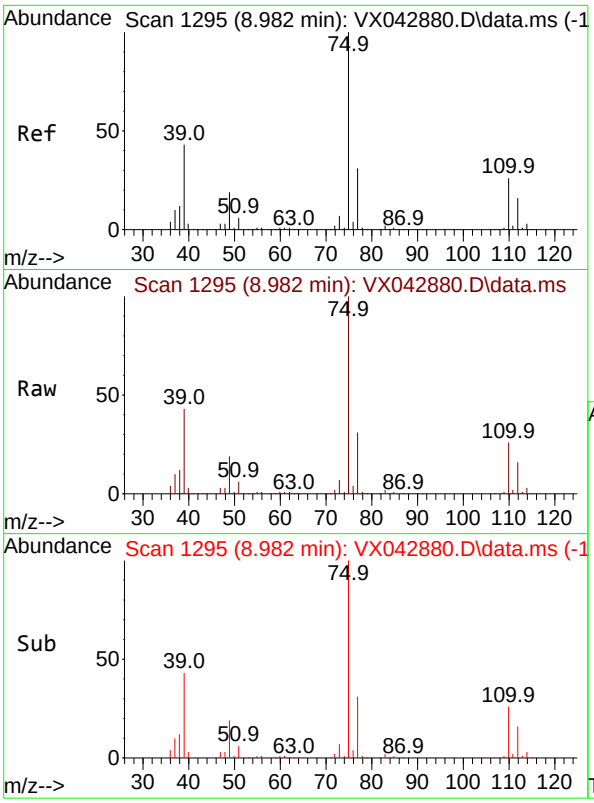


#52
Toluene
Concen: 50.877 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 92 Resp: 360392

Ion	Ratio	Lower	Upper
92	100		
91	174.0	134.2	201.2

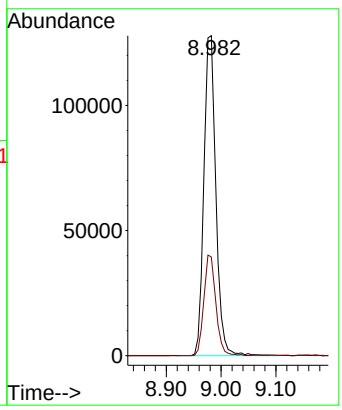




#53
t-1,3-Dichloropropene
Concen: 51.871 ug/l
RT: 8.982 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 75 Resp: 19379

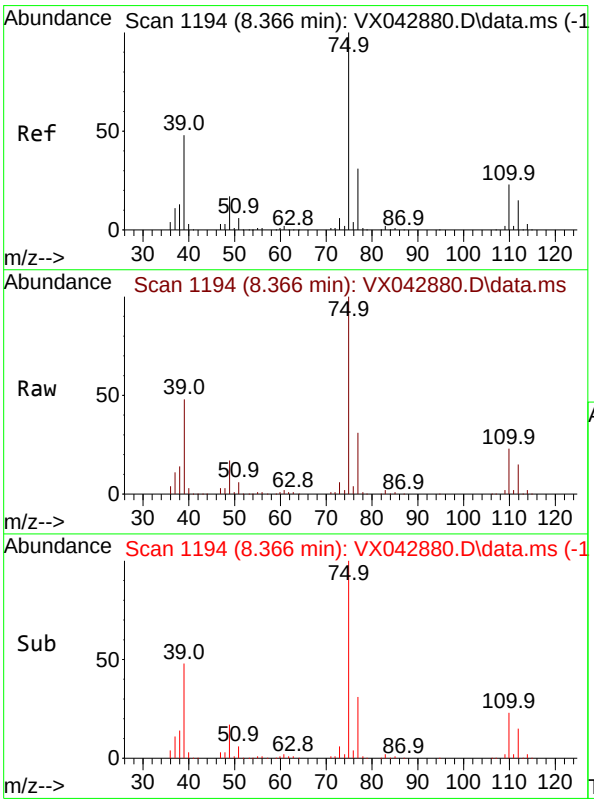
Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

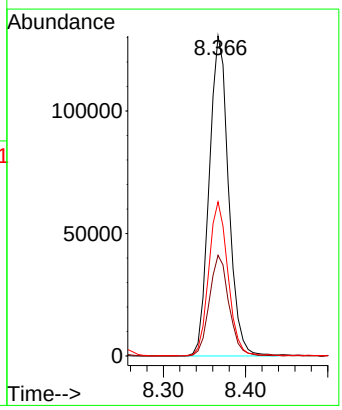
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

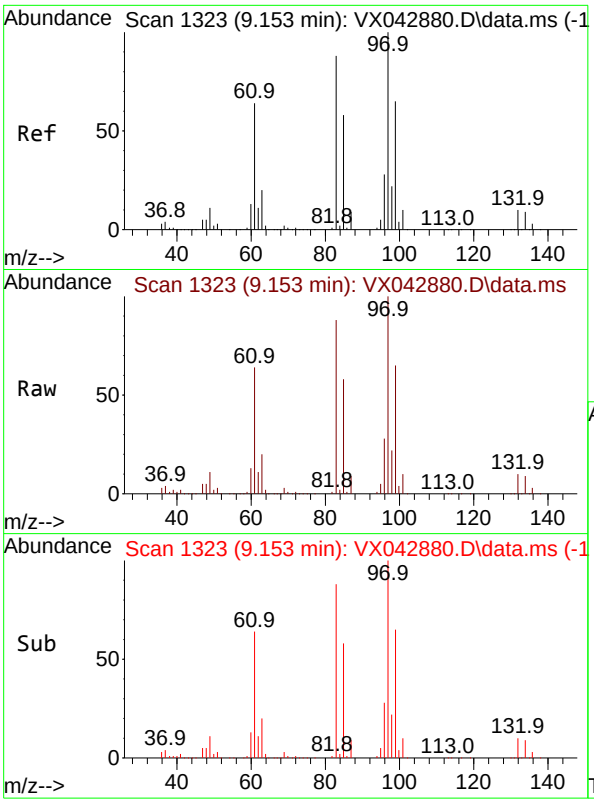


#54
cis-1,3-Dichloropropene
Concen: 51.742 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 75 Resp: 213498

Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.3	37.9
39	48.0	46.7	70.1

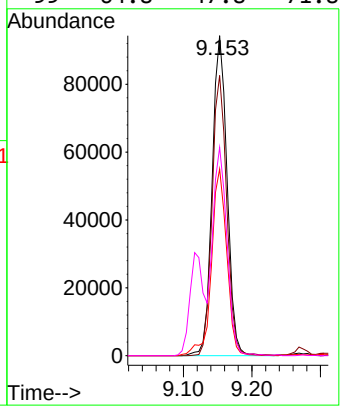




#55
1,1,2-Trichloroethane
Concen: 49.504 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 97 Resp: 14255

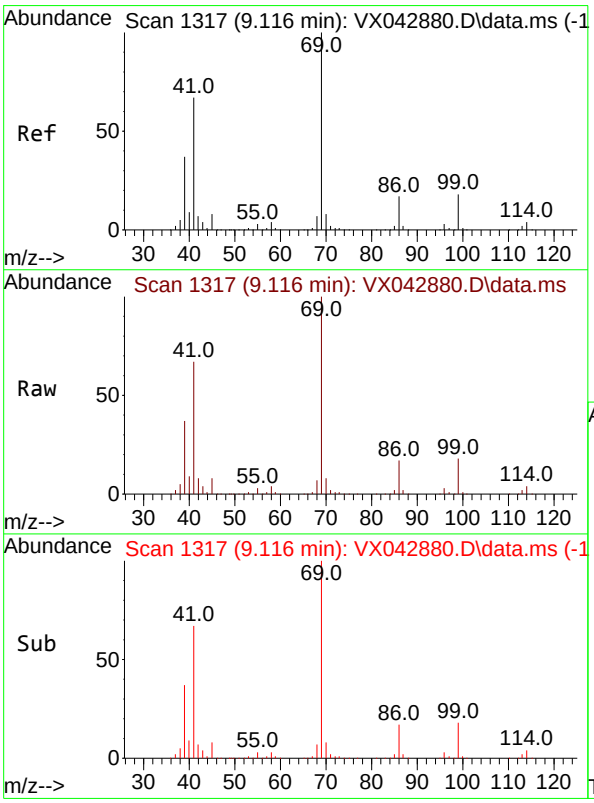
Ion	Ratio	Lower	Upper
97	100		
83	87.6	65.8	98.8
85	58.4	41.6	62.4
99	64.8	47.8	71.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

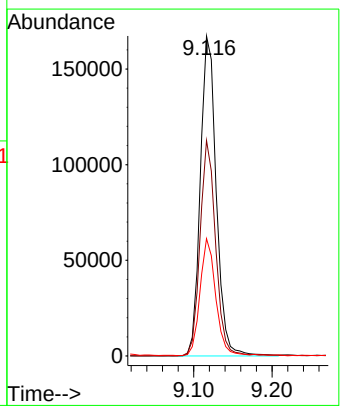
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

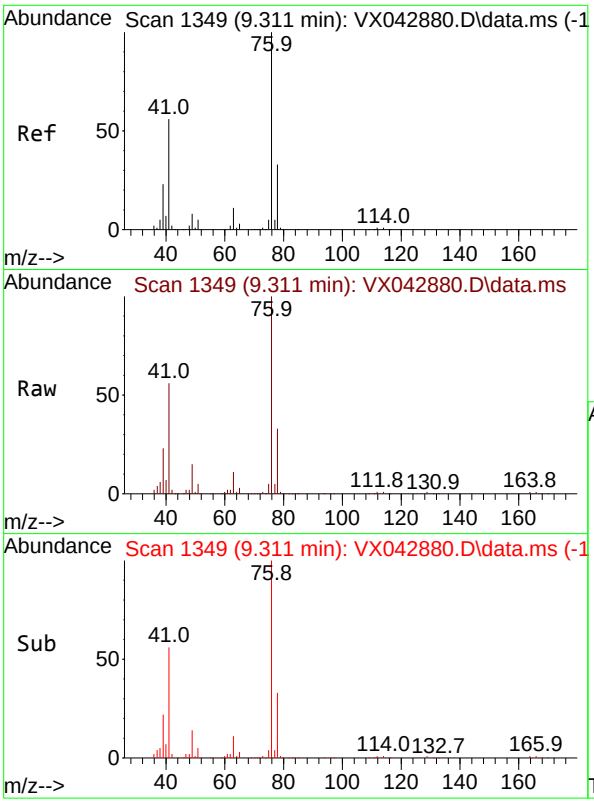


#56
Ethyl methacrylate
Concen: 51.135 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 69 Resp: 236953

Ion	Ratio	Lower	Upper
69	100		
41	65.7	56.8	85.2
39	36.4	32.0	48.0

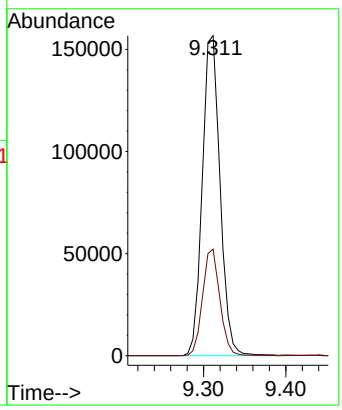




#57
1,3-Dichloropropane
Concen: 49.869 ug/l
RT: 9.311 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 76 Resp: 23525

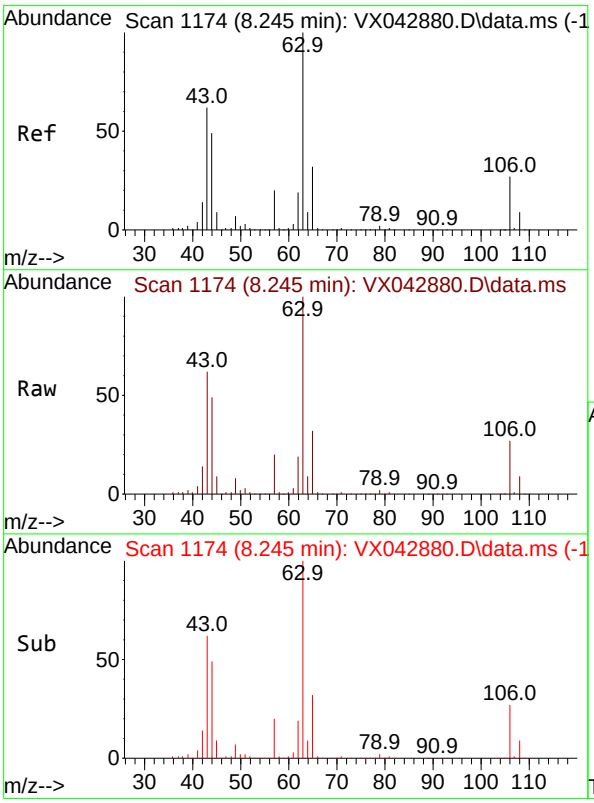
Ion	Ratio	Lower	Upper
76	100		
78	32.5	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

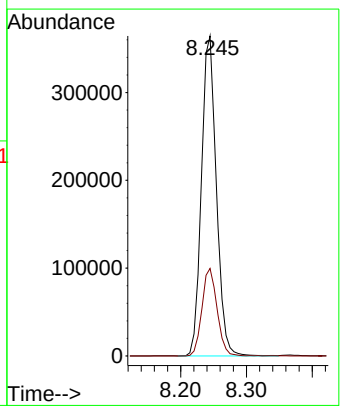
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

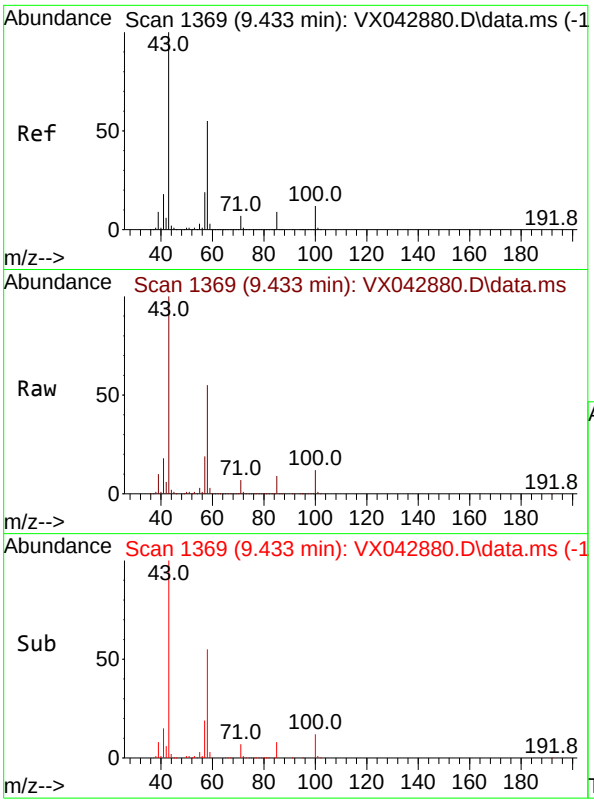


#58
2-Chloroethyl Vinyl ether
Concen: 263.032 ug/l
RT: 8.245 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 63 Resp: 574465

Ion	Ratio	Lower	Upper
63	100		
106	27.8	22.5	33.7





#59
2-Hexanone
Concen: 251.528 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

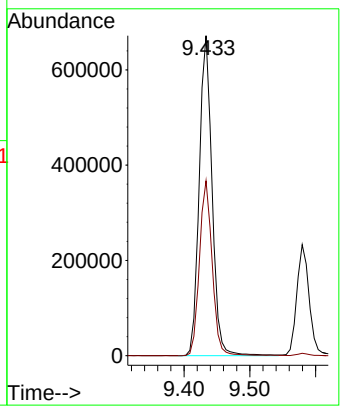
Tgt Ion: 43 Resp: 90896

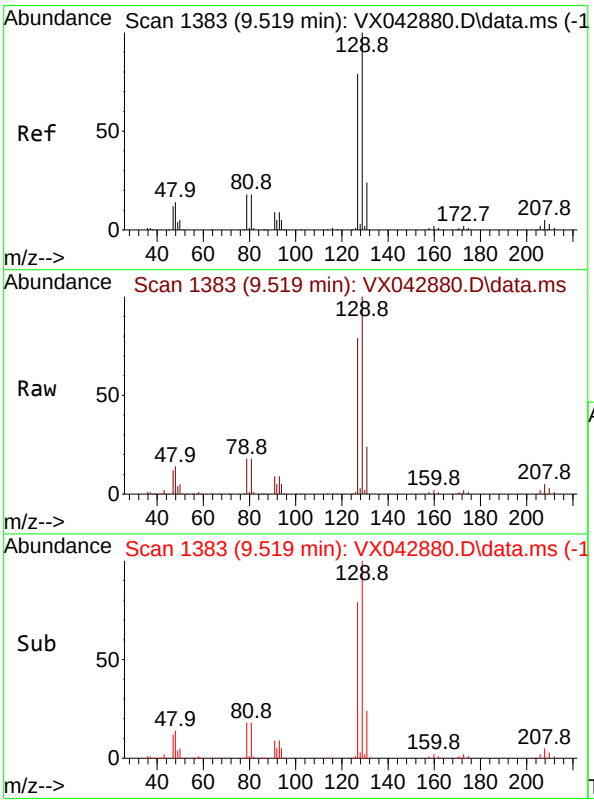
Ion	Ratio	Lower	Upper
43	100		
58	54.5	26.2	78.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

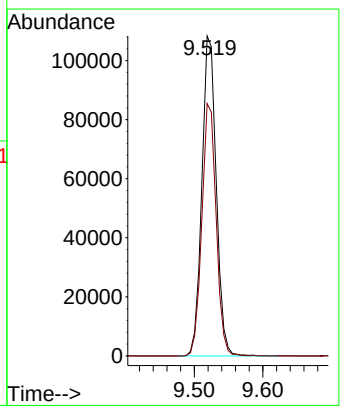


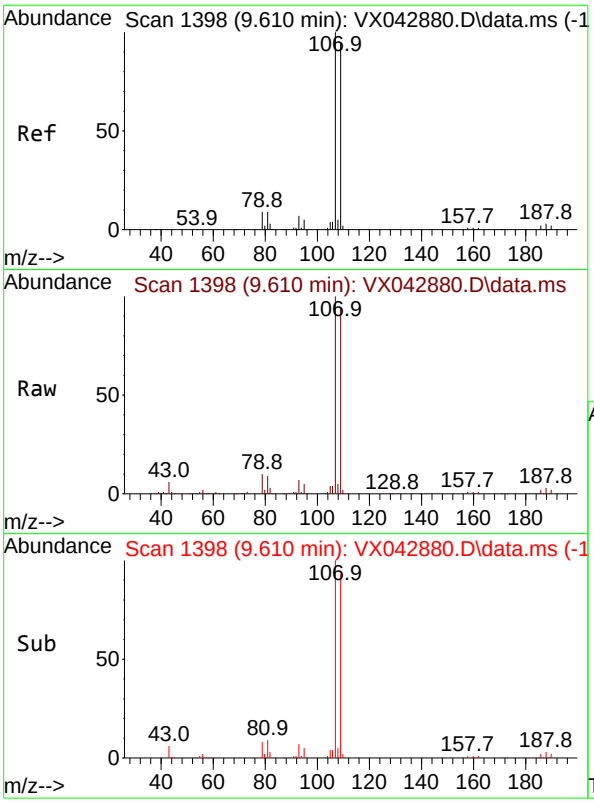


#60
Dibromochloromethane
Concen: 49.958 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion:129 Resp: 158037

Ion	Ratio	Lower	Upper
129	100		
127	78.6	38.8	116.4





#61
1,2-Dibromoethane
Concen: 50.089 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

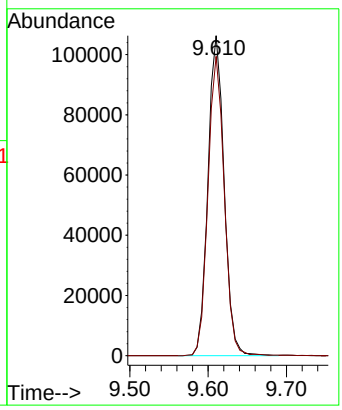
Tgt Ion:107 Resp: 15239

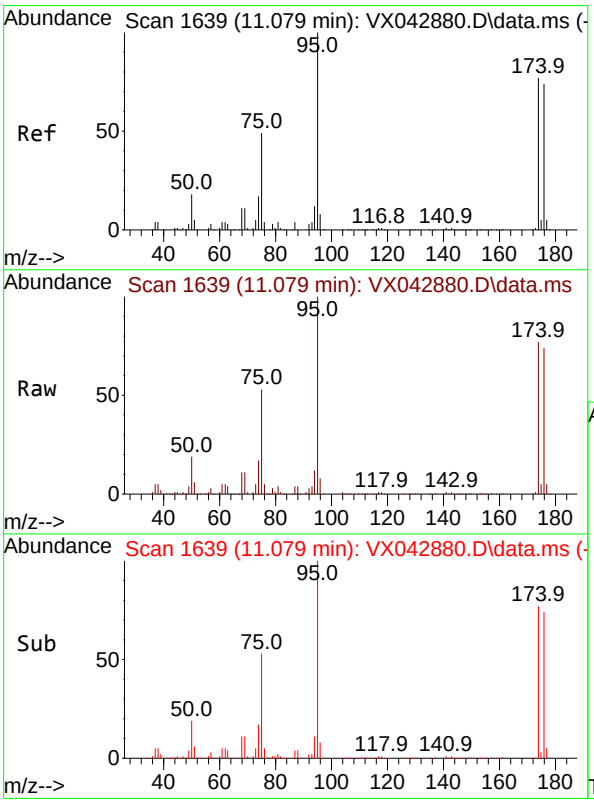
Ion	Ratio	Lower	Upper
107	100		
109	94.0	75.2	112.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

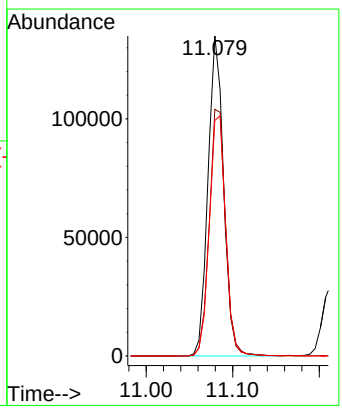


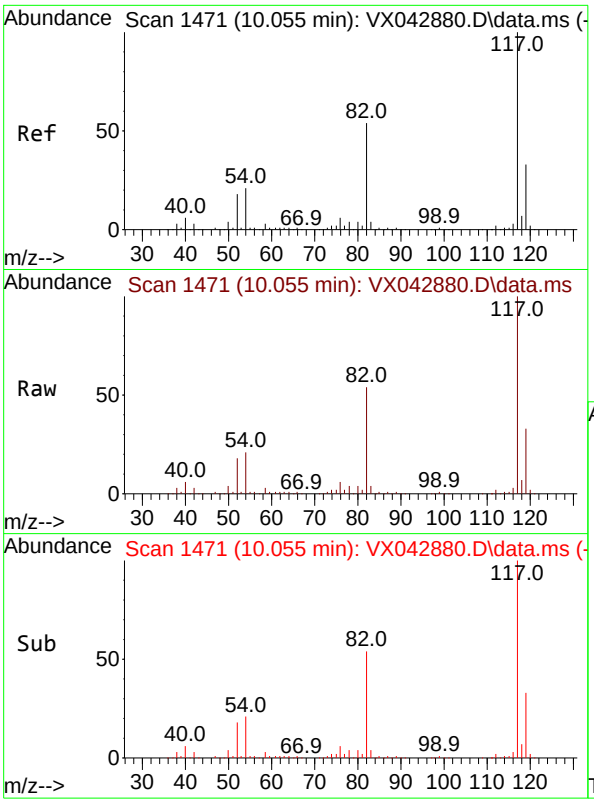


#62
4-Bromofluorobenzene
Concen: 47.704 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 95 Resp: 168890

Ion	Ratio	Lower	Upper
95	100		
174	80.8	0.0	135.6
176	78.5	0.0	131.0

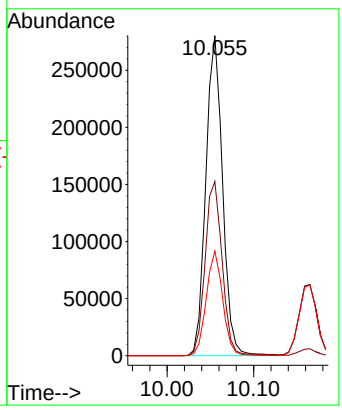




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion:117 Resp: 37632

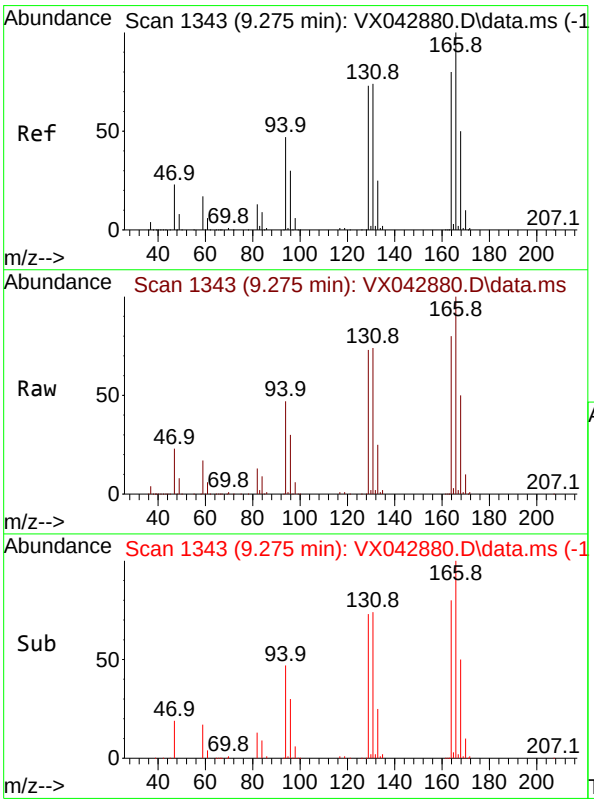
Ion	Ratio	Lower	Upper
117	100		
82	54.4	46.2	69.4
119	32.7	25.5	38.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

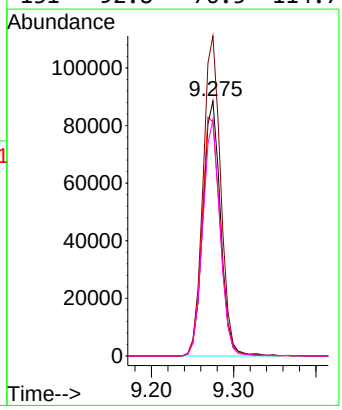
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

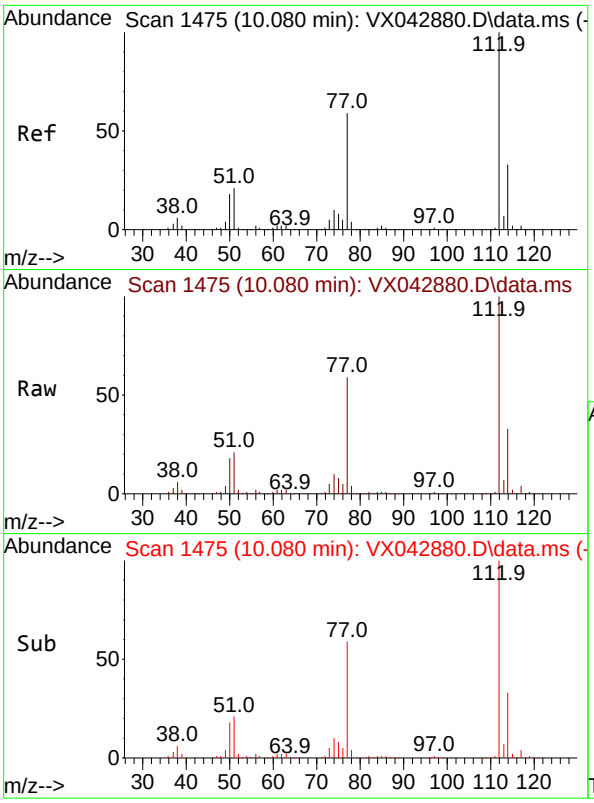


#64
Tetrachloroethene
Concen: 50.092 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion:164 Resp: 131072

Ion	Ratio	Lower	Upper
164	100		
166	125.6	102.7	154.1
129	91.8	80.4	120.6
131	92.8	76.5	114.7





#65
Chlorobenzene
Concen: 48.964 ug/l
RT: 10.080 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

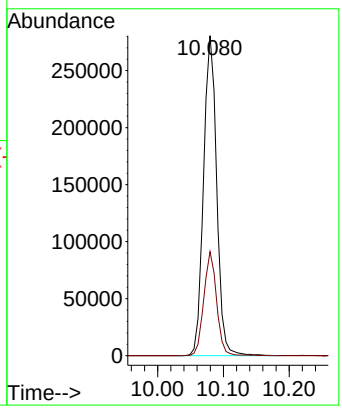
Tgt Ion:112 Resp: 391018

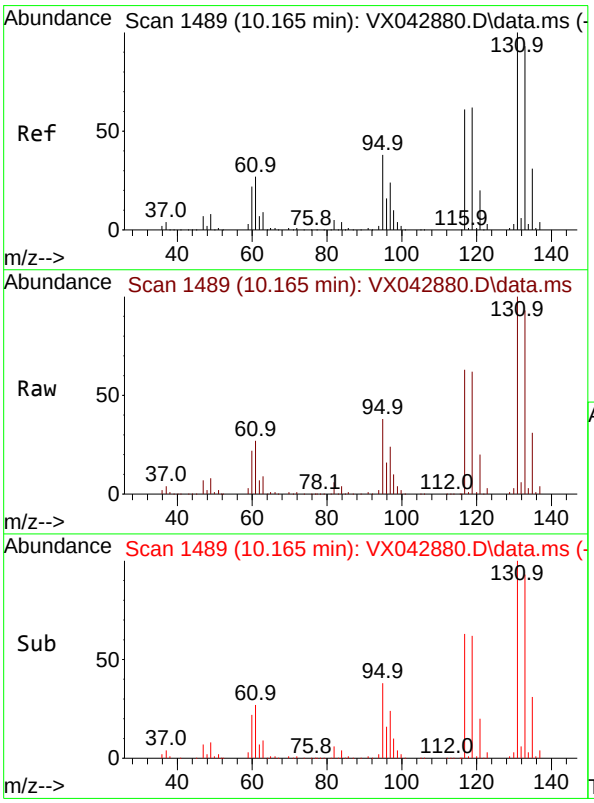
Ion	Ratio	Lower	Upper
112	100		
114	32.5	25.7	38.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

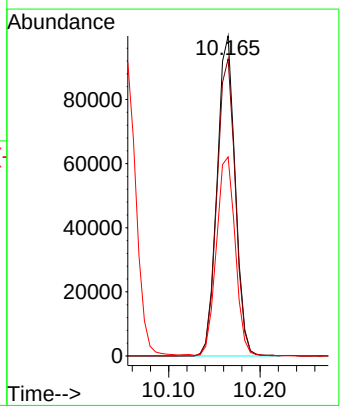


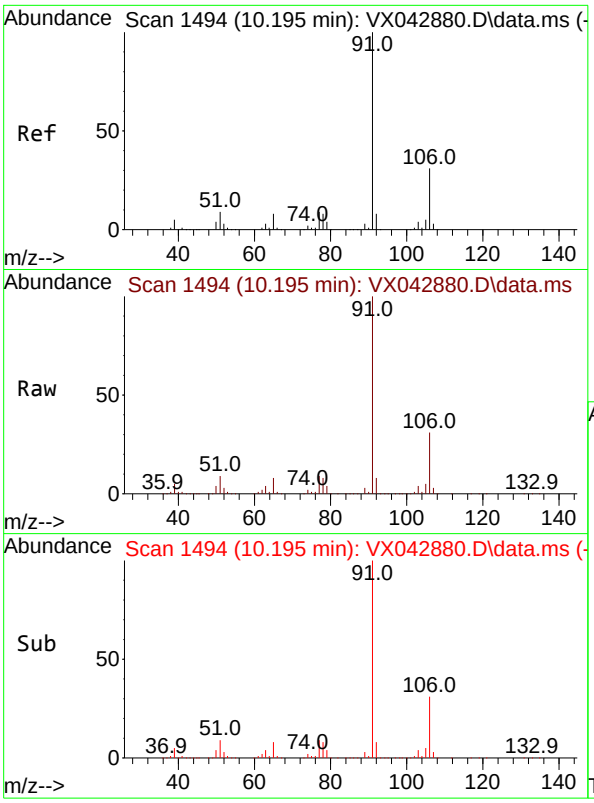


#66
1,1,1,2-Tetrachloroethane
Concen: 49.991 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion:131 Resp: 137657

Ion	Ratio	Lower	Upper
131	100		
133	94.4	47.1	141.4
119	64.4	32.2	96.6





#67
Ethyl Benzene
Concen: 50.606 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

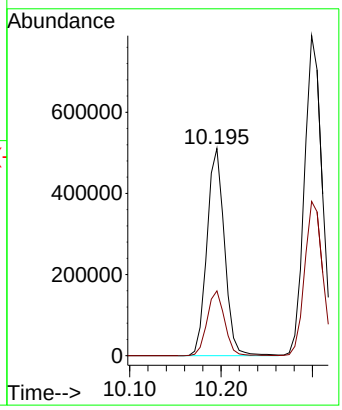
Tgt Ion: 91 Resp: 67978

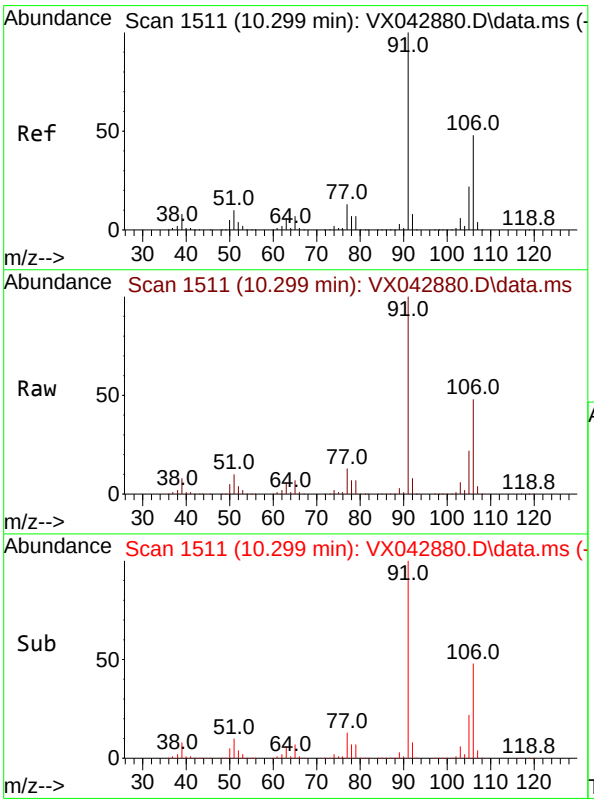
Ion	Ratio	Lower	Upper
91	100		
106	31.3	24.9	37.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

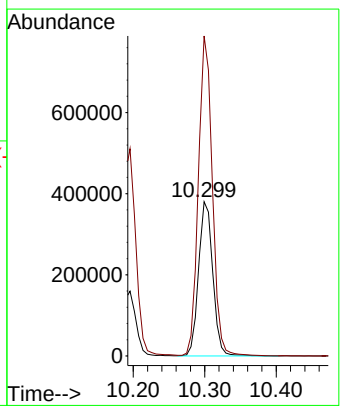


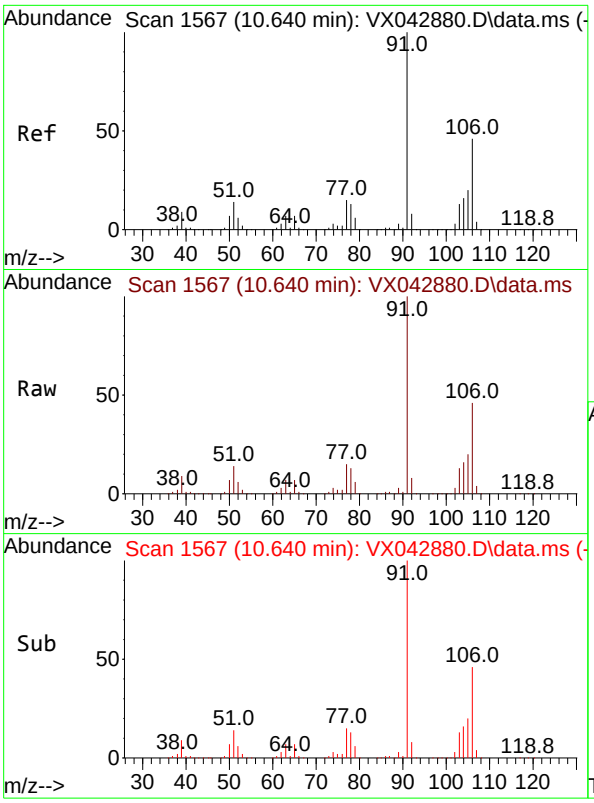


#68
m/p-Xylenes
Concen: 102.222 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion:106 Resp: 524202

Ion	Ratio	Lower	Upper
106	100		
91	204.1	165.5	248.3

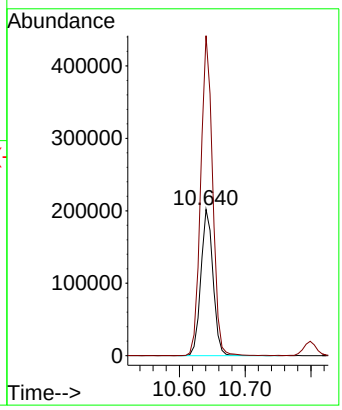




#69
o-Xylene
Concen: 50.359 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion:106 Resp: 25869

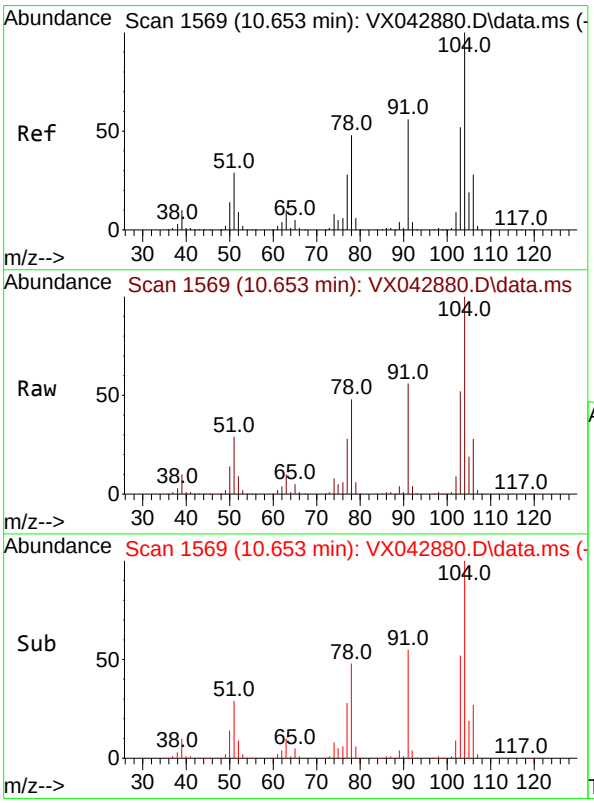
Ion	Ratio	Lower	Upper
106	100		
91	214.9	108.9	326.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

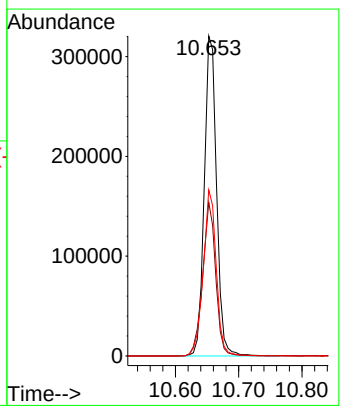
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

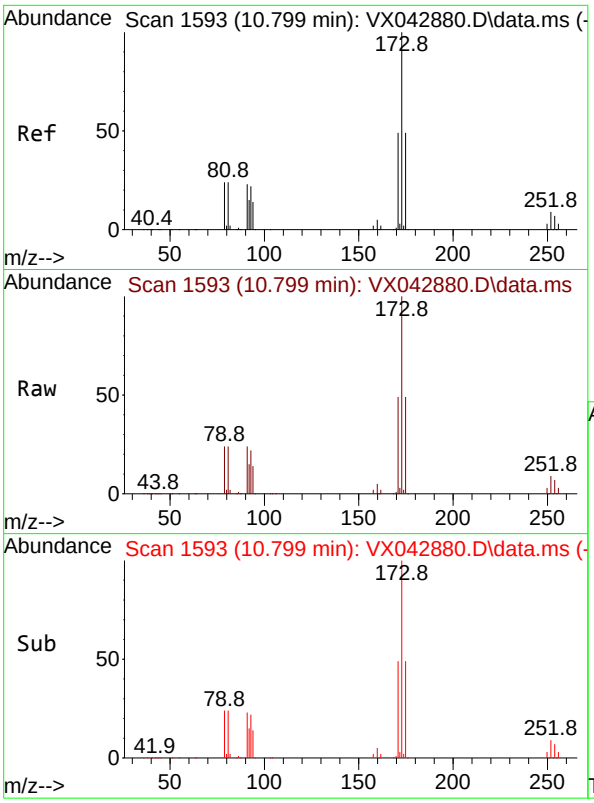


#70
Styrene
Concen: 52.555 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion:104 Resp: 434136

Ion	Ratio	Lower	Upper
104	100		
78	50.9	43.6	65.4
103	55.1	43.6	65.4

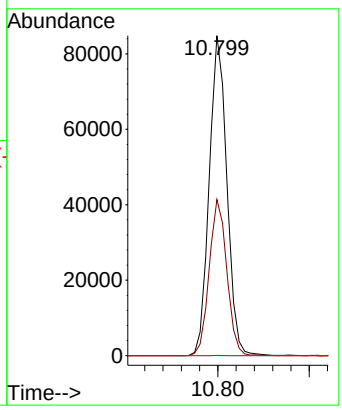




#71
Bromoform
Concen: 48.675 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion:173 Resp: 11342

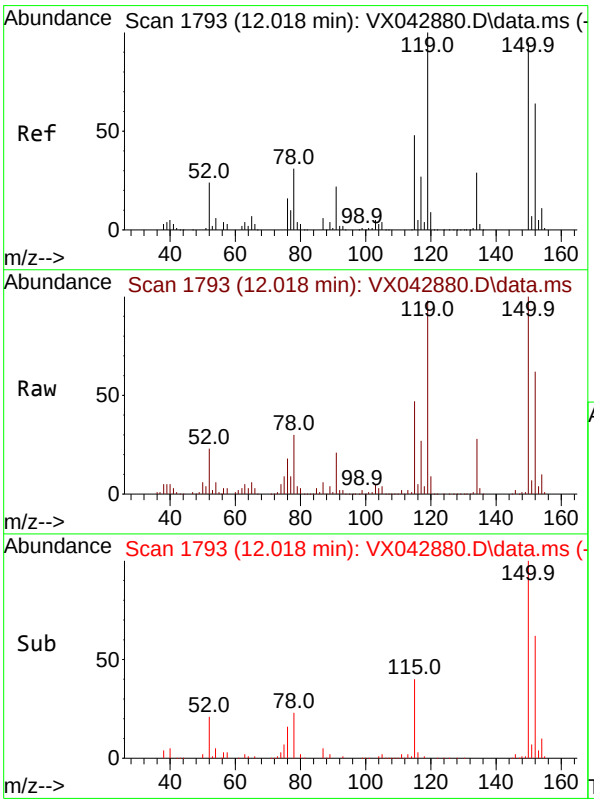
Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.1	72.4
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

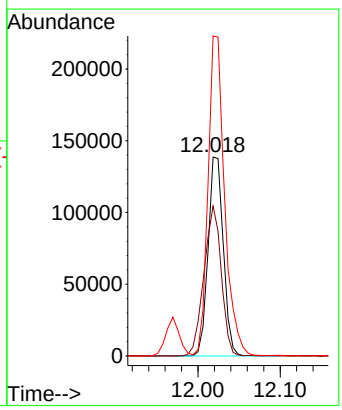
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

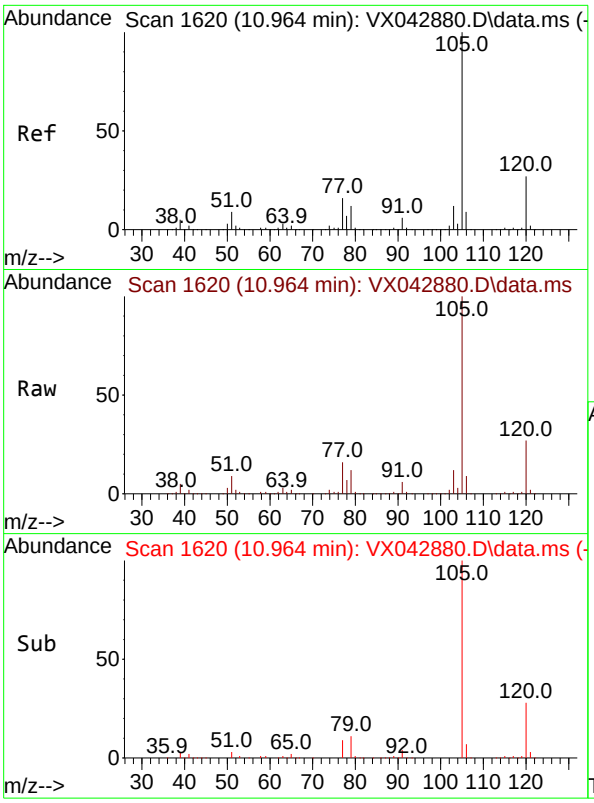


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion:152 Resp: 178191

Ion	Ratio	Lower	Upper
152	100		
115	86.1	43.3	129.9
150	174.5	0.0	345.0

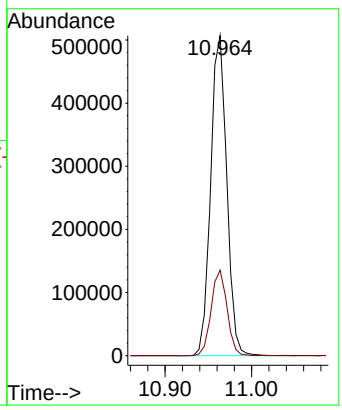




#73
Isopropylbenzene
Concen: 50.806 ug/l
RT: 10.964 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion:105 Resp: 65453

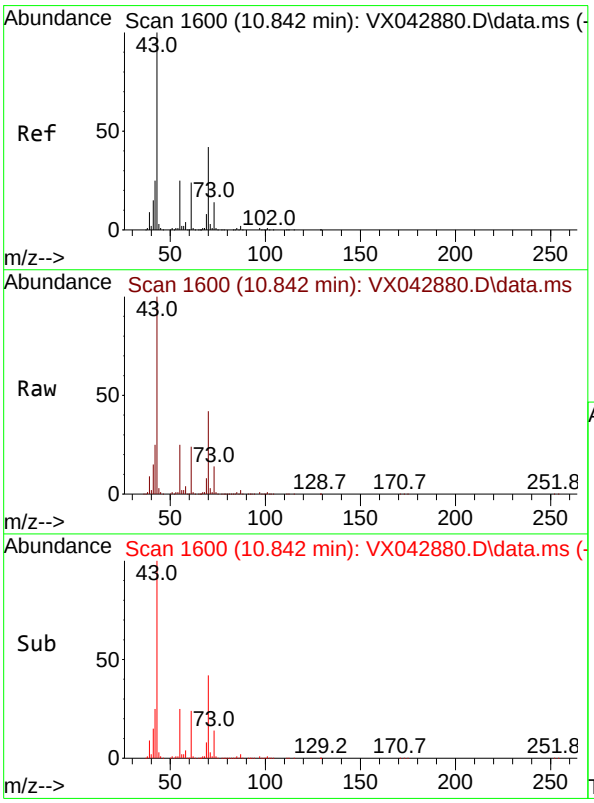
Ion	Ratio	Lower	Upper
105	100		
120	26.3	12.9	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

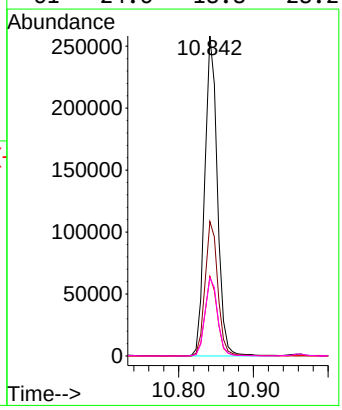
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

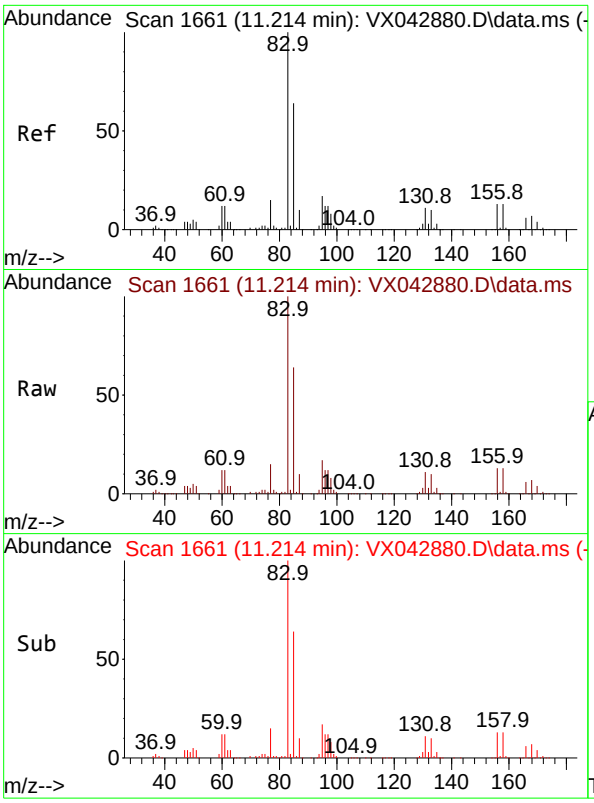


#74
N-amyl acetate
Concen: 52.077 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 43 Resp: 301881

Ion	Ratio	Lower	Upper
43	100		
70	42.7	32.9	49.3
55	24.4	19.3	28.9
61	24.6	18.8	28.2





#75
1,1,2,2-Tetrachloroethane
Concen: 48.108 ug/l
RT: 11.214 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

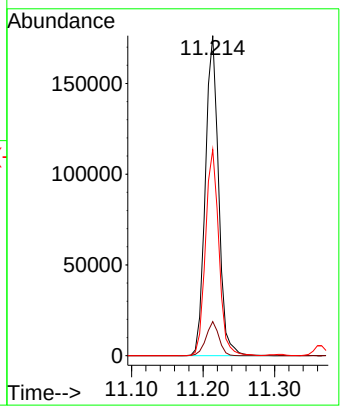
Tgt Ion: 83 Resp: 22704

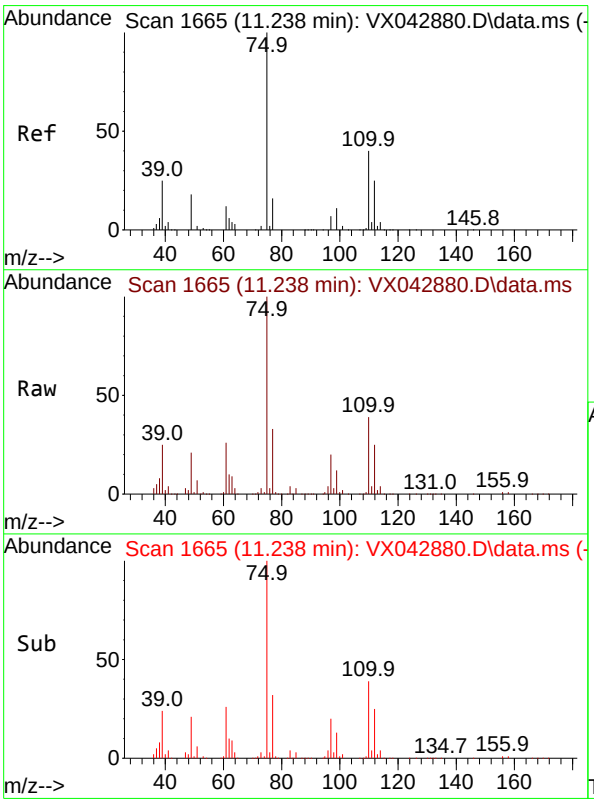
Ion	Ratio	Lower	Upper
83	100		
131	10.4	5.3	15.8
85	65.1	32.0	96.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

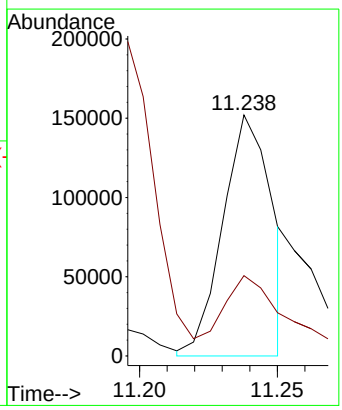


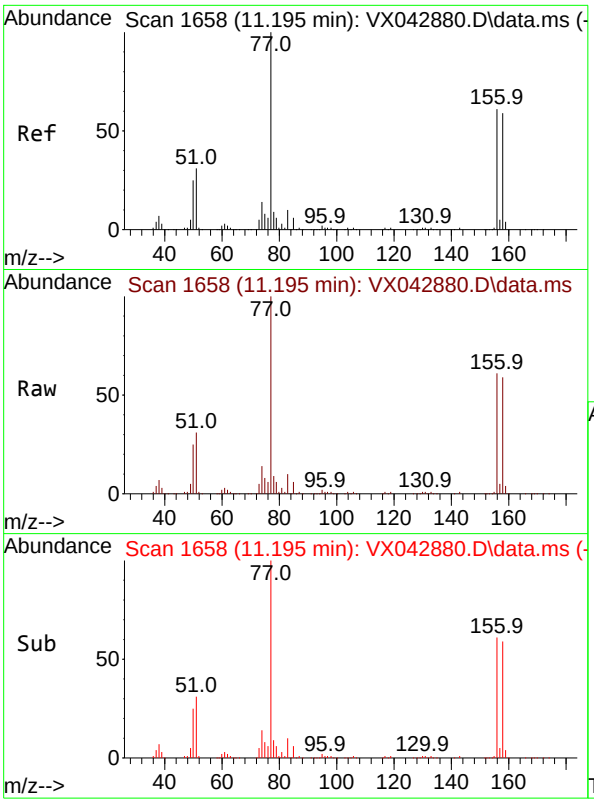


#76
1,2,3-Trichloropropane
Concen: 48.010 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 75 Resp: 187659

Ion	Ratio	Lower	Upper
75	100		
77	44.0	19.1	57.5





#77
Bromobenzene
Concen: 49.875 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

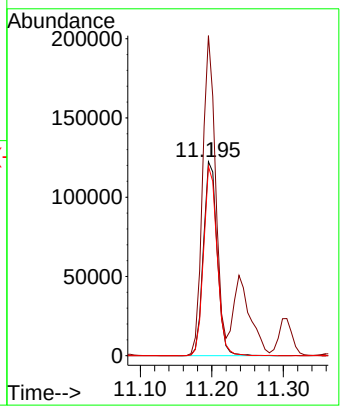
Tgt Ion:156 Resp: 16344

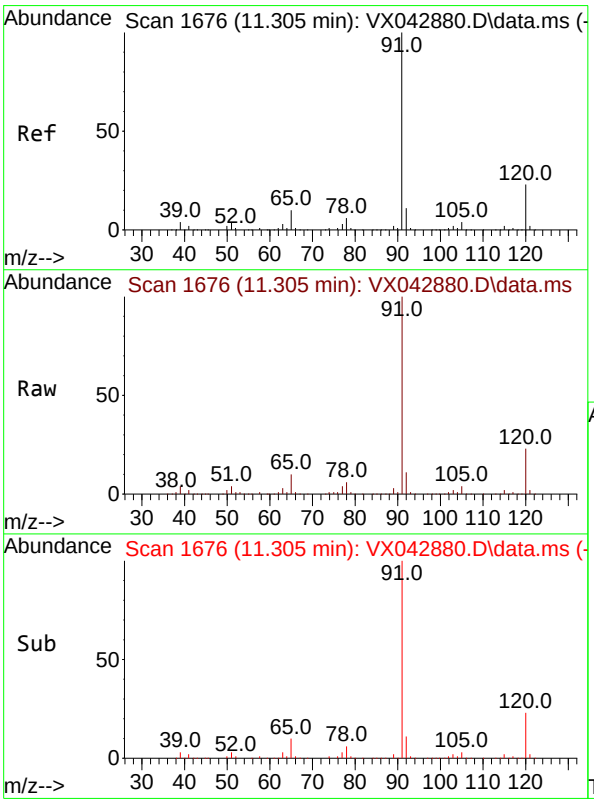
Ion	Ratio	Lower	Upper
156	100		
77	155.9	88.4	265.3
158	96.2	48.0	144.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

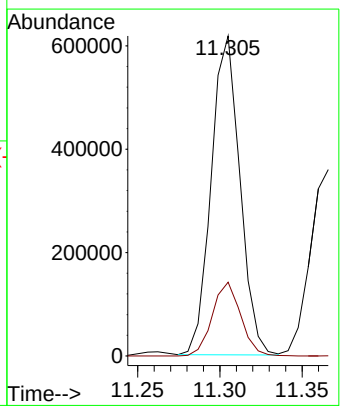


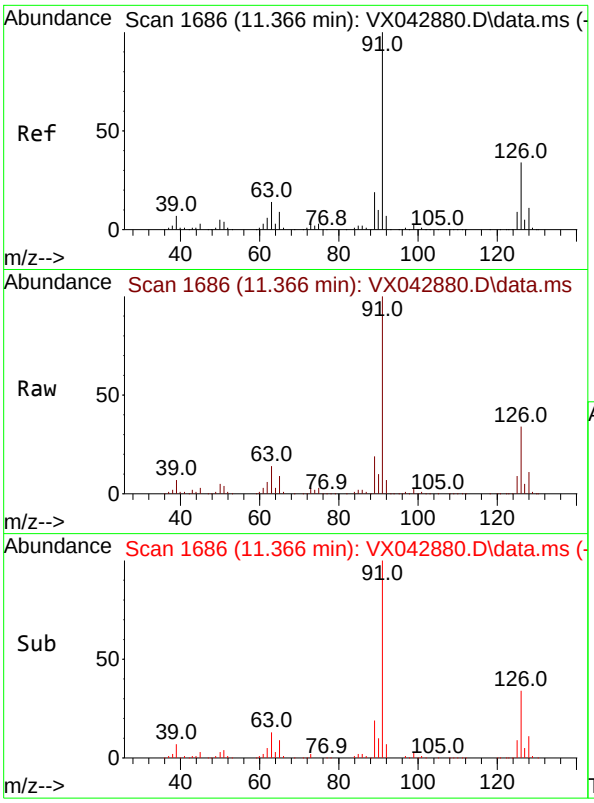


#78
n-propylbenzene
Concen: 52.450 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 91 Resp: 750582

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.5	34.4





#79
2-Chlorotoluene
Concen: 49.939 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

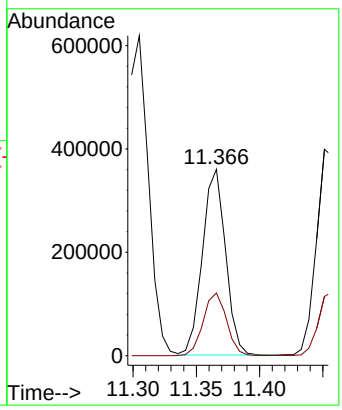
Tgt Ion: 91 Resp: 45804

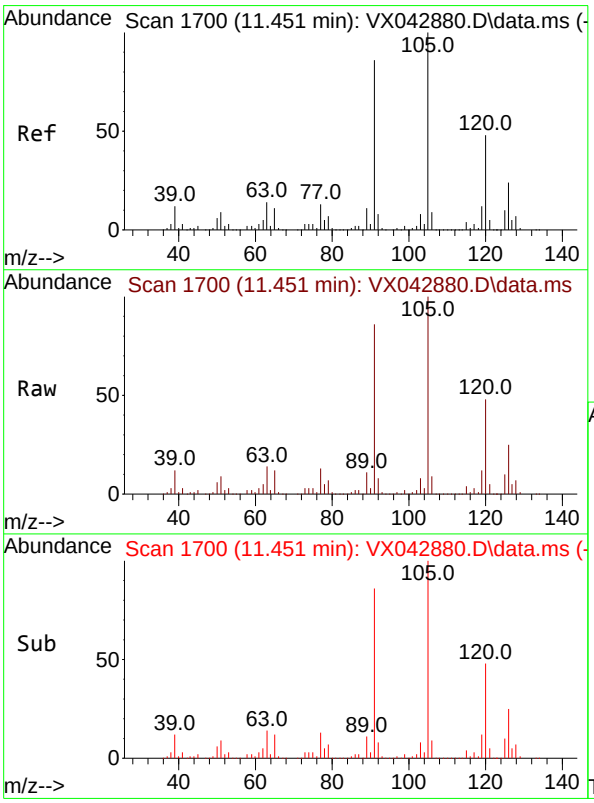
Ion	Ratio	Lower	Upper
91	100		
126	34.1	16.3	48.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

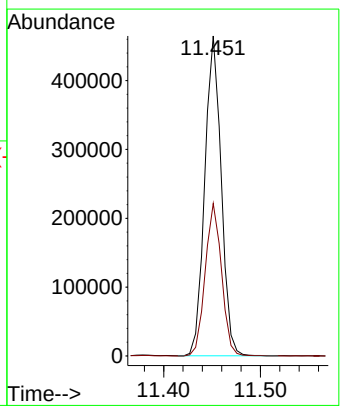


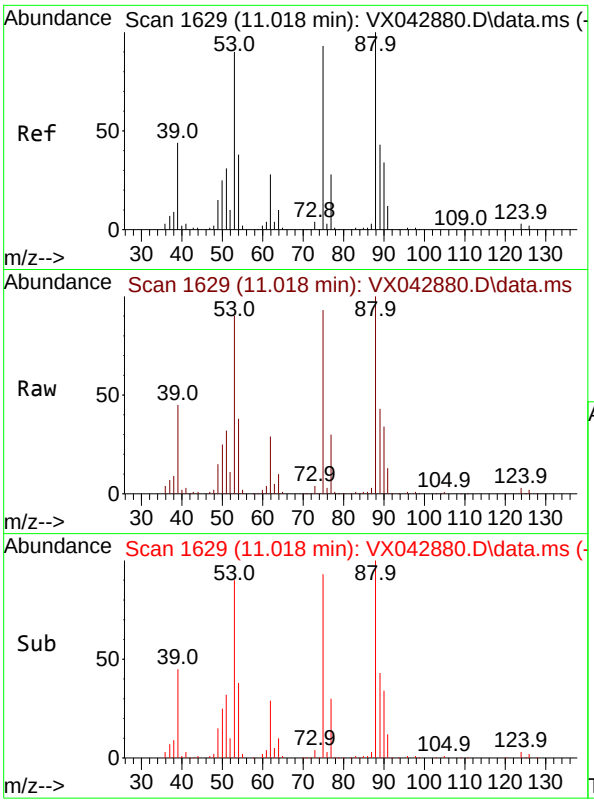


#80
1,3,5-Trimethylbenzene
Concen: 51.658 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion:105 Resp: 551055

Ion	Ratio	Lower	Upper
105	100		
120	47.4	24.1	72.3





#81
trans-1,4-Dichloro-2-butene
Concen: 52.018 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

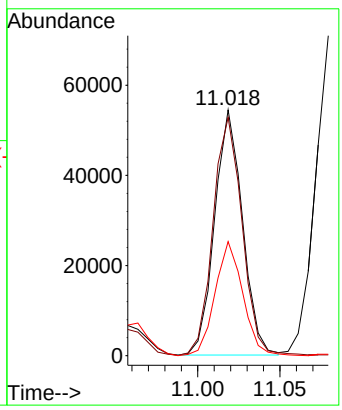
Tgt Ion: 75 Resp: 6411

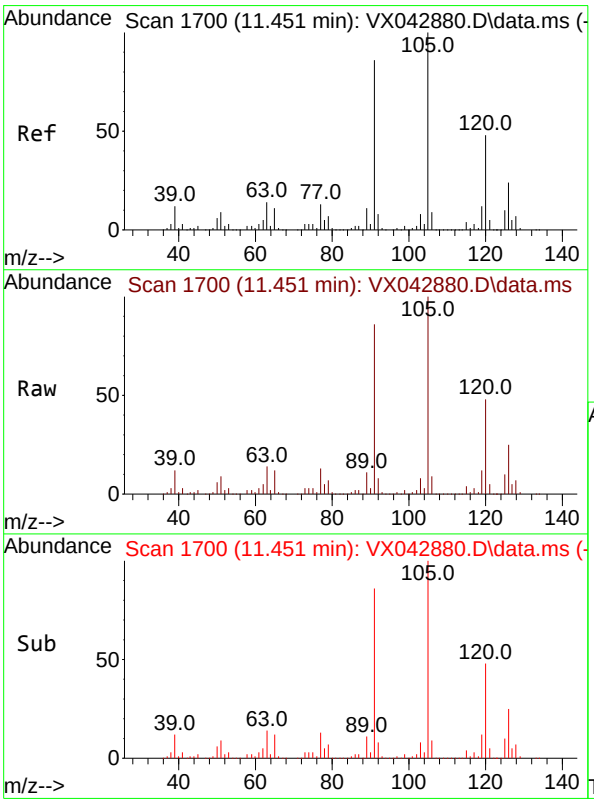
Ion	Ratio	Lower	Upper
75	100		
53	102.2	90.5	135.7
89	46.4	36.9	55.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

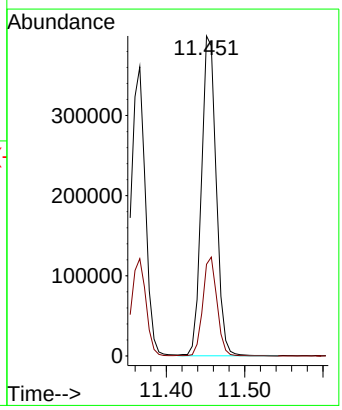


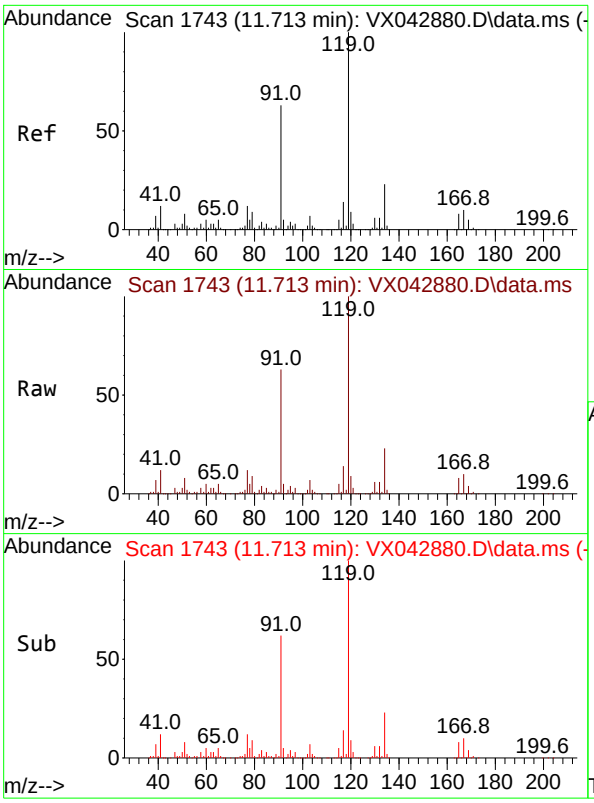


#82
4-Chlorotoluene
Concen: 50.527 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 91 Resp: 520906

Ion	Ratio	Lower	Upper
91	100		
126	29.7	14.2	42.6

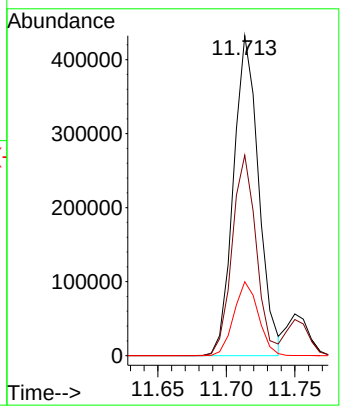




#83
tert-Butylbenzene
Concen: 50.382 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion:119 Resp: 55232

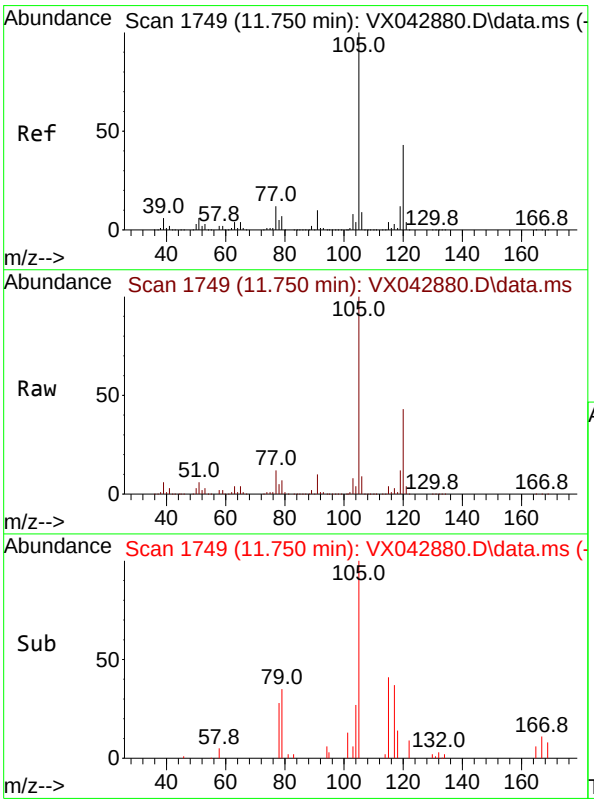
Ion	Ratio	Lower	Upper
119	100		
91	60.3	31.2	93.6
134	22.5	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

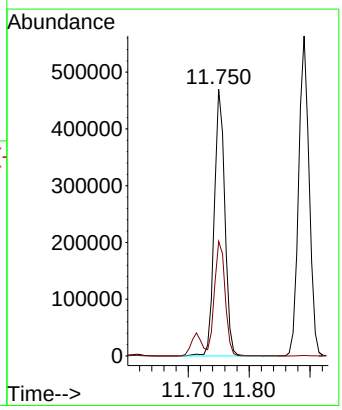
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

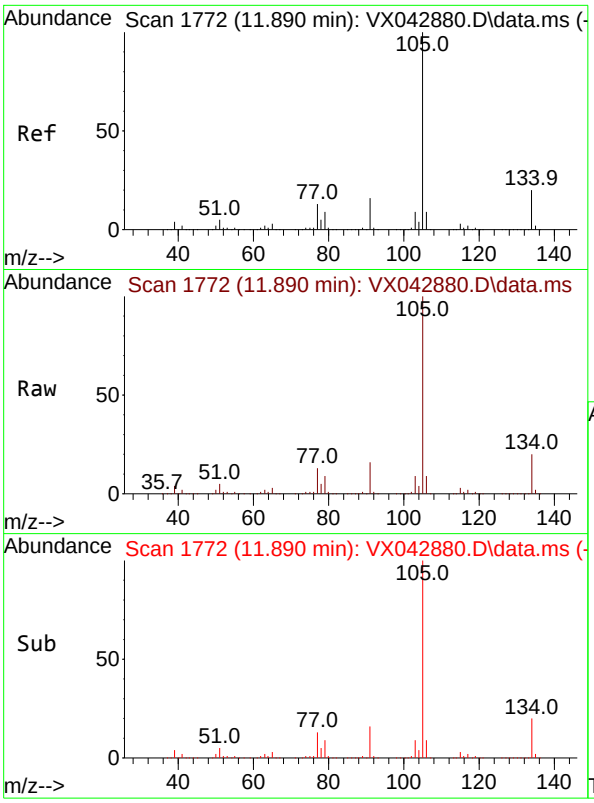


#84
1,2,4-Trimethylbenzene
Concen: 52.393 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion:105 Resp: 562656

Ion	Ratio	Lower	Upper
105	100		
120	43.2	21.2	63.6

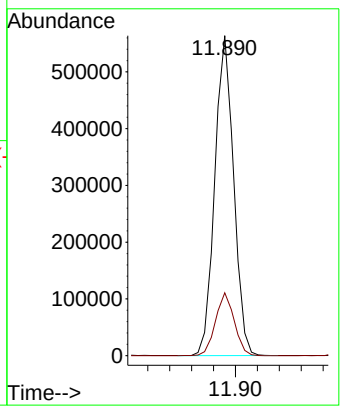




#85
sec-Butylbenzene
Concen: 52.187 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion:105 Resp: 67366

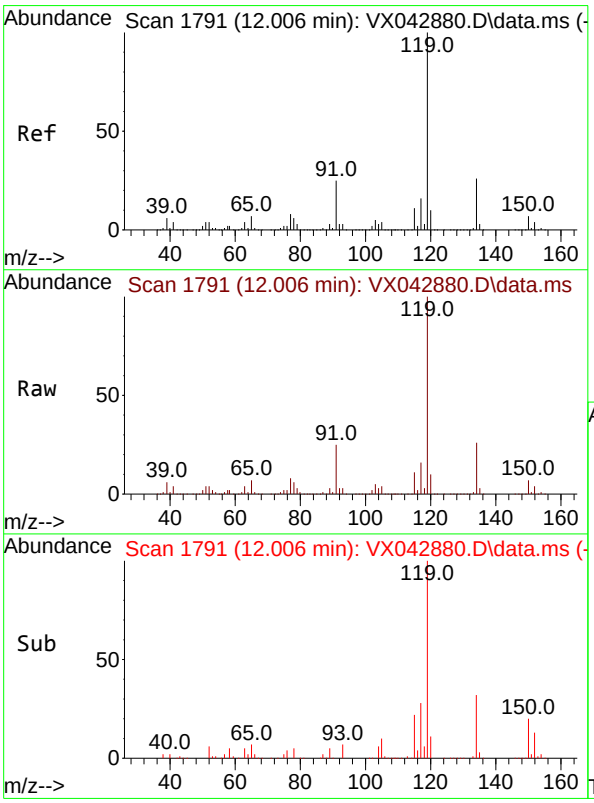
Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

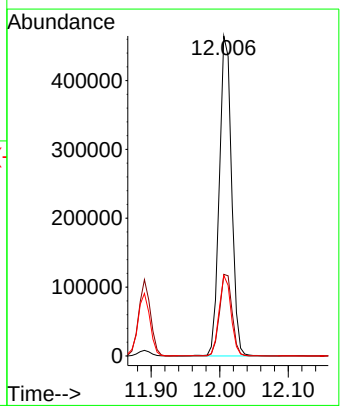
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

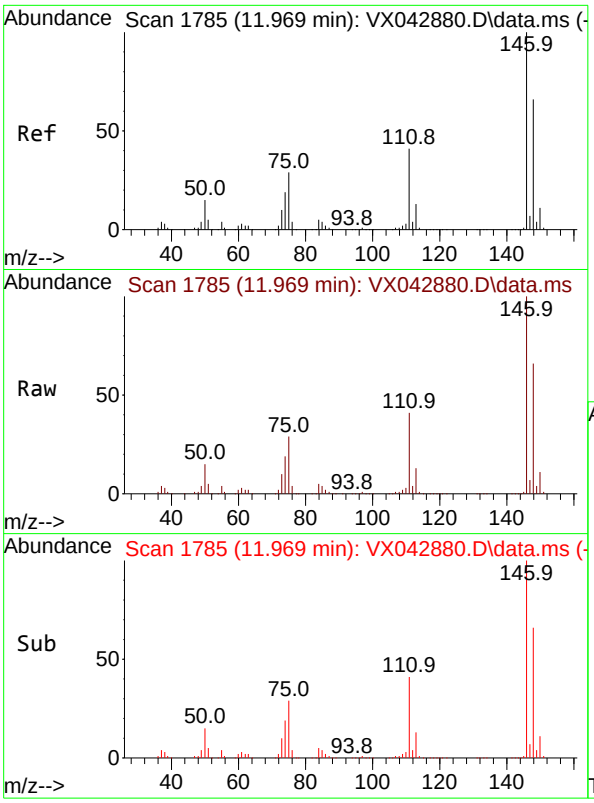


#86
p-Isopropyltoluene
Concen: 53.321 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion:119 Resp: 571852

Ion	Ratio	Lower	Upper
119	100		
134	26.2	12.8	38.3
91	24.6	13.1	39.3

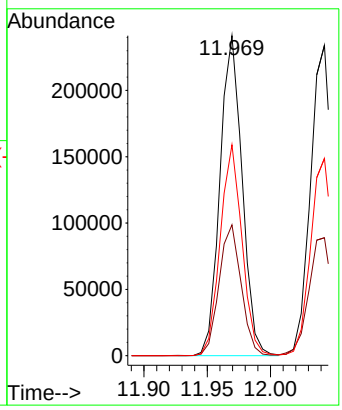




#87
1,3-Dichlorobenzene
Concen: 49.490 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion:146 Resp: 29352

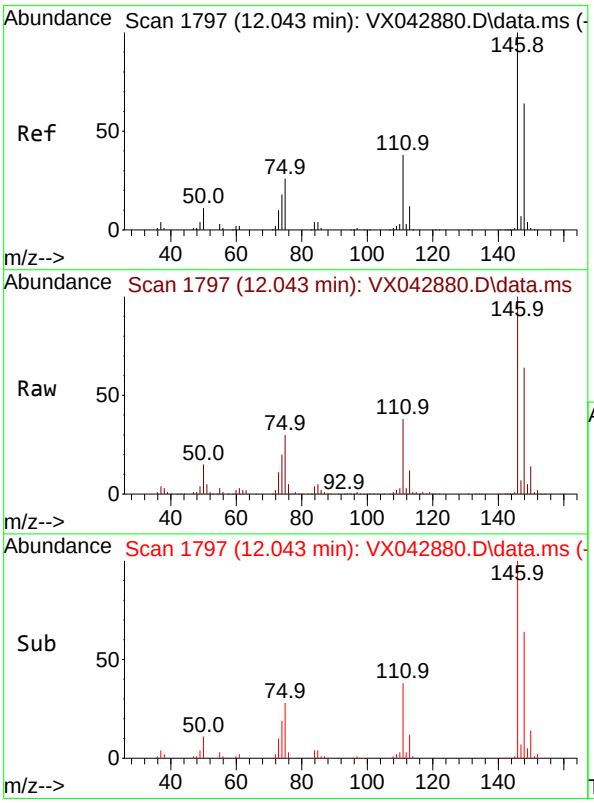
Ion	Ratio	Lower	Upper
146	100		
111	40.9	22.1	66.1
148	64.9	31.8	95.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

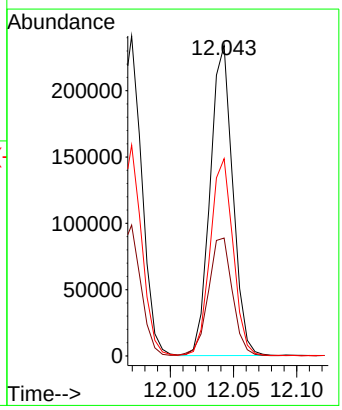
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

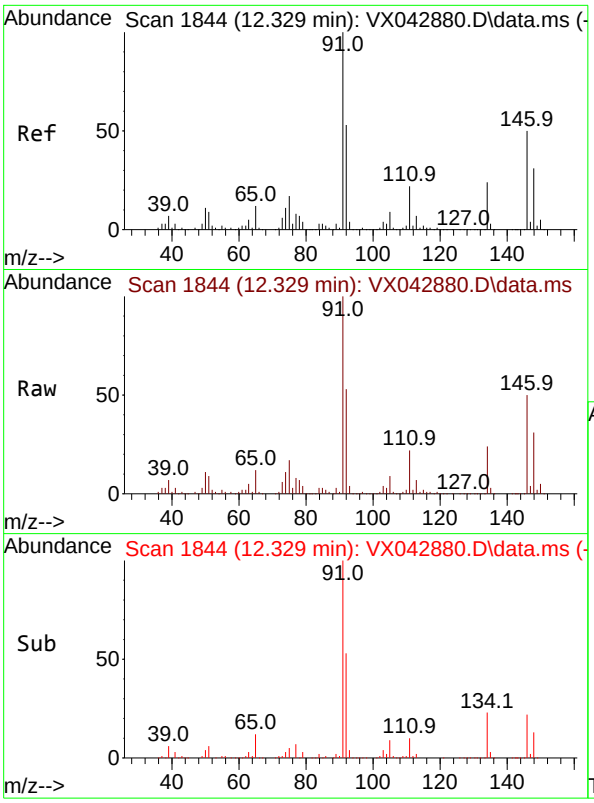


#88
1,4-Dichlorobenzene
Concen: 47.930 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion:146 Resp: 291382

Ion	Ratio	Lower	Upper
146	100		
111	40.3	21.3	63.7
148	64.3	31.8	95.4

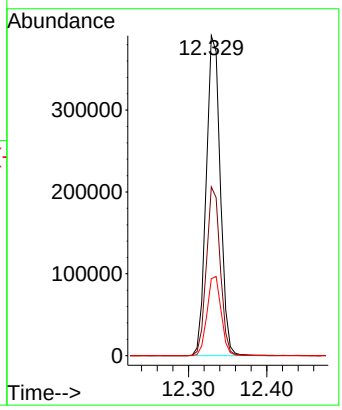




#89
n-Butylbenzene
Concen: 52.520 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 91 Resp: 48592

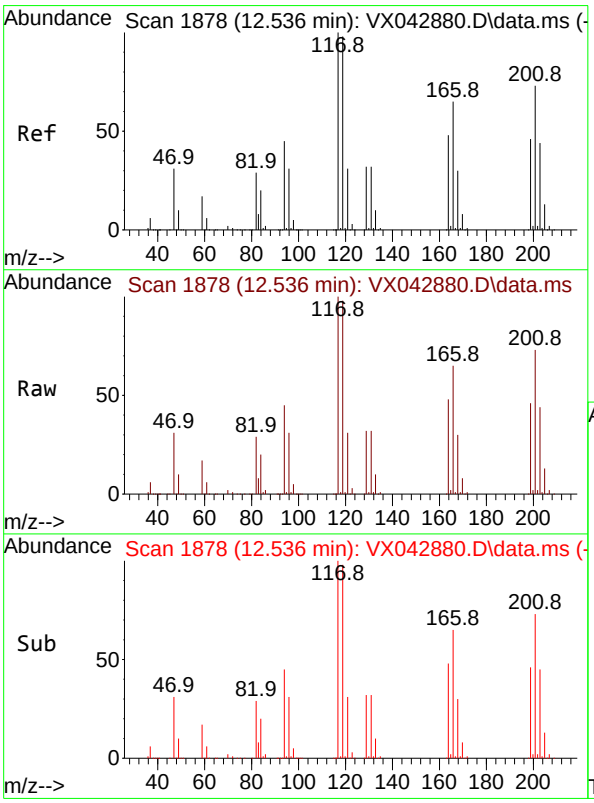
Ion	Ratio	Lower	Upper
91	100		
92	51.8	27.4	82.0
134	24.9	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

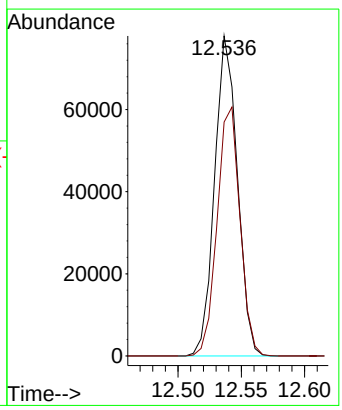
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

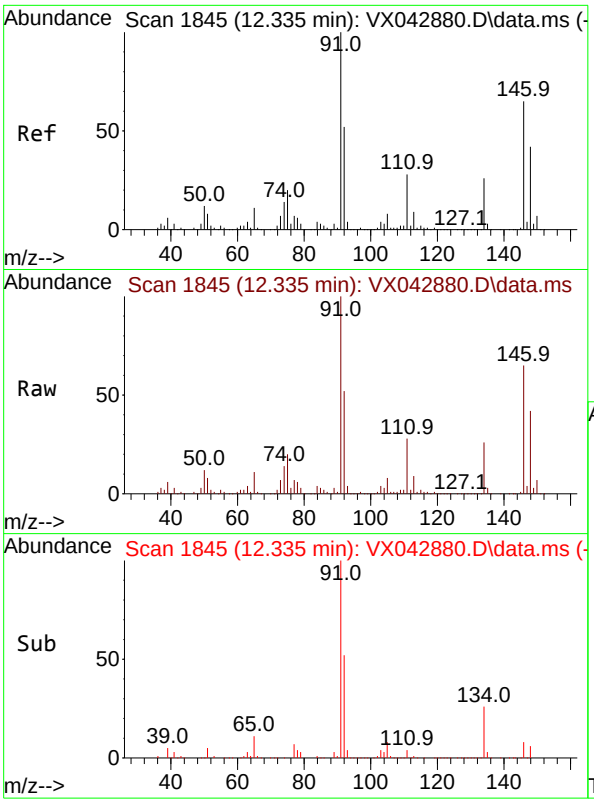


#90
Hexachloroethane
Concen: 49.698 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion:117 Resp: 97498

Ion	Ratio	Lower	Upper
117	100		
201	78.1	32.9	98.6

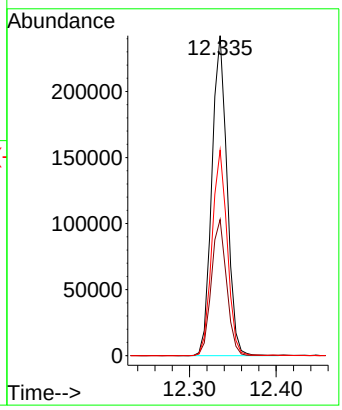




#91
1,2-Dichlorobenzene
Concen: 49.707 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion:146 Resp: 29521

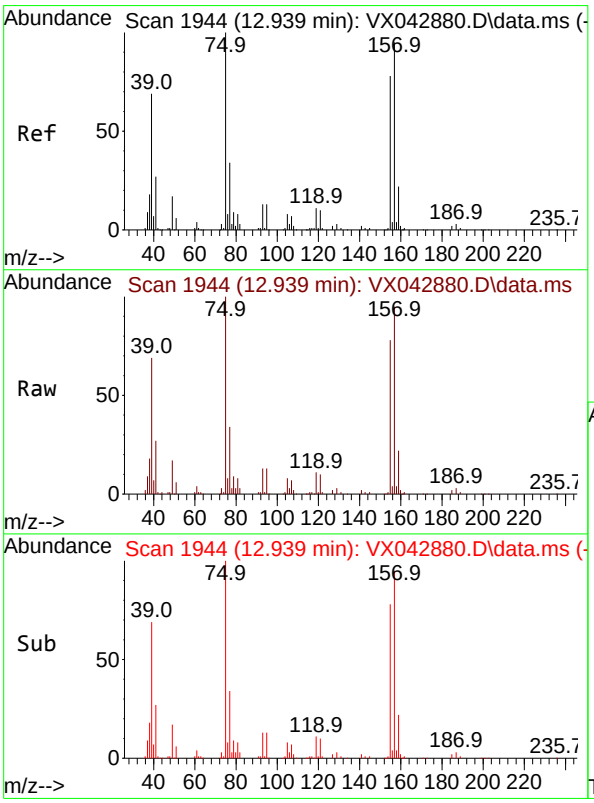
Ion	Ratio	Lower	Upper
146	100		
111	42.6	22.4	67.0
148	64.3	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

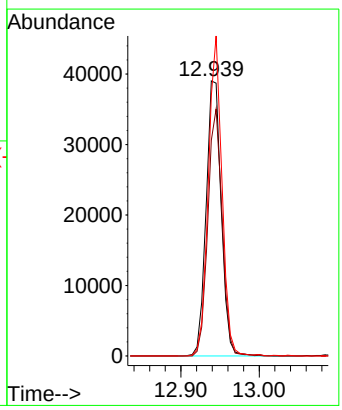
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

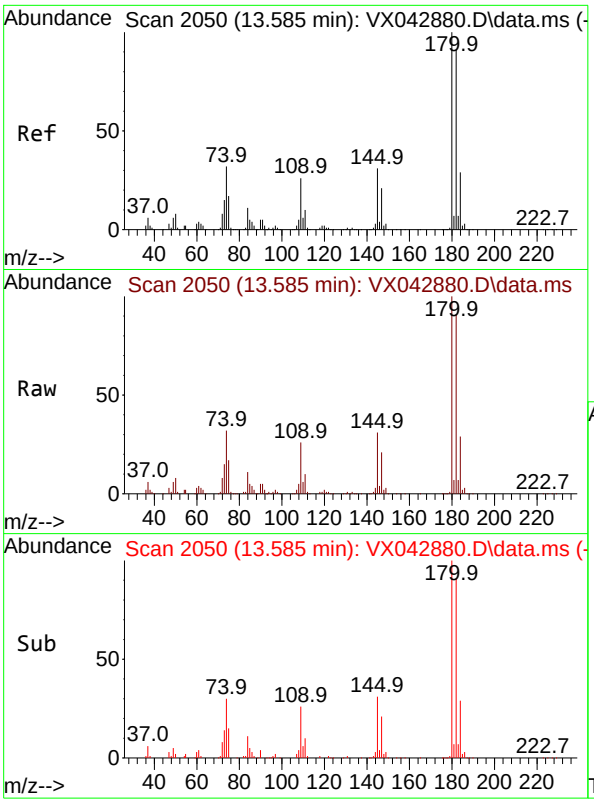


#92
1,2-Dibromo-3-Chloropropane
Concen: 50.412 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion: 75 Resp: 52278

Ion	Ratio	Lower	Upper
75	100		
155	85.0	36.1	108.5
157	105.2	44.9	134.7

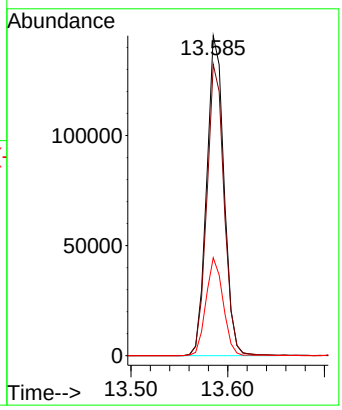




#93
1,2,4-Trichlorobenzene
Concen: 50.045 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion:180 Resp: 18129

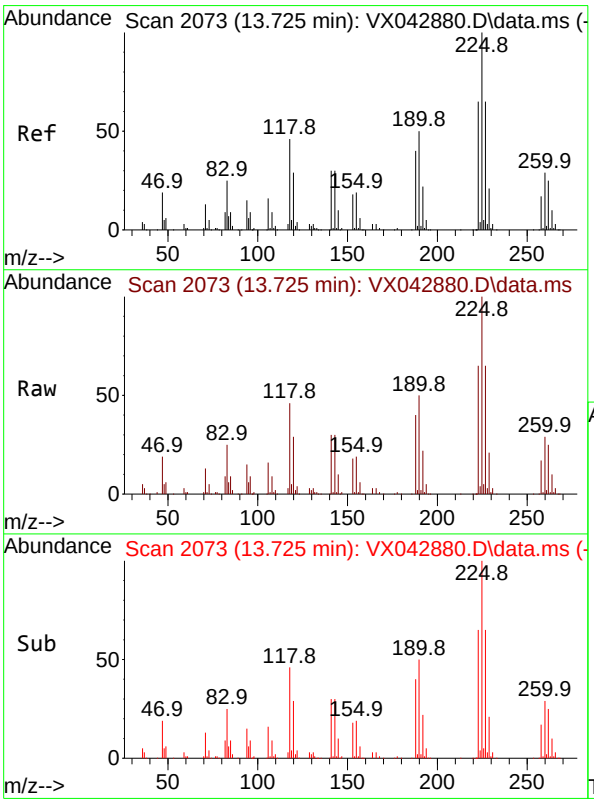
Ion	Ratio	Lower	Upper
180	100		
182	91.0	48.3	144.8
145	30.2	18.0	54.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

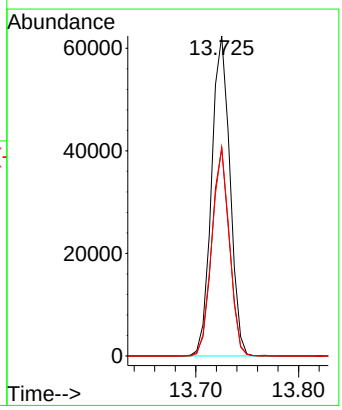
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

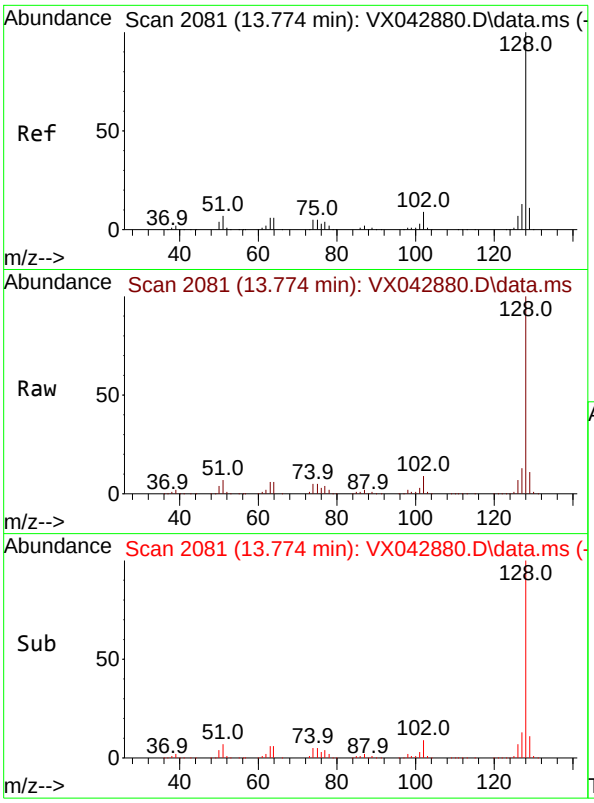


#94
Hexachlorobutadiene
Concen: 50.346 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion:225 Resp: 77353

Ion	Ratio	Lower	Upper
225	100		
223	62.0	31.1	93.2
227	62.2	32.5	97.5

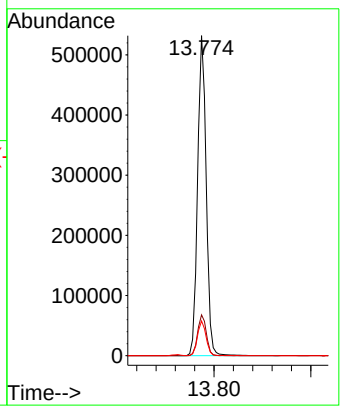




#95
Naphthalene
Concen: 52.086 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion:128 Resp: 65294

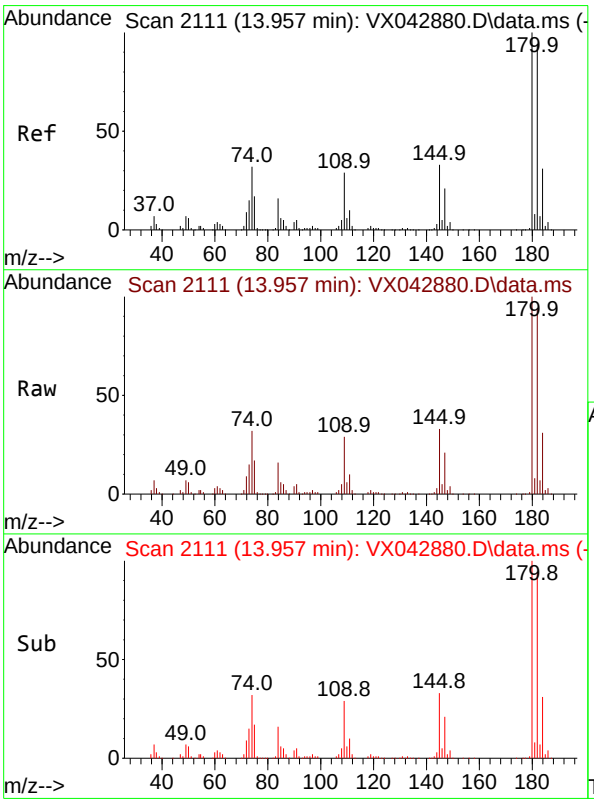
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	10.7	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

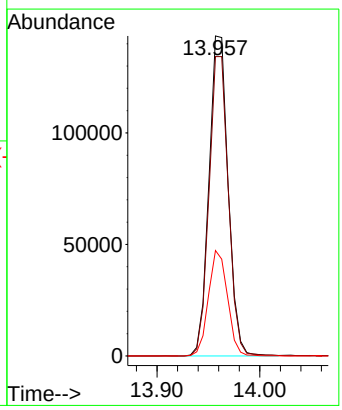
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024



#96
1,2,3-Trichlorobenzene
Concen: 51.079 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX042880.D
Acq: 06 Aug 2024 19:28

Tgt Ion:180 Resp: 186267

Ion	Ratio	Lower	Upper
180	100		
182	94.3	46.9	140.6
145	32.6	17.8	53.5



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042881.D
Acq On : 06 Aug 2024 19:51
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

Quant Time: Aug 07 02:39:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:27:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.556	168	239600	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	404077	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	363861	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	184824	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	329194	100.082	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 200.160%#			
35) Dibromofluoromethane	5.385	113	271187	102.643	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 205.280%#			
50) Toluene-d8	8.647	98	945465	100.803	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 201.600%#			
62) 4-Bromofluorobenzene	11.079	95	356307	105.715	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 211.440%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	273681	105.971	ug/l	99
3) Chloromethane	1.301	50	274998	97.728	ug/l	98
4) Vinyl Chloride	1.374	62	271642	101.744	ug/l	98
5) Bromomethane	1.599	94	167747	103.816	ug/l	98
6) Chloroethane	1.660	64	135964	89.391	ug/l	95
7) Trichlorofluoromethane	1.868	101	349010	84.056	ug/l	100
8) Diethyl Ether	2.136	74	146493	95.921	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.313	101	256271	98.168	ug/l	96
10) Methyl Iodide	2.441	142	293447	108.711	ug/l	94
11) Tert butyl alcohol	3.002	59	343526	525.069	ug/l #	91
12) 1,1-Dichloroethene	2.307	96	262417	99.366	ug/l	89
13) Acrolein	2.239	56	328105	508.778	ug/l	99
14) Allyl chloride	2.660	41	379995	95.227	ug/l	94
15) Acrylonitrile	3.075	53	823823	493.347	ug/l	99
16) Acetone	2.398	43	669358	469.175	ug/l	93
17) Carbon Disulfide	2.502	76	661627	102.952	ug/l	100
18) Methyl Acetate	2.709	43	417152	92.206	ug/l	99
19) Methyl tert-butyl Ether	3.123	73	888727	99.982	ug/l	98
20) Methylene Chloride	2.788	84	291927	101.038	ug/l	90
21) trans-1,2-Dichloroethene	3.087	96	266711	100.381	ug/l	90
22) Diisopropyl ether	3.770	45	863913	98.550	ug/l	86
23) Vinyl Acetate	3.727	43	5100144	512.610	ug/l	97
24) 1,1-Dichloroethane	3.605	63	495710	98.322	ug/l	99
25) 2-Butanone	4.568	43	1117565	498.806	ug/l	95
26) 2,2-Dichloropropane	4.477	77	305176	98.460	ug/l	94
27) cis-1,2-Dichloroethene	4.489	96	320002	101.556	ug/l	90
28) Bromochloromethane	4.904	49	185406	95.839	ug/l	88
29) Tetrahydrofuran	5.013	42	739176	488.235	ug/l	95
30) Chloroform	5.093	83	523323	99.151	ug/l	100
31) Cyclohexane	5.464	56	416521	101.204	ug/l	94
32) 1,1,1-Trichloroethane	5.385	97	476787	102.615	ug/l	97
36) 1,1-Dichloropropene	5.690	75	351504	98.128	ug/l	98
37) Ethyl Acetate	4.727	43	435546	97.180	ug/l	98
38) Carbon Tetrachloride	5.678	117	408243	100.960	ug/l	97
39) Methylcyclohexane	7.379	83	448936	105.427	ug/l	95
40) Benzene	6.038	78	1099513	98.901	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042881.D
Acq On : 06 Aug 2024 19:51
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Aug 07 02:39:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:27:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.928	41	236252	102.344	ug/l		94
42) 1,2-Dichloroethane	6.086	62	397654	98.338	ug/l		98
43) Isopropyl Acetate	6.348	43	689828	104.074	ug/l		97
44) Trichloroethene	7.123	130	275986	98.798	ug/l		99
45) 1,2-Dichloropropane	7.428	63	275925	97.840	ug/l		96
46) Dibromomethane	7.580	93	206898	99.890	ug/l		94
47) Bromodichloromethane	7.824	83	401660	104.390	ug/l		96
48) Methyl methacrylate	7.696	41	336126	105.758	ug/l		91
49) 1,4-Dioxane	7.665	88	148110	2015.621	ug/l	#	91
51) 4-Methyl-2-Pentanone	8.580	43	2239751	504.467	ug/l		97
52) Toluene	8.720	92	687792	101.993	ug/l		95
53) t-1,3-Dichloropropene	8.976	75	395752	111.266	ug/l		98
54) cis-1,3-Dichloropropene	8.366	75	422736	107.618	ug/l		90
55) 1,1,2-Trichloroethane	9.153	97	279656	102.011	ug/l		97
56) Ethyl methacrylate	9.116	69	479033	108.588	ug/l		93
57) 1,3-Dichloropropane	9.311	76	453266	100.929	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.244	63	1122954	540.096	ug/l		100
59) 2-Hexanone	9.433	43	1746944	507.789	ug/l		96
60) Dibromochloromethane	9.525	129	323698	107.485	ug/l		99
61) 1,2-Dibromoethane	9.610	107	295997	102.193	ug/l		100
64) Tetrachloroethene	9.275	164	249669	98.685	ug/l		97
65) Chlorobenzene	10.080	112	765606	99.154	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.165	131	274617	103.146	ug/l		100
67) Ethyl Benzene	10.195	91	1331518	102.520	ug/l		98
68) m/p-Xylenes	10.299	106	1020743	205.869	ug/l		99
69) o-Xylene	10.640	106	504692	101.612	ug/l		99
70) Styrene	10.653	104	862587	107.999	ug/l		97
71) Bromoform	10.799	173	239765	101.174	ug/l	#	99
73) Isopropylbenzene	10.964	105	1302345	97.462	ug/l		99
74) N-amyl acetate	10.842	43	627143	104.306	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.213	83	447896	91.497	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	365479m	90.148	ug/l		
77) Bromobenzene	11.195	156	329232	96.857	ug/l		91
78) n-propylbenzene	11.305	91	1496508	100.822	ug/l		99
79) 2-Chlorotoluene	11.366	91	917262	96.417	ug/l		97
80) 1,3,5-Trimethylbenzene	11.451	105	1112024	100.504	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	137452	107.522	ug/l		89
82) 4-Chlorotoluene	11.451	91	1057837	98.925	ug/l		98
83) tert-Butylbenzene	11.713	119	1144862	100.685	ug/l		96
84) 1,2,4-Trimethylbenzene	11.750	105	1129383	101.391	ug/l		99
85) sec-Butylbenzene	11.890	105	1373197	102.560	ug/l		99
86) p-Isopropyltoluene	12.006	119	1163797	104.620	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	595839	96.858	ug/l		97
88) 1,4-Dichlorobenzene	12.043	146	599711	95.107	ug/l		97
89) n-Butylbenzene	12.329	91	1039959	108.366	ug/l		98
90) Hexachloroethane	12.536	117	209610	103.010	ug/l		86
91) 1,2-Dichlorobenzene	12.335	146	605189	98.243	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	106582	99.089	ug/l		82
93) 1,2,4-Trichlorobenzene	13.585	180	385643	102.632	ug/l		96
94) Hexachlorobutadiene	13.725	225	162811	102.165	ug/l		98
95) Naphthalene	13.774	128	1375504	105.787	ug/l		100
96) 1,2,3-Trichlorobenzene	13.963	180	395105	104.460	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042881.D
Acq On : 06 Aug 2024 19:51
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

Quant Time: Aug 07 02:39:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:27:24 2024
Response via : Initial Calibration

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

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

ICAL Form

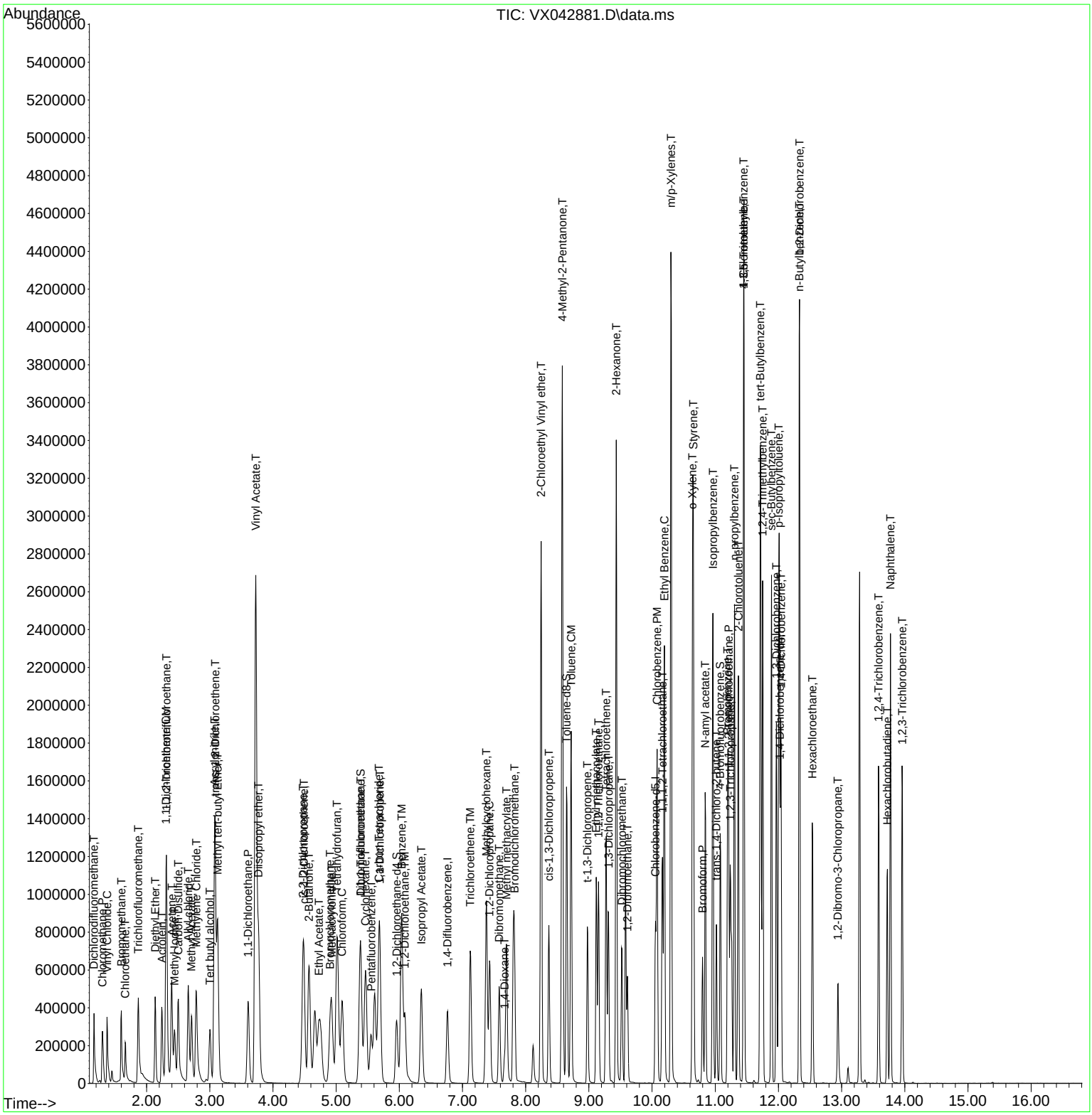
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042881.D
Acq On : 06 Aug 2024 19:51
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

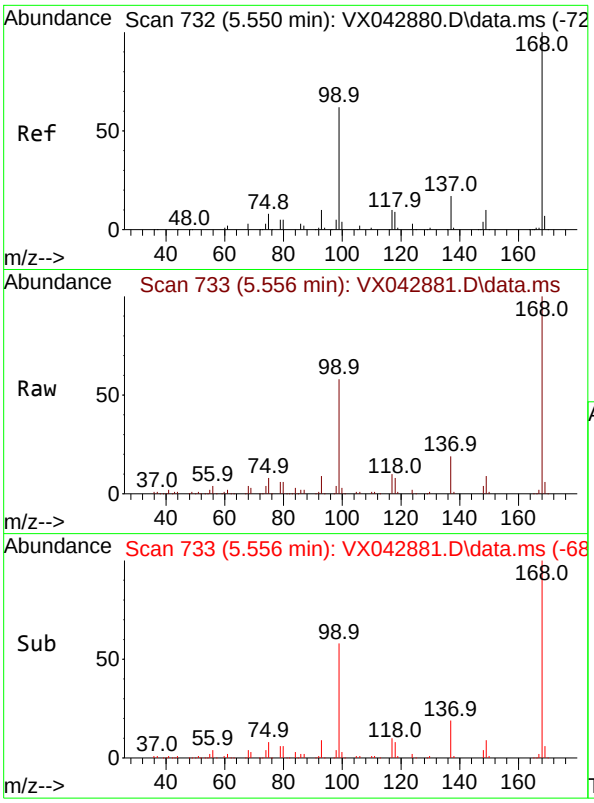
Quant Time: Aug 07 02:39:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:27:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

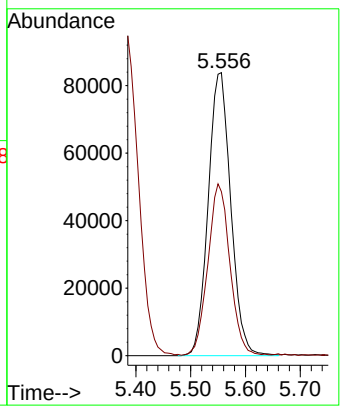




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion:168 Resp: 23960

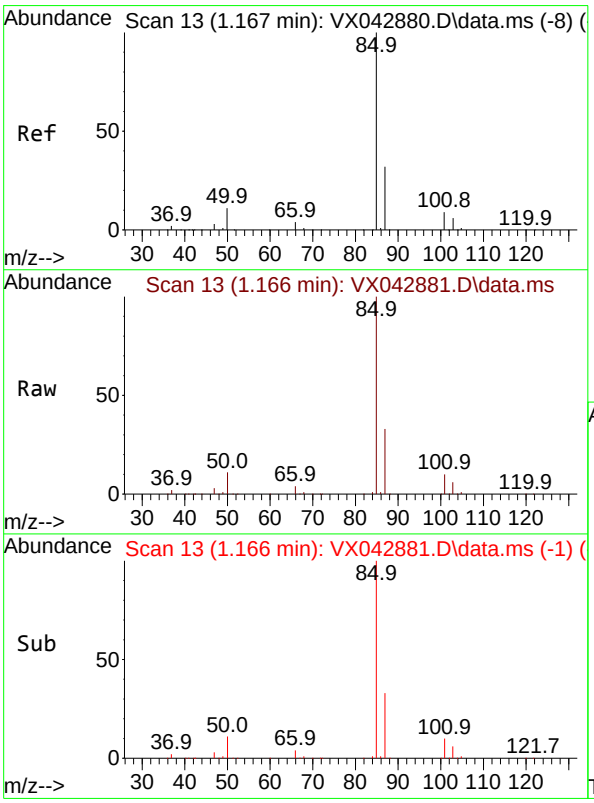
Ion	Ratio	Lower	Upper
168	100		
99	57.5	56.6	85.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

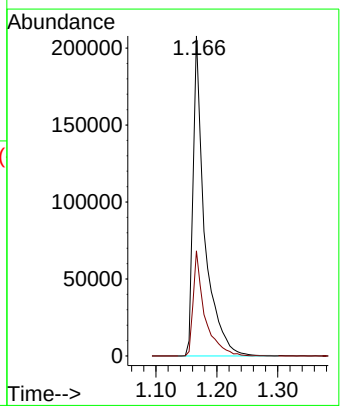
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

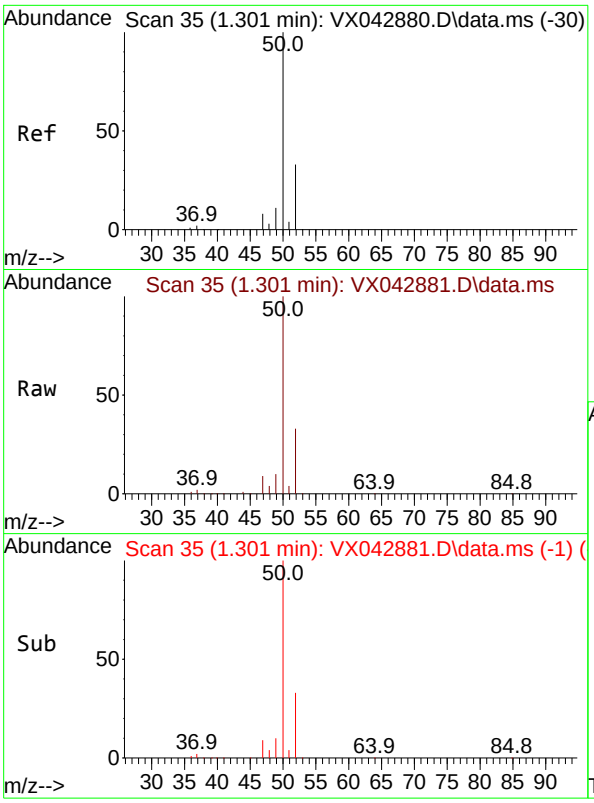


#2
Dichlorodifluoromethane
Concen: 105.971 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 85 Resp: 273681

Ion	Ratio	Lower	Upper
85	100		
87	32.9	16.7	50.1





#3
Chloromethane
Concen: 97.728 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

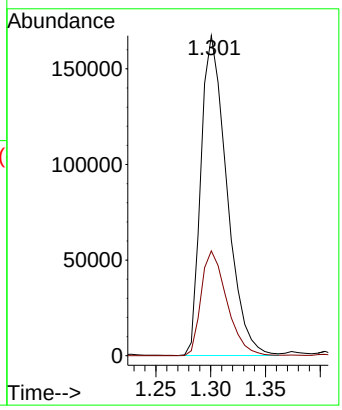
Tgt Ion: 50 Resp: 27499

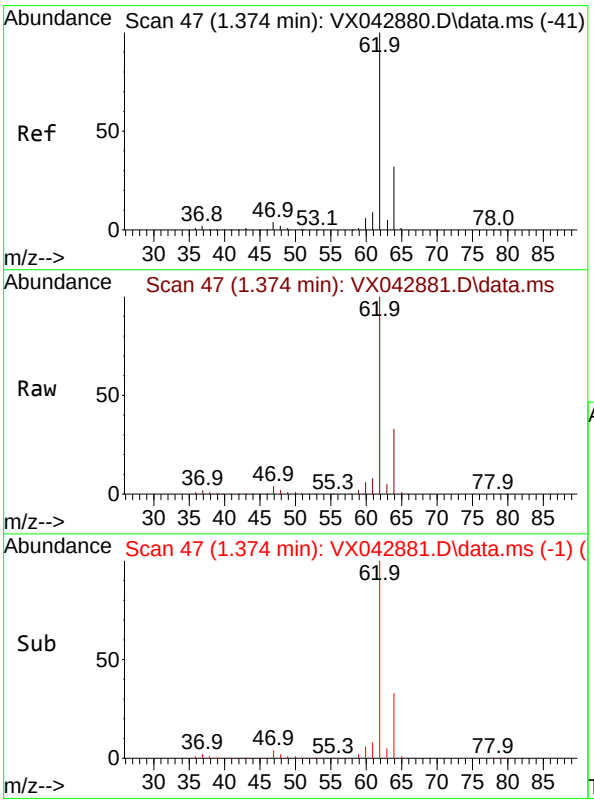
Ion	Ratio	Lower	Upper
50	100		
52	32.8	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

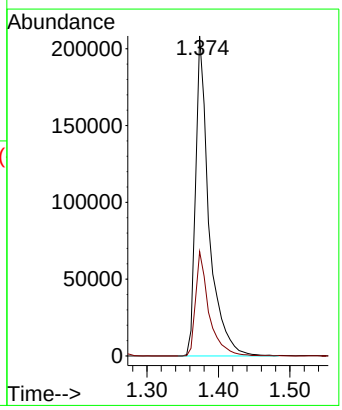


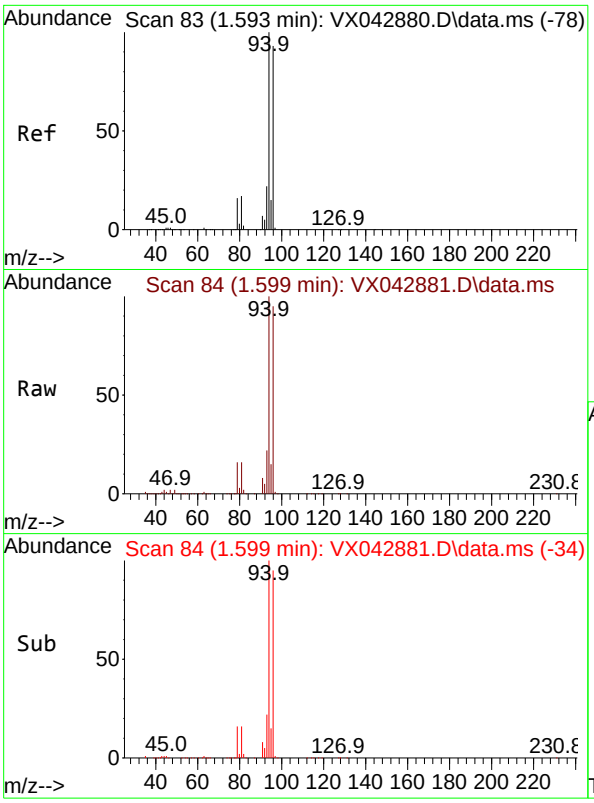


#4
Vinyl Chloride
Concen: 101.744 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 62 Resp: 271642

Ion	Ratio	Lower	Upper
62	100		
64	32.6	25.4	38.0

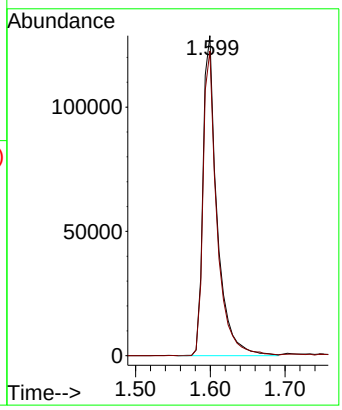




#5
Bromomethane
Concen: 103.816 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.006 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 94 Resp: 16774

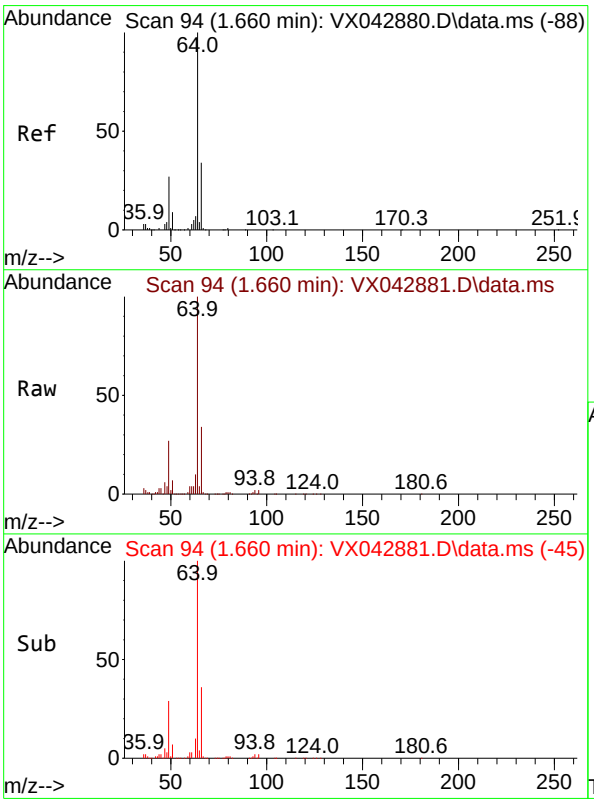
Ion	Ratio	Lower	Upper
94	100		
96	95.2	74.6	111.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

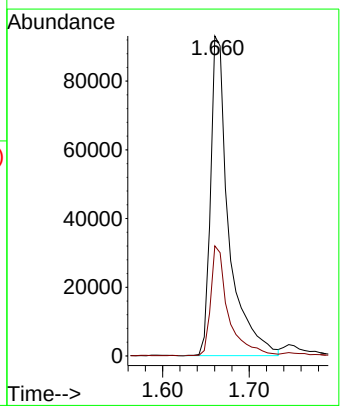
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

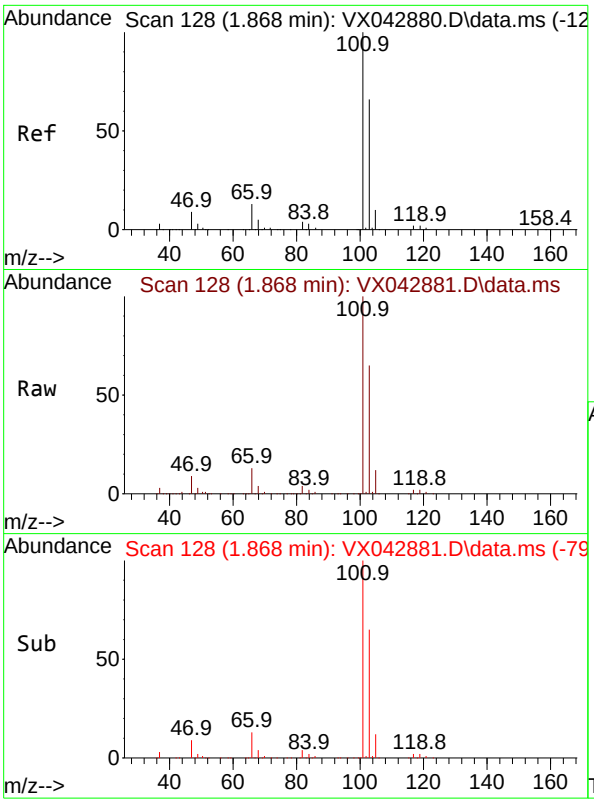


#6
Chloroethane
Concen: 89.391 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 64 Resp: 135964

Ion	Ratio	Lower	Upper
64	100		
66	34.3	25.1	37.7





#7
Trichlorofluoromethane
Concen: 84.056 ug/l
RT: 1.868 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

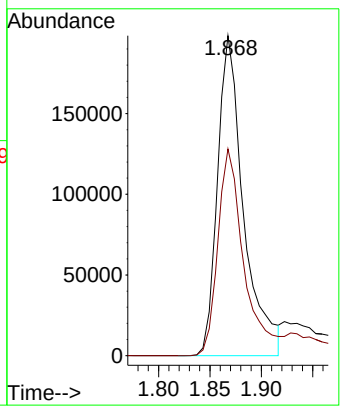
Tgt Ion:101 Resp: 34901

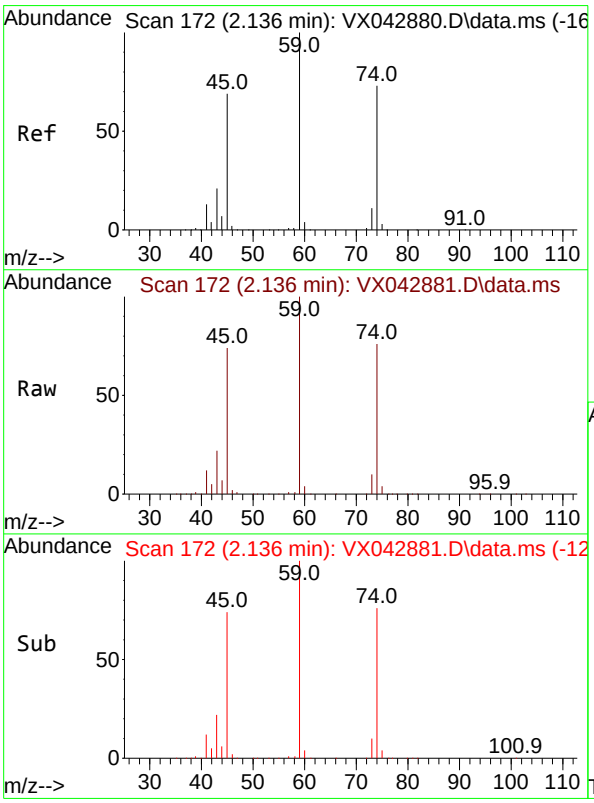
Ion	Ratio	Lower	Upper
101	100		
103	64.6	51.4	77.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

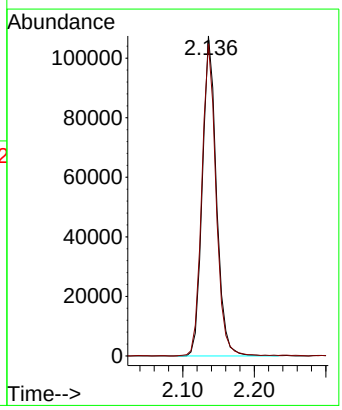


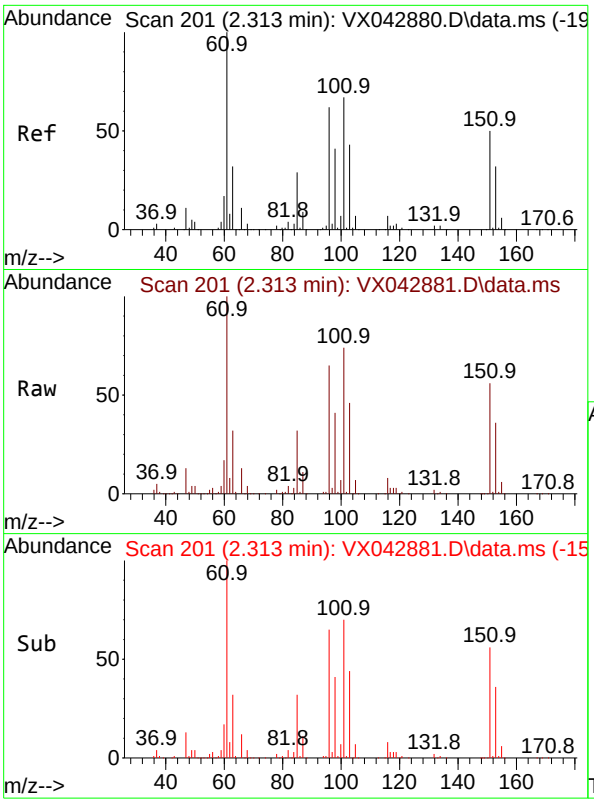


#8
Diethyl Ether
Concen: 95.921 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 74 Resp: 146493

Ion	Ratio	Lower	Upper
74	100		
45	98.8	53.3	159.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 98.168 ug/l
RT: 2.313 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

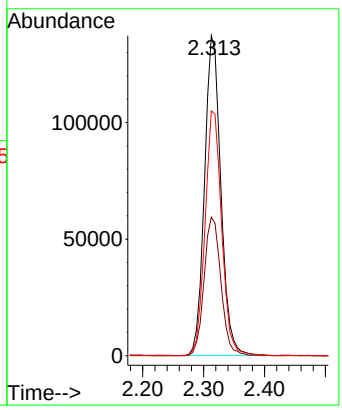
Tgt Ion:101 Resp: 25627

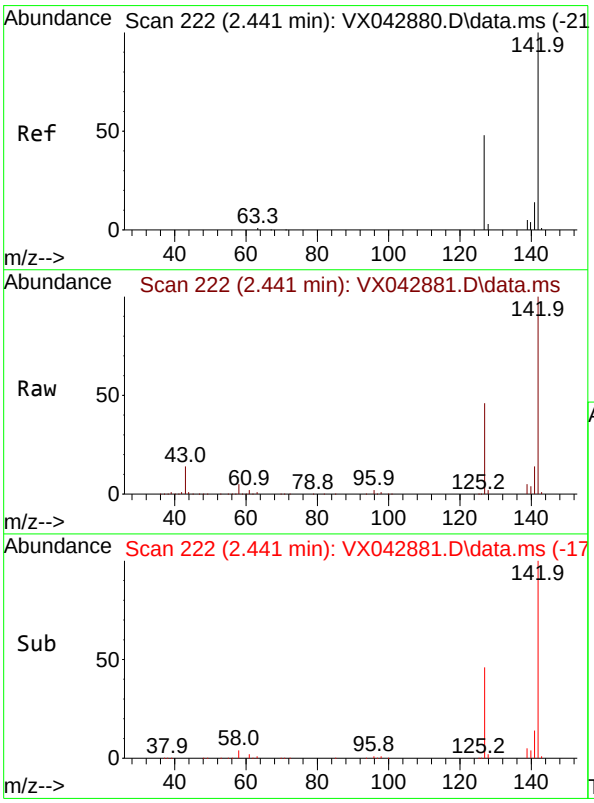
Ion	Ratio	Lower	Upper
101	100		
85	44.6	37.0	55.6
151	77.8	58.6	87.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

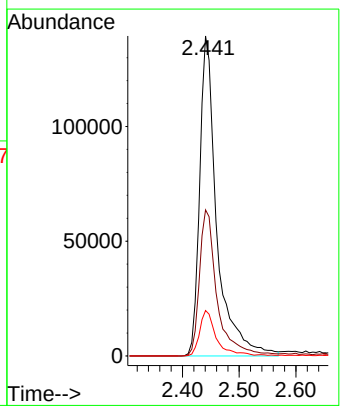


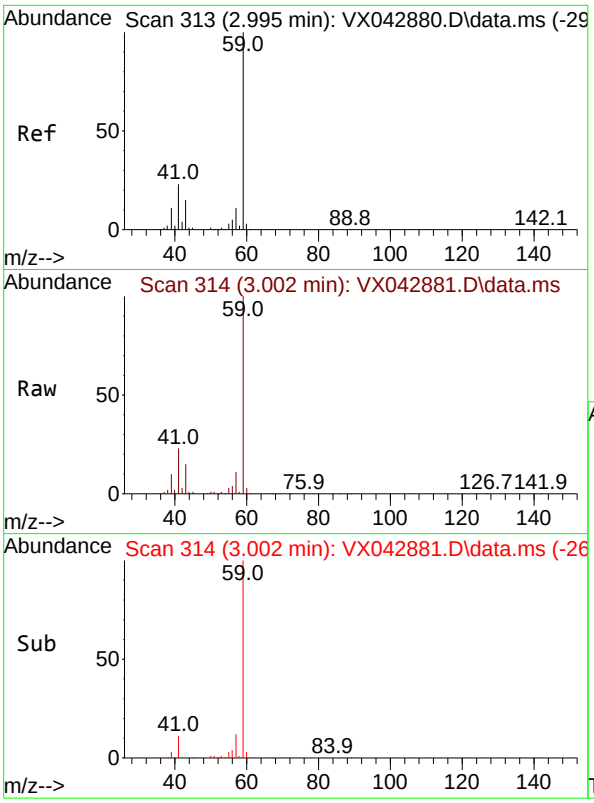


#10
Methyl Iodide
Concen: 108.711 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion:142 Resp: 293447

Ion	Ratio	Lower	Upper
142	100		
127	46.8	41.6	62.4
141	13.8	11.6	17.4





#11
Tert butyl alcohol
Concen: 525.069 ug/l
RT: 3.002 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

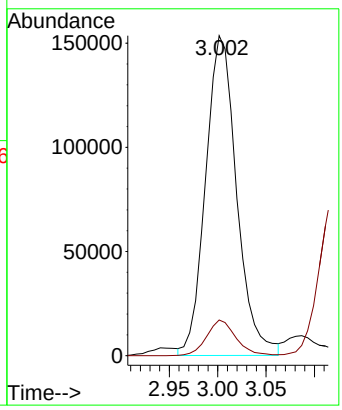
Tgt Ion: 59 Resp: 34352

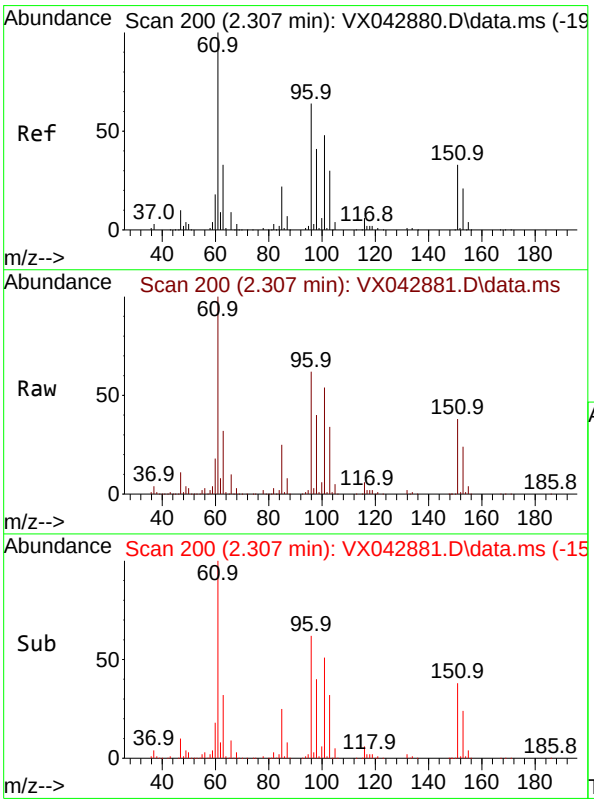
Ion	Ratio	Lower	Upper
59	100		
57	10.5	6.0	9.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

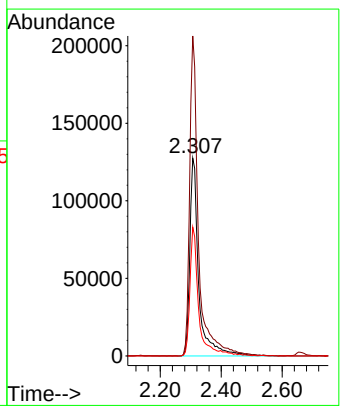


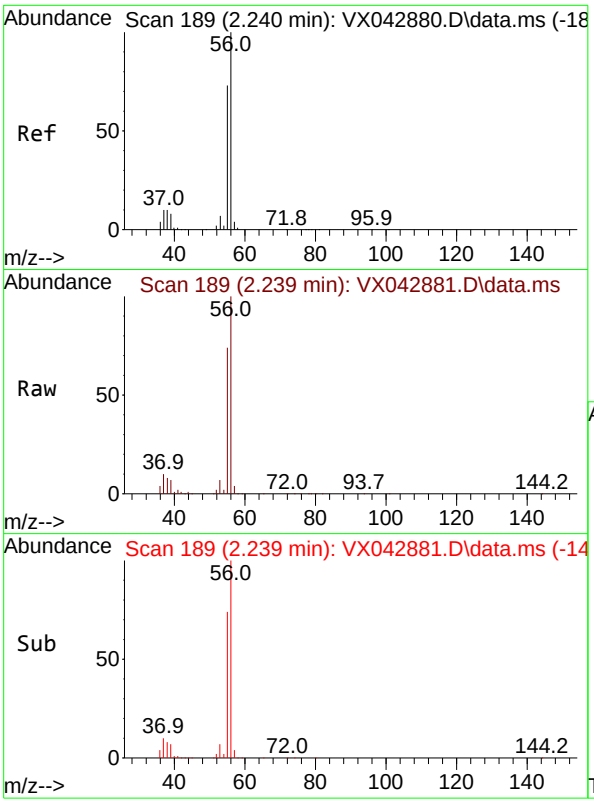


#12
1,1-Dichloroethene
Concen: 99.366 ug/l
RT: 2.307 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 96 Resp: 262417

Ion	Ratio	Lower	Upper
96	100		
61	161.8	144.6	216.8
98	65.1	50.4	75.6

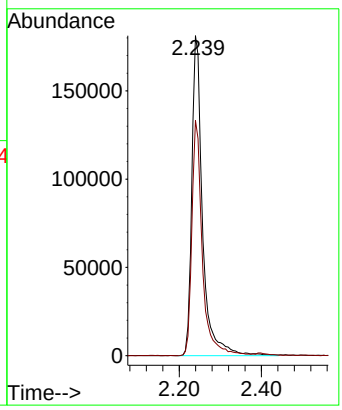




#13
Acrolein
Concen: 508.778 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 56 Resp: 32810

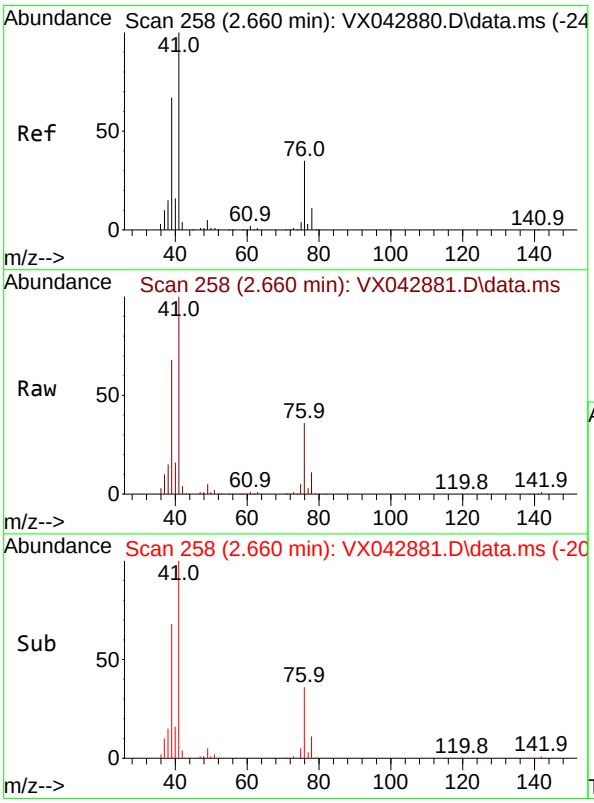
Ion	Ratio	Lower	Upper
56	100		
55	71.9	57.1	85.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

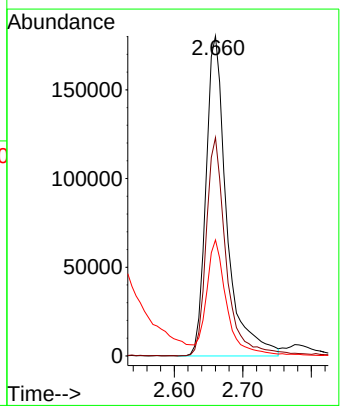
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

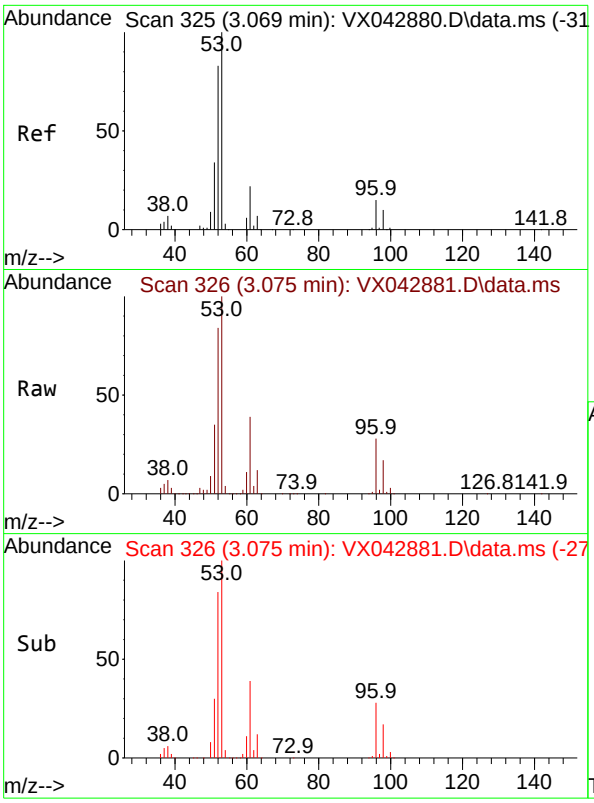


#14
Allyl chloride
Concen: 95.227 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 41 Resp: 379995

Ion	Ratio	Lower	Upper
41	100		
39	65.9	55.8	83.6
76	35.9	24.3	36.5





#15
Acrylonitrile
Concen: 493.347 ug/l
RT: 3.075 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

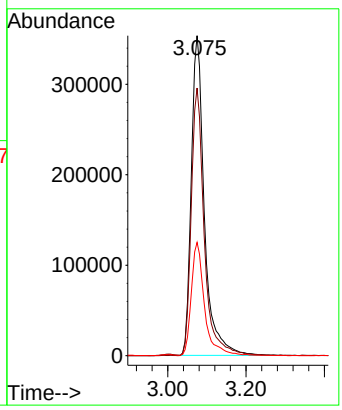
Tgt Ion: 53 Resp: 82382

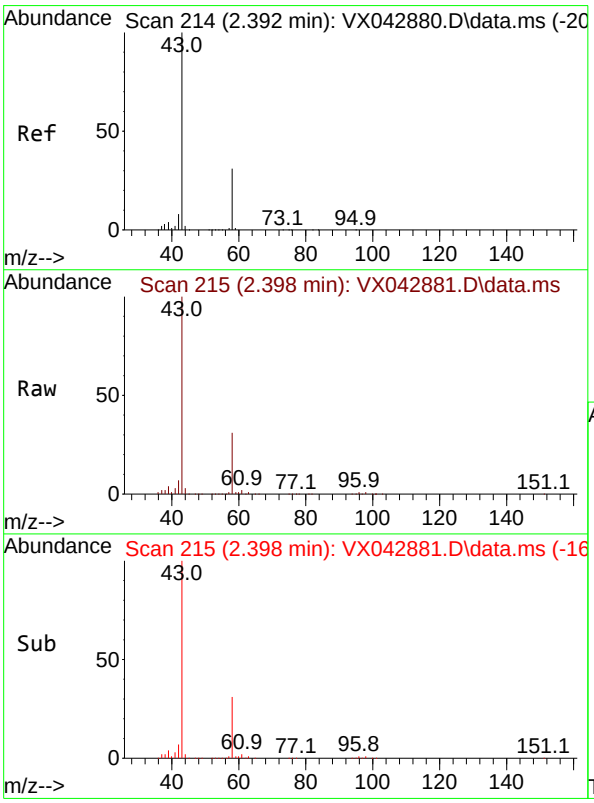
Ion	Ratio	Lower	Upper
53	100		
52	83.2	66.0	99.0
51	35.5	29.8	44.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

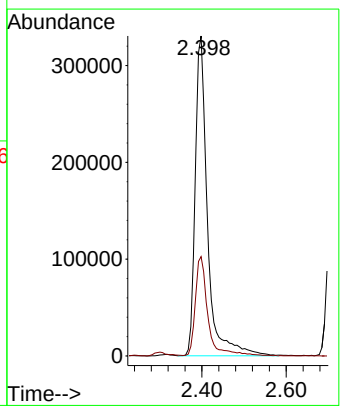


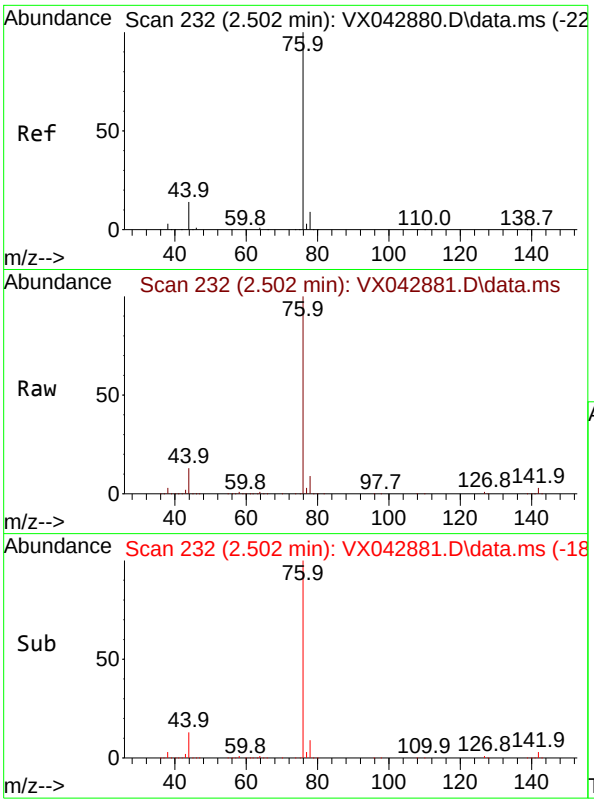


#16
Acetone
Concen: 469.175 ug/l
RT: 2.398 min Scan# 215
Delta R.T. 0.006 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 43 Resp: 669358

Ion	Ratio	Lower	Upper
43	100		
58	31.0	21.9	32.9





#17
Carbon Disulfide
Concen: 102.952 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

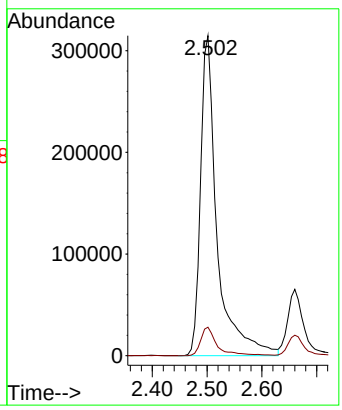
Tgt Ion: 76 Resp: 66162

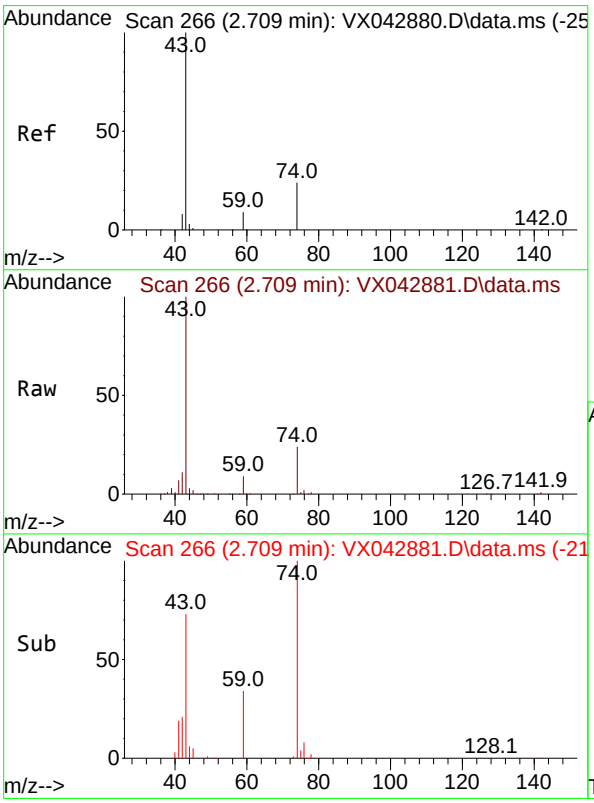
Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.0	10.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

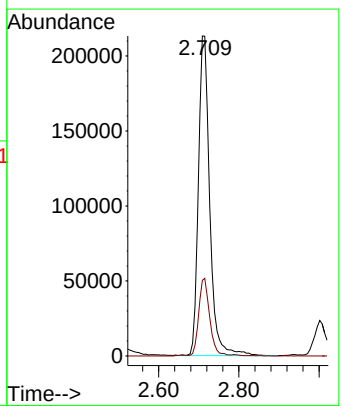


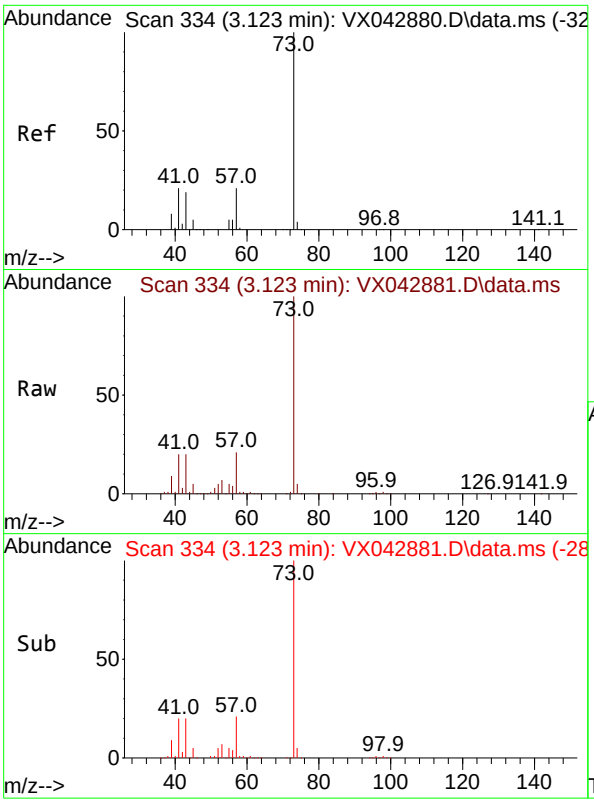


#18
Methyl Acetate
Concen: 92.206 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 43 Resp: 417152

Ion	Ratio	Lower	Upper
43	100		
74	22.8	17.8	26.8





#19
Methyl tert-butyl Ether
Concen: 99.982 ug/l
RT: 3.123 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

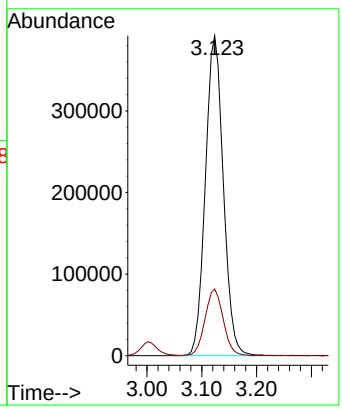
Tgt Ion: 73 Resp: 88872

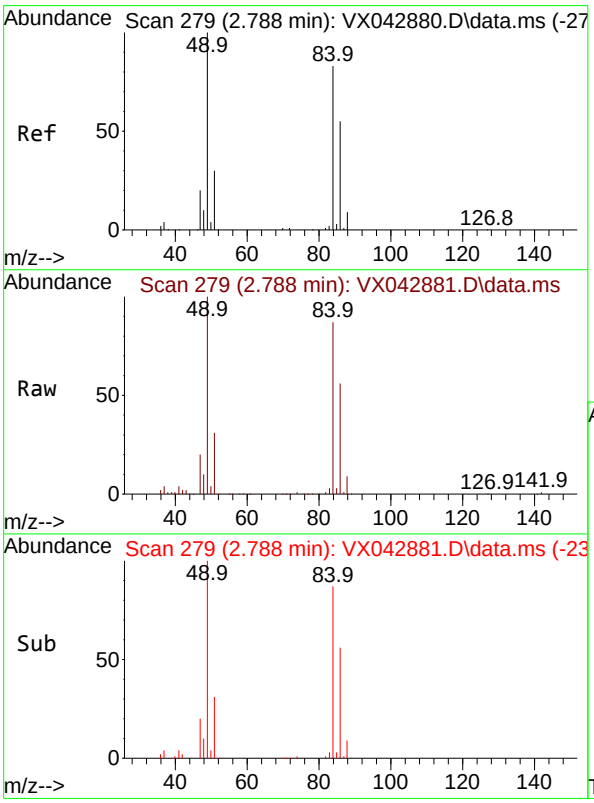
Ion	Ratio	Lower	Upper
73	100		
57	20.8	17.3	25.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

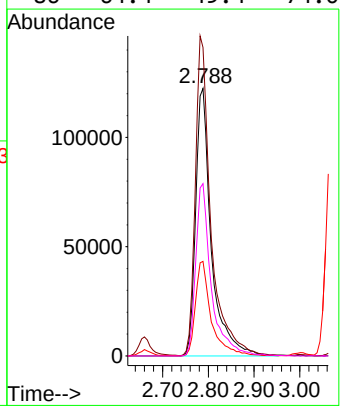


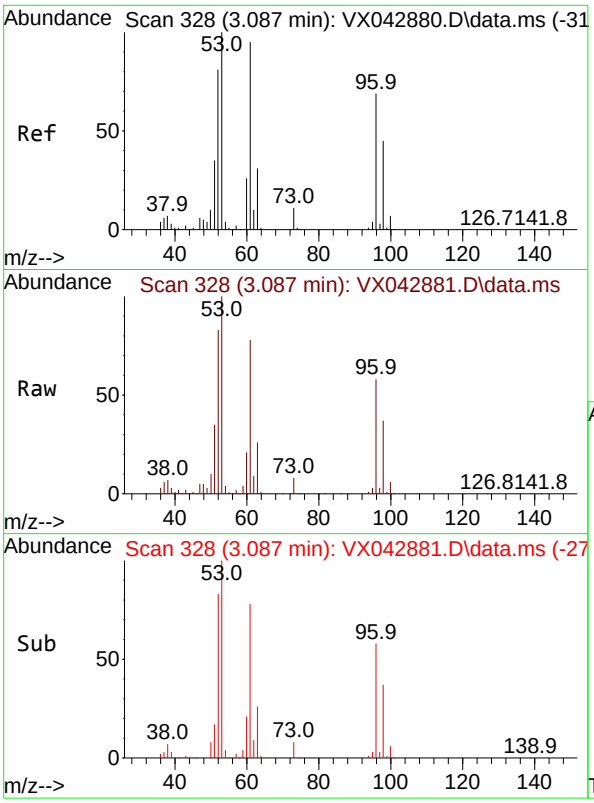


#20
Methylene Chloride
Concen: 101.038 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 84 Resp: 291927

Ion	Ratio	Lower	Upper
84	100		
49	115.1	103.6	155.4
51	35.3	33.8	50.6
86	64.4	49.4	74.0

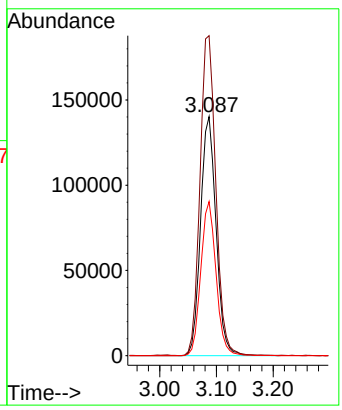




#21
trans-1,2-Dichloroethene
Concen: 100.381 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 96 Resp: 26671

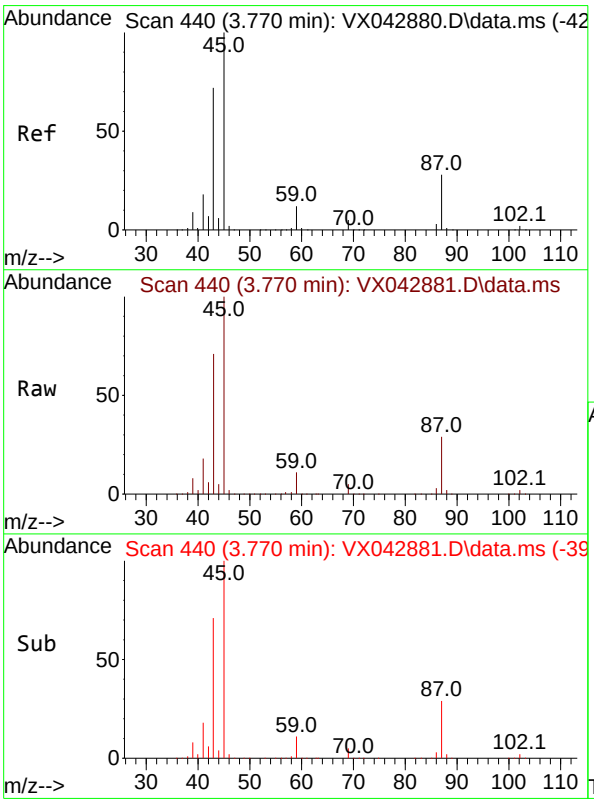
Ion	Ratio	Lower	Upper
96	100		
61	133.8	119.2	178.8
98	64.5	48.7	73.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

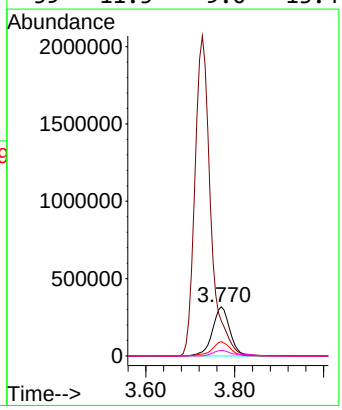
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

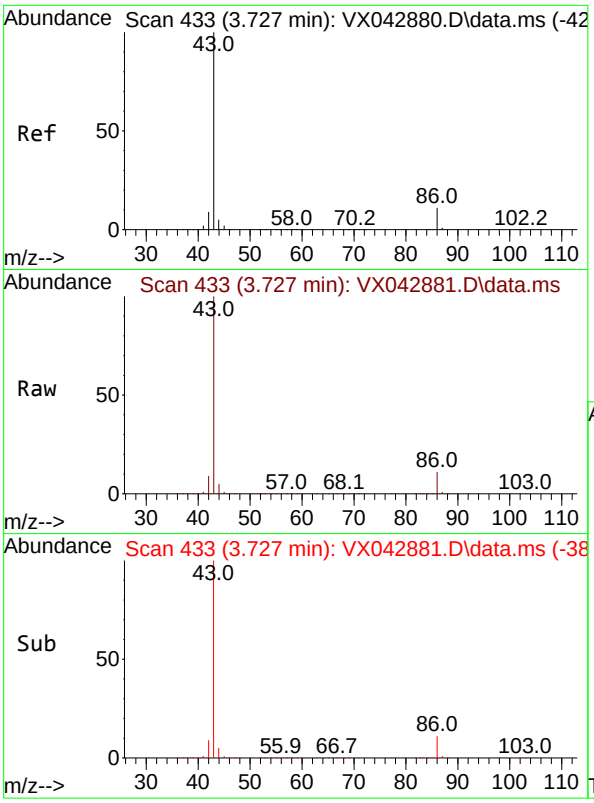


#22
Diisopropyl ether
Concen: 98.550 ug/l
RT: 3.770 min Scan# 440
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 45 Resp: 863913

Ion	Ratio	Lower	Upper
45	100		
43	71.2	69.7	104.5
87	29.4	20.8	31.2
59	11.5	9.0	13.4

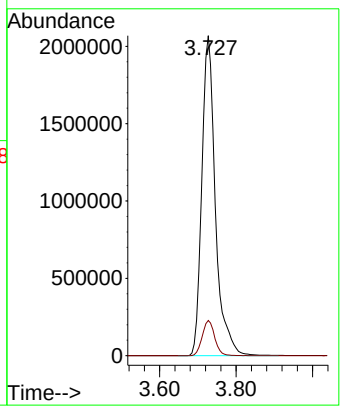




#23
Vinyl Acetate
Concen: 512.610 ug/l
RT: 3.727 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 43 Resp: 510014

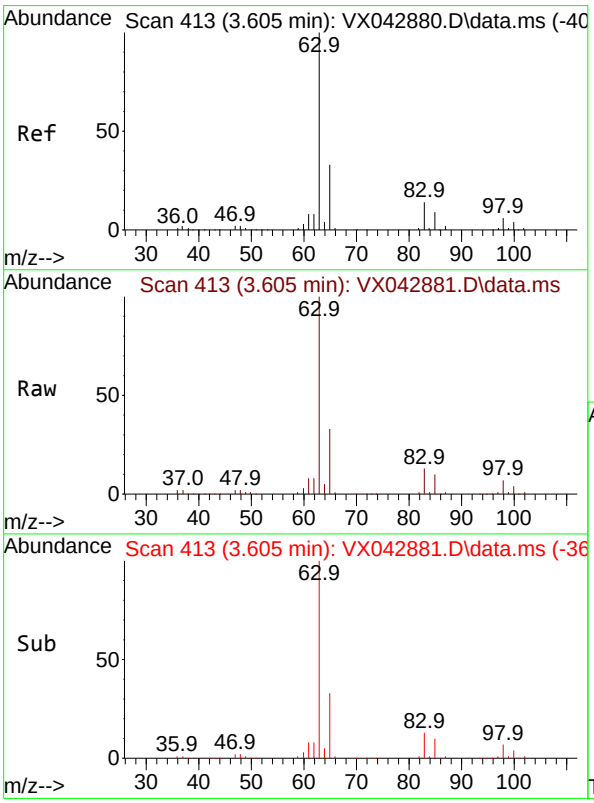
Ion	Ratio	Lower	Upper
43	100		
86	11.0	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

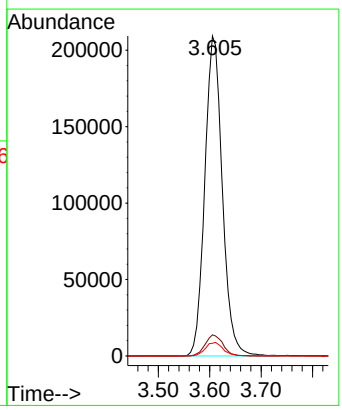
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

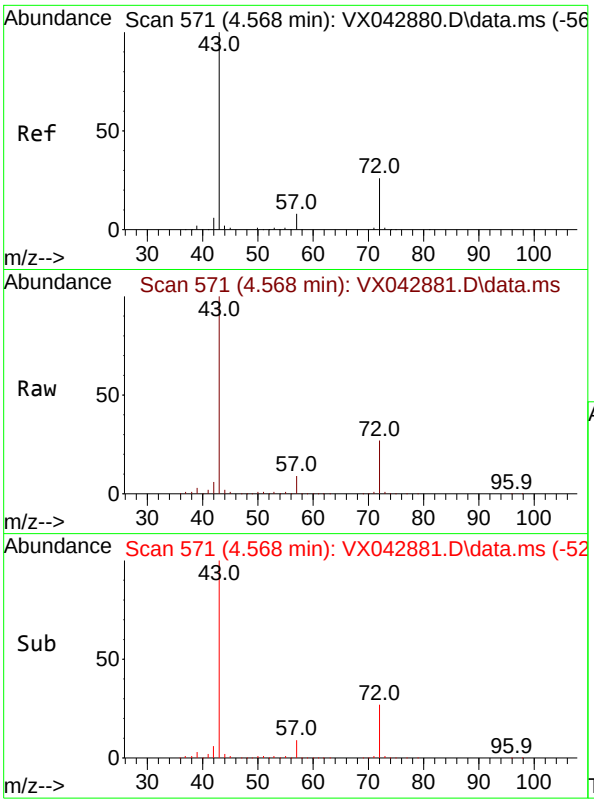


#24
1,1-Dichloroethane
Concen: 98.322 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 63 Resp: 495710

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.3	9.8
100	4.0	2.1	6.5





#25
2-Butanone
Concen: 498.806 ug/l
RT: 4.568 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

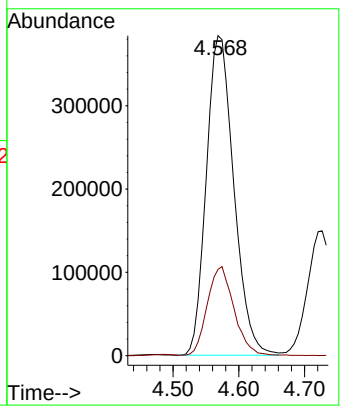
Tgt Ion: 43 Resp: 111756

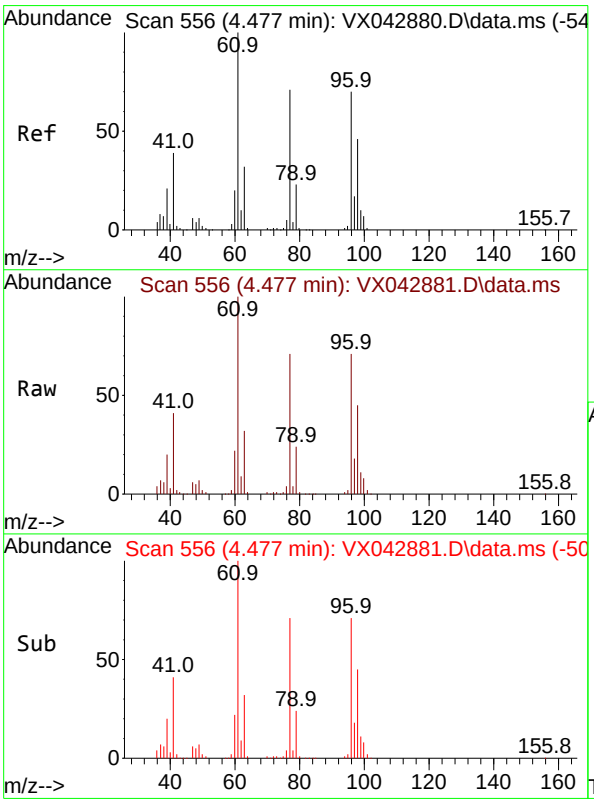
Ion	Ratio	Lower	Upper
43	100		
72	26.9	19.4	29.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

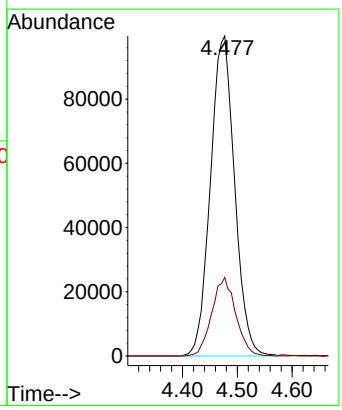


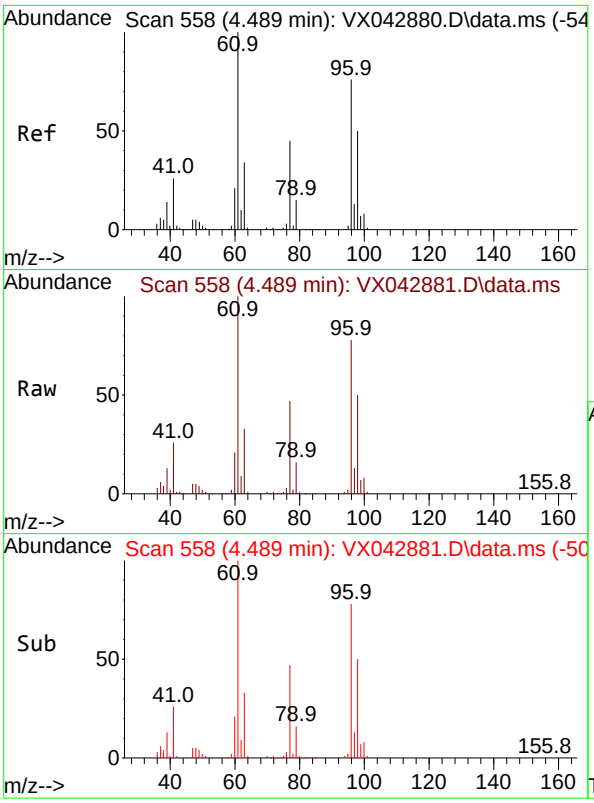


#26
2,2-Dichloropropane
Concen: 98.460 ug/l
RT: 4.477 min Scan# 556
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 77 Resp: 305176

Ion	Ratio	Lower	Upper
77	100		
97	24.2	10.8	32.3

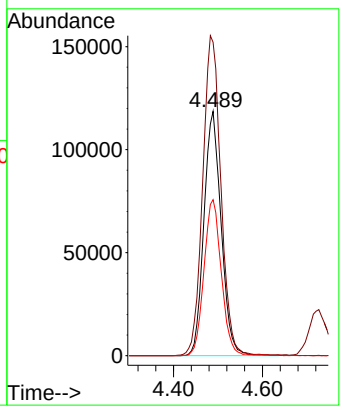




#27
cis-1,2-Dichloroethene
Concen: 101.556 ug/l
RT: 4.489 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 96 Resp: 32000

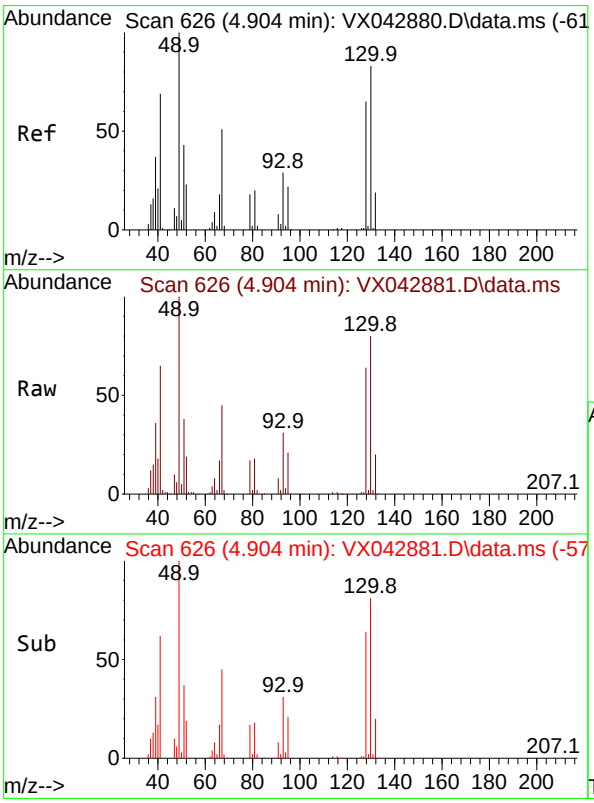
Ion	Ratio	Lower	Upper
96	100		
61	138.5	0.0	312.2
98	64.2	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

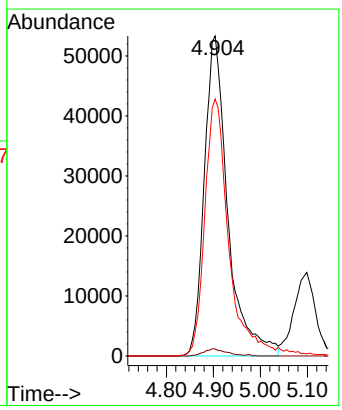
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

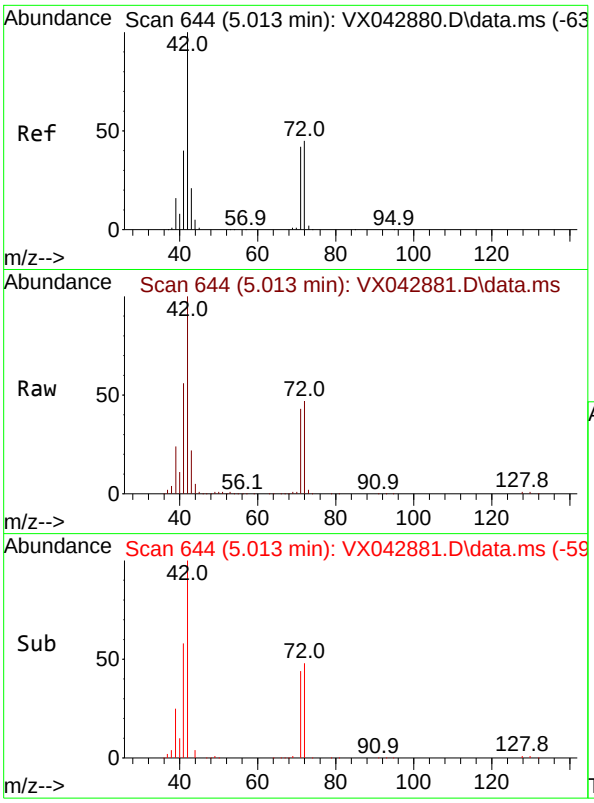


#28
Bromochloromethane
Concen: 95.839 ug/l
RT: 4.904 min Scan# 626
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 49 Resp: 185406

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	3.8
130	82.2	57.5	86.3

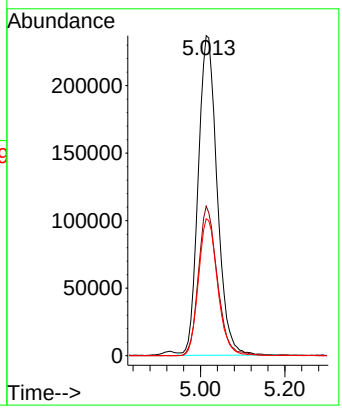




#29
Tetrahydrofuran
Concen: 488.235 ug/l
RT: 5.013 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 42 Resp: 73917

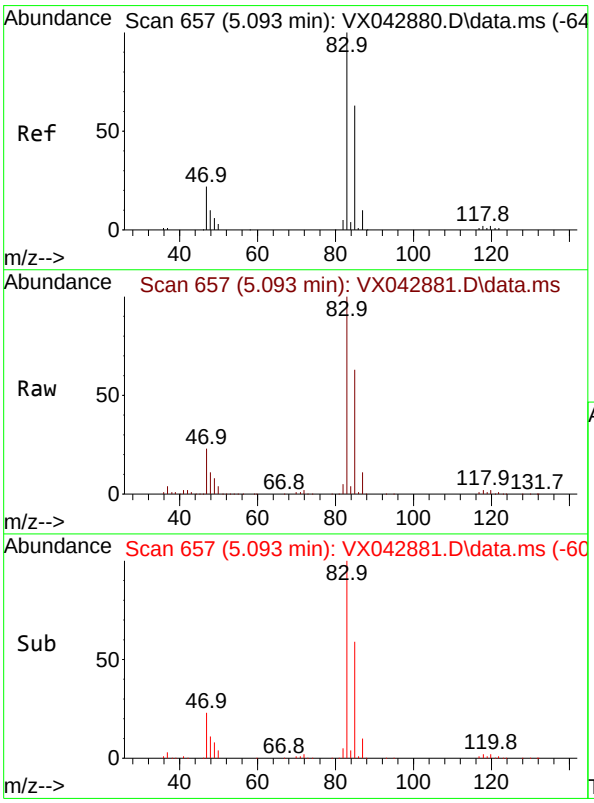
Ion	Ratio	Lower	Upper
42	100		
72	46.6	34.2	51.4
71	43.2	32.2	48.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

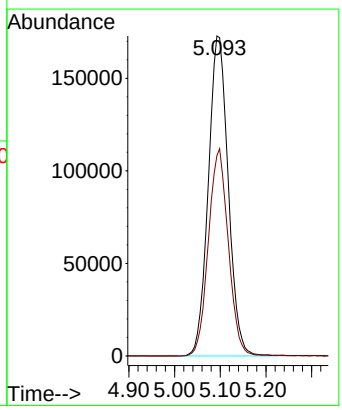
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

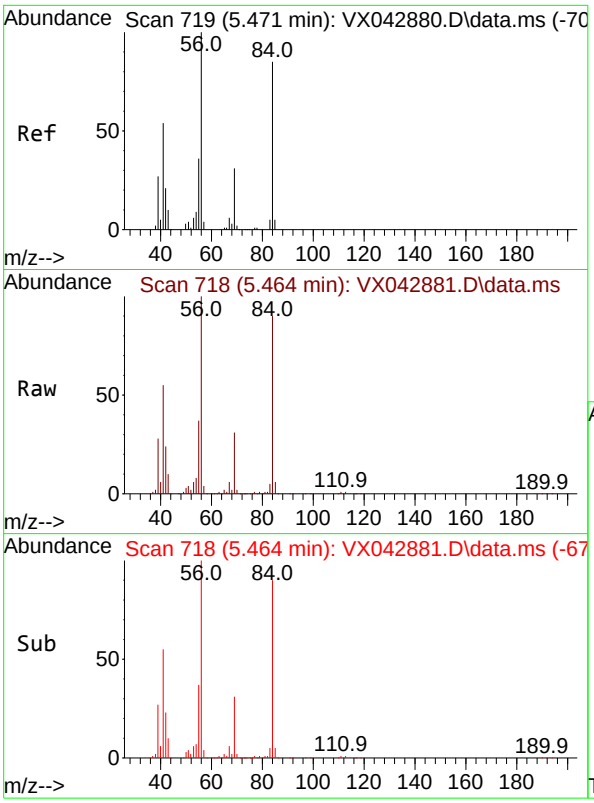


#30
Chloroform
Concen: 99.151 ug/l
RT: 5.093 min Scan# 657
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 83 Resp: 523323

Ion	Ratio	Lower	Upper
83	100		
85	62.7	50.3	75.5





#31
Cyclohexane
Concen: 101.204 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

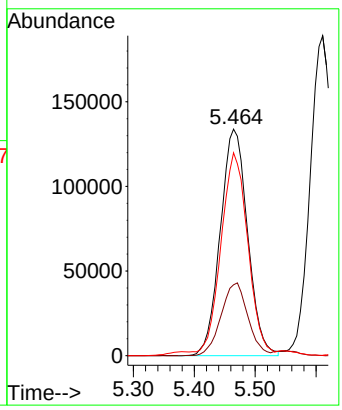
Tgt Ion: 56 Resp: 41652

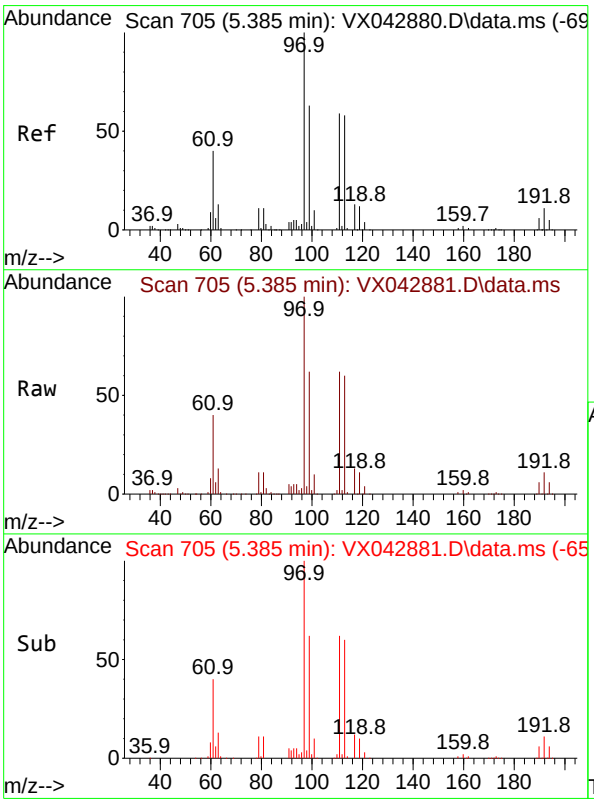
Ion	Ratio	Lower	Upper
56	100		
69	31.3	23.4	35.2
84	87.9	65.9	98.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

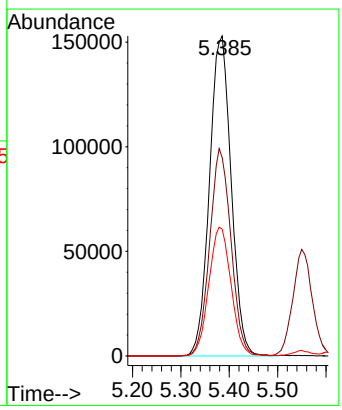


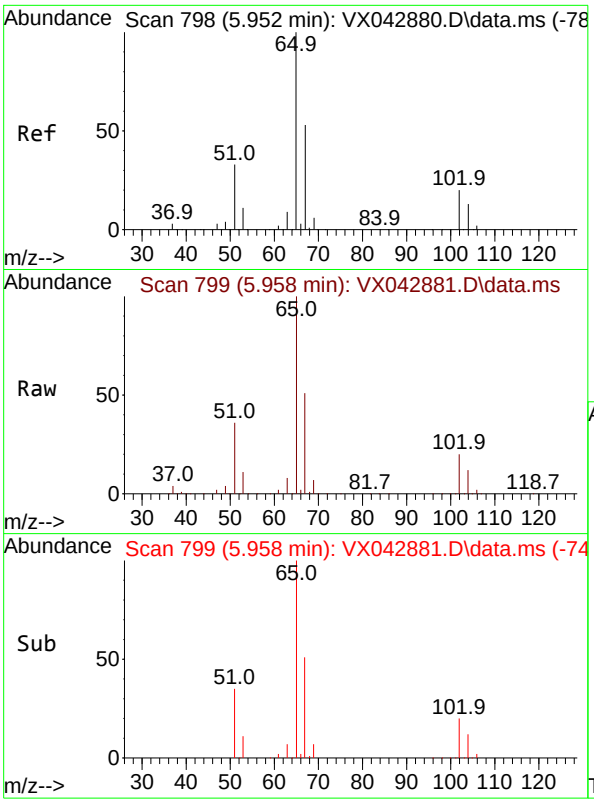


#32
1,1,1-Trichloroethane
Concen: 102.615 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 97 Resp: 476787

Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.1	76.7
61	41.3	36.4	54.6

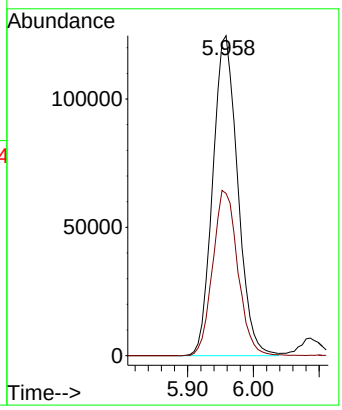




#33
1,2-Dichloroethane-d4
Concen: 100.082 ug/l
RT: 5.958 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 65 Resp: 32919

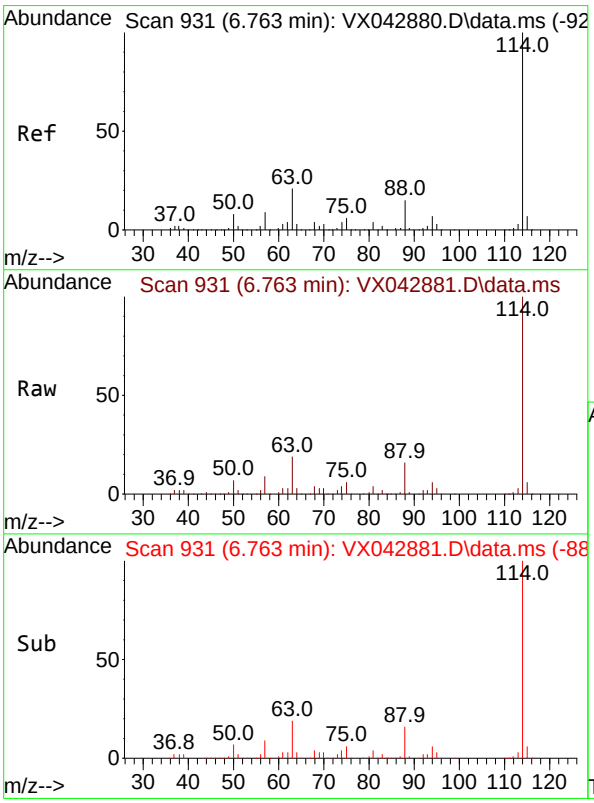
Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	100.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

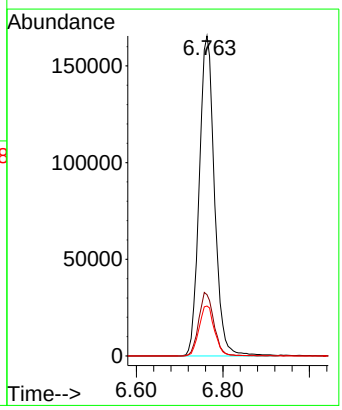
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

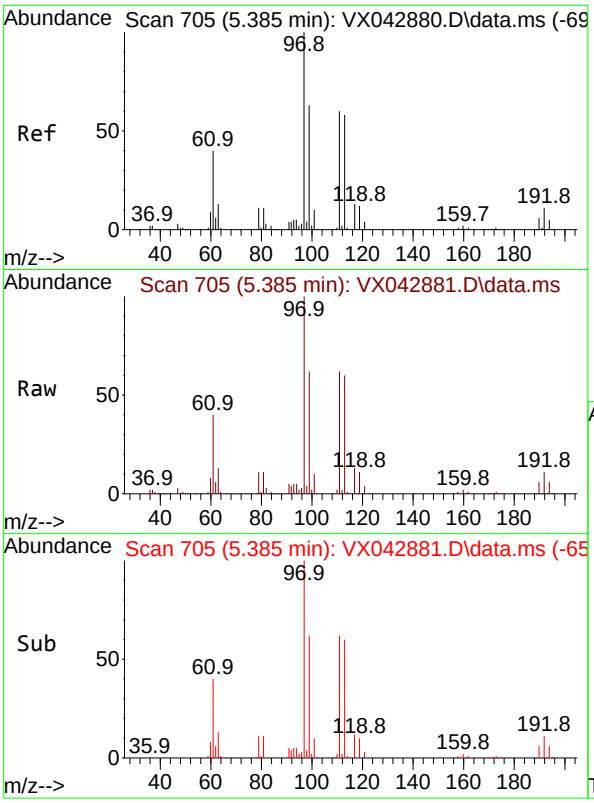


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion:114 Resp: 404077

Ion	Ratio	Lower	Upper
114	100		
63	19.1	0.0	45.0
88	15.6	0.0	36.6

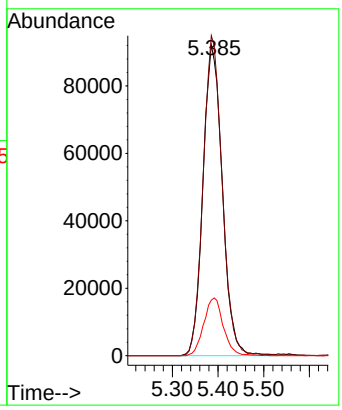




#35
Dibromofluoromethane
Concen: 102.643 ug/l
RT: 5.385 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion:113 Resp: 27118

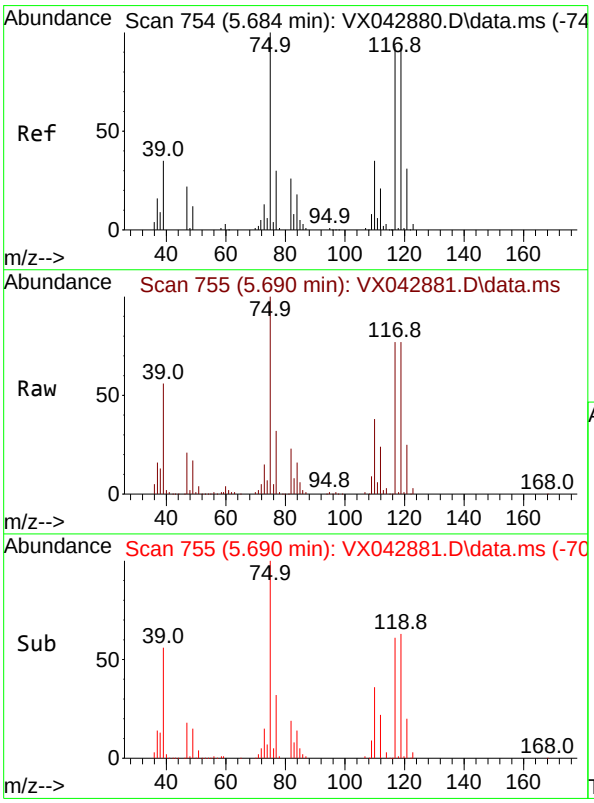
Ion	Ratio	Lower	Upper
113	100		
111	101.2	82.9	124.3
192	18.8	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

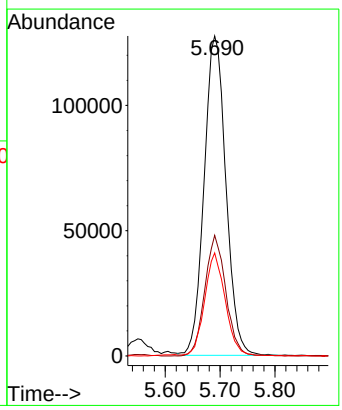
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

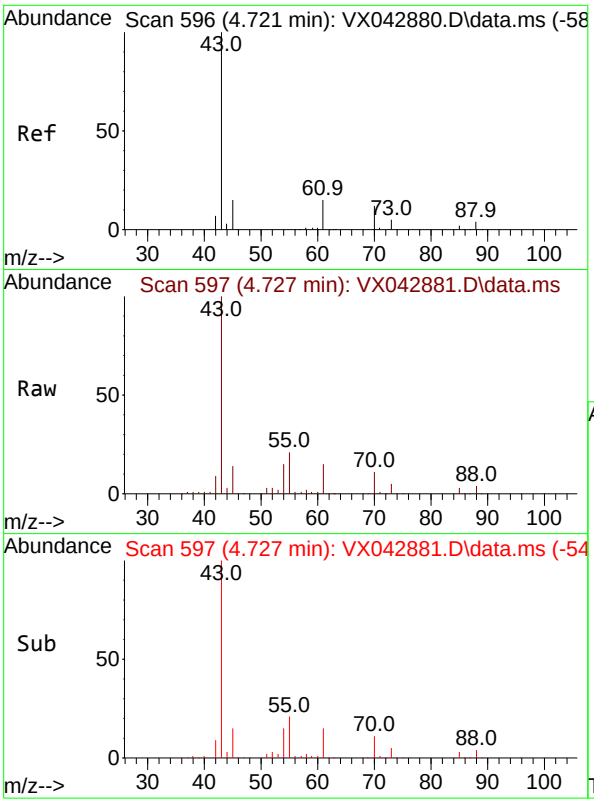


#36
1,1-Dichloropropene
Concen: 98.128 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.006 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 75 Resp: 351504

Ion	Ratio	Lower	Upper
75	100		
110	36.5	17.0	50.9
77	30.8	24.7	37.1

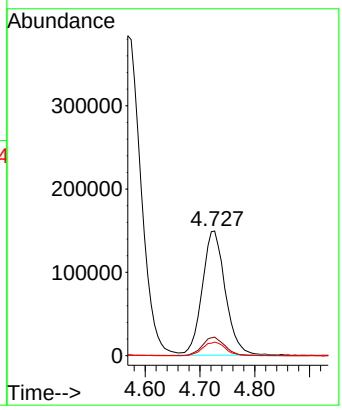




#37
Ethyl Acetate
Concen: 97.180 ug/l
RT: 4.727 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 43 Resp: 43554

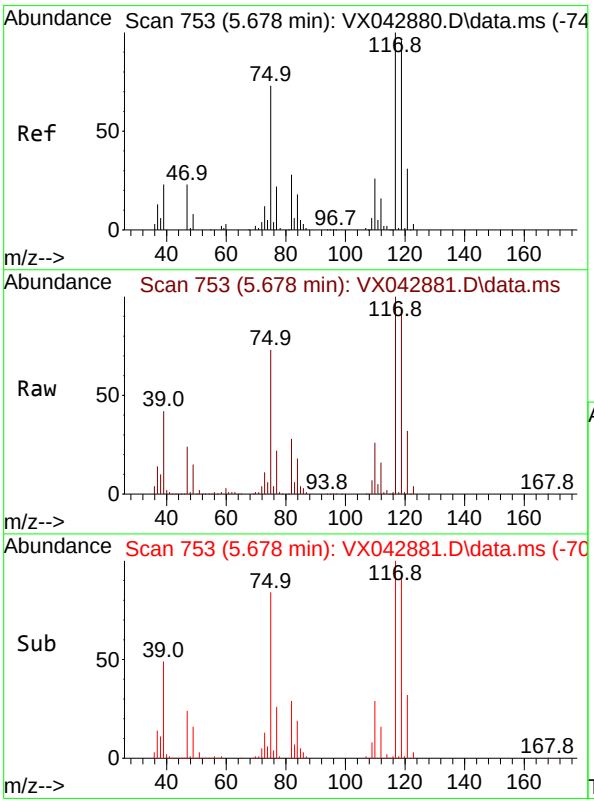
Ion	Ratio	Lower	Upper
43	100		
61	14.3	10.6	16.0
70	10.8	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

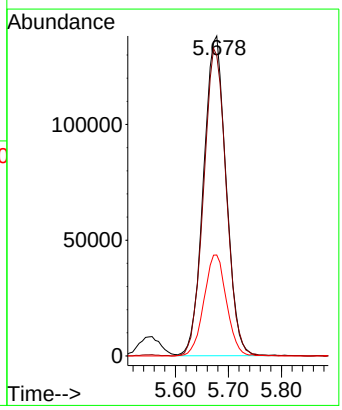
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

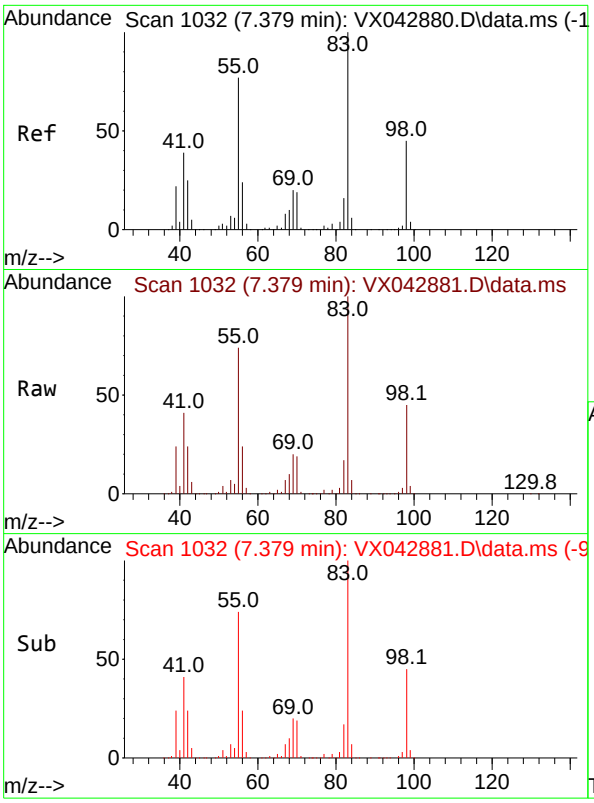


#38
Carbon Tetrachloride
Concen: 100.960 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion:117 Resp: 408243

Ion	Ratio	Lower	Upper
117	100		
119	93.8	78.2	117.2
121	31.6	24.4	36.6

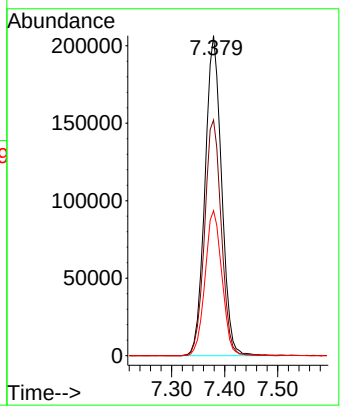




#39
Methylcyclohexane
Concen: 105.427 ug/l
RT: 7.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 83 Resp: 44893

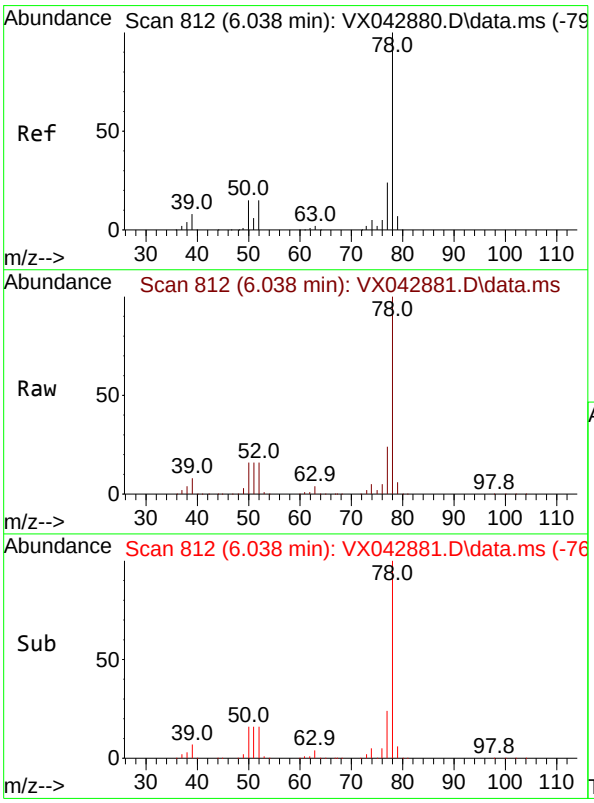
Ion	Ratio	Lower	Upper
83	100		
55	73.6	64.6	97.0
98	45.3	36.7	55.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

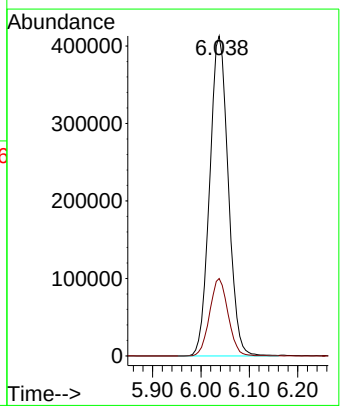
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

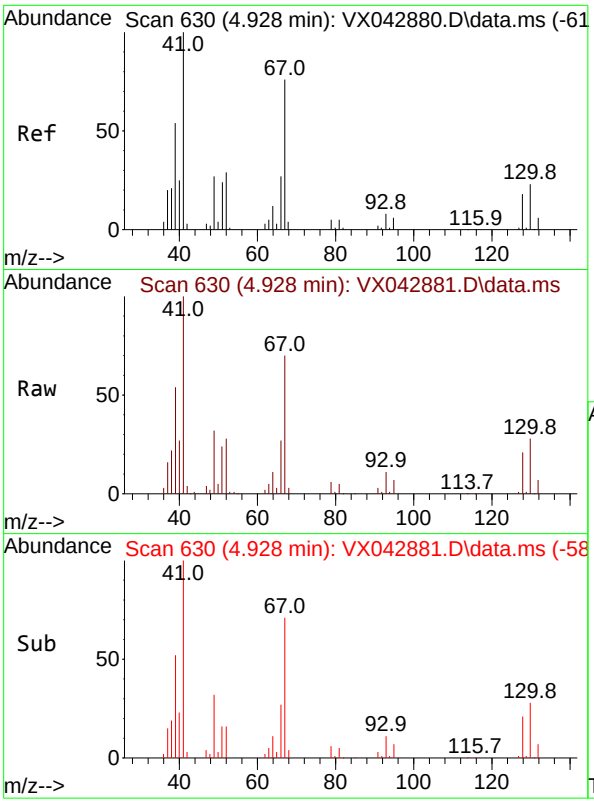


#40
Benzene
Concen: 98.901 ug/l
RT: 6.038 min Scan# 812
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 78 Resp: 1099513

Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.3	28.9

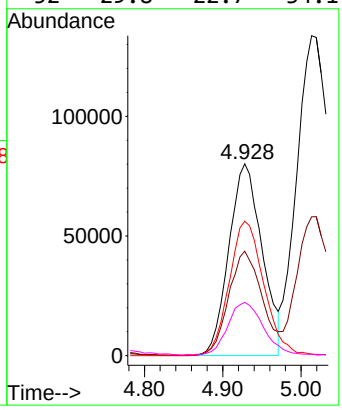




#41
Methacrylonitrile
Concen: 102.344 ug/l
RT: 4.928 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 41 Resp: 23625

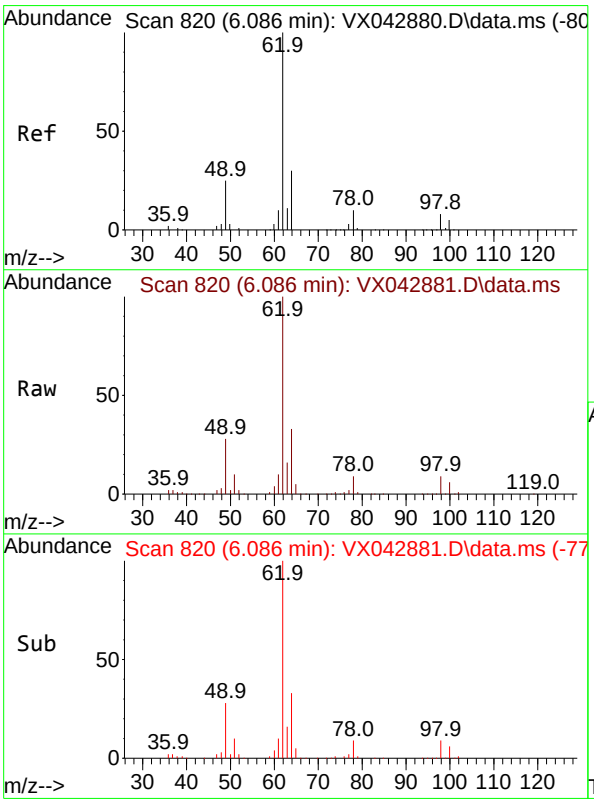
Ion	Ratio	Lower	Upper
41	100		
39	54.4	45.2	67.8
67	73.5	52.6	78.8
52	29.8	22.7	34.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

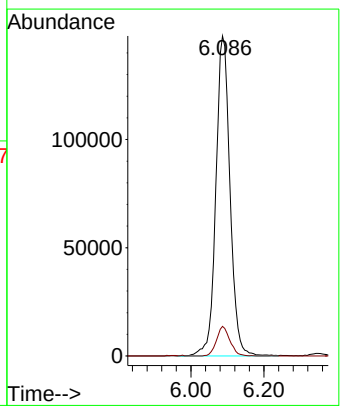
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

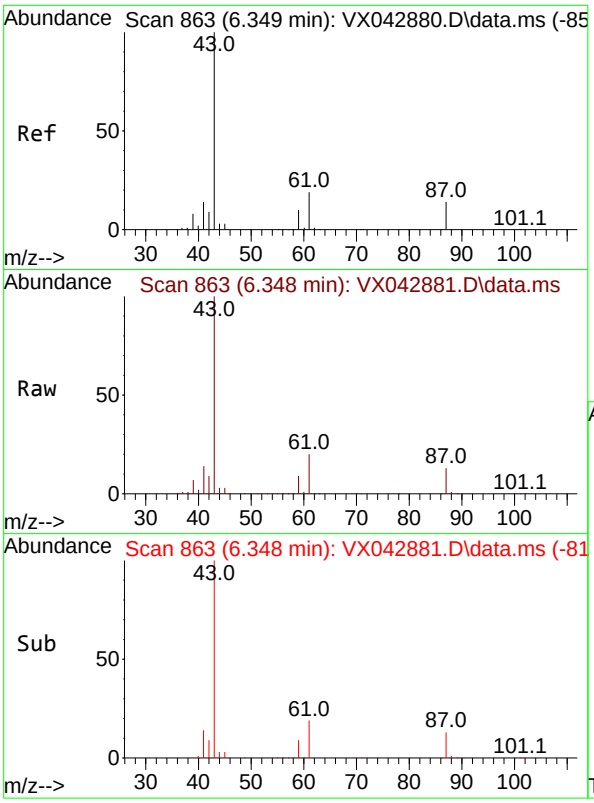


#42
1,2-Dichloroethane
Concen: 98.338 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 62 Resp: 397654

Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	16.0





#43
Isopropyl Acetate
Concen: 104.074 ug/l
RT: 6.348 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

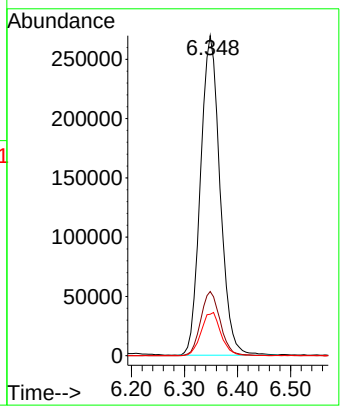
Tgt Ion: 43 Resp: 68982

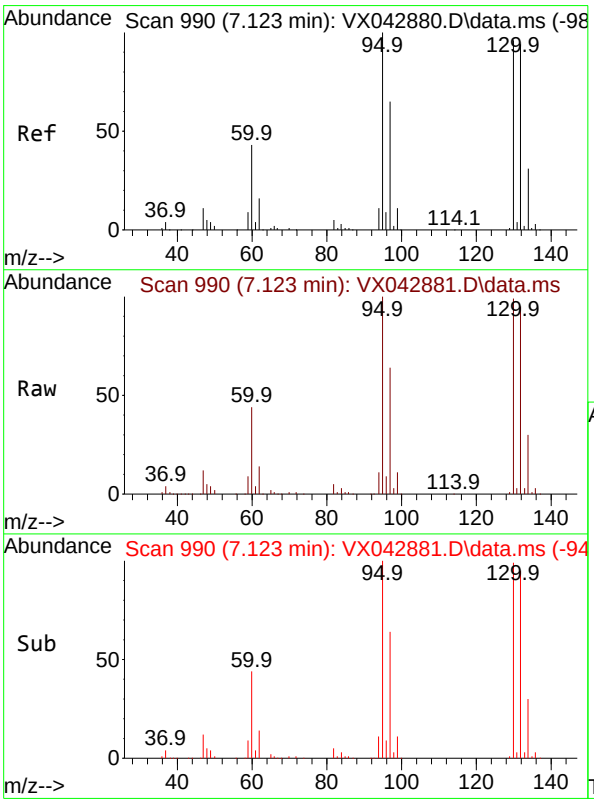
Ion	Ratio	Lower	Upper
43	100		
61	20.0	15.2	22.8
87	13.7	9.8	14.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

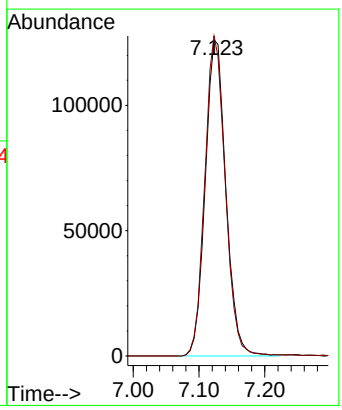


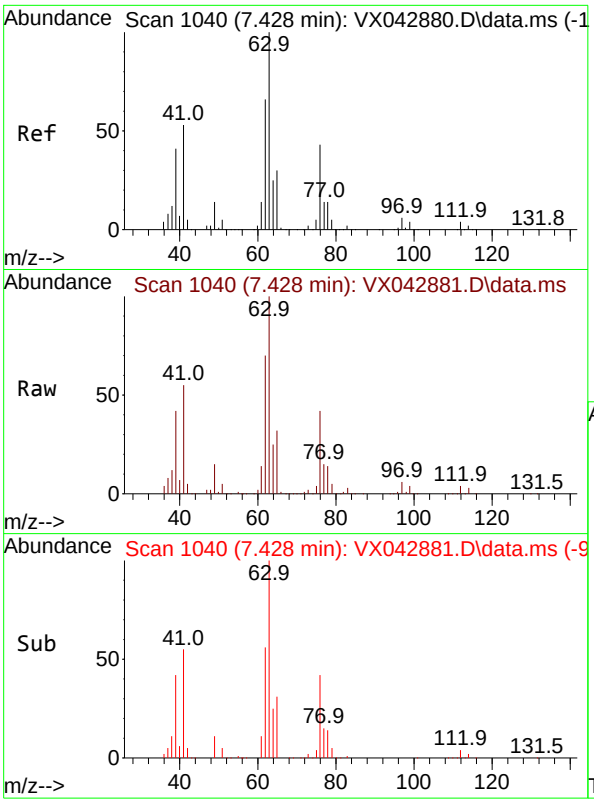


#44
Trichloroethene
Concen: 98.798 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion:130 Resp: 275986

Ion	Ratio	Lower	Upper
130	100		
95	101.2	0.0	204.4

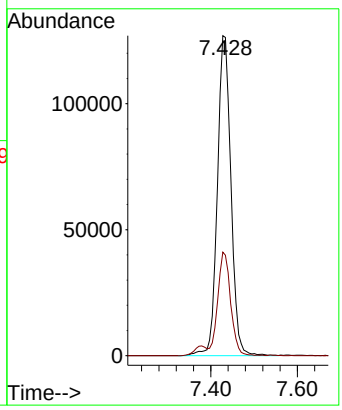




#45
1,2-Dichloropropane
Concen: 97.840 ug/l
RT: 7.428 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 63 Resp: 27592

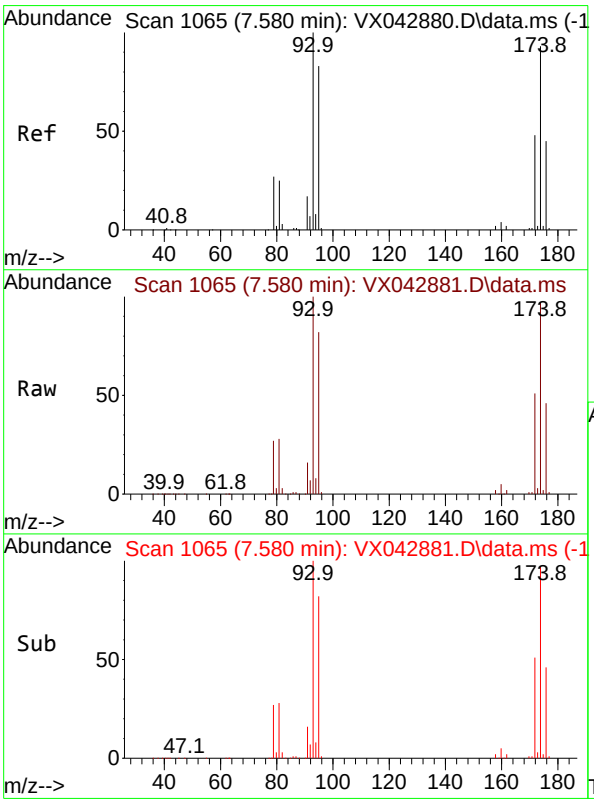
Ion	Ratio	Lower	Upper
63	100		
65	32.4	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

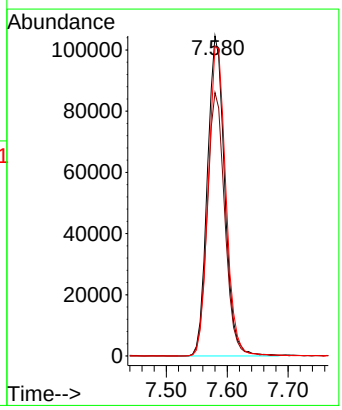
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

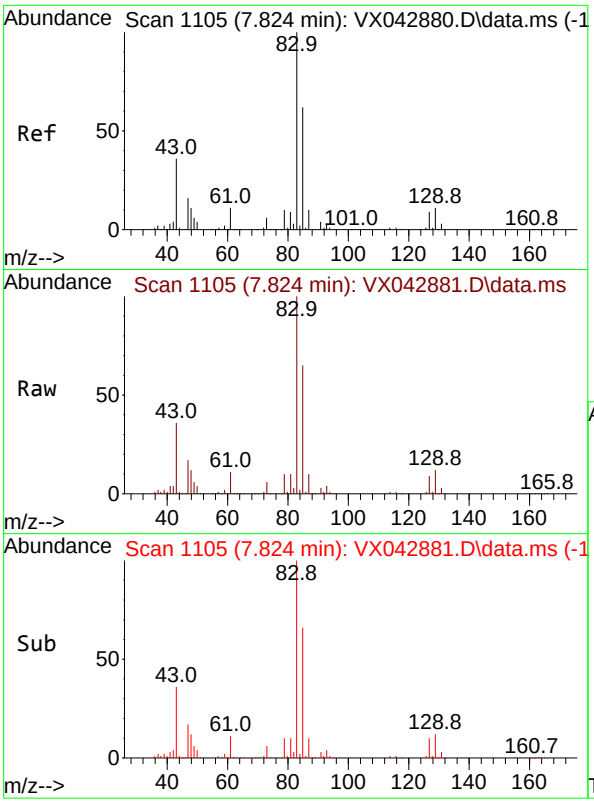


#46
Dibromomethane
Concen: 99.890 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 93 Resp: 206898

Ion	Ratio	Lower	Upper
93	100		
95	83.1	66.6	100.0
174	98.2	69.4	104.0

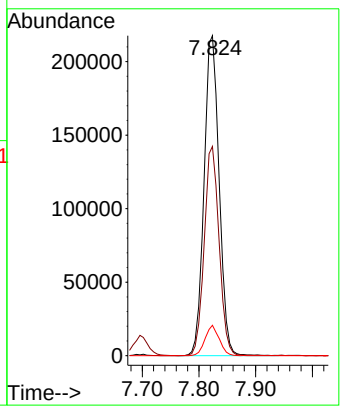




#47
Bromodichloromethane
Concen: 104.390 ug/l
RT: 7.824 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 83 Resp: 40166

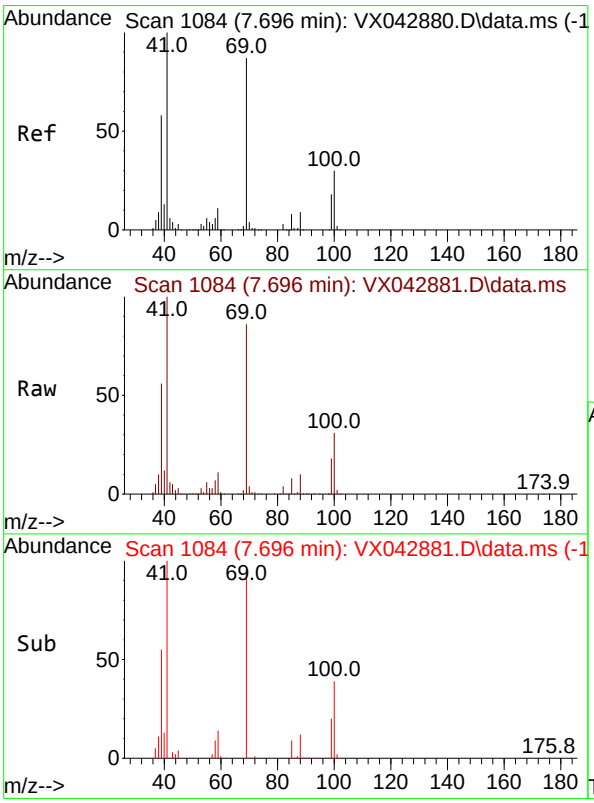
Ion	Ratio	Lower	Upper
83	100		
85	65.4	49.8	74.6
127	9.5	7.1	10.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

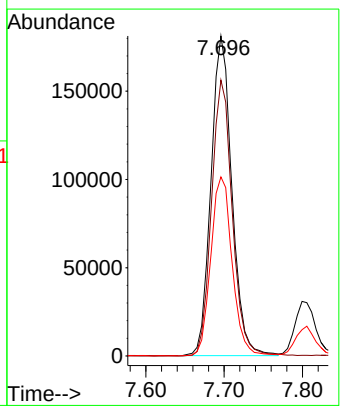
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

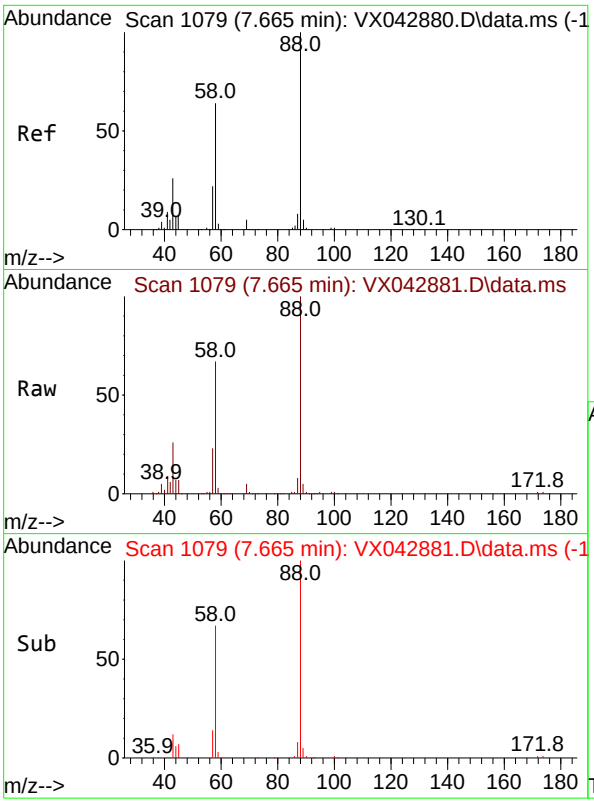


#48
Methyl methacrylate
Concen: 105.758 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 41 Resp: 336126

Ion	Ratio	Lower	Upper
41	100		
69	86.0	59.2	88.8
39	57.1	47.7	71.5

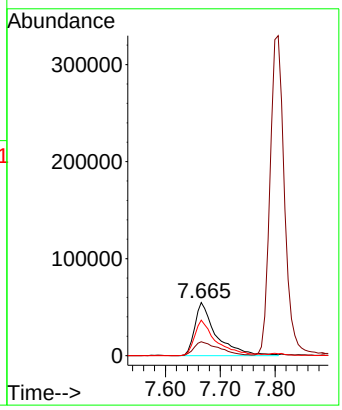




#49
1,4-Dioxane
Concen: 2015.621 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 88 Resp: 14811

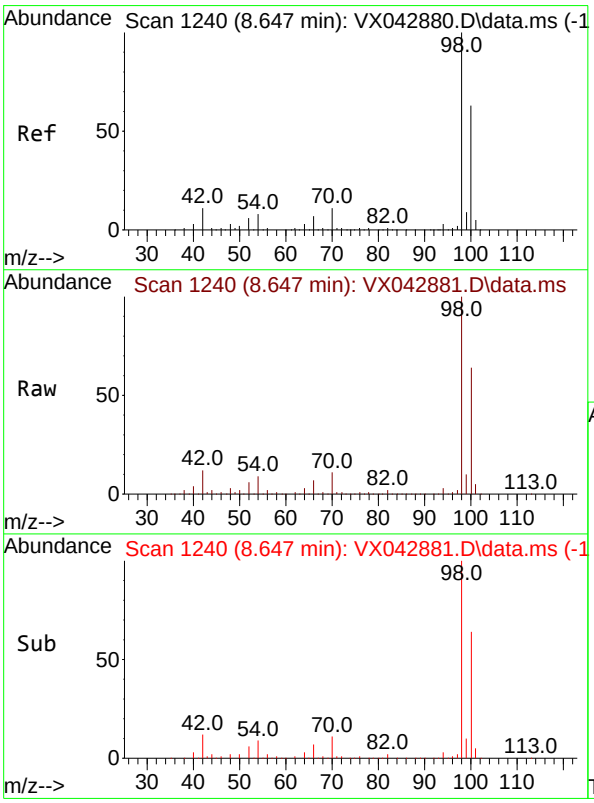
Ion	Ratio	Lower	Upper
88	100		
43	31.1	0.0	0.0
58	67.2	60.1	90.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

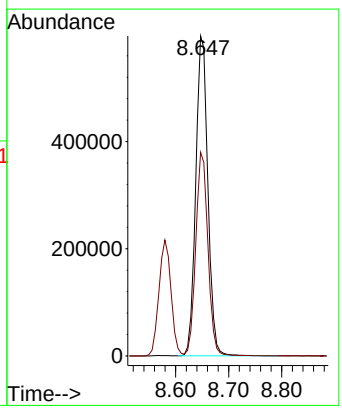
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

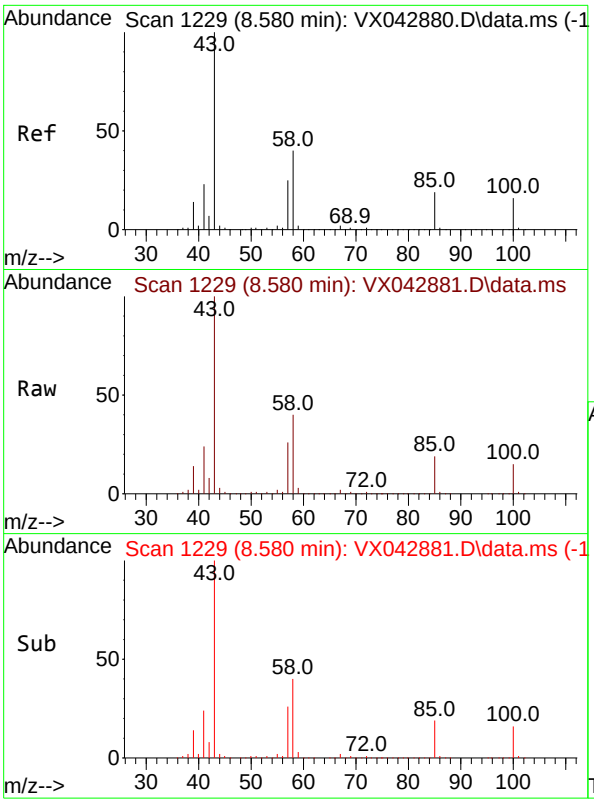


#50
Toluene-d8
Concen: 100.803 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 98 Resp: 945465

Ion	Ratio	Lower	Upper
98	100		
100	64.1	53.1	79.7





#51
4-Methyl-2-Pentanone
Concen: 504.467 ug/l
RT: 8.580 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

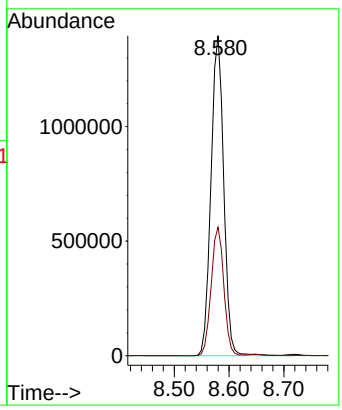
Tgt Ion: 43 Resp: 223975

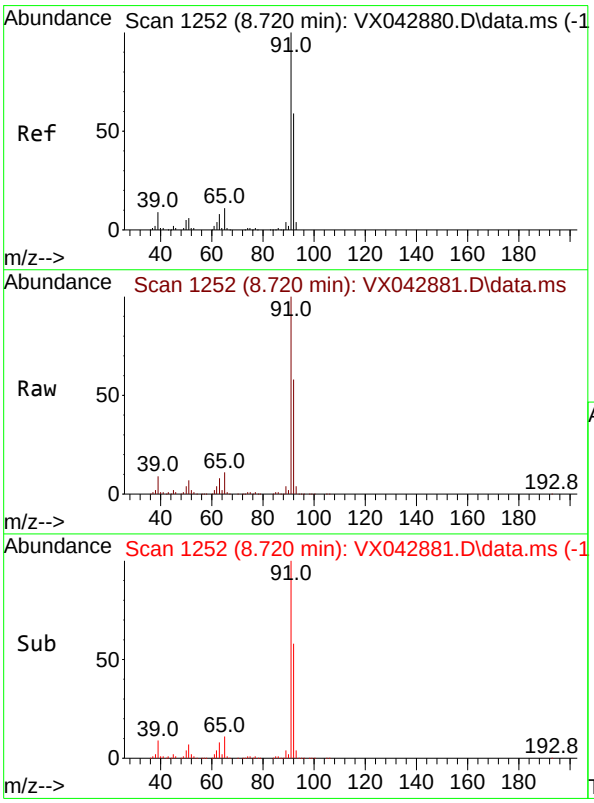
Ion	Ratio	Lower	Upper
43	100		
58	39.9	30.4	45.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

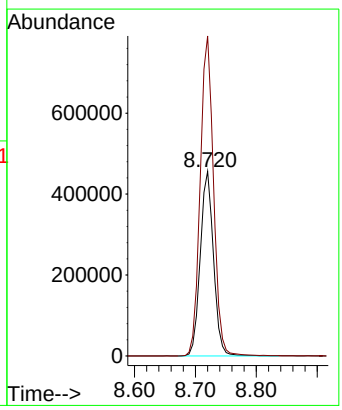


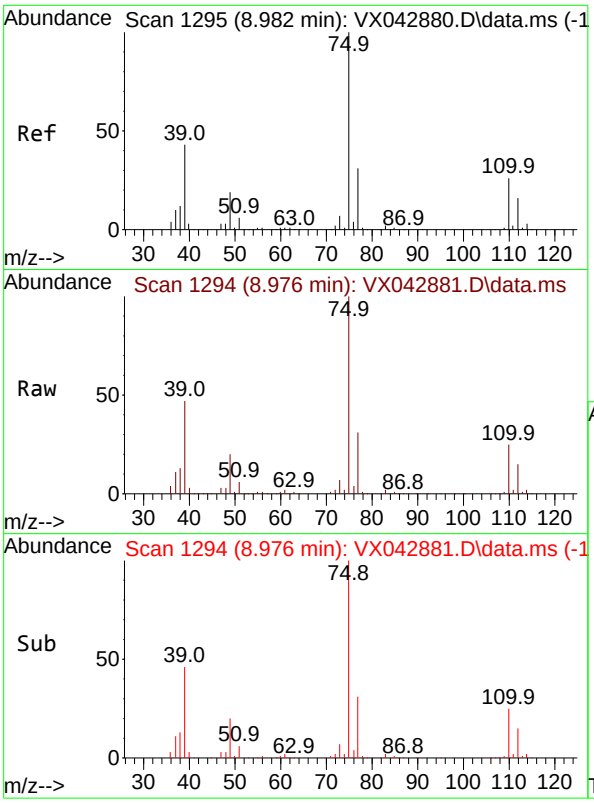


#52
Toluene
Concen: 101.993 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 92 Resp: 687792

Ion	Ratio	Lower	Upper
92	100		
91	175.1	134.2	201.2

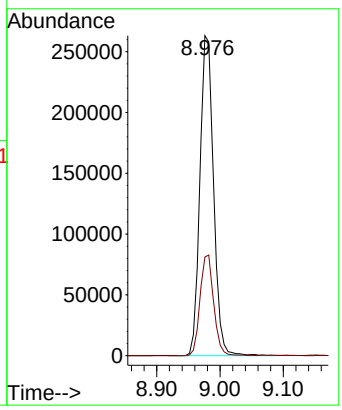




#53
t-1,3-Dichloropropene
Concen: 111.266 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 75 Resp: 39575

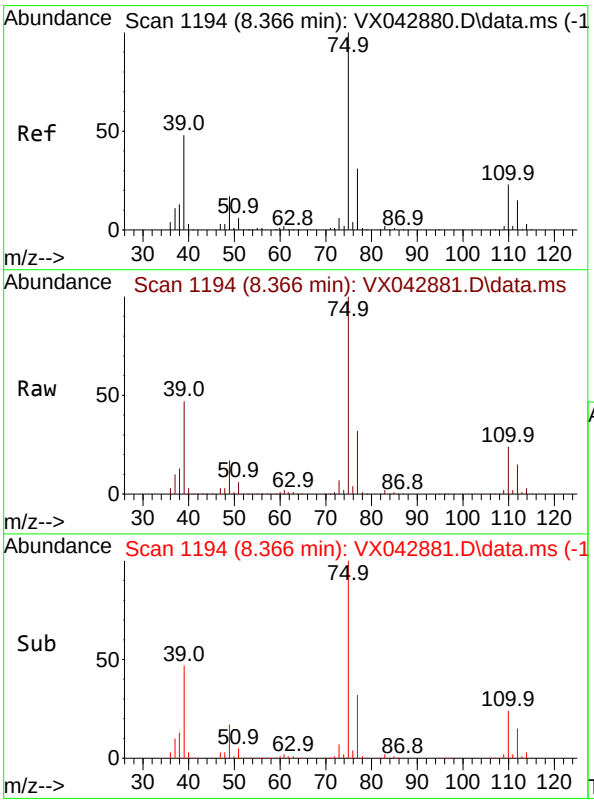
Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

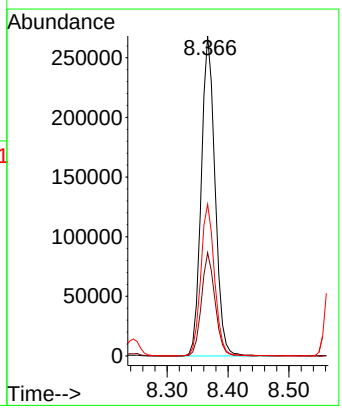
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

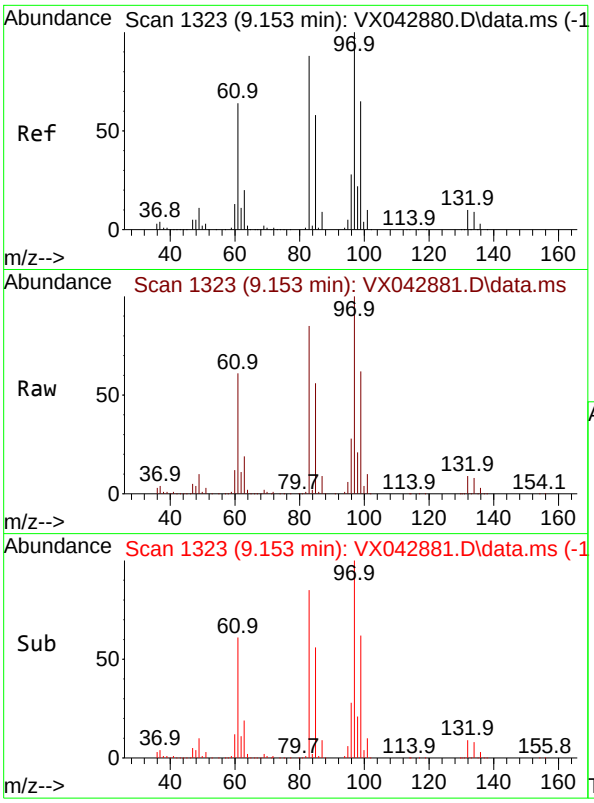


#54
cis-1,3-Dichloropropene
Concen: 107.618 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 75 Resp: 422736

Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.3	37.9
39	47.3	46.7	70.1

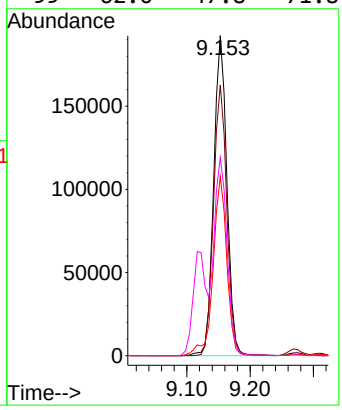




#55
1,1,2-Trichloroethane
Concen: 102.011 ug/l
RT: 9.153 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 97 Resp: 27965

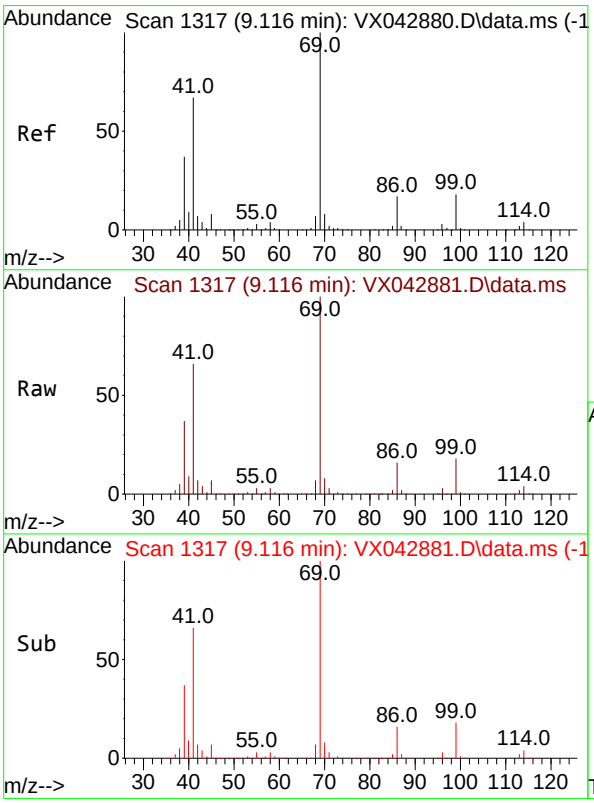
Ion	Ratio	Lower	Upper
97	100		
83	84.6	65.8	98.8
85	56.0	41.6	62.4
99	62.0	47.8	71.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

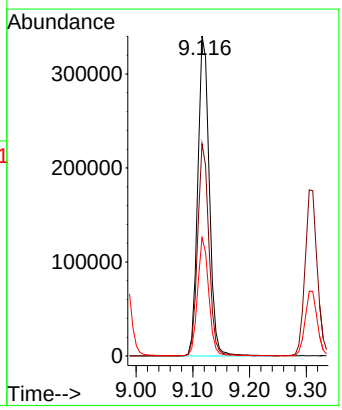
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

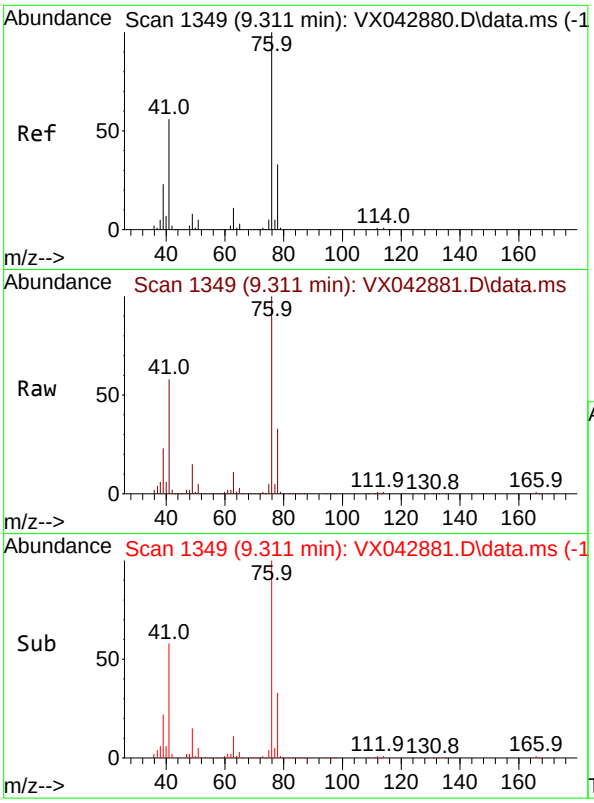


#56
Ethyl methacrylate
Concen: 108.588 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 69 Resp: 479033

Ion	Ratio	Lower	Upper
69	100		
41	65.1	56.8	85.2
39	35.6	32.0	48.0





#57
1,3-Dichloropropane
Concen: 100.929 ug/l
RT: 9.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

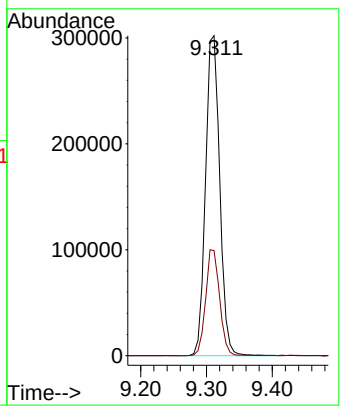
Tgt Ion: 76 Resp: 45326

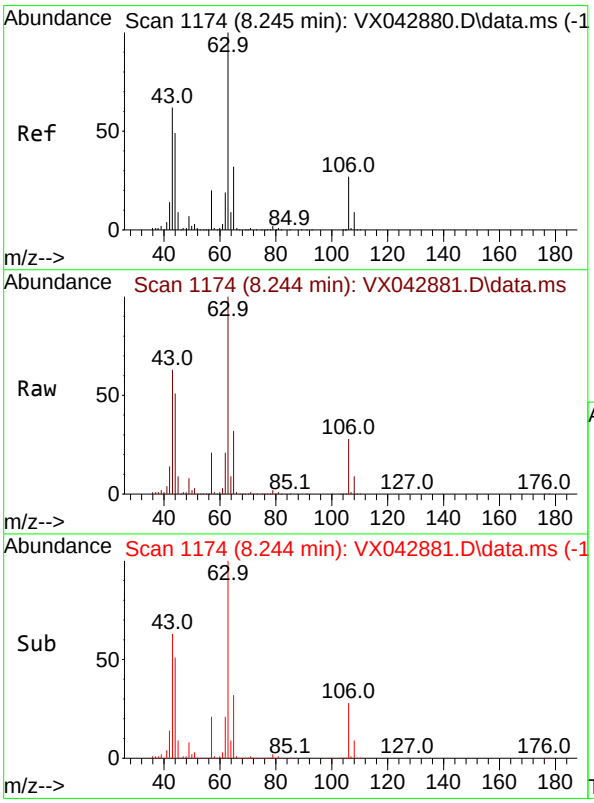
Ion	Ratio	Lower	Upper
76	100		
78	32.7	26.1	39.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

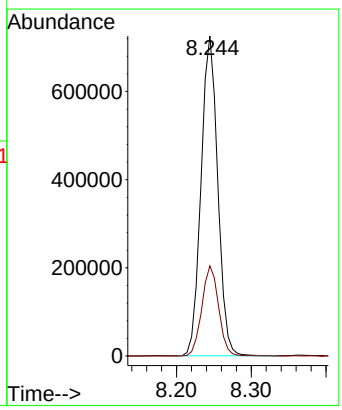


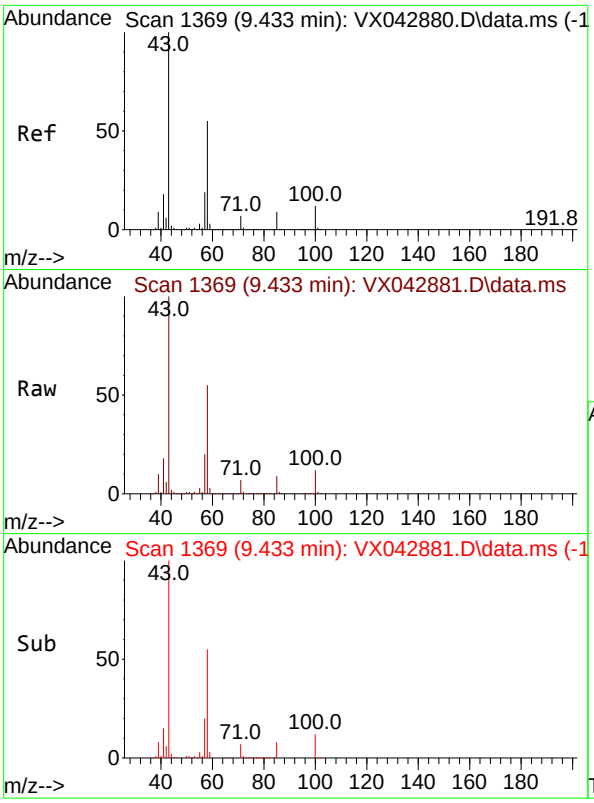


#58
2-Chloroethyl Vinyl ether
Concen: 540.096 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 63 Resp: 1122954

Ion	Ratio	Lower	Upper
63	100		
106	28.3	22.5	33.7





#59
2-Hexanone
Concen: 507.789 ug/l
RT: 9.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

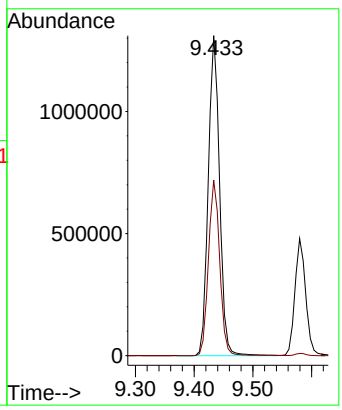
Tgt Ion: 43 Resp: 174694

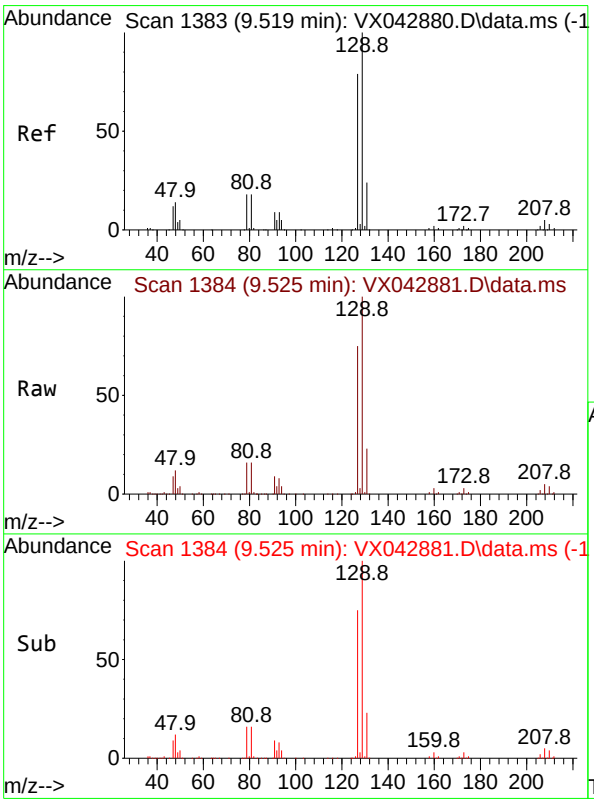
Ion	Ratio	Lower	Upper
43	100		
58	55.0	26.2	78.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

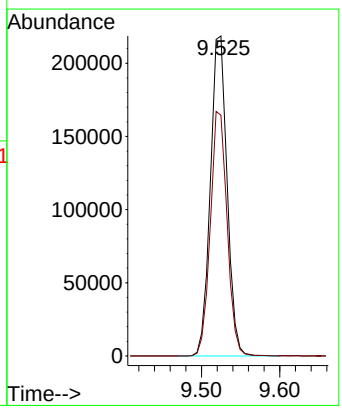


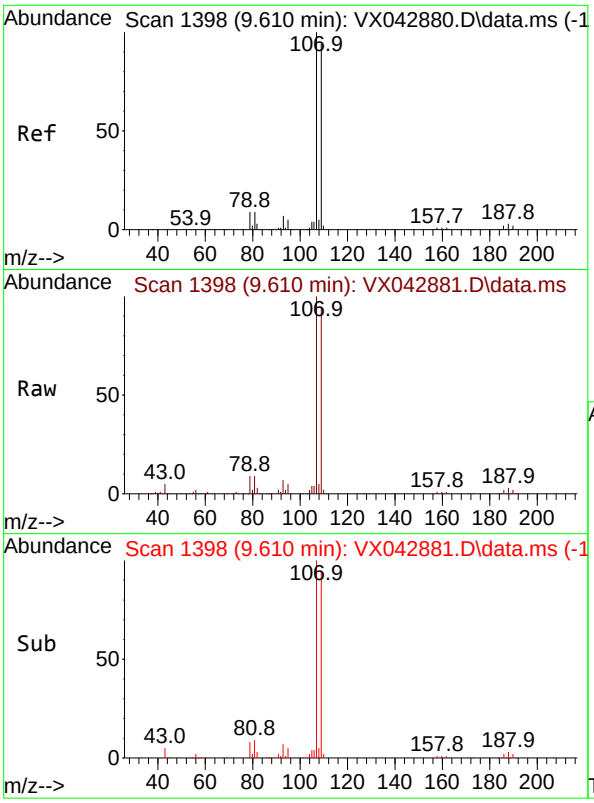


#60
Dibromochloromethane
Concen: 107.485 ug/l
RT: 9.525 min Scan# 1384
Delta R.T. 0.006 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion:129 Resp: 323698

Ion	Ratio	Lower	Upper
129	100		
127	76.6	38.8	116.4





#61
1,2-Dibromoethane
Concen: 102.193 ug/l
RT: 9.610 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

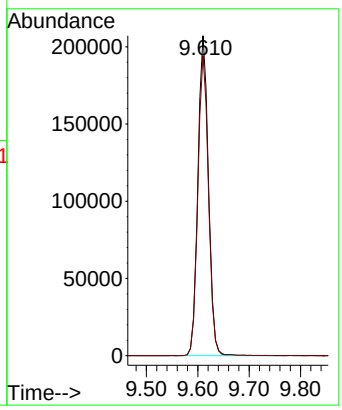
Tgt Ion:107 Resp: 29599

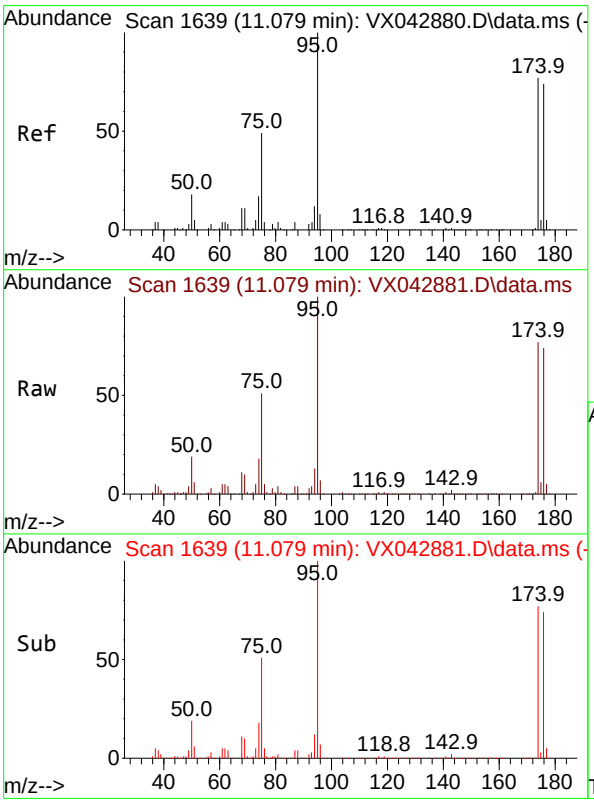
Ion	Ratio	Lower	Upper
107	100		
109	94.3	75.2	112.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

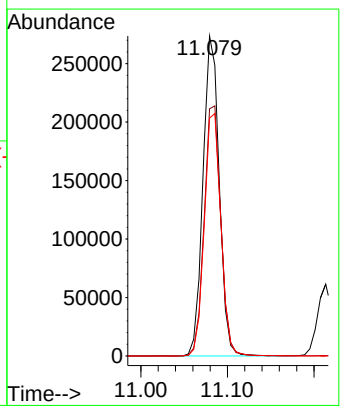


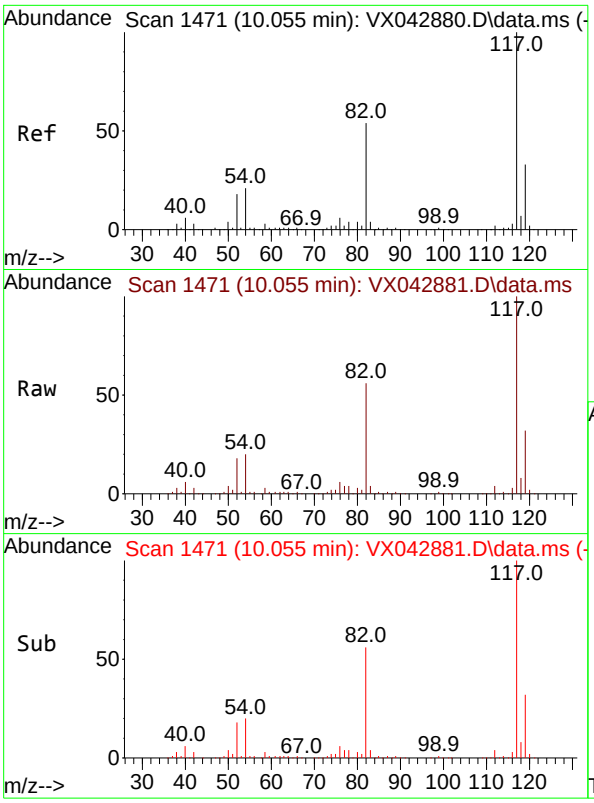


#62
4-Bromofluorobenzene
Concen: 105.715 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 95 Resp: 356307

Ion	Ratio	Lower	Upper
95	100		
174	80.2	0.0	135.6
176	77.5	0.0	131.0





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

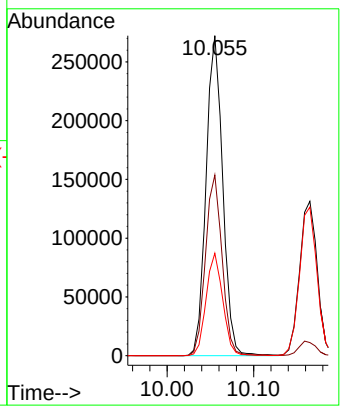
Tgt Ion:117 Resp: 36386

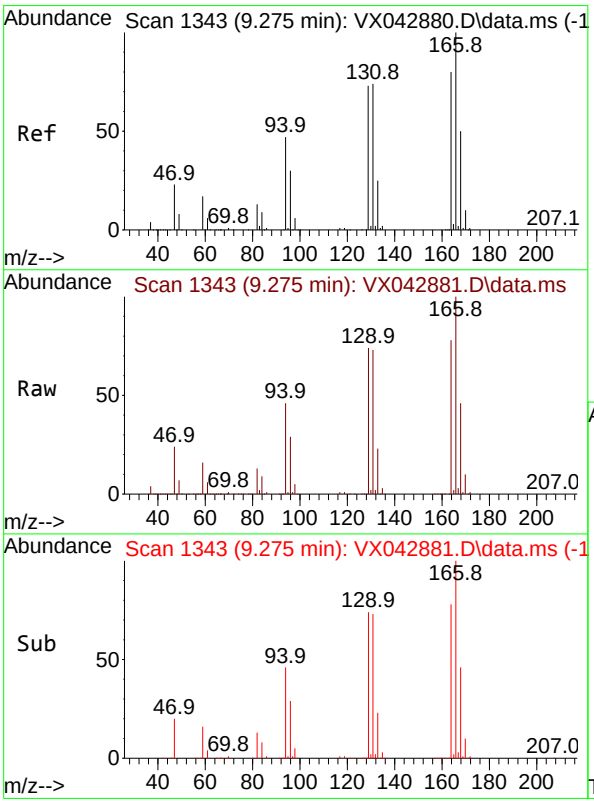
Ion	Ratio	Lower	Upper
117	100		
82	56.5	46.2	69.4
119	32.0	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

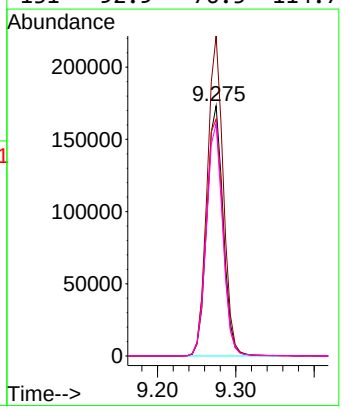


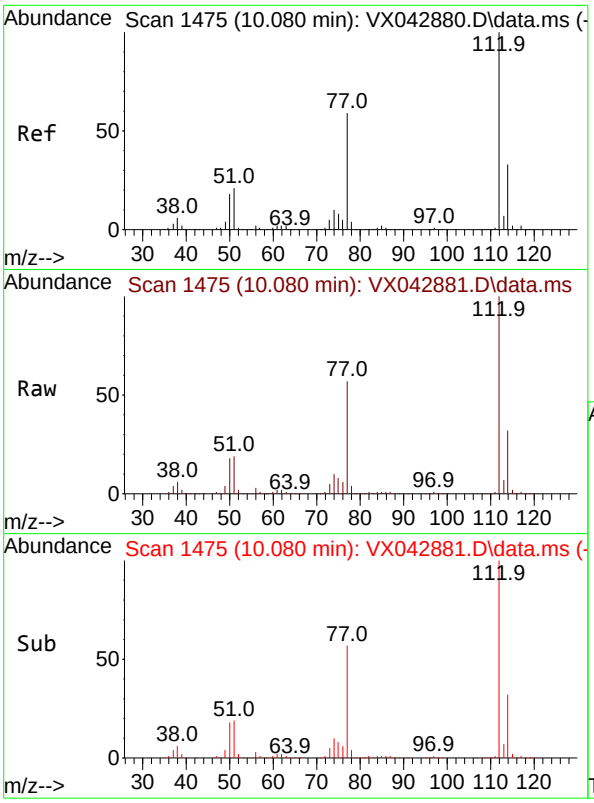


#64
Tetrachloroethene
Concen: 98.685 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion:164 Resp: 249669

Ion	Ratio	Lower	Upper
164	100		
166	128.0	102.7	154.1
129	94.7	80.4	120.6
131	92.9	76.5	114.7

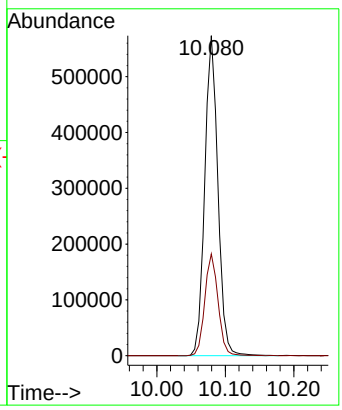




#65
Chlorobenzene
Concen: 99.154 ug/l
RT: 10.080 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion:112 Resp: 76560

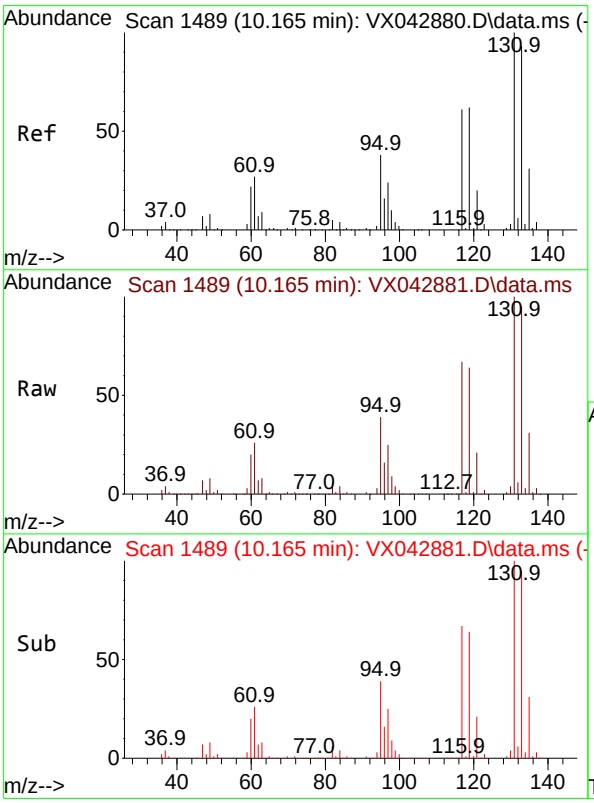
Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

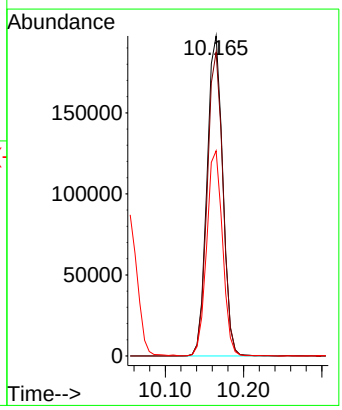
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

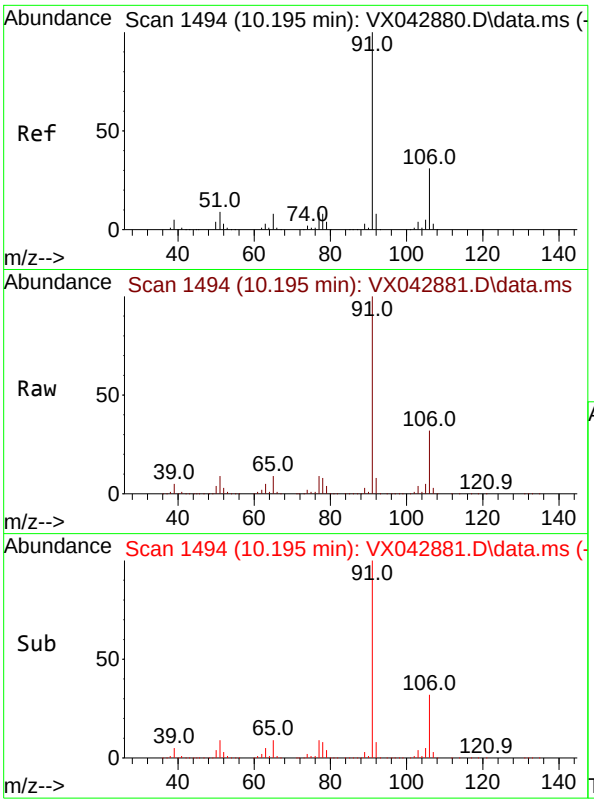


#66
1,1,1,2-Tetrachloroethane
Concen: 103.146 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion:131 Resp: 274617

Ion	Ratio	Lower	Upper
131	100		
133	94.9	47.1	141.4
119	64.4	32.2	96.6





#67
Ethyl Benzene
Concen: 102.520 ug/l
RT: 10.195 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

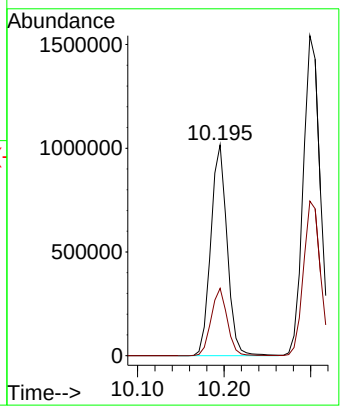
Tgt Ion: 91 Resp: 133151

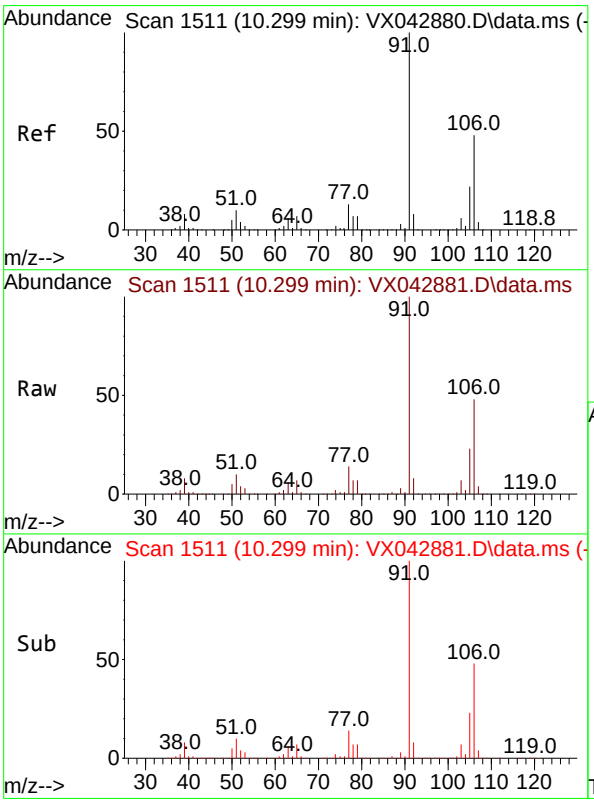
Ion	Ratio	Lower	Upper
91	100		
106	31.9	24.9	37.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

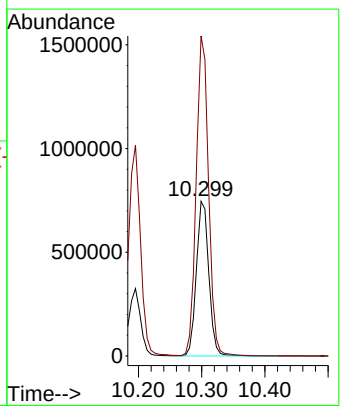


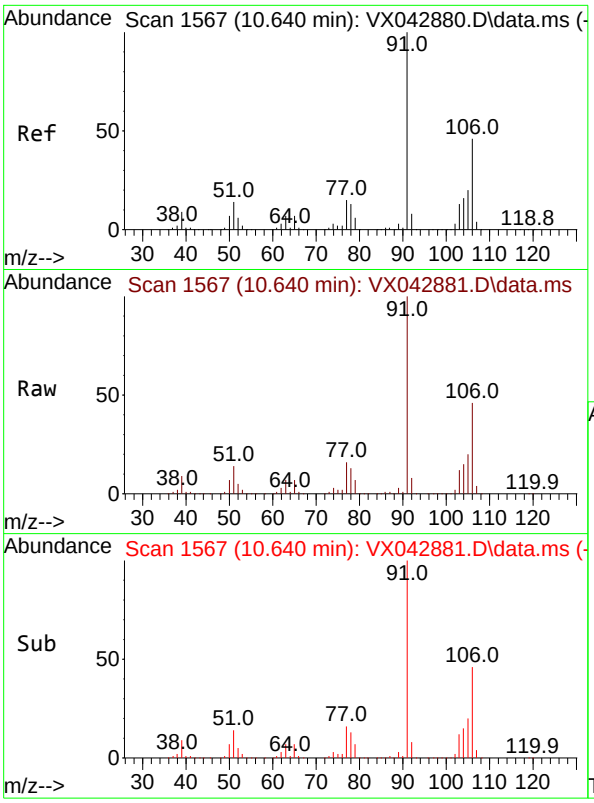


#68
m/p-Xylenes
Concen: 205.869 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion:106 Resp: 1020743

Ion	Ratio	Lower	Upper
106	100		
91	205.8	165.5	248.3





#69
o-Xylene
Concen: 101.612 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

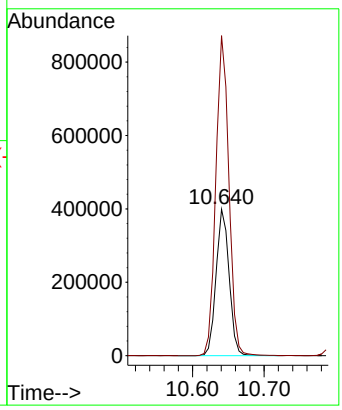
Tgt Ion:106 Resp: 50469

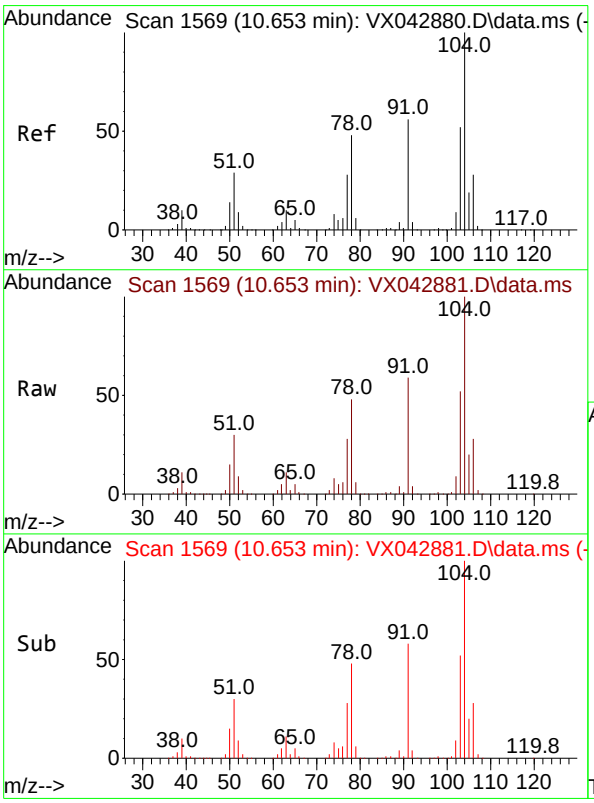
Ion	Ratio	Lower	Upper
106	100		
91	219.1	108.9	326.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

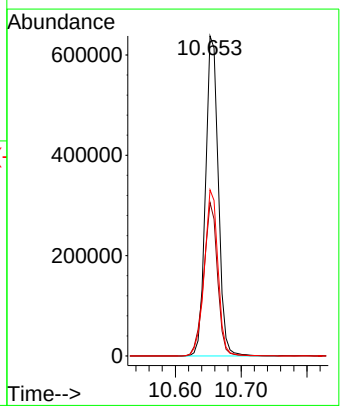


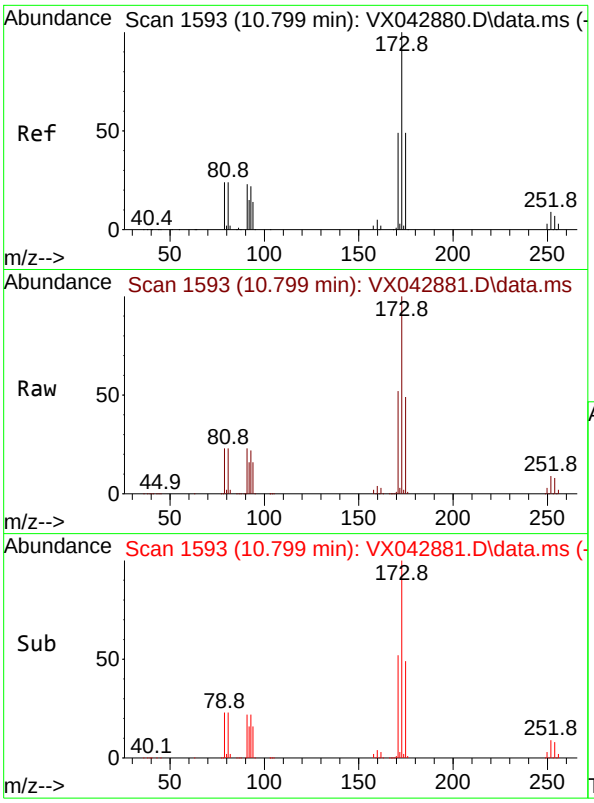


#70
Styrene
Concen: 107.999 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion:104 Resp: 862587

Ion	Ratio	Lower	Upper
104	100		
78	51.5	43.6	65.4
103	55.5	43.6	65.4

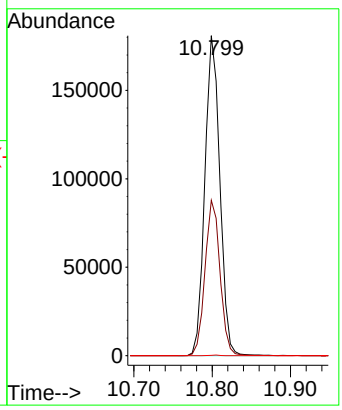




#71
Bromoform
Concen: 101.174 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion:173 Resp: 23976

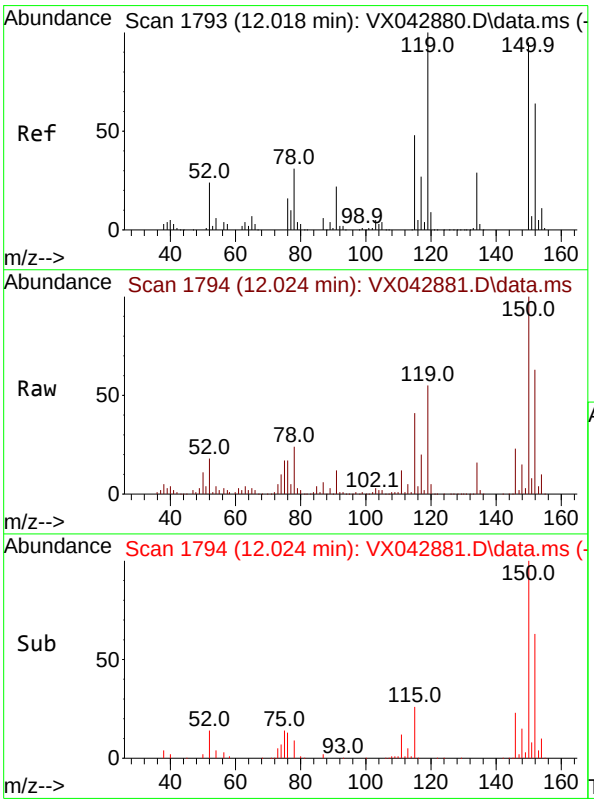
Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.1	72.4
254	0.1	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

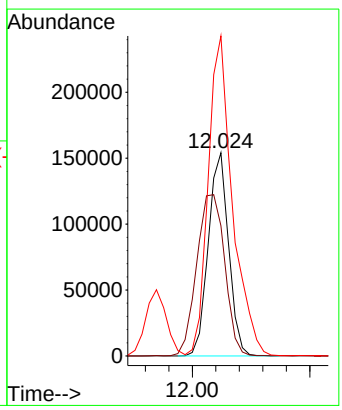
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

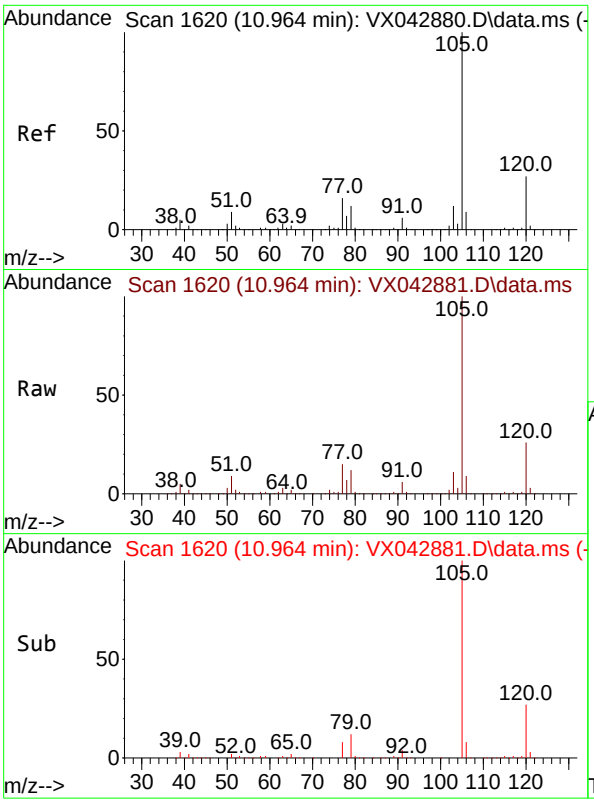


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion:152 Resp: 184824

Ion	Ratio	Lower	Upper
152	100		
115	109.6	43.3	129.9
150	187.8	0.0	345.0

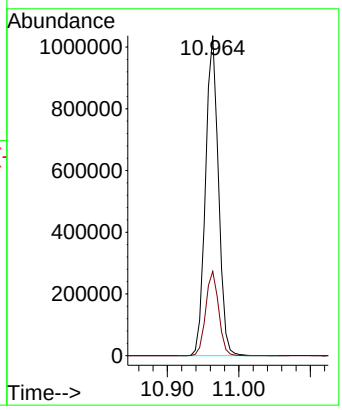




#73
Isopropylbenzene
Concen: 97.462 ug/l
RT: 10.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion:105 Resp: 130234

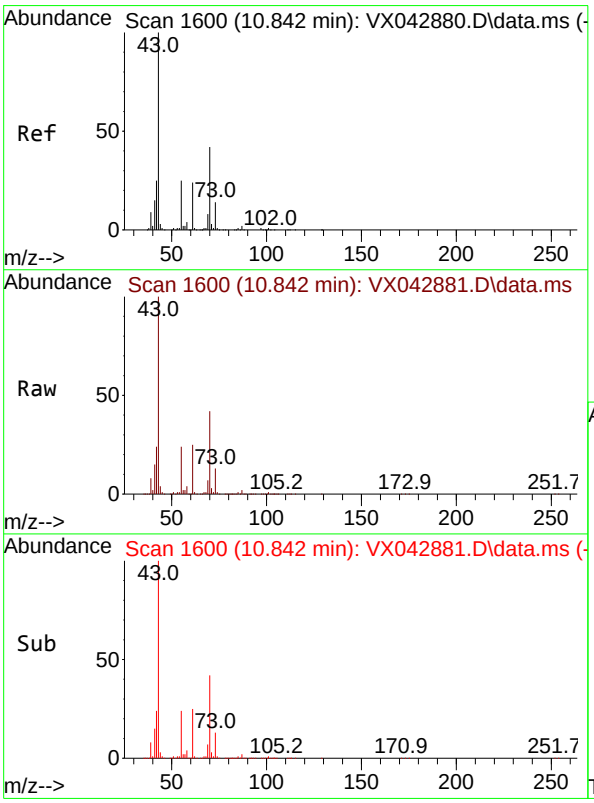
Ion	Ratio	Lower	Upper
105	100		
120	26.4	12.9	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

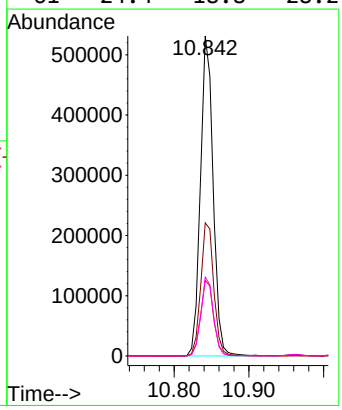
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

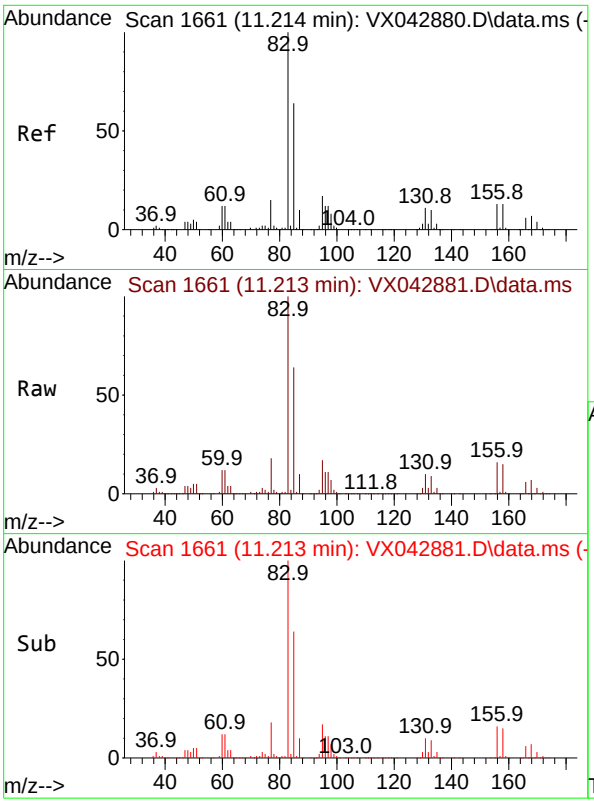


#74
N-amyl acetate
Concen: 104.306 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 43 Resp: 627143

Ion	Ratio	Lower	Upper
43	100		
70	42.7	32.9	49.3
55	24.2	19.3	28.9
61	24.4	18.8	28.2





#75
1,1,2,2-Tetrachloroethane
Concen: 91.497 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

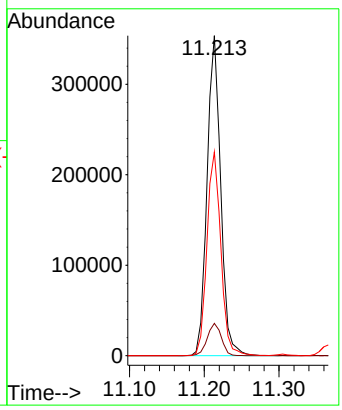
Tgt Ion: 83 Resp: 44789

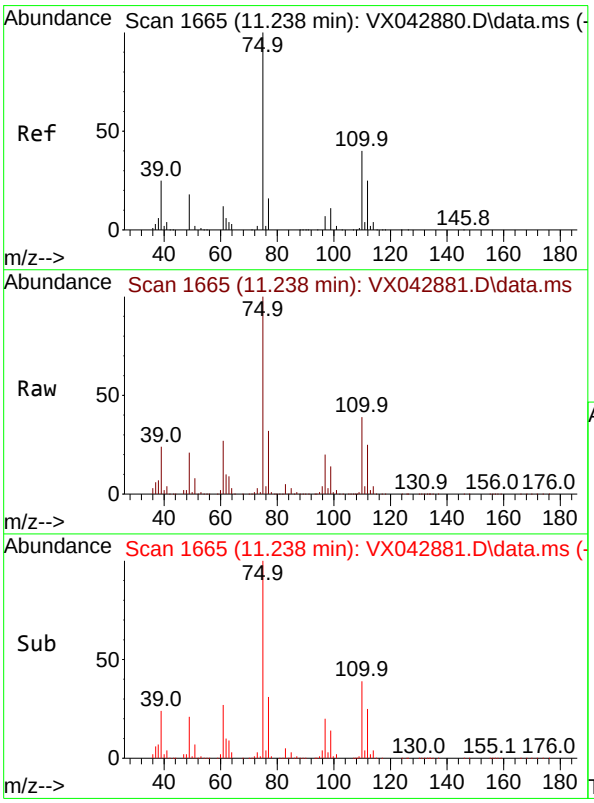
Ion	Ratio	Lower	Upper
83	100		
131	10.5	5.3	15.8
85	65.0	32.0	96.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

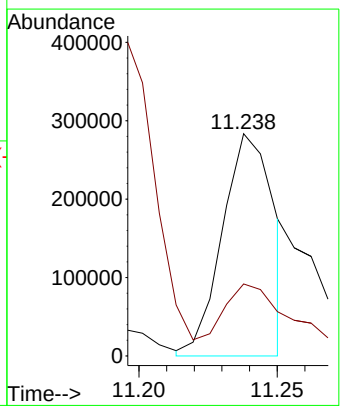


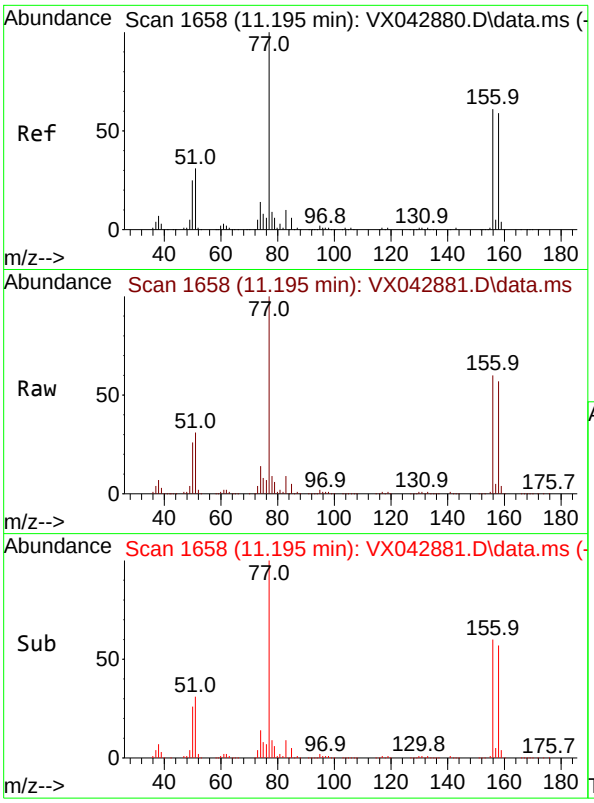


#76
1,2,3-Trichloropropane
Concen: 90.148 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 75 Resp: 365479

Ion	Ratio	Lower	Upper
75	100		
77	44.8	19.1	57.5

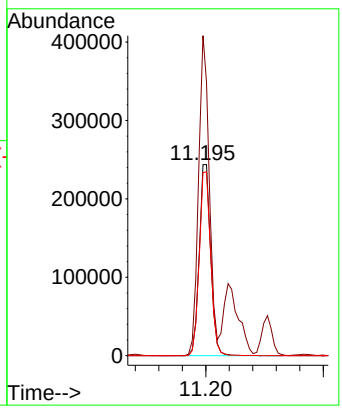




#77
Bromobenzene
Concen: 96.857 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion:156 Resp: 32923

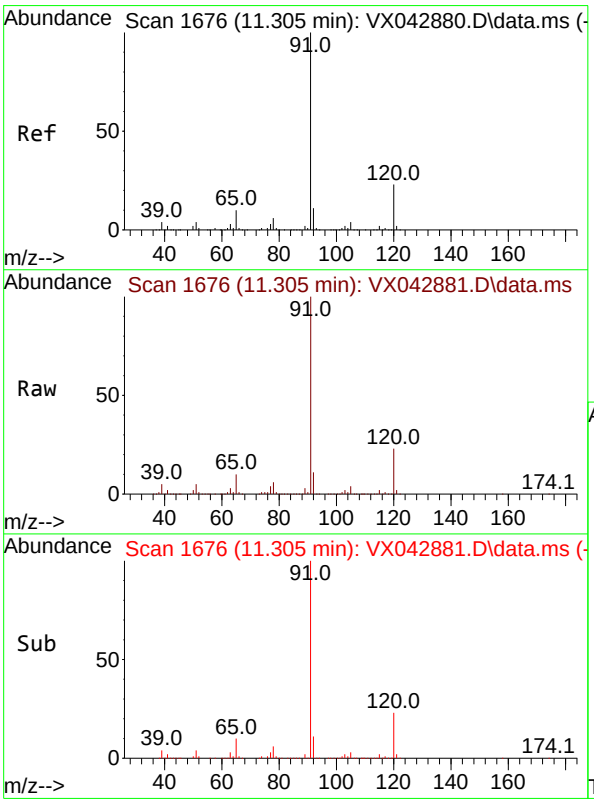
Ion	Ratio	Lower	Upper
156	100		
77	157.3	88.4	265.3
158	96.3	48.0	144.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

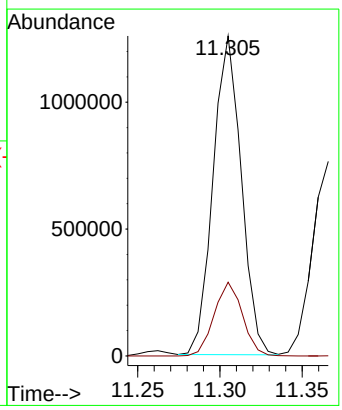
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

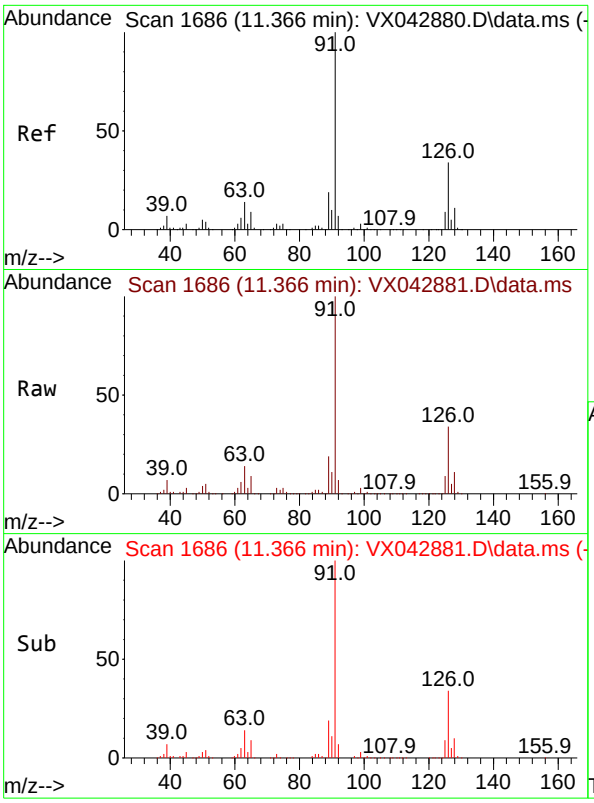


#78
n-propylbenzene
Concen: 100.822 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 91 Resp: 1496508

Ion	Ratio	Lower	Upper
91	100		
120	23.3	11.5	34.4

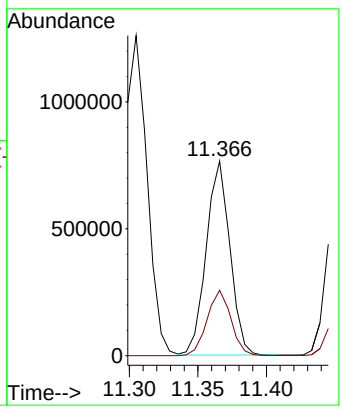




#79
2-Chlorotoluene
Concen: 96.417 ug/l
RT: 11.366 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 91 Resp: 91726

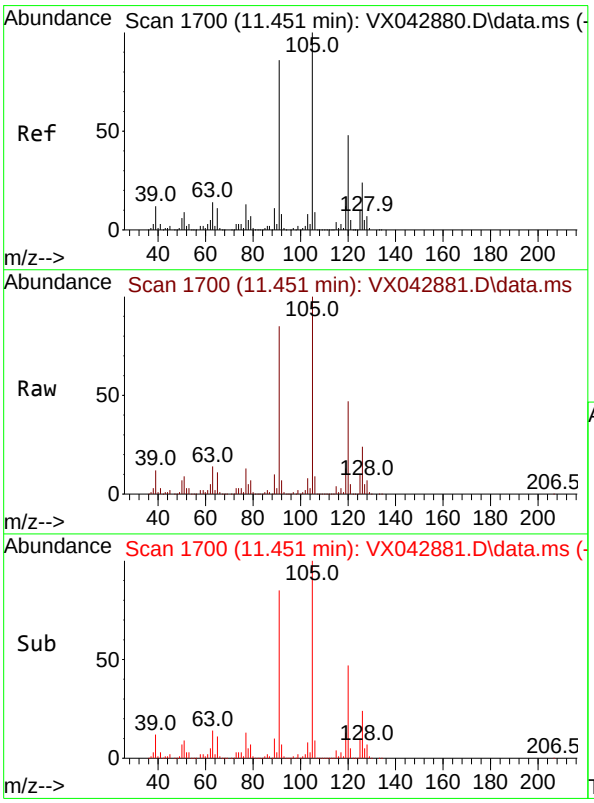
Ion	Ratio	Lower	Upper
91	100		
126	34.1	16.3	48.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

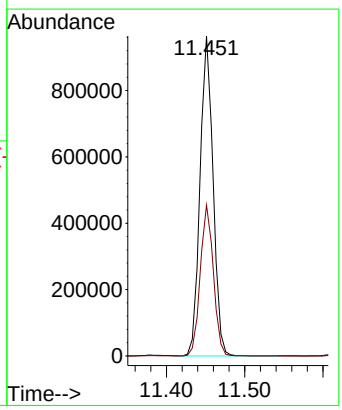
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

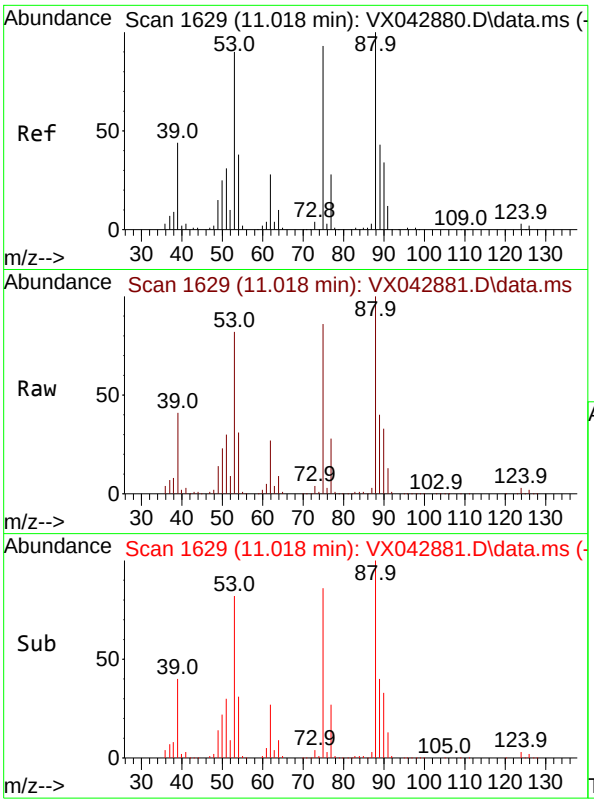


#80
1,3,5-Trimethylbenzene
Concen: 100.504 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion:105 Resp: 1112024

Ion	Ratio	Lower	Upper
105	100		
120	47.4	24.1	72.3

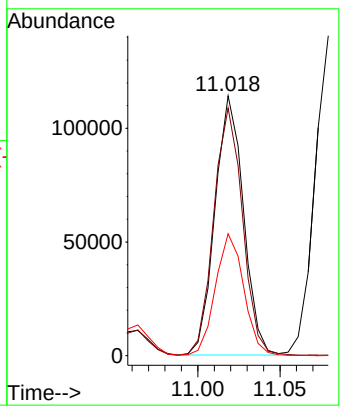




#81
trans-1,4-Dichloro-2-butene
Concen: 107.522 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 75 Resp: 13745

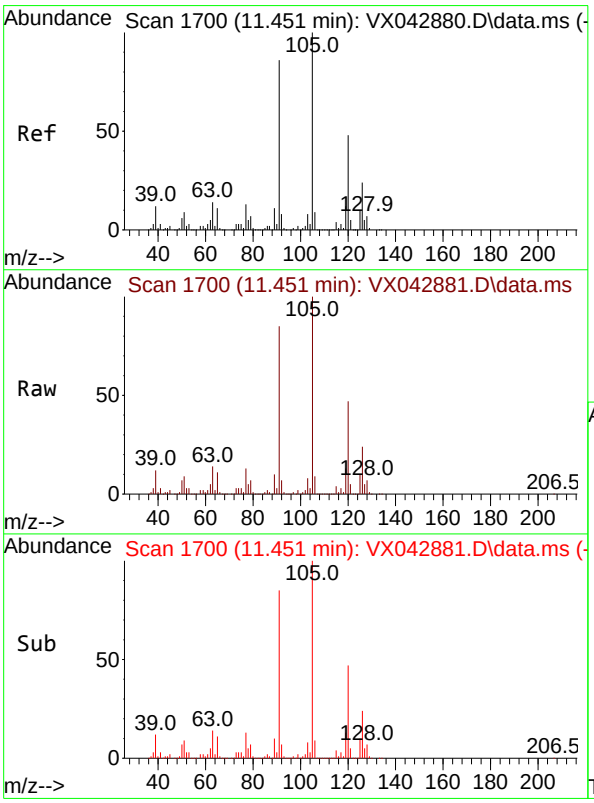
Ion	Ratio	Lower	Upper
75	100		
53	96.5	90.5	135.7
89	47.1	36.9	55.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

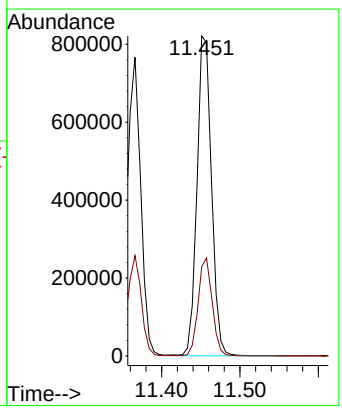
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

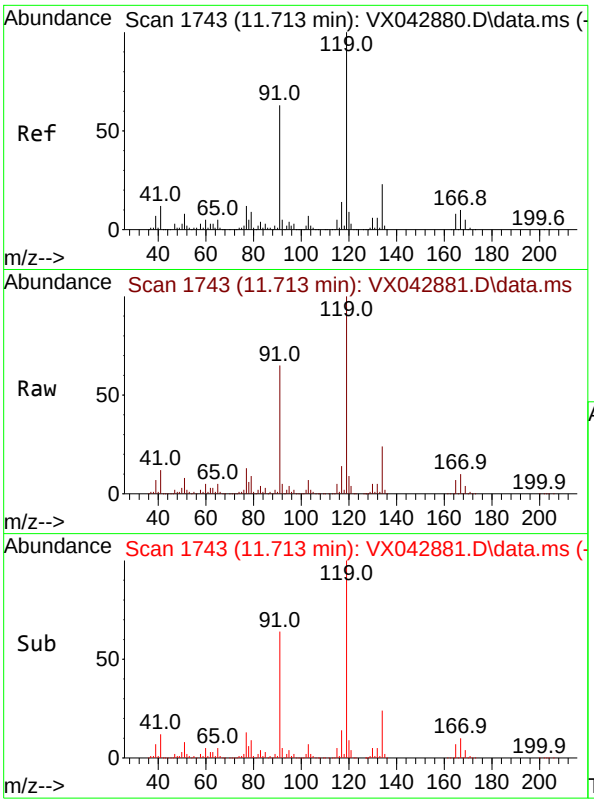


#82
4-Chlorotoluene
Concen: 98.925 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 91 Resp: 1057837

Ion	Ratio	Lower	Upper
91	100		
126	29.7	14.2	42.6

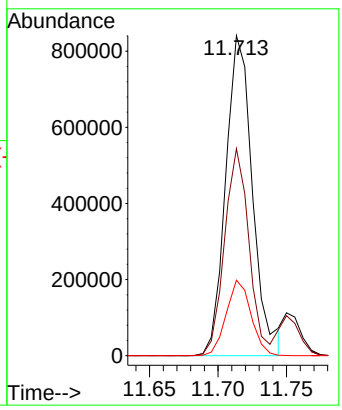




#83
tert-Butylbenzene
Concen: 100.685 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion:119 Resp: 114486

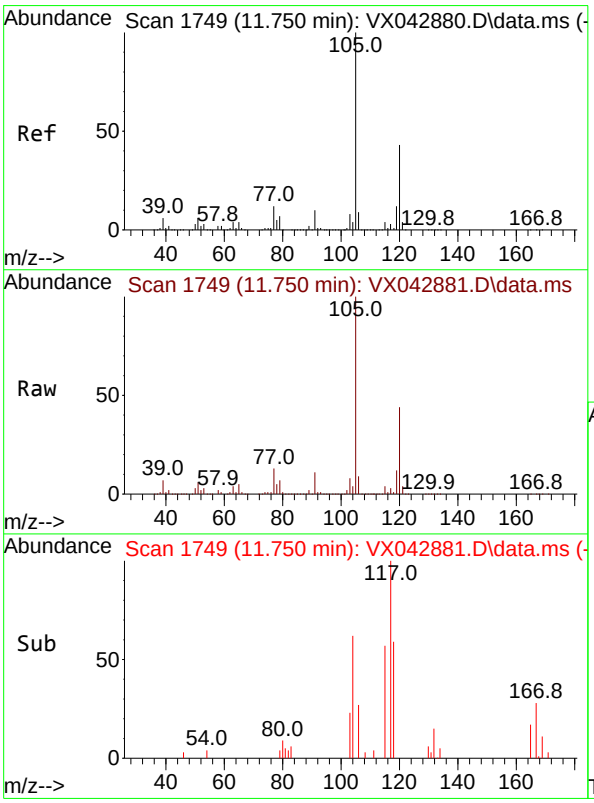
Ion	Ratio	Lower	Upper
119	100		
91	59.0	31.2	93.6
134	21.9	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

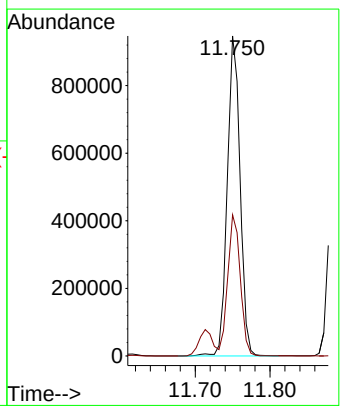
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

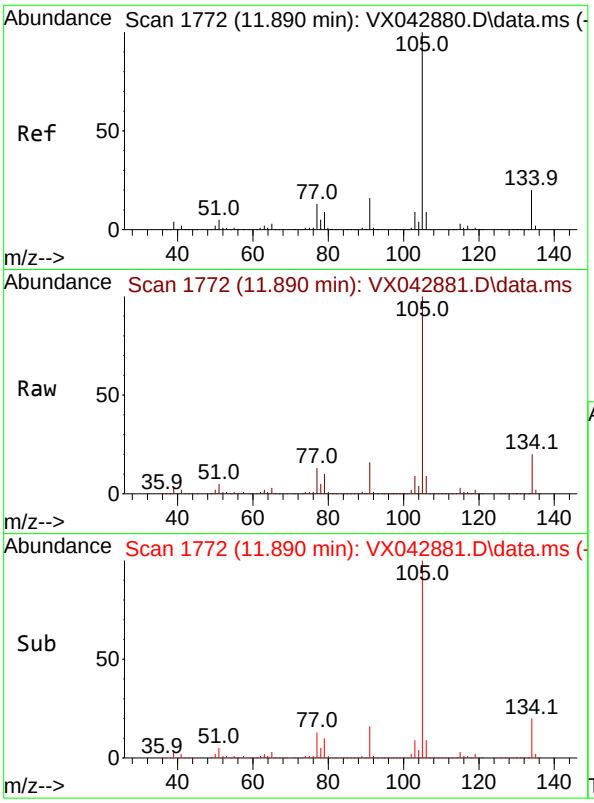


#84
1,2,4-Trimethylbenzene
Concen: 101.391 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion:105 Resp: 1129383

Ion	Ratio	Lower	Upper
105	100		
120	43.3	21.2	63.6





#85
sec-Butylbenzene
Concen: 102.560 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

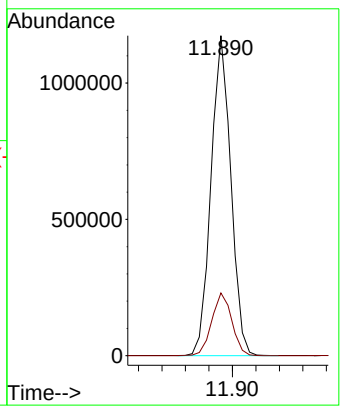
Tgt Ion:105 Resp: 137319

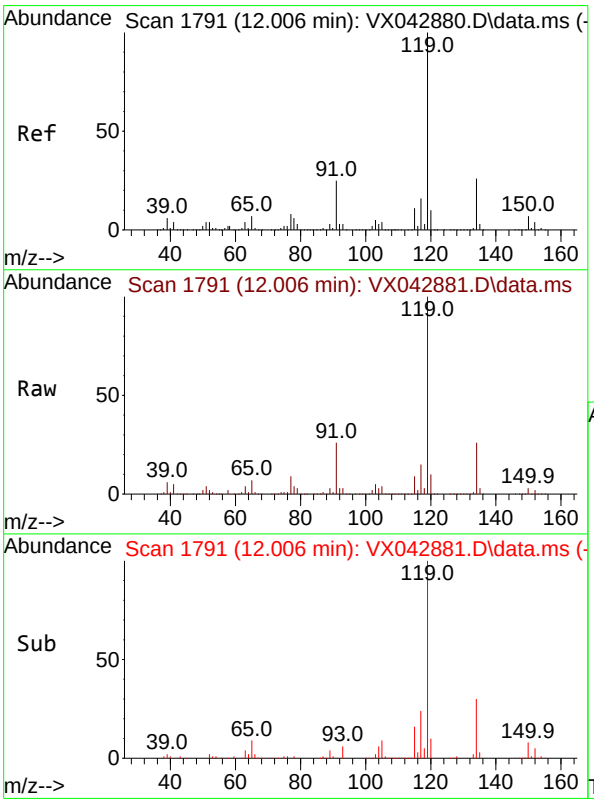
Ion	Ratio	Lower	Upper
105	100		
134	19.9	9.8	29.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

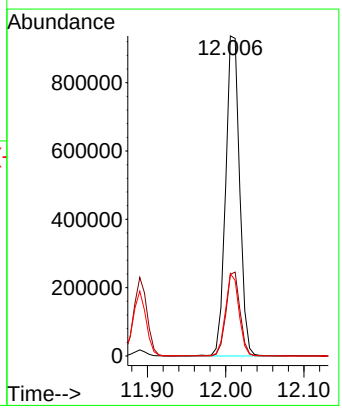


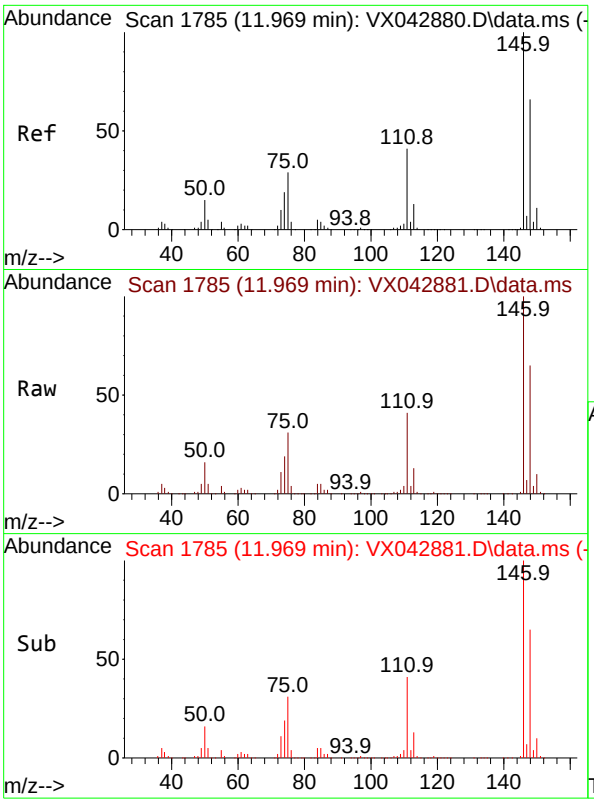


#86
p-Isopropyltoluene
Concen: 104.620 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion:119 Resp: 1163797

Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.8	38.3
91	24.9	13.1	39.3





#87
1,3-Dichlorobenzene
Concen: 96.858 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

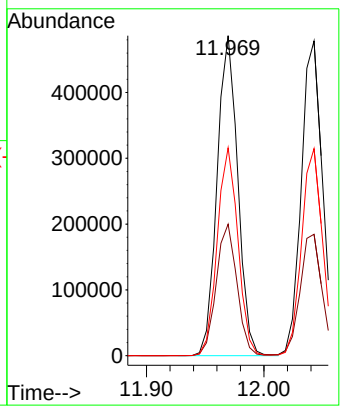
Tgt Ion:146 Resp: 59583

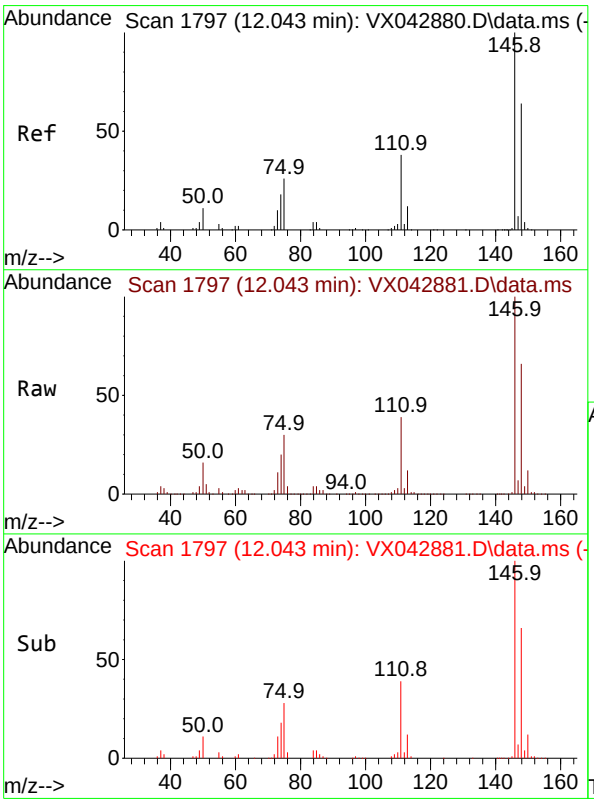
Ion	Ratio	Lower	Upper
146	100		
111	41.2	22.1	66.1
148	64.9	31.8	95.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

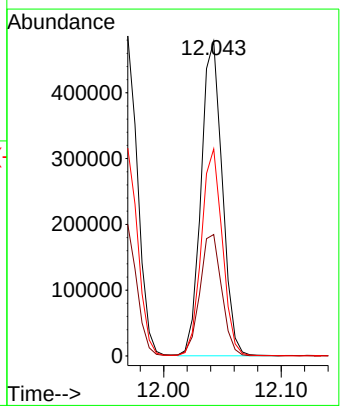


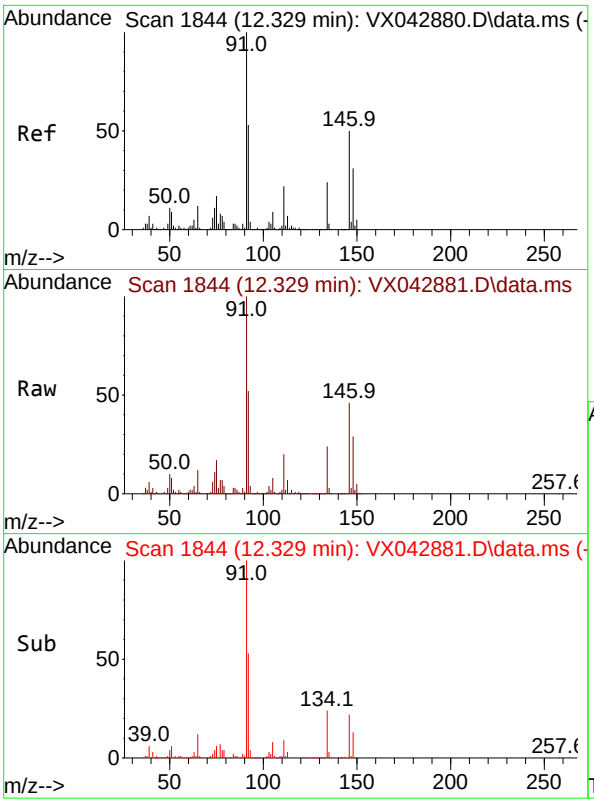


#88
1,4-Dichlorobenzene
Concen: 95.107 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion:146 Resp: 599711

Ion	Ratio	Lower	Upper
146	100		
111	39.8	21.3	63.7
148	65.2	31.8	95.4

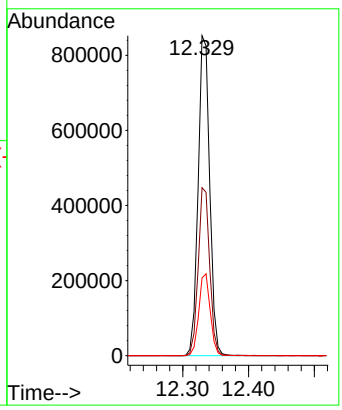




#89
n-Butylbenzene
Concen: 108.366 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 91 Resp: 103995

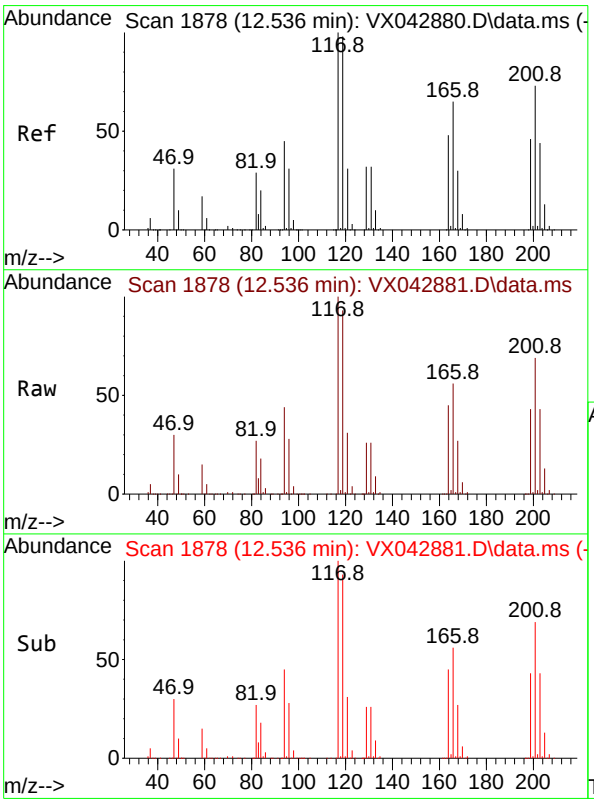
Ion	Ratio	Lower	Upper
91	100		
92	52.2	27.4	82.0
134	25.4	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

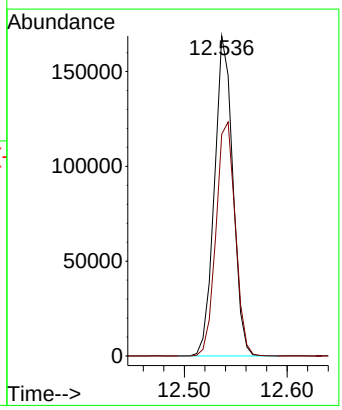
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

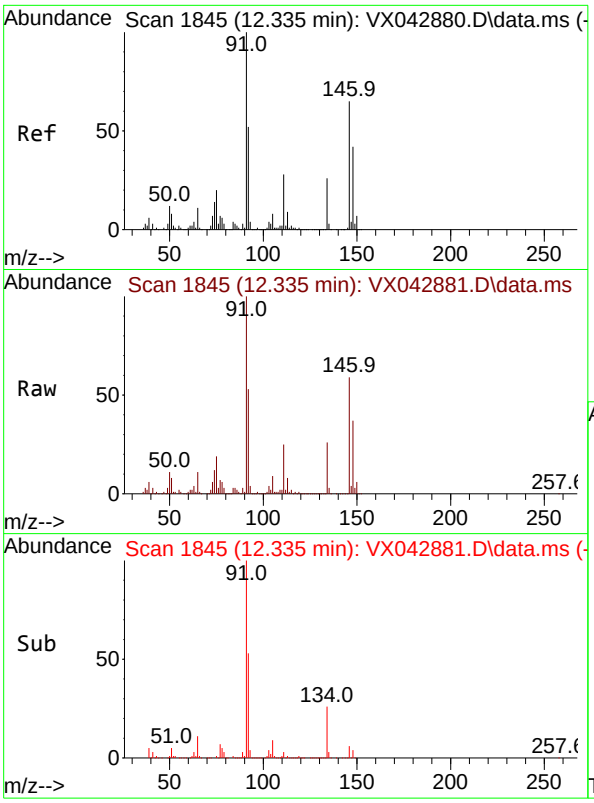


#90
Hexachloroethane
Concen: 103.010 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion:117 Resp: 209610

Ion	Ratio	Lower	Upper
117	100		
201	76.4	32.9	98.6

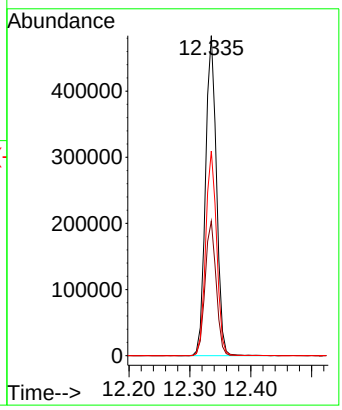




#91
1,2-Dichlorobenzene
Concen: 98.243 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion:146 Resp: 60518

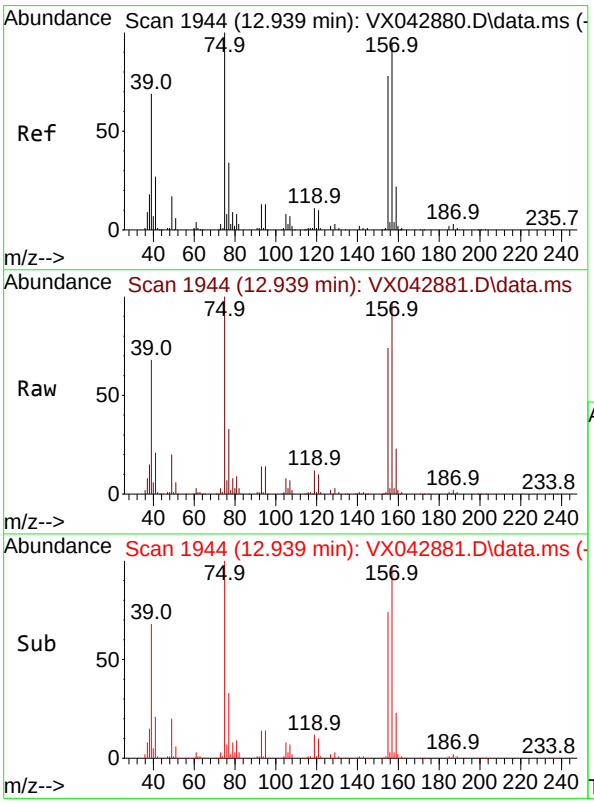
Ion	Ratio	Lower	Upper
146	100		
111	42.2	22.4	67.0
148	63.9	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

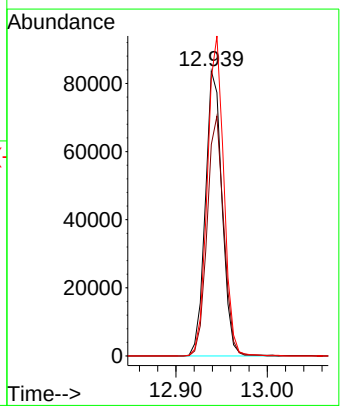
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

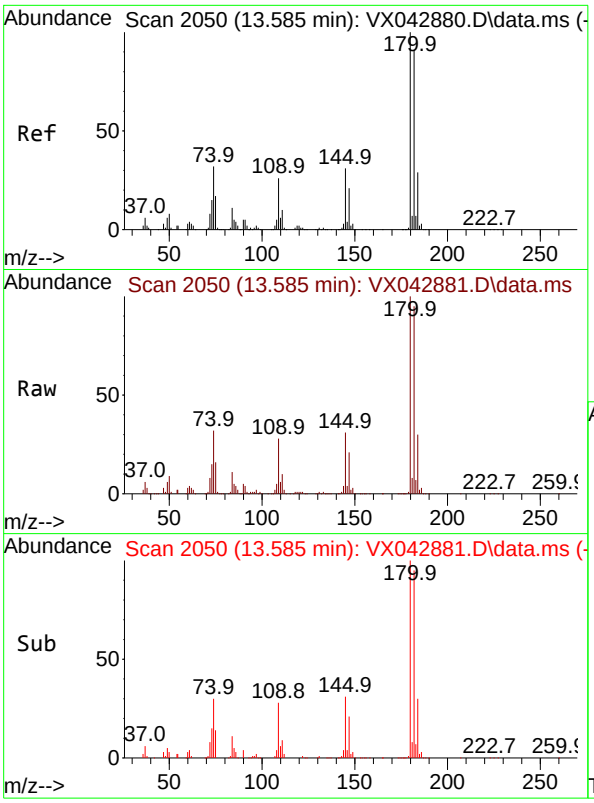


#92
1,2-Dibromo-3-Chloropropane
Concen: 99.089 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion: 75 Resp: 106582

Ion	Ratio	Lower	Upper
75	100		
155	83.5	36.1	108.5
157	110.8	44.9	134.7





#93
1,2,4-Trichlorobenzene
Concen: 102.632 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

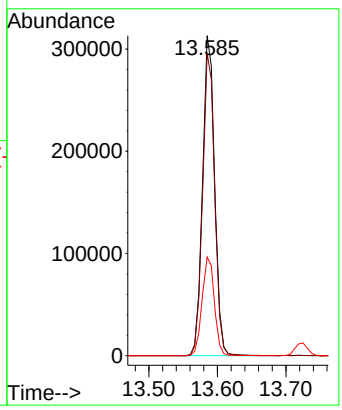
Tgt Ion:180 Resp: 38564

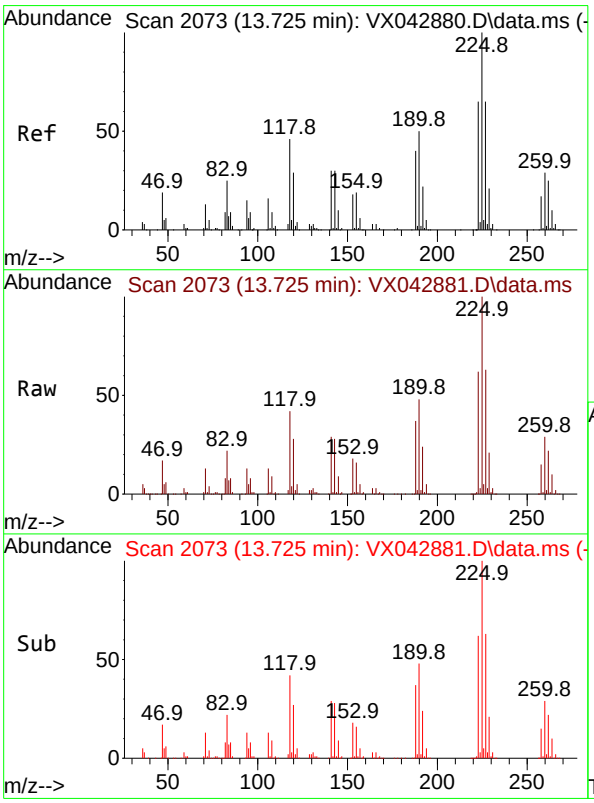
Ion	Ratio	Lower	Upper
180	100		
182	94.3	48.3	144.8
145	31.3	18.0	54.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

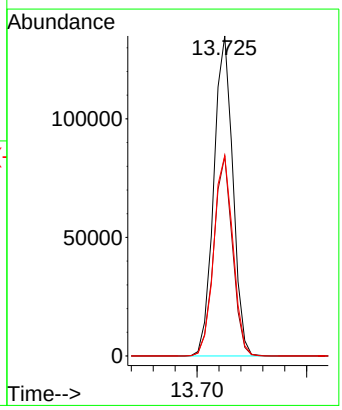


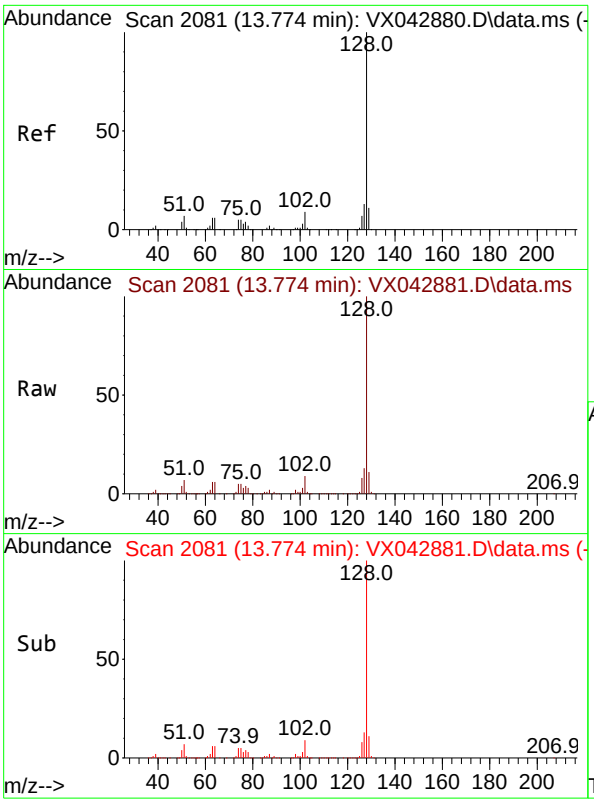


#94
Hexachlorobutadiene
Concen: 102.165 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion:225 Resp: 162811

Ion	Ratio	Lower	Upper
225	100		
223	61.1	31.1	93.2
227	62.9	32.5	97.5

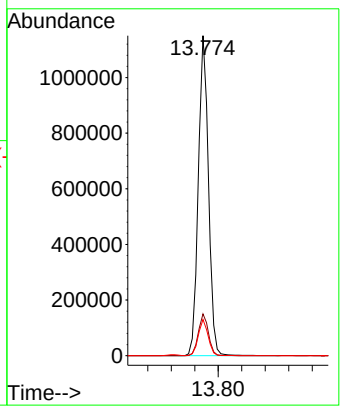




#95
Naphthalene
Concen: 105.787 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion:128 Resp: 137550

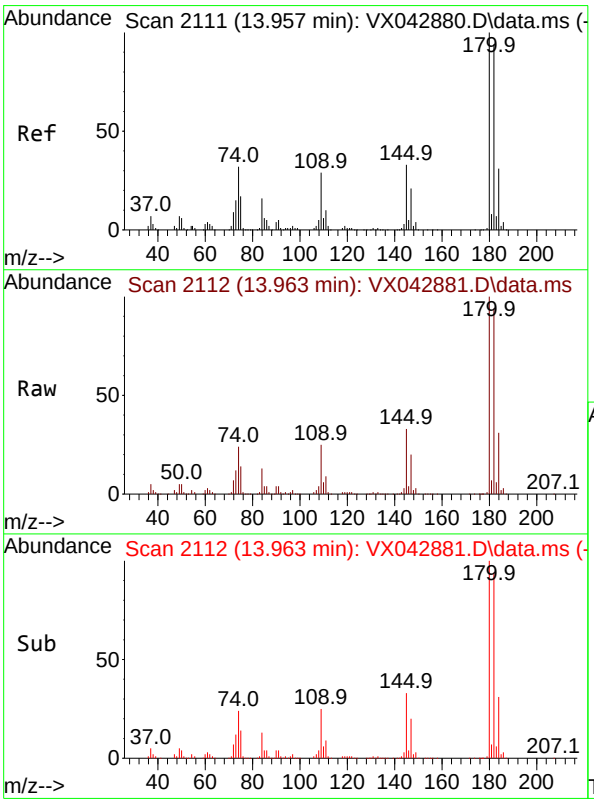
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	11.0	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

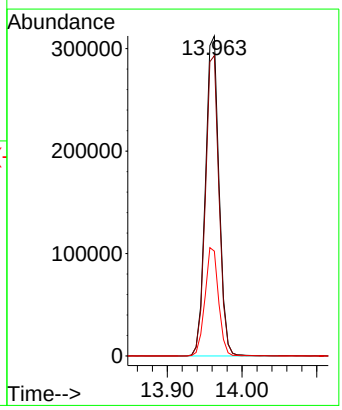
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024



#96
1,2,3-Trichlorobenzene
Concen: 104.460 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX042881.D
Acq: 06 Aug 2024 19:51

Tgt Ion:180 Resp: 395105

Ion	Ratio	Lower	Upper
180	100		
182	93.8	46.9	140.6
145	33.7	17.8	53.5



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042882.D
Acq On : 06 Aug 2024 20:15
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

Quant Time: Aug 07 02:40:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:27:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.550	168	249533	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.763	114	418487	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.055	117	372491	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	192473	50.000	ug/l	#	0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	5.958	65	511620	149.352	ug/l		0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 298.700%#				
35) Dibromofluoromethane	5.391	113	412611	150.793	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 301.580%#				
50) Toluene-d8	8.653	98	1445180	148.775	ug/l		0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 297.560%#				
62) 4-Bromofluorobenzene	11.079	95	554230	158.776	ug/l		0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 317.560%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.166	85	409842	152.377	ug/l		100
3) Chloromethane	1.301	50	410908	140.214	ug/l		100
4) Vinyl Chloride	1.374	62	417247	150.059	ug/l		99
5) Bromomethane	1.599	94	259045	153.937	ug/l		96
6) Chloroethane	1.660	64	199078	125.676	ug/l		100
7) Trichlorofluoromethane	1.861	101	546664	126.418	ug/l		99
8) Diethyl Ether	2.136	74	230628	145.000	ug/l		89
9) 1,1,2-Trichlorotrifluo...	2.313	101	392910	144.519	ug/l		96
10) Methyl Iodide	2.441	142	431975	153.661	ug/l		93
11) Tert butyl alcohol	3.014	59	539080	791.169	ug/l	#	92
12) 1,1-Dichloroethene	2.307	96	396179	144.044	ug/l		88
13) Acrolein	2.239	56	499122	743.158	ug/l		99
14) Allyl chloride	2.660	41	578545	139.212	ug/l	#	92
15) Acrylonitrile	3.075	53	1243328	714.929	ug/l		99
16) Acetone	2.398	43	1019014	685.828	ug/l		91
17) Carbon Disulfide	2.496	76	1022475	152.768	ug/l		100
18) Methyl Acetate	2.715	43	619665	131.516	ug/l		97
19) Methyl tert-butyl Ether	3.123	73	1365923	147.550	ug/l		100
20) Methylene Chloride	2.782	84	443974	149.698	ug/l		93
21) trans-1,2-Dichloroethene	3.081	96	408180	147.510	ug/l		93
22) Diisopropyl ether	3.770	45	1297577	142.127	ug/l		88
23) Vinyl Acetate	3.727	43	7640705	737.390	ug/l		96
24) 1,1-Dichloroethane	3.605	63	730518	139.127	ug/l		99
25) 2-Butanone	4.574	43	1679501	719.777	ug/l		95
26) 2,2-Dichloropropane	4.471	77	490409	151.925	ug/l		95
27) cis-1,2-Dichloroethene	4.489	96	490163	149.367	ug/l		90
28) Bromochloromethane	4.898	49	271608	134.809	ug/l		85
29) Tetrahydrofuran	5.019	42	1098508	696.696	ug/l		94
30) Chloroform	5.093	83	795011	144.631	ug/l		97
31) Cyclohexane	5.464	56	640289	149.382	ug/l		94
32) 1,1,1-Trichloroethane	5.379	97	736884	152.280	ug/l		97
36) 1,1-Dichloropropene	5.690	75	542603	146.260	ug/l		97
37) Ethyl Acetate	4.727	43	665576	143.391	ug/l		98
38) Carbon Tetrachloride	5.672	117	638203	152.395	ug/l		99
39) Methylcyclohexane	7.379	83	685402	155.415	ug/l		95
40) Benzene	6.038	78	1687417	146.556	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042882.D
Acq On : 06 Aug 2024 20:15
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 07 02:40:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:27:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.928	41	362727	151.722	ug/l		93
42) 1,2-Dichloroethane	6.086	62	607527	145.065	ug/l		98
43) Isopropyl Acetate	6.348	43	1056765	153.944	ug/l		97
44) Trichloroethene	7.123	130	426591	147.453	ug/l		99
45) 1,2-Dichloropropane	7.434	63	416603	142.637	ug/l		97
46) Dibromomethane	7.580	93	318013	148.250	ug/l		93
47) Bromodichloromethane	7.824	83	617815	155.039	ug/l		96
48) Methyl methacrylate	7.696	41	512358	155.656	ug/l		91
49) 1,4-Dioxane	7.671	88	227990	2991.192	ug/l	#	89
51) 4-Methyl-2-Pentanone	8.580	43	3340963	726.586	ug/l		96
52) Toluene	8.720	92	1034015	148.054	ug/l		95
53) t-1,3-Dichloropropene	8.976	75	618724	167.964	ug/l		98
54) cis-1,3-Dichloropropene	8.366	75	655772	161.195	ug/l		90
55) 1,1,2-Trichloroethane	9.153	97	424025	149.346	ug/l		96
56) Ethyl methacrylate	9.122	69	731692	160.150	ug/l		93
57) 1,3-Dichloropropane	9.311	76	682676	146.778	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.244	63	1625564	754.909	ug/l		100
59) 2-Hexanone	9.433	43	2655823	745.393	ug/l		95
60) Dibromochloromethane	9.525	129	500690	160.531	ug/l		100
61) 1,2-Dibromoethane	9.610	107	452132	150.724	ug/l		100
64) Tetrachloroethene	9.275	164	376890	145.519	ug/l		98
65) Chlorobenzene	10.080	112	1162481	147.066	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.165	131	419659	153.971	ug/l		99
67) Ethyl Benzene	10.195	91	2037419	153.236	ug/l		99
68) m/p-Xylenes	10.299	106	1559381	307.218	ug/l		97
69) o-Xylene	10.640	106	766220	150.693	ug/l		100
70) Styrene	10.653	104	1317965	161.190	ug/l		97
71) Bromoform	10.799	173	377740	149.639	ug/l	#	100
73) Isopropylbenzene	10.964	105	1965355	141.234	ug/l		98
74) N-amyl acetate	10.842	43	969611	154.856	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.213	83	687775	134.916	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	647643m	153.397	ug/l		
77) Bromobenzene	11.201	156	504332	142.474	ug/l		90
78) n-propylbenzene	11.305	91	2291999	148.279	ug/l		99
79) 2-Chlorotoluene	11.366	91	1386472	139.945	ug/l		97
80) 1,3,5-Trimethylbenzene	11.451	105	1688172	146.513	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	224355	168.527	ug/l		87
82) 4-Chlorotoluene	11.457	91	1636862	146.990	ug/l		97
83) tert-Butylbenzene	11.713	119	1754152	148.139	ug/l		96
84) 1,2,4-Trimethylbenzene	11.750	105	1728957	149.050	ug/l		98
85) sec-Butylbenzene	11.890	105	2094823	150.238	ug/l		99
86) p-Isopropyltoluene	12.012	119	1788736	154.409	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	930675	145.276	ug/l		98
88) 1,4-Dichlorobenzene	12.043	146	940918	143.289	ug/l		97
89) n-Butylbenzene	12.335	91	1623353	162.435	ug/l		98
90) Hexachloroethane	12.536	117	332111	156.725	ug/l		87
91) 1,2-Dichlorobenzene	12.335	146	934677	145.700	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	173558	154.944	ug/l		81
93) 1,2,4-Trichlorobenzene	13.585	180	617501	157.807	ug/l		96
94) Hexachlorobutadiene	13.725	225	256131	154.336	ug/l		99
95) Naphthalene	13.774	128	2165003	159.889	ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	630839	160.157	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042882.D
Acq On : 06 Aug 2024 20:15
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

Quant Time: Aug 07 02:40:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:27:24 2024
Response via : Initial Calibration

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

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

ICAL Form

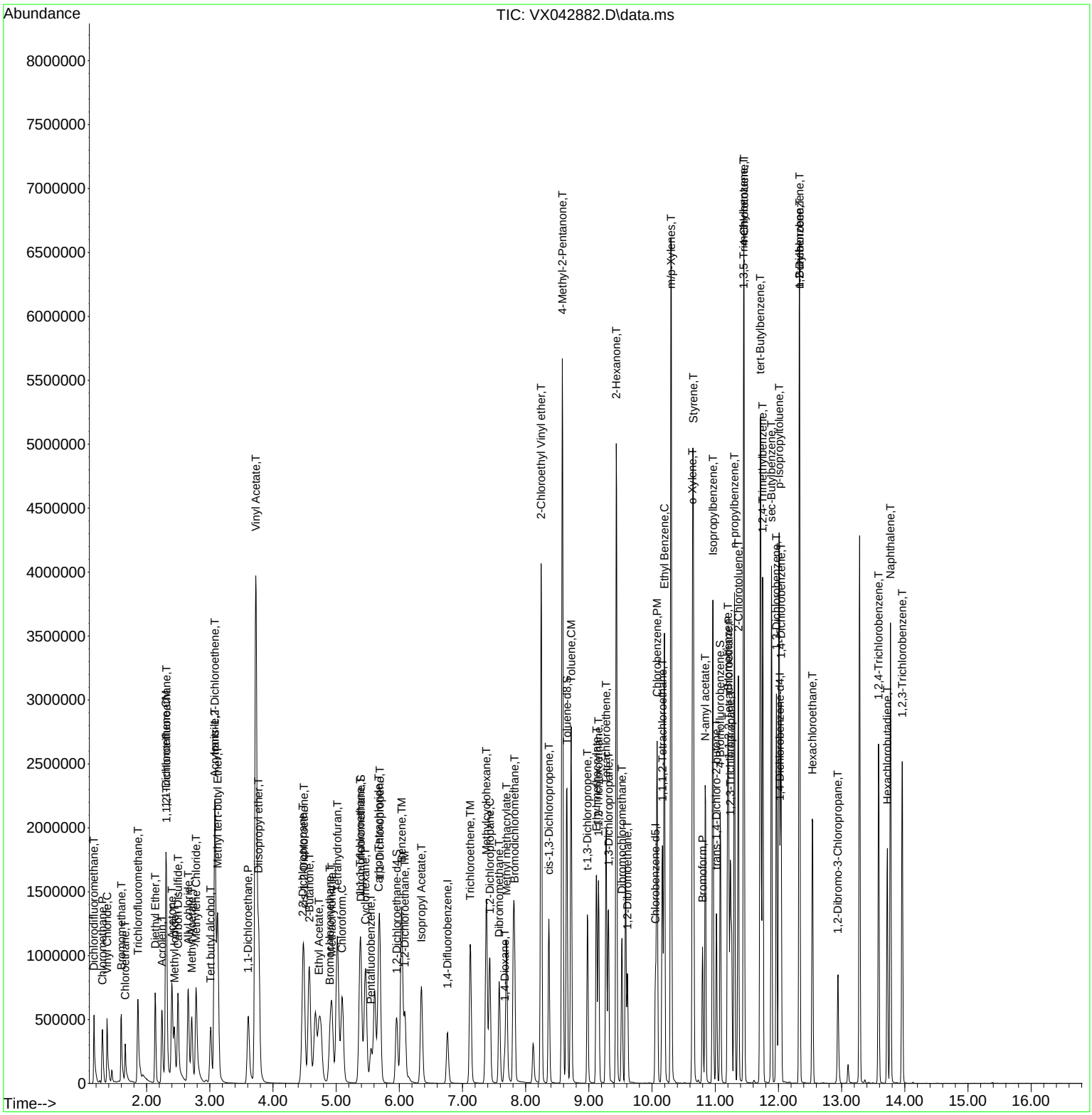
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042882.D
Acq On : 06 Aug 2024 20:15
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

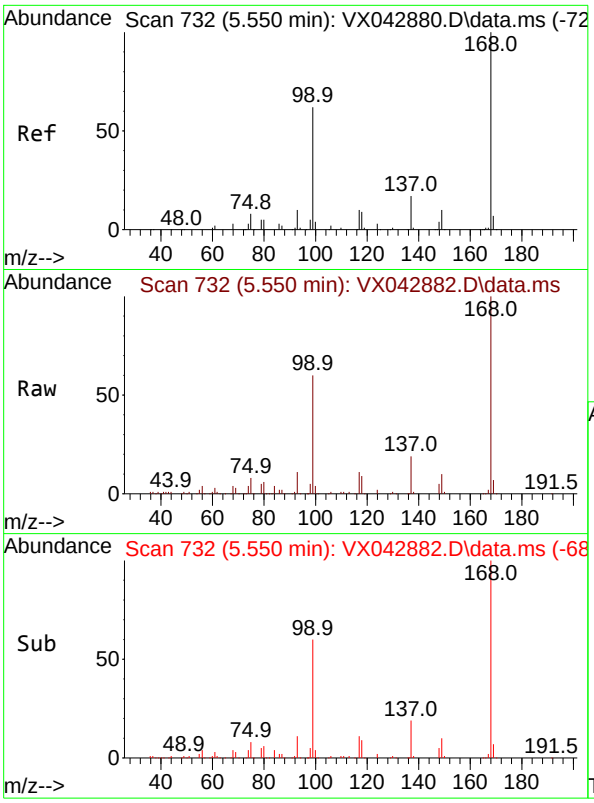
Quant Time: Aug 07 02:40:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:27:24 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

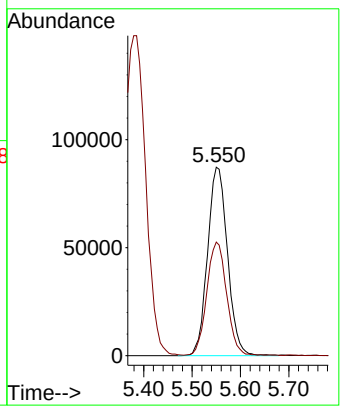




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion:168 Resp: 24953

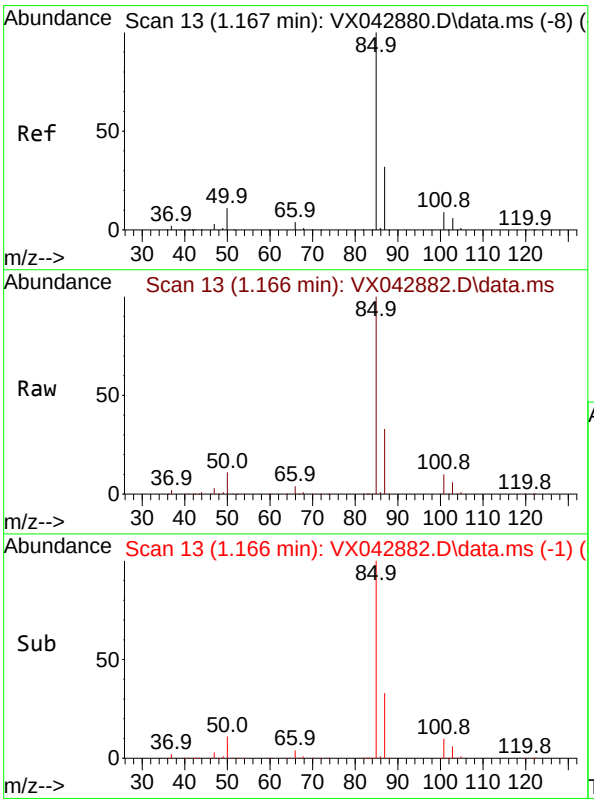
Ion	Ratio	Lower	Upper
168	100		
99	60.0	56.6	85.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

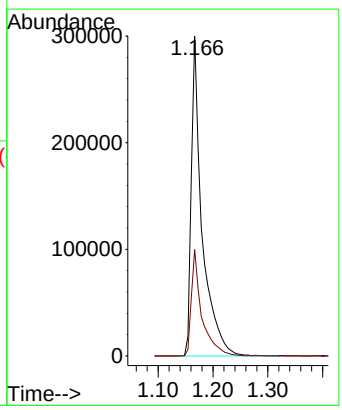
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

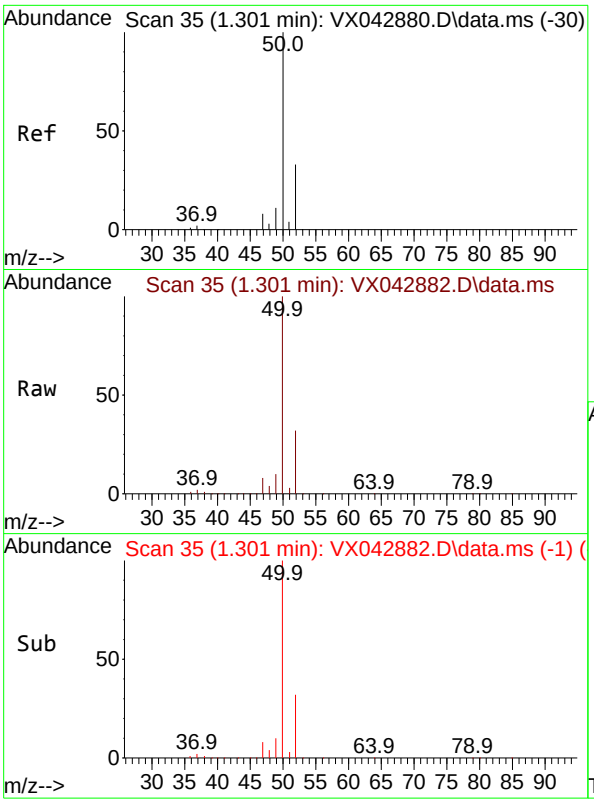


#2
Dichlorodifluoromethane
Concen: 152.377 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 85 Resp: 409842

Ion	Ratio	Lower	Upper
85	100		
87	33.2	16.7	50.1

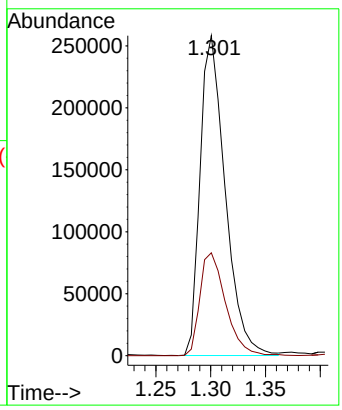




#3
Chloromethane
Concen: 140.214 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 50 Resp: 41090

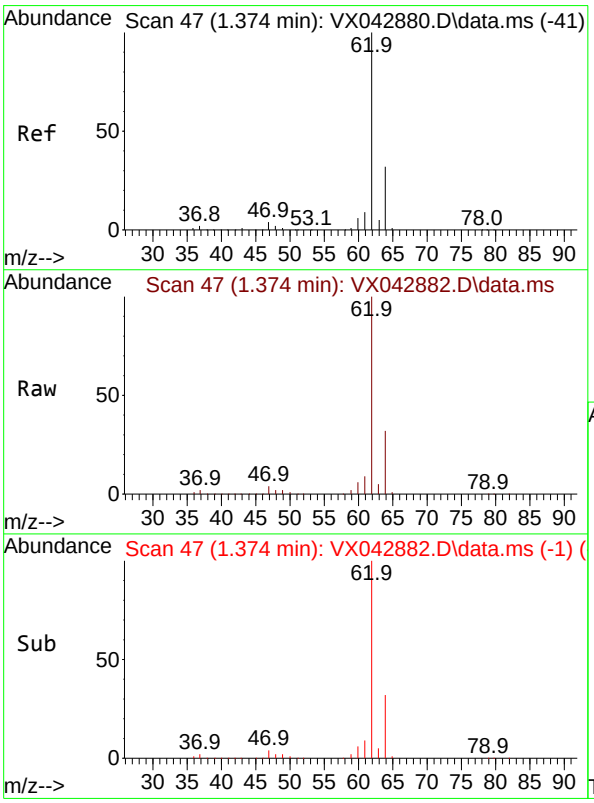
Ion	Ratio	Lower	Upper
50	100		
52	32.2	25.5	38.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

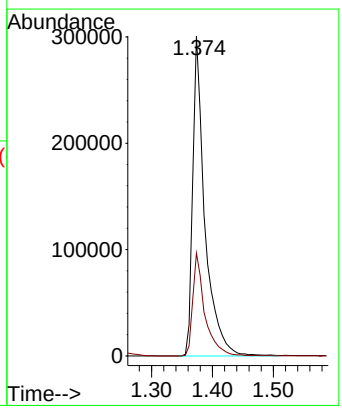
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

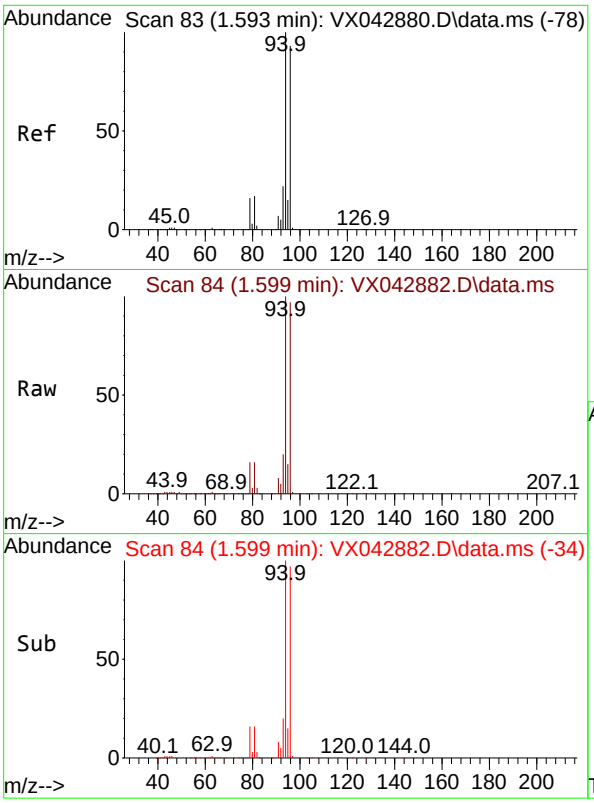


#4
Vinyl Chloride
Concen: 150.059 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 62 Resp: 417247

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.4	38.0

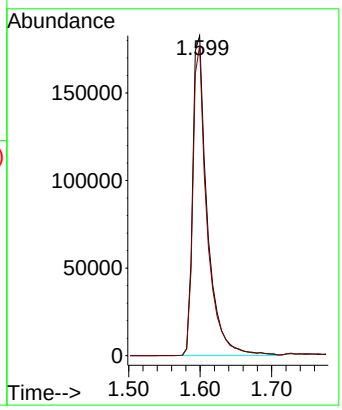




#5
Bromomethane
Concen: 153.937 ug/l
RT: 1.599 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 94 Resp: 25904

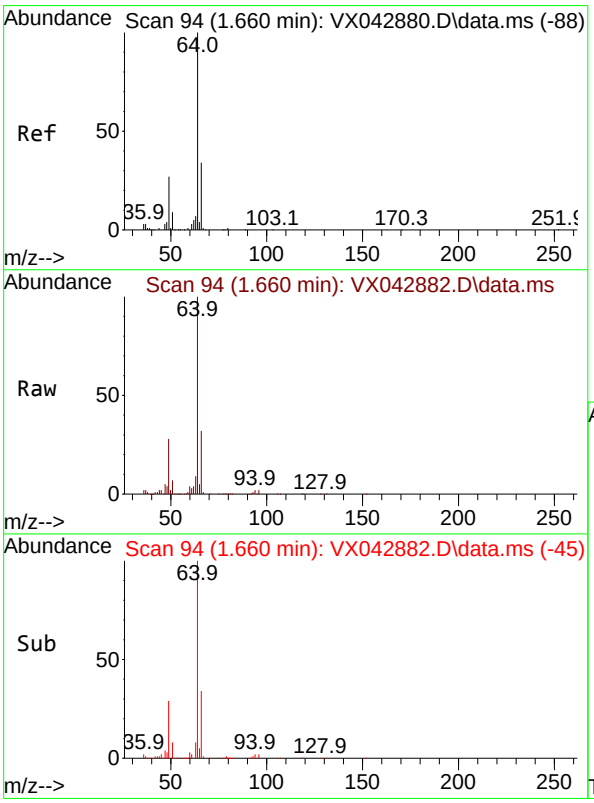
Ion	Ratio	Lower	Upper
94	100		
96	96.9	74.6	111.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

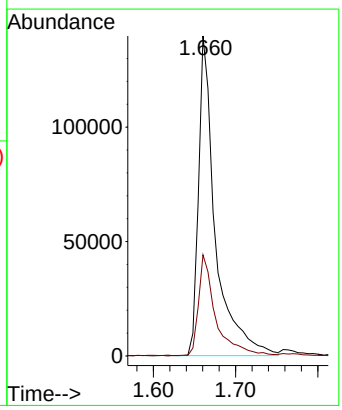
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

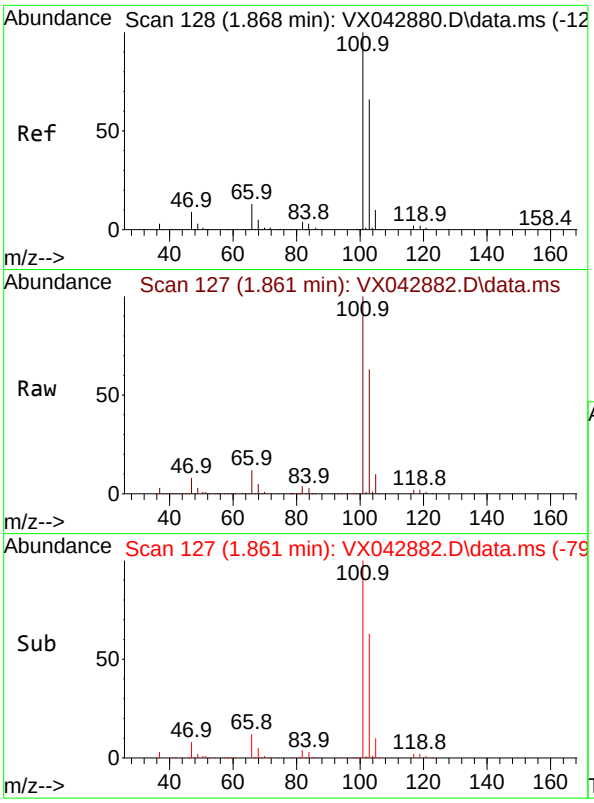


#6
Chloroethane
Concen: 125.676 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 64 Resp: 199078

Ion	Ratio	Lower	Upper
64	100		
66	31.5	25.1	37.7

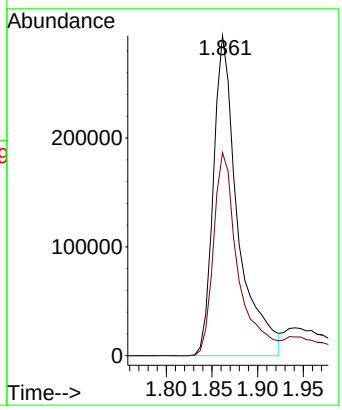




#7
Trichlorofluoromethane
Concen: 126.418 ug/l
RT: 1.861 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion:101 Resp: 54666

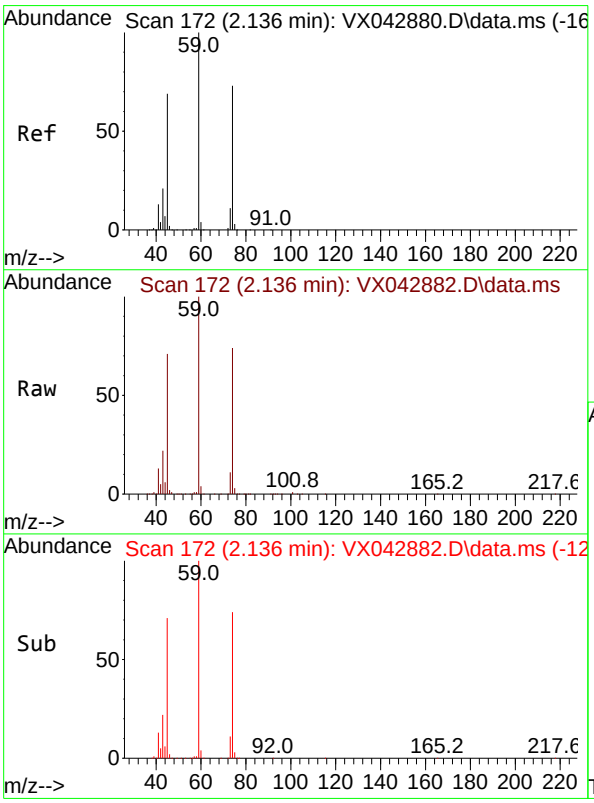
Ion	Ratio	Lower	Upper
101	100		
103	63.4	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

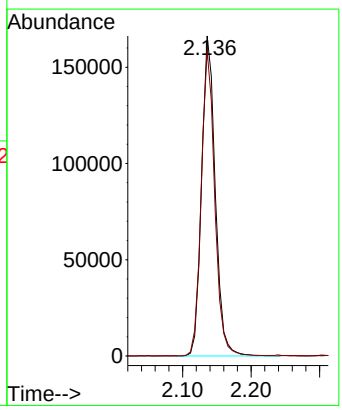
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

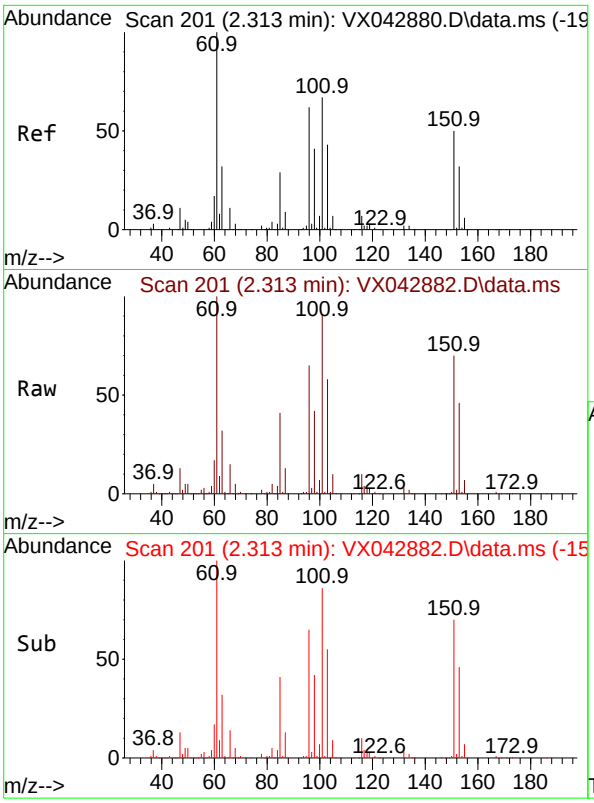


#8
Diethyl Ether
Concen: 145.000 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 74 Resp: 230628

Ion	Ratio	Lower	Upper
74	100		
45	94.7	53.3	159.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 144.519 ug/l
RT: 2.313 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

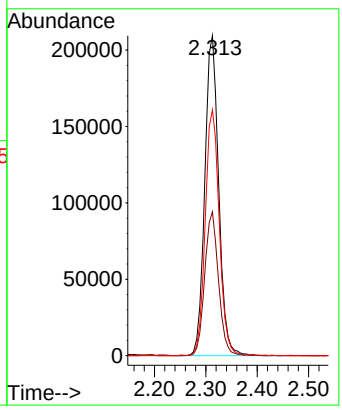
Tgt Ion:101 Resp: 39291

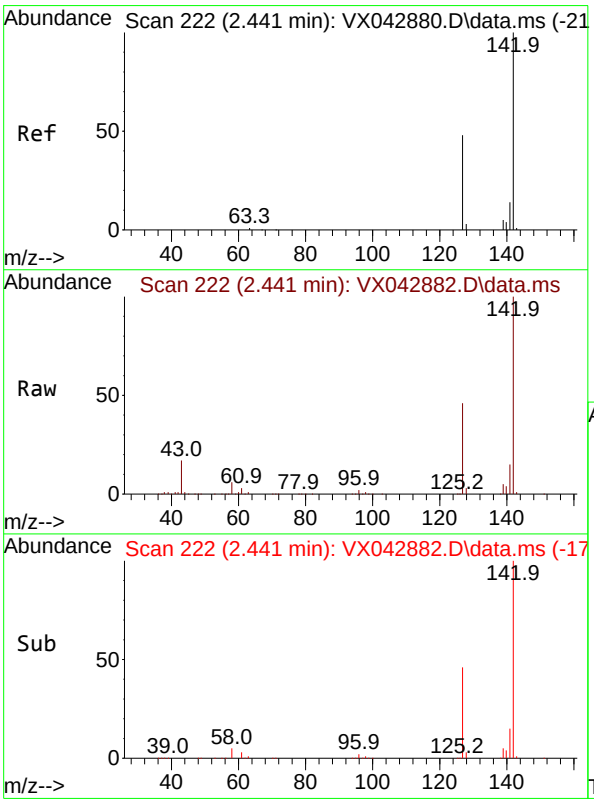
Ion	Ratio	Lower	Upper
101	100		
85	44.7	37.0	55.6
151	77.6	58.6	87.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

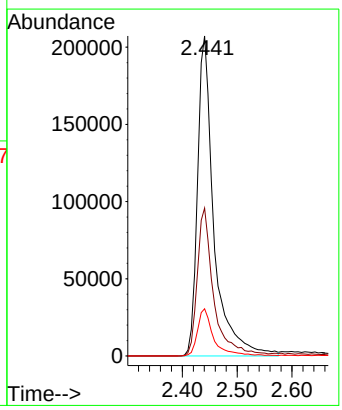


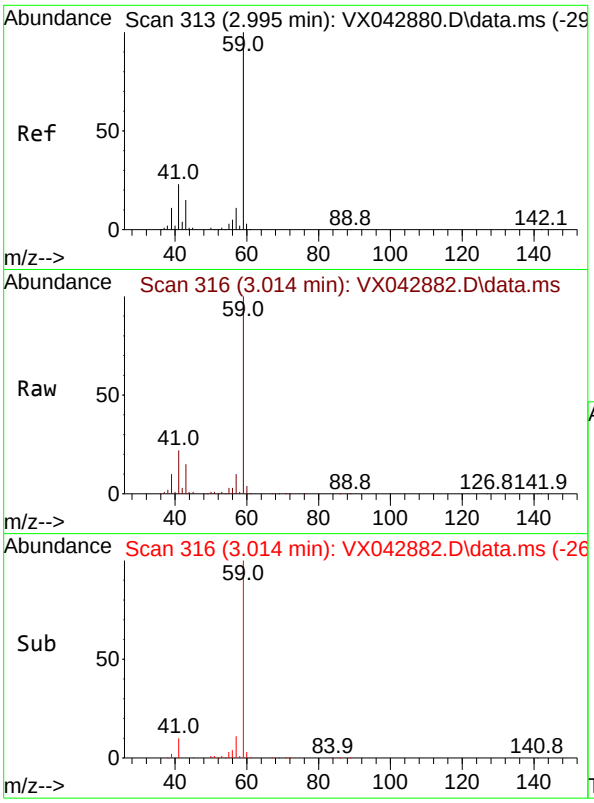


#10
Methyl Iodide
Concen: 153.661 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion:142 Resp: 431975

Ion	Ratio	Lower	Upper
142	100		
127	46.1	41.6	62.4
141	14.6	11.6	17.4

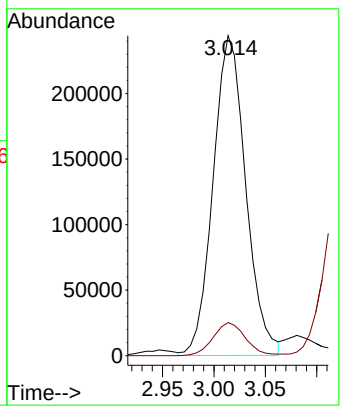




#11
Tert butyl alcohol
Concen: 791.169 ug/l
RT: 3.014 min Scan# 3
Delta R.T. 0.018 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 59 Resp: 53908

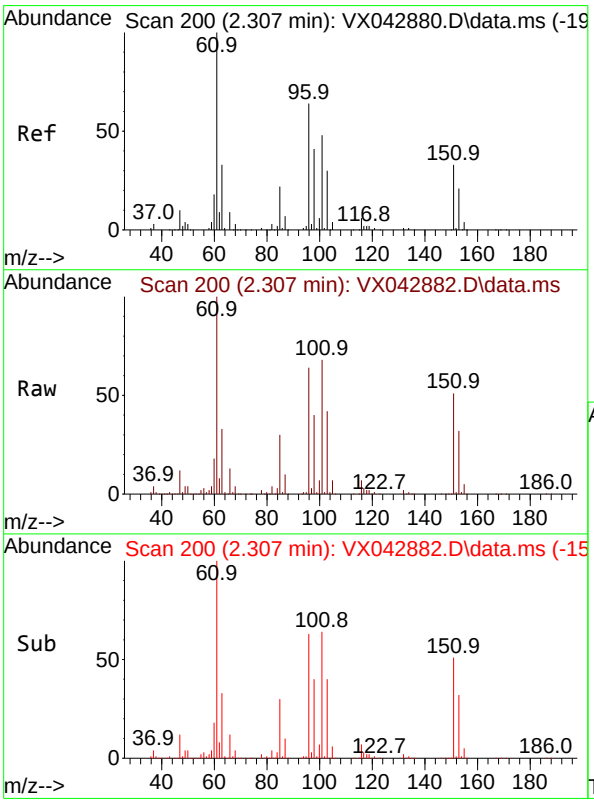
Ion	Ratio	Lower	Upper
59	100		
57	10.3	6.0	9.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

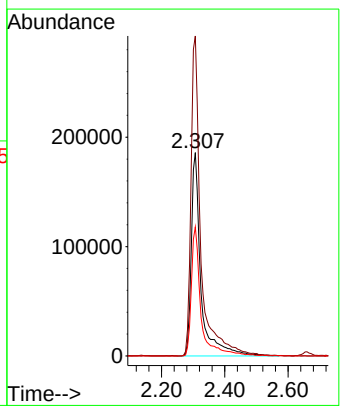
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

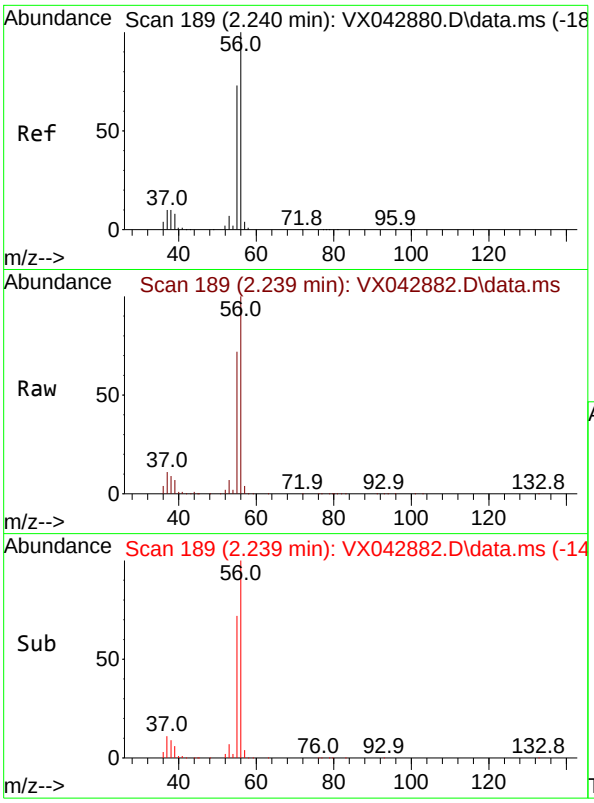


#12
1,1-Dichloroethene
Concen: 144.044 ug/l
RT: 2.307 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 96 Resp: 396179

Ion	Ratio	Lower	Upper
96	100		
61	157.4	144.6	216.8
98	63.4	50.4	75.6





#13
Acrolein
Concen: 743.158 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

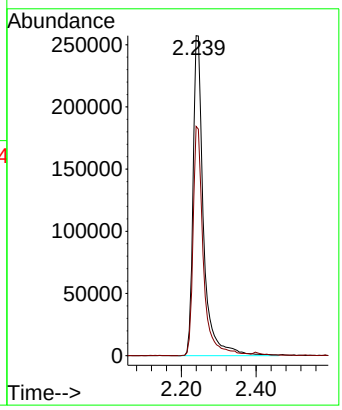
Tgt Ion: 56 Resp: 49912

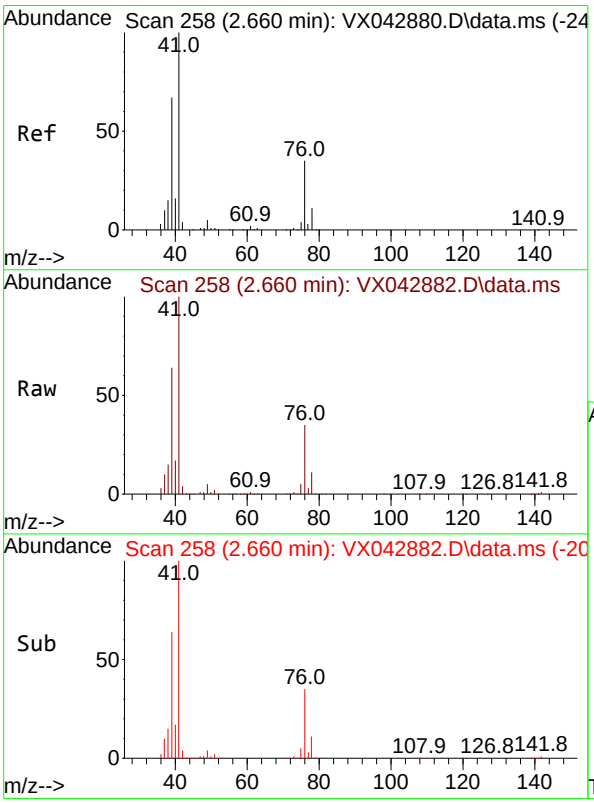
Ion	Ratio	Lower	Upper
56	100		
55	70.6	57.1	85.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

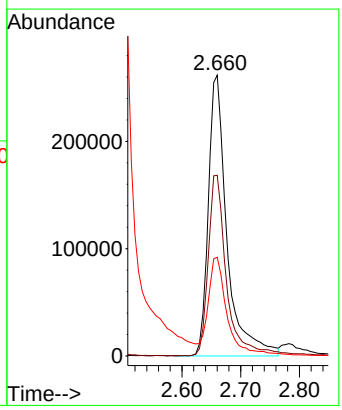


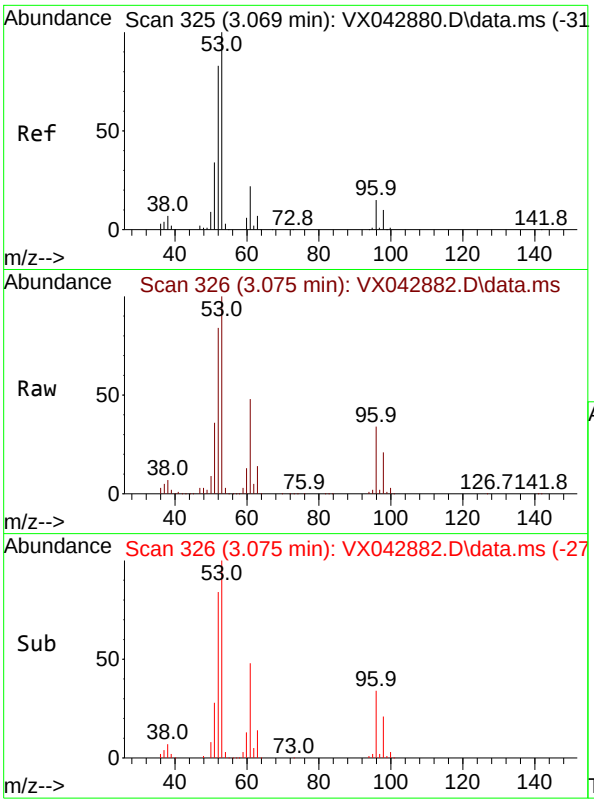


#14
Allyl chloride
Concen: 139.212 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 41 Resp: 578545

Ion	Ratio	Lower	Upper
41	100		
39	63.8	55.8	83.6
76	36.6	24.3	36.5#

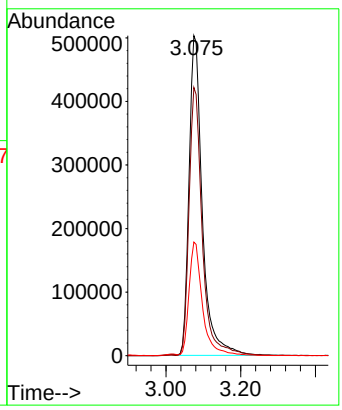




#15
Acrylonitrile
Concen: 714.929 ug/l
RT: 3.075 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 53 Resp: 124332

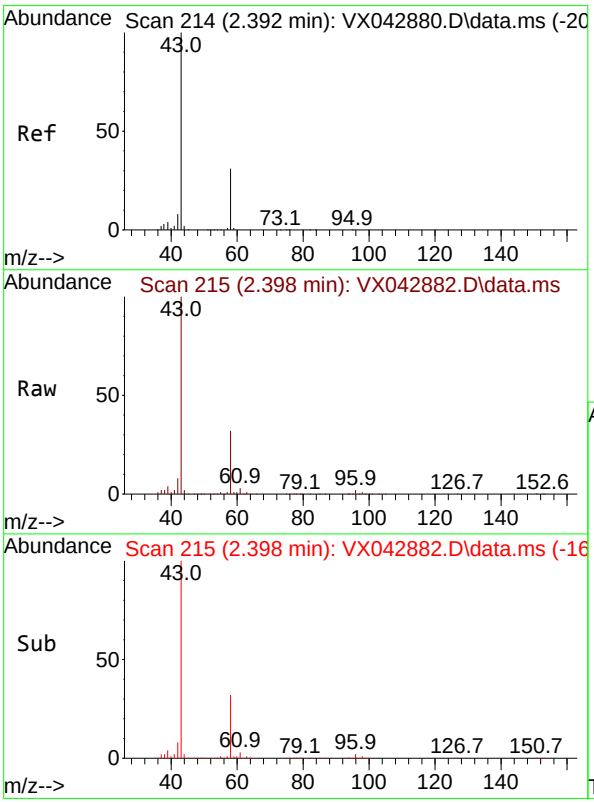
Ion	Ratio	Lower	Upper
53	100		
52	83.1	66.0	99.0
51	35.7	29.8	44.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

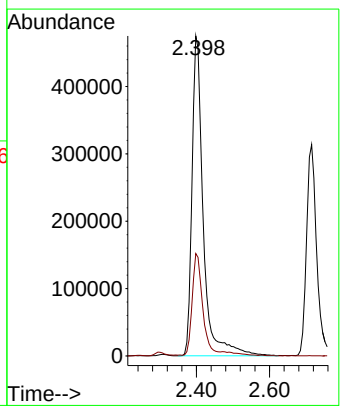
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

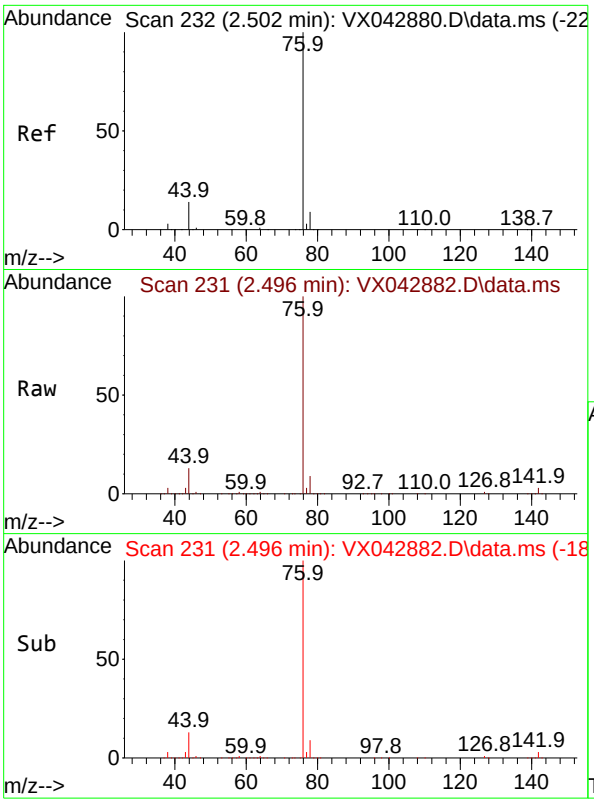


#16
Acetone
Concen: 685.828 ug/l
RT: 2.398 min Scan# 215
Delta R.T. 0.006 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 43 Resp: 1019014

Ion	Ratio	Lower	Upper
43	100		
58	32.0	21.9	32.9

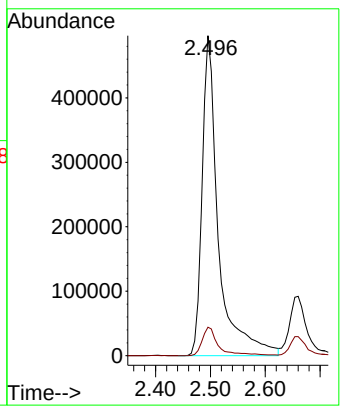




#17
Carbon Disulfide
Concen: 152.768 ug/l
RT: 2.496 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 76 Resp: 102247

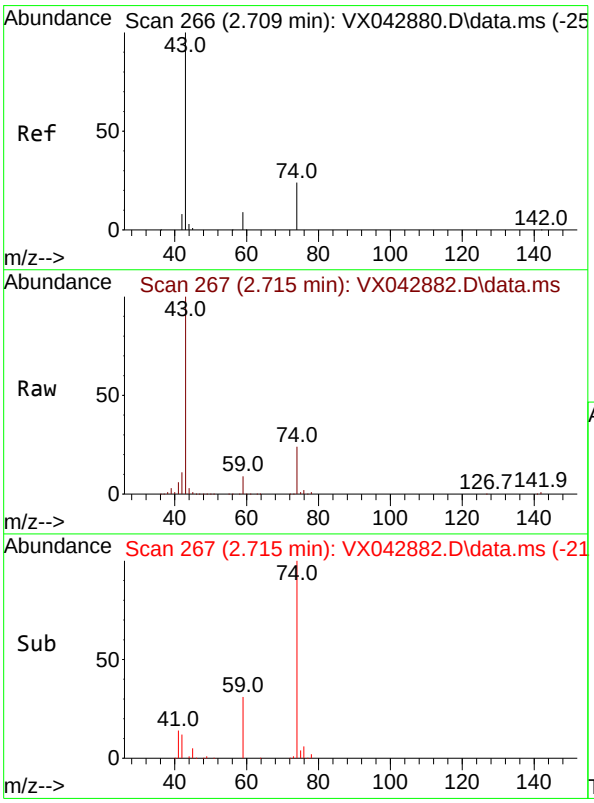
Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.0	10.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

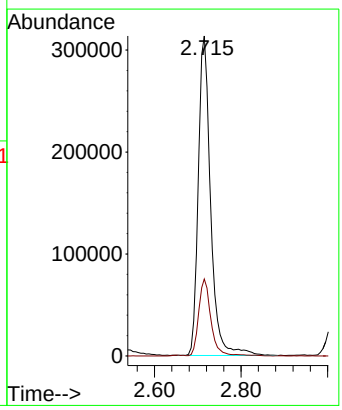
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

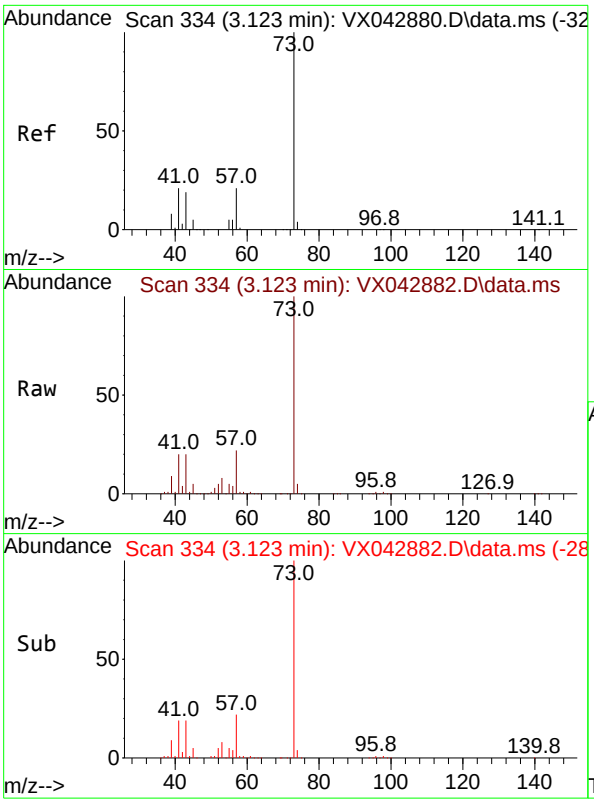


#18
Methyl Acetate
Concen: 131.516 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.006 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 43 Resp: 619665

Ion	Ratio	Lower	Upper
43	100		
74	23.9	17.8	26.8

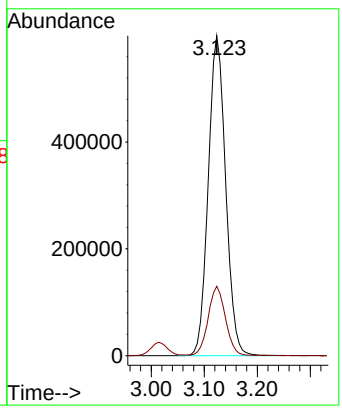




#19
Methyl tert-butyl Ether
Concen: 147.550 ug/l
RT: 3.123 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 73 Resp: 136592

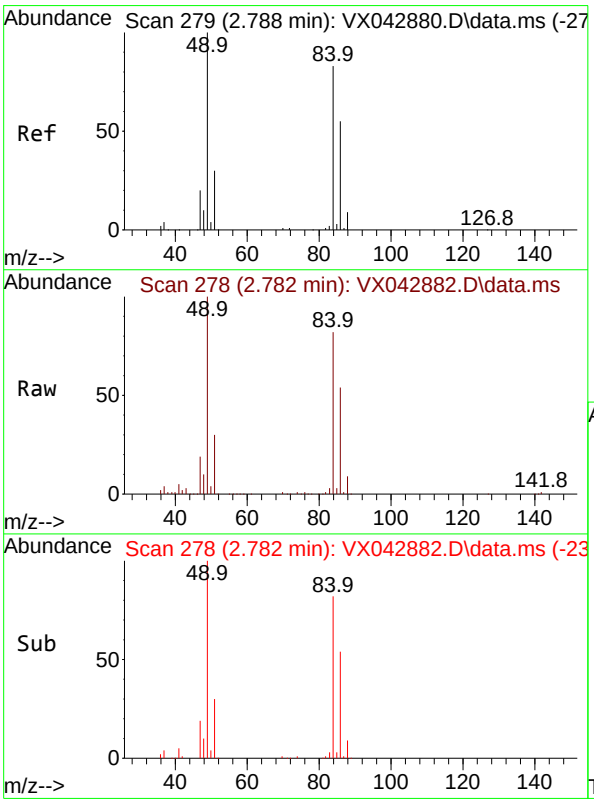
Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.3	25.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

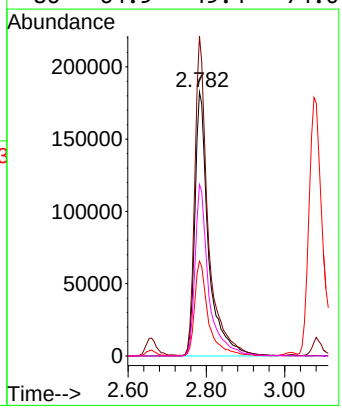
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

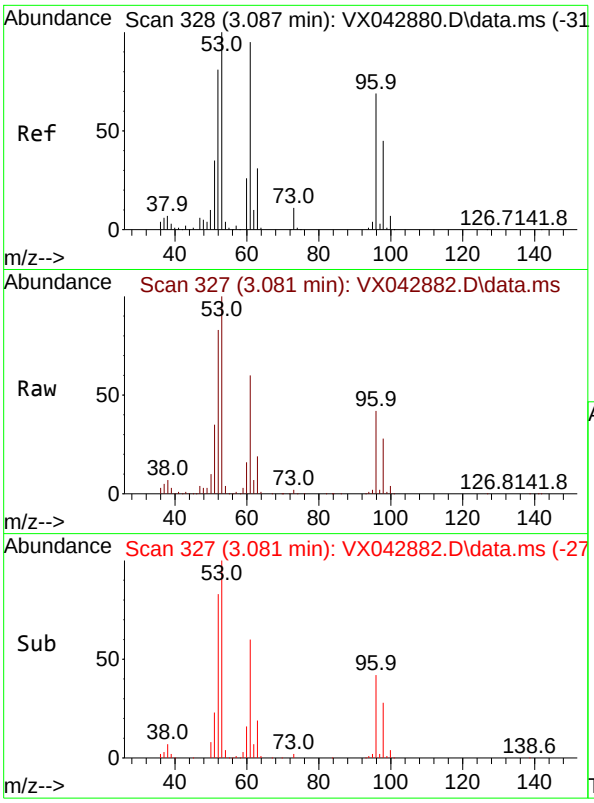


#20
Methylene Chloride
Concen: 149.698 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.006 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 84 Resp: 443974

Ion	Ratio	Lower	Upper
84	100		
49	121.1	103.6	155.4
51	35.9	33.8	50.6
86	64.9	49.4	74.0

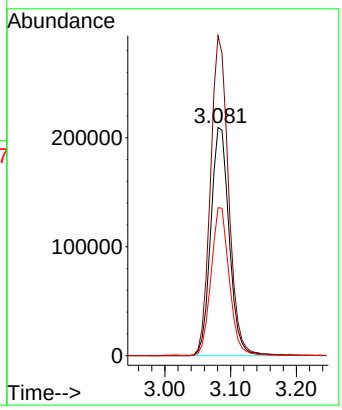




#21
trans-1,2-Dichloroethene
Concen: 147.510 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 96 Resp: 40818

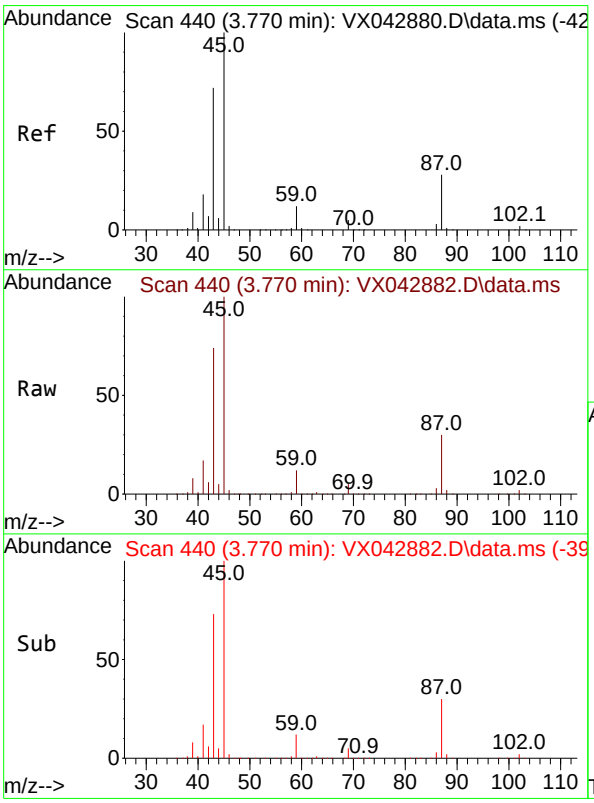
Ion	Ratio	Lower	Upper
96	100		
61	140.0	119.2	178.8
98	64.8	48.7	73.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

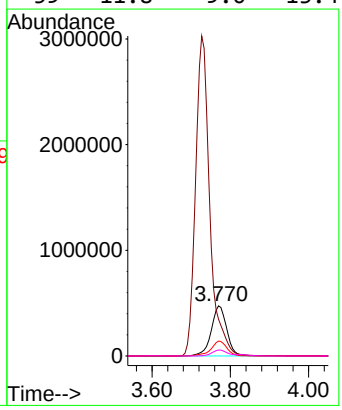
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

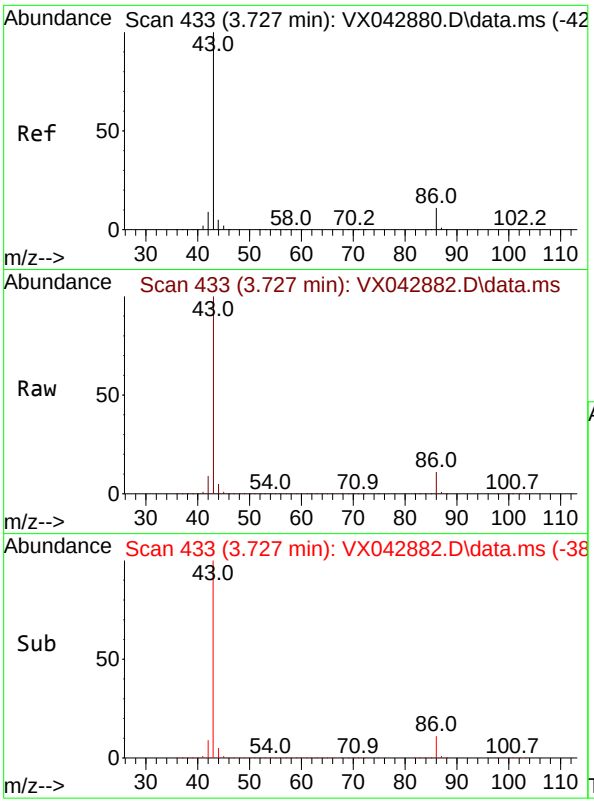


#22
Diisopropyl ether
Concen: 142.127 ug/l
RT: 3.770 min Scan# 440
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 45 Resp: 1297577

Ion	Ratio	Lower	Upper
45	100		
43	73.5	69.7	104.5
87	29.5	20.8	31.2
59	11.8	9.0	13.4





#23
Vinyl Acetate
Concen: 737.390 ug/l
RT: 3.727 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

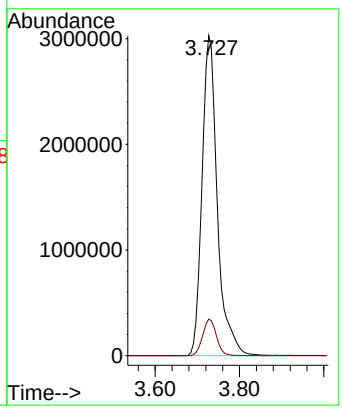
Tgt Ion: 43 Resp: 764070

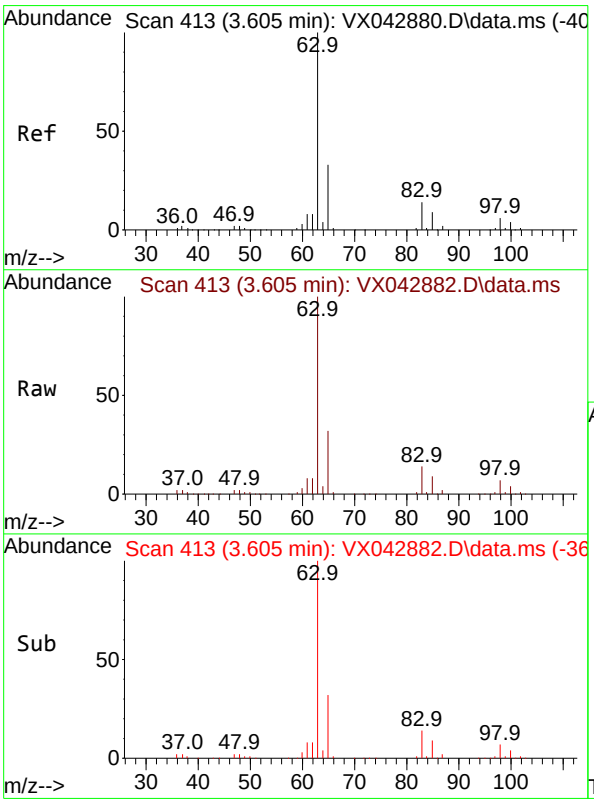
Ion	Ratio	Lower	Upper
43	100		
86	11.4	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

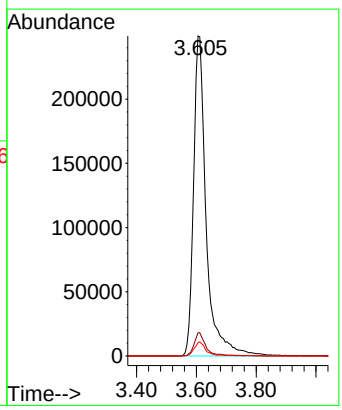


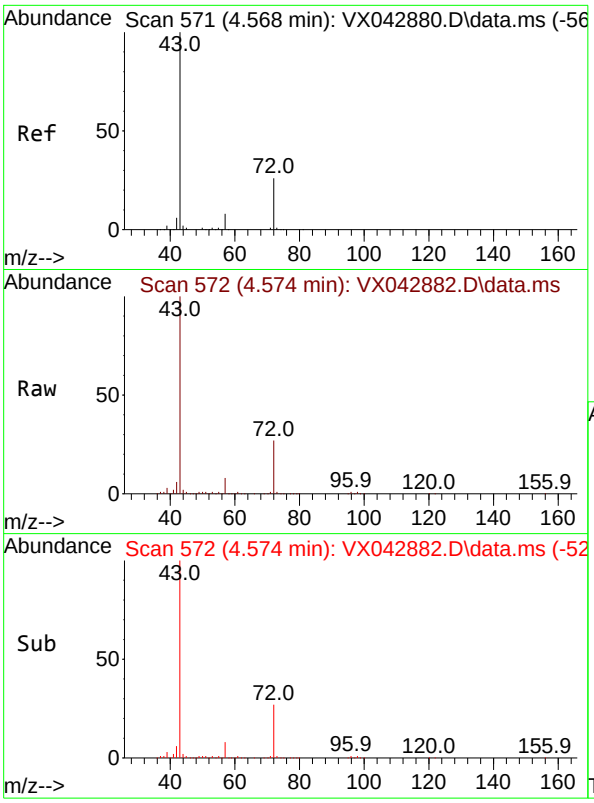


#24
1,1-Dichloroethane
Concen: 139.127 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 63 Resp: 730518

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.3	9.8
100	4.1	2.1	6.5





#25
2-Butanone
Concen: 719.777 ug/l
RT: 4.574 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

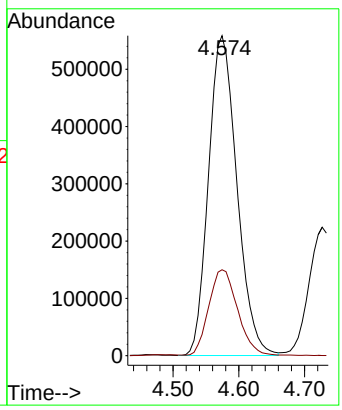
Tgt Ion: 43 Resp: 167950

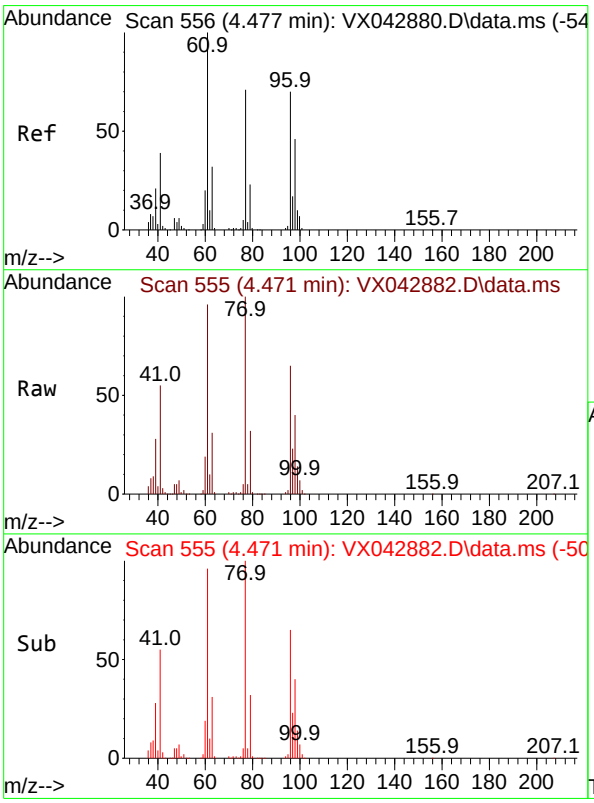
Ion	Ratio	Lower	Upper
43	100		
72	26.7	19.4	29.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

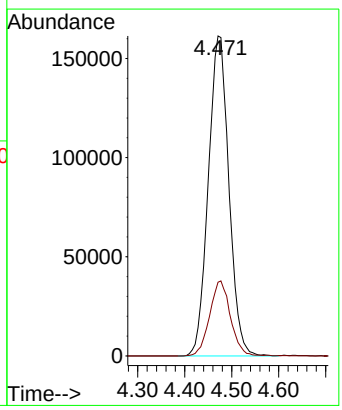


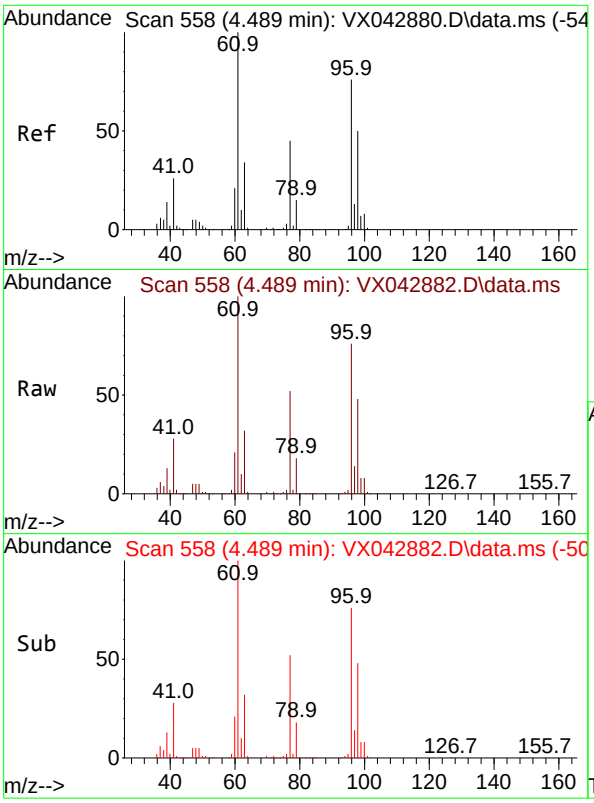


#26
2,2-Dichloropropane
Concen: 151.925 ug/l
RT: 4.471 min Scan# 555
Delta R.T. -0.006 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 77 Resp: 490409

Ion	Ratio	Lower	Upper
77	100		
97	23.8	10.8	32.3

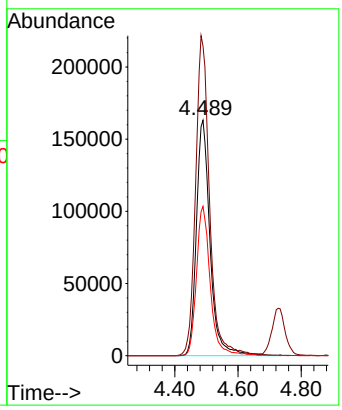




#27
cis-1,2-Dichloroethene
Concen: 149.367 ug/l
RT: 4.489 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 96 Resp: 49016

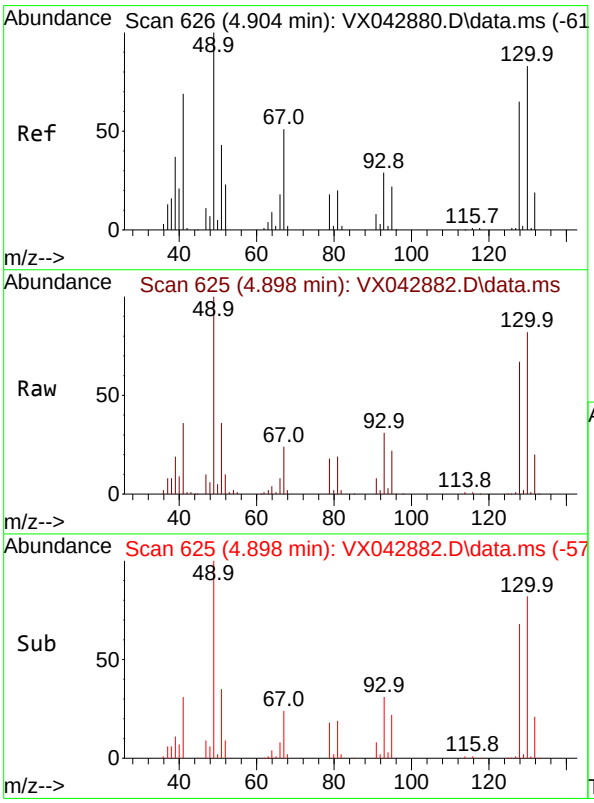
Ion	Ratio	Lower	Upper
96	100		
61	138.9	0.0	312.2
98	64.0	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

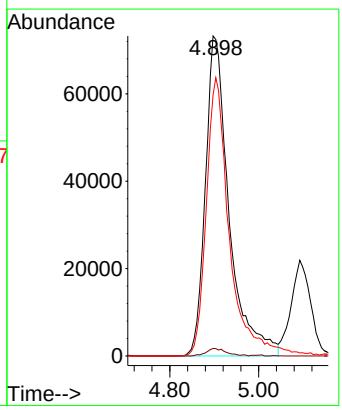
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

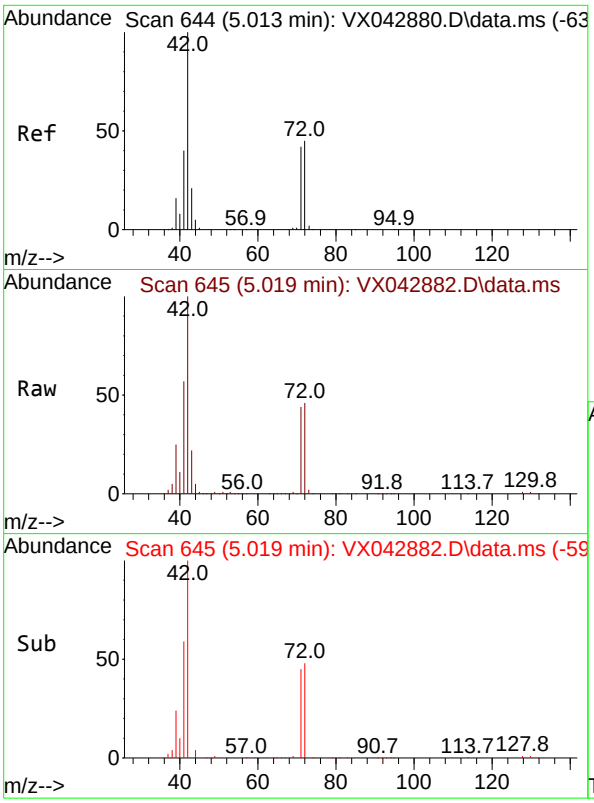


#28
Bromochloromethane
Concen: 134.809 ug/l
RT: 4.898 min Scan# 625
Delta R.T. -0.006 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 49 Resp: 271608

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	3.8
130	85.0	57.5	86.3





#29
Tetrahydrofuran
Concen: 696.696 ug/l
RT: 5.019 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

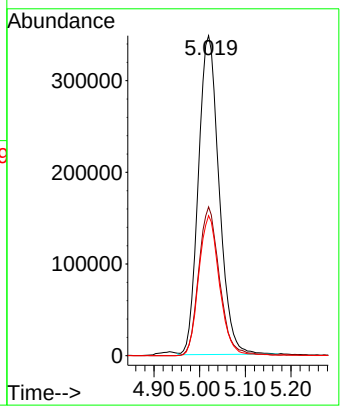
Tgt Ion: 42 Resp: 109850

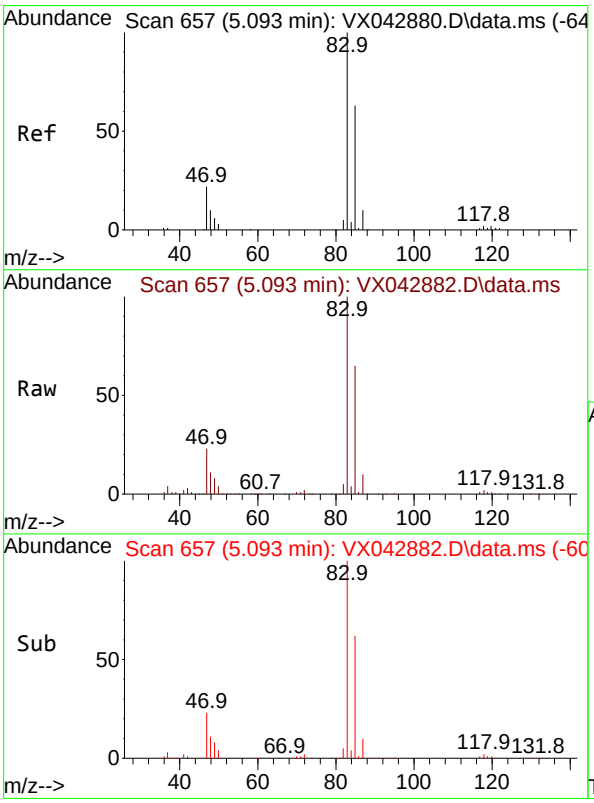
Ion	Ratio	Lower	Upper
42	100		
72	47.1	34.2	51.4
71	44.0	32.2	48.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

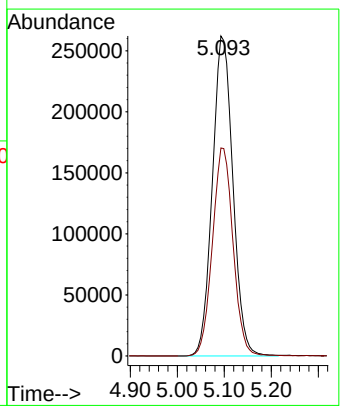


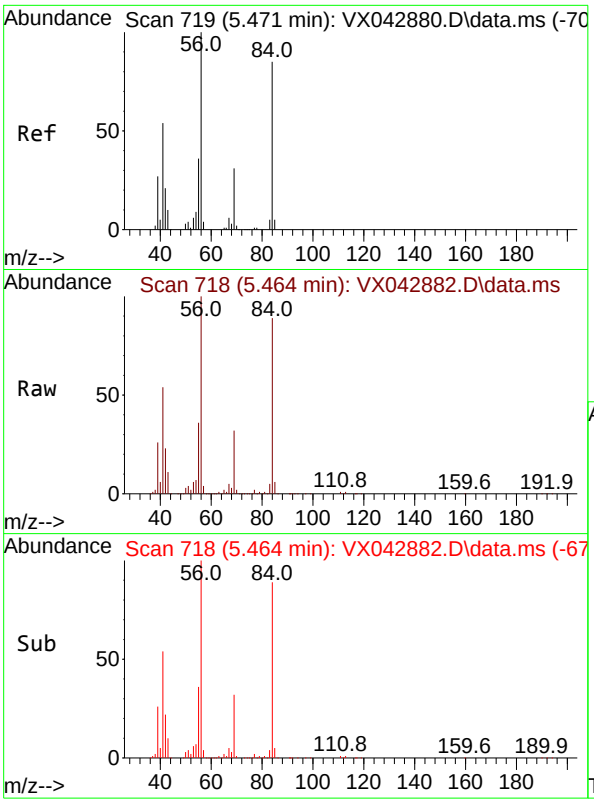


#30
Chloroform
Concen: 144.631 ug/l
RT: 5.093 min Scan# 657
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 83 Resp: 795011

Ion	Ratio	Lower	Upper
83	100		
85	65.0	50.3	75.5

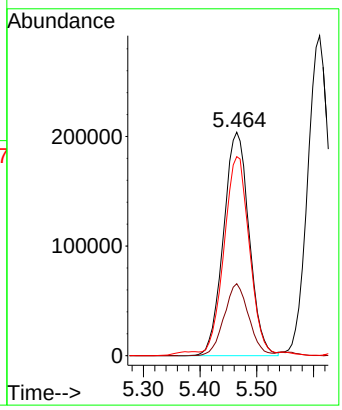




#31
Cyclohexane
Concen: 149.382 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 56 Resp: 64028

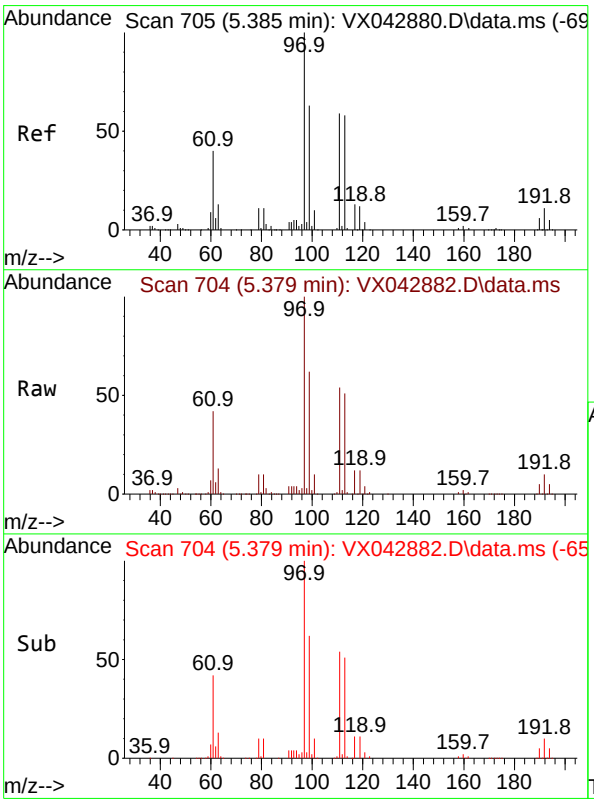
Ion	Ratio	Lower	Upper
56	100		
69	32.2	23.4	35.2
84	87.8	65.9	98.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

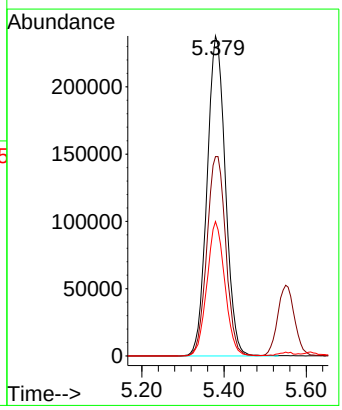
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

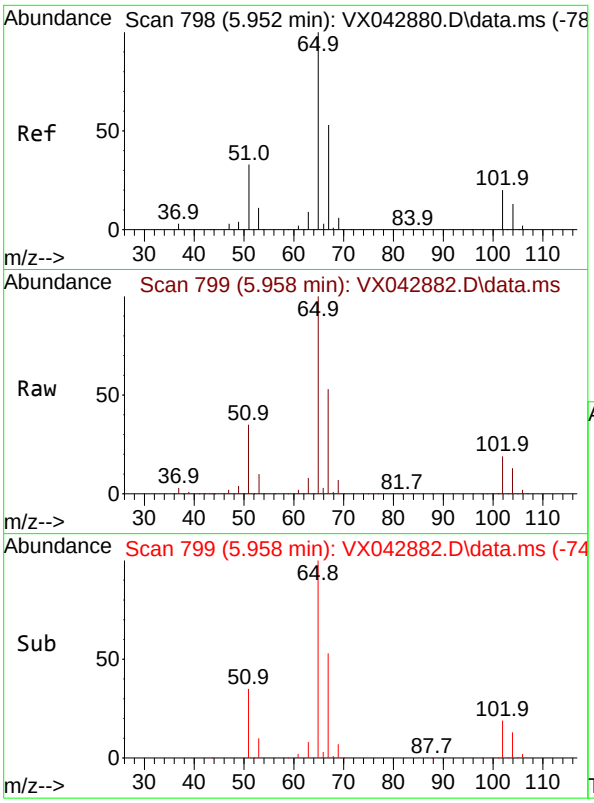


#32
1,1,1-Trichloroethane
Concen: 152.280 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 97 Resp: 736884

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.1	76.7
61	41.1	36.4	54.6





#33
1,2-Dichloroethane-d4
Concen: 149.352 ug/l
RT: 5.958 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

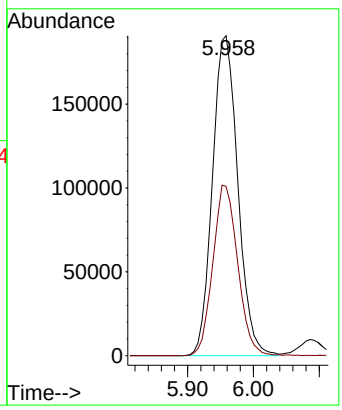
Tgt Ion: 65 Resp: 51162

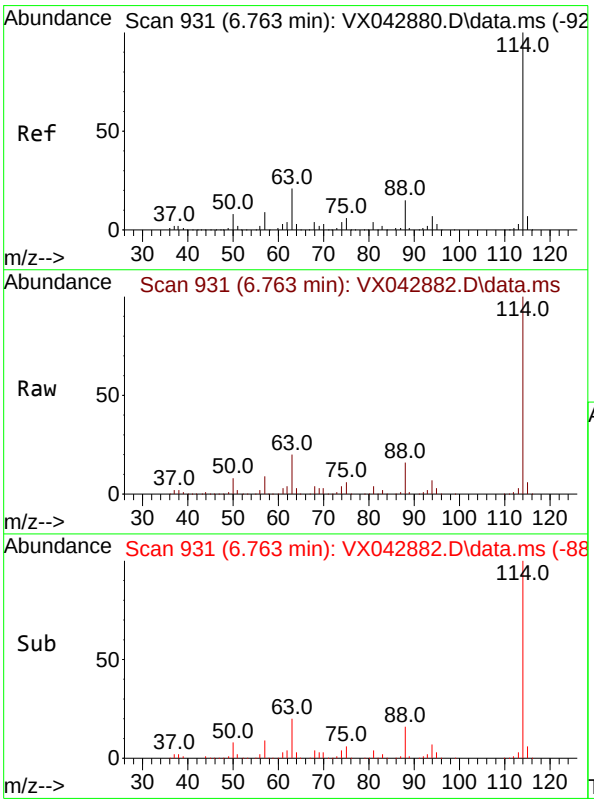
Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	100.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

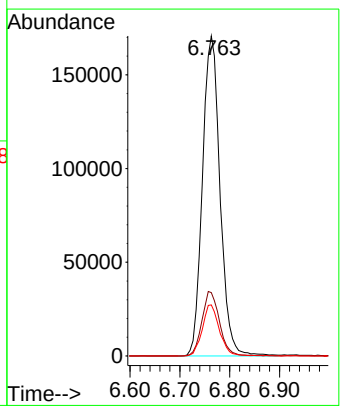


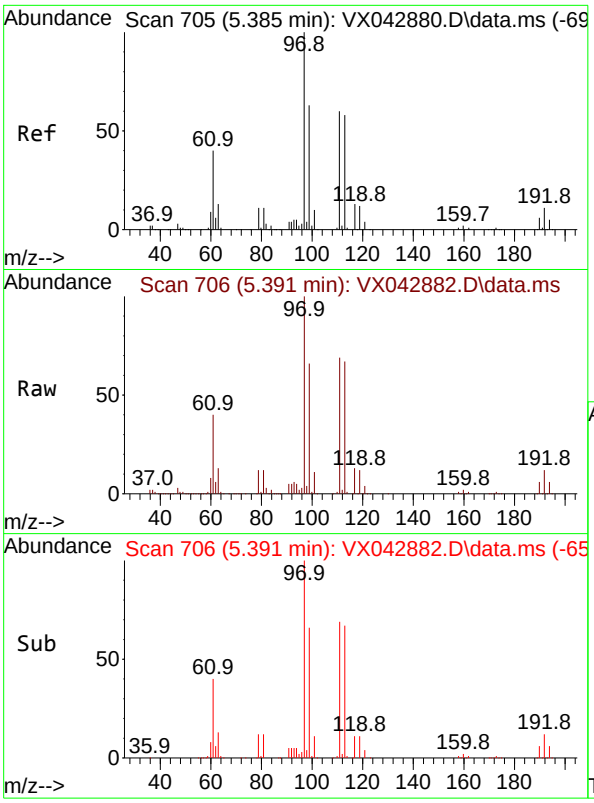


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion:114 Resp: 418487

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	45.0
88	16.0	0.0	36.6

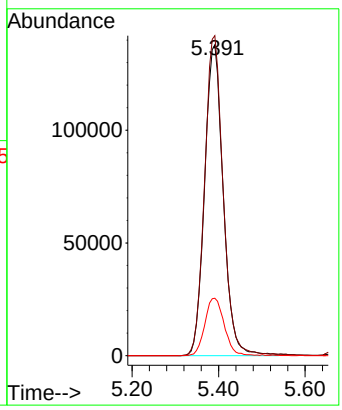




#35
Dibromofluoromethane
Concen: 150.793 ug/l
RT: 5.391 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion:113 Resp: 41261

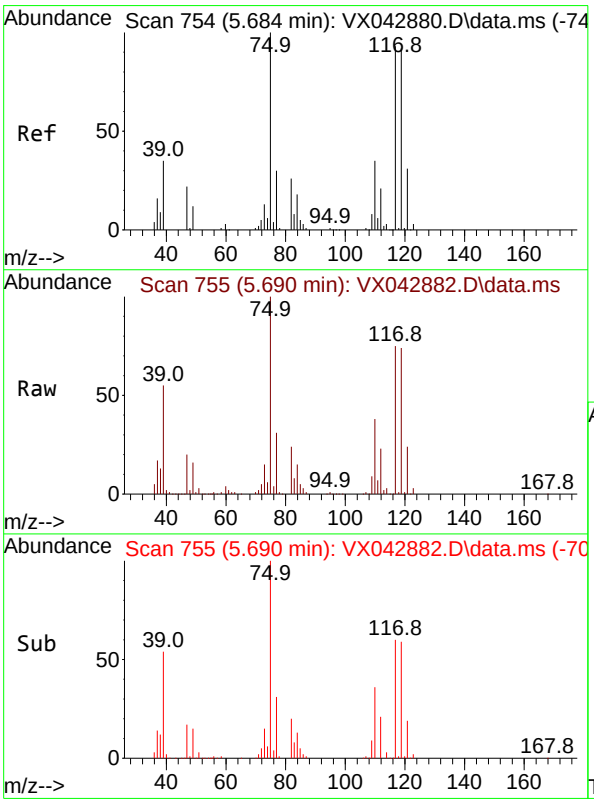
Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.9	124.3
192	19.2	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

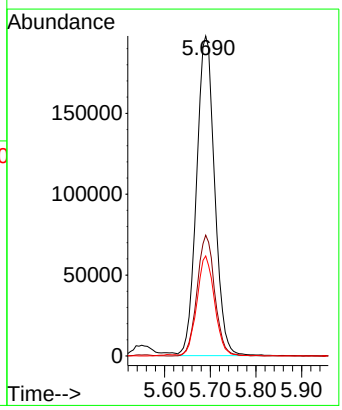
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

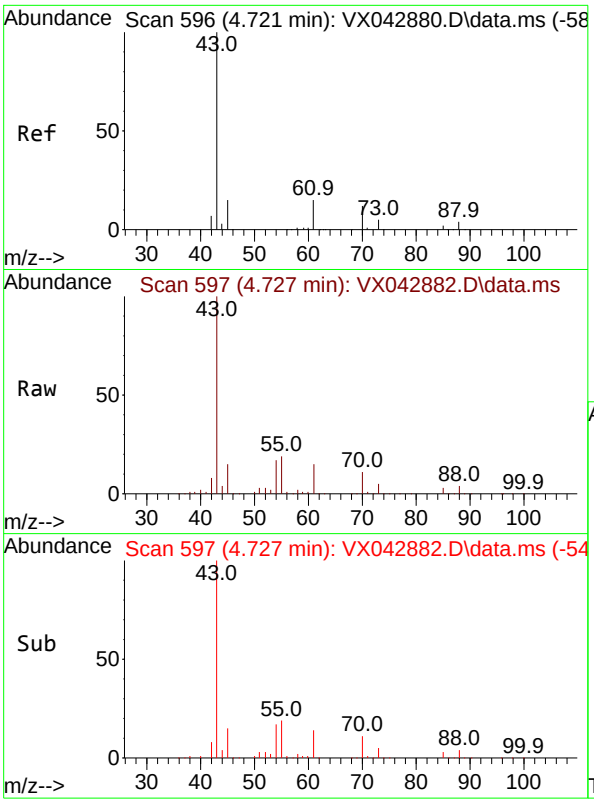


#36
1,1-Dichloropropene
Concen: 146.260 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.006 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 75 Resp: 542603

Ion	Ratio	Lower	Upper
75	100		
110	37.0	17.0	50.9
77	30.5	24.7	37.1

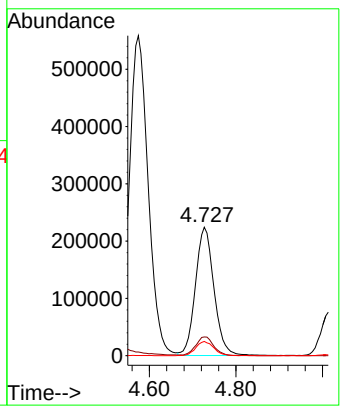




#37
Ethyl Acetate
Concen: 143.391 ug/l
RT: 4.727 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 43 Resp: 66557

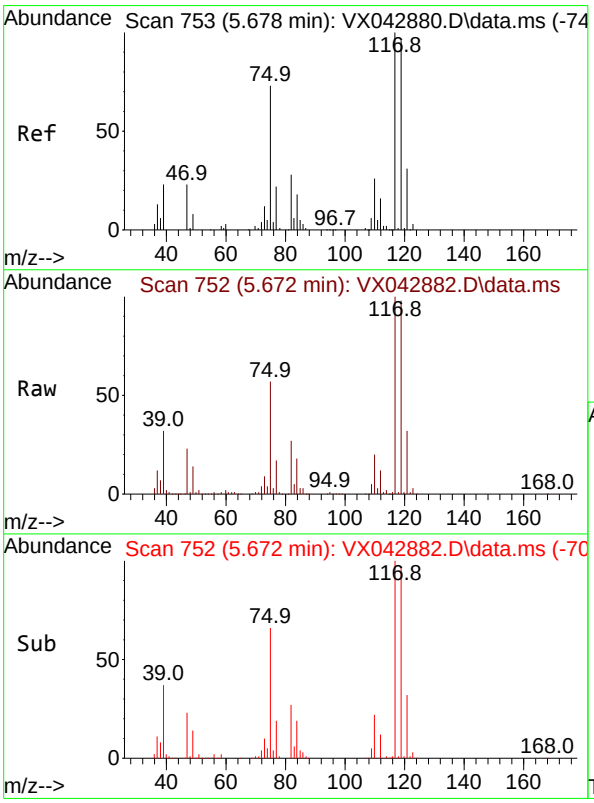
Ion	Ratio	Lower	Upper
43	100		
61	14.2	10.6	16.0
70	10.8	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

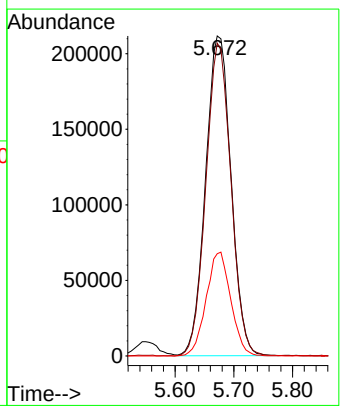
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

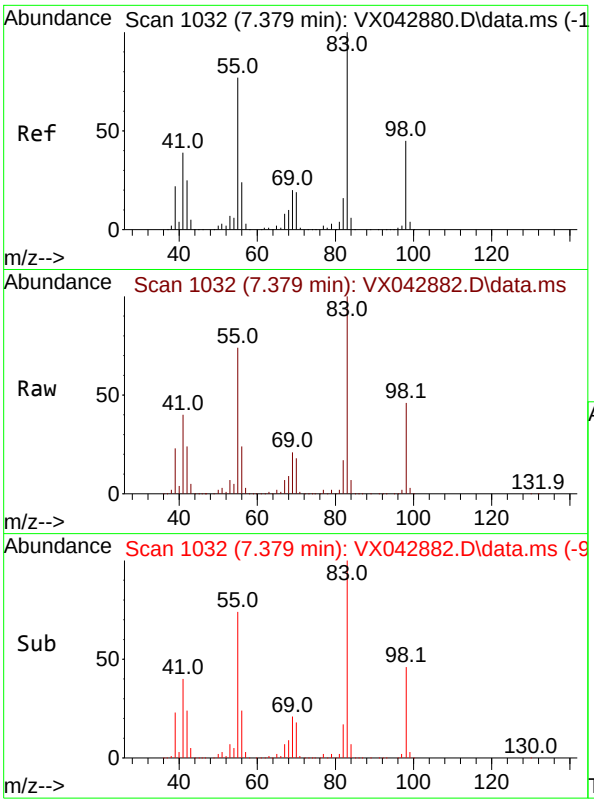


#38
Carbon Tetrachloride
Concen: 152.395 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.006 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion:117 Resp: 638203

Ion	Ratio	Lower	Upper
117	100		
119	97.7	78.2	117.2
121	31.9	24.4	36.6

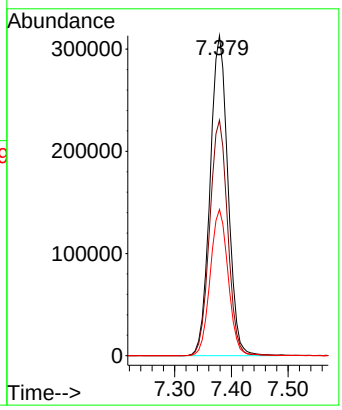




#39
Methylcyclohexane
Concen: 155.415 ug/l
RT: 7.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 83 Resp: 68540

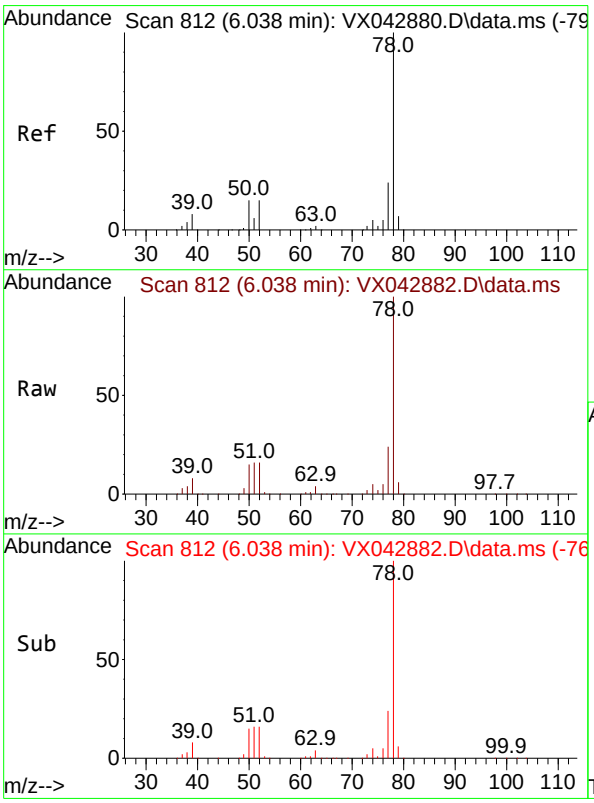
Ion	Ratio	Lower	Upper
83	100		
55	73.6	64.6	97.0
98	45.7	36.7	55.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

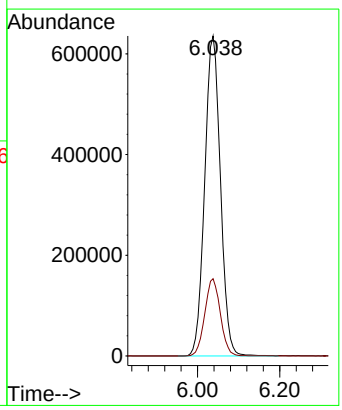
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

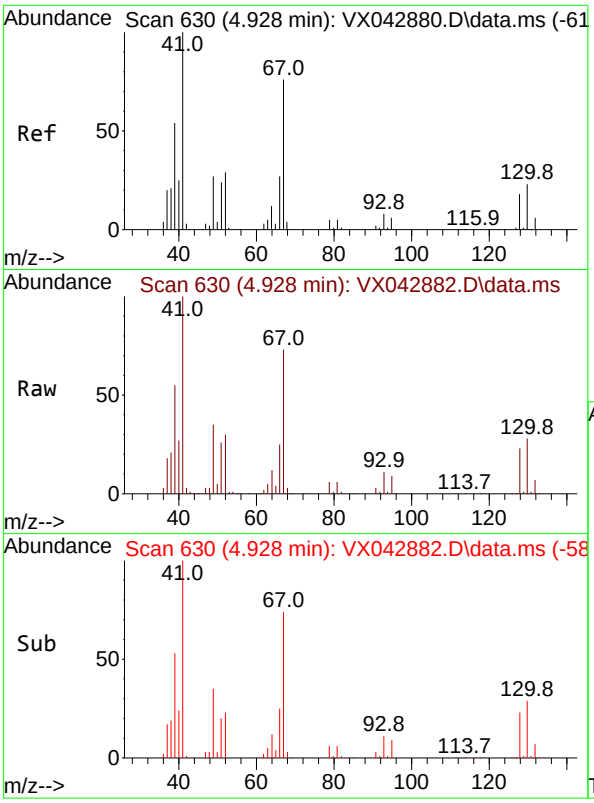


#40
Benzene
Concen: 146.556 ug/l
RT: 6.038 min Scan# 812
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 78 Resp: 1687417

Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.3	28.9

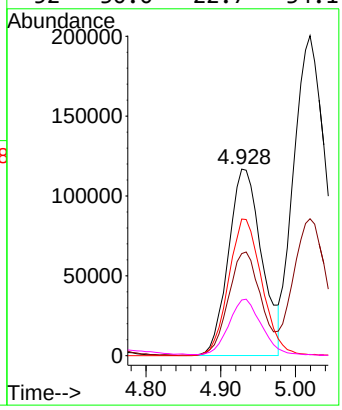




#41
Methacrylonitrile
Concen: 151.722 ug/l
RT: 4.928 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 41 Resp: 36272

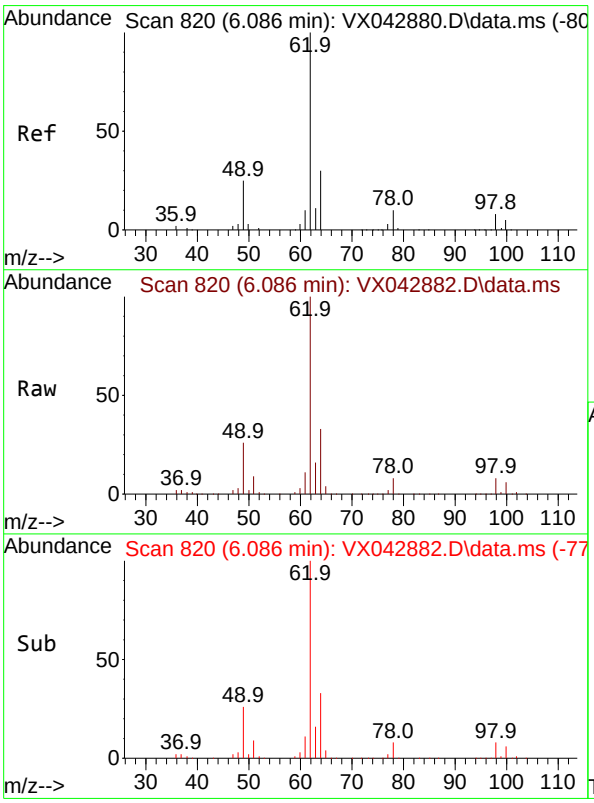
Ion	Ratio	Lower	Upper
41	100		
39	53.2	45.2	67.8
67	73.4	52.6	78.8
52	30.0	22.7	34.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

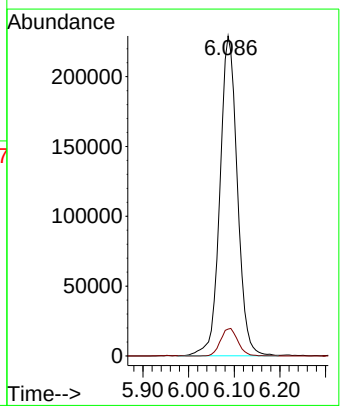
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

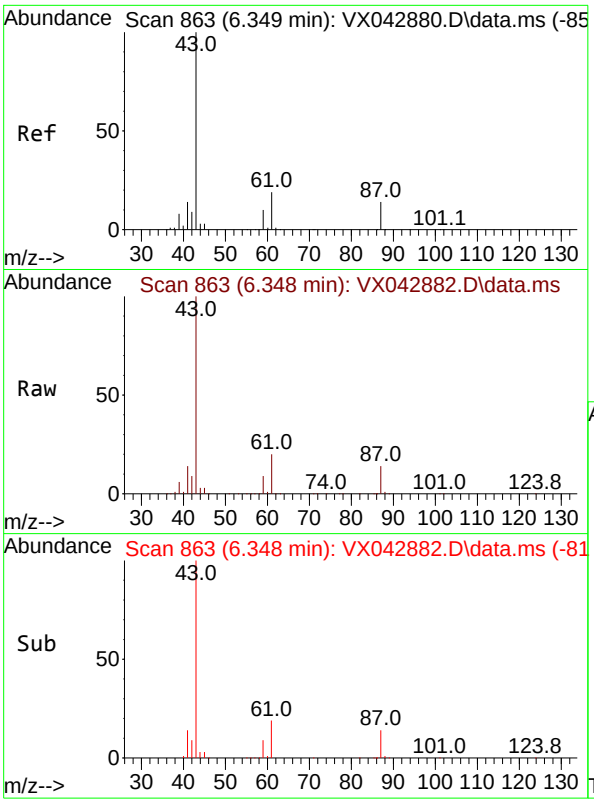


#42
1,2-Dichloroethane
Concen: 145.065 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 62 Resp: 607527

Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	16.0





#43
Isopropyl Acetate
Concen: 153.944 ug/l
RT: 6.348 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

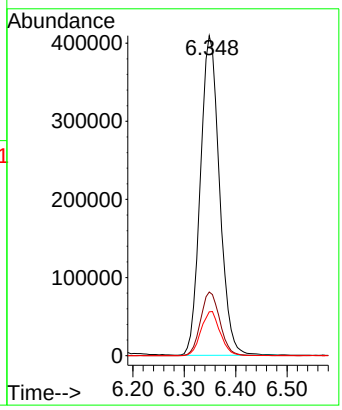
Tgt Ion: 43 Resp: 105676

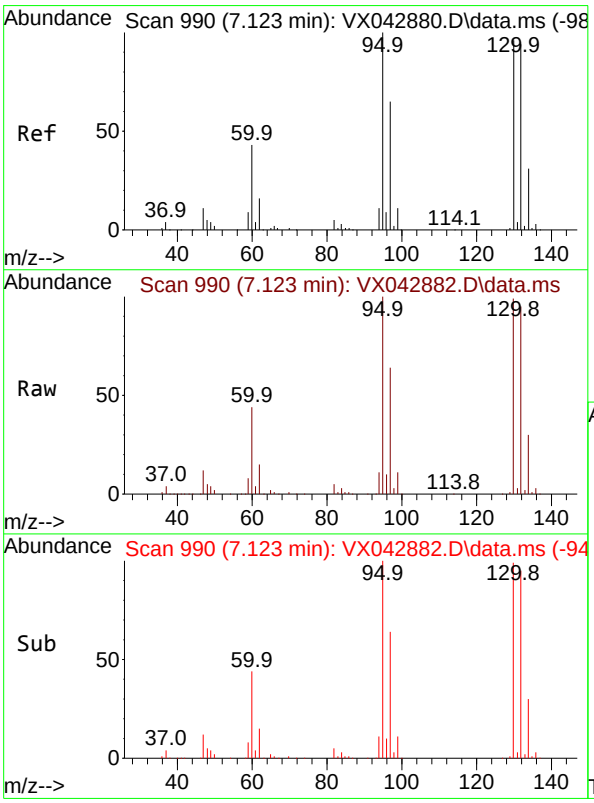
Ion	Ratio	Lower	Upper
43	100		
61	20.2	15.2	22.8
87	13.9	9.8	14.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

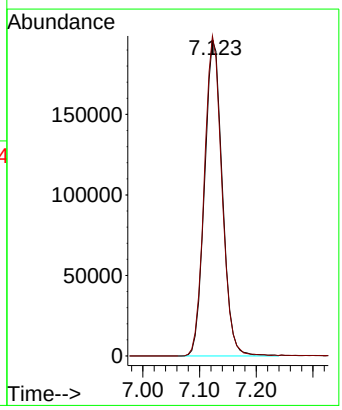


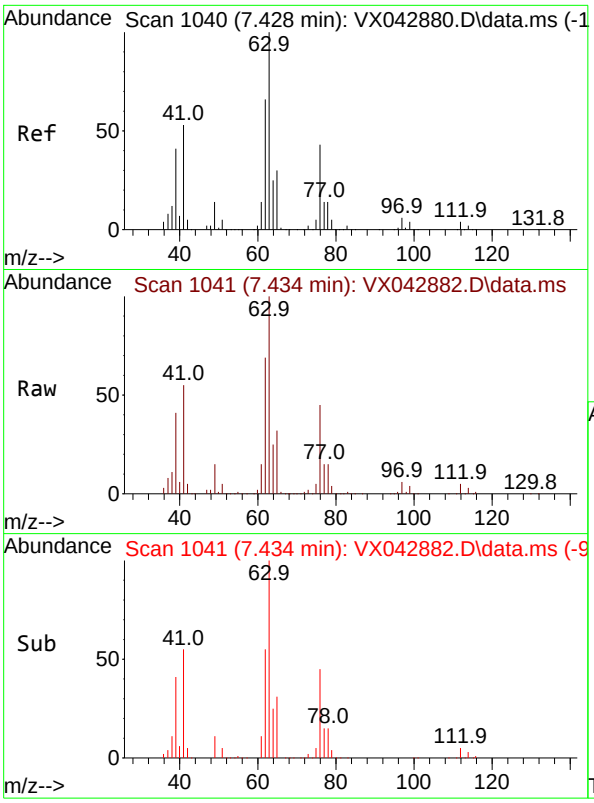


#44
Trichloroethene
Concen: 147.453 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion:130 Resp: 426591

Ion	Ratio	Lower	Upper
130	100		
95	101.3	0.0	204.4





#45
1,2-Dichloropropane
Concen: 142.637 ug/l
RT: 7.434 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

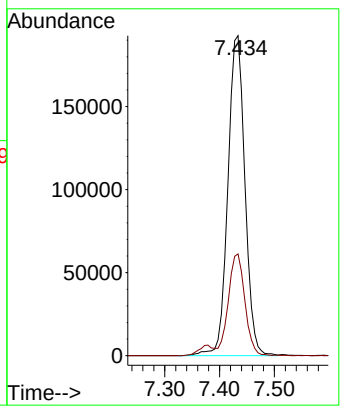
Tgt Ion: 63 Resp: 41660

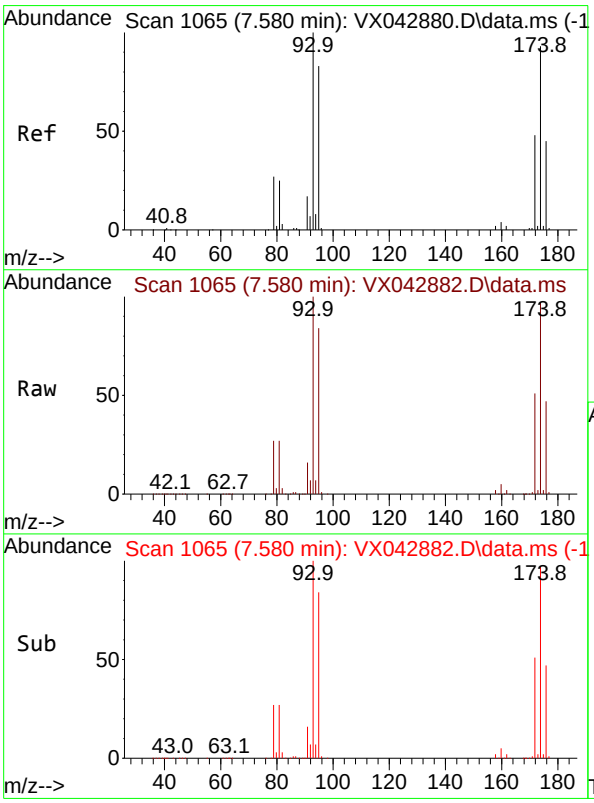
Ion	Ratio	Lower	Upper
63	100		
65	31.8	24.3	36.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

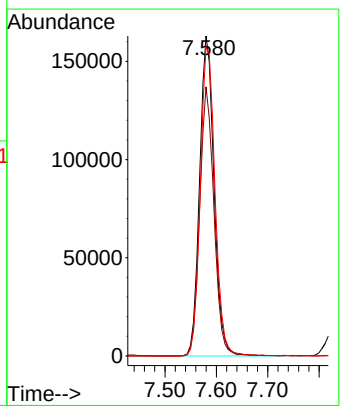


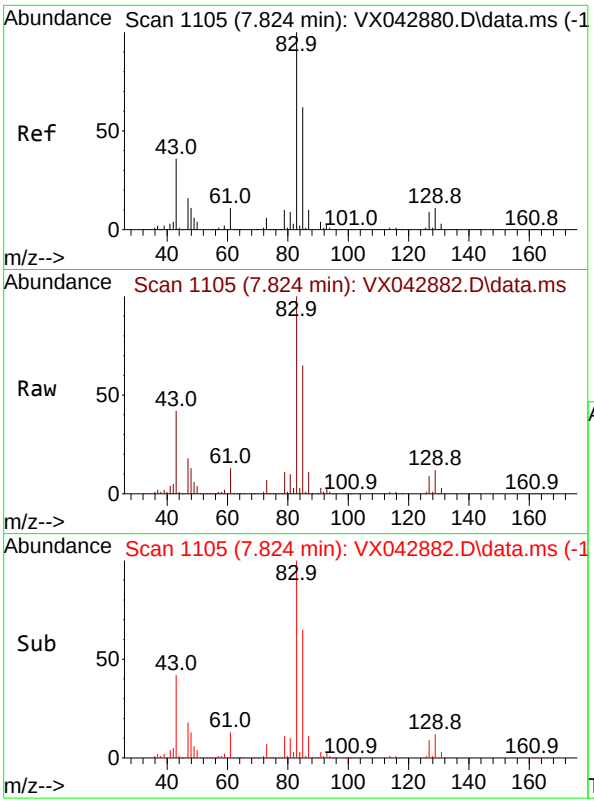


#46
Dibromomethane
Concen: 148.250 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 93 Resp: 318013

Ion	Ratio	Lower	Upper
93	100		
95	82.8	66.6	100.0
174	98.7	69.4	104.0

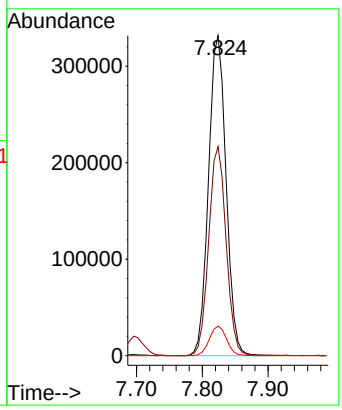




#47
Bromodichloromethane
Concen: 155.039 ug/l
RT: 7.824 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 83 Resp: 61781

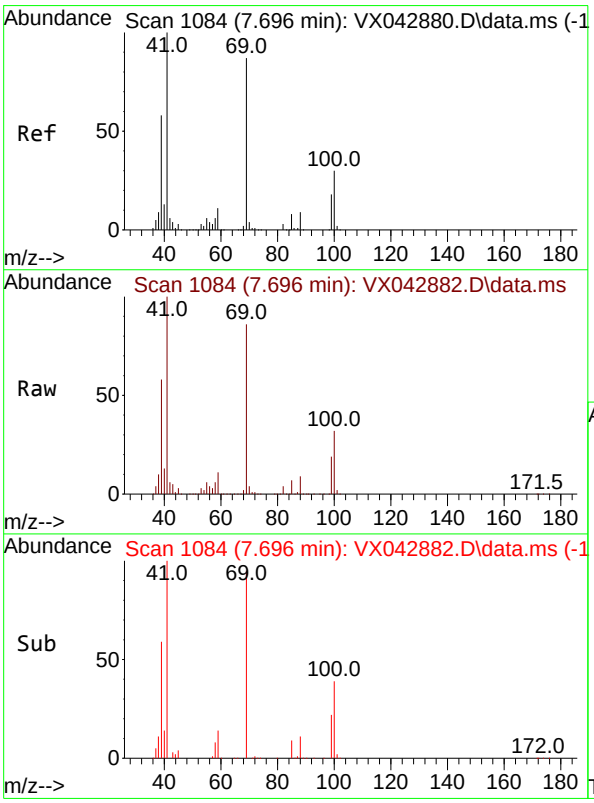
Ion	Ratio	Lower	Upper
83	100		
85	65.3	49.8	74.6
127	9.3	7.1	10.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

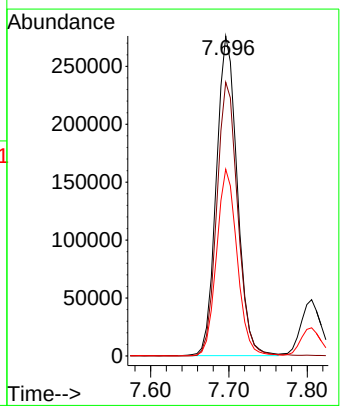
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

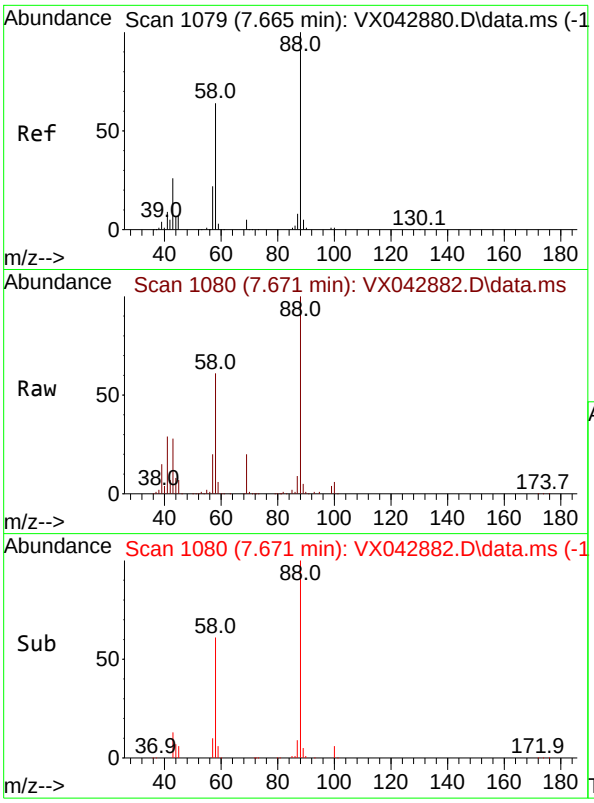


#48
Methyl methacrylate
Concen: 155.656 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 41 Resp: 512358

Ion	Ratio	Lower	Upper
41	100		
69	86.1	59.2	88.8
39	57.6	47.7	71.5

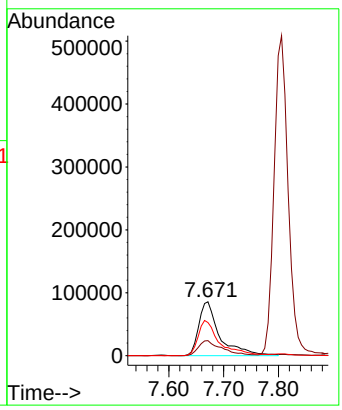




#49
1,4-Dioxane
Concen: 2991.192 ug/l
RT: 7.671 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 88 Resp: 22799

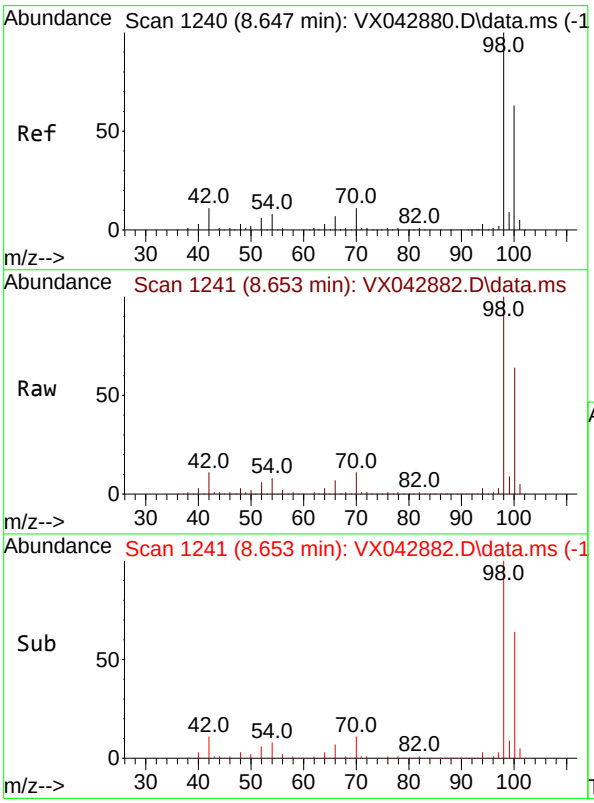
Ion	Ratio	Lower	Upper
88	100		
43	31.0	0.0	0.0
58	66.1	60.1	90.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

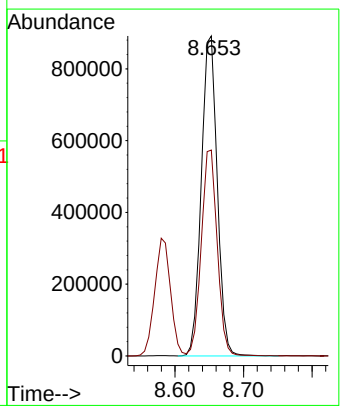
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

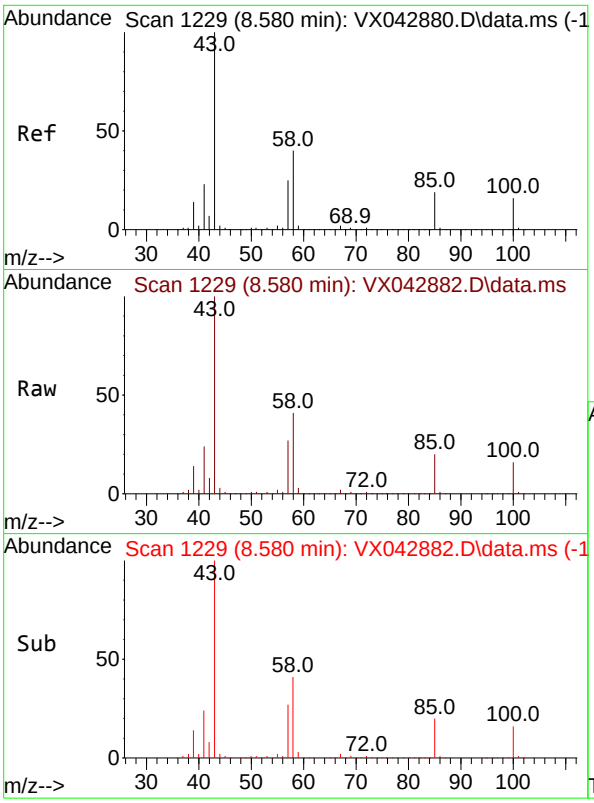


#50
Toluene-d8
Concen: 148.775 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.006 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 98 Resp: 1445180

Ion	Ratio	Lower	Upper
98	100		
100	64.3	53.1	79.7





#51
4-Methyl-2-Pentanone
Concen: 726.586 ug/l
RT: 8.580 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

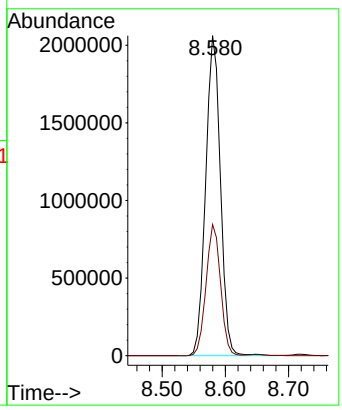
Tgt Ion: 43 Resp: 334096

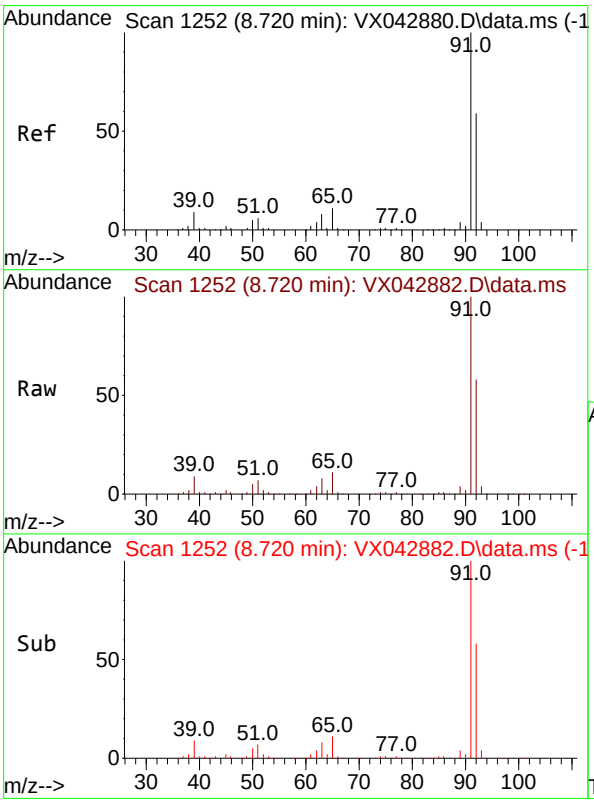
Ion	Ratio	Lower	Upper
43	100		
58	40.3	30.4	45.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

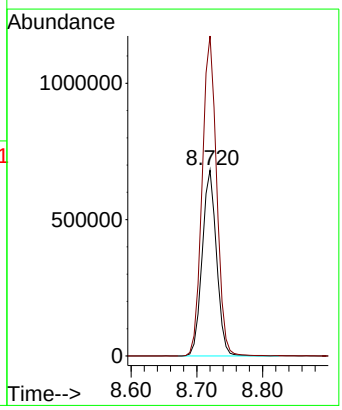


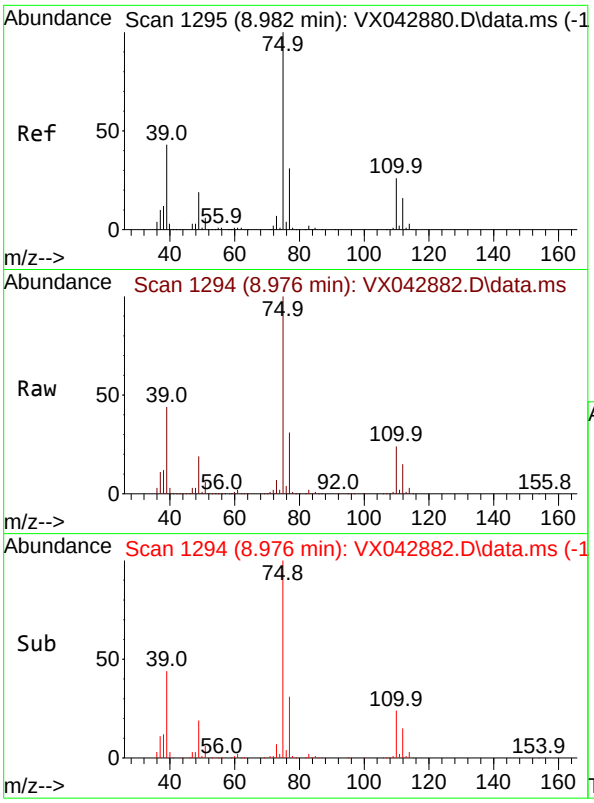


#52
Toluene
Concen: 148.054 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 92 Resp: 1034015

Ion	Ratio	Lower	Upper
92	100		
91	174.1	134.2	201.2

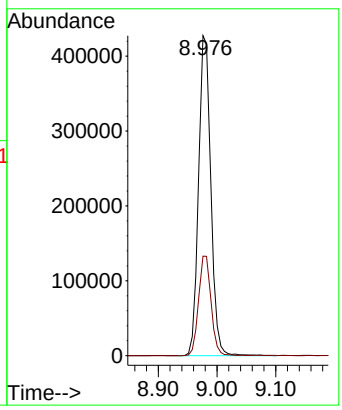




#53
t-1,3-Dichloropropene
Concen: 167.964 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 75 Resp: 61872

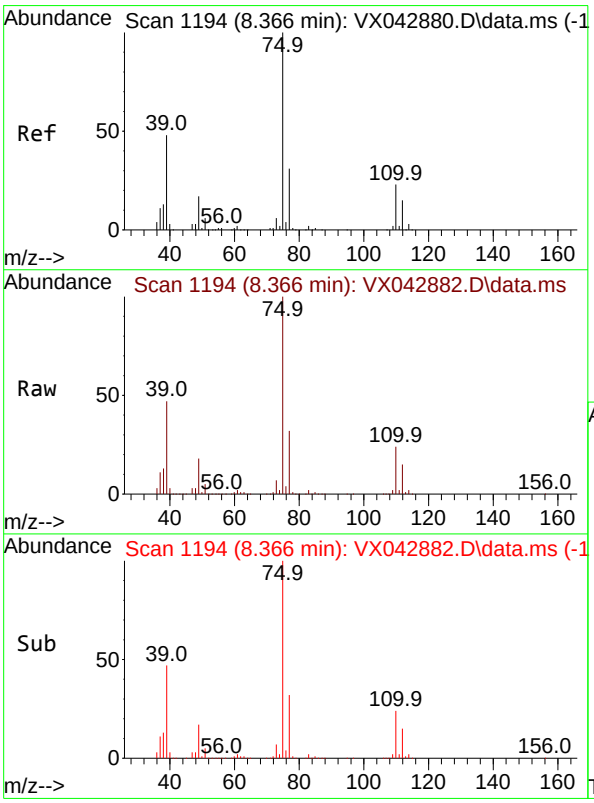
Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

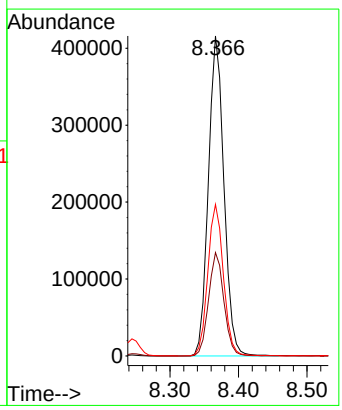
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

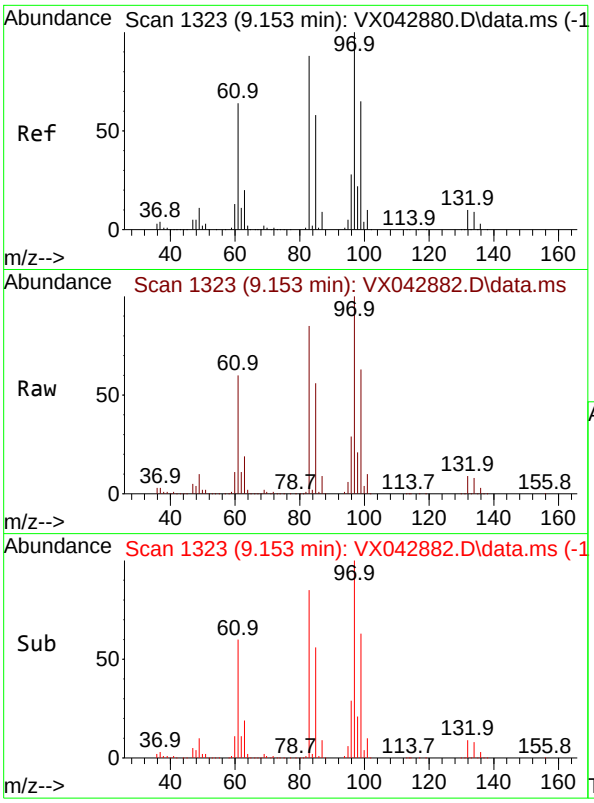


#54
cis-1,3-Dichloropropene
Concen: 161.195 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 75 Resp: 655772

Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.3	37.9
39	47.4	46.7	70.1

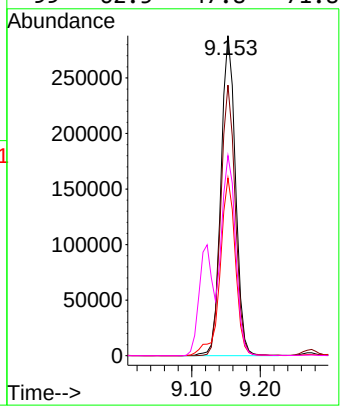




#55
1,1,2-Trichloroethane
Concen: 149.346 ug/l
RT: 9.153 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 97 Resp: 42402

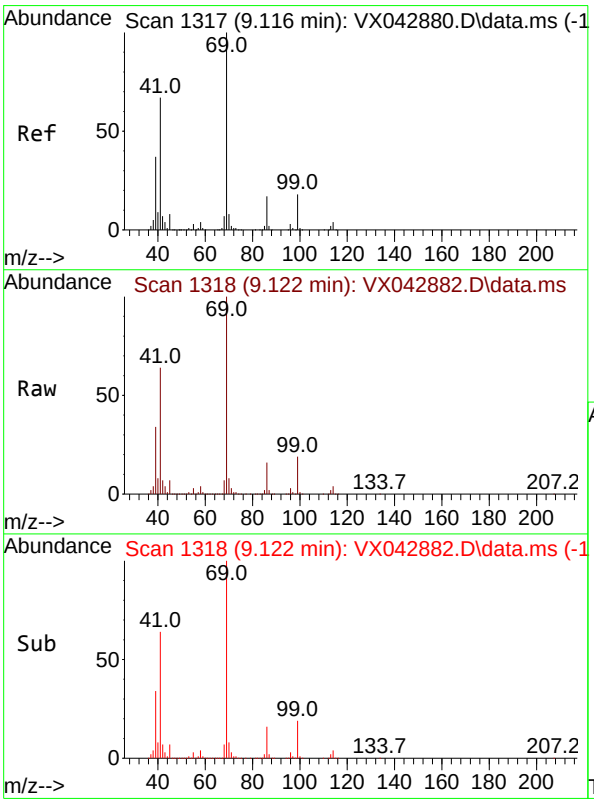
Ion	Ratio	Lower	Upper
97	100		
83	84.6	65.8	98.8
85	55.5	41.6	62.4
99	62.5	47.8	71.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

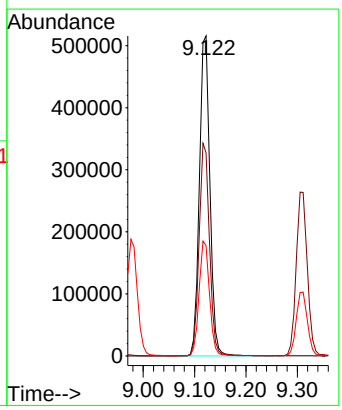
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

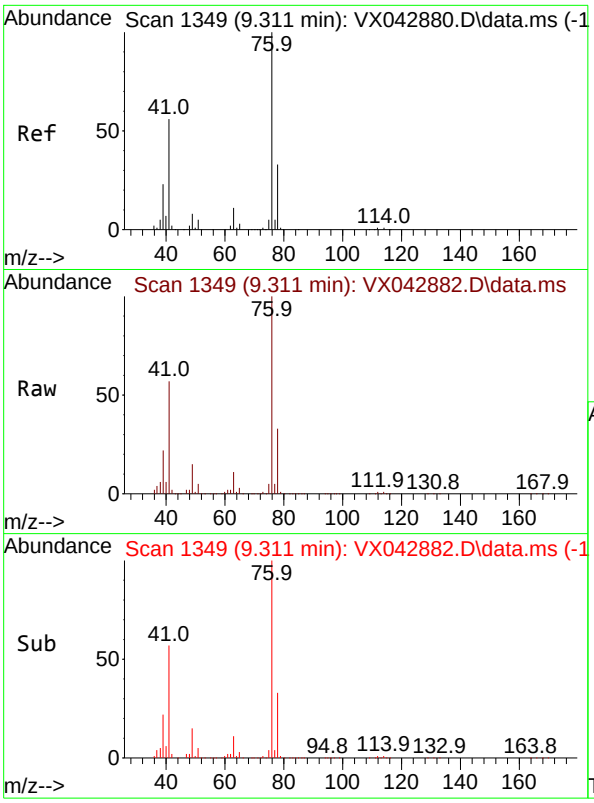


#56
Ethyl methacrylate
Concen: 160.150 ug/l
RT: 9.122 min Scan# 1318
Delta R.T. 0.006 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 69 Resp: 731692

Ion	Ratio	Lower	Upper
69	100		
41	65.6	56.8	85.2
39	35.7	32.0	48.0





#57
1,3-Dichloropropane
Concen: 146.778 ug/l
RT: 9.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

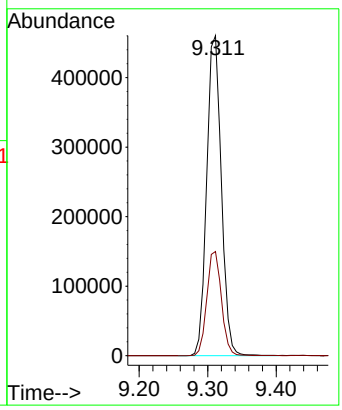
Tgt Ion: 76 Resp: 68267

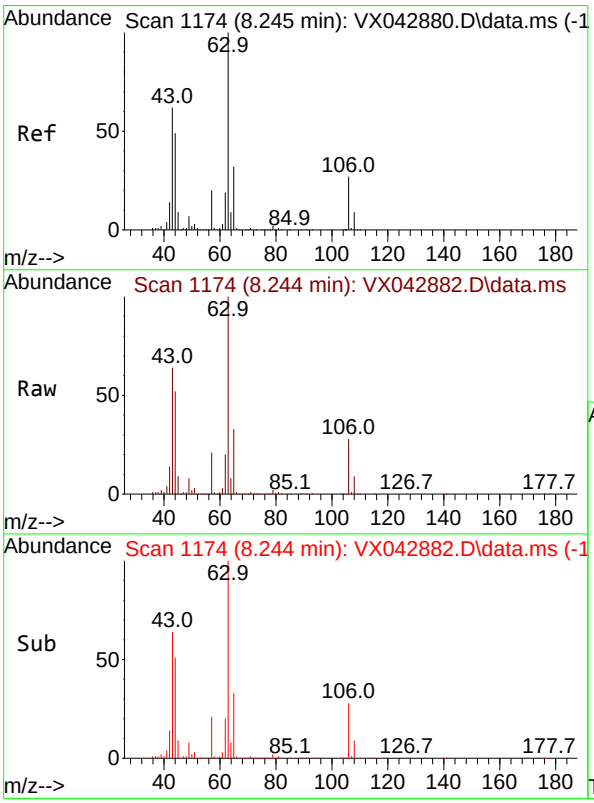
Ion	Ratio	Lower	Upper
76	100		
78	32.5	26.1	39.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

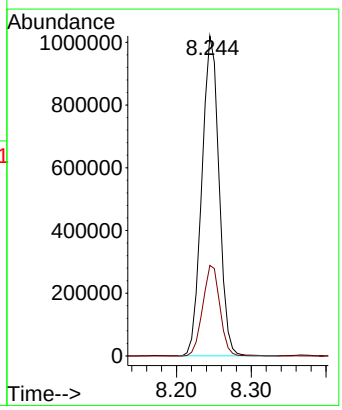


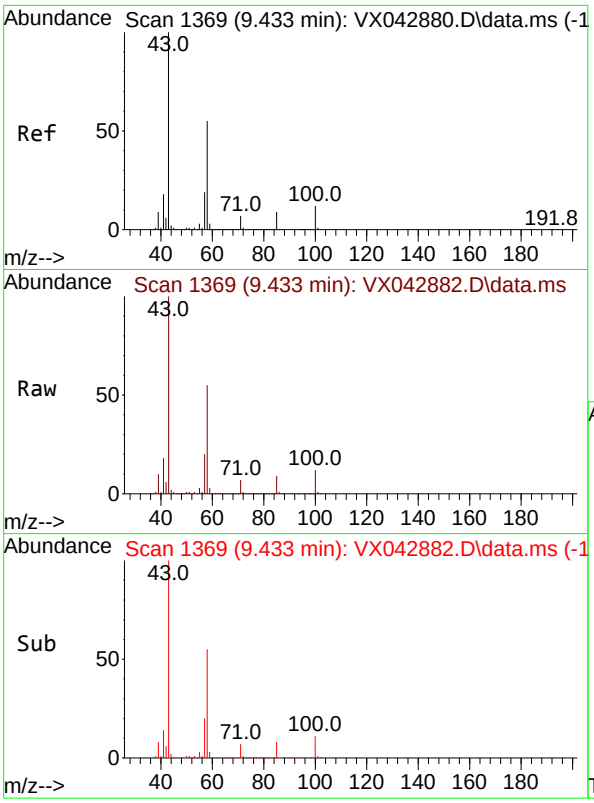


#58
2-Chloroethyl Vinyl ether
Concen: 754.909 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 63 Resp: 1625564

Ion	Ratio	Lower	Upper
63	100		
106	28.3	22.5	33.7





#59
2-Hexanone
Concen: 745.393 ug/l
RT: 9.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

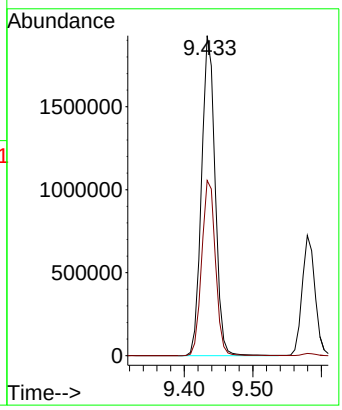
Tgt Ion: 43 Resp: 265582

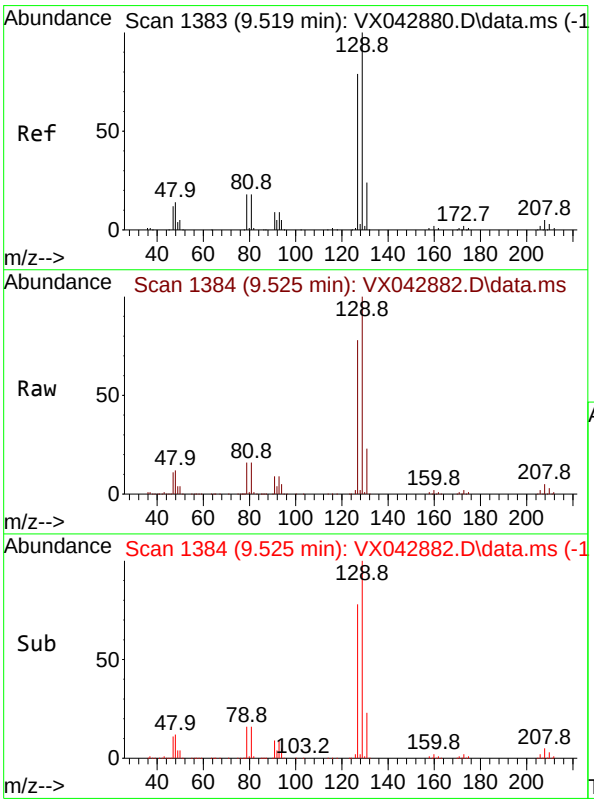
Ion	Ratio	Lower	Upper
43	100		
58	55.7	26.2	78.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

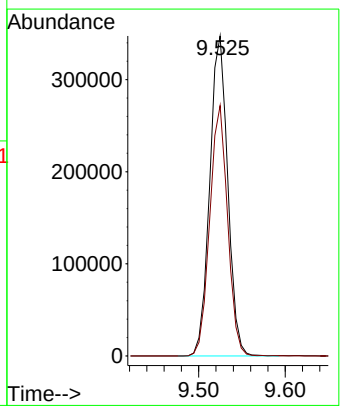


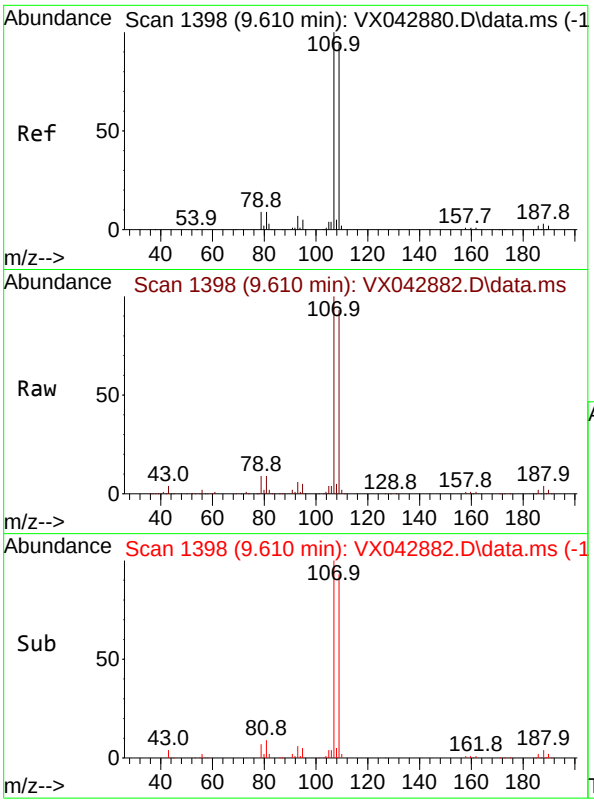


#60
Dibromochloromethane
Concen: 160.531 ug/l
RT: 9.525 min Scan# 1384
Delta R.T. 0.006 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion:129 Resp: 500690

Ion	Ratio	Lower	Upper
129	100		
127	77.8	38.8	116.4

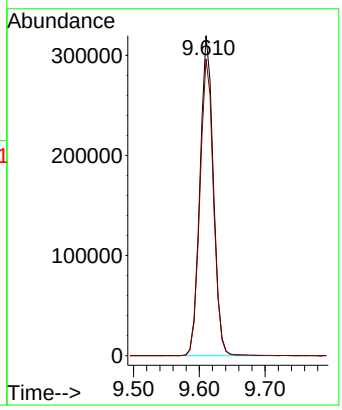




#61
1,2-Dibromoethane
Concen: 150.724 ug/l
RT: 9.610 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion:107 Resp: 45213

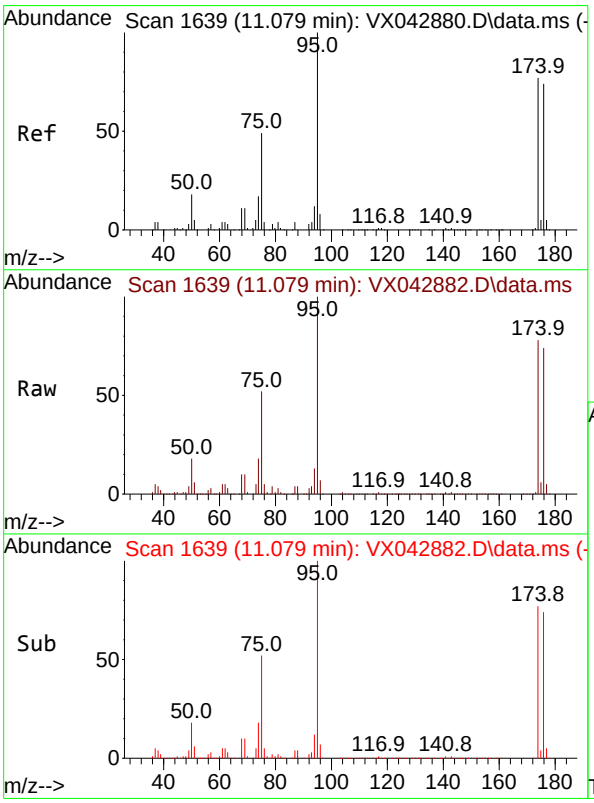
Ion	Ratio	Lower	Upper
107	100		
109	93.7	75.2	112.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

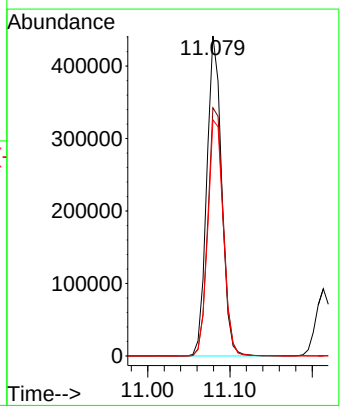
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

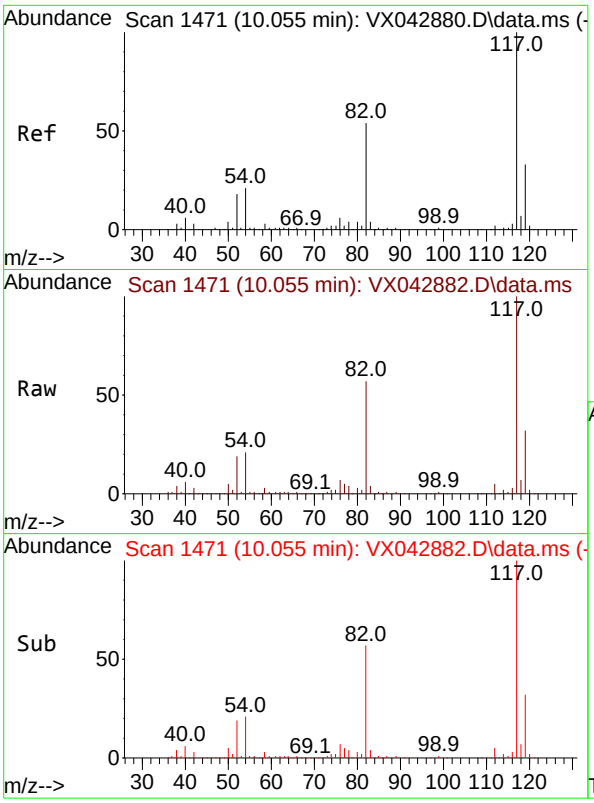


#62
4-Bromofluorobenzene
Concen: 158.776 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 95 Resp: 554230

Ion	Ratio	Lower	Upper
95	100		
174	81.0	0.0	135.6
176	77.2	0.0	131.0





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

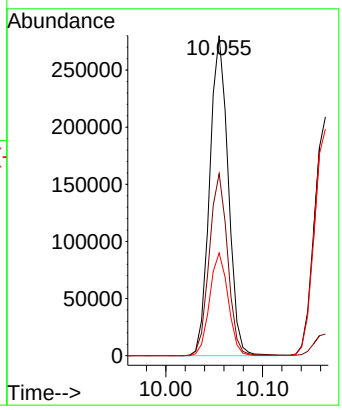
Tgt Ion:117 Resp: 37249

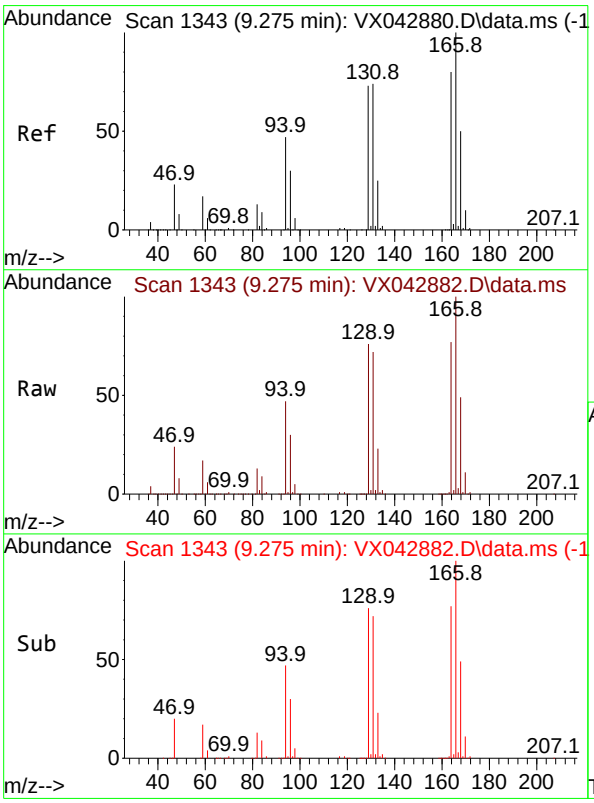
Ion	Ratio	Lower	Upper
117	100		
82	56.8	46.2	69.4
119	32.1	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

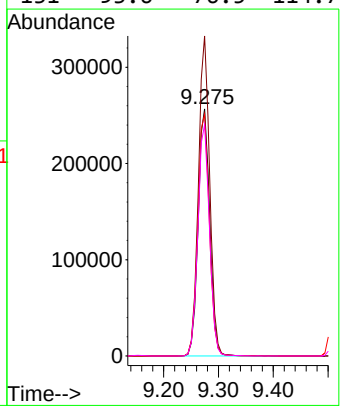


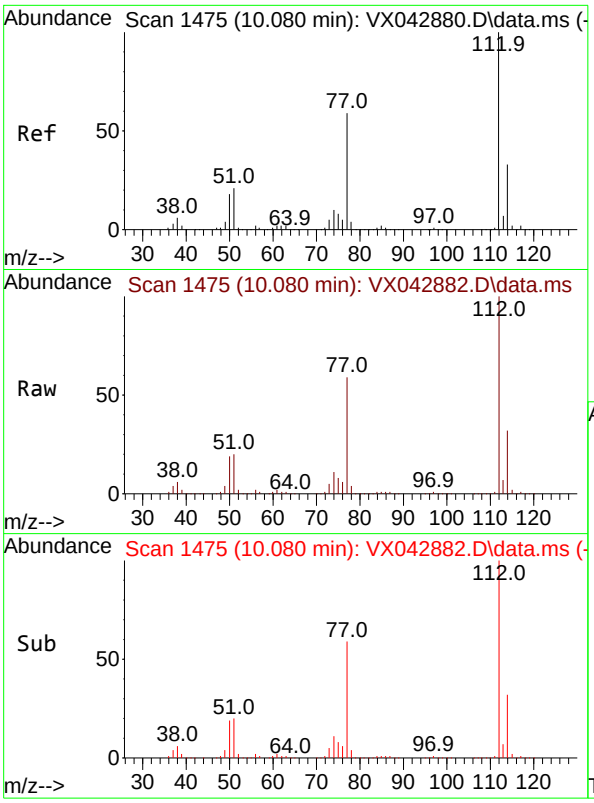


#64
Tetrachloroethene
Concen: 145.519 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion:164 Resp: 376890

Ion	Ratio	Lower	Upper
164	100		
166	129.5	102.7	154.1
129	97.9	80.4	120.6
131	93.6	76.5	114.7





#65
Chlorobenzene
Concen: 147.066 ug/l
RT: 10.080 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

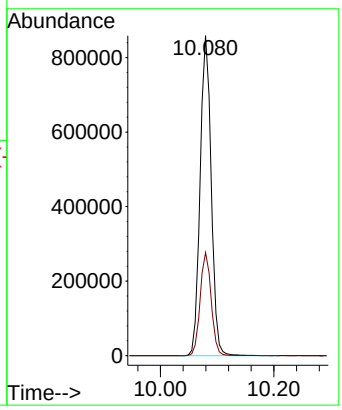
Tgt Ion:112 Resp: 116248

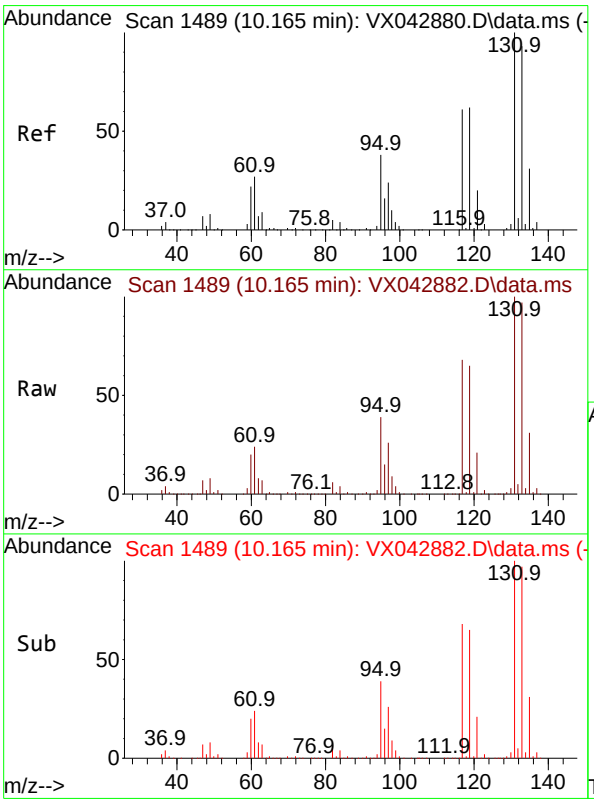
Ion	Ratio	Lower	Upper
112	100		
114	32.2	25.7	38.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

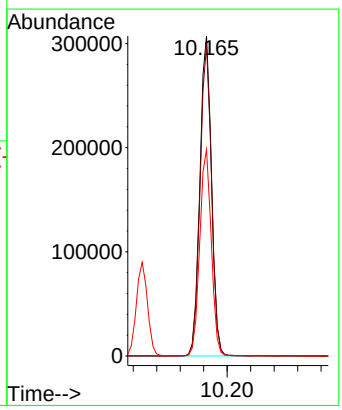


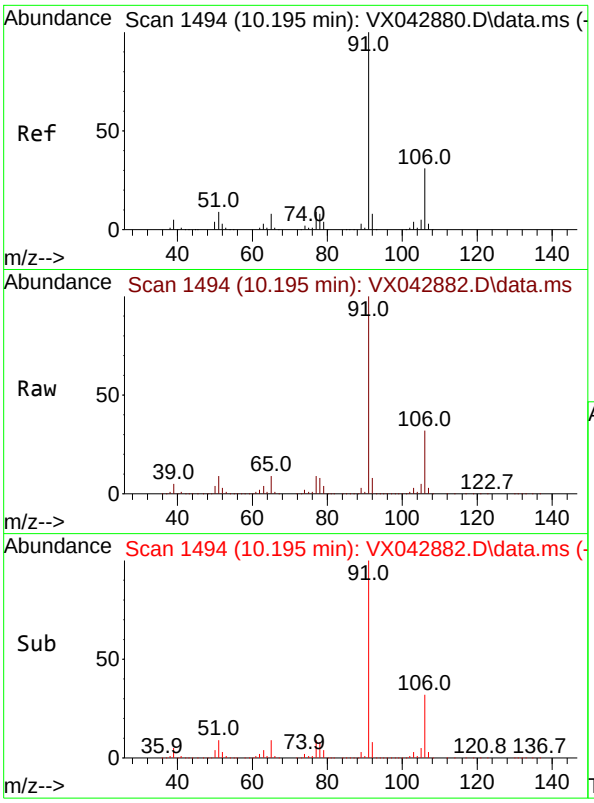


#66
1,1,1,2-Tetrachloroethane
Concen: 153.971 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion:131 Resp: 419659

Ion	Ratio	Lower	Upper
131	100		
133	95.8	47.1	141.4
119	64.3	32.2	96.6

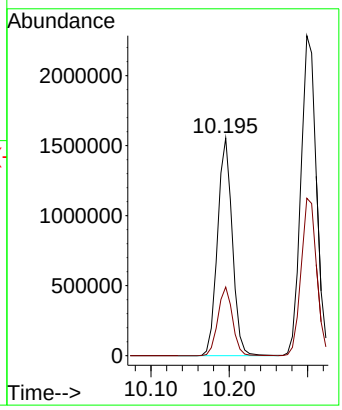




#67
Ethyl Benzene
Concen: 153.236 ug/l
RT: 10.195 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 91 Resp: 203741

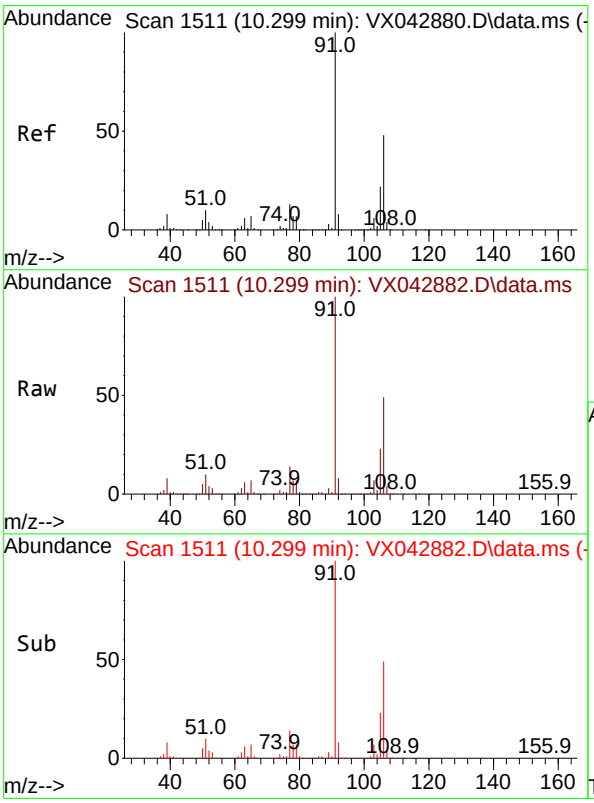
Ion	Ratio	Lower	Upper
91	100		
106	31.6	24.9	37.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

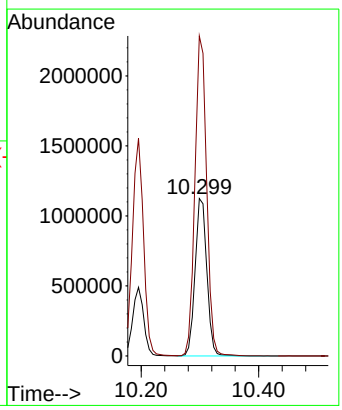
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

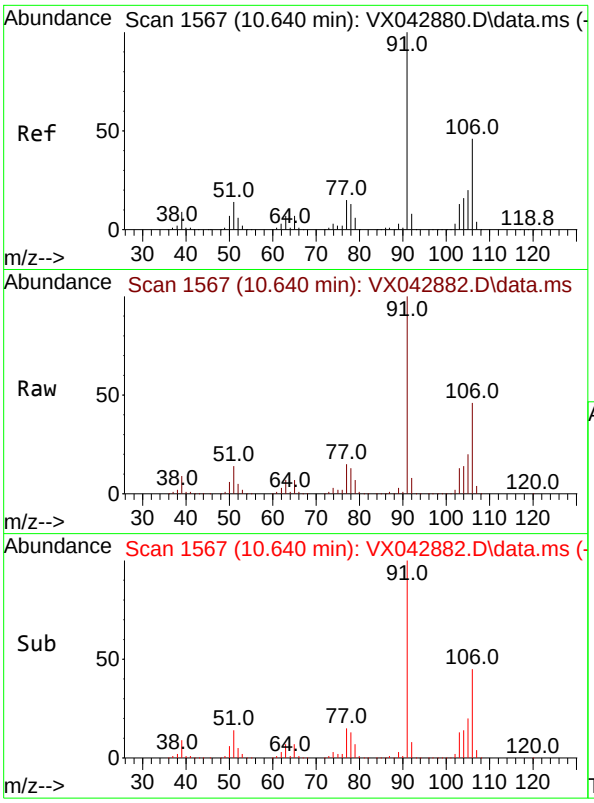


#68
m/p-Xylenes
Concen: 307.218 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion:106 Resp: 1559381

Ion	Ratio	Lower	Upper
106	100		
91	202.7	165.5	248.3





#69
o-Xylene
Concen: 150.693 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

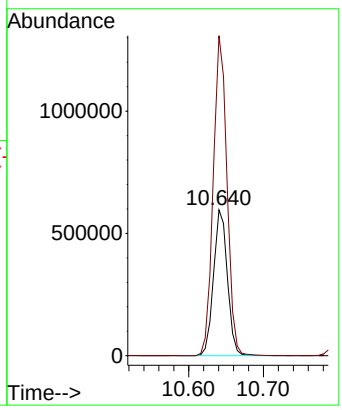
Tgt Ion:106 Resp: 76622

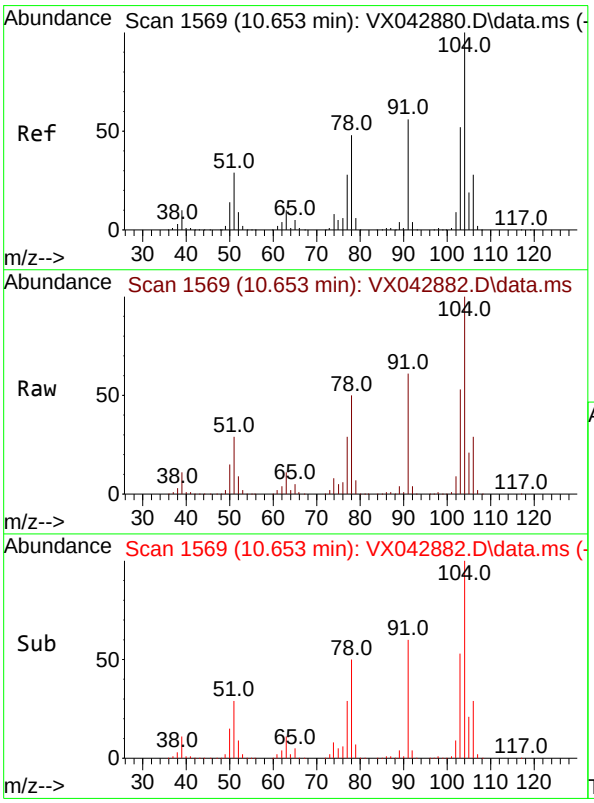
Ion	Ratio	Lower	Upper
106	100		
91	217.8	108.9	326.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

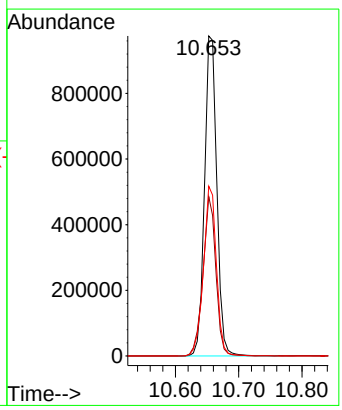


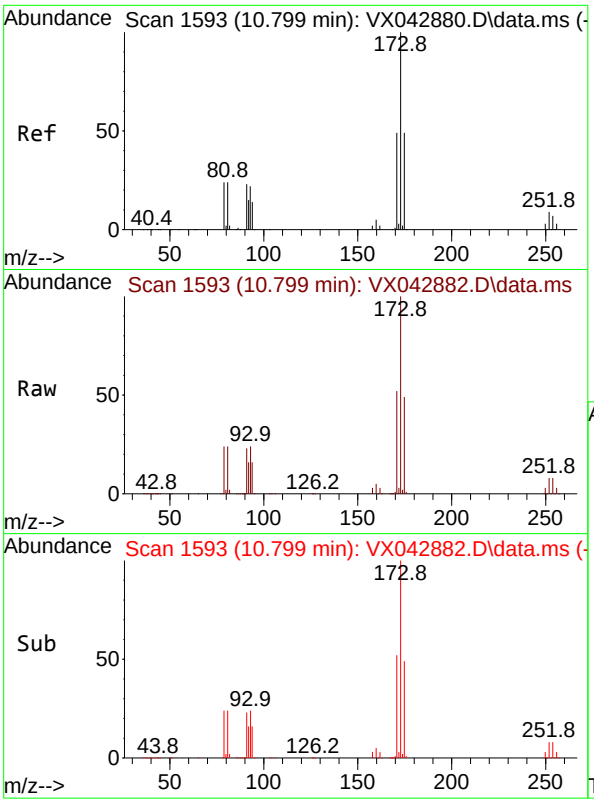


#70
Styrene
Concen: 161.190 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion:104 Resp: 1317965

Ion	Ratio	Lower	Upper
104	100		
78	52.1	43.6	65.4
103	56.1	43.6	65.4

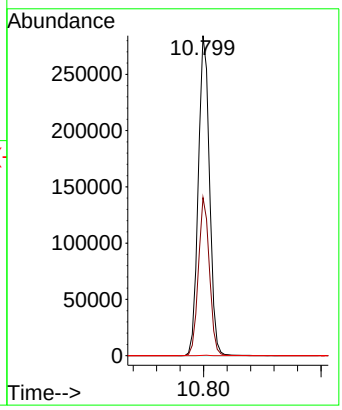




#71
Bromoform
Concen: 149.639 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion:173 Resp: 37774

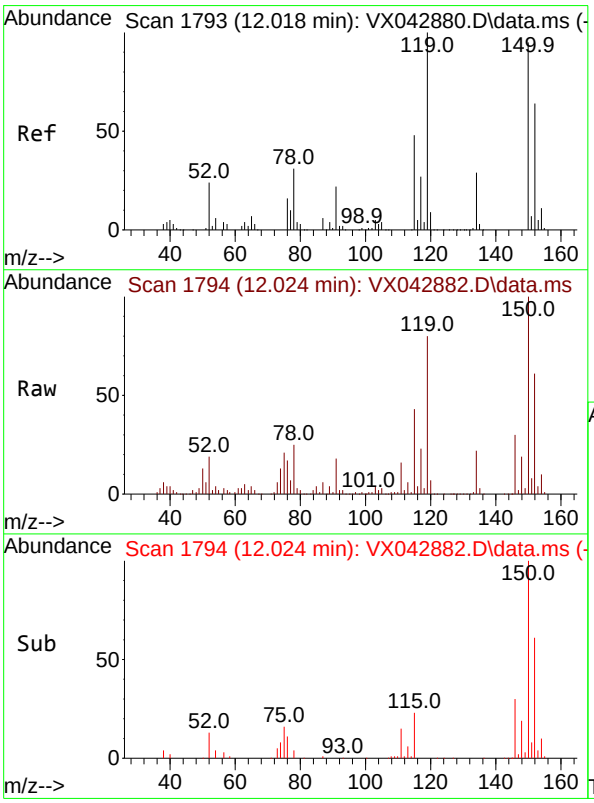
Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.1	72.4
254	0.1	0.0	0.0#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

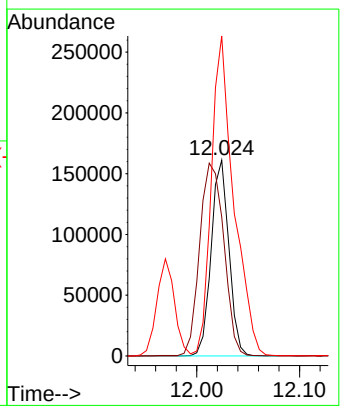
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

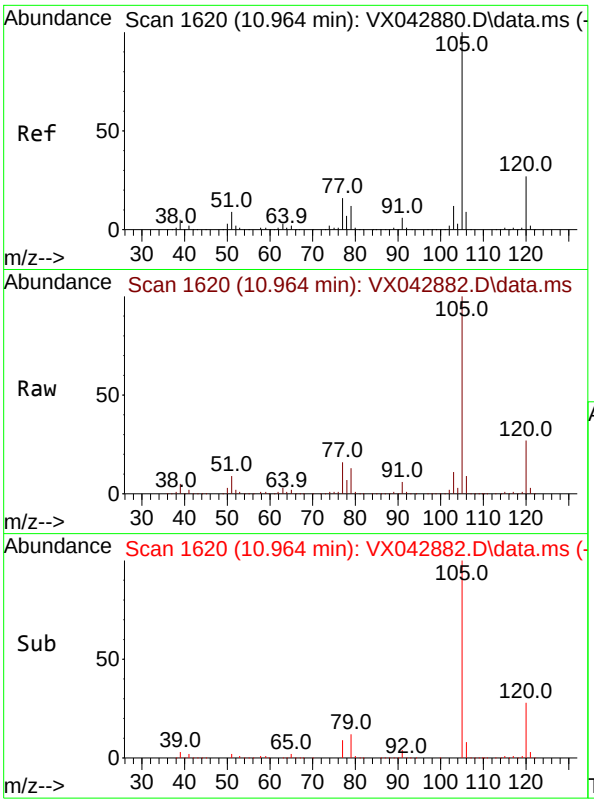


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion:152 Resp: 192473

Ion	Ratio	Lower	Upper
152	100		
115	135.1	43.3	129.9#
150	207.3	0.0	345.0

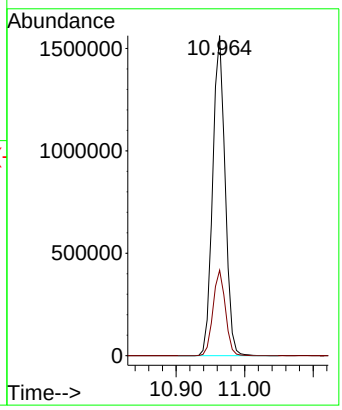




#73
Isopropylbenzene
Concen: 141.234 ug/l
RT: 10.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion:105 Resp: 196535

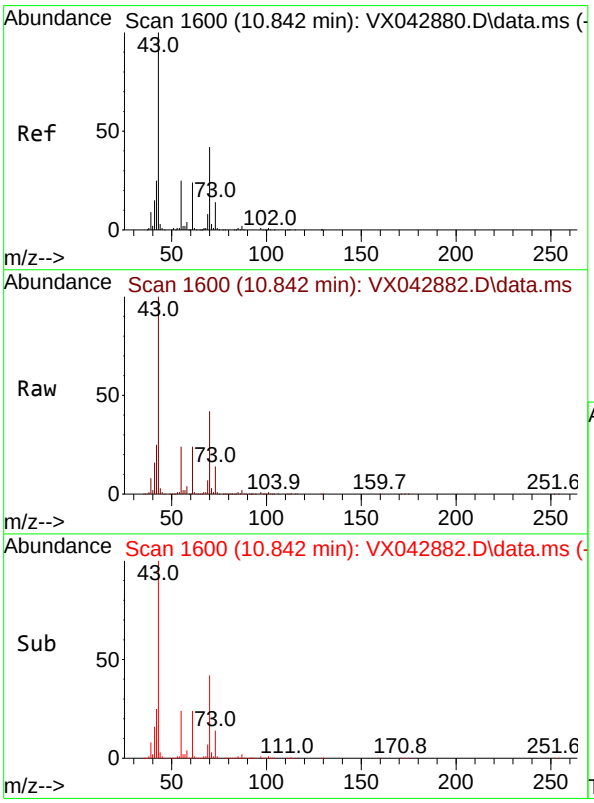
Ion	Ratio	Lower	Upper
105	100		
120	26.5	12.9	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

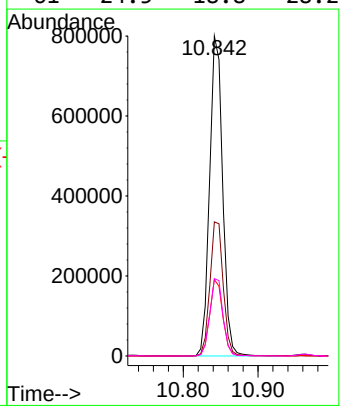
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

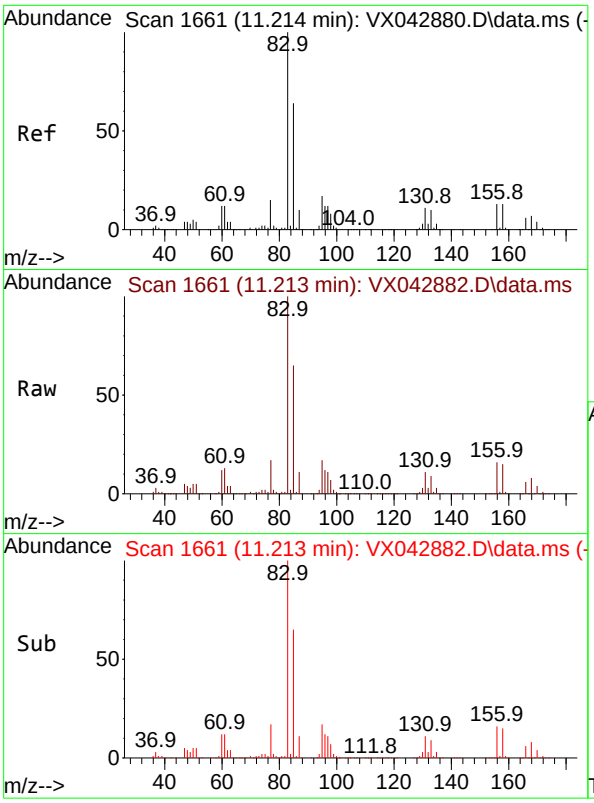


#74
N-amyl acetate
Concen: 154.856 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 43 Resp: 969611

Ion	Ratio	Lower	Upper
43	100		
70	42.7	32.9	49.3
55	23.8	19.3	28.9
61	24.5	18.8	28.2

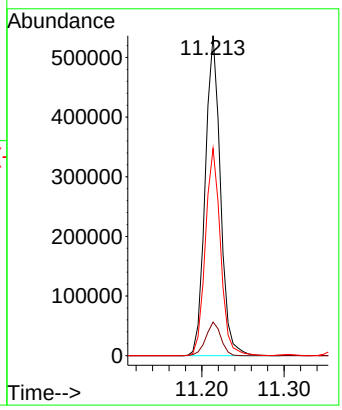




#75
1,1,2,2-Tetrachloroethane
Concen: 134.916 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 83 Resp: 68777

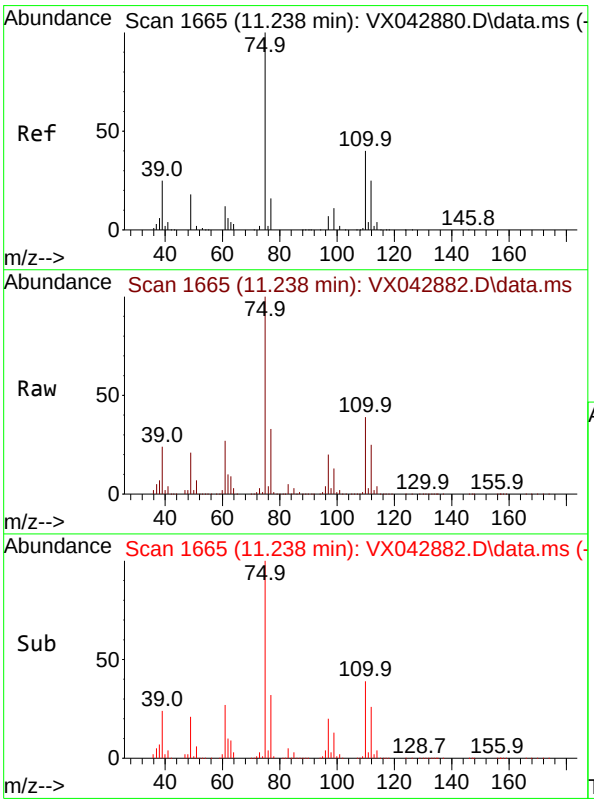
Ion	Ratio	Lower	Upper
83	100		
131	10.5	5.3	15.8
85	64.7	32.0	96.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

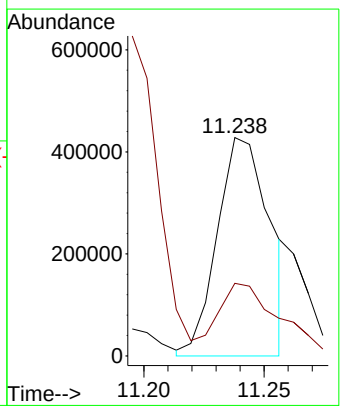
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

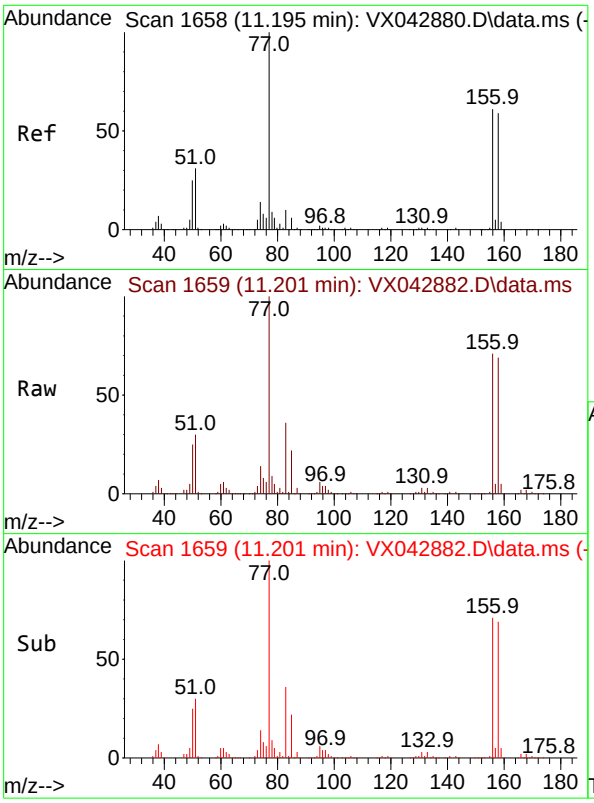


#76
1,2,3-Trichloropropane
Concen: 153.397 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 75 Resp: 647643

Ion	Ratio	Lower	Upper
75	100		
77	39.5	19.1	57.5





#77
Bromobenzene
Concen: 142.474 ug/l
RT: 11.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

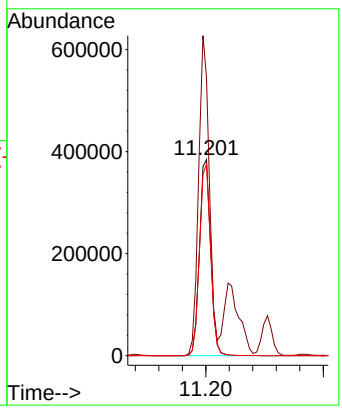
Tgt Ion:156 Resp: 50433

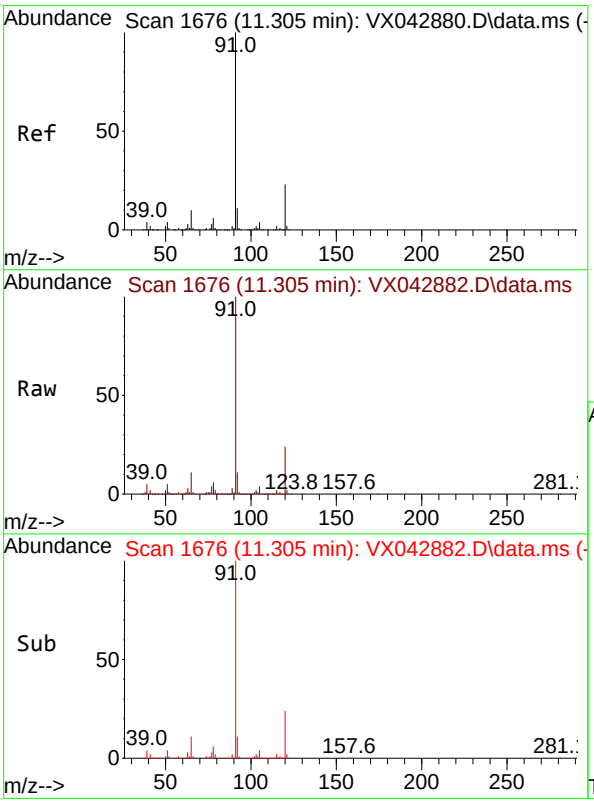
Ion	Ratio	Lower	Upper
156	100		
77	156.8	88.4	265.3
158	97.8	48.0	144.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

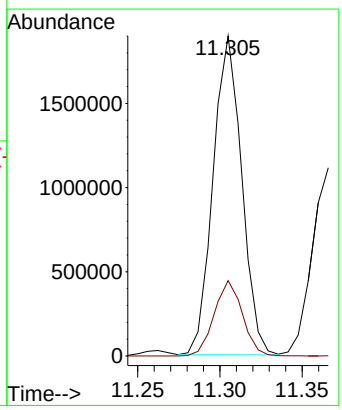


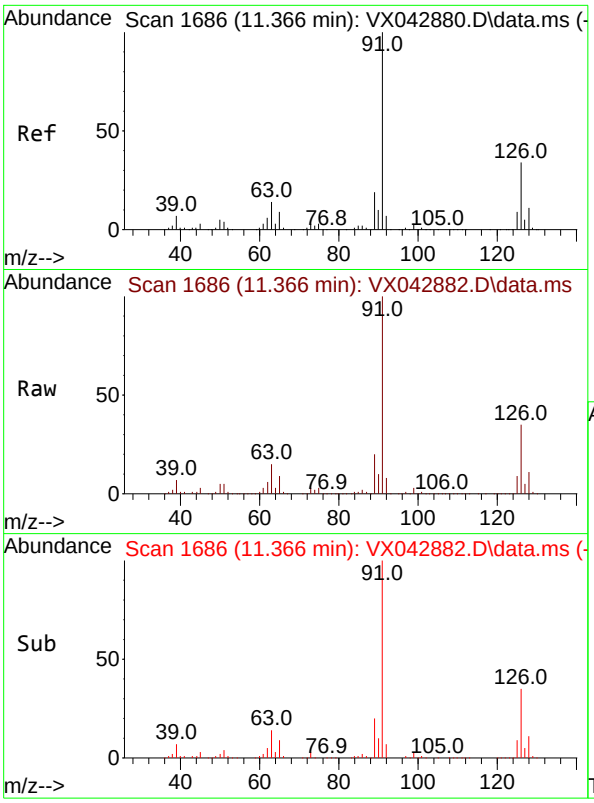


#78
n-propylbenzene
Concen: 148.279 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 91 Resp: 2291999

Ion	Ratio	Lower	Upper
91	100		
120	23.3	11.5	34.4





#79
2-Chlorotoluene
Concen: 139.945 ug/l
RT: 11.366 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

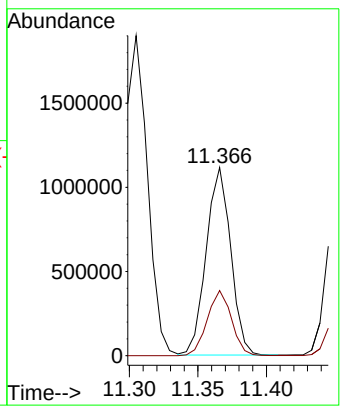
Tgt Ion: 91 Resp: 138647

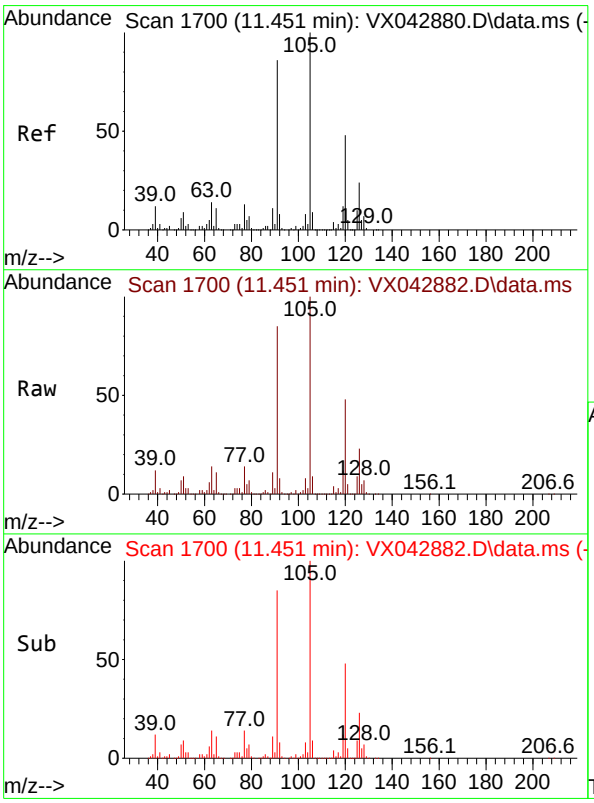
Ion	Ratio	Lower	Upper
91	100		
126	34.4	16.3	48.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

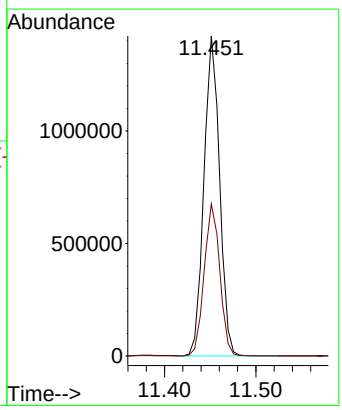


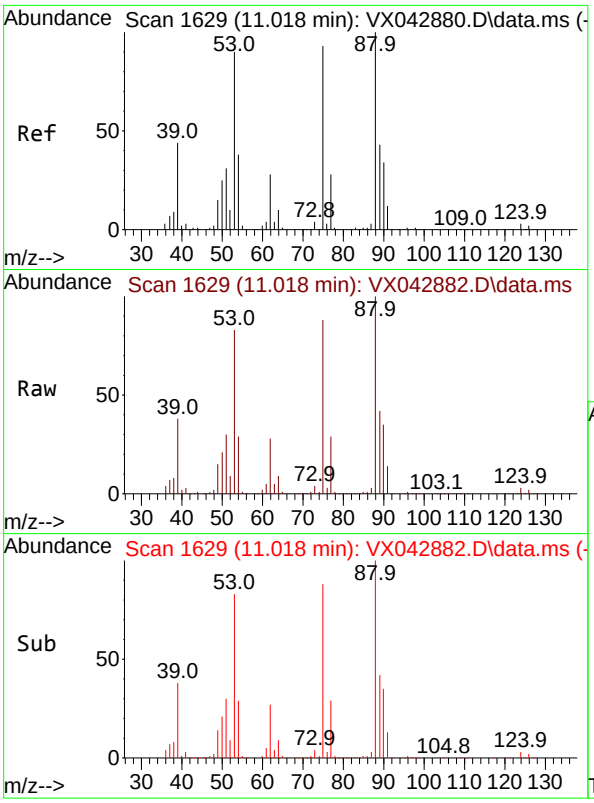


#80
1,3,5-Trimethylbenzene
Concen: 146.513 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion:105 Resp: 1688172

Ion	Ratio	Lower	Upper
105	100		
120	47.5	24.1	72.3





#81
trans-1,4-Dichloro-2-butene
Concen: 168.527 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

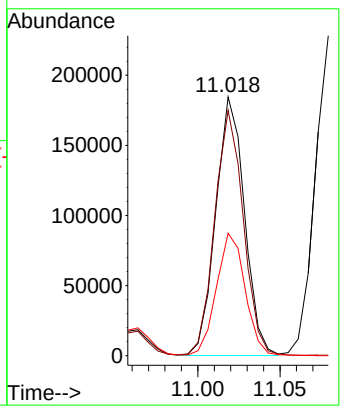
Tgt Ion: 75 Resp: 22435

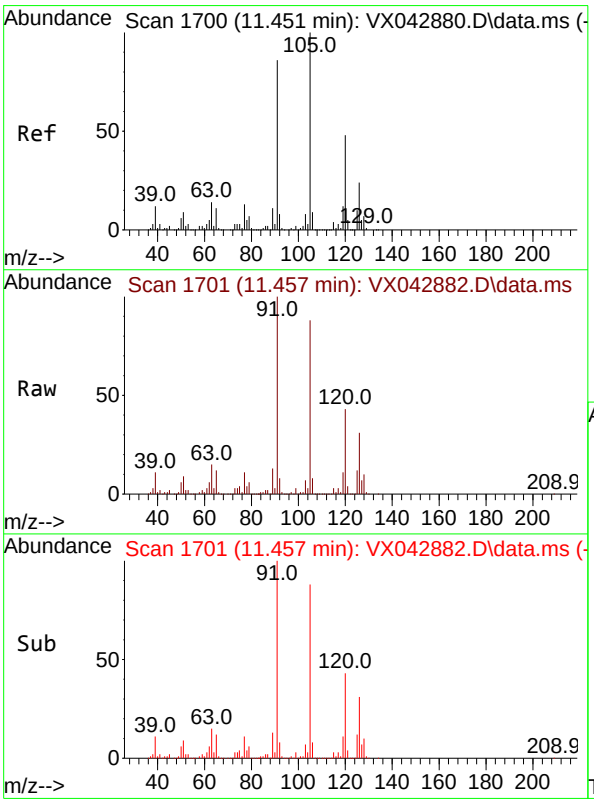
Ion	Ratio	Lower	Upper
75	100		
53	94.0	90.5	135.7
89	47.5	36.9	55.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

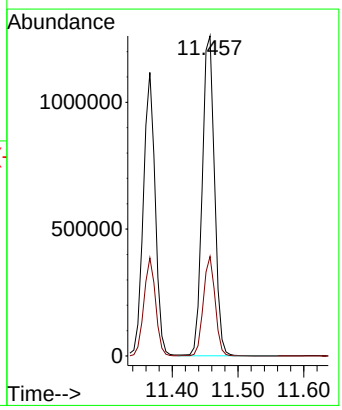


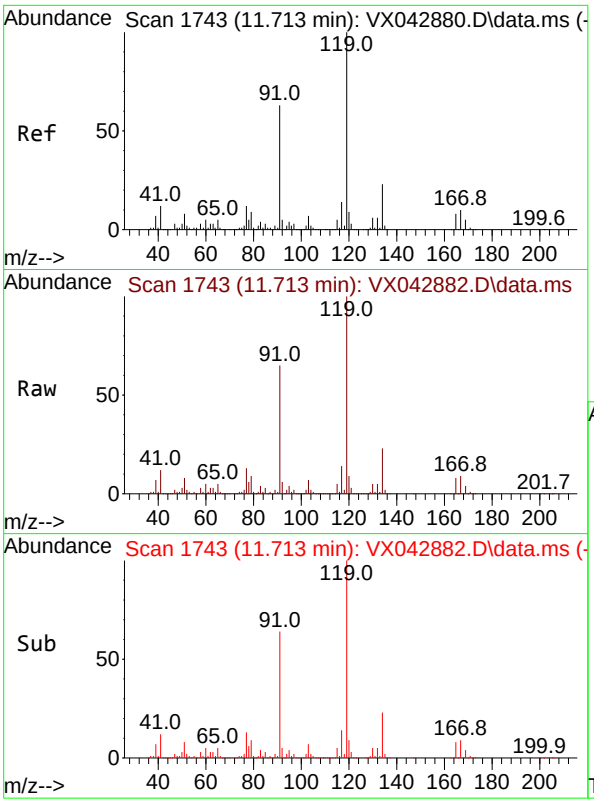


#82
4-Chlorotoluene
Concen: 146.990 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 91 Resp: 1636862

Ion	Ratio	Lower	Upper
91	100		
126	29.8	14.2	42.6





#83
tert-Butylbenzene
Concen: 148.139 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

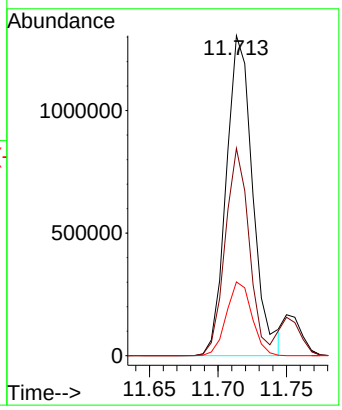
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

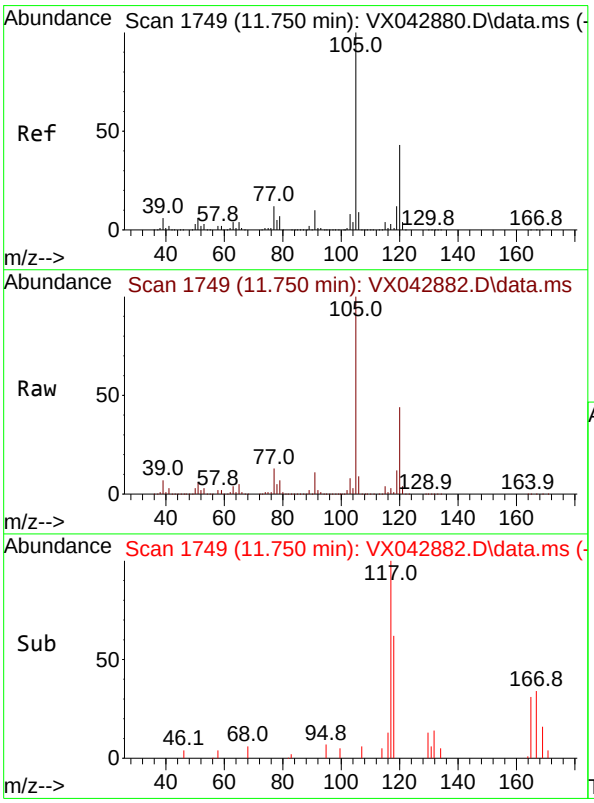
Tgt Ion:119 Resp: 175415

Ion	Ratio	Lower	Upper
119	100		
91	58.7	31.2	93.6
134	22.1	11.7	35.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

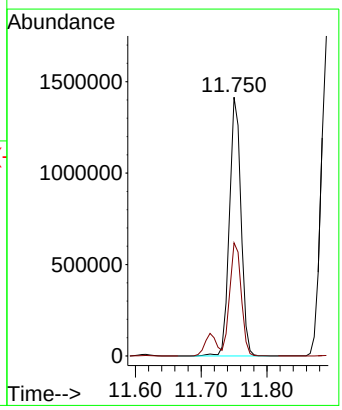


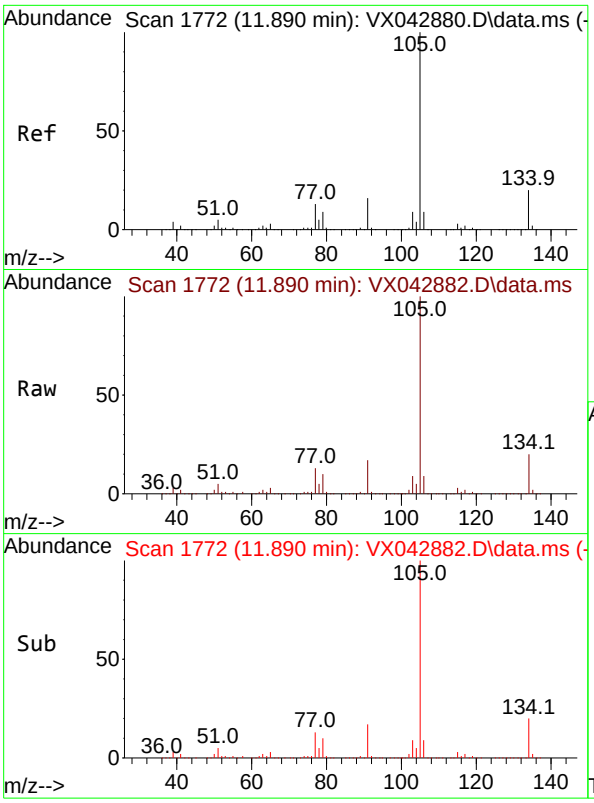


#84
1,2,4-Trimethylbenzene
Concen: 149.050 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion:105 Resp: 1728957

Ion	Ratio	Lower	Upper
105	100		
120	43.6	21.2	63.6





#85
sec-Butylbenzene
Concen: 150.238 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

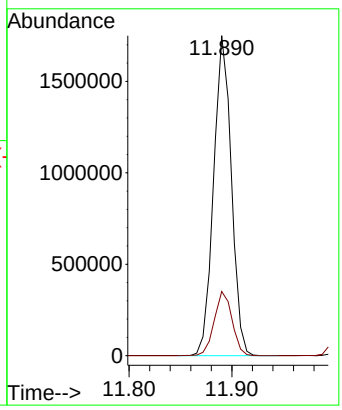
Tgt Ion:105 Resp: 209482

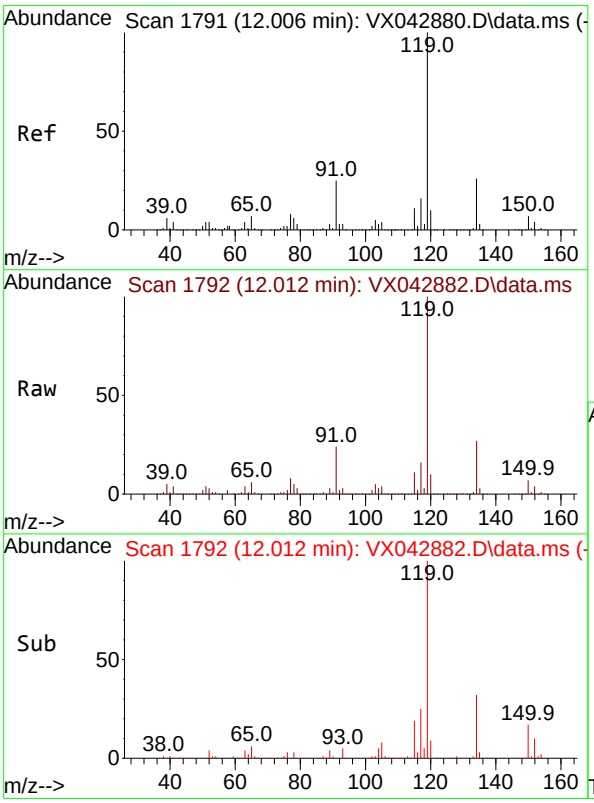
Ion	Ratio	Lower	Upper
105	100		
134	20.2	9.8	29.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

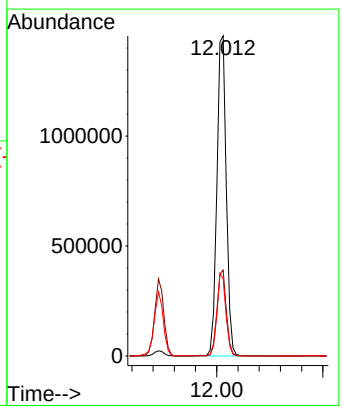


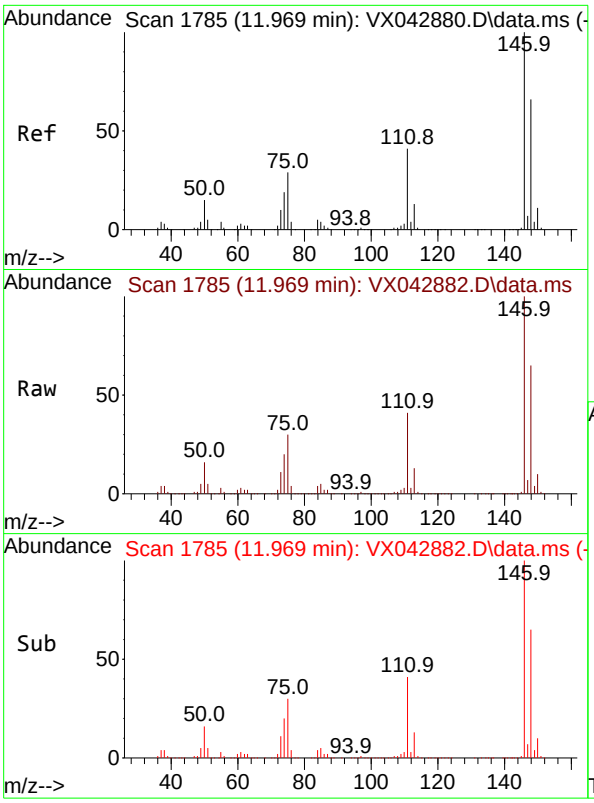


#86
p-Isopropyltoluene
Concen: 154.409 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion:119 Resp: 1788736

Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.8	38.3
91	25.0	13.1	39.3

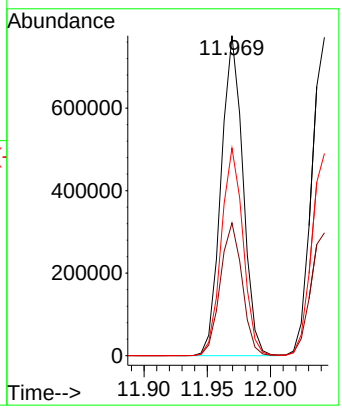




#87
1,3-Dichlorobenzene
Concen: 145.276 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion:146 Resp: 93067

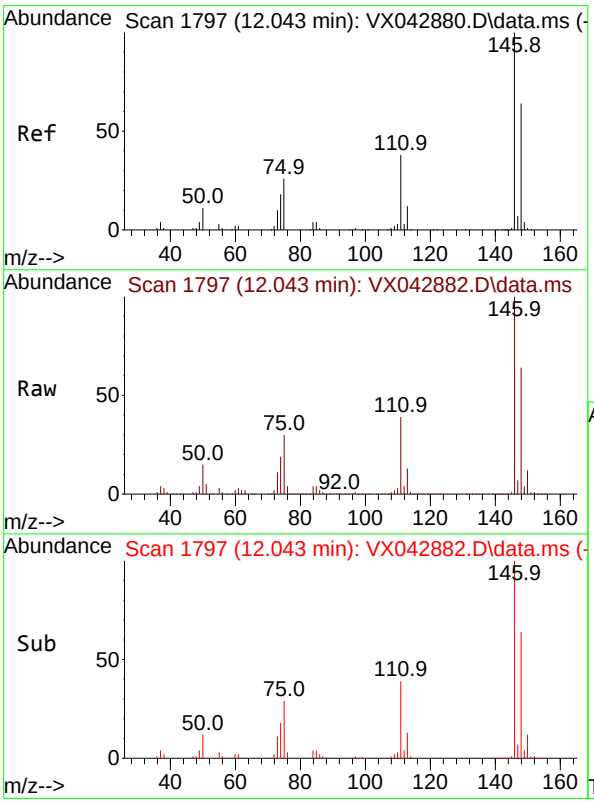
Ion	Ratio	Lower	Upper
146	100		
111	41.6	22.1	66.1
148	64.7	31.8	95.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

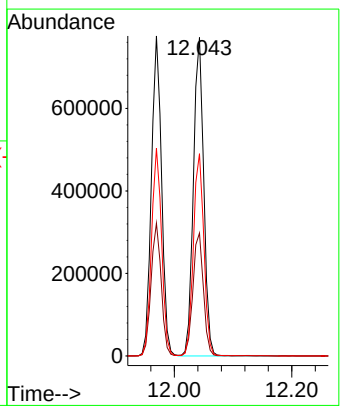
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

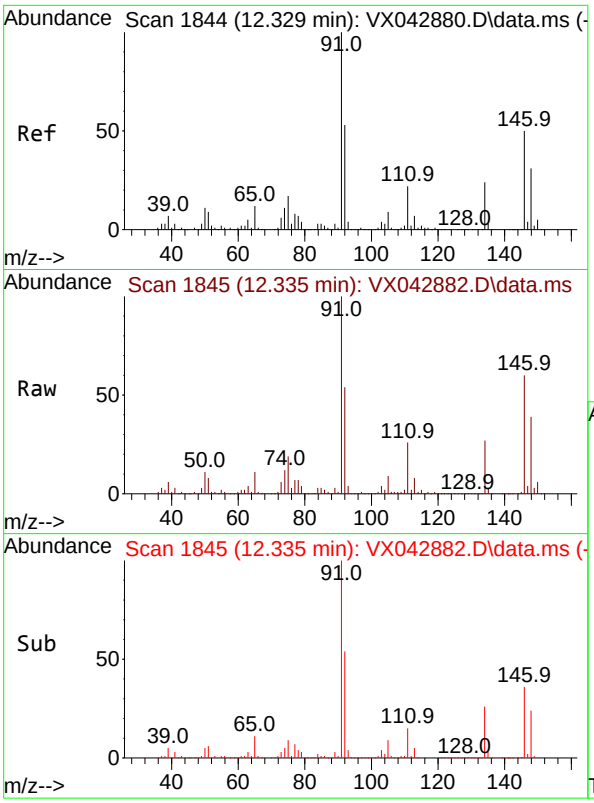


#88
1,4-Dichlorobenzene
Concen: 143.289 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion:146 Resp: 940918

Ion	Ratio	Lower	Upper
146	100		
111	39.3	21.3	63.7
148	64.3	31.8	95.4





#89
n-Butylbenzene
Concen: 162.435 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

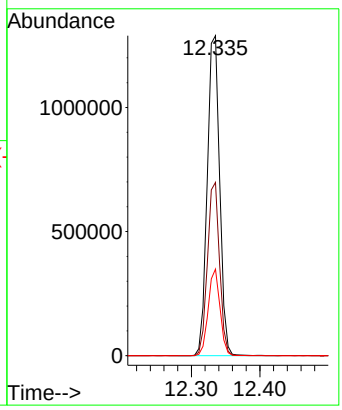
Tgt Ion: 91 Resp: 162335

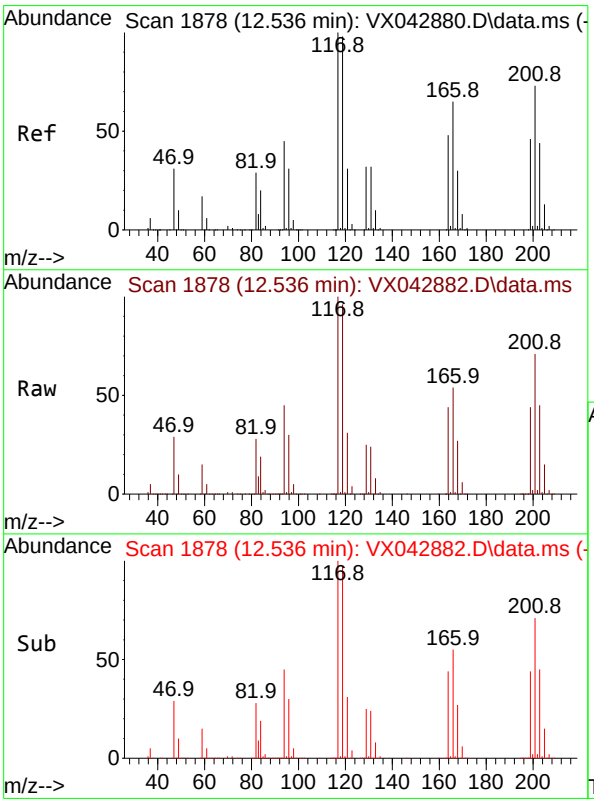
Ion	Ratio	Lower	Upper
91	100		
92	52.9	27.4	82.0
134	25.7	12.6	37.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

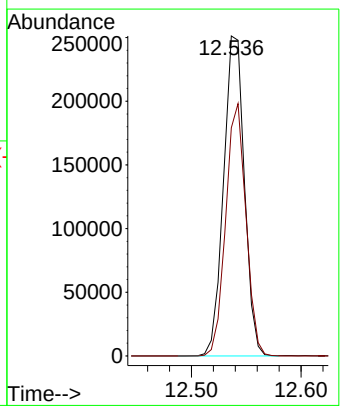


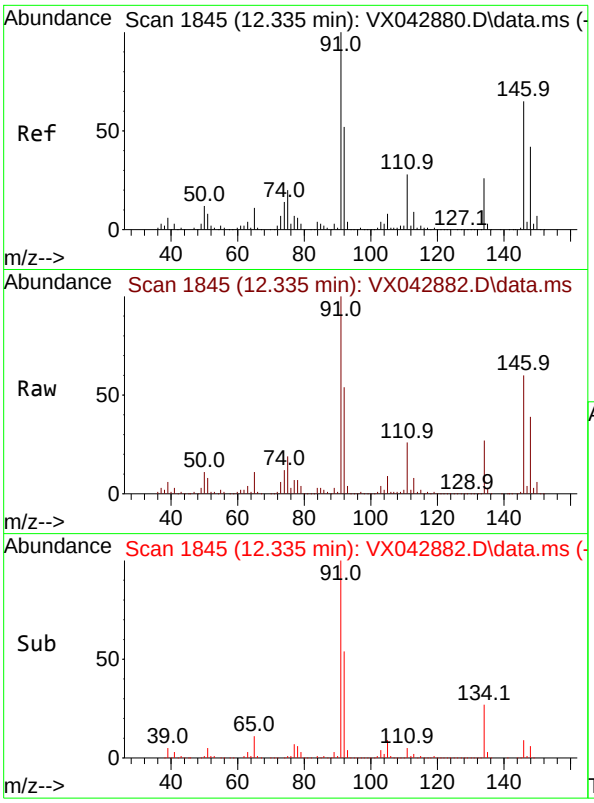


#90
Hexachloroethane
Concen: 156.725 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion:117 Resp: 332111

Ion	Ratio	Lower	Upper
117	100		
201	76.4	32.9	98.6

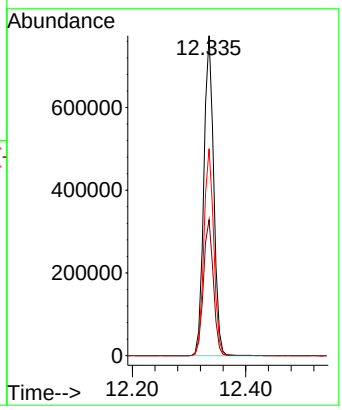




#91
1,2-Dichlorobenzene
Concen: 145.700 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion:146 Resp: 93467

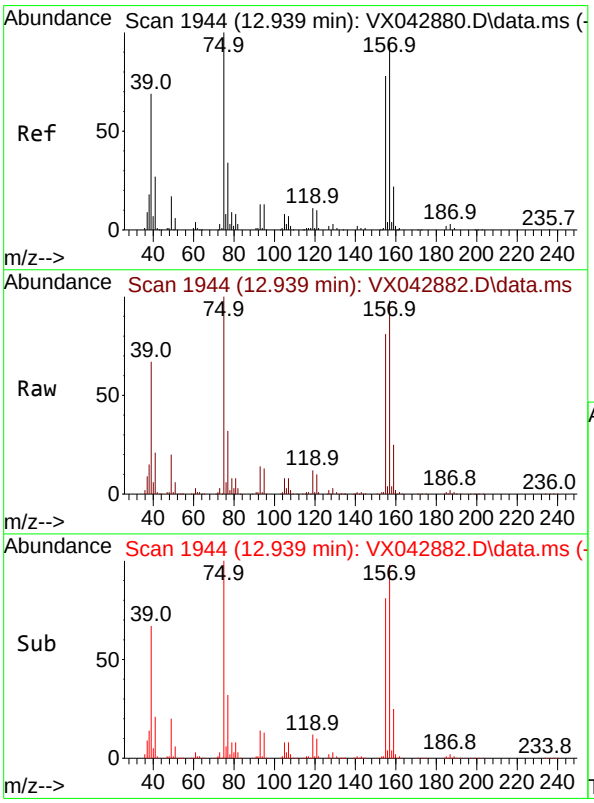
Ion	Ratio	Lower	Upper
146	100		
111	43.0	22.4	67.0
148	64.6	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

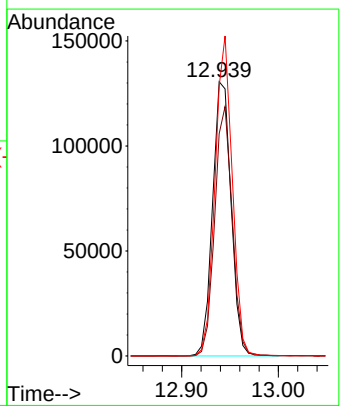
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

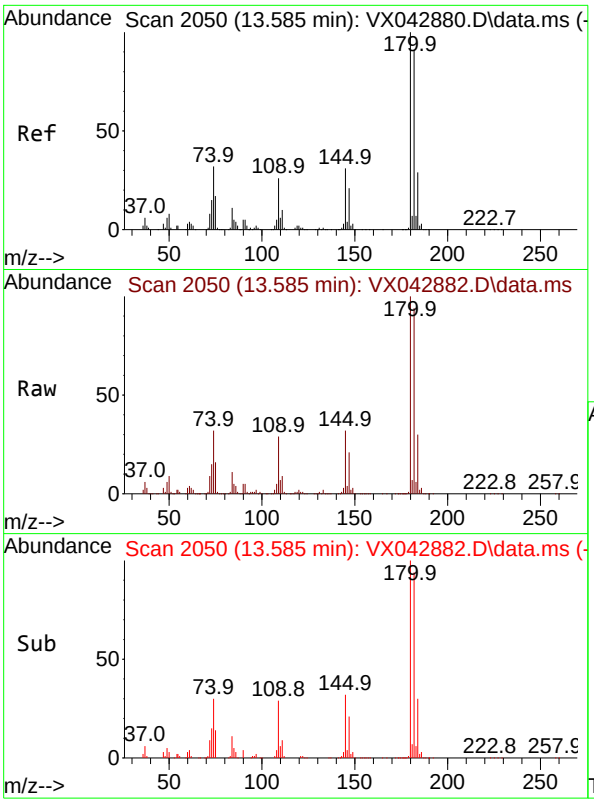


#92
1,2-Dibromo-3-Chloropropane
Concen: 154.944 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion: 75 Resp: 173558

Ion	Ratio	Lower	Upper
75	100		
155	86.4	36.1	108.5
157	108.9	44.9	134.7





#93
1,2,4-Trichlorobenzene
Concen: 157.807 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

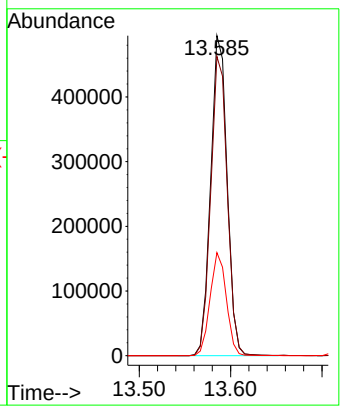
Tgt Ion:180 Resp: 61750

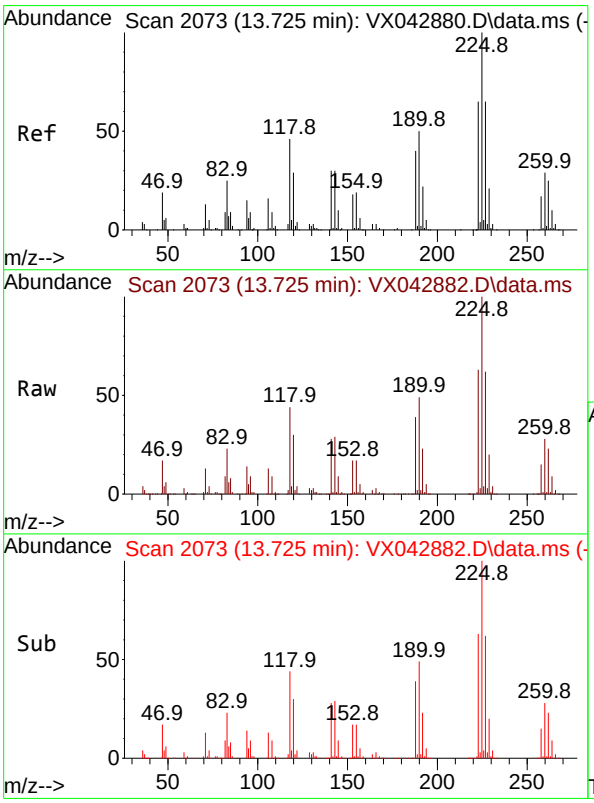
Ion	Ratio	Lower	Upper
180	100		
182	94.2	48.3	144.8
145	31.9	18.0	54.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

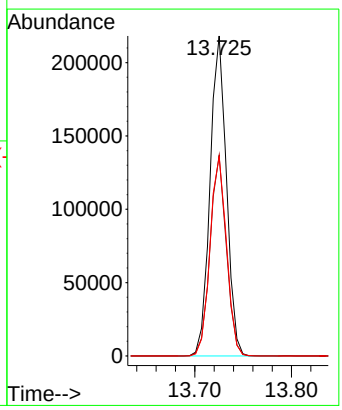


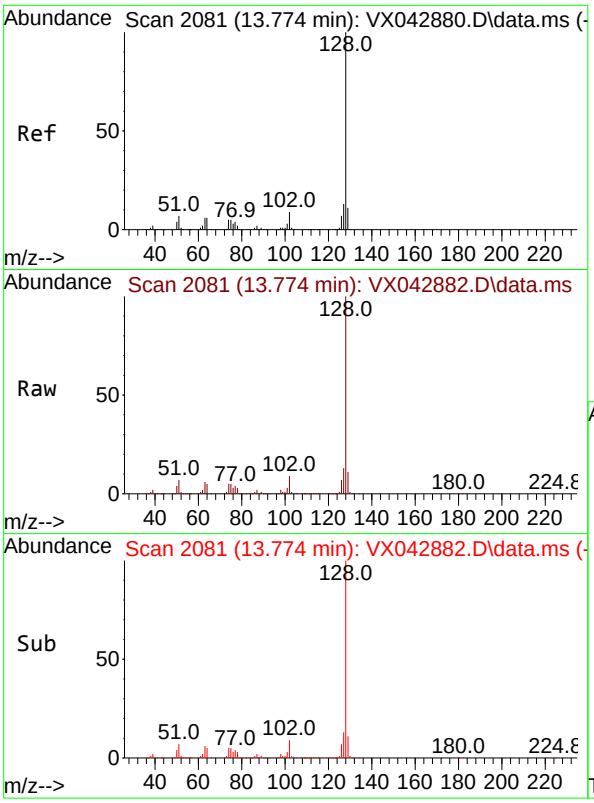


#94
Hexachlorobutadiene
Concen: 154.336 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion:225 Resp: 256131

Ion	Ratio	Lower	Upper
225	100		
223	62.2	31.1	93.2
227	63.2	32.5	97.5

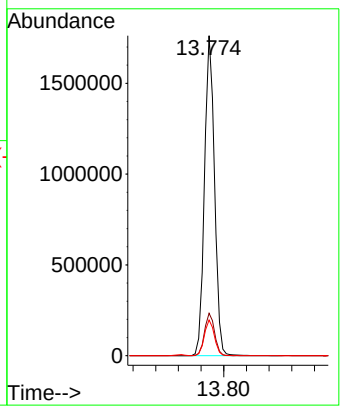




#95
Naphthalene
Concen: 159.889 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion:128 Resp: 216500

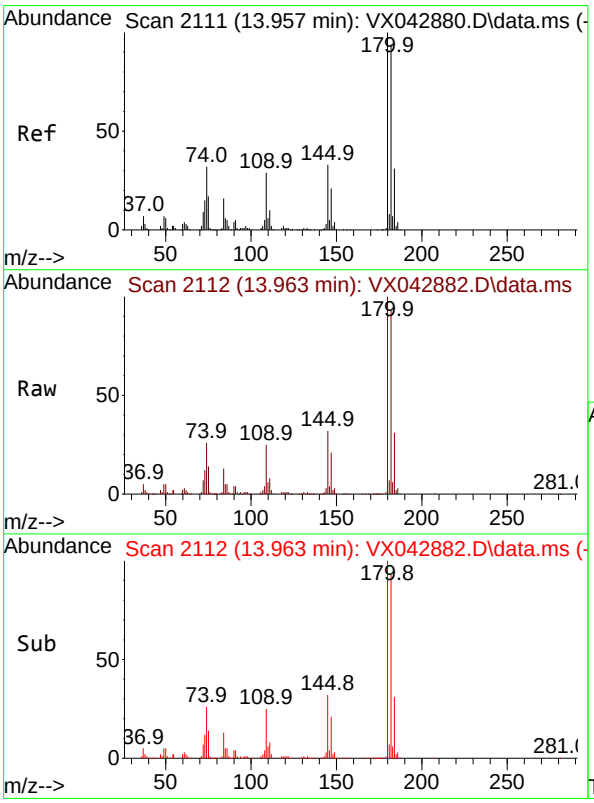
Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.3	15.5
129	11.2	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

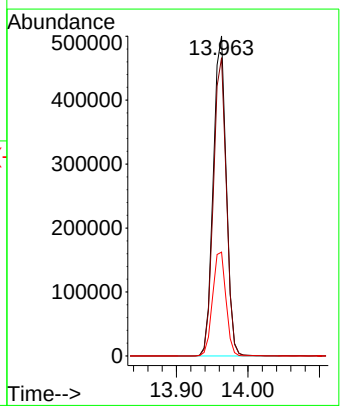
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024



#96
1,2,3-Trichlorobenzene
Concen: 160.157 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX042882.D
Acq: 06 Aug 2024 20:15

Tgt Ion:180 Resp: 630839

Ion	Ratio	Lower	Upper
180	100		
182	93.4	46.9	140.6
145	33.5	17.8	53.5



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042884.D
Acq On : 06 Aug 2024 21:02
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

Quant Time: Aug 07 03:00:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.555	168	253992	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.763	114	433504	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.055	117	375080	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	184018	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	5.958	65	177922	51.027	ug/l		0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 102.060%				
35) Dibromofluoromethane	5.385	113	146373	51.641	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.280%				
50) Toluene-d8	8.646	98	504830	50.170	ug/l		0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 100.340%				
62) 4-Bromofluorobenzene	11.079	95	182322	50.422	ug/l		0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 100.840%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.166	85	140658	51.378	ug/l		97
3) Chloromethane	1.300	50	143378	48.066	ug/l		97
4) Vinyl Chloride	1.373	62	139983	49.460	ug/l		99
5) Bromomethane	1.599	94	80786	47.164	ug/l		99
6) Chloroethane	1.666	64	74204	46.022	ug/l		98
7) Trichlorofluoromethane	1.873	101	228213	51.849	ug/l		99
8) Diethyl Ether	2.135	74	76640	47.339	ug/l		91
9) 1,1,2-Trichlorotrifluo...	2.318	101	133138	48.111	ug/l		95
10) Methyl Iodide	2.440	142	148705	51.968	ug/l		93
11) Tert butyl alcohol	2.995	59	188218	271.385	ug/l	#	93
12) 1,1-Dichloroethene	2.306	96	132169	47.211	ug/l		88
13) Acrolein	2.239	56	161916	236.849	ug/l		100
14) Allyl chloride	2.660	41	200579	47.417	ug/l		94
15) Acrylonitrile	3.074	53	424834	239.996	ug/l		99
16) Acetone	2.391	43	347584	229.828	ug/l		91
17) Carbon Disulfide	2.501	76	331453	48.653	ug/l		99
18) Methyl Acetate	2.708	43	217426	45.336	ug/l		97
19) Methyl tert-butyl Ether	3.123	73	452650	48.038	ug/l		99
20) Methylene Chloride	2.782	84	151272	48.307	ug/l		92
21) trans-1,2-Dichloroethene	3.086	96	135896	48.249	ug/l		92
22) Diisopropyl ether	3.769	45	447579	48.164	ug/l		87
23) Vinyl Acetate	3.727	43	2646320	250.908	ug/l		97
24) 1,1-Dichloroethane	3.605	63	257016	48.089	ug/l		99
25) 2-Butanone	4.568	43	574116	241.727	ug/l		94
26) 2,2-Dichloropropane	4.470	77	151088	45.984	ug/l		95
27) cis-1,2-Dichloroethene	4.489	96	165941	49.679	ug/l		89
28) Bromochloromethane	4.897	49	87046	42.446	ug/l	#	83
29) Tetrahydrofuran	5.013	42	385654	240.296	ug/l		95
30) Chloroform	5.092	83	270798	48.400	ug/l		97
31) Cyclohexane	5.464	56	214512	49.168	ug/l		95
32) 1,1,1-Trichloroethane	5.379	97	240375	48.803	ug/l		98
36) 1,1-Dichloropropene	5.690	75	176751	45.993	ug/l		98
37) Ethyl Acetate	4.726	43	226469	47.100	ug/l		98
38) Carbon Tetrachloride	5.677	117	202813	46.752	ug/l		97
39) Methylcyclohexane	7.378	83	227321	49.760	ug/l		94
40) Benzene	6.037	78	572371	47.990	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042884.D
Acq On : 06 Aug 2024 21:02
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

Quant Time: Aug 07 03:00:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.928	41	121667	49.128	ug/l		93
42) 1,2-Dichloroethane	6.086	62	206136	47.516	ug/l		99
43) Isopropyl Acetate	6.348	43	348410	48.996	ug/l		97
44) Trichloroethene	7.122	130	139752	46.633	ug/l		97
45) 1,2-Dichloropropane	7.433	63	141331	46.713	ug/l		99
46) Dibromomethane	7.579	93	104909	47.212	ug/l		92
47) Bromodichloromethane	7.823	83	201299	48.765	ug/l		99
48) Methyl methacrylate	7.695	41	168358	49.376	ug/l		91
49) 1,4-Dioxane	7.665	88	77953	1029.881	ug/l	#	89
51) 4-Methyl-2-Pentanone	8.579	43	1150132	241.464	ug/l		97
52) Toluene	8.720	92	351310	48.559	ug/l		94
53) t-1,3-Dichloropropene	8.982	75	193765	50.779	ug/l		99
54) cis-1,3-Dichloropropene	8.366	75	208564	49.491	ug/l		91
55) 1,1,2-Trichloroethane	9.152	97	142569	48.475	ug/l		96
56) Ethyl methacrylate	9.116	69	235292	49.716	ug/l		94
57) 1,3-Dichloropropane	9.311	76	232694	48.297	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.244	63	553871	248.307	ug/l		100
59) 2-Hexanone	9.433	43	891190	241.460	ug/l		96
60) Dibromochloromethane	9.524	129	161337	49.936	ug/l		99
61) 1,2-Dibromoethane	9.610	107	151225	48.666	ug/l		100
64) Tetrachloroethene	9.274	164	127985	49.075	ug/l		96
65) Chlorobenzene	10.079	112	382816	48.096	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.164	131	138449	50.446	ug/l		99
67) Ethyl Benzene	10.195	91	674294	50.364	ug/l		99
68) m/p-Xylenes	10.299	106	517328	101.217	ug/l		98
69) o-Xylene	10.640	106	253851	49.580	ug/l		100
70) Styrene	10.658	104	428234	52.013	ug/l		97
71) Bromoform	10.798	173	116714	50.168	ug/l	#	99
73) Isopropylbenzene	10.963	105	658993	49.532	ug/l		98
74) N-amyl acetate	10.841	43	304347	50.840	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.213	83	226078	46.386	ug/l		99
76) 1,2,3-Trichloropropane	11.237	75	183912m	44.439	ug/l		
77) Bromobenzene	11.201	156	165270	48.834	ug/l		89
78) n-propylbenzene	11.304	91	750817	50.805	ug/l		100
79) 2-Chlorotoluene	11.365	91	458050	48.358	ug/l		96
80) 1,3,5-Trimethylbenzene	11.451	105	558080	50.660	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.018	75	65200	51.226	ug/l		89
82) 4-Chlorotoluene	11.457	91	524899	49.302	ug/l		97
83) tert-Butylbenzene	11.713	119	572349	50.556	ug/l		96
84) 1,2,4-Trimethylbenzene	11.749	105	560136	50.507	ug/l		97
85) sec-Butylbenzene	11.890	105	679354	50.961	ug/l		99
86) p-Isopropyltoluene	12.012	119	571128	51.567	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	294546	48.090	ug/l		98
88) 1,4-Dichlorobenzene	12.042	146	293515	46.754	ug/l		98
89) n-Butylbenzene	12.335	91	486738	50.942	ug/l		98
90) Hexachloroethane	12.542	117	99937	49.328	ug/l		85
91) 1,2-Dichlorobenzene	12.335	146	297994	48.586	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.944	75	52644	49.157	ug/l		84
93) 1,2,4-Trichlorobenzene	13.584	180	181193	48.433	ug/l		96
94) Hexachlorobutadiene	13.725	225	79508	50.110	ug/l		98
95) Naphthalene	13.773	128	660795	51.043	ug/l		100
96) 1,2,3-Trichlorobenzene	13.962	180	187959	49.911	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042884.D
Acq On : 06 Aug 2024 21:02
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

Quant Time: Aug 07 03:00:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 2024
Response via : Initial Calibration

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

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

ICAL Form

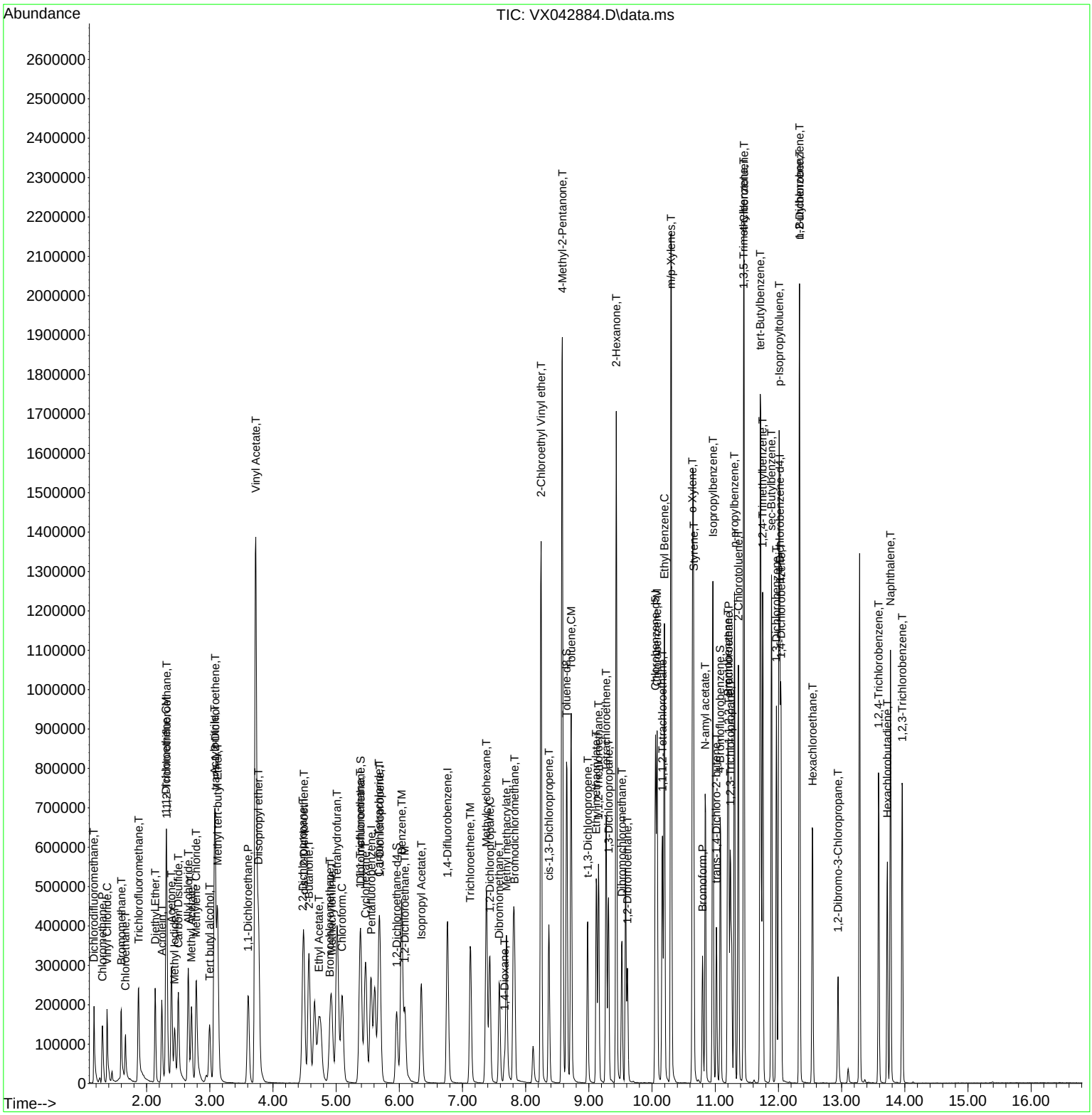
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042884.D
Acq On : 06 Aug 2024 21:02
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

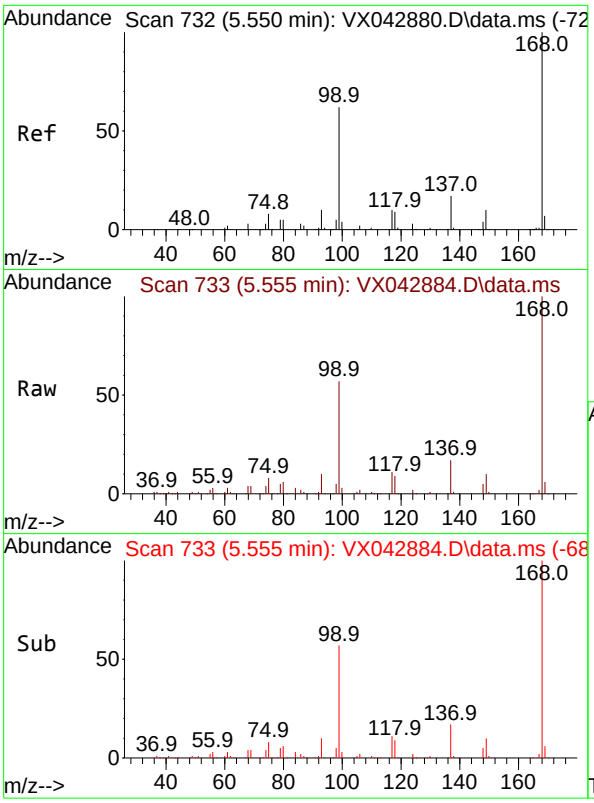
Quant Time: Aug 07 03:00:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

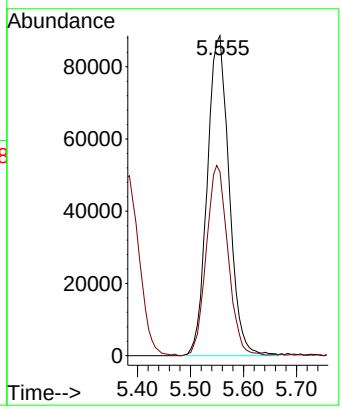




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.555 min Scan# 7
Delta R.T. 0.005 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion:168 Resp: 25399

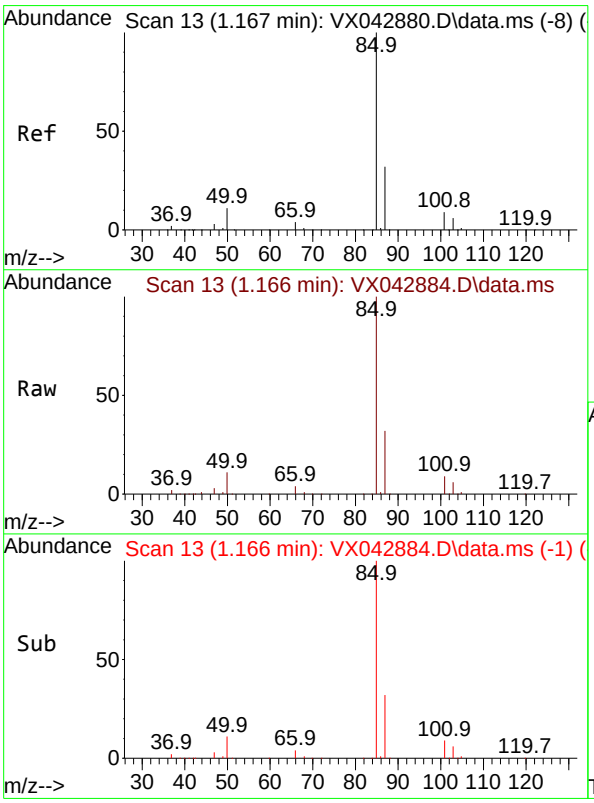
Ion	Ratio	Lower	Upper
168	100		
99	57.4	56.6	85.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

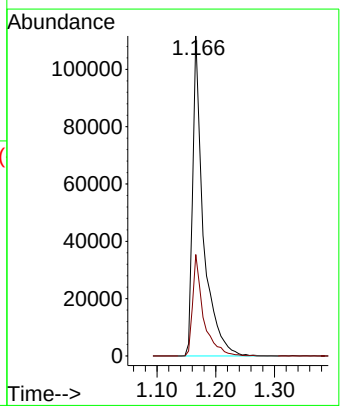
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

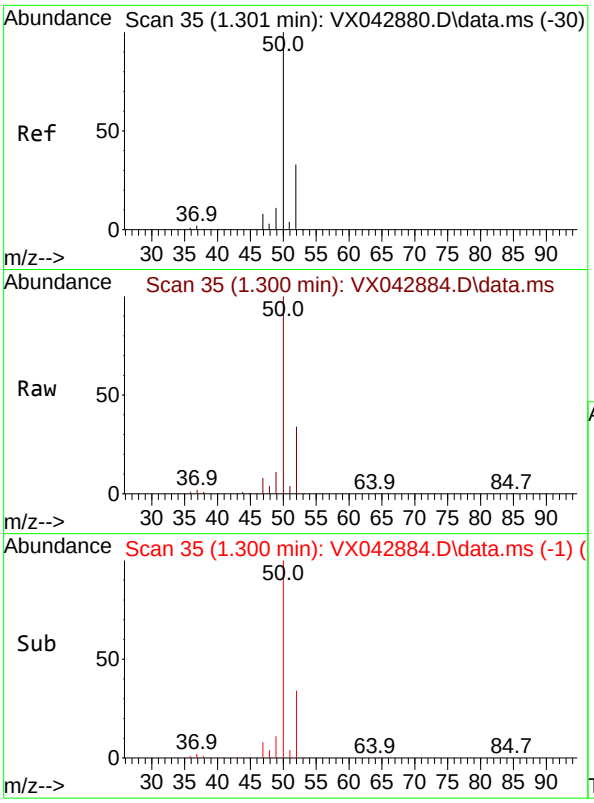


#2
Dichlorodifluoromethane
Concen: 51.378 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 85 Resp: 140658

Ion	Ratio	Lower	Upper
85	100		
87	31.7	16.7	50.1





#3
Chloromethane
Concen: 48.066 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

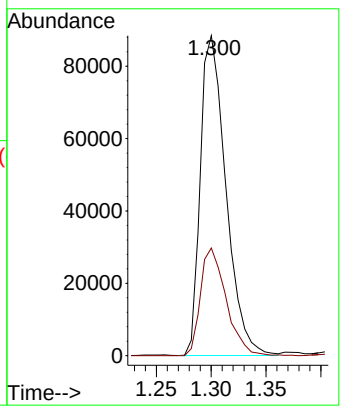
Tgt Ion: 50 Resp: 14337

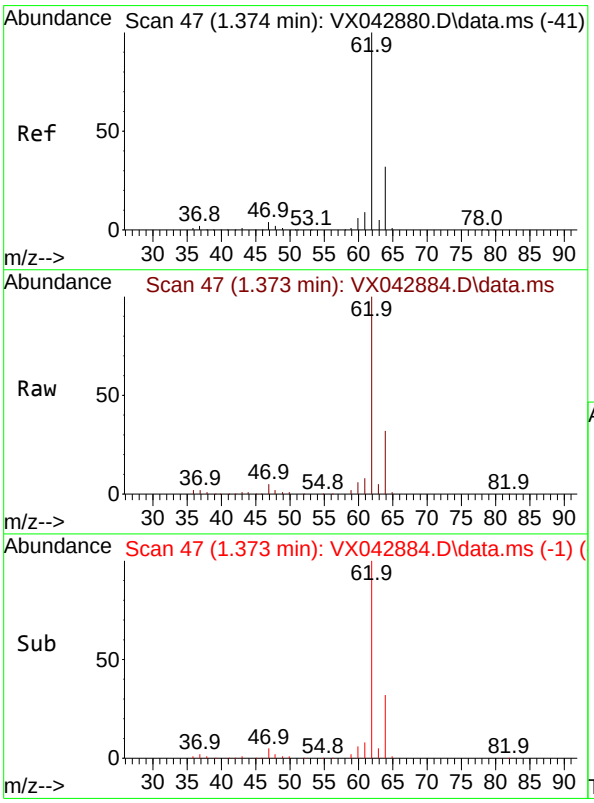
Ion	Ratio	Lower	Upper
50	100		
52	33.7	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

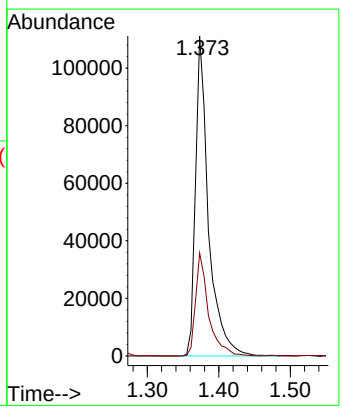


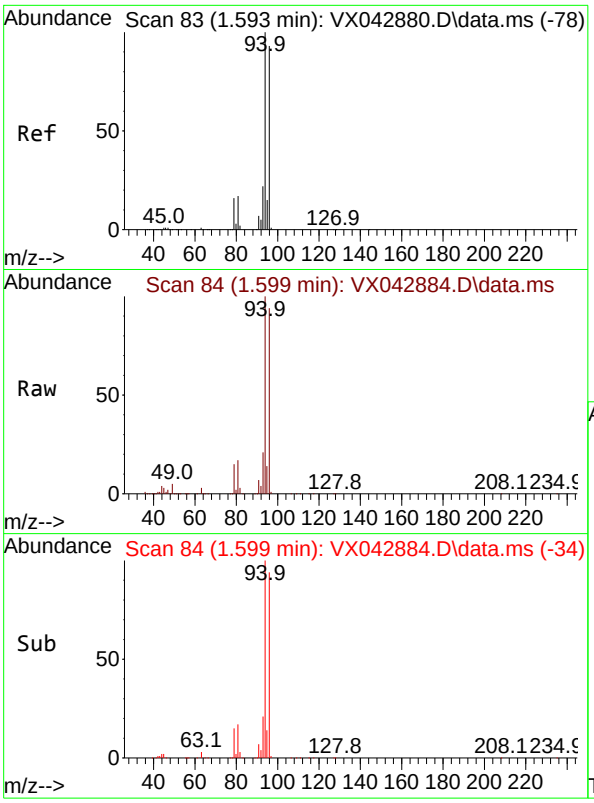


#4
Vinyl Chloride
Concen: 49.460 ug/l
RT: 1.373 min Scan# 47
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 62 Resp: 139983

Ion	Ratio	Lower	Upper
62	100		
64	32.2	25.4	38.0

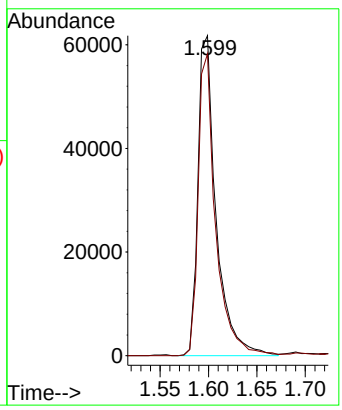




#5
Bromomethane
Concen: 47.164 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.006 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 94 Resp: 8078

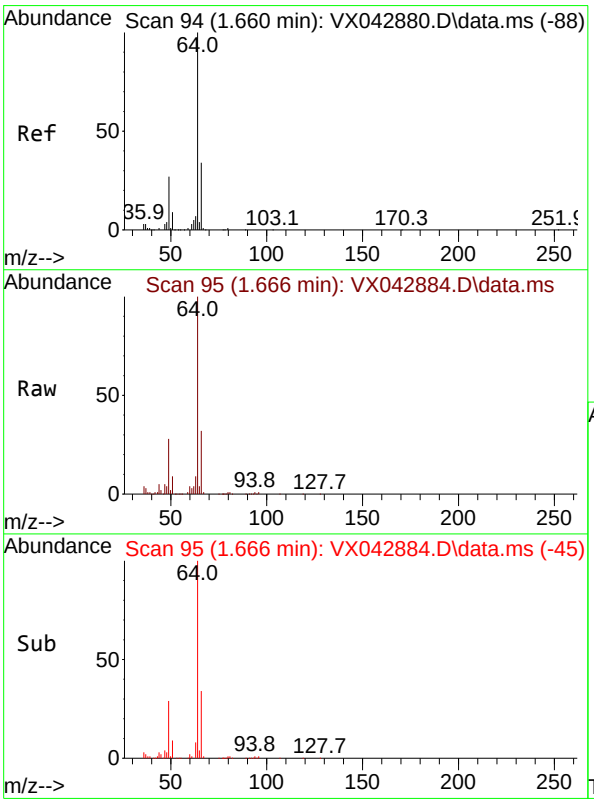
Ion	Ratio	Lower	Upper
94	100		
96	94.4	74.6	111.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

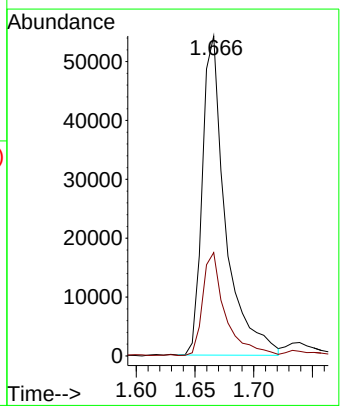
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

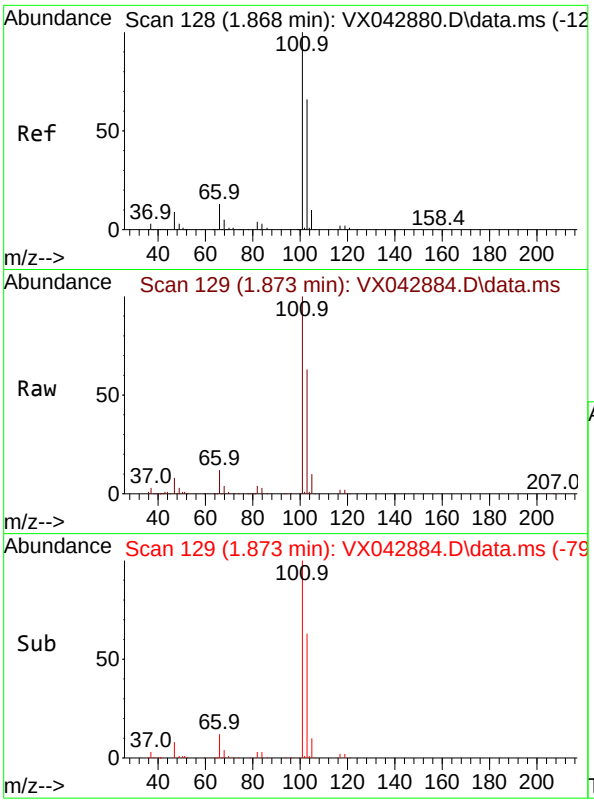


#6
Chloroethane
Concen: 46.022 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.006 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 64 Resp: 74204

Ion	Ratio	Lower	Upper
64	100		
66	32.2	25.1	37.7

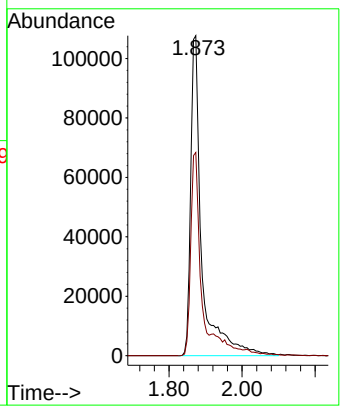




#7
Trichlorofluoromethane
Concen: 51.849 ug/l
RT: 1.873 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion:101 Resp: 22821

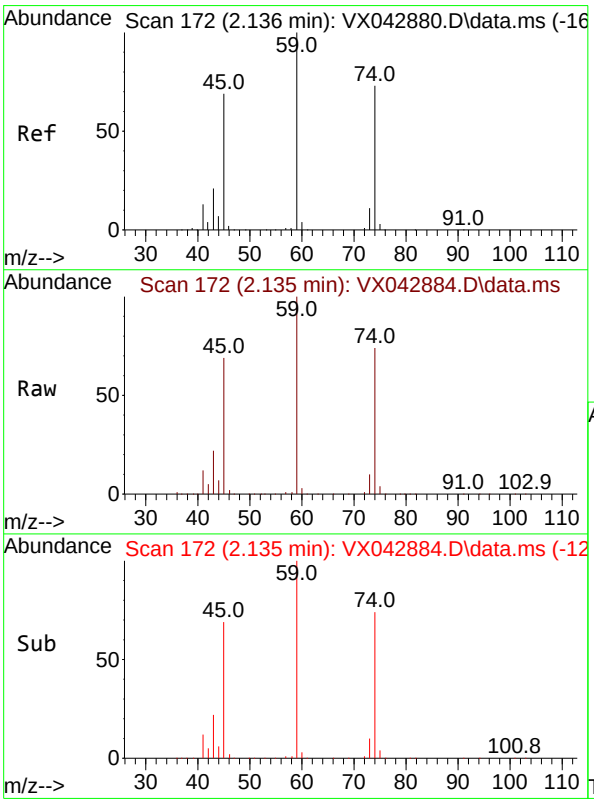
Ion	Ratio	Lower	Upper
101	100		
103	63.5	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

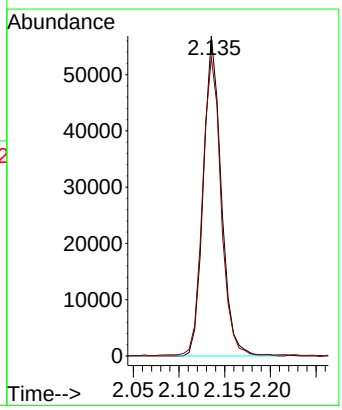
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

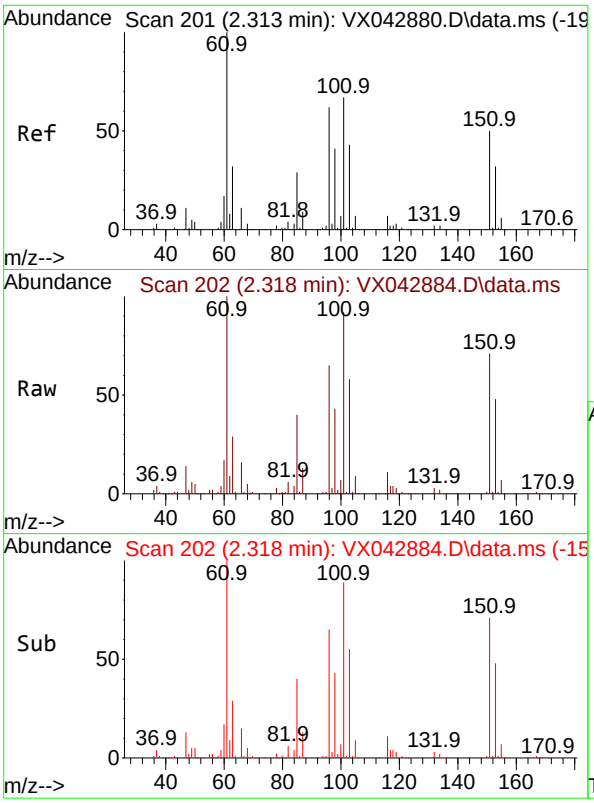


#8
Diethyl Ether
Concen: 47.339 ug/l
RT: 2.135 min Scan# 172
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 74 Resp: 76640

Ion	Ratio	Lower	Upper
74	100		
45	97.3	53.3	159.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.111 ug/l
RT: 2.318 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

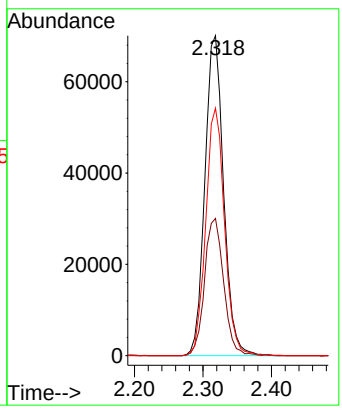
Tgt Ion:101 Resp: 13313

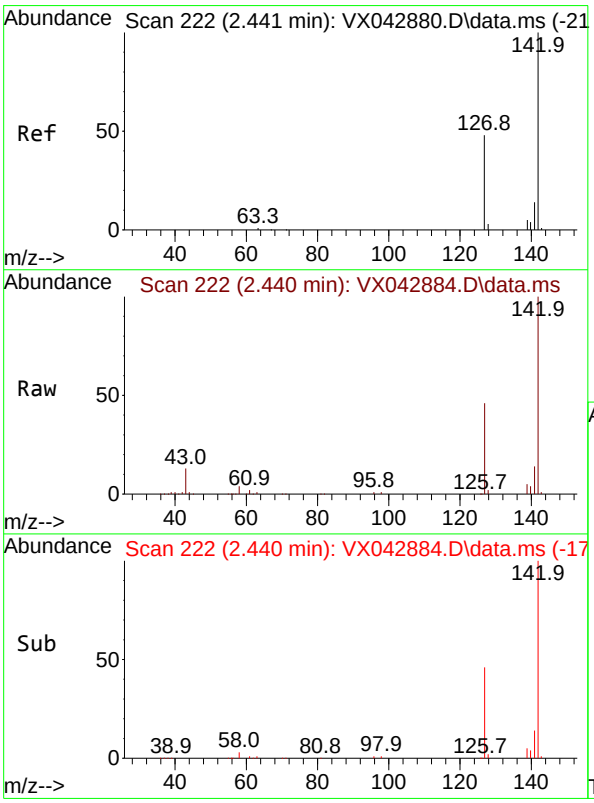
Ion	Ratio	Lower	Upper
101	100		
85	44.0	37.0	55.6
151	77.8	58.6	87.8

Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

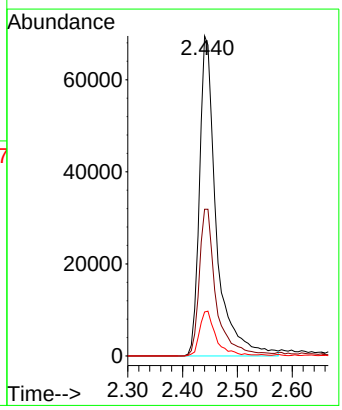


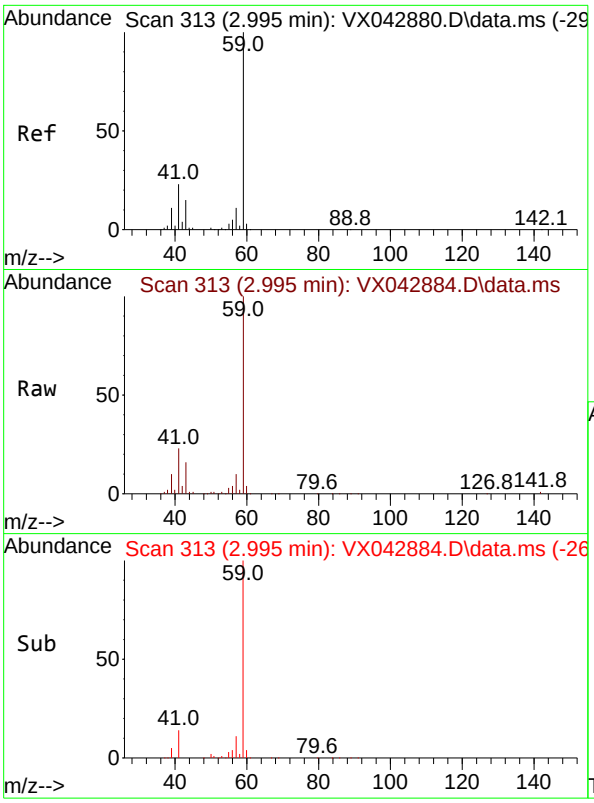


#10
Methyl Iodide
Concen: 51.968 ug/l
RT: 2.440 min Scan# 222
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion:142 Resp: 148705

Ion	Ratio	Lower	Upper
142	100		
127	45.9	41.6	62.4
141	13.7	11.6	17.4

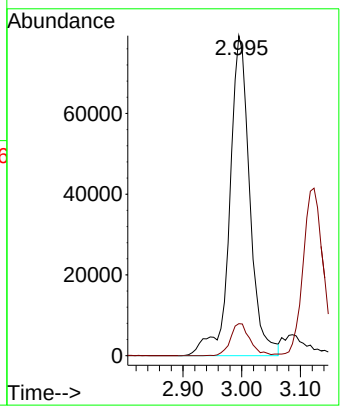




#11
Tert butyl alcohol
Concen: 271.385 ug/l
RT: 2.995 min Scan# 3
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 59 Resp: 18821

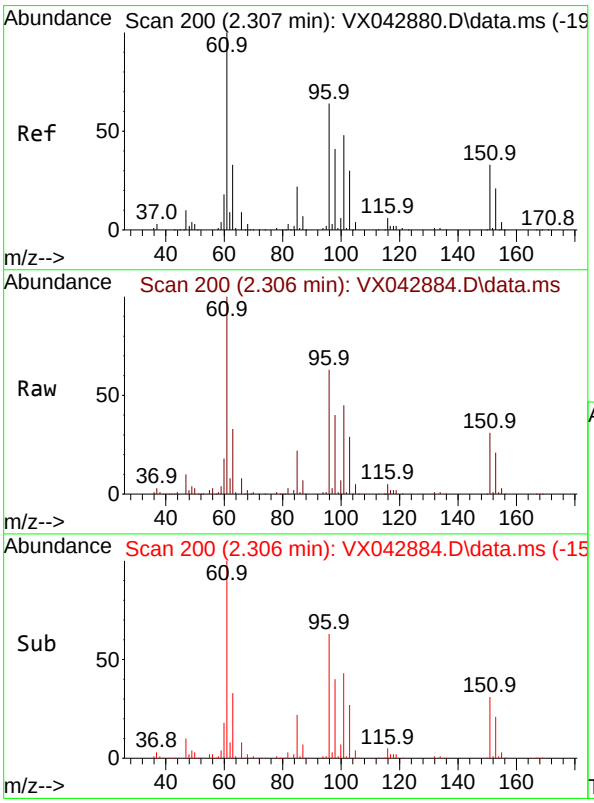
Ion	Ratio	Lower	Upper
59	100		
57	9.8	6.0	9.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

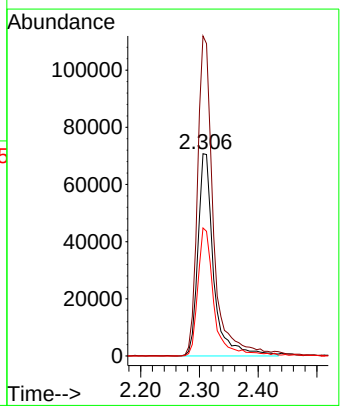
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

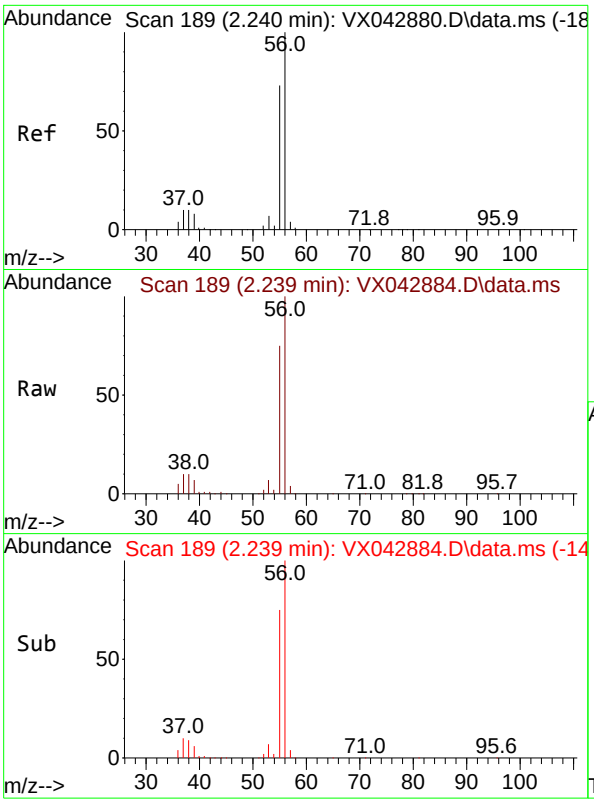


#12
1,1-Dichloroethene
Concen: 47.211 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 96 Resp: 132169

Ion	Ratio	Lower	Upper
96	100		
61	158.3	144.6	216.8
98	63.3	50.4	75.6

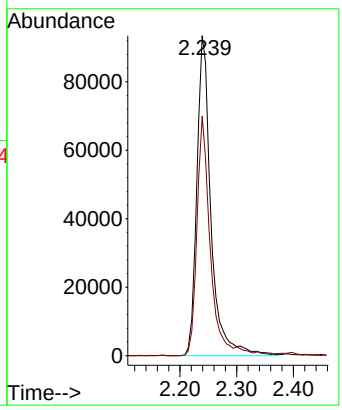




#13
Acrolein
Concen: 236.849 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 56 Resp: 16191

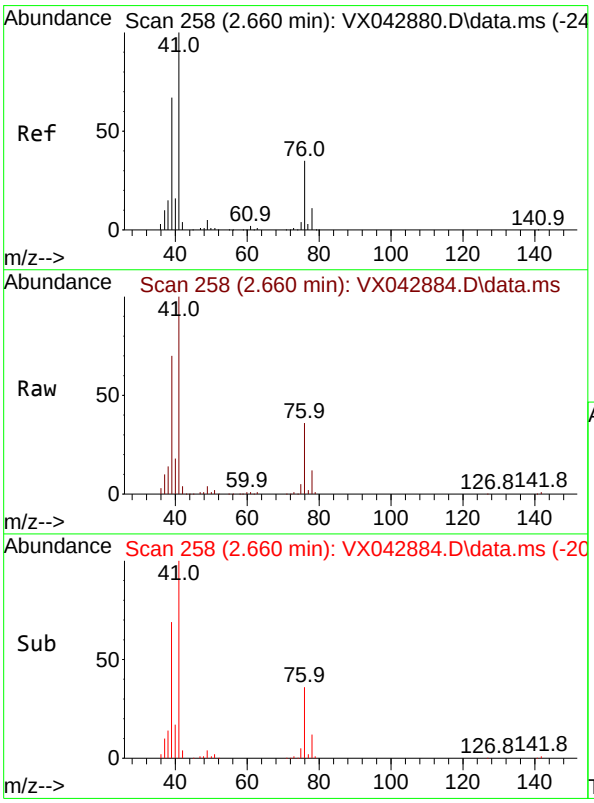
Ion	Ratio	Lower	Upper
56	100		
55	71.3	57.1	85.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

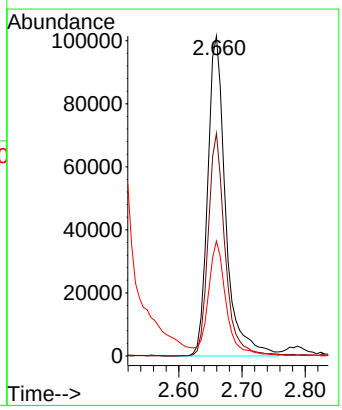
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

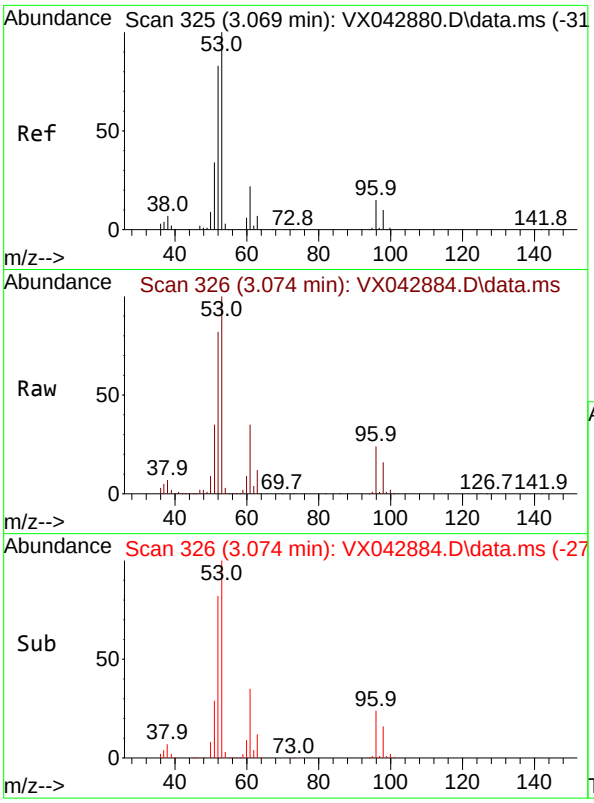


#14
Allyl chloride
Concen: 47.417 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 41 Resp: 200579

Ion	Ratio	Lower	Upper
41	100		
39	65.4	55.8	83.6
76	35.2	24.3	36.5

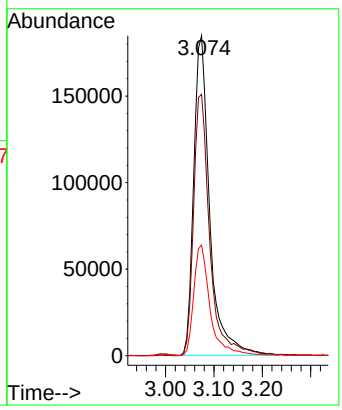




#15
Acrylonitrile
Concen: 239.996 ug/l
RT: 3.074 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 53 Resp: 42483

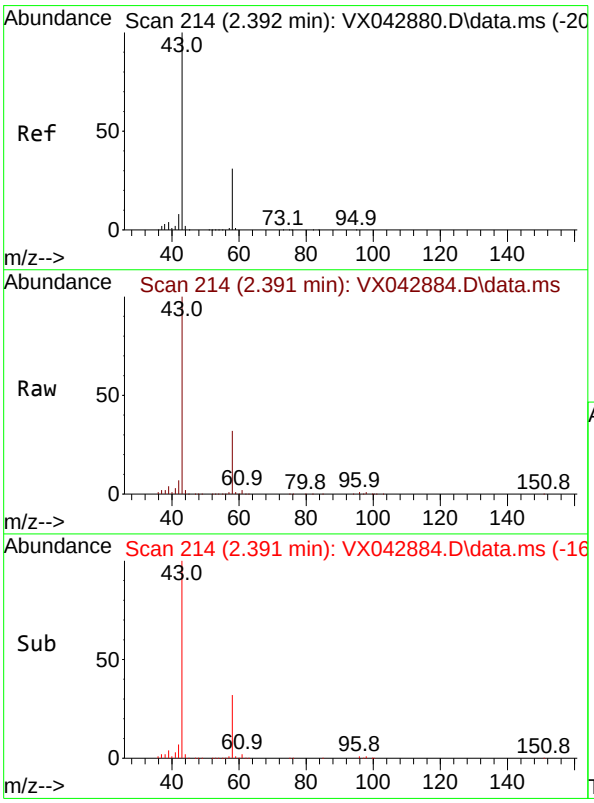
Ion	Ratio	Lower	Upper
53	100		
52	83.1	66.0	99.0
51	35.3	29.8	44.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

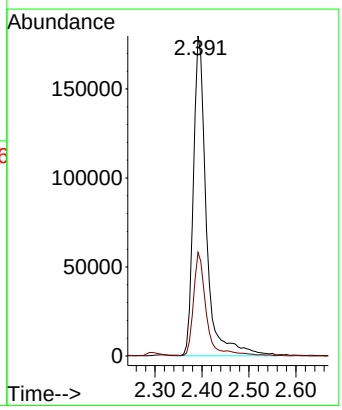
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

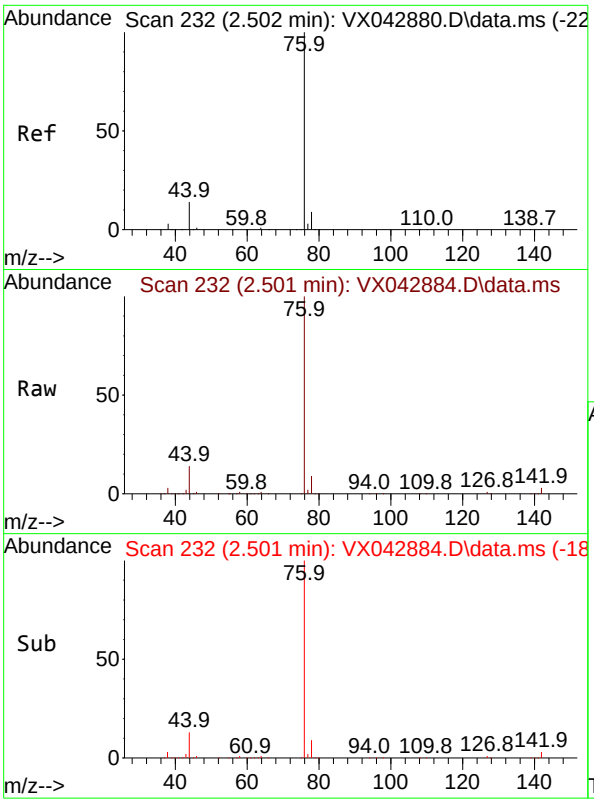


#16
Acetone
Concen: 229.828 ug/l
RT: 2.391 min Scan# 214
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 43 Resp: 347584

Ion	Ratio	Lower	Upper
43	100		
58	32.2	21.9	32.9





#17
Carbon Disulfide
Concen: 48.653 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

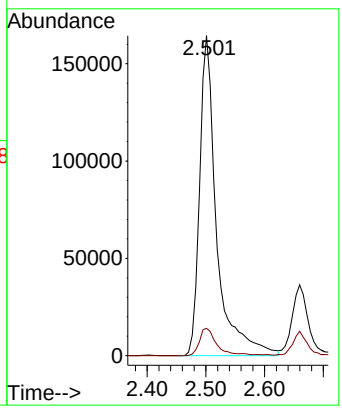
Tgt Ion: 76 Resp: 33145

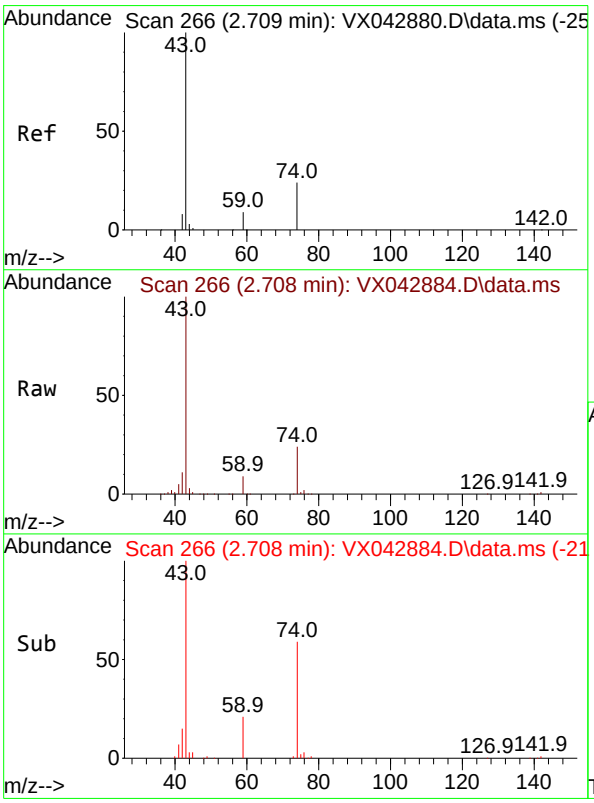
Ion	Ratio	Lower	Upper
76	100		
78	8.5	7.0	10.6

Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

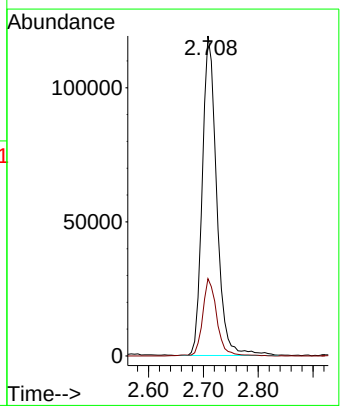


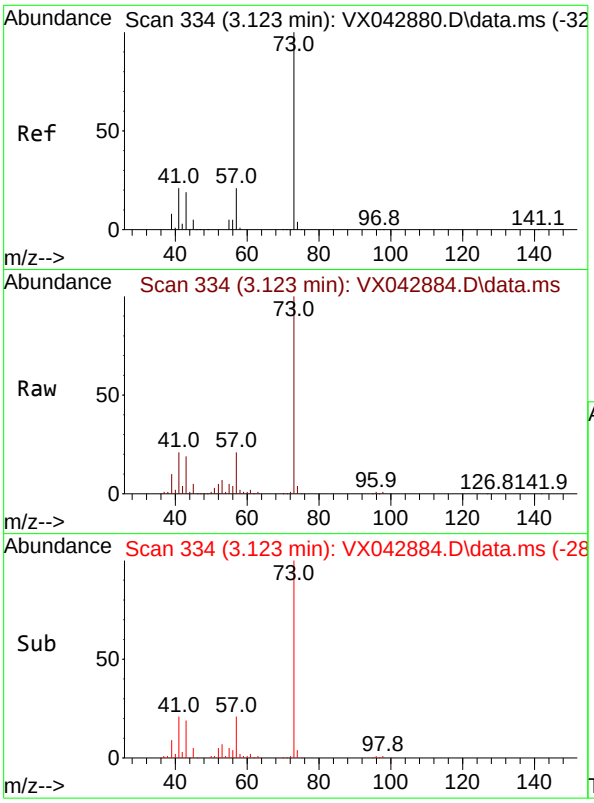


#18
Methyl Acetate
Concen: 45.336 ug/l
RT: 2.708 min Scan# 266
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 43 Resp: 217426

Ion	Ratio	Lower	Upper
43	100		
74	23.8	17.8	26.8

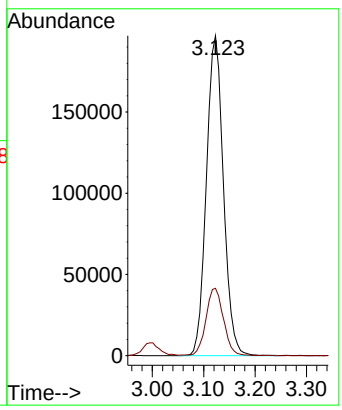




#19
Methyl tert-butyl Ether
Concen: 48.038 ug/l
RT: 3.123 min Scan# 3
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 73 Resp: 45265

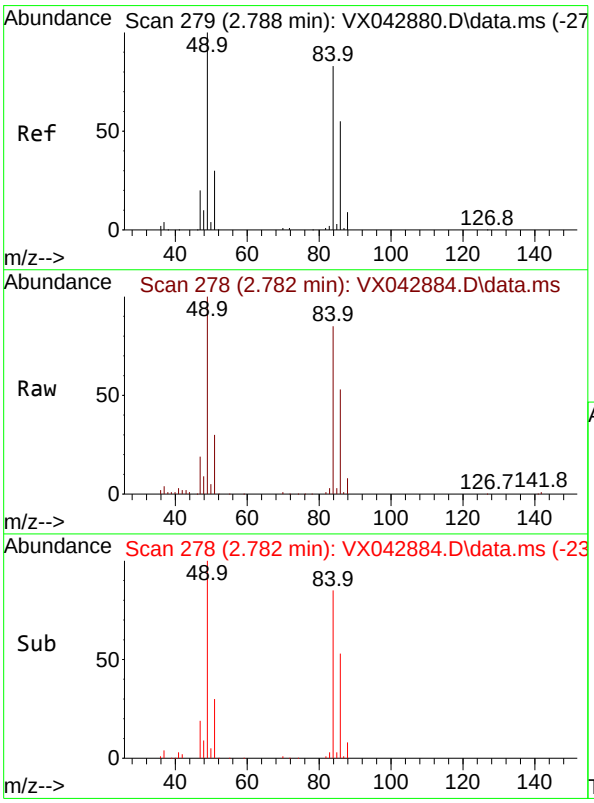
Ion	Ratio	Lower	Upper
73	100		
57	21.1	17.3	25.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

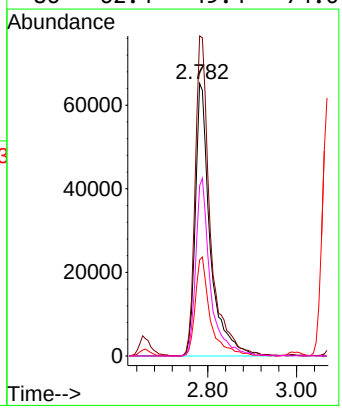
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

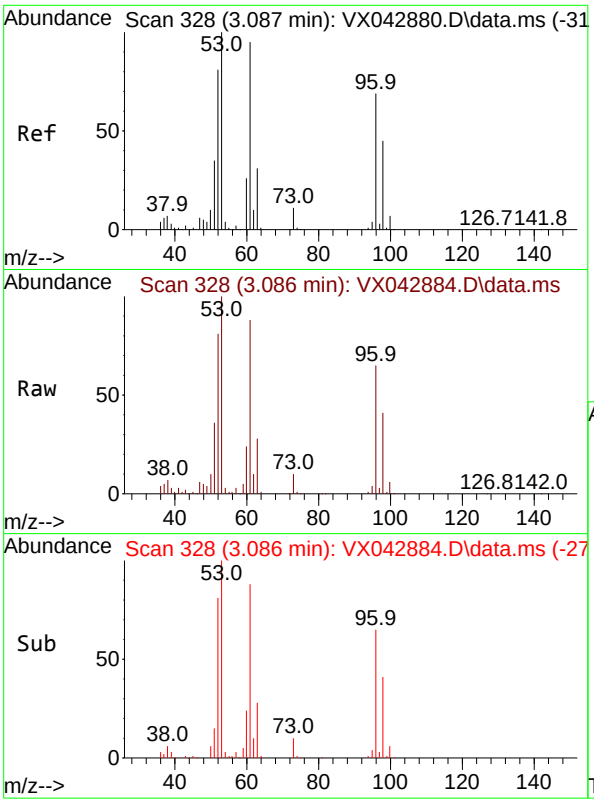


#20
Methylene Chloride
Concen: 48.307 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.006 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 84 Resp: 151272

Ion	Ratio	Lower	Upper
84	100		
49	117.4	103.6	155.4
51	35.3	33.8	50.6
86	62.4	49.4	74.0

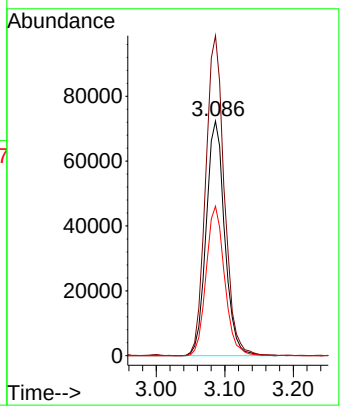




#21
trans-1,2-Dichloroethene
Concen: 48.249 ug/l
RT: 3.086 min Scan# 3
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 96 Resp: 13589

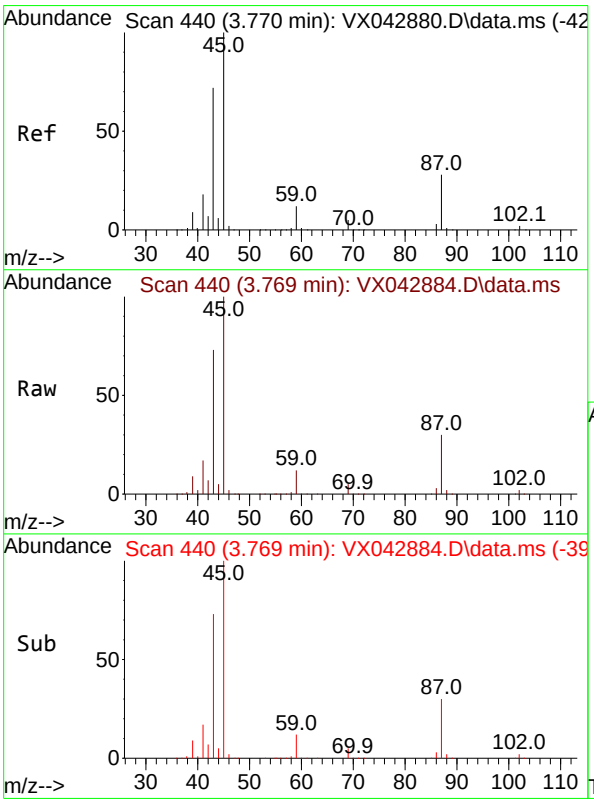
Ion	Ratio	Lower	Upper
96	100		
61	136.4	119.2	178.8
98	63.7	48.7	73.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

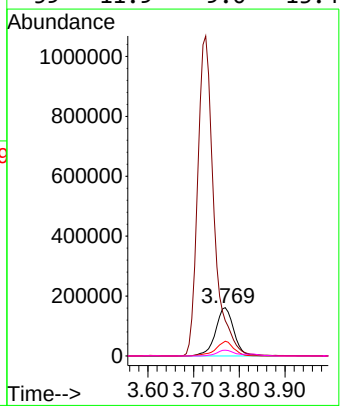
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

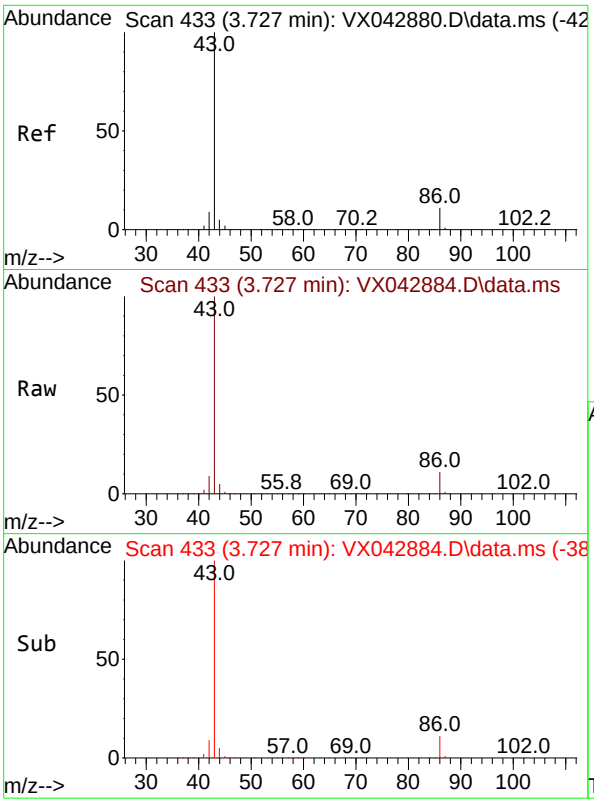


#22
Diisopropyl ether
Concen: 48.164 ug/l
RT: 3.769 min Scan# 440
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 45 Resp: 447579

Ion	Ratio	Lower	Upper
45	100		
43	73.0	69.7	104.5
87	30.5	20.8	31.2
59	11.9	9.0	13.4





#23
Vinyl Acetate
Concen: 250.908 ug/l
RT: 3.727 min Scan# 4
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

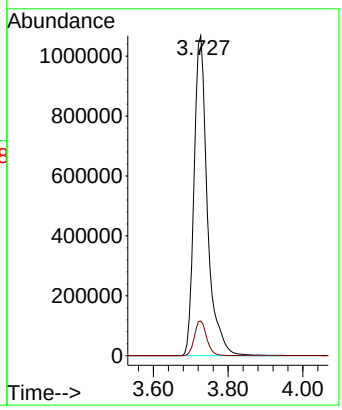
Tgt Ion: 43 Resp: 264632

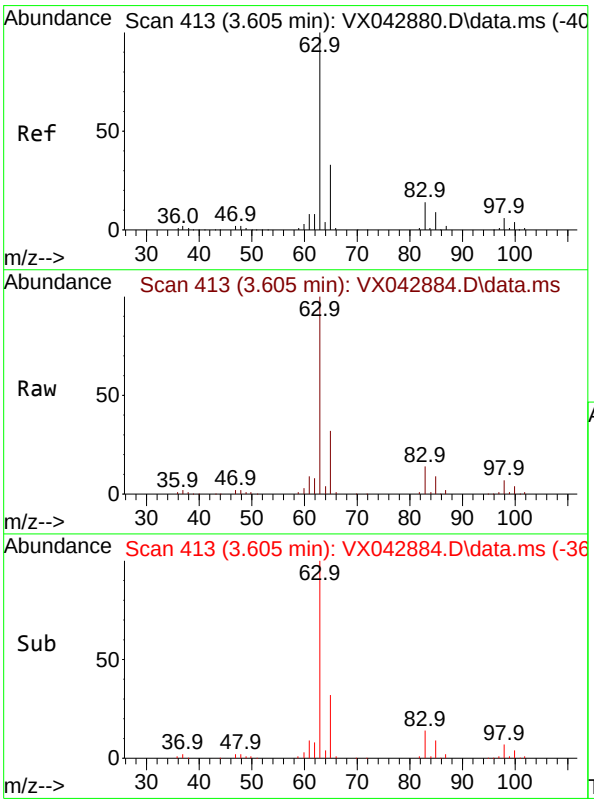
Ion	Ratio	Lower	Upper
43	100		
86	10.9	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

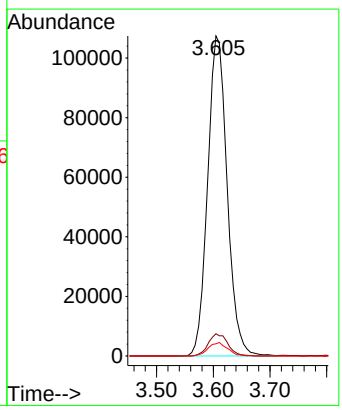


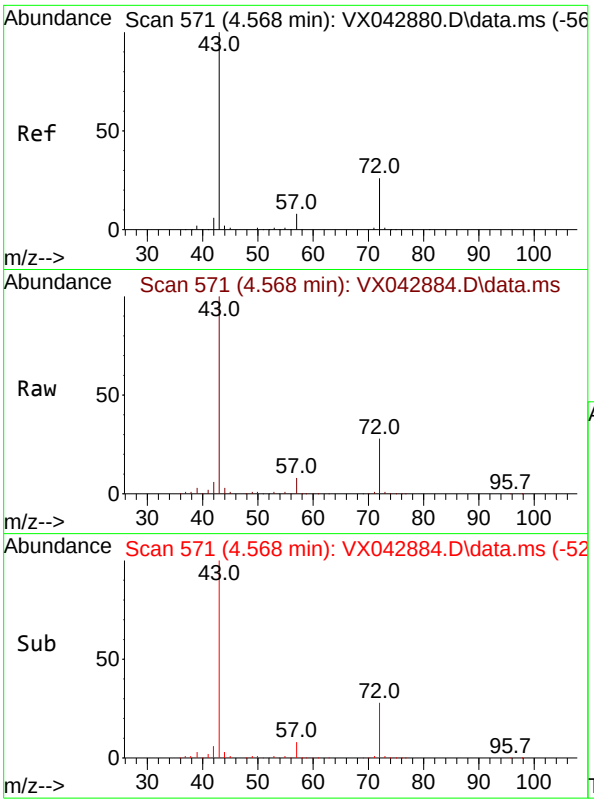


#24
1,1-Dichloroethane
Concen: 48.089 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 63 Resp: 257016

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.3	9.8
100	3.8	2.1	6.5





#25
2-Butanone
Concen: 241.727 ug/l
RT: 4.568 min Scan# 5
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

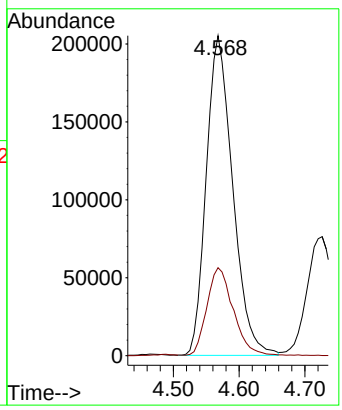
Tgt Ion: 43 Resp: 57411

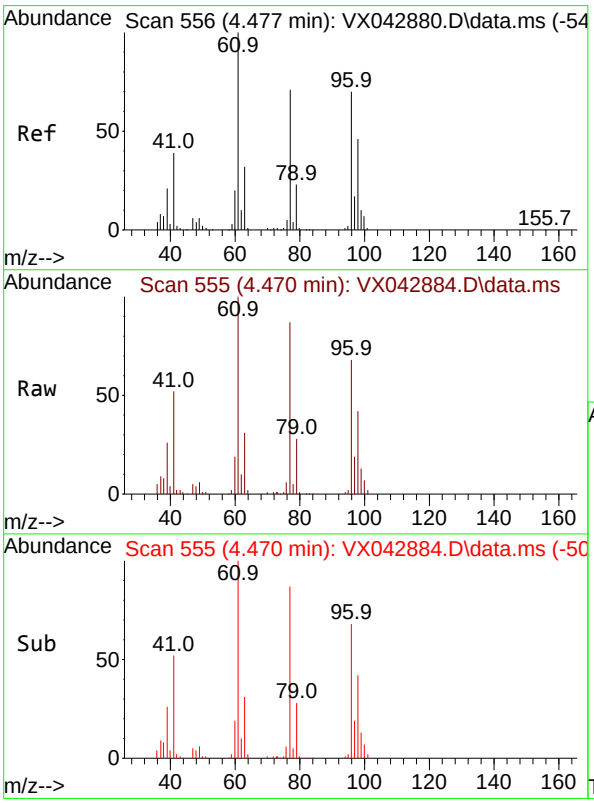
Ion	Ratio	Lower	Upper
43	100		
72	27.3	19.4	29.2

Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

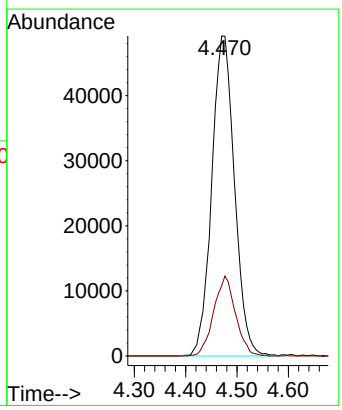


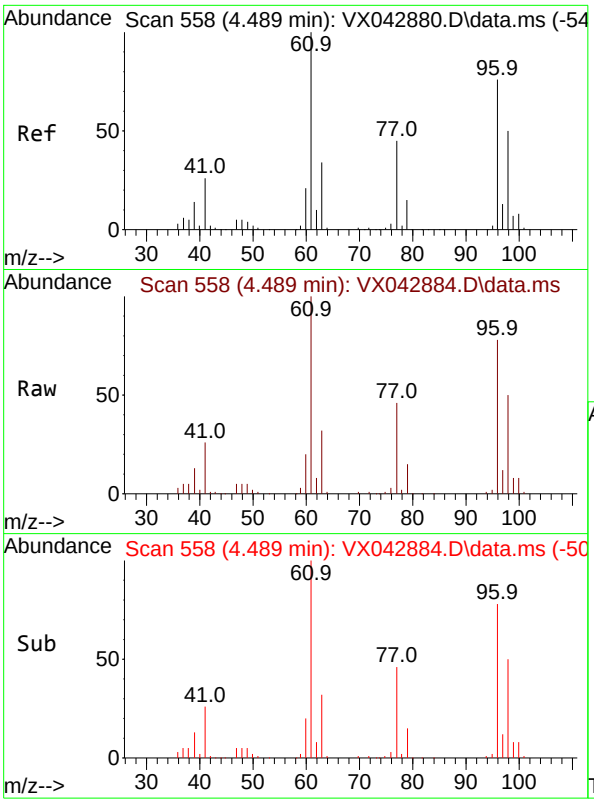


#26
2,2-Dichloropropane
Concen: 45.984 ug/l
RT: 4.470 min Scan# 555
Delta R.T. -0.007 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 77 Resp: 151088

Ion	Ratio	Lower	Upper
77	100		
97	23.9	10.8	32.3

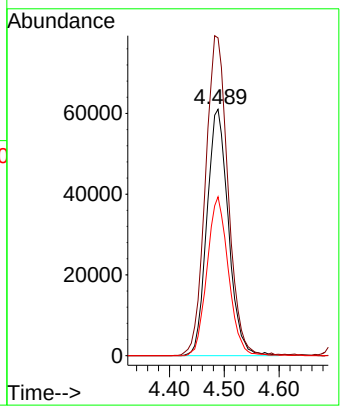




#27
cis-1,2-Dichloroethene
Concen: 49.679 ug/l
RT: 4.489 min Scan# 5
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 96 Resp: 16594

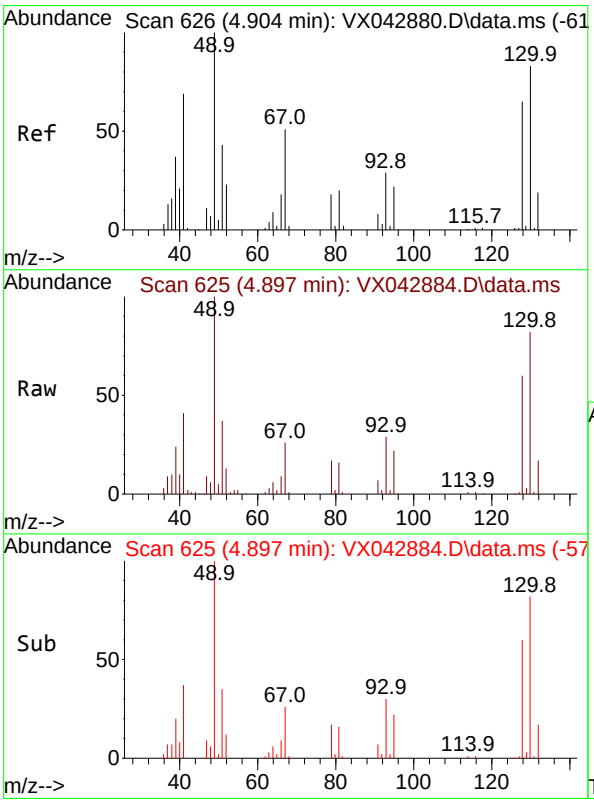
Ion	Ratio	Lower	Upper
96	100		
61	136.1	0.0	312.2
98	64.1	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

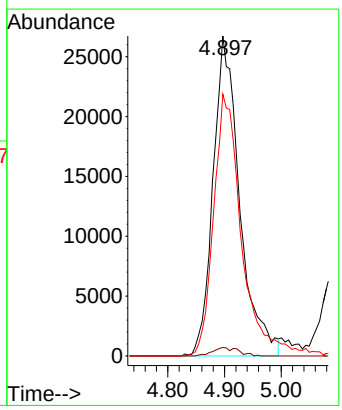
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

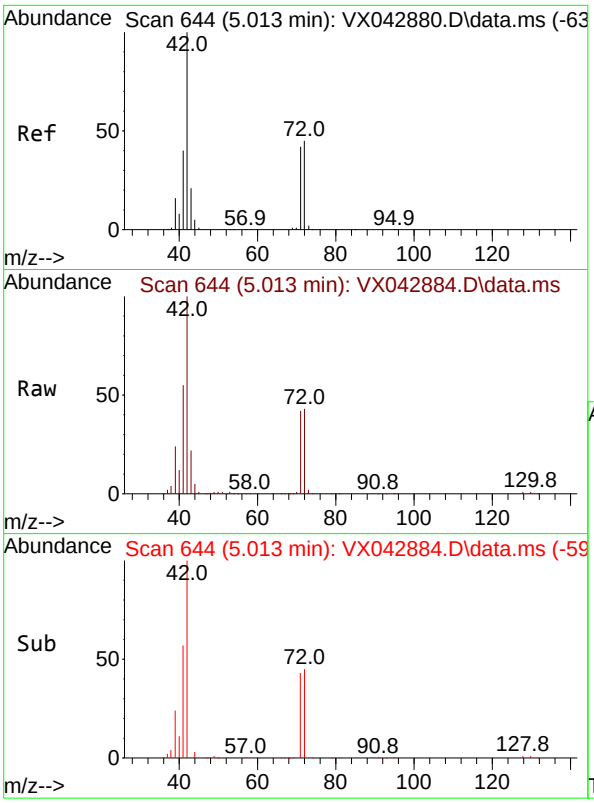


#28
Bromochloromethane
Concen: 42.446 ug/l
RT: 4.897 min Scan# 625
Delta R.T. -0.007 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 49 Resp: 87046

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.8
130	86.5	57.5	86.3#





#29
Tetrahydrofuran
Concen: 240.296 ug/l
RT: 5.013 min Scan# 64
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

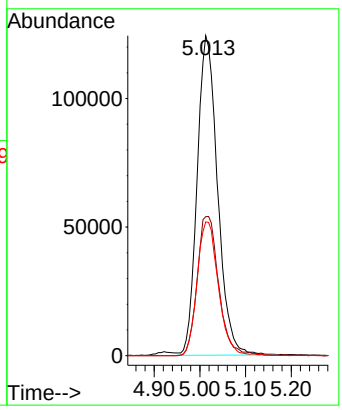
Tgt Ion: 42 Resp: 38565

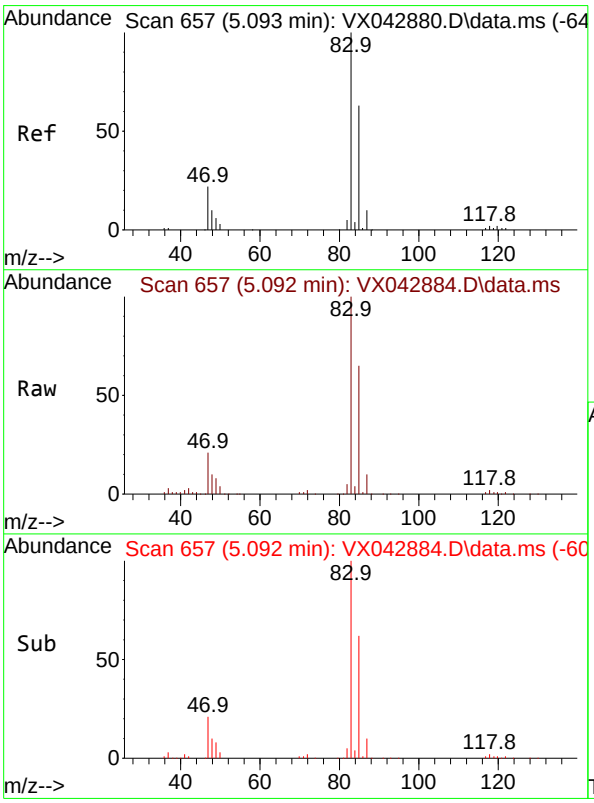
Ion	Ratio	Lower	Upper
42	100		
72	46.0	34.2	51.4
71	43.3	32.2	48.2

Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

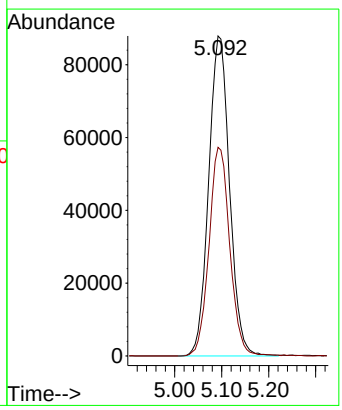


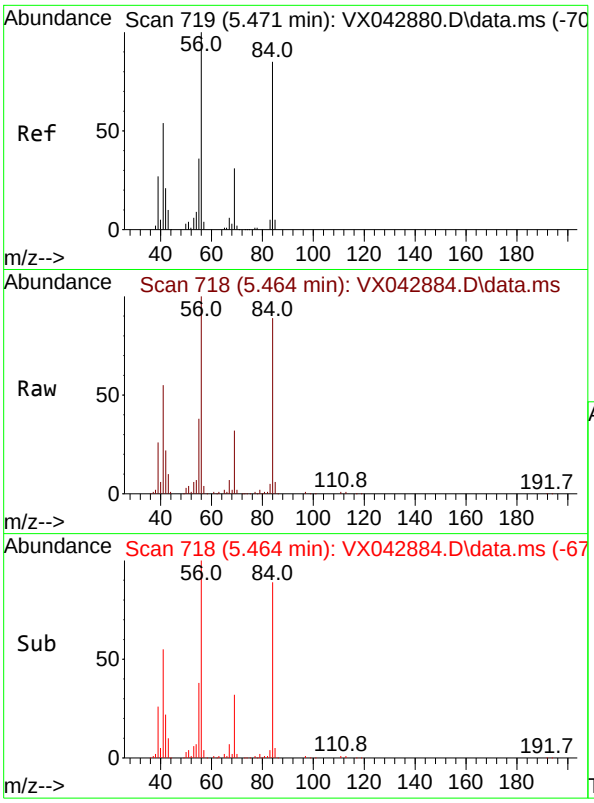


#30
Chloroform
Concen: 48.400 ug/l
RT: 5.092 min Scan# 657
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 83 Resp: 270798

Ion	Ratio	Lower	Upper
83	100		
85	65.2	50.3	75.5

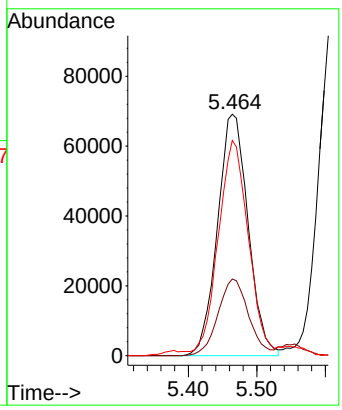




#31
Cyclohexane
Concen: 49.168 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 56 Resp: 21451

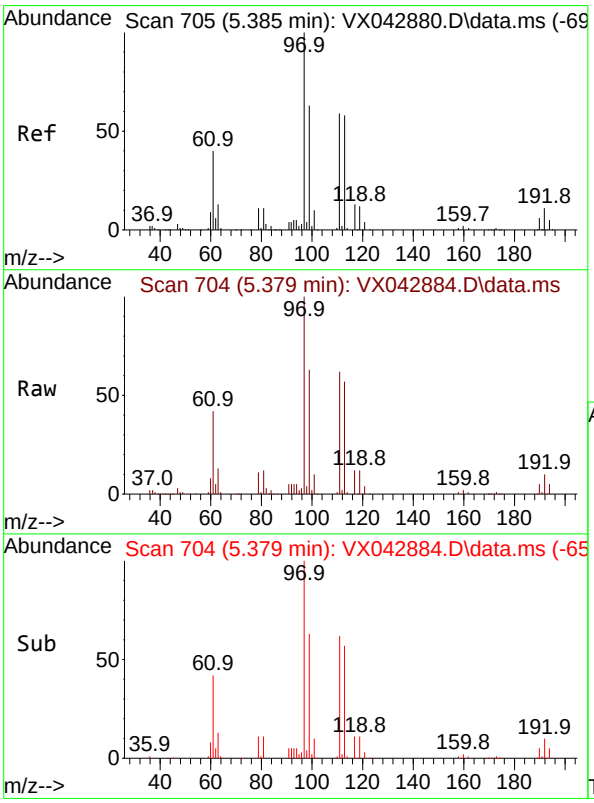
Ion	Ratio	Lower	Upper
56	100		
69	31.8	23.4	35.2
84	87.6	65.9	98.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

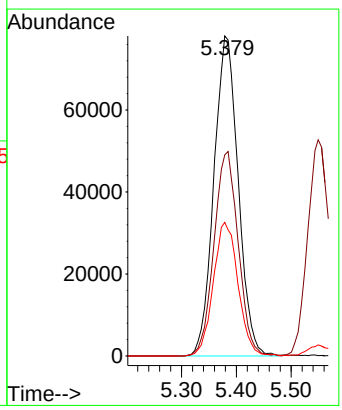
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

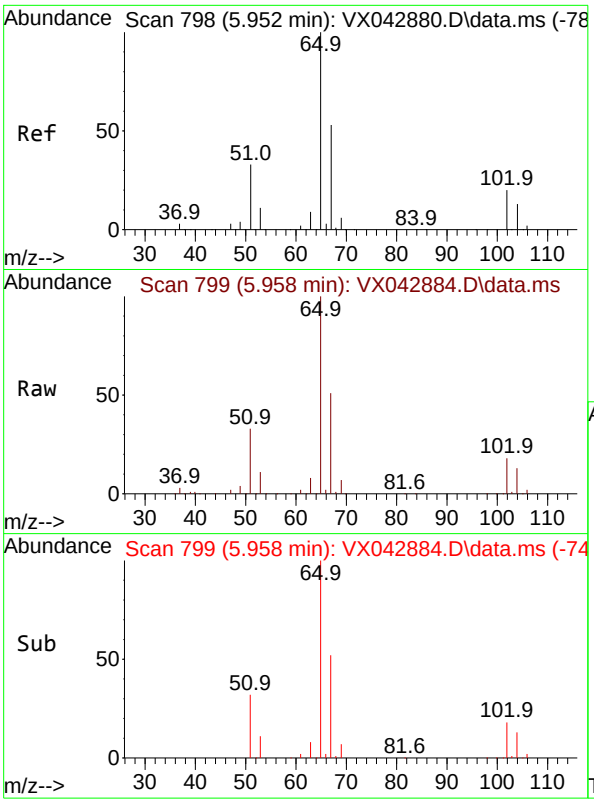


#32
1,1,1-Trichloroethane
Concen: 48.803 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.007 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 97 Resp: 240375

Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.1	76.7
61	42.5	36.4	54.6





#33
1,2-Dichloroethane-d4
Concen: 51.027 ug/l
RT: 5.958 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

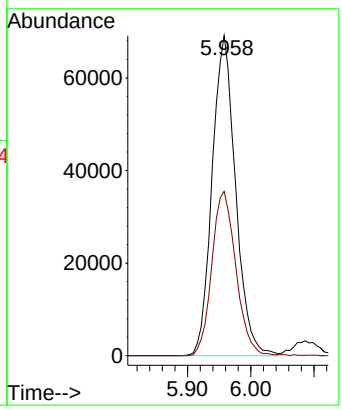
Tgt Ion: 65 Resp: 17792

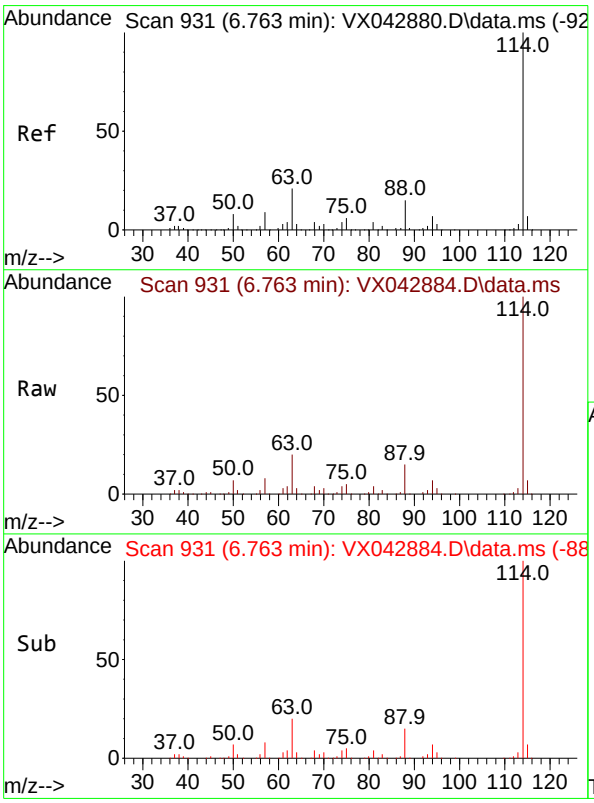
Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	100.2

Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

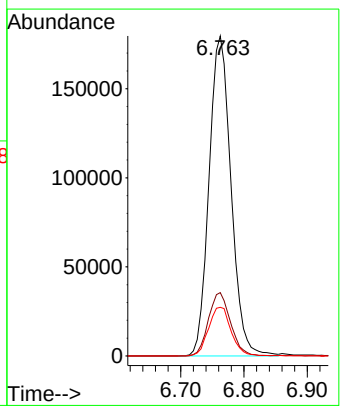


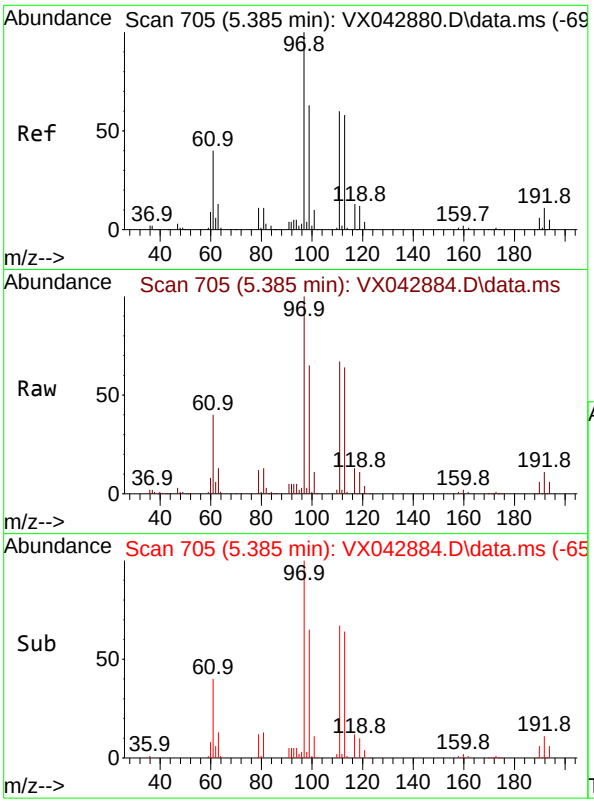


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion:114 Resp: 433504

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	45.0
88	15.2	0.0	36.6

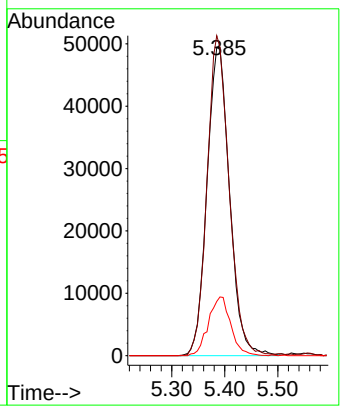




#35
Dibromofluoromethane
Concen: 51.641 ug/l
RT: 5.385 min Scan# 7
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion:113 Resp: 14637

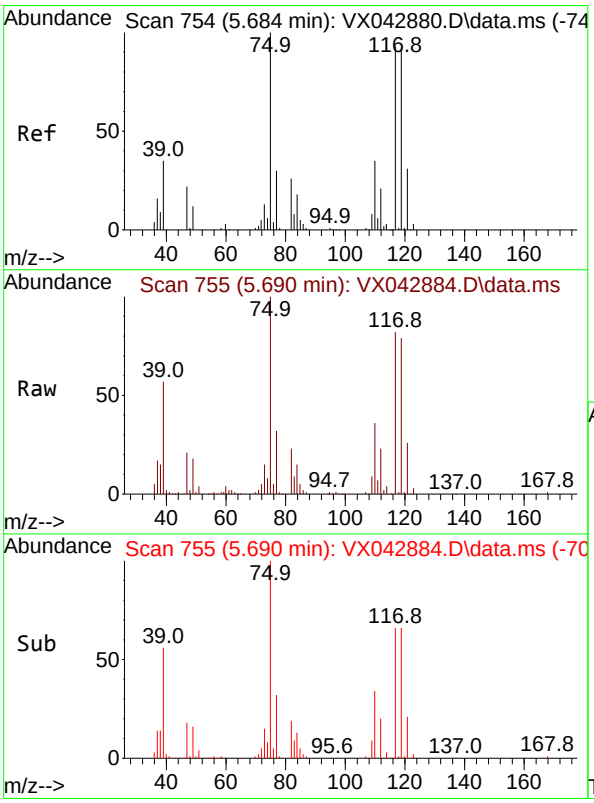
Ion	Ratio	Lower	Upper
113	100		
111	101.3	82.9	124.3
192	18.8	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

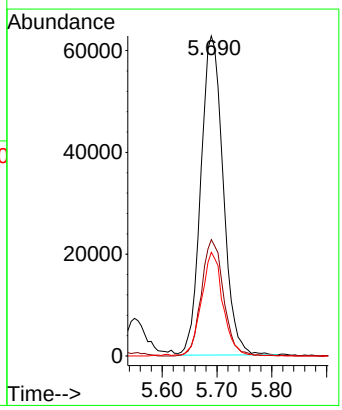
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

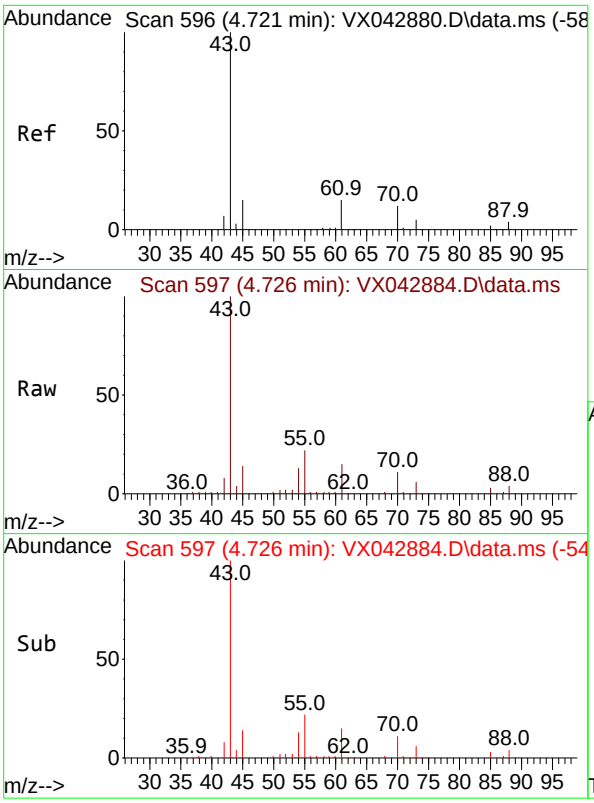


#36
1,1-Dichloropropene
Concen: 45.993 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.006 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 75 Resp: 176751

Ion	Ratio	Lower	Upper
75	100		
110	36.3	17.0	50.9
77	31.1	24.7	37.1





#37
Ethyl Acetate
Concen: 47.100 ug/l
RT: 4.726 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

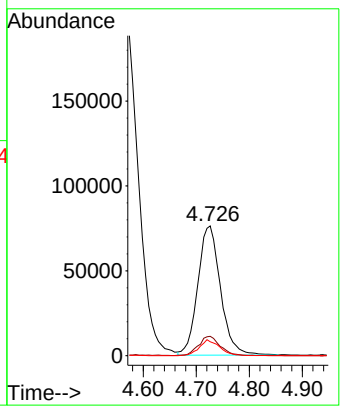
Tgt Ion: 43 Resp: 22646

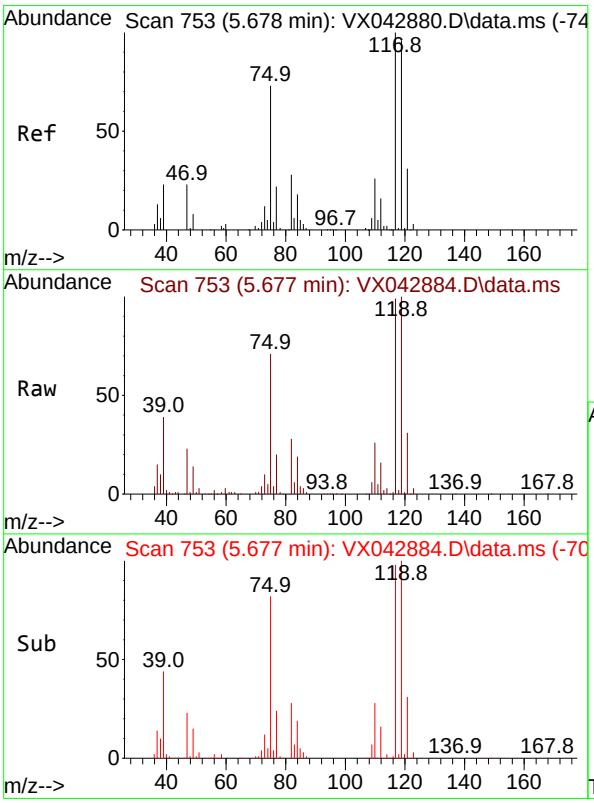
Ion	Ratio	Lower	Upper
43	100		
61	14.0	10.6	16.0
70	11.0	8.3	12.5

Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

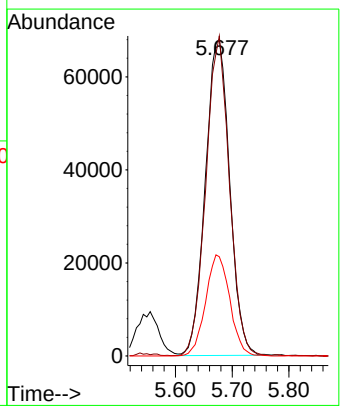


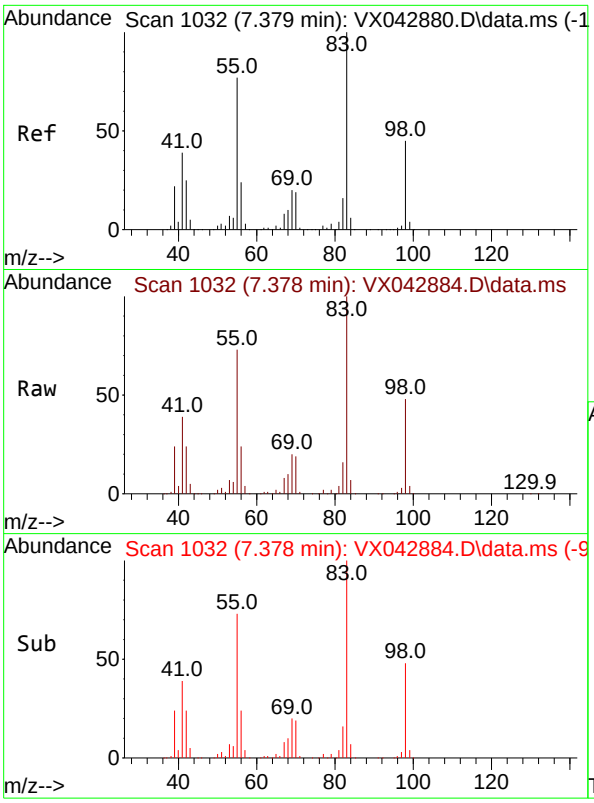


#38
Carbon Tetrachloride
Concen: 46.752 ug/l
RT: 5.677 min Scan# 753
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion:117 Resp: 202813

Ion	Ratio	Lower	Upper
117	100		
119	101.3	78.2	117.2
121	31.4	24.4	36.6

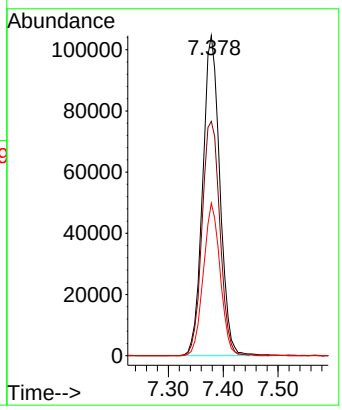




#39
Methylcyclohexane
Concen: 49.760 ug/l
RT: 7.378 min Scan# 1
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 83 Resp: 22732

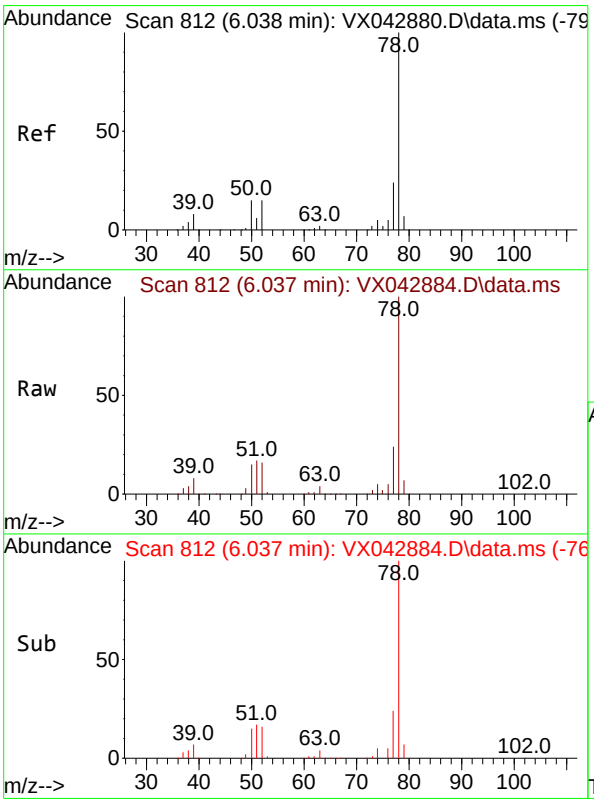
Ion	Ratio	Lower	Upper
83	100		
55	73.2	64.6	97.0
98	47.7	36.7	55.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

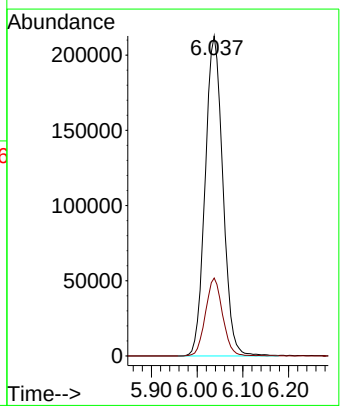
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

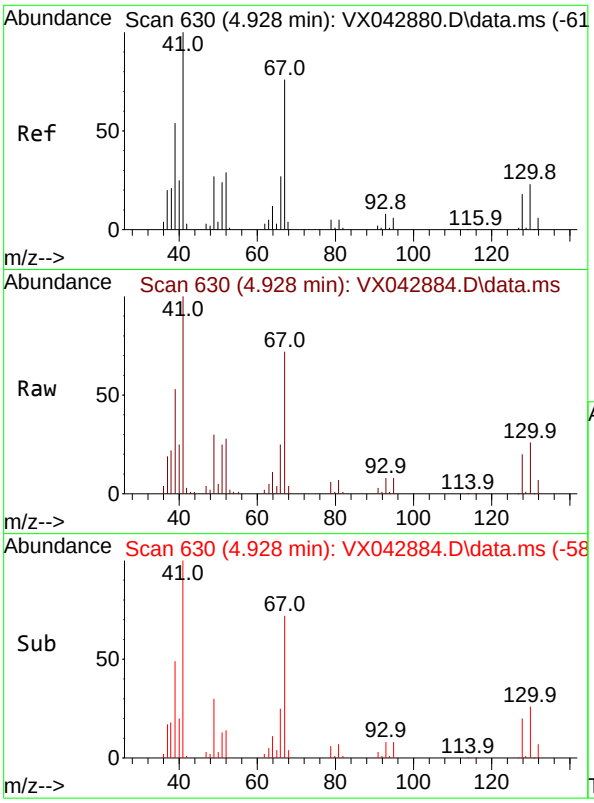


#40
Benzene
Concen: 47.990 ug/l
RT: 6.037 min Scan# 812
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 78 Resp: 572371

Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.3	28.9

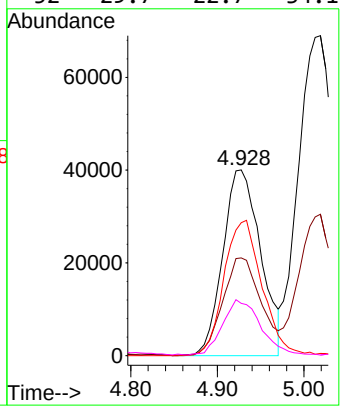




#41
Methacrylonitrile
Concen: 49.128 ug/l
RT: 4.928 min Scan# 6
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 41 Resp: 12166

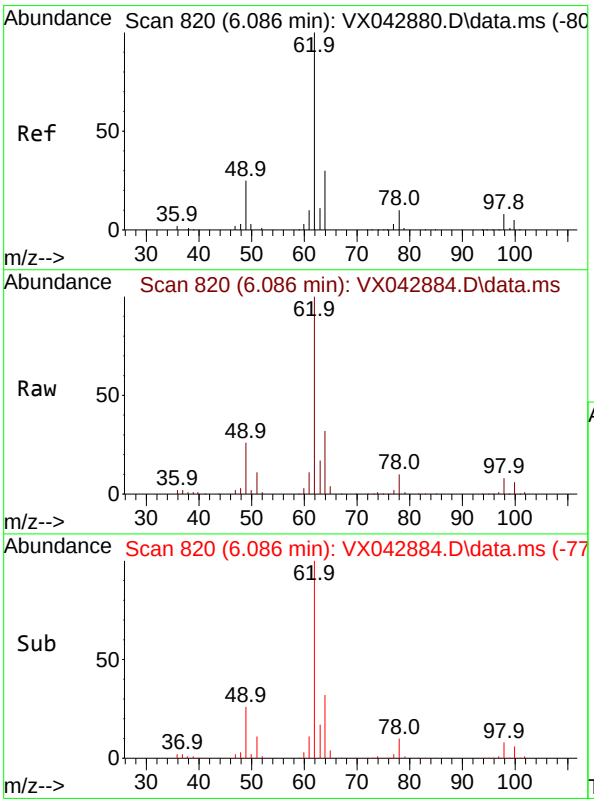
Ion	Ratio	Lower	Upper
41	100		
39	53.6	45.2	67.8
67	73.9	52.6	78.8
52	29.7	22.7	34.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

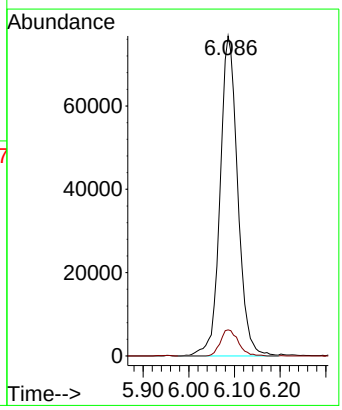
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

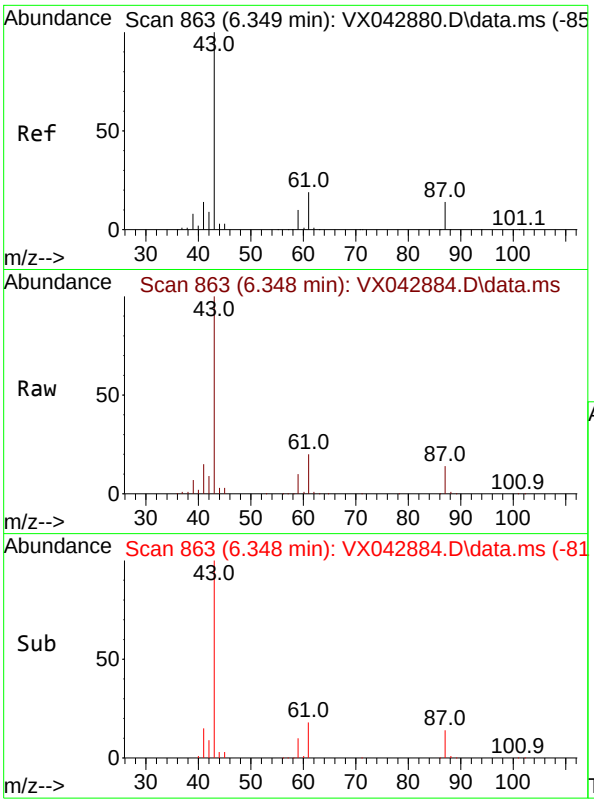


#42
1,2-Dichloroethane
Concen: 47.516 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 62 Resp: 206136

Ion	Ratio	Lower	Upper
62	100		
98	8.3	0.0	16.0





#43
Isopropyl Acetate
Concen: 48.996 ug/l
RT: 6.348 min Scan# 8
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

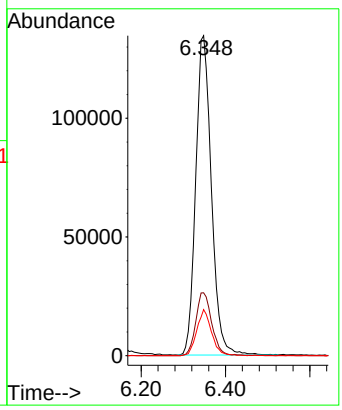
Tgt Ion: 43 Resp: 34841

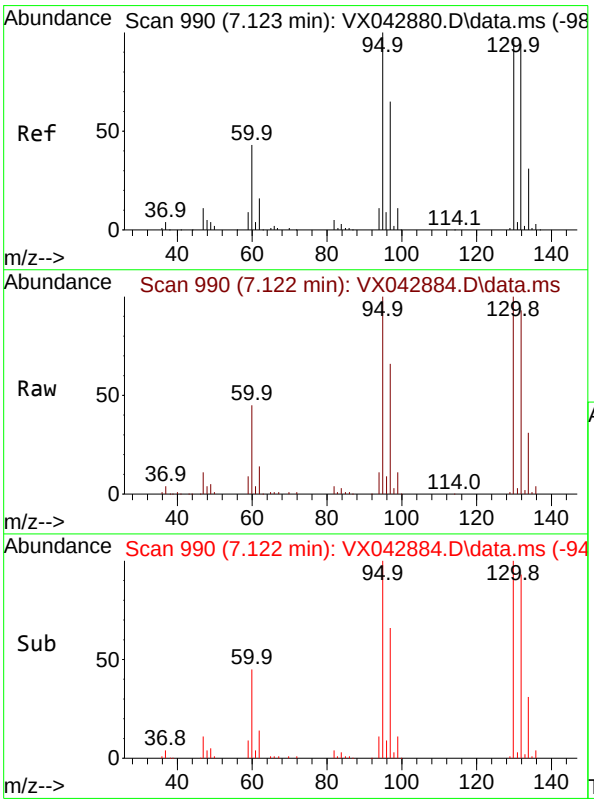
Ion	Ratio	Lower	Upper
43	100		
61	19.9	15.2	22.8
87	13.5	9.8	14.6

Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

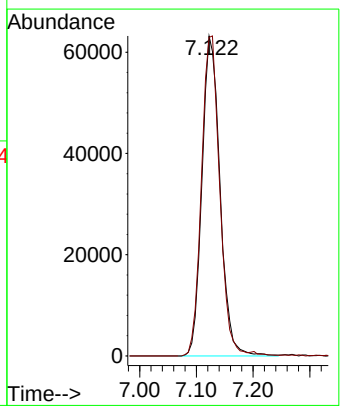


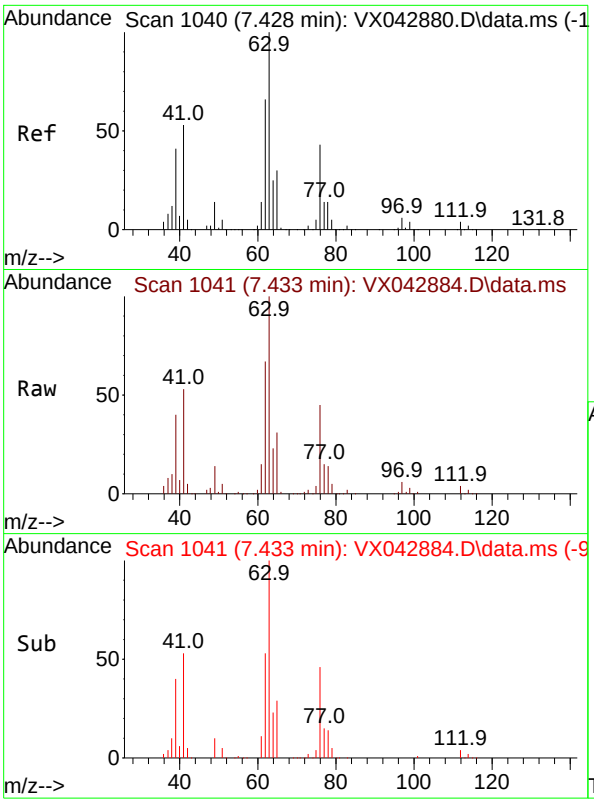


#44
Trichloroethene
Concen: 46.633 ug/l
RT: 7.122 min Scan# 990
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion:130 Resp: 139752

Ion	Ratio	Lower	Upper
130	100		
95	99.6	0.0	204.4





#45
1,2-Dichloropropane
Concen: 46.713 ug/l
RT: 7.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

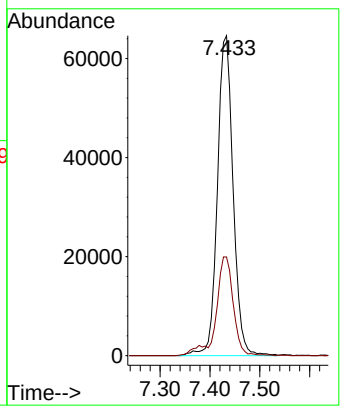
Tgt Ion: 63 Resp: 14133

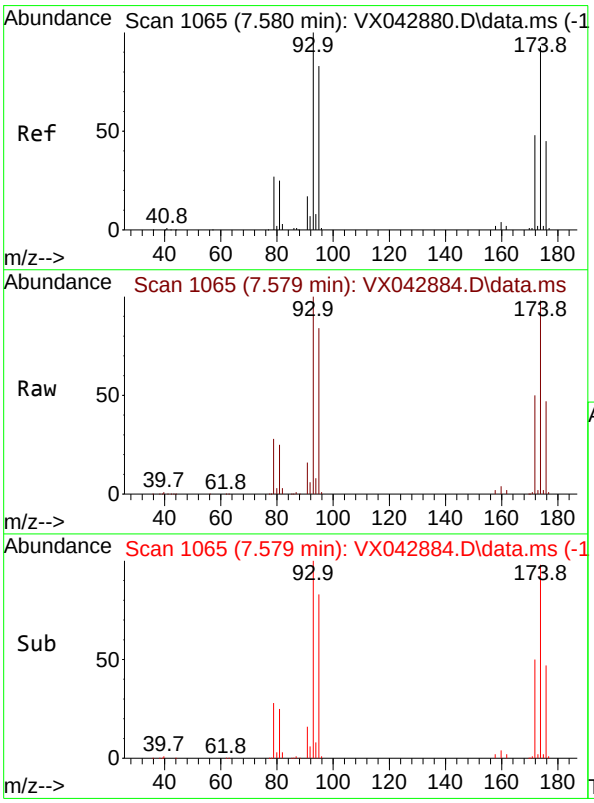
Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.3	36.5

Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

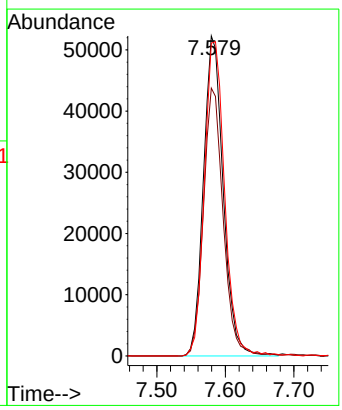


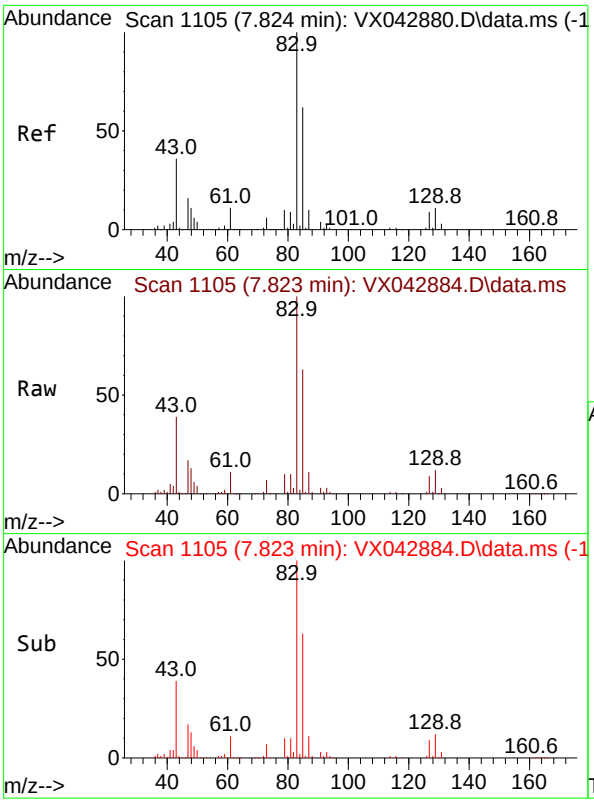


#46
Dibromomethane
Concen: 47.212 ug/l
RT: 7.579 min Scan# 1065
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 93 Resp: 104909

Ion	Ratio	Lower	Upper
93	100		
95	83.1	66.6	100.0
174	101.3	69.4	104.0

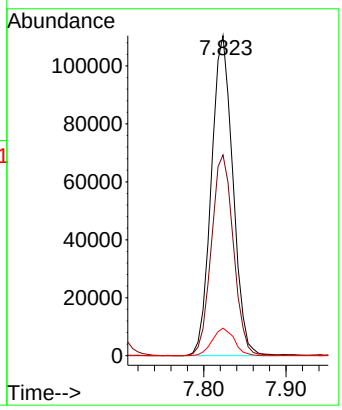




#47
Bromodichloromethane
Concen: 48.765 ug/l
RT: 7.823 min Scan# 11
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 83 Resp: 20129

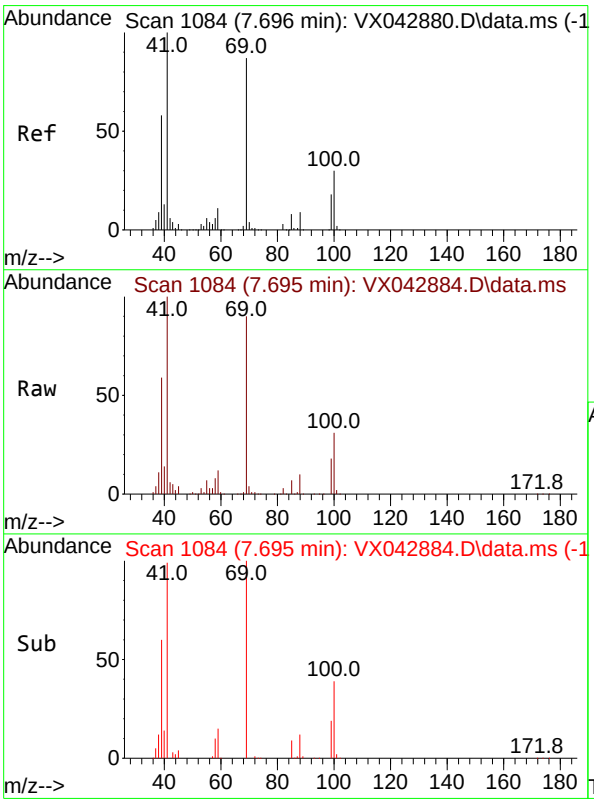
Ion	Ratio	Lower	Upper
83	100		
85	62.7	49.8	74.6
127	8.6	7.1	10.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

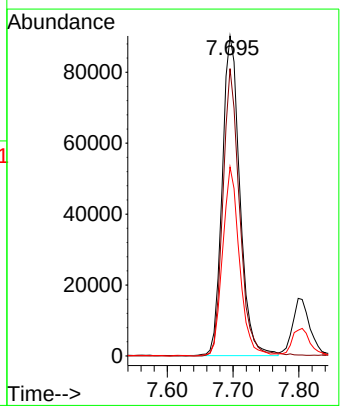
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

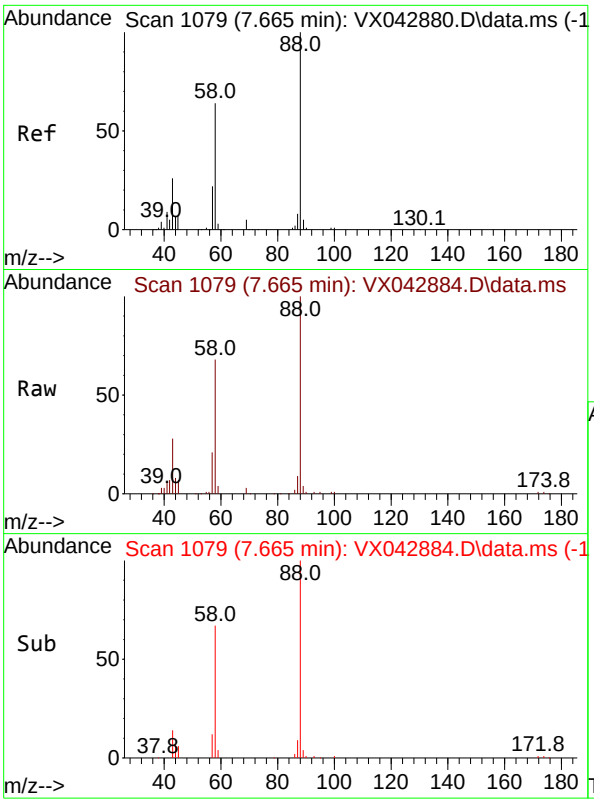


#48
Methyl methacrylate
Concen: 49.376 ug/l
RT: 7.695 min Scan# 1084
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 41 Resp: 168358

Ion	Ratio	Lower	Upper
41	100		
69	85.3	59.2	88.8
39	56.7	47.7	71.5

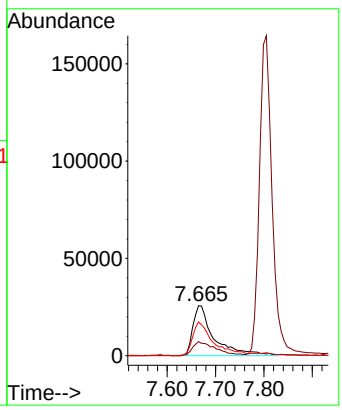




#49
1,4-Dioxane
Concen: 1029.881 ug/l
RT: 7.665 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 88 Resp: 7795

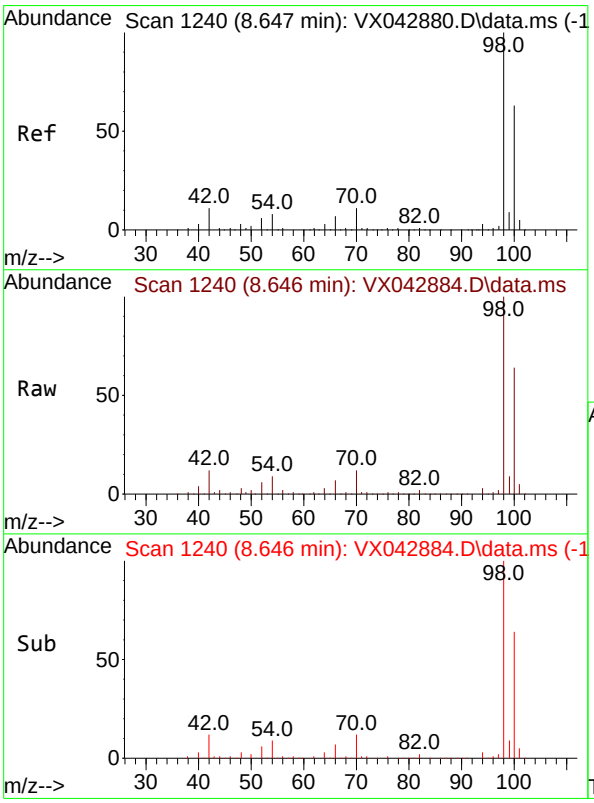
Ion	Ratio	Lower	Upper
88	100		
43	31.2	0.0	0.0
58	65.6	60.1	90.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

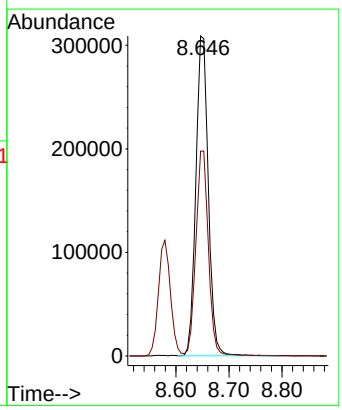
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

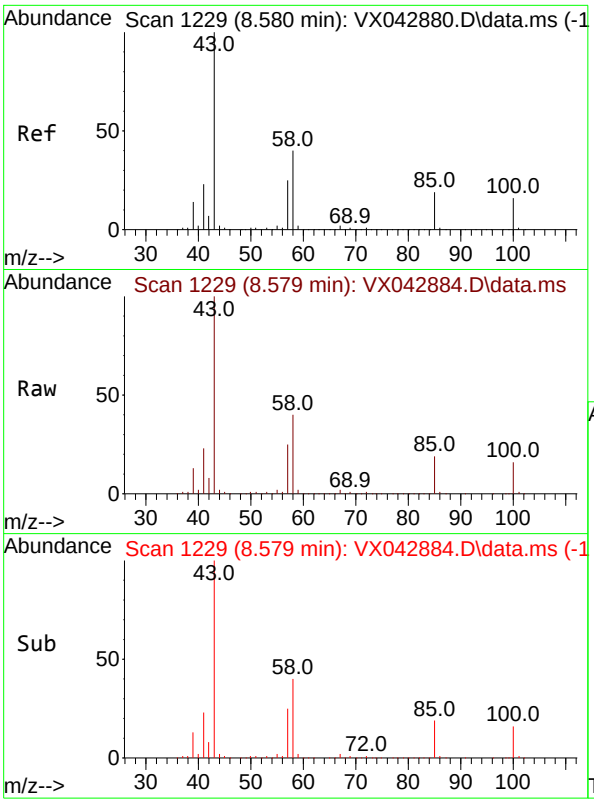


#50
Toluene-d8
Concen: 50.170 ug/l
RT: 8.646 min Scan# 1240
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 98 Resp: 504830

Ion	Ratio	Lower	Upper
98	100		
100	63.8	53.1	79.7





#51
4-Methyl-2-Pentanone
Concen: 241.464 ug/l
RT: 8.579 min Scan# 1
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

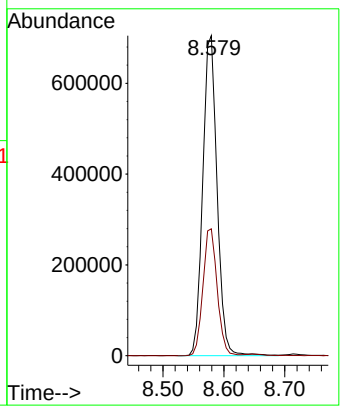
Tgt Ion: 43 Resp: 115013

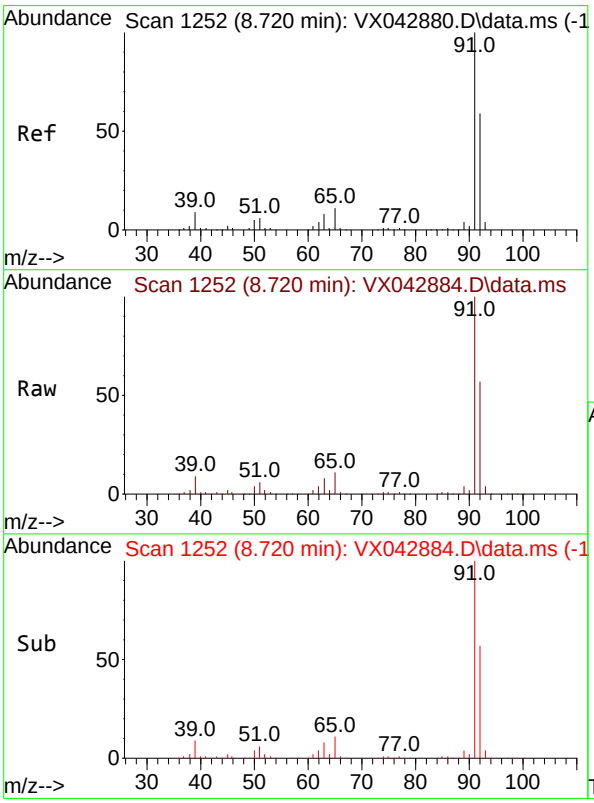
Ion	Ratio	Lower	Upper
43	100		
58	39.5	30.4	45.6

Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

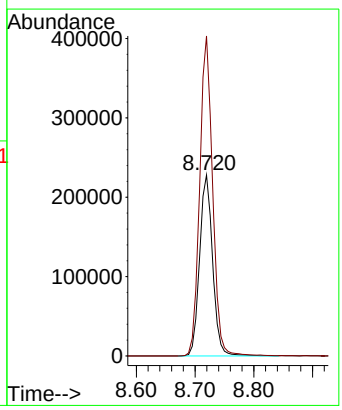


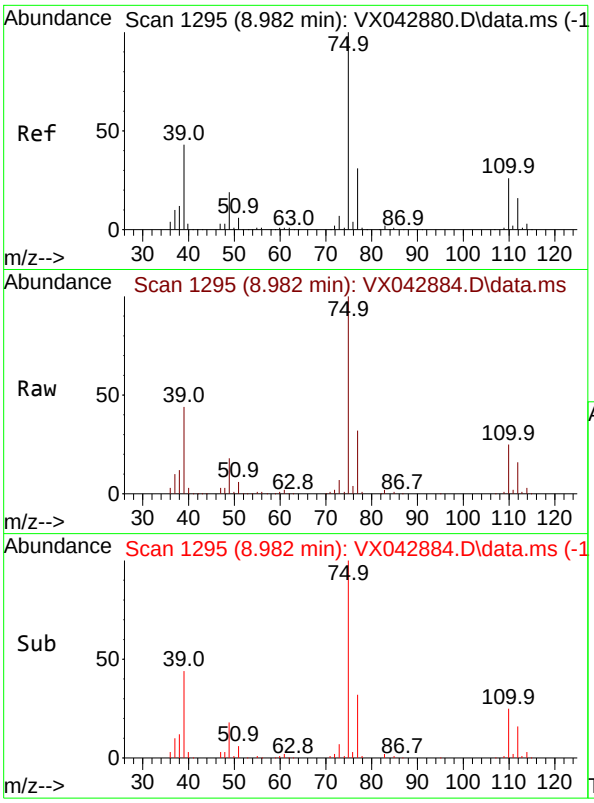


#52
Toluene
Concen: 48.559 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 92 Resp: 351310

Ion	Ratio	Lower	Upper
92	100		
91	175.7	134.2	201.2

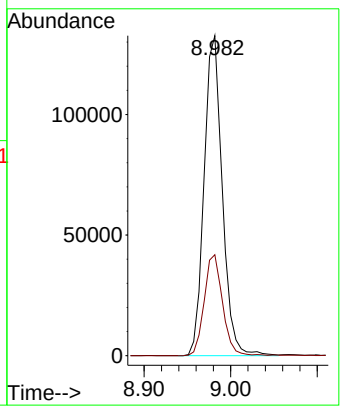




#53
t-1,3-Dichloropropene
Concen: 50.779 ug/l
RT: 8.982 min Scan# 1
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 75 Resp: 19376

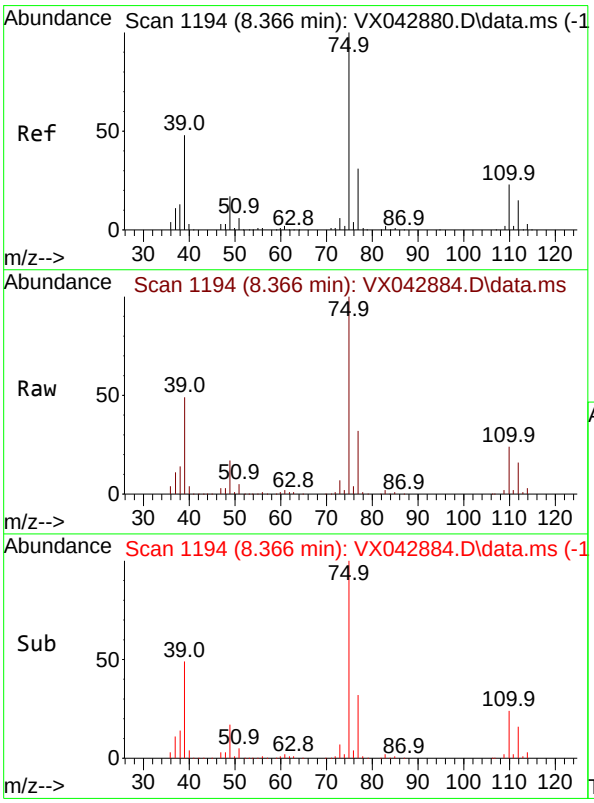
Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

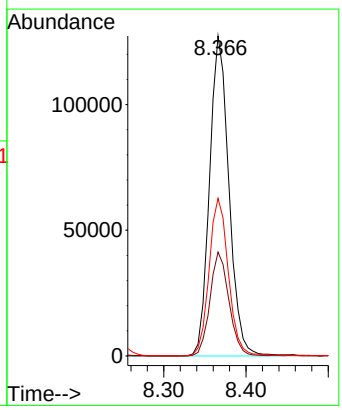
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

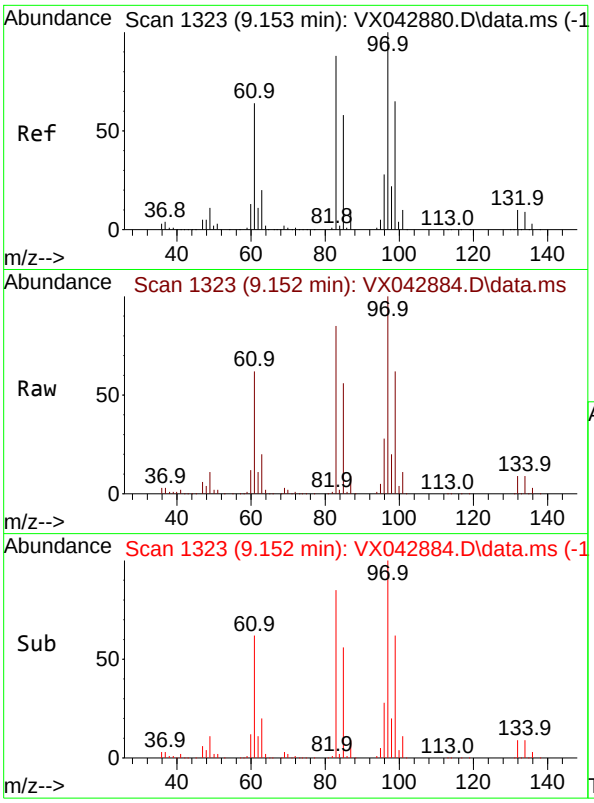


#54
cis-1,3-Dichloropropene
Concen: 49.491 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 75 Resp: 208564

Ion	Ratio	Lower	Upper
75	100		
77	32.5	25.3	37.9
39	49.2	46.7	70.1

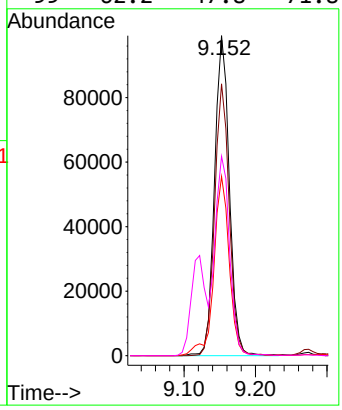




#55
1,1,2-Trichloroethane
Concen: 48.475 ug/l
RT: 9.152 min Scan# 1
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 97 Resp: 14256

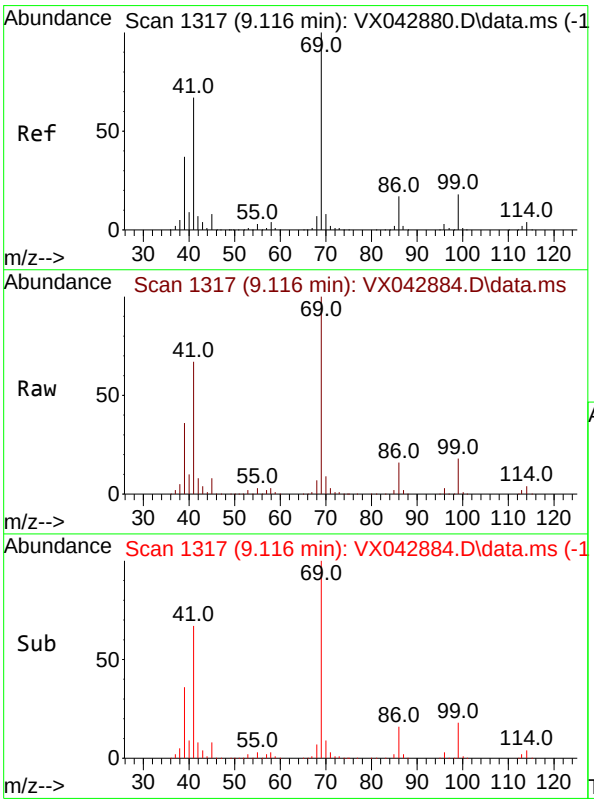
Ion	Ratio	Lower	Upper
97	100		
83	84.9	65.8	98.8
85	55.9	41.6	62.4
99	62.2	47.8	71.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

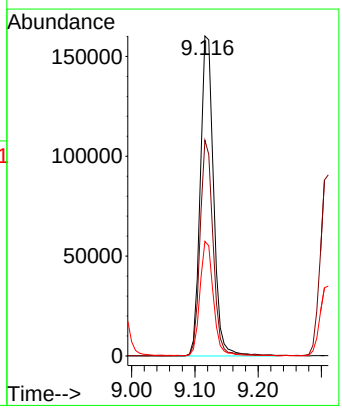
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

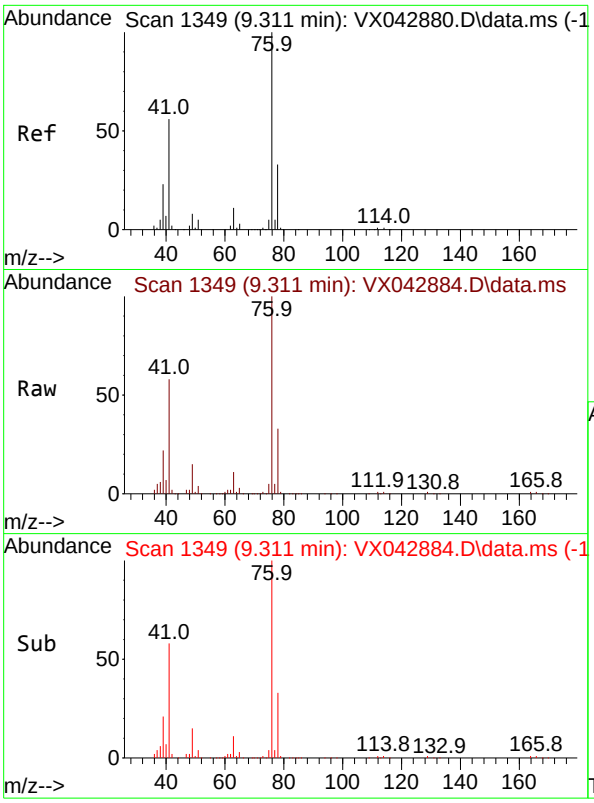


#56
Ethyl methacrylate
Concen: 49.716 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 69 Resp: 235292

Ion	Ratio	Lower	Upper
69	100		
41	66.3	56.8	85.2
39	36.2	32.0	48.0





#57
1,3-Dichloropropane
Concen: 48.297 ug/l
RT: 9.311 min Scan# 1
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

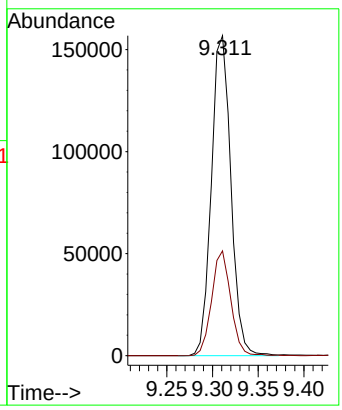
Tgt Ion: 76 Resp: 23269

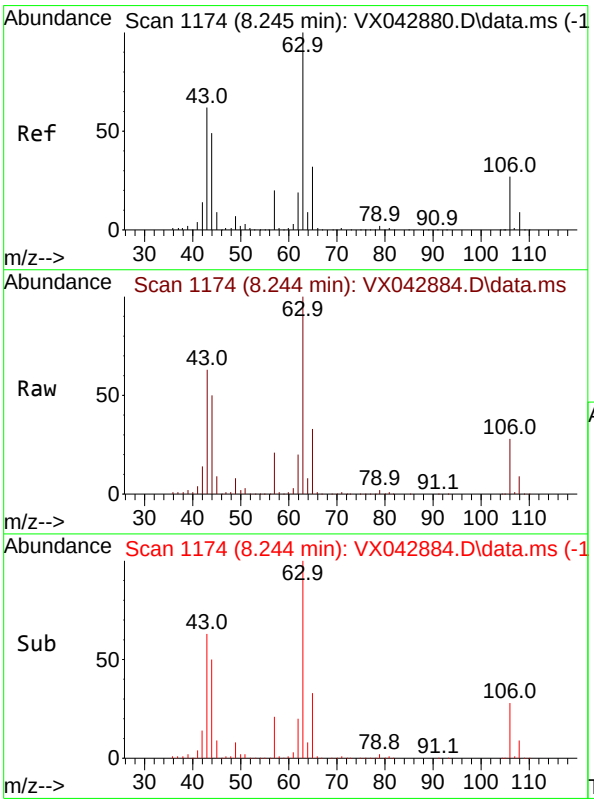
Ion	Ratio	Lower	Upper
76	100		
78	32.1	26.1	39.1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

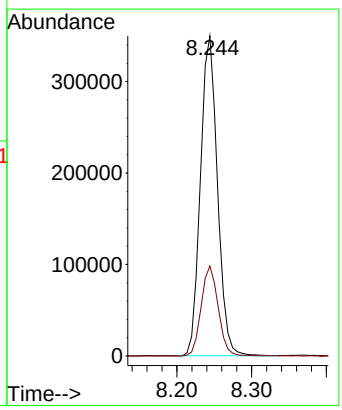


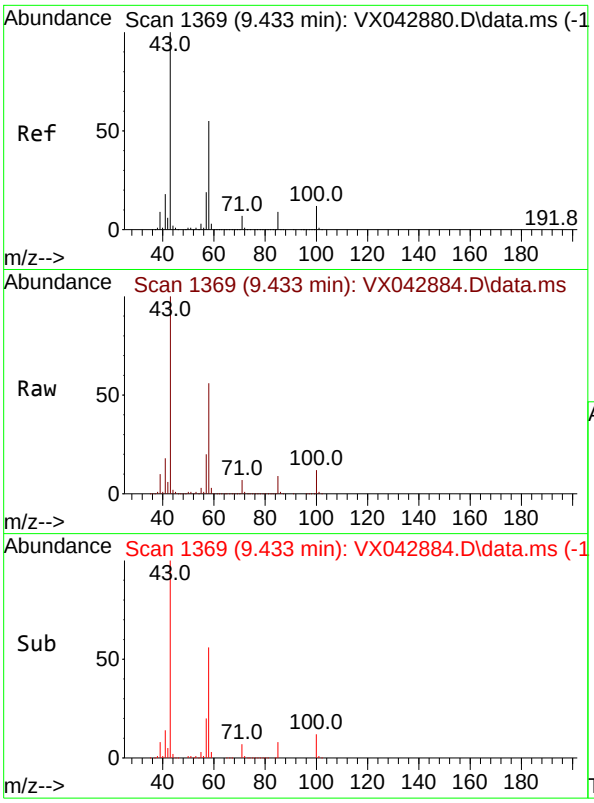


#58
2-Chloroethyl Vinyl ether
Concen: 248.307 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 63 Resp: 553871

Ion	Ratio	Lower	Upper
63	100		
106	28.0	22.5	33.7





#59
2-Hexanone
Concen: 241.460 ug/l
RT: 9.433 min Scan# 1
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

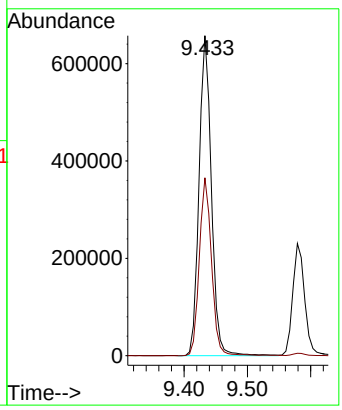
Tgt Ion: 43 Resp: 89119

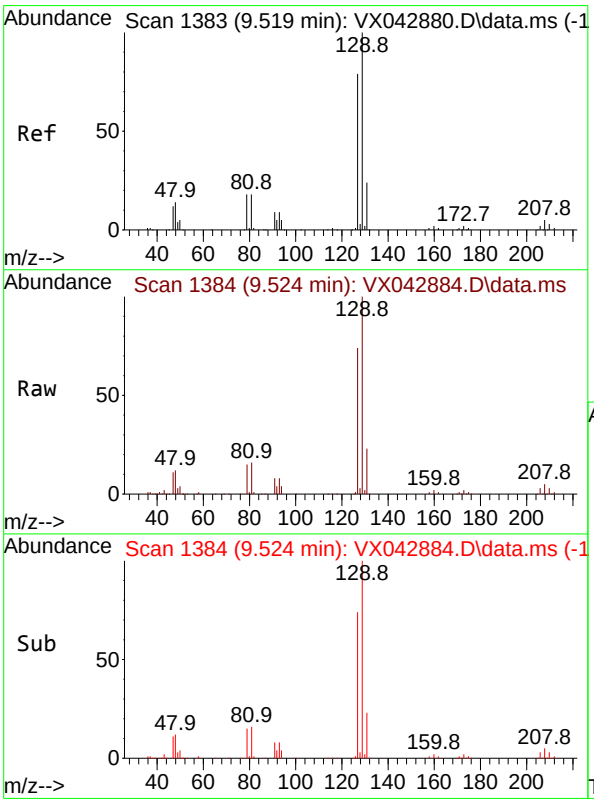
Ion	Ratio	Lower	Upper
43	100		
58	55.0	26.2	78.5

Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

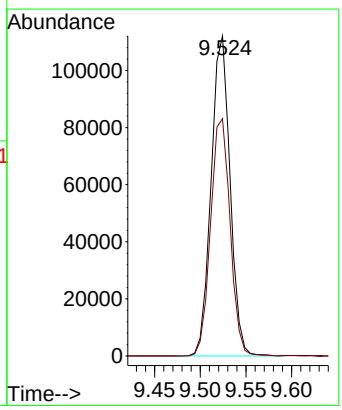


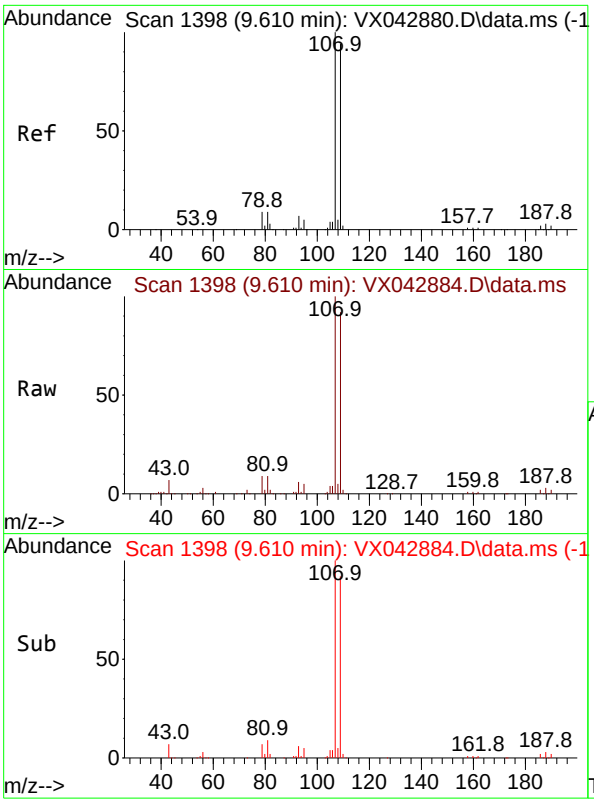


#60
Dibromochloromethane
Concen: 49.936 ug/l
RT: 9.524 min Scan# 1384
Delta R.T. 0.006 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion:129 Resp: 161337

Ion	Ratio	Lower	Upper
129	100		
127	76.6	38.8	116.4





#61
1,2-Dibromoethane
Concen: 48.666 ug/l
RT: 9.610 min Scan# 1
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

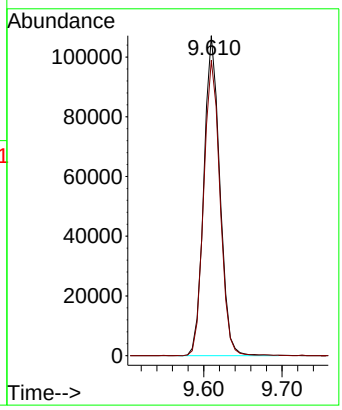
Tgt Ion:107 Resp: 15122

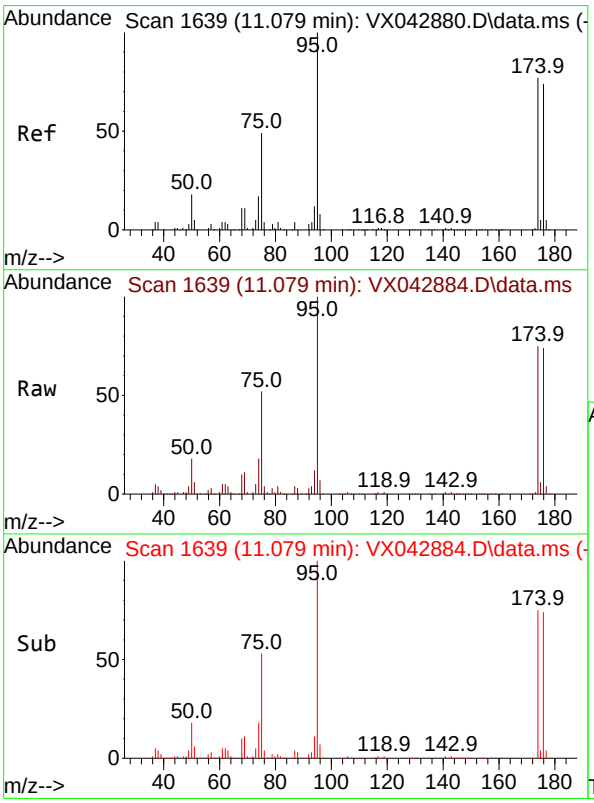
Ion	Ratio	Lower	Upper
107	100		
109	93.9	75.2	112.8

Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

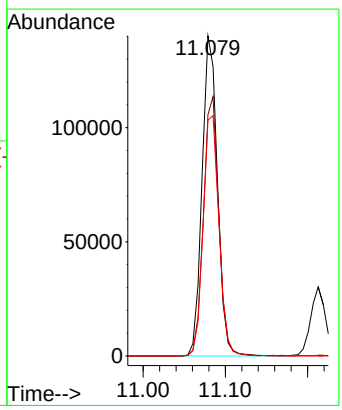


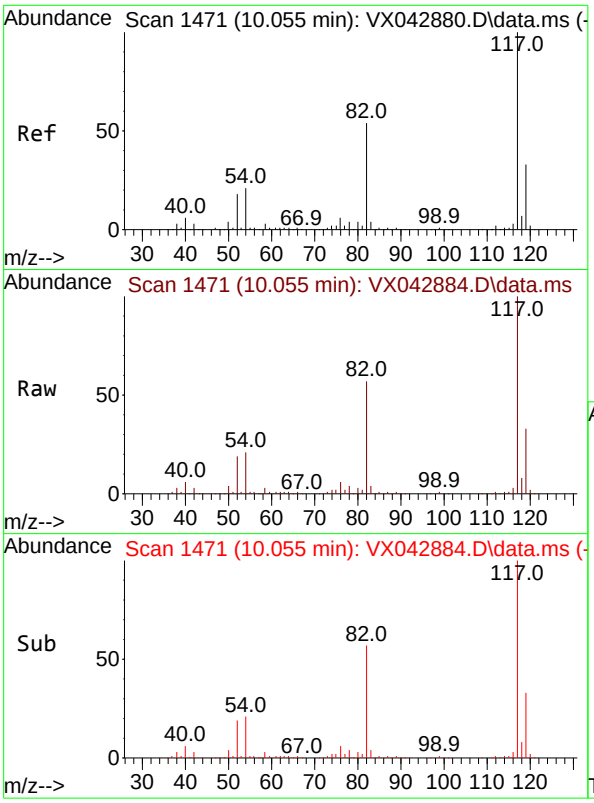


#62
4-Bromofluorobenzene
Concen: 50.422 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 95 Resp: 182322

Ion	Ratio	Lower	Upper
95	100		
174	80.7	0.0	135.6
176	77.3	0.0	131.0

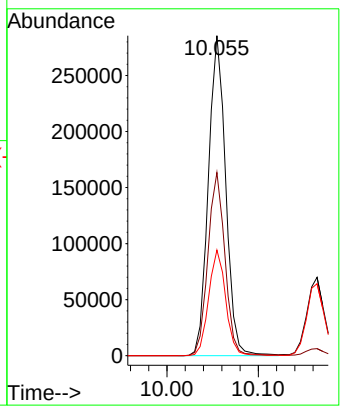




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion:117 Resp: 37508

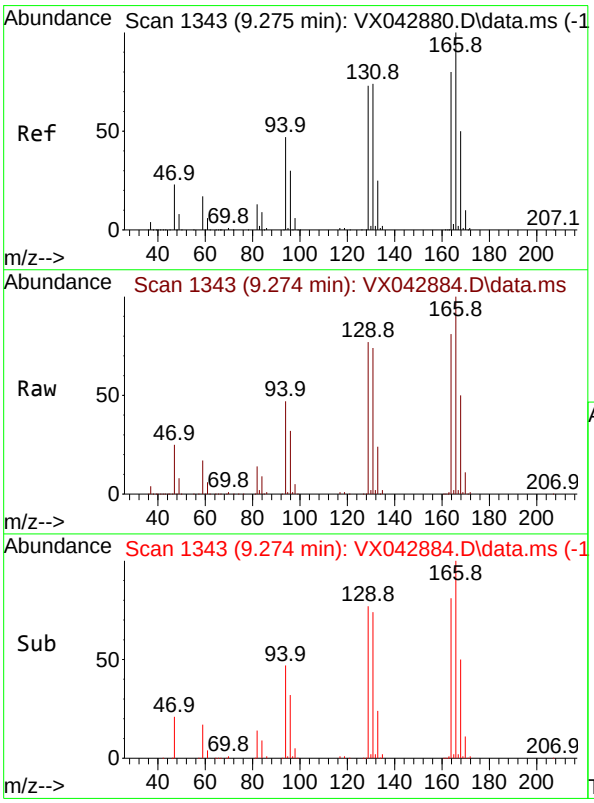
Ion	Ratio	Lower	Upper
117	100		
82	57.2	46.2	69.4
119	33.0	25.5	38.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

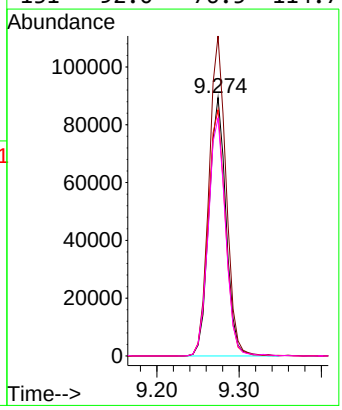
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

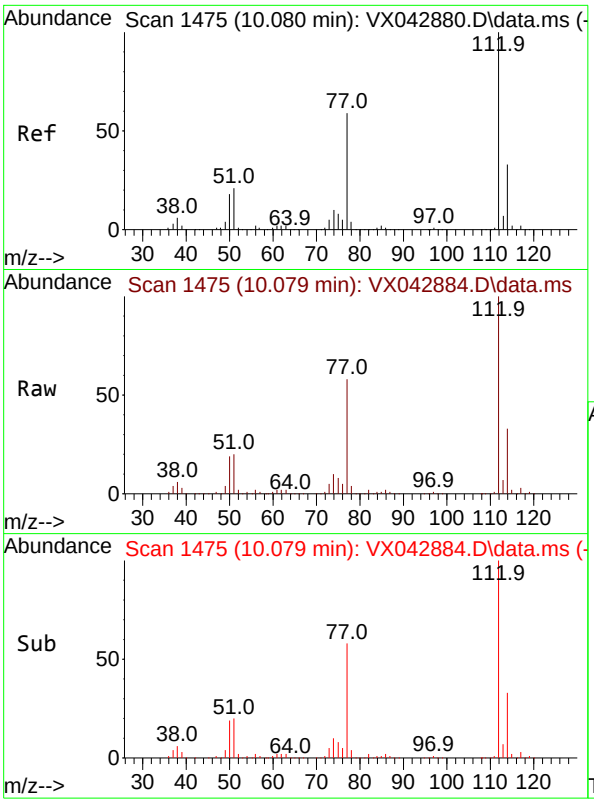


#64
Tetrachloroethene
Concen: 49.075 ug/l
RT: 9.274 min Scan# 1343
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion:164 Resp: 127985

Ion	Ratio	Lower	Upper
164	100		
166	123.8	102.7	154.1
129	95.2	80.4	120.6
131	92.0	76.5	114.7





#65
Chlorobenzene
Concen: 48.096 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

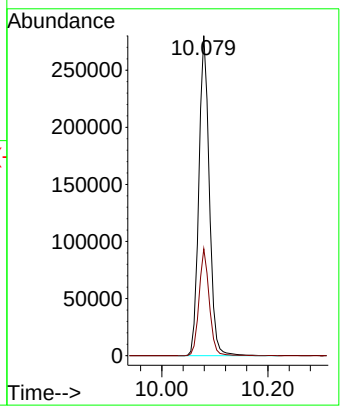
Tgt Ion:112 Resp: 38281

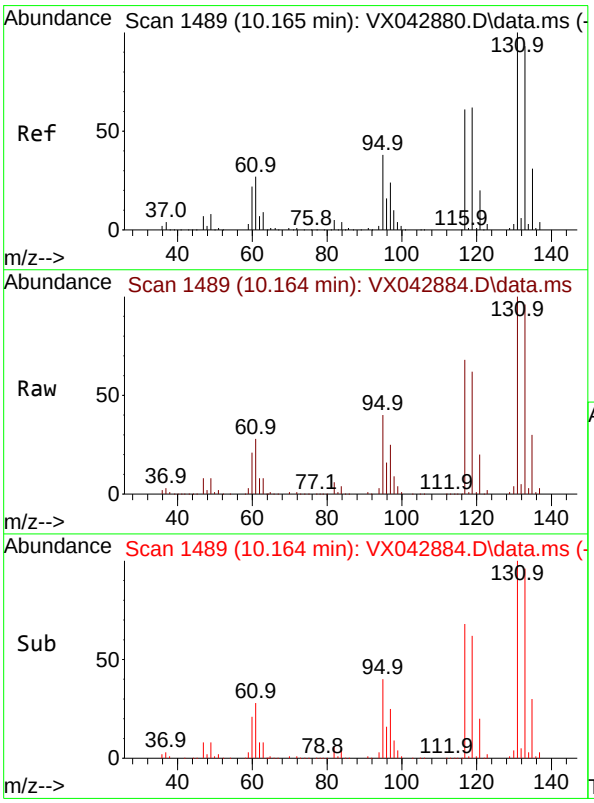
Ion	Ratio	Lower	Upper
112	100		
114	33.4	25.7	38.5

Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

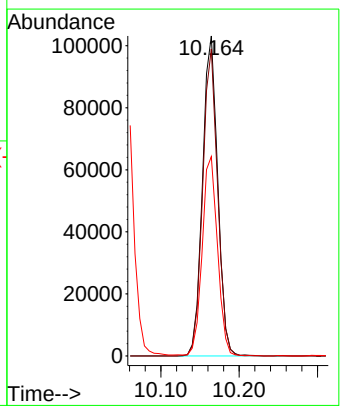


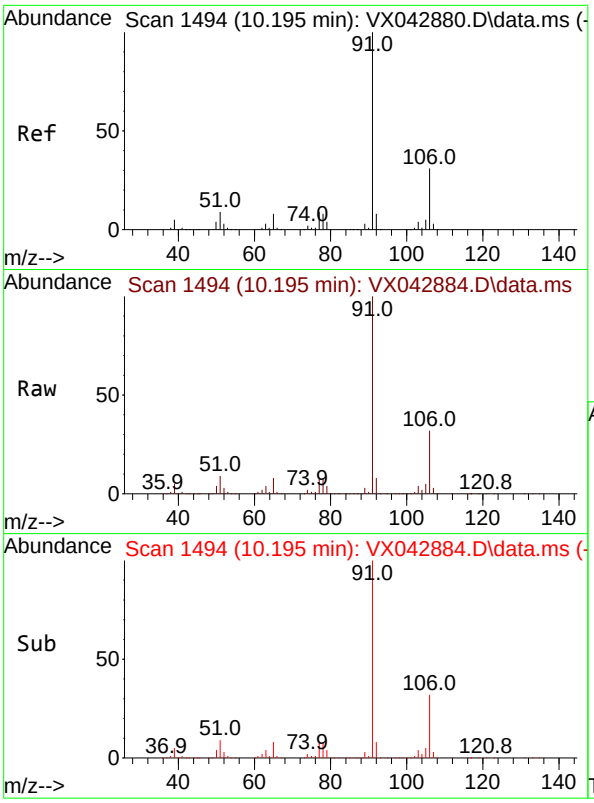


#66
1,1,1,2-Tetrachloroethane
Concen: 50.446 ug/l
RT: 10.164 min Scan# 1489
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion:131 Resp: 138449

Ion	Ratio	Lower	Upper
131	100		
133	94.8	47.1	141.4
119	62.9	32.2	96.6





#67
Ethyl Benzene
Concen: 50.364 ug/l
RT: 10.195 min Scan# 14
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

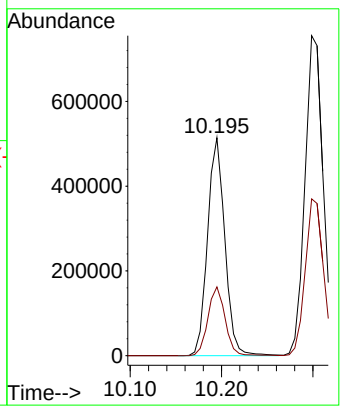
Tgt Ion: 91 Resp: 67429

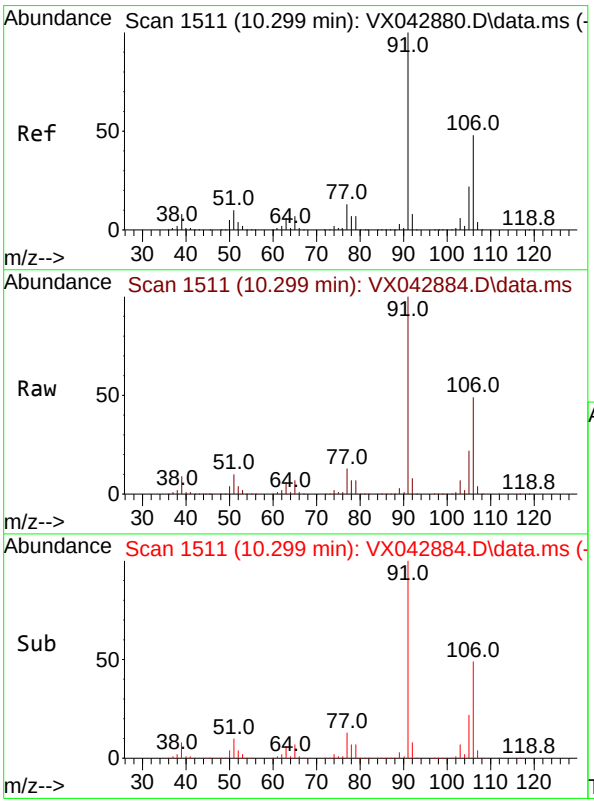
Ion	Ratio	Lower	Upper
91	100		
106	31.6	24.9	37.3

Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

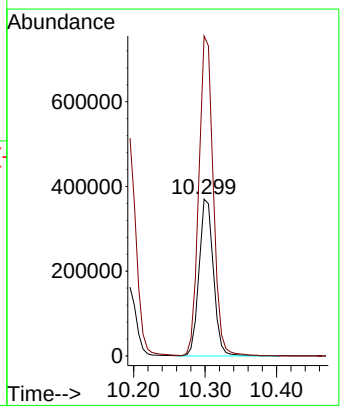


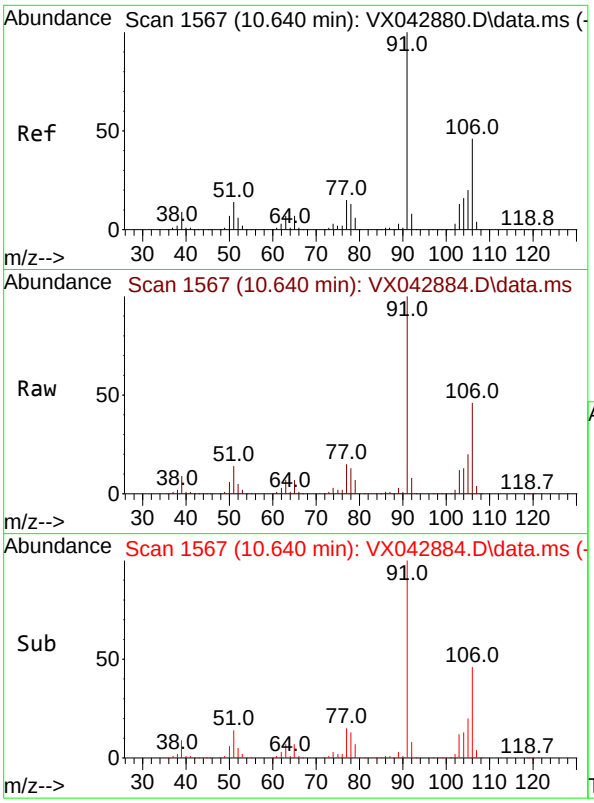


#68
m/p-Xylenes
Concen: 101.217 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion:106 Resp: 517328

Ion	Ratio	Lower	Upper
106	100		
91	204.4	165.5	248.3

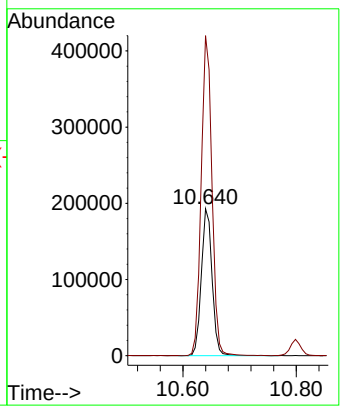




#69
o-Xylene
Concen: 49.580 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion:106 Resp: 25385

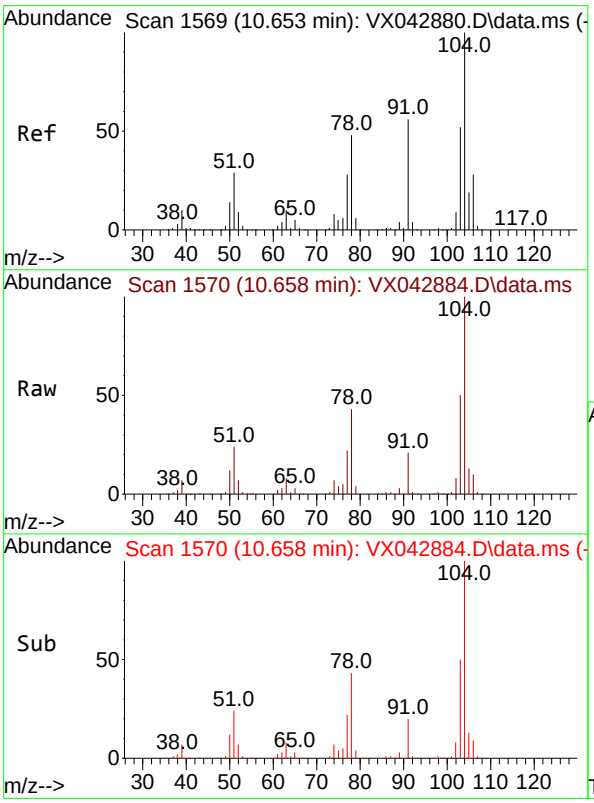
Ion	Ratio	Lower	Upper
106	100		
91	218.0	108.9	326.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

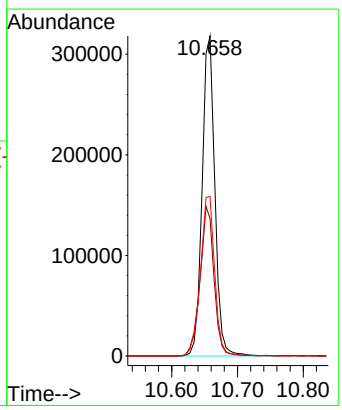
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

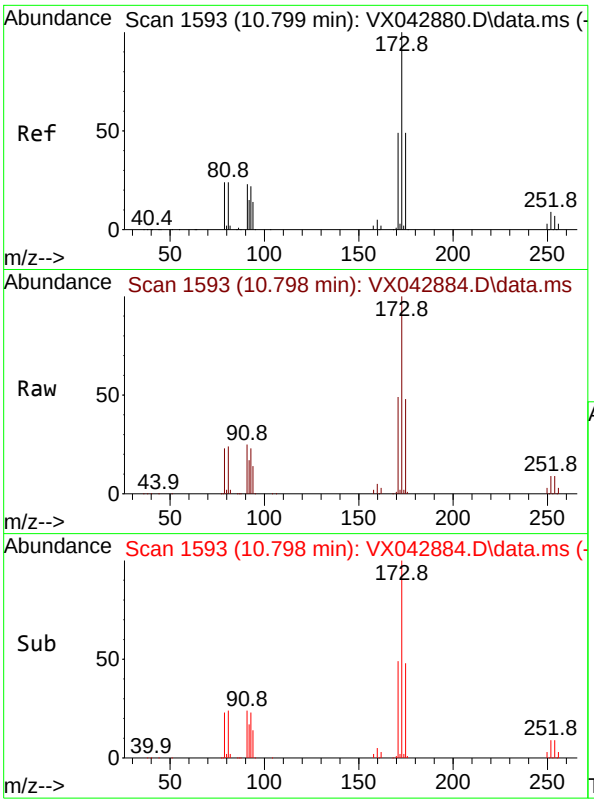


#70
Styrene
Concen: 52.013 ug/l
RT: 10.658 min Scan# 1570
Delta R.T. 0.006 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion:104 Resp: 428234

Ion	Ratio	Lower	Upper
104	100		
78	51.4	43.6	65.4
103	56.2	43.6	65.4

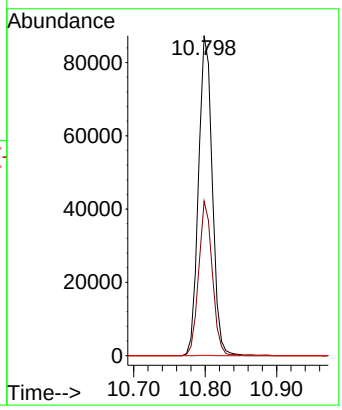




#71
Bromoform
Concen: 50.168 ug/l
RT: 10.798 min Scan# 1
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion:173 Resp: 11671

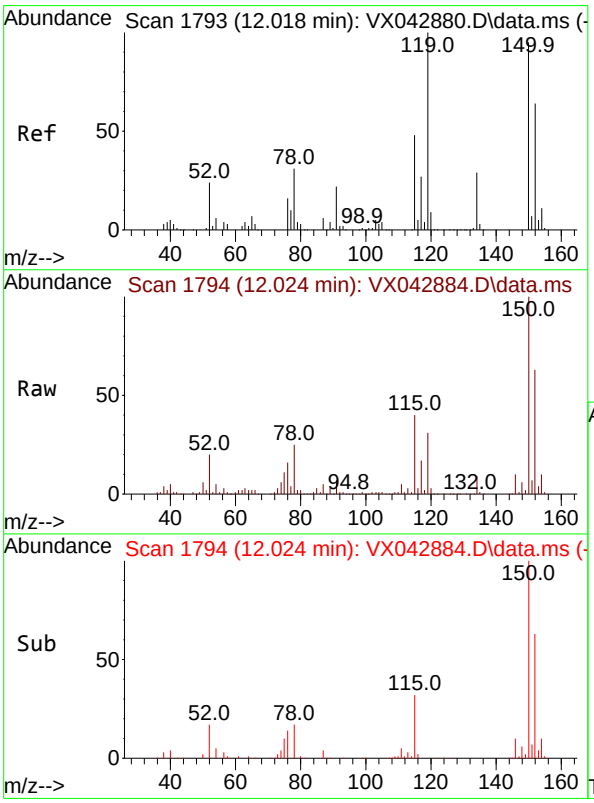
Ion	Ratio	Lower	Upper
173	100		
175	47.7	24.1	72.4
254	0.1	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

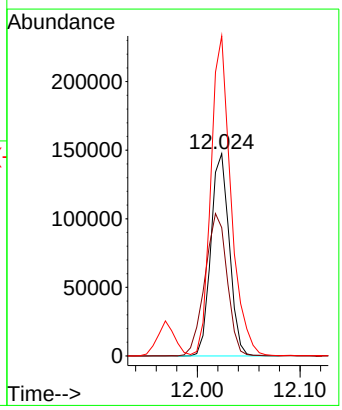
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

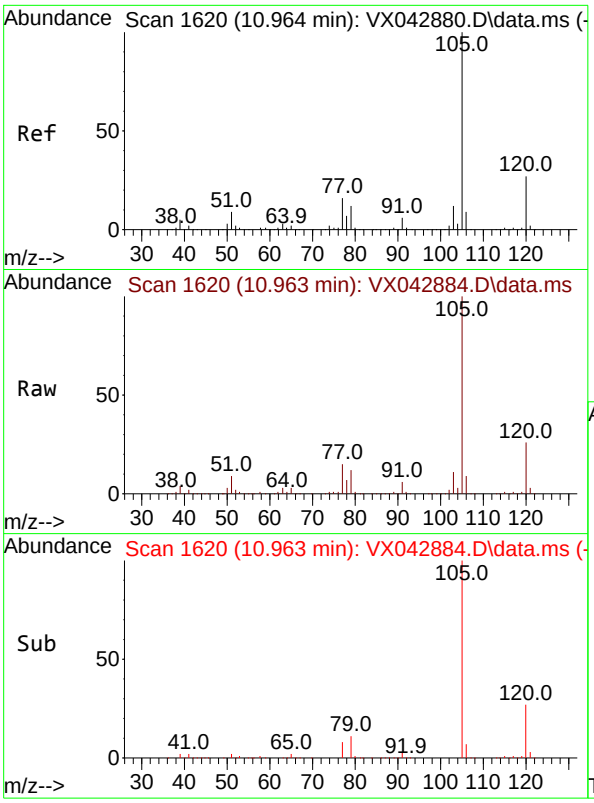


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion:152 Resp: 184018

Ion	Ratio	Lower	Upper
152	100		
115	85.1	43.3	129.9
150	171.8	0.0	345.0





#73
Isopropylbenzene
Concen: 49.532 ug/l
RT: 10.963 min Scan# 1
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

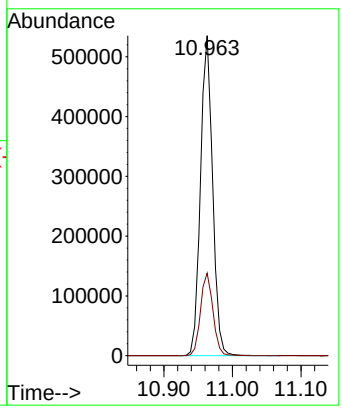
Tgt Ion:105 Resp: 65899

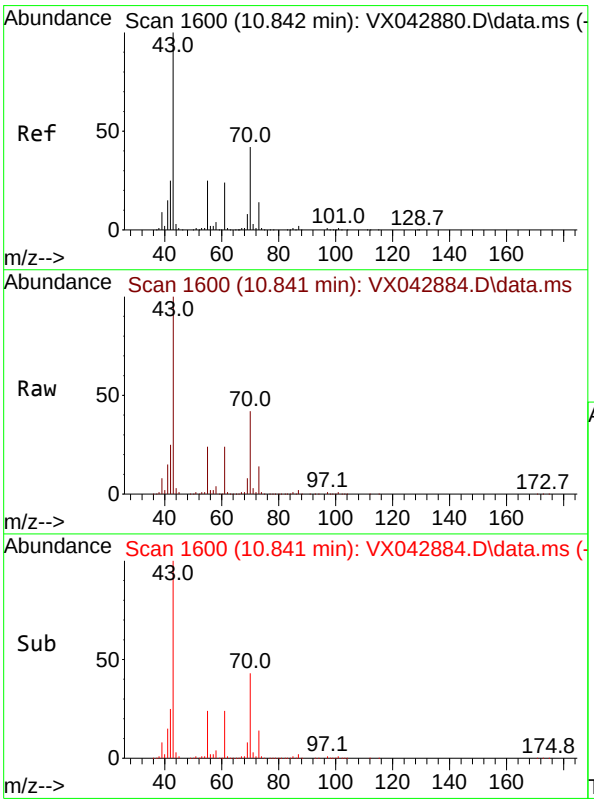
Ion	Ratio	Lower	Upper
105	100		
120	26.5	12.9	38.6

Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

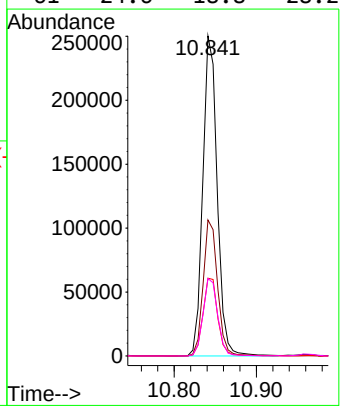


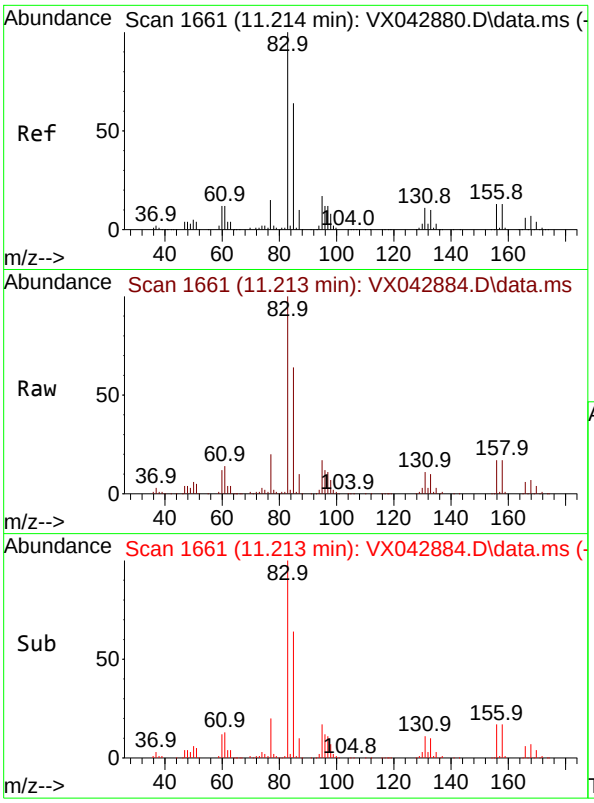


#74
N-amyl acetate
Concen: 50.840 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 43 Resp: 304347

Ion	Ratio	Lower	Upper
43	100		
70	42.6	32.9	49.3
55	25.0	19.3	28.9
61	24.6	18.8	28.2





#75
1,1,2,2-Tetrachloroethane
Concen: 46.386 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

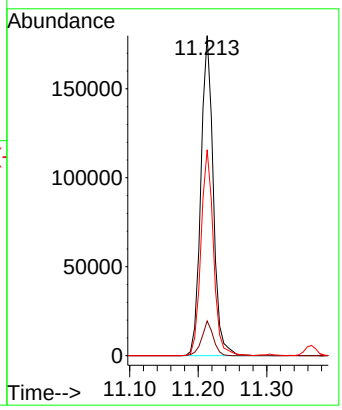
Tgt Ion: 83 Resp: 22607

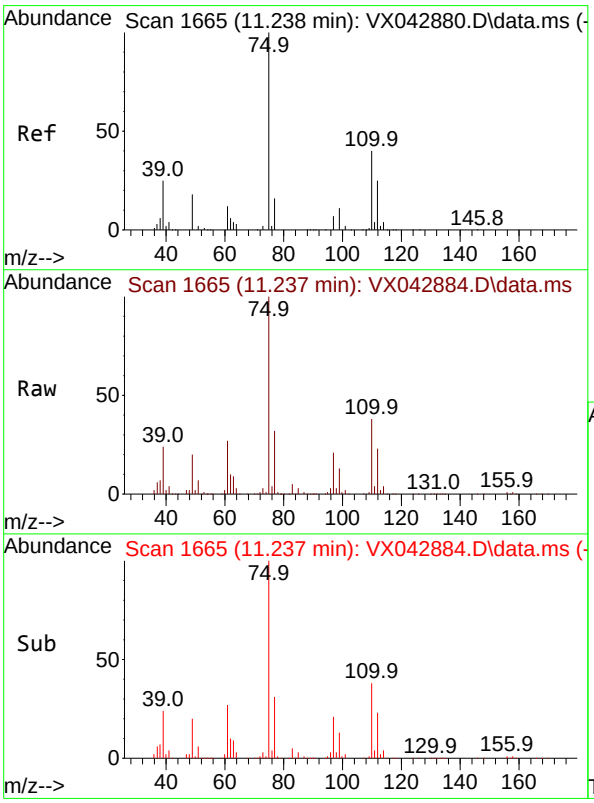
Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.3	15.8
85	64.8	32.0	96.2

Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

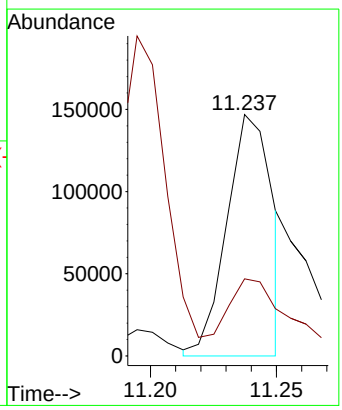


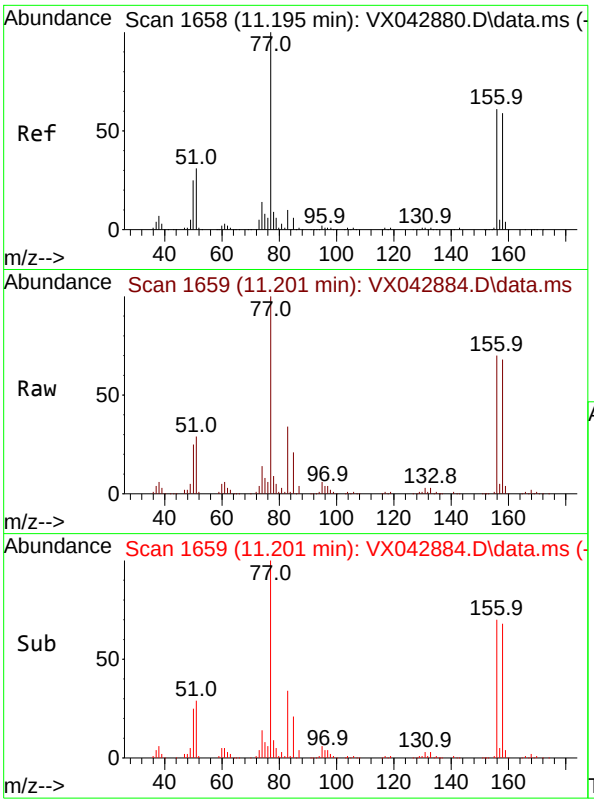


#76
1,2,3-Trichloropropane
Concen: 44.439 ug/l m
RT: 11.237 min Scan# 1665
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 75 Resp: 183912

Ion	Ratio	Lower	Upper
75	100		
77	44.4	19.1	57.5





#77
Bromobenzene
Concen: 48.834 ug/l
RT: 11.201 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

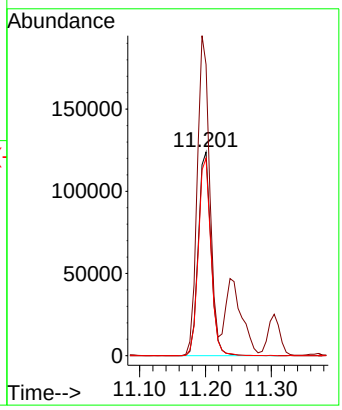
Tgt Ion:156 Resp: 16527(

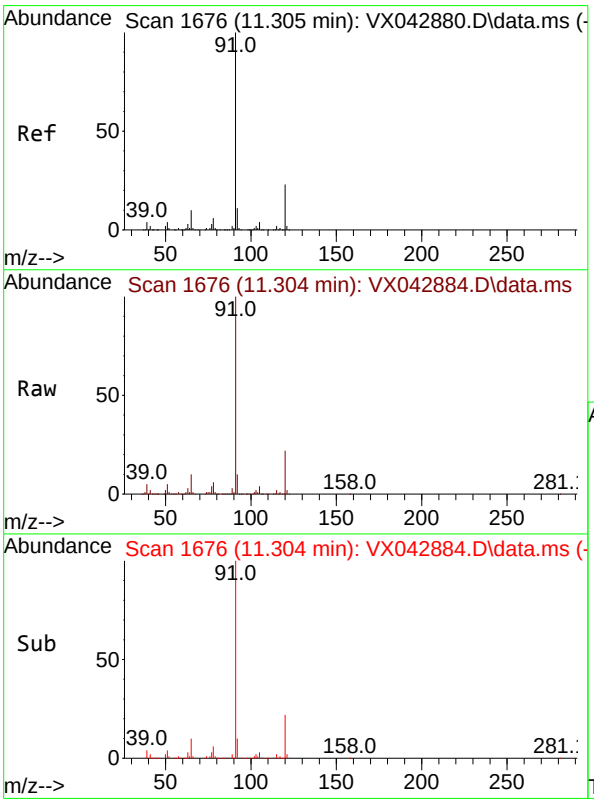
Ion	Ratio	Lower	Upper
156	100		
77	153.8	88.4	265.3
158	96.9	48.0	144.0

Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

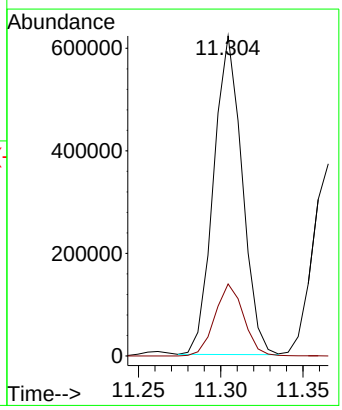


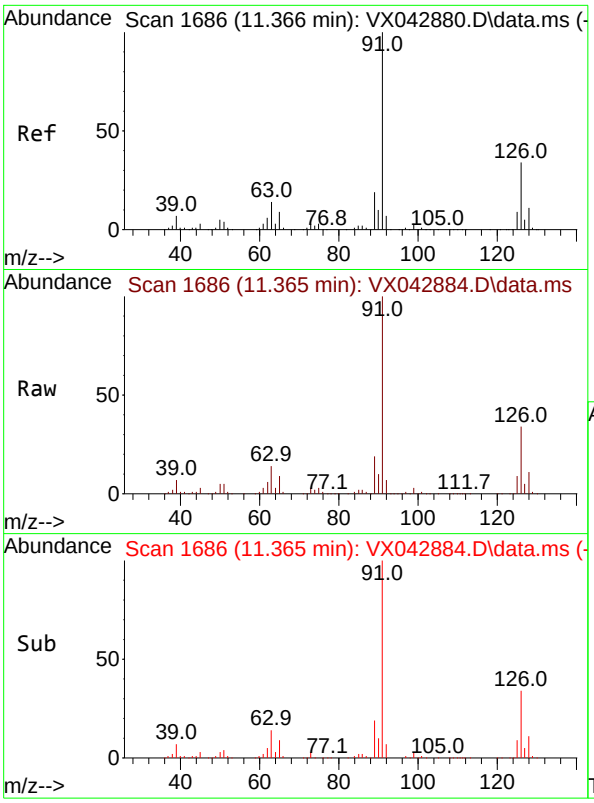


#78
n-propylbenzene
Concen: 50.805 ug/l
RT: 11.304 min Scan# 1676
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 91 Resp: 750817

Ion	Ratio	Lower	Upper
91	100		
120	22.8	11.5	34.4





#79
2-Chlorotoluene
Concen: 48.358 ug/l
RT: 11.365 min Scan# 1
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

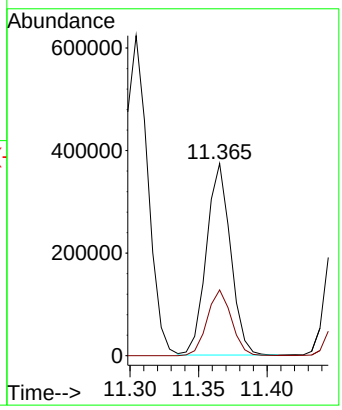
Tgt Ion: 91 Resp: 45805

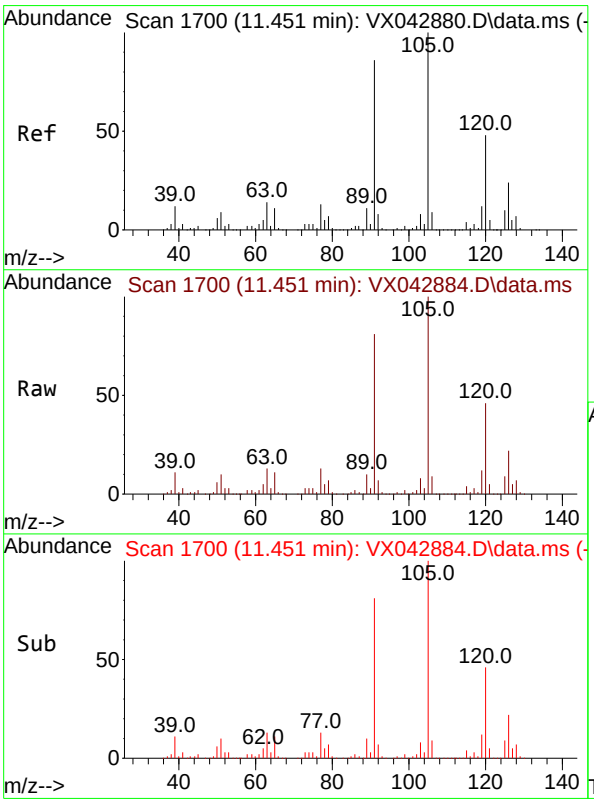
Ion	Ratio	Lower	Upper
91	100		
126	34.6	16.3	48.8

Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

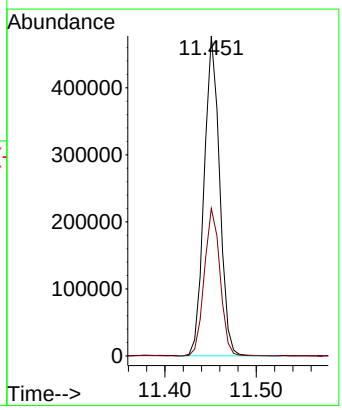


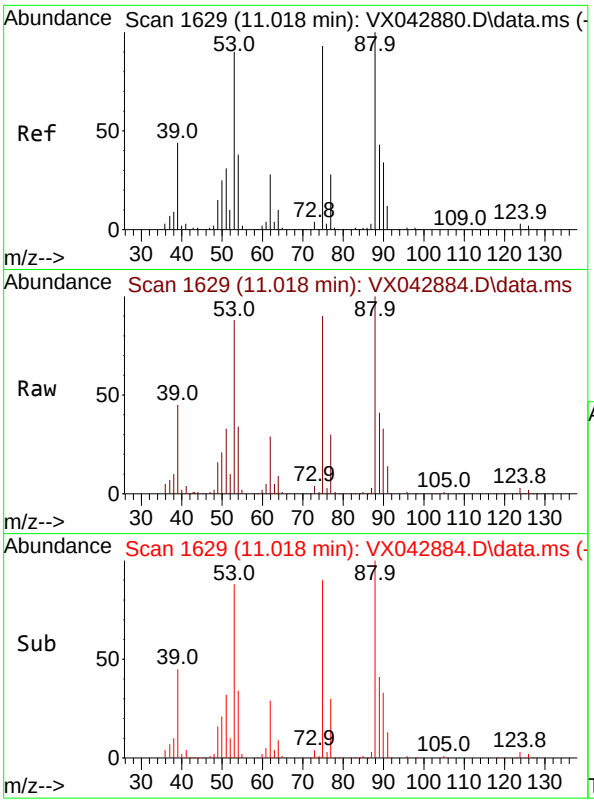


#80
1,3,5-Trimethylbenzene
Concen: 50.660 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion:105 Resp: 558080

Ion	Ratio	Lower	Upper
105	100		
120	46.9	24.1	72.3





#81
trans-1,4-Dichloro-2-butene
Concen: 51.226 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

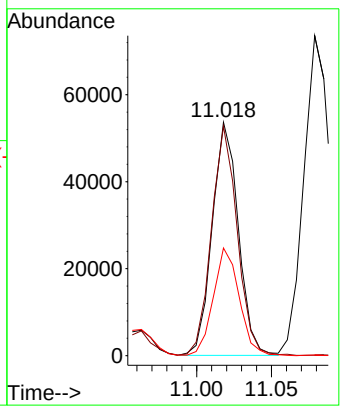
Tgt Ion: 75 Resp: 6520

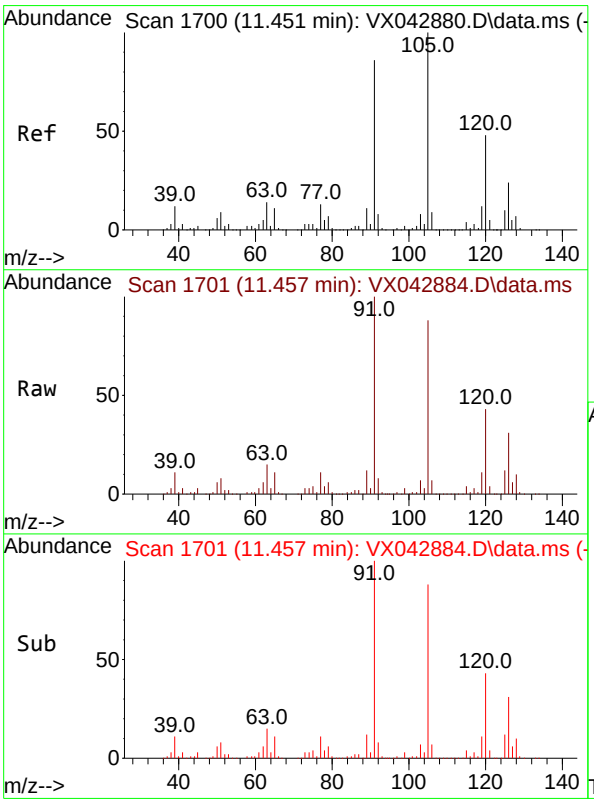
Ion	Ratio	Lower	Upper
75	100		
53	97.0	90.5	135.7
89	45.9	36.9	55.3

Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

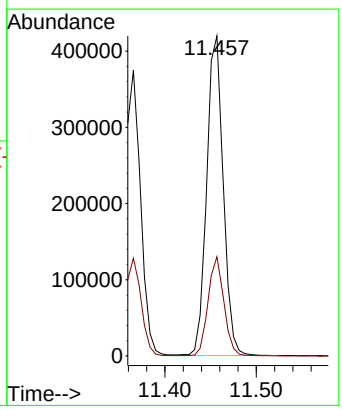


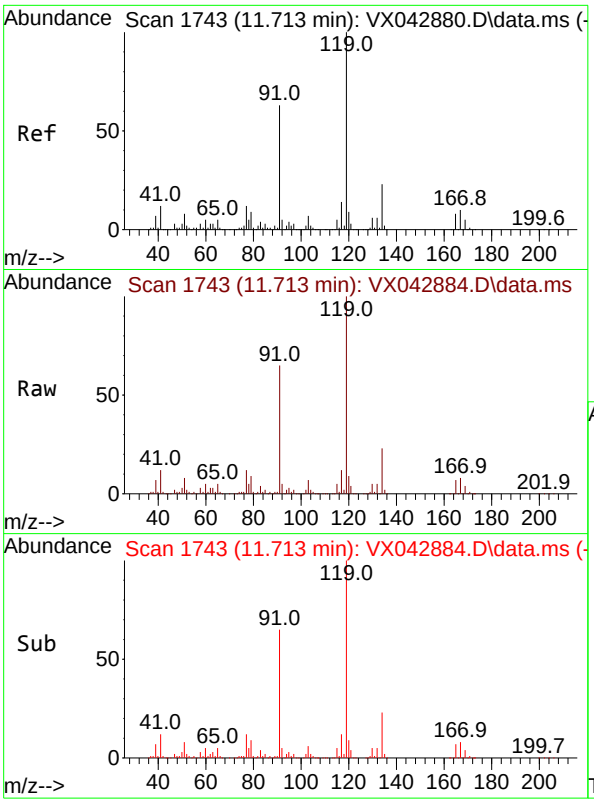


#82
4-Chlorotoluene
Concen: 49.302 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 91 Resp: 524899

Ion	Ratio	Lower	Upper
91	100		
126	29.8	14.2	42.6

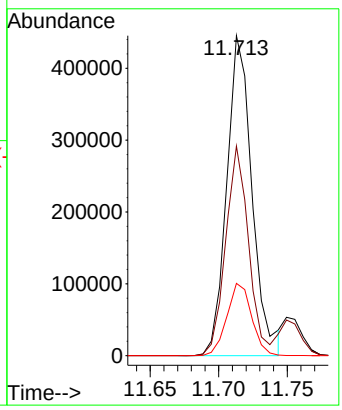




#83
tert-Butylbenzene
Concen: 50.556 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion:119 Resp: 57234

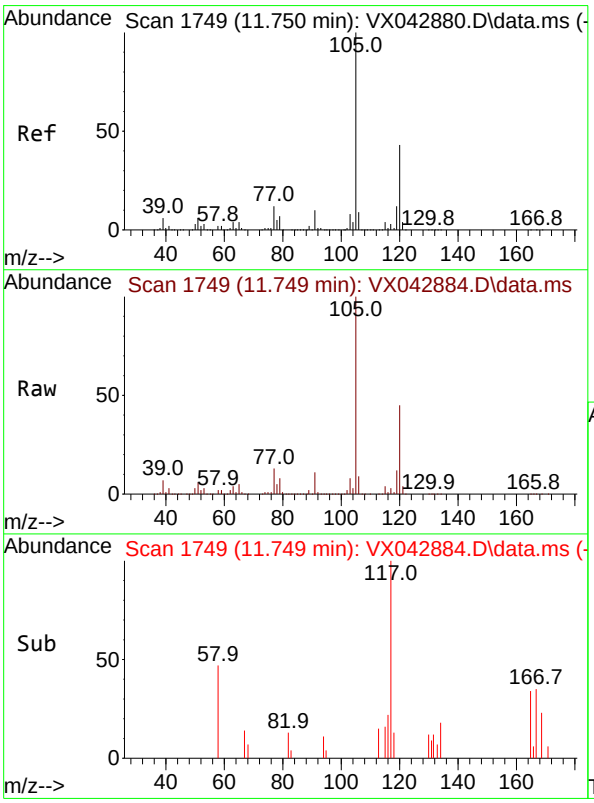
Ion	Ratio	Lower	Upper
119	100		
91	59.3	31.2	93.6
134	22.2	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

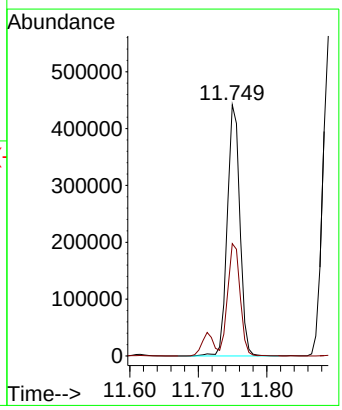
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

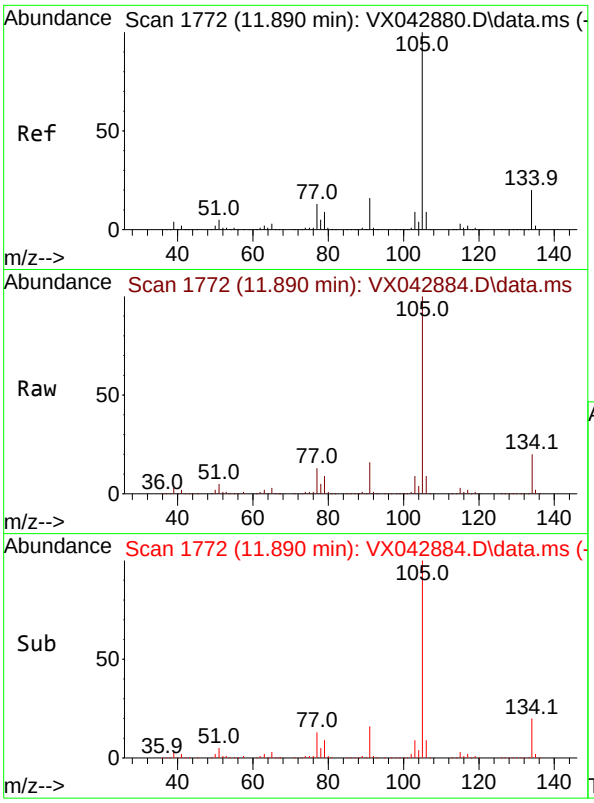


#84
1,2,4-Trimethylbenzene
Concen: 50.507 ug/l
RT: 11.749 min Scan# 1749
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion:105 Resp: 560136

Ion	Ratio	Lower	Upper
105	100		
120	44.3	21.2	63.6





#85
sec-Butylbenzene
Concen: 50.961 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

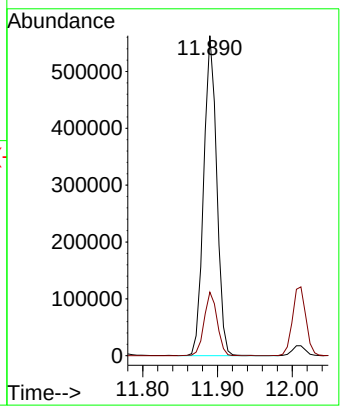
Tgt Ion:105 Resp: 67935

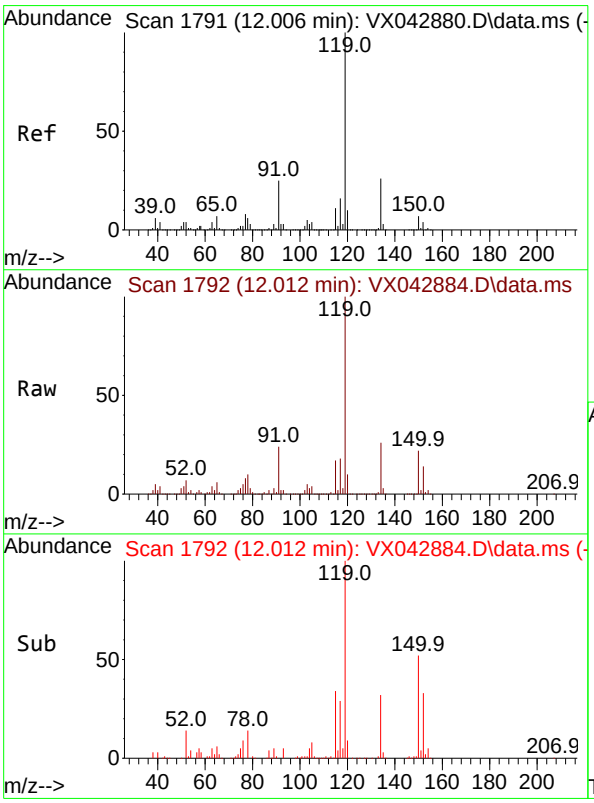
Ion	Ratio	Lower	Upper
105	100		
134	19.9	9.8	29.4

Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

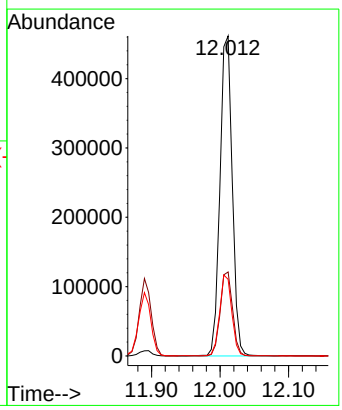


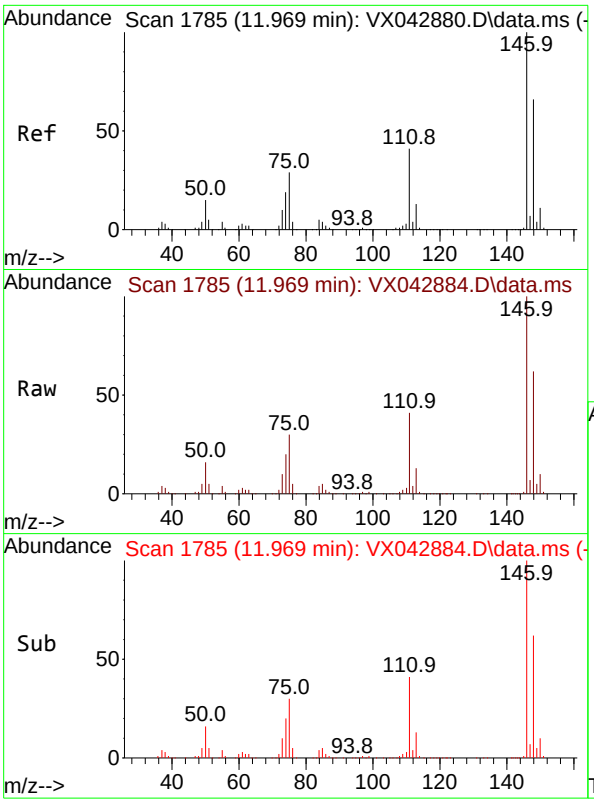


#86
p-Isopropyltoluene
Concen: 51.567 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion:119 Resp: 571128

Ion	Ratio	Lower	Upper
119	100		
134	26.6	12.8	38.3
91	24.8	13.1	39.3

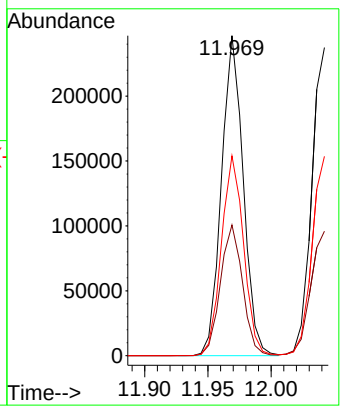




#87
1,3-Dichlorobenzene
Concen: 48.090 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion:146 Resp: 29454

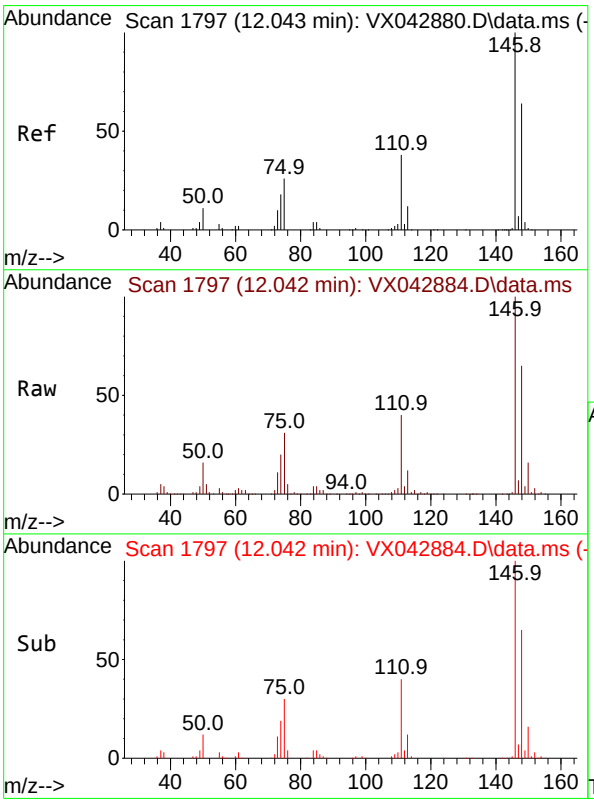
Ion	Ratio	Lower	Upper
146	100		
111	41.7	22.1	66.1
148	63.8	31.8	95.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

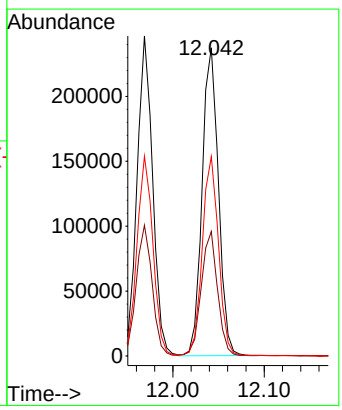
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

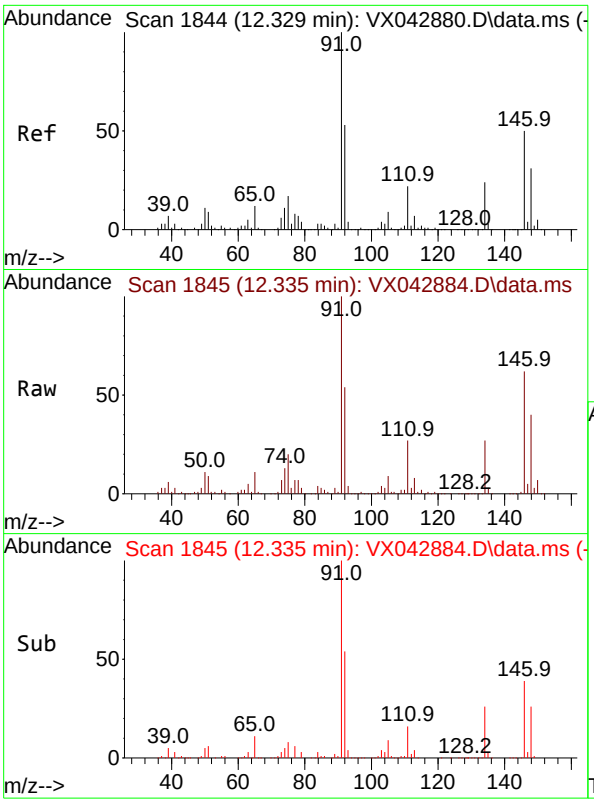


#88
1,4-Dichlorobenzene
Concen: 46.754 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion:146 Resp: 293515

Ion	Ratio	Lower	Upper
146	100		
111	40.4	21.3	63.7
148	64.3	31.8	95.4

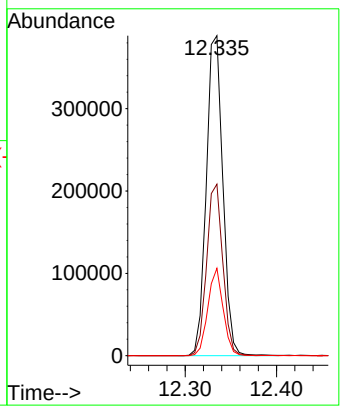




#89
n-Butylbenzene
Concen: 50.942 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 91 Resp: 48673

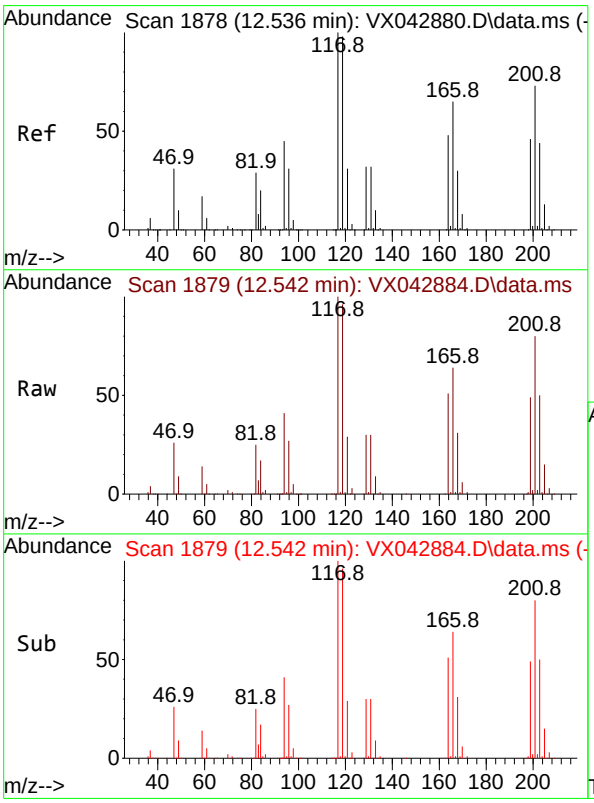
Ion	Ratio	Lower	Upper
91	100		
92	52.7	27.4	82.0
134	25.3	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

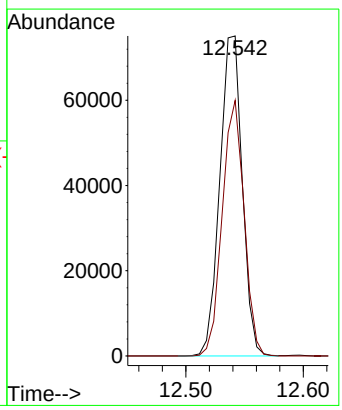
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

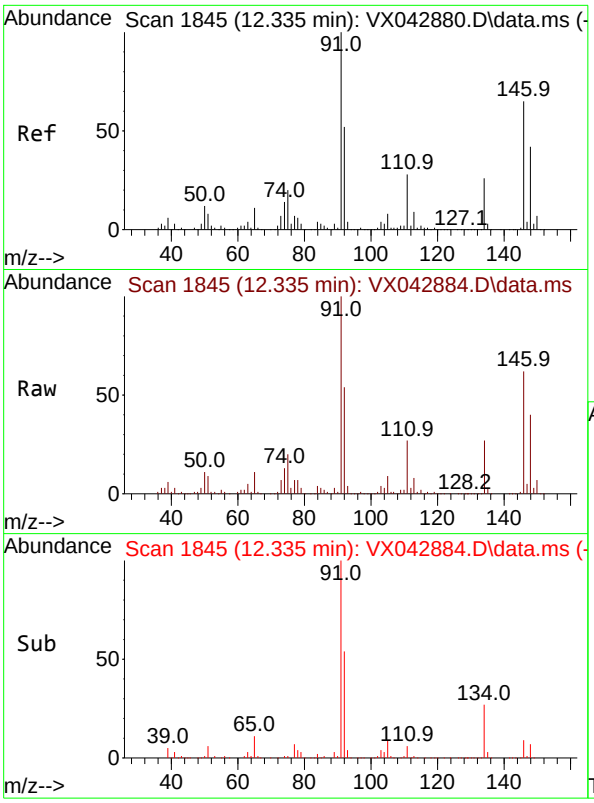


#90
Hexachloroethane
Concen: 49.328 ug/l
RT: 12.542 min Scan# 1879
Delta R.T. 0.006 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion:117 Resp: 99937

Ion	Ratio	Lower	Upper
117	100		
201	77.5	32.9	98.6

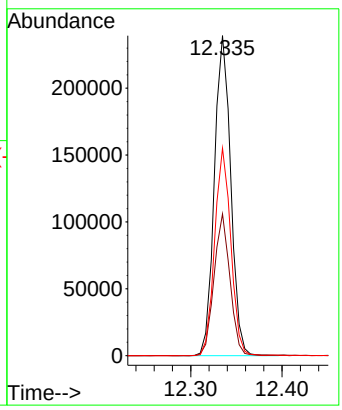




#91
1,2-Dichlorobenzene
Concen: 48.586 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion:146 Resp: 29799

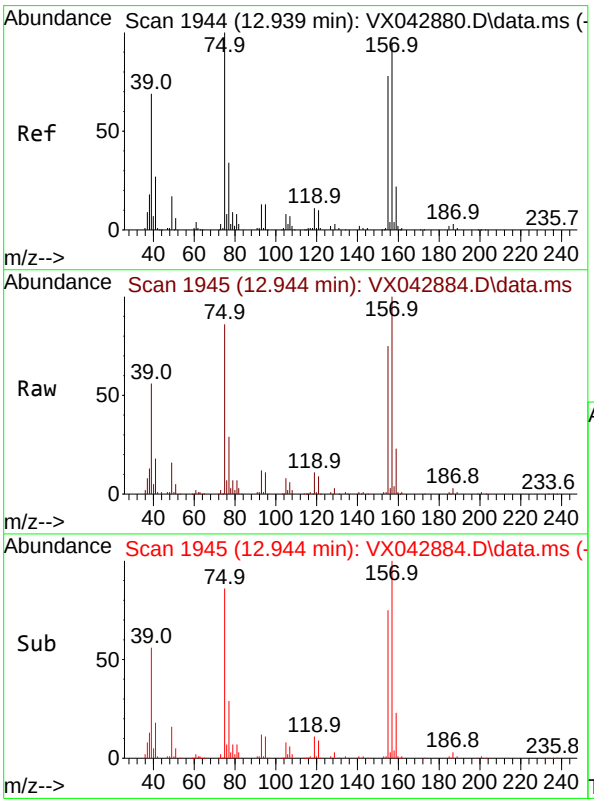
Ion	Ratio	Lower	Upper
146	100		
111	43.0	22.4	67.0
148	64.0	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

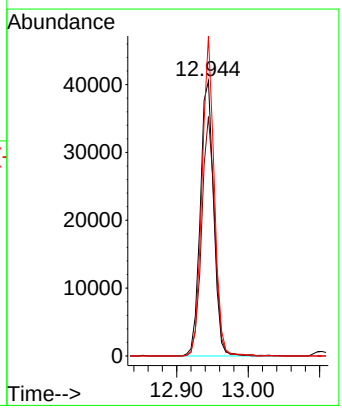
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

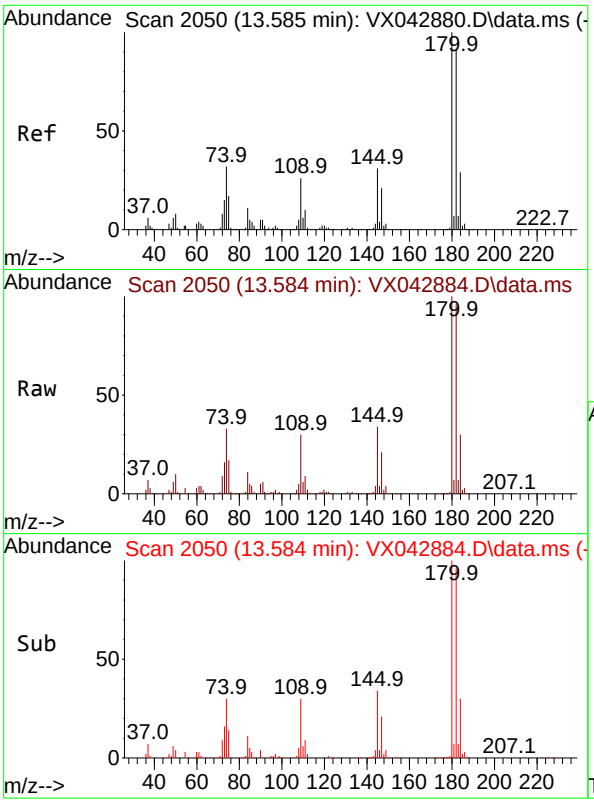


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.157 ug/l
RT: 12.944 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion: 75 Resp: 52644

Ion	Ratio	Lower	Upper
75	100		
155	84.8	36.1	108.5
157	106.4	44.9	134.7





#93
1,2,4-Trichlorobenzene
Concen: 48.433 ug/l
RT: 13.584 min Scan# 2
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

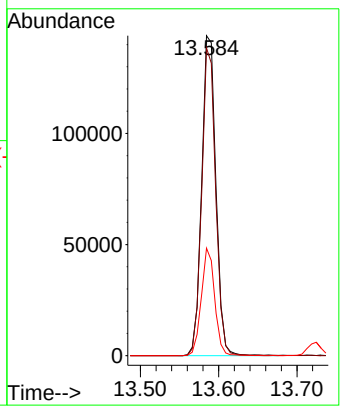
Tgt Ion:180 Resp: 18119

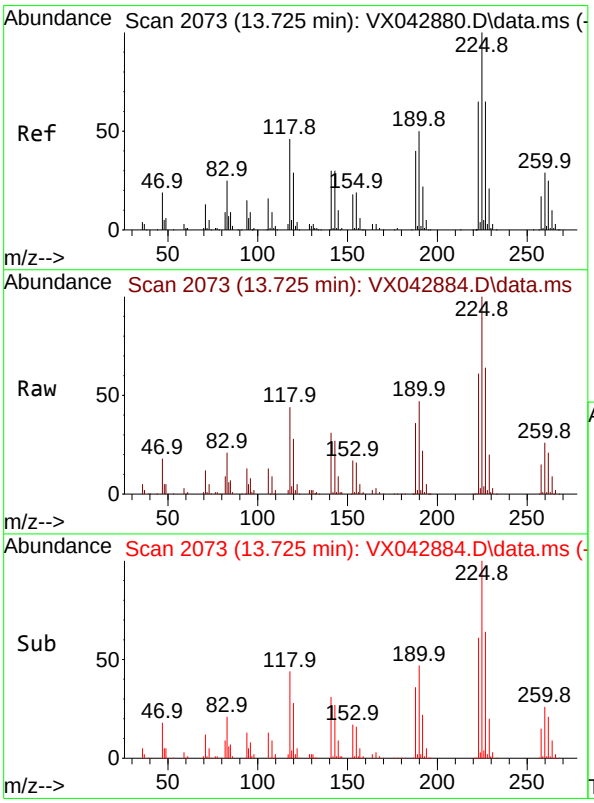
Ion	Ratio	Lower	Upper
180	100		
182	94.2	48.3	144.8
145	31.7	18.0	54.0

Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024

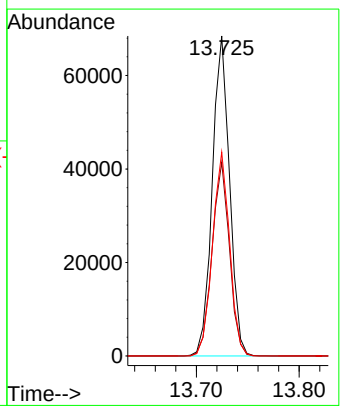


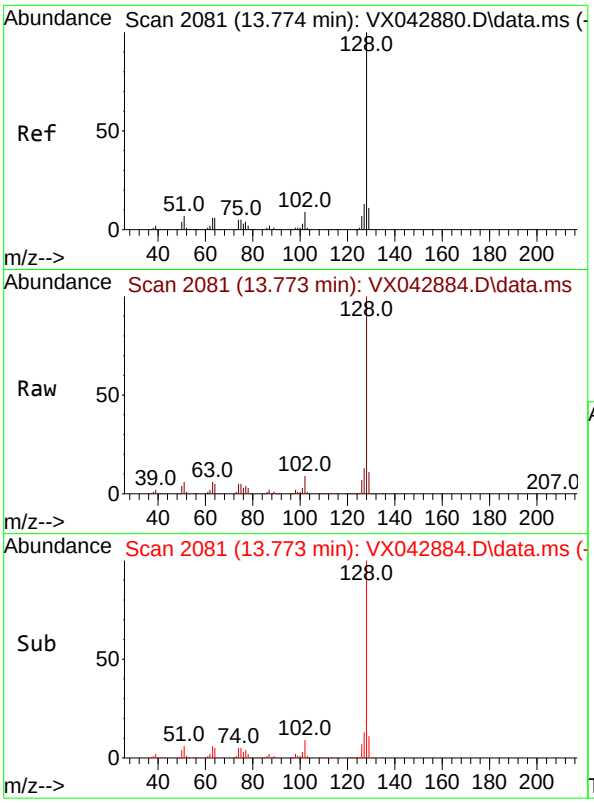


#94
Hexachlorobutadiene
Concen: 50.110 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion:225 Resp: 79508

Ion	Ratio	Lower	Upper
225	100		
223	61.0	31.1	93.2
227	63.4	32.5	97.5

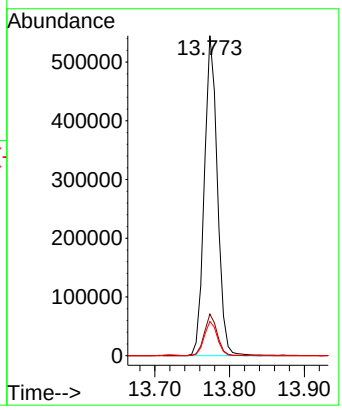




#95
Naphthalene
Concen: 51.043 ug/l
RT: 13.773 min Scan# 2
Delta R.T. -0.001 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion:128 Resp: 66079

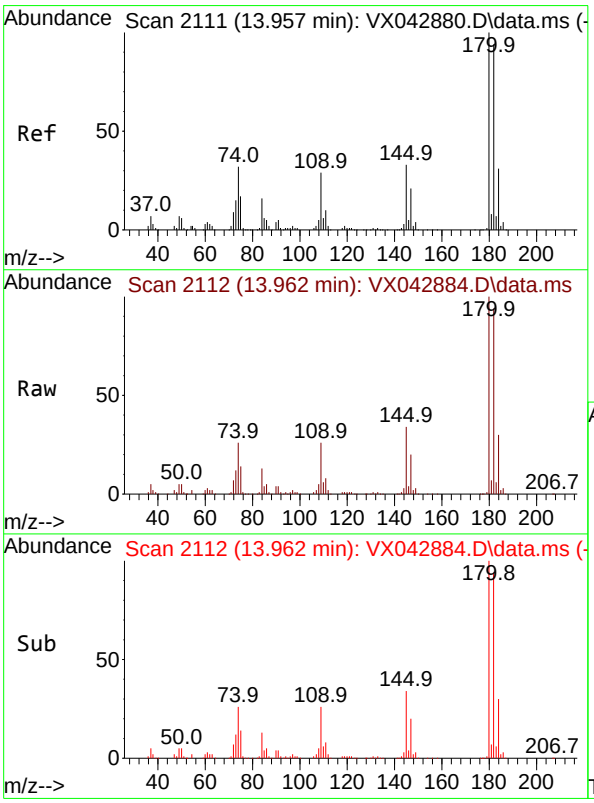
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.3	15.5
129	10.8	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Manual Integrations
APPROVED

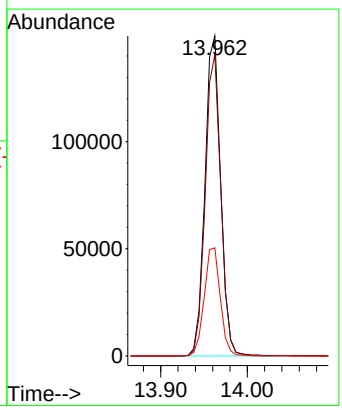
Reviewed By :John Carlone 08/07/2024
Supervised By :Mahesh Dadoda 08/08/2024



#96
1,2,3-Trichlorobenzene
Concen: 49.911 ug/l
RT: 13.962 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX042884.D
Acq: 06 Aug 2024 21:02

Tgt Ion:180 Resp: 187959

Ion	Ratio	Lower	Upper
180	100		
182	93.7	46.9	140.6
145	34.8	17.8	53.5



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042884.D
Acq On : 06 Aug 2024 21:02
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Quant Time: Aug 07 03:00:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 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	100	0.00
2	T	Dichlorodifluoromethane	0.539	0.554	-2.8	100	0.00
3	P	Chloromethane	0.587	0.564	3.9	102	0.00
4	C	Vinyl Chloride	0.557	0.551	1.1#	100	0.00
5	T	Bromomethane	0.337	0.318	5.6	100	0.00
6	T	Chloroethane	0.317	0.292	7.9	91	0.00
7	T	Trichlorofluoromethane	0.866	0.899	-3.8	101	0.00
8	T	Diethyl Ether	0.319	0.302	5.3	97	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.545	0.524	3.9	98	0.00
10	T	Methyl Iodide	0.563	0.585	-3.9	101	0.00
11	T	Tert butyl alcohol	0.137	0.148	-8.0	101	0.00
12	CM	1,1-Dichloroethene	0.551	0.520	5.6#	97	0.00
13	T	Acrolein	0.135	0.127	5.9	95	0.00
14	T	Allyl chloride	0.833	0.790	5.2	97	0.00
15	T	Acrylonitrile	0.348	0.335	3.7	98	0.00
16	T	Acetone	0.298	0.274	8.1	97	0.00
17	T	Carbon Disulfide	1.341	1.305	2.7	100	0.00
18	T	Methyl Acetate	0.944	0.856	9.3	97	0.00
19	T	Methyl tert-butyl Ether	1.855	1.782	3.9	97	0.00
20	T	Methylene Chloride	0.705	0.596	15.5	100	0.00
21	T	trans-1,2-Dichloroethene	0.554	0.535	3.4	97	0.00
22	T	Diisopropyl ether	1.829	1.762	3.7	96	0.00
23	T	Vinyl Acetate	2.076	2.084	-0.4	97	0.00
24	P	1,1-Dichloroethane	1.052	1.012	3.8	97	0.00
25	T	2-Butanone	0.468	0.452	3.4	96	0.00
26	T	2,2-Dichloropropane	0.647	0.595	8.0	93	0.00
27	T	cis-1,2-Dichloroethene	0.658	0.653	0.8	98	0.00
28	T	Bromochloromethane	0.404	0.343	15.1	99	0.00
29	T	Tetrahydrofuran	0.316	0.304	3.8	98	0.00
30	C	Chloroform	1.101	1.066	3.2#	97	0.00
31	T	Cyclohexane	0.859	0.845	1.6	98	0.00
32	T	1,1,1-Trichloroethane	0.970	0.946	2.5	97	0.00
33	S	1,2-Dichloroethane-d4	0.686	0.701	-2.2	105	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	102	0.00
35	S	Dibromofluoromethane	0.327	0.338	-3.4	107	0.00
36	T	1,1-Dichloropropene	0.443	0.408	7.9	97	0.00
37	T	Ethyl Acetate	0.555	0.522	5.9	97	0.00
38	T	Carbon Tetrachloride	0.500	0.468	6.4	97	0.00
39	T	Methylcyclohexane	0.527	0.524	0.6	98	0.00
40	TM	Benzene	1.376	1.320	4.1	97	0.00
41	T	Methacrylonitrile	0.286	0.281	1.7	97	0.00
42	TM	1,2-Dichloroethane	0.500	0.476	4.8	98	0.00
43	T	Isopropyl Acetate	0.820	0.804	2.0	99	0.00
44	TM	Trichloroethene	0.346	0.322	6.9	97	0.00
45	C	1,2-Dichloropropane	0.349	0.326	6.6#	96	0.00
46	T	Dibromomethane	0.256	0.242	5.5	97	0.00
47	T	Bromodichloromethane	0.476	0.464	2.5	97	0.00
48	T	Methyl methacrylate	0.393	0.388	1.3	96	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042884.D
Acq On : 06 Aug 2024 21:02
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Quant Time: Aug 07 03:00:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 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	0.009	0.009	0.0	103	0.00
50	S	Toluene-d8	1.161	1.165	-0.3	105	0.00
51	T	4-Methyl-2-Pentanone	0.549	0.531	3.3	98	0.00
52	CM	Toluene	0.834	0.810	2.9#	97	0.00
53	T	t-1,3-Dichloropropene	0.440	0.447	-1.6	100	0.00
54	T	cis-1,3-Dichloropropene	0.486	0.481	1.0	98	0.00
55	T	1,1,2-Trichloroethane	0.339	0.329	2.9	100	0.00
56	T	Ethyl methacrylate	0.546	0.543	0.5	99	0.00
57	T	1,3-Dichloropropane	0.556	0.537	3.4	99	0.00
58	T	2-Chloroethyl Vinyl ether	0.257	0.256	0.4	96	0.00
59	T	2-Hexanone	0.426	0.411	3.5	98	0.00
60	T	Dibromochloromethane	0.373	0.372	0.3	102	0.00
61	T	1,2-Dibromoethane	0.358	0.349	2.5	99	0.00
62	S	4-Bromofluorobenzene	0.417	0.421	-1.0	108	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
64	T	Tetrachloroethene	0.348	0.341	2.0	98	0.00
65	PM	Chlorobenzene	1.061	1.021	3.8	98	0.00
66	T	1,1,1,2-Tetrachloroethane	0.366	0.369	-0.8	101	0.00
67	C	Ethyl Benzene	1.785	1.798	-0.7#	99	0.00
68	T	m/p-Xylenes	0.681	0.690	-1.3	99	0.00
69	T	o-Xylene	0.683	0.677	0.9	98	0.00
70	T	Styrene	1.098	1.142	-4.0	99	0.00
71	P	Bromoform	0.286	0.311	-8.7	103	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
73	T	Isopropylbenzene	3.615	3.581	0.9	101	0.00
74	T	N-amyl acetate	1.627	1.654	-1.7	101	0.00
75	P	1,1,2,2-Tetrachloroethane	1.324	1.229	7.2	100	0.00
76	T	1,2,3-Trichloropropane	1.124	0.999	11.1	98	0.00
77	T	Bromobenzene	0.920	0.898	2.4	101	0.00
78	T	n-propylbenzene	4.015	4.080	-1.6	100	0.00
79	T	2-Chlorotoluene	2.574	2.489	3.3	100	0.00
80	T	1,3,5-Trimethylbenzene	2.993	3.033	-1.3	101	0.00
81	T	trans-1,4-Dichloro-2-butene	0.346	0.354	-2.3	102	0.00
82	T	4-Chlorotoluene	2.893	2.852	1.4	101	0.00
83	T	tert-Butylbenzene	3.076	3.110	-1.1	104	0.00
84	T	1,2,4-Trimethylbenzene	3.013	3.044	-1.0	100	0.00
85	T	sec-Butylbenzene	3.622	3.692	-1.9	101	0.00
86	T	p-Isopropyltoluene	3.009	3.104	-3.2	100	0.00
87	T	1,3-Dichlorobenzene	1.664	1.601	3.8	100	0.00
88	T	1,4-Dichlorobenzene	1.706	1.595	6.5	101	0.00
89	T	n-Butylbenzene	2.596	2.645	-1.9	100	0.00
90	T	Hexachloroethane	0.550	0.543	1.3	103	0.00
91	T	1,2-Dichlorobenzene	1.666	1.619	2.8	101	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.291	0.286	1.7	101	0.00
93	T	1,2,4-Trichlorobenzene	1.017	0.985	3.1	100	0.00
94	T	Hexachlorobutadiene	0.431	0.432	-0.2	103	0.00
95	T	Naphthalene	3.518	3.591	-2.1	101	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042884.D
Acq On : 06 Aug 2024 21:02
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Quant Time: Aug 07 03:00:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 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	1.023	1.021	0.2	101	0.00

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

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042884.D
Acq On : 06 Aug 2024 21:02
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Quant Time: Aug 07 03:00:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 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	100	0.00
2	T	Dichlorodifluoromethane	50.000	51.378	-2.8	100	0.00
3	P	Chloromethane	50.000	48.066	3.9	102	0.00
4	C	Vinyl Chloride	50.000	49.460	1.1#	100	0.00
5	T	Bromomethane	50.000	47.164	5.7	100	0.00
6	T	Chloroethane	50.000	46.022	8.0	91	0.00
7	T	Trichlorofluoromethane	50.000	51.849	-3.7	101	0.00
8	T	Diethyl Ether	50.000	47.339	5.3	97	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	48.111	3.8	98	0.00
10	T	Methyl Iodide	50.000	51.968	-3.9	101	0.00
11	T	Tert butyl alcohol	250.000	271.385	-8.6	101	0.00
12	CM	1,1-Dichloroethene	50.000	47.211	5.6#	97	0.00
13	T	Acrolein	250.000	236.849	5.3	95	0.00
14	T	Allyl chloride	50.000	47.417	5.2	97	0.00
15	T	Acrylonitrile	250.000	239.996	4.0	98	0.00
16	T	Acetone	250.000	229.828	8.1	97	0.00
17	T	Carbon Disulfide	50.000	48.653	2.7	100	0.00
18	T	Methyl Acetate	50.000	45.336	9.3	97	0.00
19	T	Methyl tert-butyl Ether	50.000	48.038	3.9	97	0.00
20	T	Methylene Chloride	50.000	48.307	3.4	100	0.00
21	T	trans-1,2-Dichloroethene	50.000	48.249	3.5	97	0.00
22	T	Diisopropyl ether	50.000	48.164	3.7	96	0.00
23	T	Vinyl Acetate	250.000	250.908	-0.4	97	0.00
24	P	1,1-Dichloroethane	50.000	48.089	3.8	97	0.00
25	T	2-Butanone	250.000	241.727	3.3	96	0.00
26	T	2,2-Dichloropropane	50.000	45.984	8.0	93	0.00
27	T	cis-1,2-Dichloroethene	50.000	49.679	0.6	98	0.00
28	T	Bromochloromethane	50.000	42.446	15.1	99	0.00
29	T	Tetrahydrofuran	250.000	240.296	3.9	98	0.00
30	C	Chloroform	50.000	48.400	3.2#	97	0.00
31	T	Cyclohexane	50.000	49.168	1.7	98	0.00
32	T	1,1,1-Trichloroethane	50.000	48.803	2.4	97	0.00
33	S	1,2-Dichloroethane-d4	50.000	51.027	-2.1	105	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	102	0.00
35	S	Dibromofluoromethane	50.000	51.641	-3.3	107	0.00
36	T	1,1-Dichloropropene	50.000	45.993	8.0	97	0.00
37	T	Ethyl Acetate	50.000	47.100	5.8	97	0.00
38	T	Carbon Tetrachloride	50.000	46.752	6.5	97	0.00
39	T	Methylcyclohexane	50.000	49.760	0.5	98	0.00
40	TM	Benzene	50.000	47.990	4.0	97	0.00
41	T	Methacrylonitrile	50.000	49.128	1.7	97	0.00
42	TM	1,2-Dichloroethane	50.000	47.516	5.0	98	0.00
43	T	Isopropyl Acetate	50.000	48.996	2.0	99	0.00
44	TM	Trichloroethene	50.000	46.633	6.7	97	0.00
45	C	1,2-Dichloropropane	50.000	46.713	6.6#	96	0.00
46	T	Dibromomethane	50.000	47.212	5.6	97	0.00
47	T	Bromodichloromethane	50.000	48.765	2.5	97	0.00
48	T	Methyl methacrylate	50.000	49.376	1.2	96	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042884.D
Acq On : 06 Aug 2024 21:02
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Quant Time: Aug 07 03:00:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 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	1029.881	-3.0	103	0.00
50	S	Toluene-d8	50.000	50.170	-0.3	105	0.00
51	T	4-Methyl-2-Pentanone	250.000	241.464	3.4	98	0.00
52	CM	Toluene	50.000	48.559	2.9#	97	0.00
53	T	t-1,3-Dichloropropene	50.000	50.779	-1.6	100	0.00
54	T	cis-1,3-Dichloropropene	50.000	49.491	1.0	98	0.00
55	T	1,1,2-Trichloroethane	50.000	48.475	3.0	100	0.00
56	T	Ethyl methacrylate	50.000	49.716	0.6	99	0.00
57	T	1,3-Dichloropropane	50.000	48.297	3.4	99	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	248.307	0.7	96	0.00
59	T	2-Hexanone	250.000	241.460	3.4	98	0.00
60	T	Dibromochloromethane	50.000	49.936	0.1	102	0.00
61	T	1,2-Dibromoethane	50.000	48.666	2.7	99	0.00
62	S	4-Bromofluorobenzene	50.000	50.422	-0.8	108	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
64	T	Tetrachloroethene	50.000	49.075	1.8	98	0.00
65	PM	Chlorobenzene	50.000	48.096	3.8	98	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	50.446	-0.9	101	0.00
67	C	Ethyl Benzene	50.000	50.364	-0.7#	99	0.00
68	T	m/p-Xylenes	100.000	101.217	-1.2	99	0.00
69	T	o-Xylene	50.000	49.580	0.8	98	0.00
70	T	Styrene	50.000	52.013	-4.0	99	0.00
71	P	Bromoform	50.000	50.168	-0.3	103	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	103	0.00
73	T	Isopropylbenzene	50.000	49.532	0.9	101	0.00
74	T	N-amyl acetate	50.000	50.840	-1.7	101	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	46.386	7.2	100	0.00
76	T	1,2,3-Trichloropropane	50.000	44.439	11.1	98	0.00
77	T	Bromobenzene	50.000	48.834	2.3	101	0.00
78	T	n-propylbenzene	50.000	50.805	-1.6	100	0.00
79	T	2-Chlorotoluene	50.000	48.358	3.3	100	0.00
80	T	1,3,5-Trimethylbenzene	50.000	50.660	-1.3	101	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	51.226	-2.5	102	0.00
82	T	4-Chlorotoluene	50.000	49.302	1.4	101	0.00
83	T	tert-Butylbenzene	50.000	50.556	-1.1	104	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.507	-1.0	100	0.00
85	T	sec-Butylbenzene	50.000	50.961	-1.9	101	0.00
86	T	p-Isopropyltoluene	50.000	51.567	-3.1	100	0.00
87	T	1,3-Dichlorobenzene	50.000	48.090	3.8	100	0.00
88	T	1,4-Dichlorobenzene	50.000	46.754	6.5	101	0.00
89	T	n-Butylbenzene	50.000	50.942	-1.9	100	0.00
90	T	Hexachloroethane	50.000	49.328	1.3	103	0.00
91	T	1,2-Dichlorobenzene	50.000	48.586	2.8	101	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	49.157	1.7	101	0.00
93	T	1,2,4-Trichlorobenzene	50.000	48.433	3.1	100	0.00
94	T	Hexachlorobutadiene	50.000	50.110	-0.2	103	0.00
95	T	Naphthalene	50.000	51.043	-2.1	101	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042884.D
Acq On : 06 Aug 2024 21:02
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX080724

Quant Time: Aug 07 03:00:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 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	49.911	0.2	101	0.00

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

Alliance TECHNICAL GROUP

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.: P3457 SAS No.: P3457 SDG No.: P3457

Instrument ID: MSVOA_N Calibration Date/Time: 08/10/2024 10:46

Lab File ID: VN083197.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	0.528		-6.88	20
Chloromethane	0.581	0.529	0.1	-8.95	20
Vinyl Chloride	0.592	0.547		-7.6	20
Bromomethane	0.368	0.336		-8.7	20
Chloroethane	0.371	0.346		-6.74	20
1,1,2-Trichlorotrifluoroethane	0.539	0.529		-1.86	20
1,1-Dichloroethene	0.554	0.498		-10.11	20
Acetone	0.278	0.278		0	20
Carbon Disulfide	1.622	1.341		-17.32	20
Methyl tert-butyl Ether	2.001	1.847		-7.7	20
Methylene Chloride	0.641	0.553		-13.73	20
trans-1,2-Dichloroethene	0.573	0.524		-8.55	20
1,1-Dichloroethane	1.073	1.030	0.1	-4.01	20
Cyclohexane	1.055	0.878		-16.78	20
2-Butanone	0.428	0.378		-11.68	20
Carbon Tetrachloride	0.532	0.522		-1.88	20
cis-1,2-Dichloroethene	0.691	0.642		-7.09	20
Chloroform	1.115	1.088		-2.42	20
1,1,1-Trichloroethane	1.055	1.021		-3.22	20
Methylcyclohexane	0.580	0.542		-6.55	20
Benzene	1.406	1.348		-4.13	20
1,2-Dichloroethane	0.512	0.508		-0.78	20
Trichloroethene	0.335	0.323		-3.58	20
Bromodichloromethane	0.537	0.521		-2.98	20
Toluene	0.889	0.868		-2.36	20
1,1,2-Trichloroethane	0.318	0.315		-0.94	20
Dibromochloromethane	0.385	0.386		0.26	20
Tetrachloroethene	0.331	0.321		-3.02	20
Chlorobenzene	1.105	1.062	0.3	-3.89	20
Ethyl Benzene	2.027	1.964		-3.11	20
m/p-Xylenes	0.759	0.737		-2.9	20
o-Xylene	0.749	0.708		-5.47	20
Isopropylbenzene	4.182	3.935		-5.91	20
1,4-Dichlorobenzene	1.762	1.646		-6.58	20
1,2-Dichlorobenzene	1.692	1.553		-8.22	20
1,2-Dichloroethane-d4	0.712	0.706		-0.84	20
Dibromofluoromethane	0.312	0.304		-2.56	20
Toluene-d8	1.164	1.141		-1.98	20

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

Raw Data: **VN083197.D**

Alliance TECHNICAL GROUP

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.: P3457 SAS No.: P3457 SDG No.: P3457

Instrument ID: MSVOA_N Calibration Date/Time: 08/10/2024 10:46

Lab File ID: VN083197.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	0.446		-1.76	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\VN081024\
Data File : VN083197.D
Acq On : 10 Aug 2024 10:46
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 12 01:45:26 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

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone
08/12/2024
Supervised By :Mahesh Dadoda
08/12/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	189834	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	320853	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	279656	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	135305	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	134039	49.606	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 99.220%			
35) Dibromofluoromethane	8.165	113	97672	48.770	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.540%			
50) Toluene-d8	10.565	98	366237	49.024	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.040%			
62) 4-Bromofluorobenzene	12.847	95	143110	49.137	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 98.280%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	100295	46.590	ug/l	99
3) Chloromethane	2.365	50	100509	45.603	ug/l	97
4) Vinyl Chloride	2.518	62	103782	46.148	ug/l	97
5) Bromomethane	2.948	94	63809	45.727	ug/l	90
6) Chloroethane	3.118	64	65765	46.742	ug/l	99
7) Trichlorofluoromethane	3.501	101	178729	48.108	ug/l	96
8) Diethyl Ether	3.965	74	62695	45.351	ug/l	84
9) 1,1,2-Trichlorotrifluo...	4.371	101	100482	49.057	ug/l	97
10) Methyl Iodide	4.589	142	125700	46.653	ug/l	93
11) Tert butyl alcohol	5.524	59	105988	188.745	ug/l	98
12) 1,1-Dichloroethene	4.342	96	94454	44.885	ug/l	94
13) Acrolein	4.177	56	91889	251.076	ug/l	100
14) Allyl chloride	5.018	41	165569	41.635	ug/l	94
15) Acrylonitrile	5.718	53	253104	219.159	ug/l	99
16) Acetone	4.424	43	264296	249.969	ug/l	96
17) Carbon Disulfide	4.712	76	254569	41.344	ug/l	99
18) Methyl Acetate	5.024	43	140596	44.631	ug/l	94
19) Methyl tert-butyl Ether	5.789	73	350656	46.166	ug/l	96
20) Methylene Chloride	5.277	84	105039	43.166	ug/l	87
21) trans-1,2-Dichloroethene	5.783	96	99457	45.728	ug/l	91
22) Diisopropyl ether	6.665	45	353509	47.292	ug/l	96
23) Vinyl Acetate	6.600	43	1795282m	234.315	ug/l	
24) 1,1-Dichloroethane	6.571	63	195454	47.971	ug/l	98
25) 2-Butanone	7.483	43	358971	221.113	ug/l	93
26) 2,2-Dichloropropane	7.488	77	191062	50.494	ug/l	100
27) cis-1,2-Dichloroethene	7.488	96	121869	46.435	ug/l	94
28) Bromochloromethane	7.812	49	73053	43.873	ug/l	86
29) Tetrahydrofuran	7.836	42	225692	215.054	ug/l	89
30) Chloroform	7.965	83	206475	48.778	ug/l	100
31) Cyclohexane	8.259	56	166583	41.601	ug/l	95
32) 1,1,1-Trichloroethane	8.171	97	193801	48.369	ug/l	96
36) 1,1-Dichloropropene	8.371	75	145632	48.071	ug/l	99
37) Ethyl Acetate	7.559	43	146483	43.184	ug/l #	96
38) Carbon Tetrachloride	8.365	117	167532	49.098	ug/l	98
39) Methylcyclohexane	9.600	83	173960	46.750	ug/l	97
40) Benzene	8.606	78	432436	47.915	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081024\
Data File : VN083197.D
Acq On : 10 Aug 2024 10:46
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 12 01:45:26 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

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone
08/12/2024
Supervised By :Mahesh Dadoda
08/12/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.777	41	84845	43.992 ug/l		98
42) 1,2-Dichloroethane	8.671	62	163117	49.615 ug/l		98
43) Isopropyl Acetate	8.688	43	261076	43.999 ug/l	#	93
44) Trichloroethene	9.353	130	103538	48.199 ug/l		95
45) 1,2-Dichloropropane	9.624	63	104597	48.825 ug/l		99
46) Dibromomethane	9.712	93	75201	49.042 ug/l		99
47) Bromodichloromethane	9.888	83	167102	48.534 ug/l		98
48) Methyl methacrylate	9.682	41	126948	45.268 ug/l		93
49) 1,4-Dioxane	9.694	88	41881	827.792 ug/l		98
51) 4-Methyl-2-Pentanone	10.447	43	740795	230.946 ug/l		94
52) Toluene	10.629	92	278386	48.819 ug/l		97
53) t-1,3-Dichloropropene	10.835	75	174824	49.432 ug/l		100
54) cis-1,3-Dichloropropene	10.312	75	184336	49.003 ug/l		92
55) 1,1,2-Trichloroethane	11.018	97	101202	49.523 ug/l		95
56) Ethyl methacrylate	10.871	69	179166	46.507 ug/l	#	87
57) 1,3-Dichloropropane	11.165	76	180077	49.438 ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	359375	220.686 ug/l		98
59) 2-Hexanone	11.194	43	571757	230.402 ug/l		93
60) Dibromochloromethane	11.359	129	123702	50.067 ug/l		98
61) 1,2-Dibromoethane	11.471	107	102197	47.605 ug/l		98
64) Tetrachloroethene	11.106	164	89735	48.451 ug/l		93
65) Chlorobenzene	11.894	112	296861	48.035 ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.959	131	104493	47.941 ug/l		99
67) Ethyl Benzene	11.965	91	549334	48.454 ug/l		100
68) m/p-Xylenes	12.071	106	411939	97.000 ug/l		97
69) o-Xylene	12.400	106	197871	47.242 ug/l		98
70) Styrene	12.412	104	343690	48.856 ug/l		98
71) Bromoform	12.576	173	79756	48.302 ug/l	#	100
73) Isopropylbenzene	12.694	105	532490	47.051 ug/l		100
74) N-amyl acetate	12.494	43	236574	42.736 ug/l		94
75) 1,1,2,2-Tetrachloroethane	12.935	83	141893	44.329 ug/l		100
76) 1,2,3-Trichloropropane	12.994	75	128173m	43.162 ug/l		
77) Bromobenzene	12.982	156	118739	47.231 ug/l		98
78) n-propylbenzene	13.035	91	633975	48.649 ug/l		100
79) 2-Chlorotoluene	13.123	91	387930	46.954 ug/l		96
80) 1,3,5-Trimethylbenzene	13.170	105	450777	47.576 ug/l		98
81) trans-1,4-Dichloro-2-b...	12.735	75	56583	41.447 ug/l		94
82) 4-Chlorotoluene	13.223	91	392168	47.321 ug/l		97
83) tert-Butylbenzene	13.441	119	394700	47.039 ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	457094	47.870 ug/l		100
85) sec-Butylbenzene	13.618	105	547739	47.840 ug/l		99
86) p-Isopropyltoluene	13.729	119	458855	48.538 ug/l		98
87) 1,3-Dichlorobenzene	13.735	146	218609	46.212 ug/l		98
88) 1,4-Dichlorobenzene	13.812	146	222764	46.710 ug/l		99
89) n-Butylbenzene	14.053	91	411436	50.228 ug/l		98
90) Hexachloroethane	14.335	117	85349	46.731 ug/l		93
91) 1,2-Dichlorobenzene	14.106	146	210097	45.896 ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	31852	41.008 ug/l		98
93) 1,2,4-Trichlorobenzene	15.394	180	120398	46.947 ug/l		98
94) Hexachlorobutadiene	15.500	225	50388	44.179 ug/l		98
95) Naphthalene	15.641	128	399269	43.952 ug/l		99
96) 1,2,3-Trichlorobenzene	15.841	180	116409	45.874 ug/l		96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081024\
Data File : VN083197.D
Acq On : 10 Aug 2024 10:46
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 12 01:45:26 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

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone
08/12/2024
Supervised By :Mahesh Dadoda
08/12/2024

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081024\
Data File : VN083197.D
Acq On : 10 Aug 2024 10:46
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 12 01:45:26 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

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

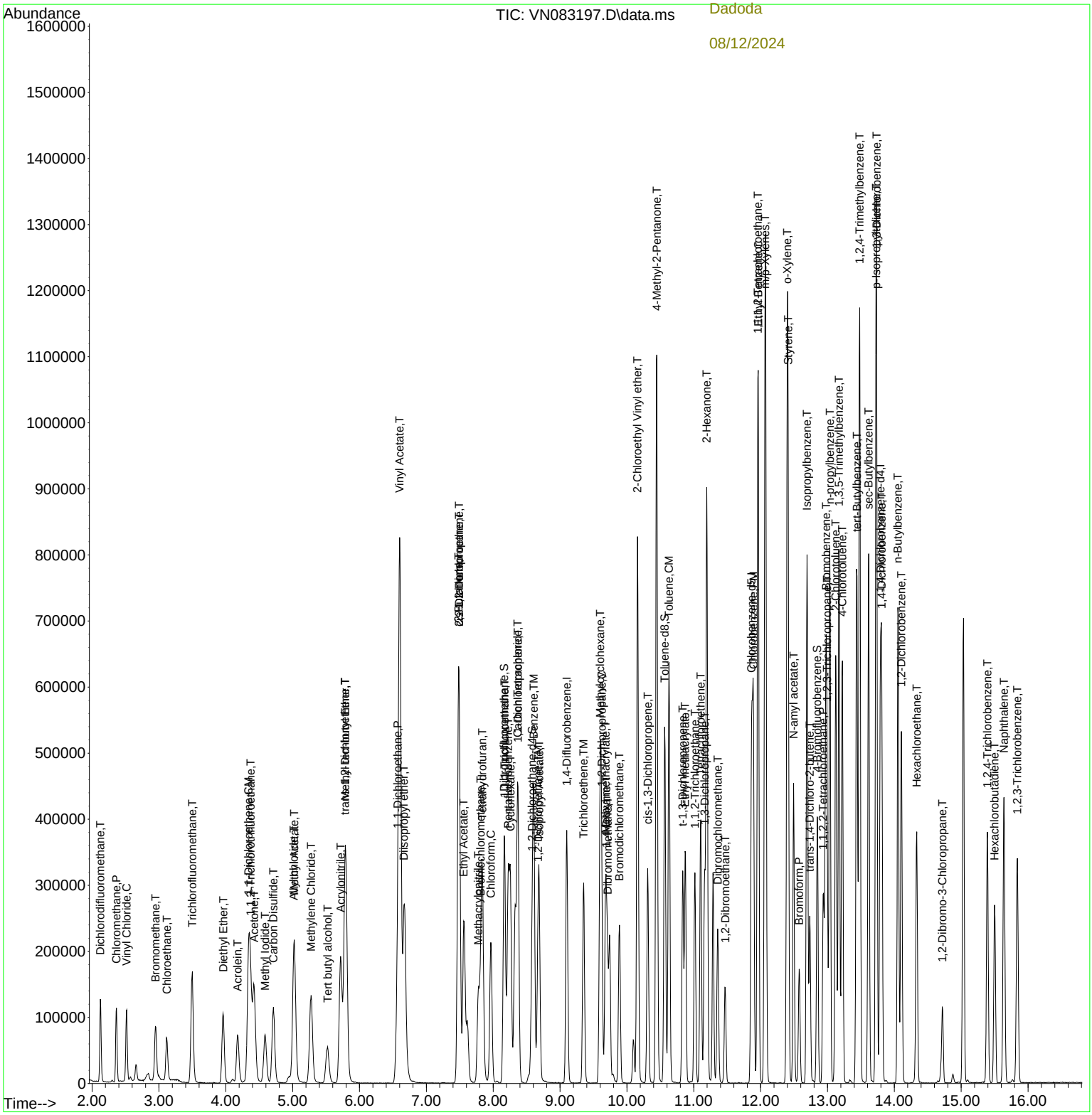
Manual Integrations APPROVED

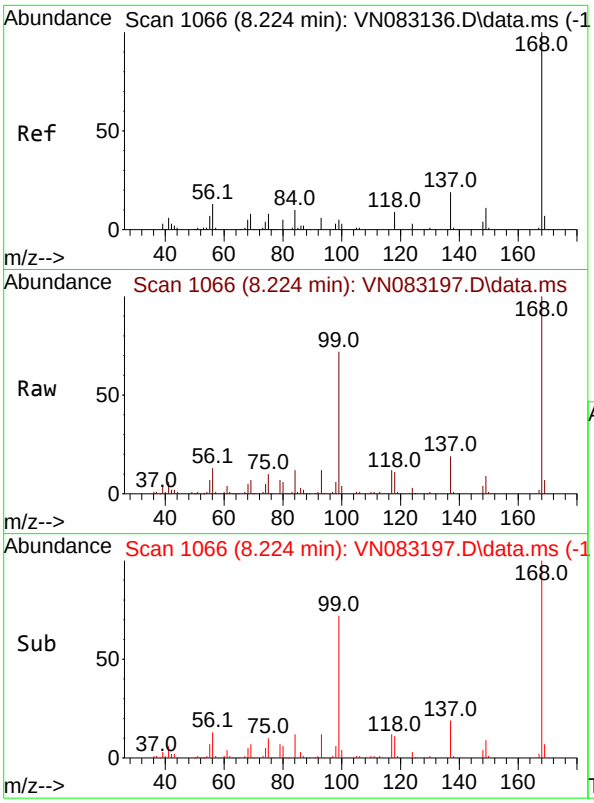
Reviewed By :John Carlone

08/12/2024

Supervised By :Mahesh Dadoda

08/12/2024

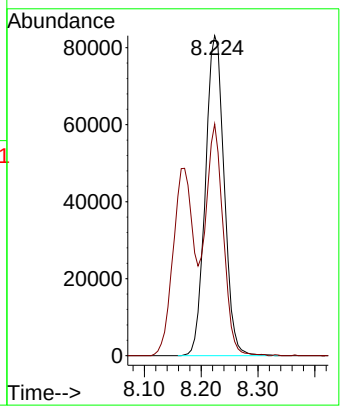




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:168 Resp: 18983

Ion	Ratio	Lower	Upper
168	100		
99	72.2	48.2	72.4



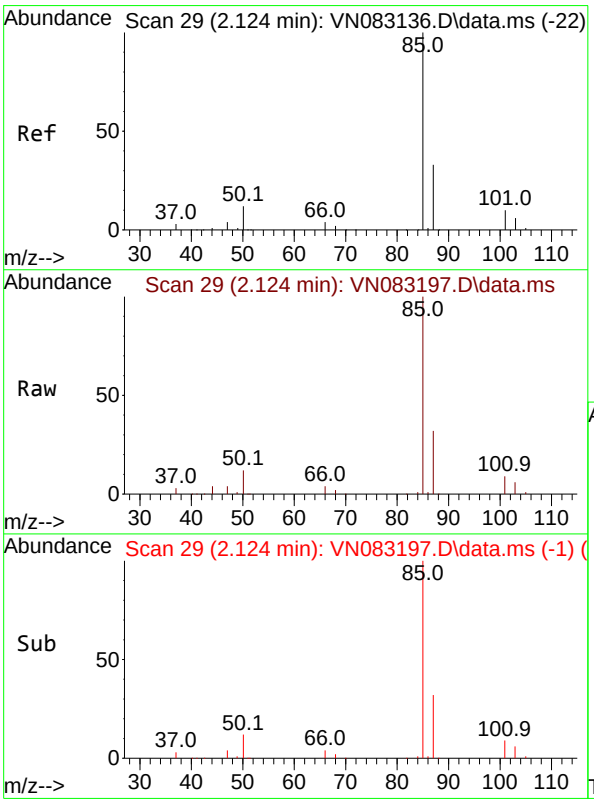
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone

08/12/2024
Supervised By :Mahesh Dadoda

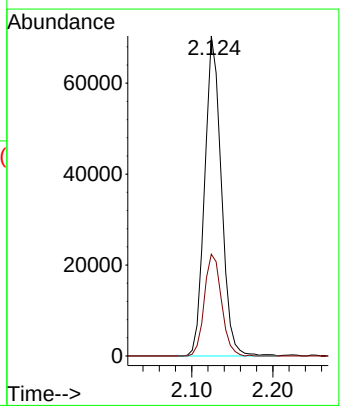
08/12/2024

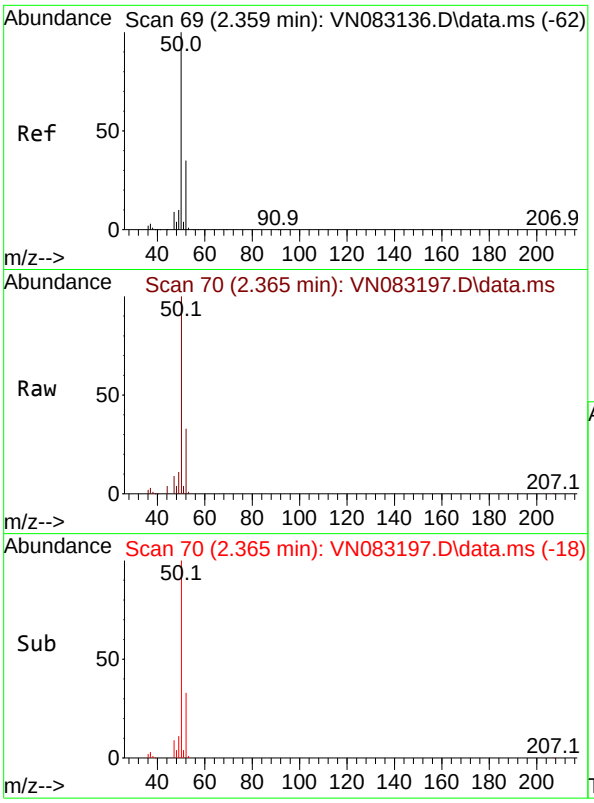


#2
Dichlorodifluoromethane
Concen: 46.590 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 85 Resp: 100295

Ion	Ratio	Lower	Upper
85	100		
87	31.8	15.7	47.0

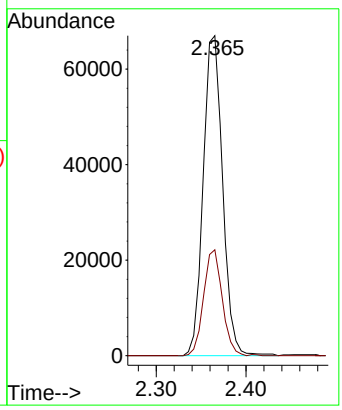




#3
Chloromethane
Concen: 45.603 ug/l
RT: 2.365 min Scan# 7
Delta R.T. 0.006 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 50 Resp: 10050

Ion	Ratio	Lower	Upper
50	100		
52	33.1	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

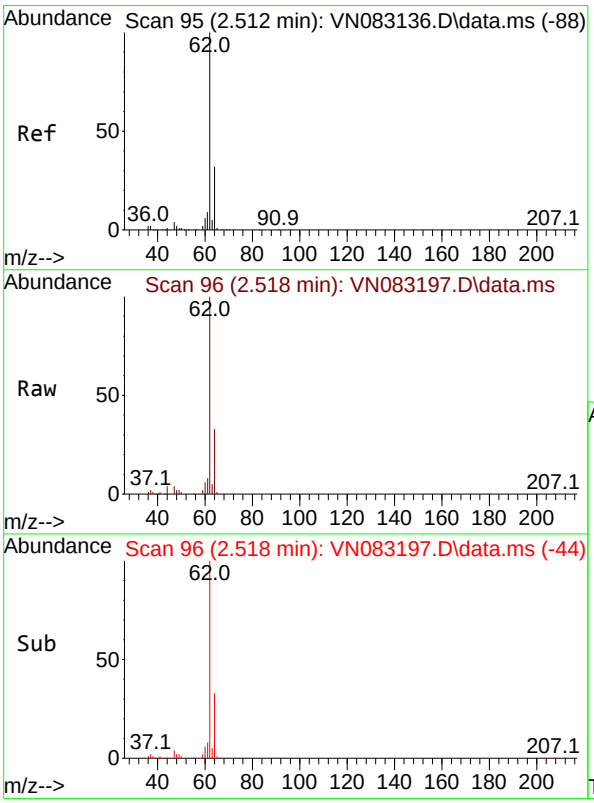
Manual Integrations
APPROVED

Reviewed By :John Carlone

08/12/2024

Supervised By :Mahesh Dadoda

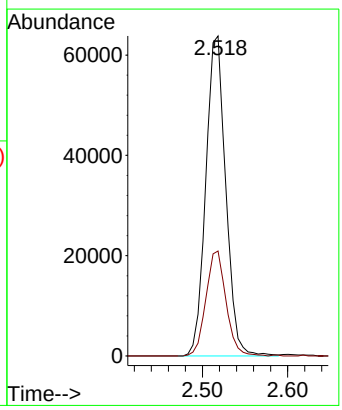
08/12/2024

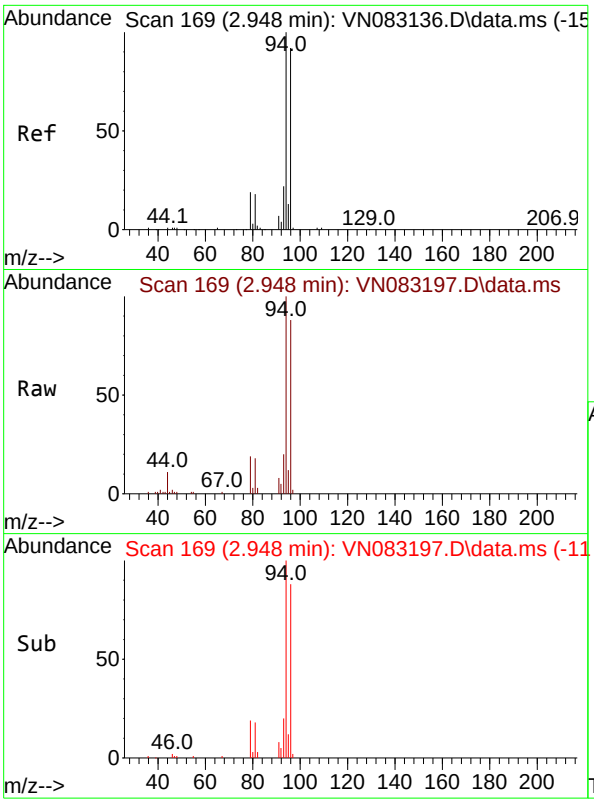


#4
Vinyl Chloride
Concen: 46.148 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 62 Resp: 103782

Ion	Ratio	Lower	Upper
62	100		
64	32.8	25.0	37.6

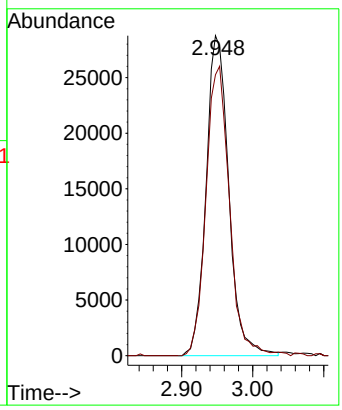




#5
Bromomethane
Concen: 45.727 ug/l
RT: 2.948 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 94 Resp: 6380

Ion	Ratio	Lower	Upper
94	100		
96	87.8	78.0	117.0



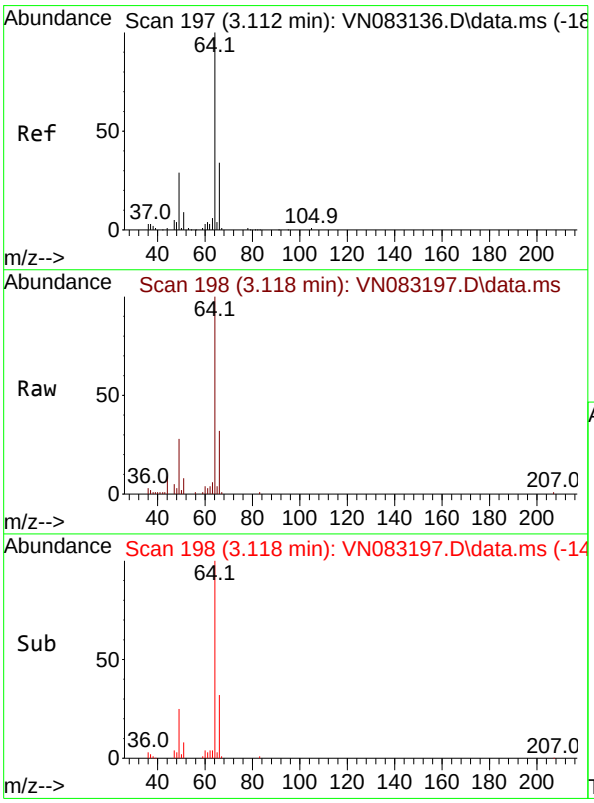
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone

08/12/2024
Supervised By :Mahesh Dadoda

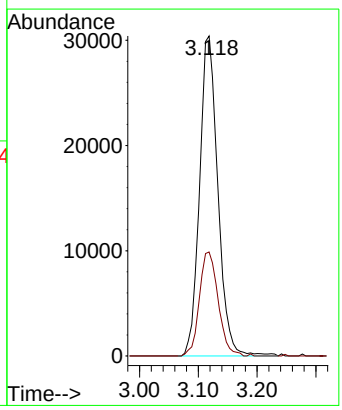
08/12/2024

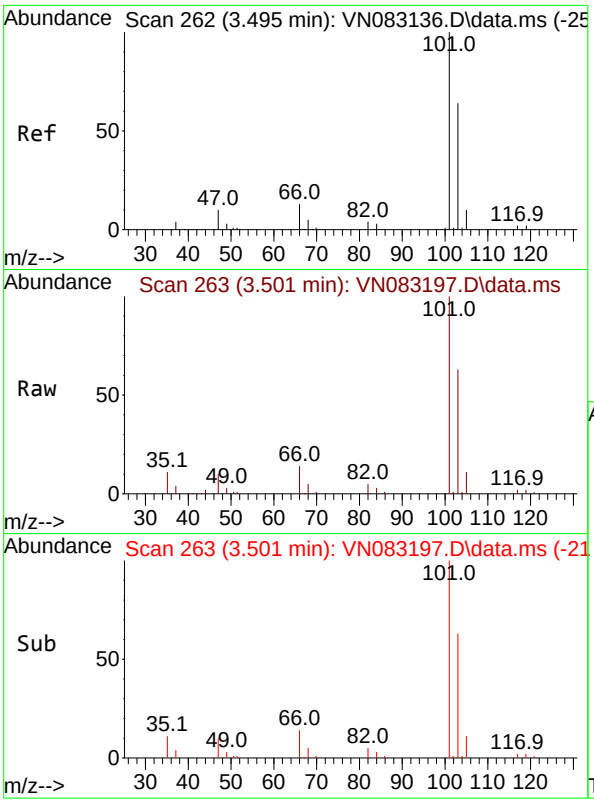


#6
Chloroethane
Concen: 46.742 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.006 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 64 Resp: 65765

Ion	Ratio	Lower	Upper
64	100		
66	32.5	26.6	40.0

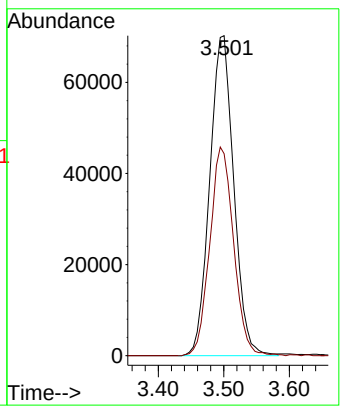




#7
Trichlorofluoromethane
Concen: 48.108 ug/l
RT: 3.501 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:101 Resp: 17872

Ion	Ratio	Lower	Upper
101	100		
103	63.1	52.7	79.1



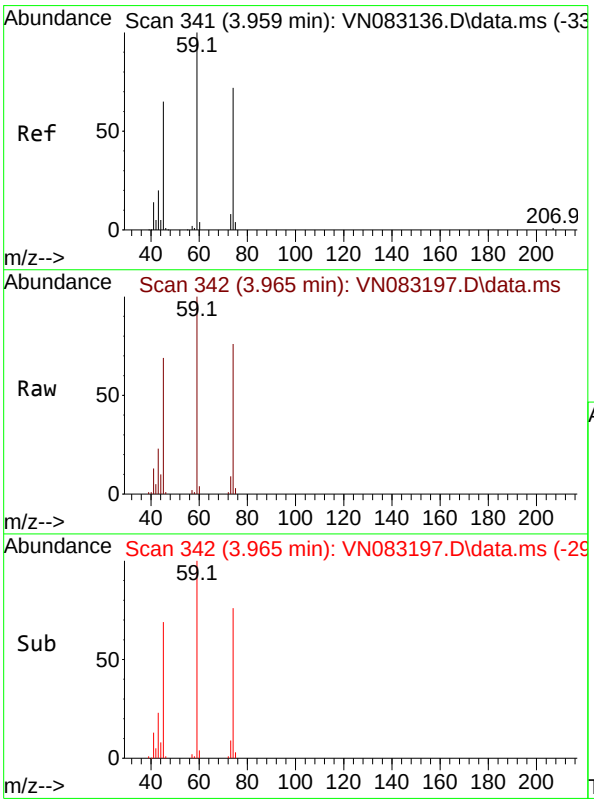
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone

08/12/2024
Supervised By :Mahesh Dadoda

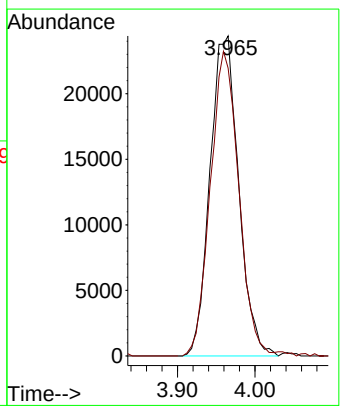
08/12/2024

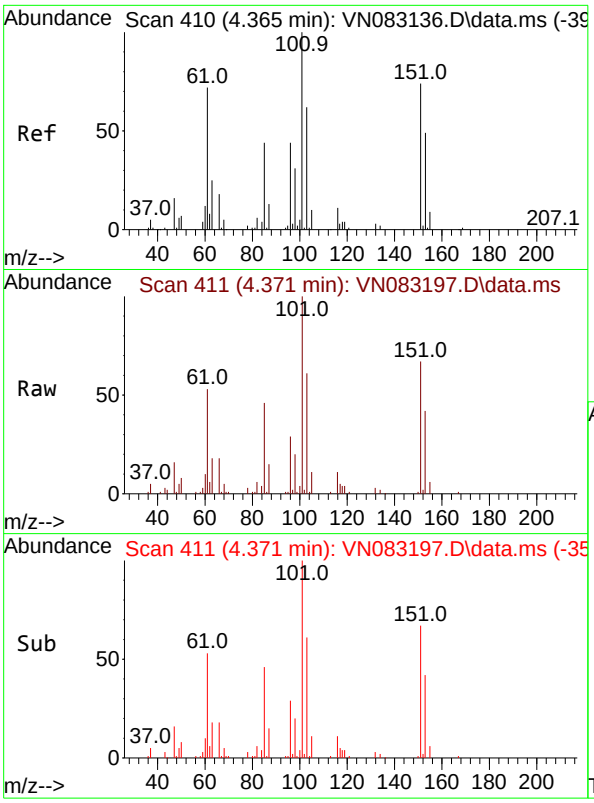


#8
Diethyl Ether
Concen: 45.351 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.006 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 74 Resp: 62695

Ion	Ratio	Lower	Upper
74	100		
45	94.2	55.5	166.3

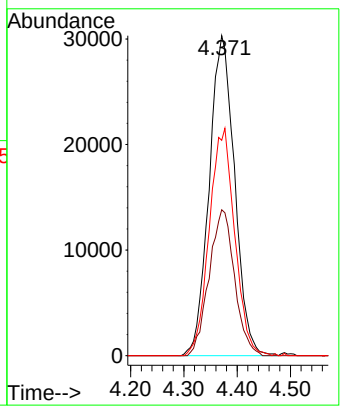




#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.057 ug/l
RT: 4.371 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:101 Resp: 10048

Ion	Ratio	Lower	Upper
101	100		
85	45.6	38.3	57.5
151	71.2	59.3	88.9



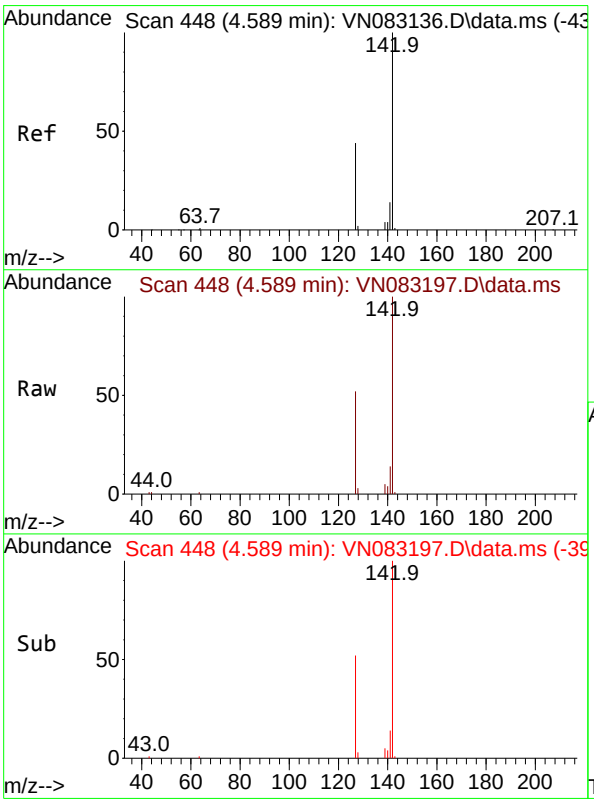
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone

08/12/2024
Supervised By :Mahesh Dadoda

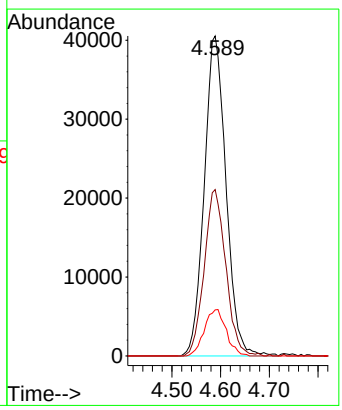
08/12/2024

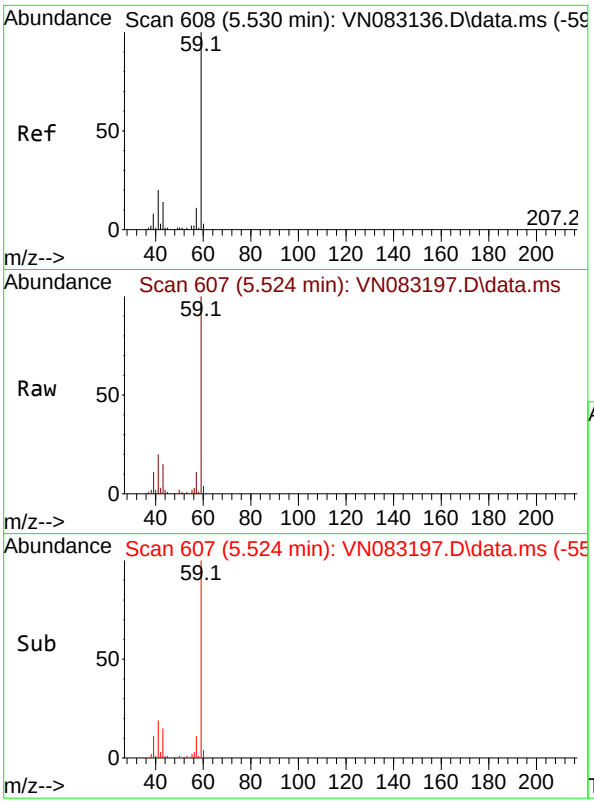


#10
Methyl Iodide
Concen: 46.653 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:142 Resp: 125700

Ion	Ratio	Lower	Upper
142	100		
127	52.0	37.5	56.3
141	14.4	13.1	19.7

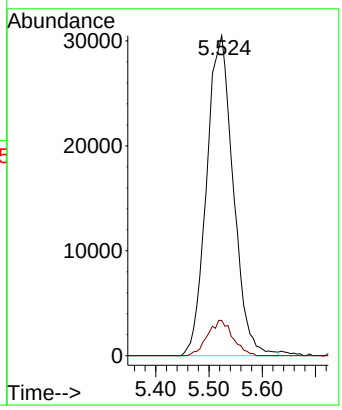




#11
Tert butyl alcohol
Concen: 188.745 ug/l
RT: 5.524 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 59 Resp: 10598

Ion	Ratio	Lower	Upper
59	100		
57	10.5	8.9	13.3



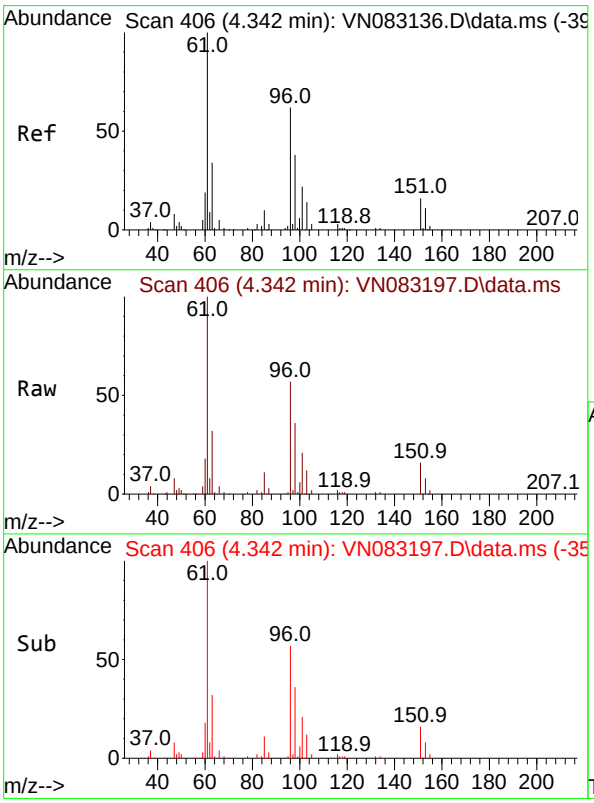
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone

08/12/2024
Supervised By :Mahesh Dadoda

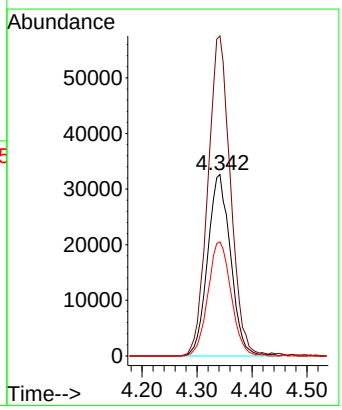
08/12/2024

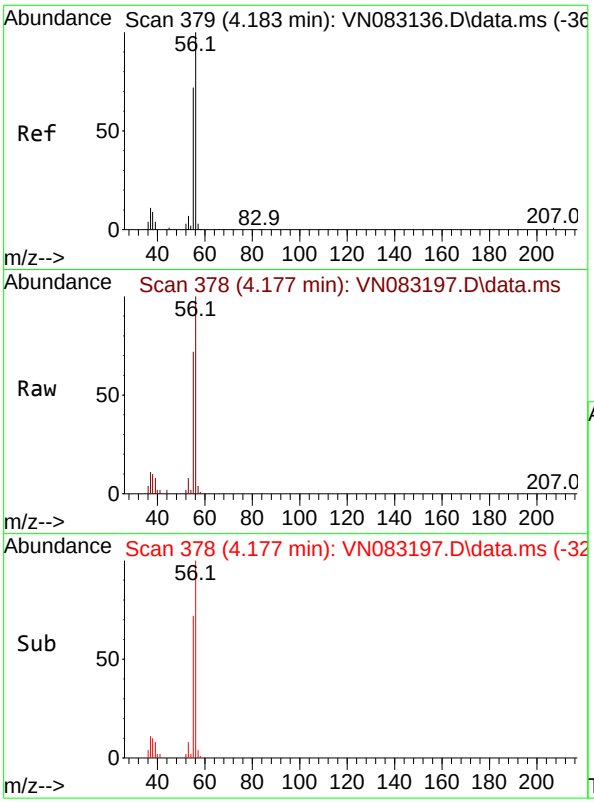


#12
1,1-Dichloroethene
Concen: 44.885 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 96 Resp: 94454

Ion	Ratio	Lower	Upper
96	100		
61	176.4	149.7	224.5
98	62.9	50.1	75.1

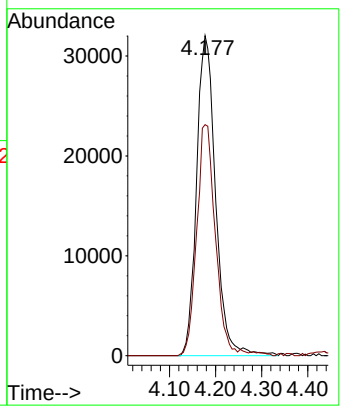




#13
Acrolein
Concen: 251.076 ug/l
RT: 4.177 min Scan# 3
Delta R.T. -0.006 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 56 Resp: 9188

Ion	Ratio	Lower	Upper
56	100		
55	70.9	56.4	84.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

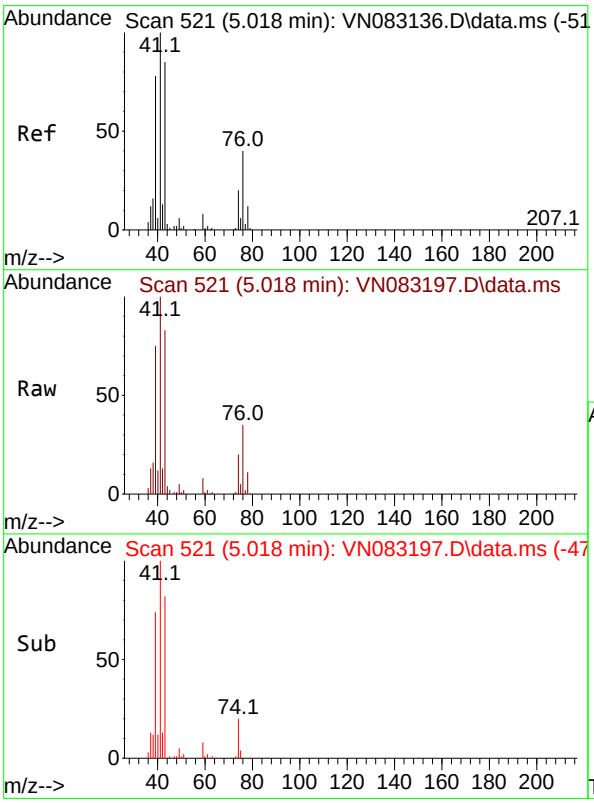
Manual Integrations APPROVED

Reviewed By :John Carlone

08/12/2024

Supervised By :Mahesh Dadoda

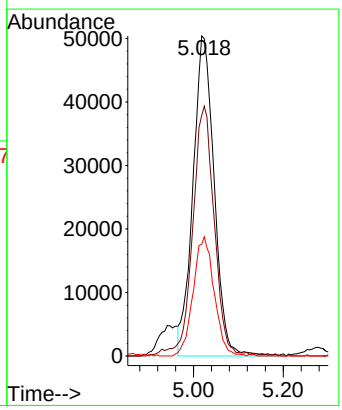
08/12/2024

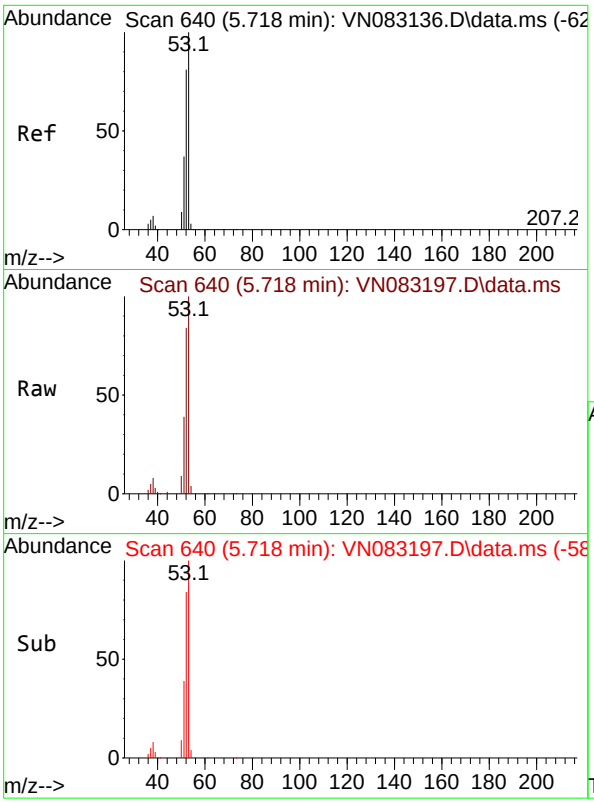


#14
Allyl chloride
Concen: 41.635 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 41 Resp: 165569

Ion	Ratio	Lower	Upper
41	100		
39	79.3	67.8	101.6
76	36.7	25.8	38.8

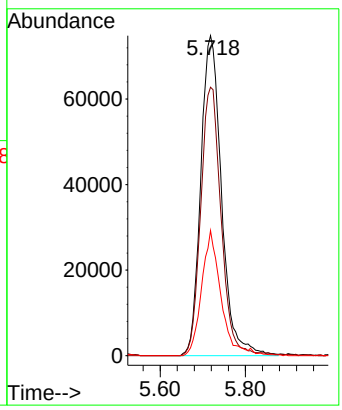




#15
Acrylonitrile
Concen: 219.159 ug/l
RT: 5.718 min Scan# 64
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 53 Resp: 25310

Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.6	100.0
51	36.6	30.1	45.1



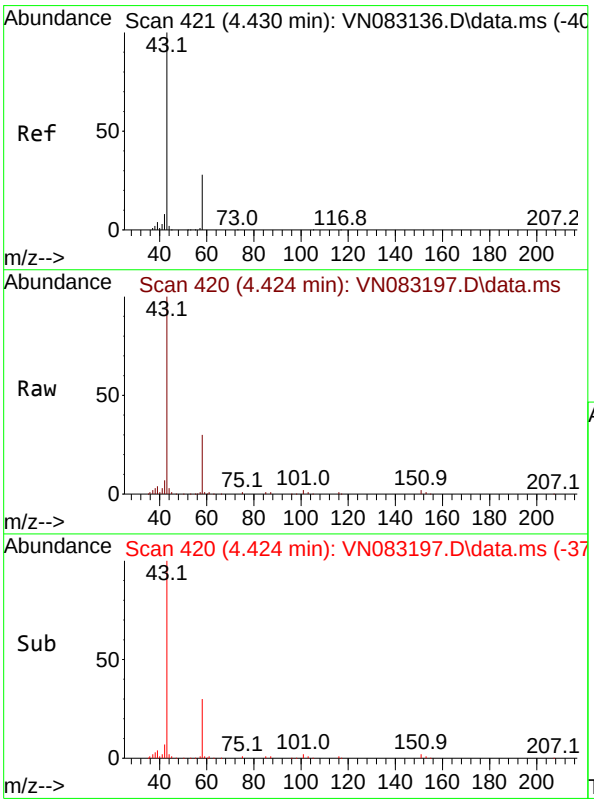
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone

08/12/2024
Supervised By :Mahesh Dadoda

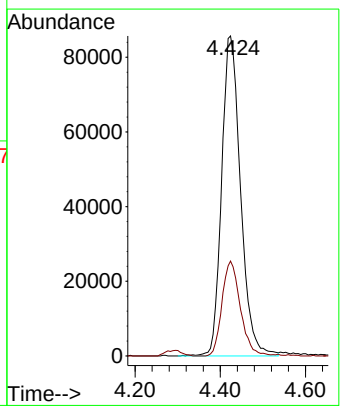
08/12/2024

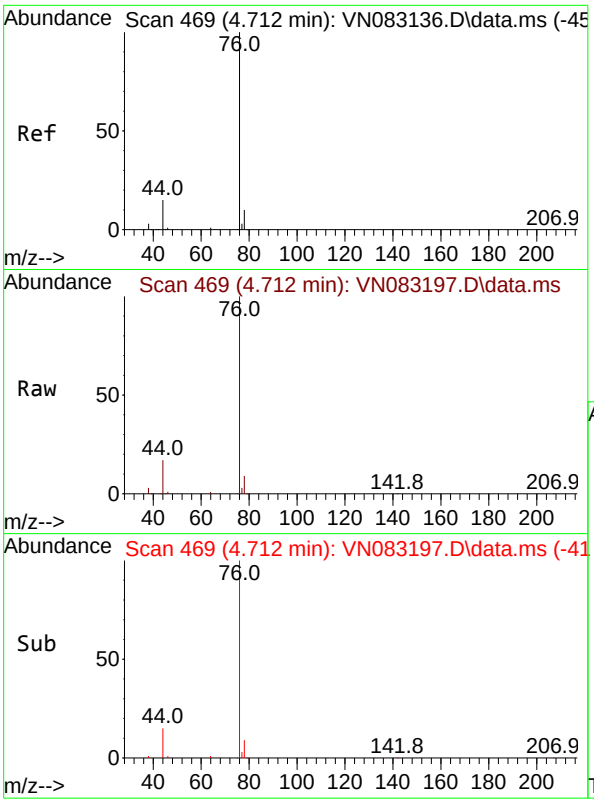


#16
Acetone
Concen: 249.969 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 43 Resp: 264296

Ion	Ratio	Lower	Upper
43	100		
58	29.1	21.8	32.6

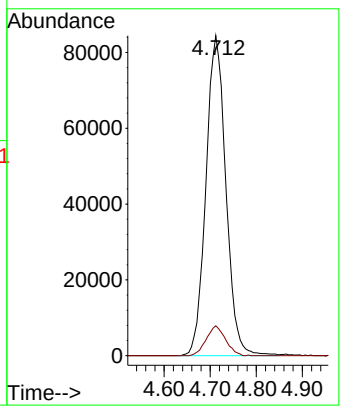




#17
Carbon Disulfide
Concen: 41.344 ug/l
RT: 4.712 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 76 Resp: 25456

Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.2	10.8



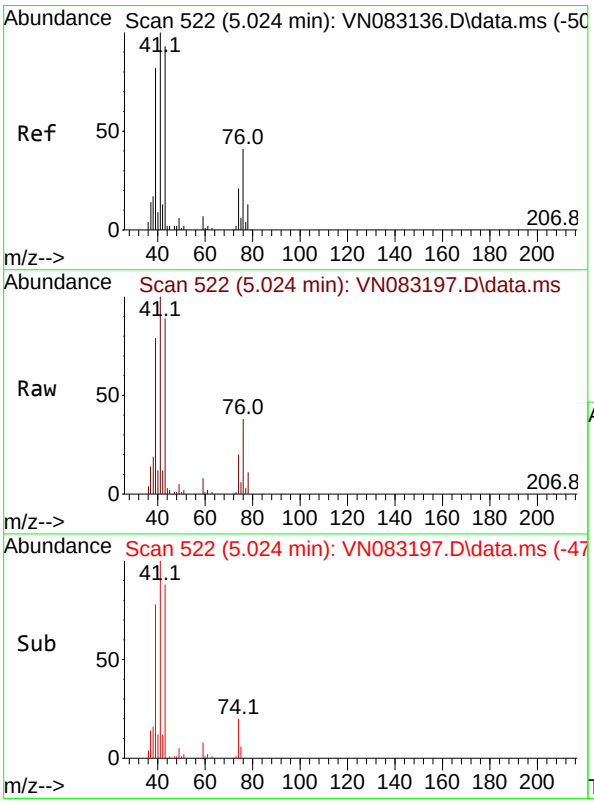
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John
Carlone

08/12/2024
Supervised By :Mahesh
Dadoda

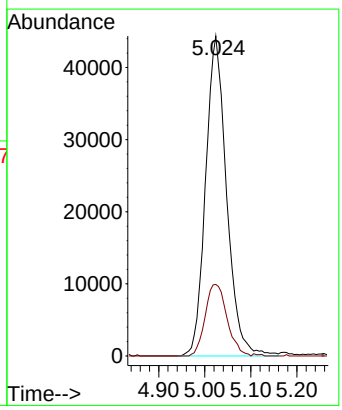
08/12/2024

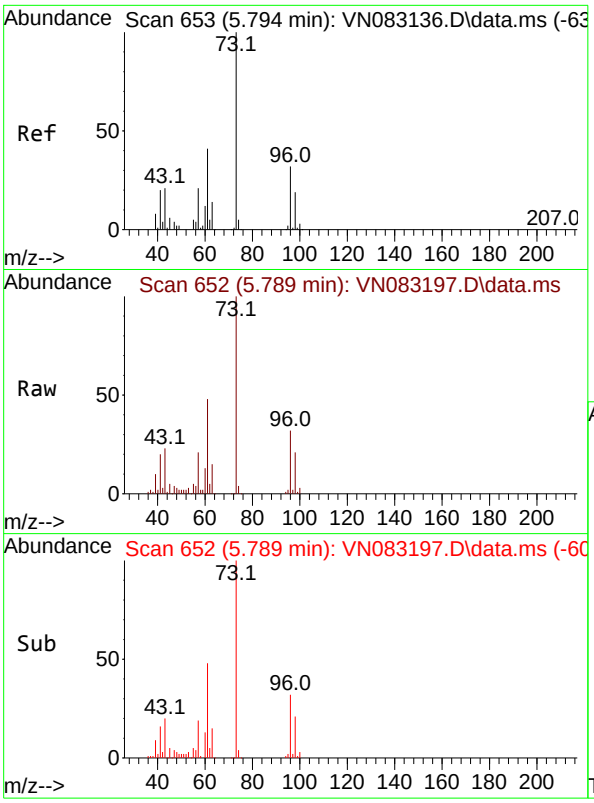


#18
Methyl Acetate
Concen: 44.631 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 43 Resp: 140596

Ion	Ratio	Lower	Upper
43	100		
74	23.3	16.3	24.5

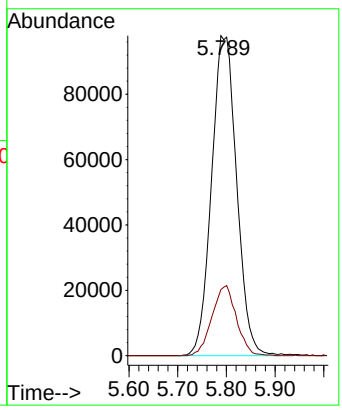




#19
Methyl tert-butyl Ether
Concen: 46.166 ug/l
RT: 5.789 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 73 Resp: 35065

Ion	Ratio	Lower	Upper
73	100		
57	20.6	17.9	26.9



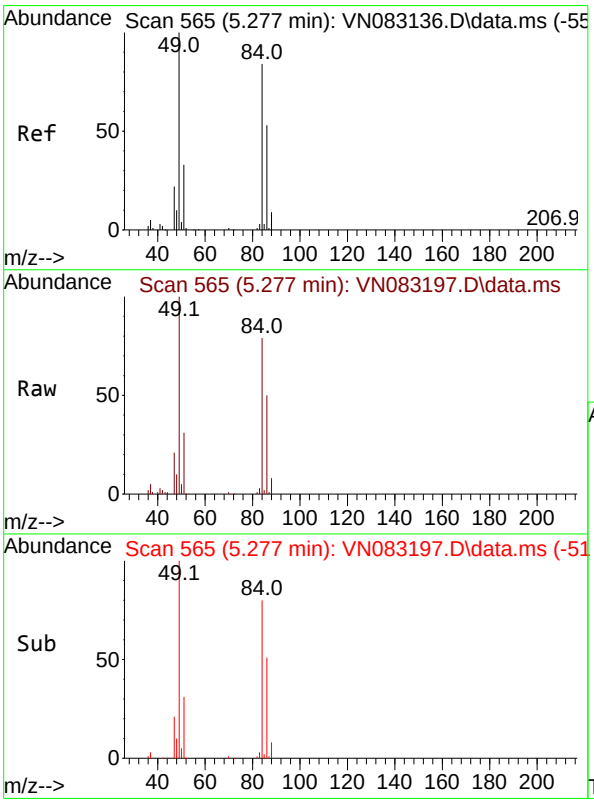
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone

08/12/2024
Supervised By :Mahesh Dadoda

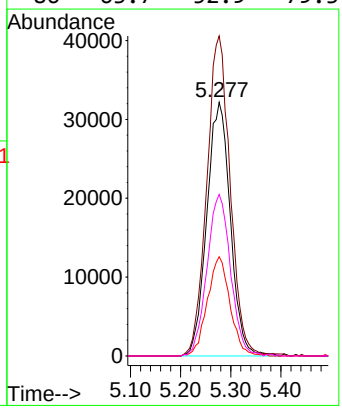
08/12/2024

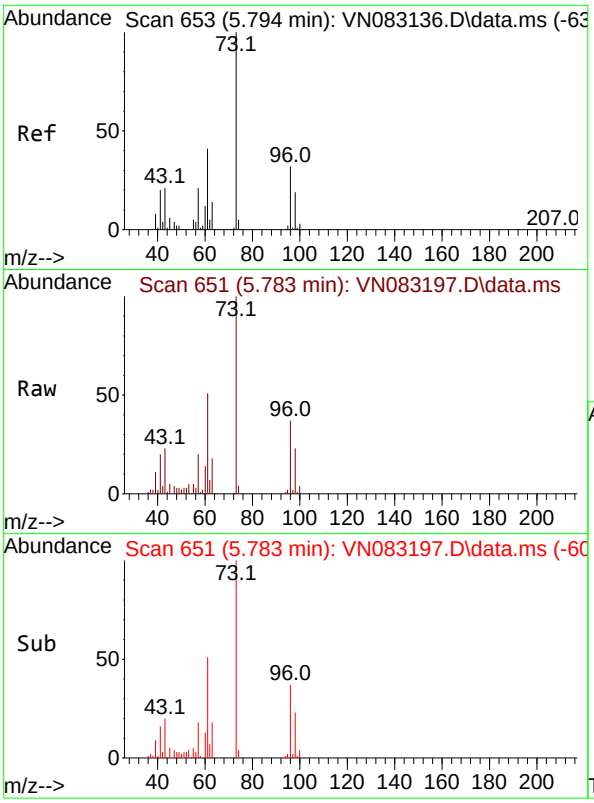


#20
Methylene Chloride
Concen: 43.166 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 84 Resp: 105039

Ion	Ratio	Lower	Upper
84	100		
49	126.2	119.6	179.4
51	39.1	34.8	52.2
86	63.7	52.9	79.3

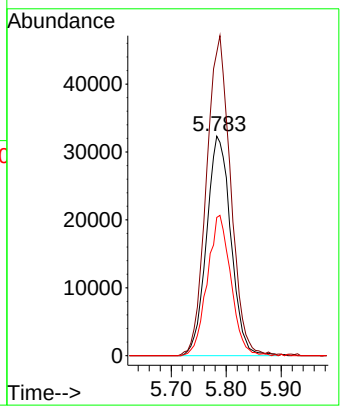




#21
trans-1,2-Dichloroethene
Concen: 45.728 ug/l
RT: 5.783 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 96 Resp: 9945

Ion	Ratio	Lower	Upper
96	100		
61	138.1	123.4	185.2
98	63.0	49.3	73.9



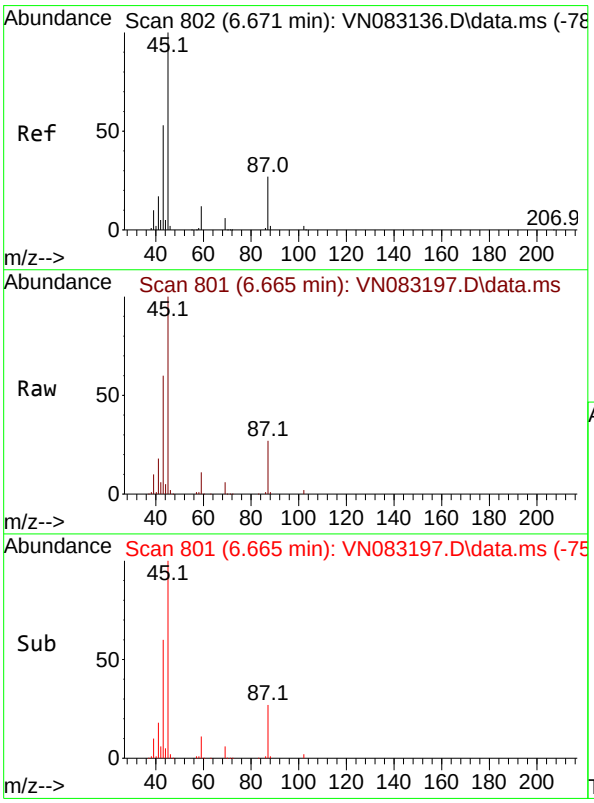
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone

08/12/2024
Supervised By :Mahesh Dadoda

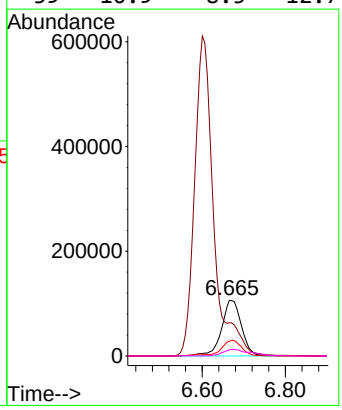
08/12/2024

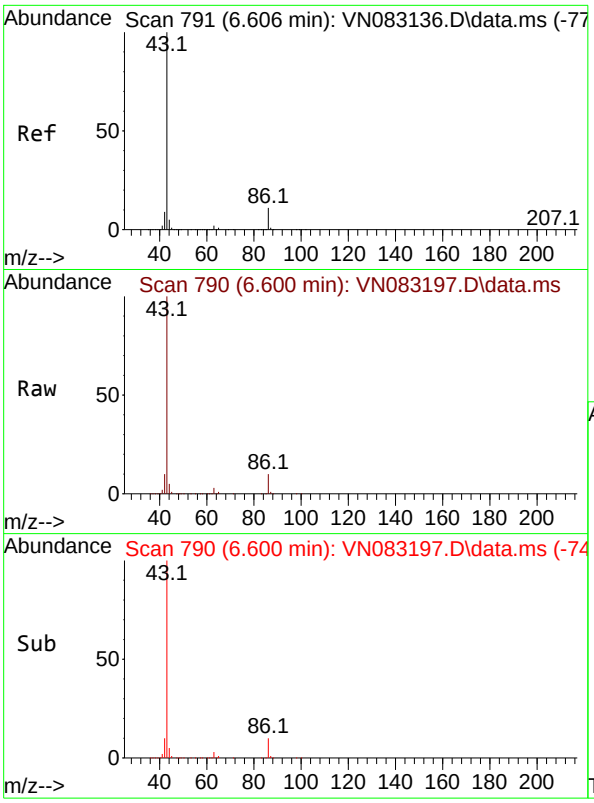


#22
Diisopropyl ether
Concen: 47.292 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.006 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 45 Resp: 353509

Ion	Ratio	Lower	Upper
45	100		
43	58.4	44.0	66.0
87	26.6	19.7	29.5
59	10.9	8.5	12.7

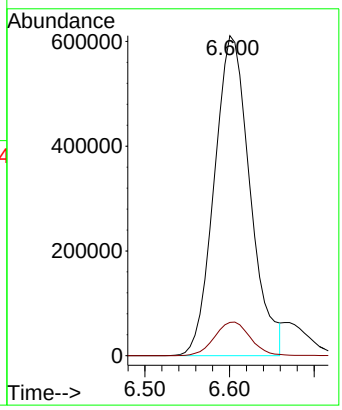




#23
Vinyl Acetate
Concen: 234.315 ug/l m
RT: 6.600 min Scan# 7
Delta R.T. -0.006 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 43 Resp: 179528

Ion	Ratio	Lower	Upper
43	100		
86	10.4	7.3	10.9



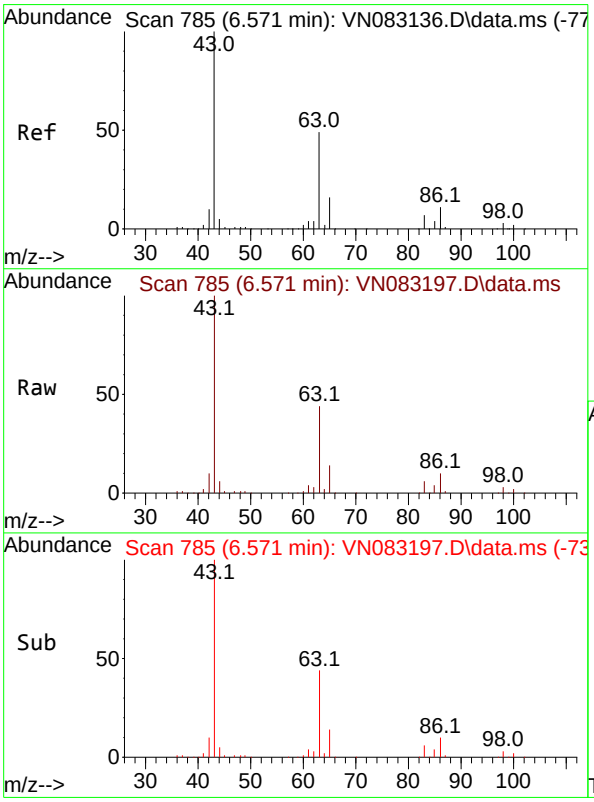
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone

08/12/2024
Supervised By :Mahesh Dadoda

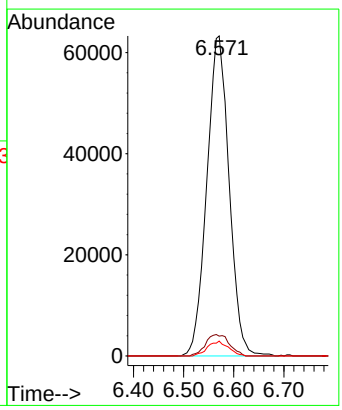
08/12/2024

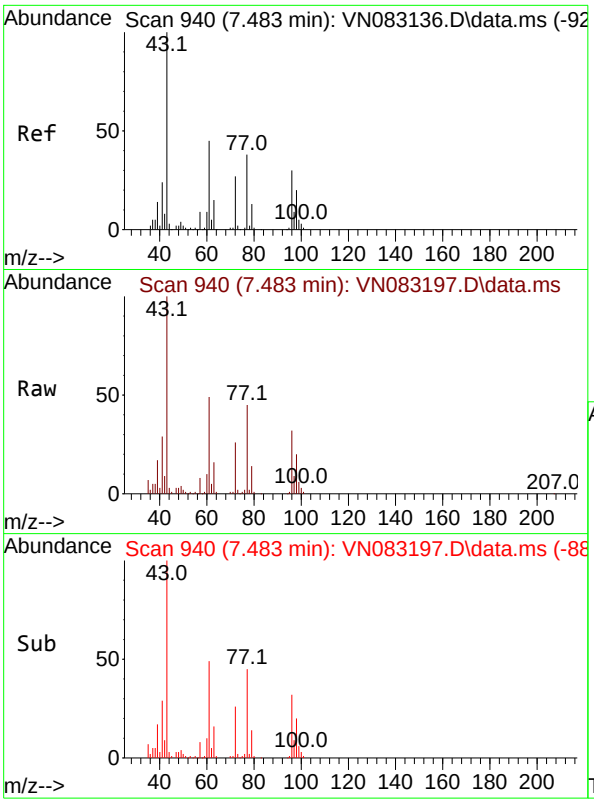


#24
1,1-Dichloroethane
Concen: 47.971 ug/l
RT: 6.571 min Scan# 785
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 63 Resp: 195454

Ion	Ratio	Lower	Upper
63	100		
98	6.2	3.3	9.9
100	4.7	2.0	6.0

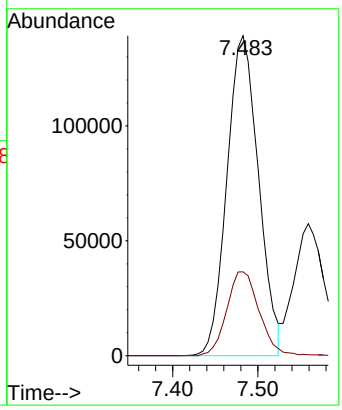




#25
2-Butanone
Concen: 221.113 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 43 Resp: 35897

Ion	Ratio	Lower	Upper
43	100		
72	26.2	18.2	27.2



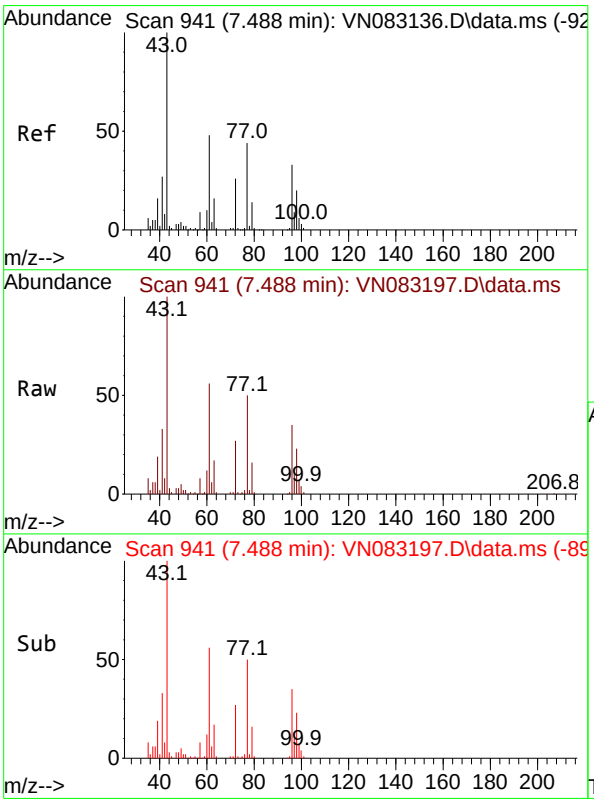
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone

08/12/2024
Supervised By :Mahesh Dadoda

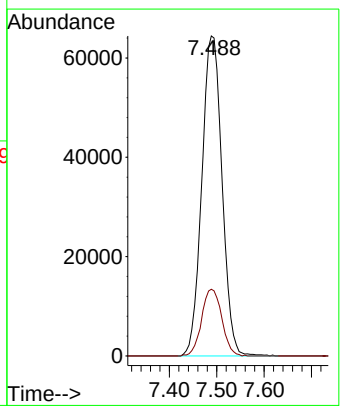
08/12/2024

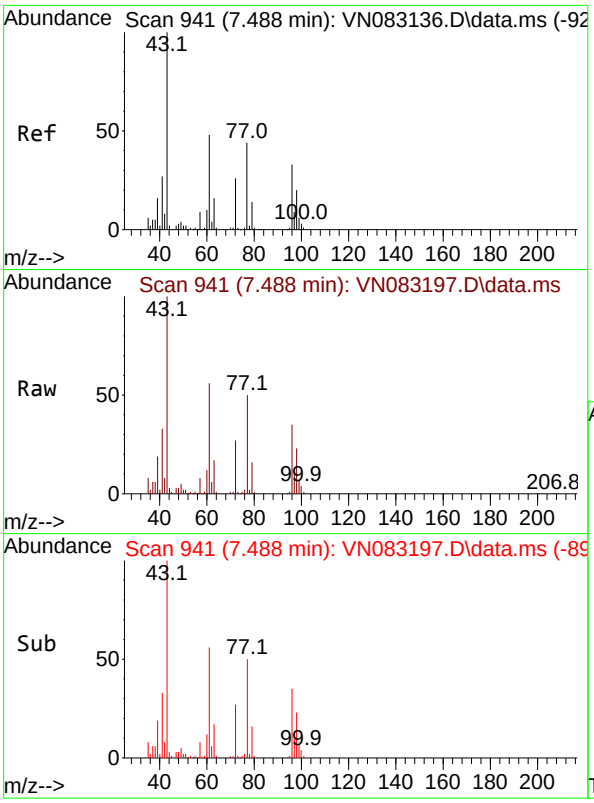


#26
2,2-Dichloropropane
Concen: 50.494 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 77 Resp: 191062

Ion	Ratio	Lower	Upper
77	100		
97	20.8	10.3	30.9

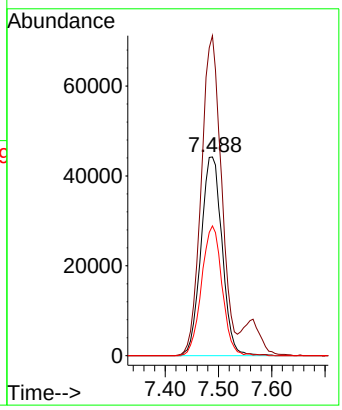




#27
cis-1,2-Dichloroethene
Concen: 46.435 ug/l
RT: 7.488 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 96 Resp: 12186

Ion	Ratio	Lower	Upper
96	100		
61	154.1	0.0	329.6
98	63.7	0.0	128.6



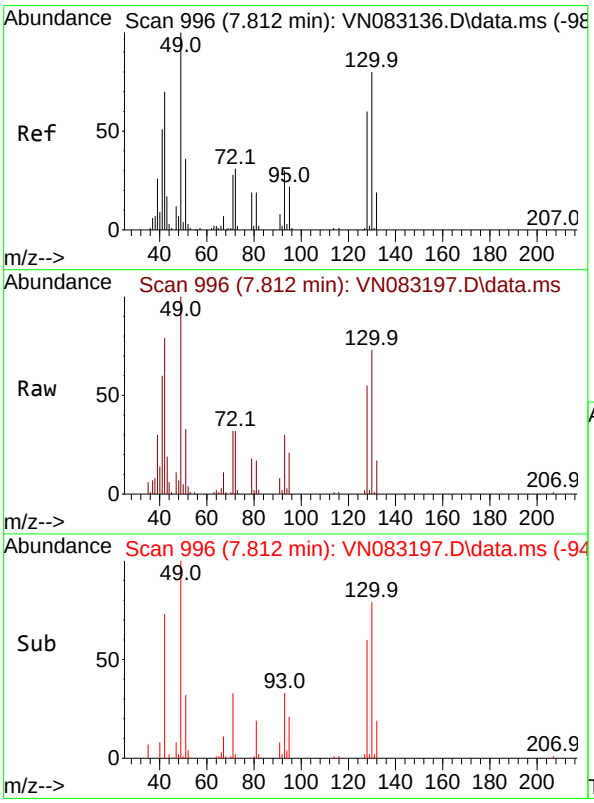
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone

08/12/2024
Supervised By :Mahesh Dadoda

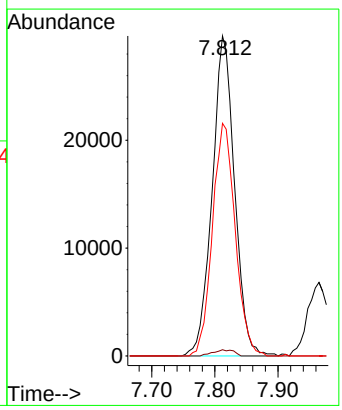
08/12/2024

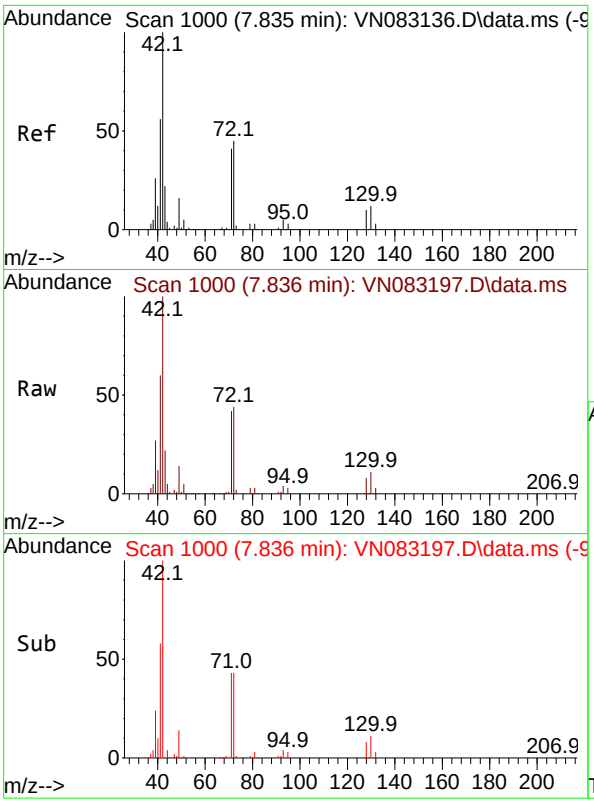


#28
Bromochloromethane
Concen: 43.873 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 49 Resp: 73053

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.8
130	74.1	50.5	75.7

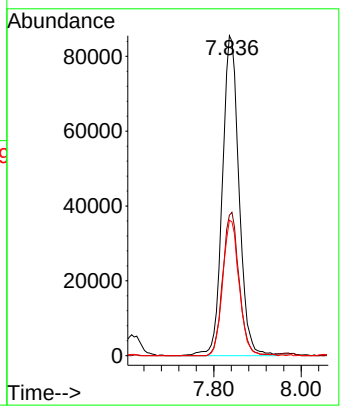




#29
Tetrahydrofuran
Concen: 215.054 ug/l
RT: 7.836 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 42 Resp: 22569

Ion	Ratio	Lower	Upper
42	100		
72	44.0	30.0	45.0
71	41.8	28.3	42.5



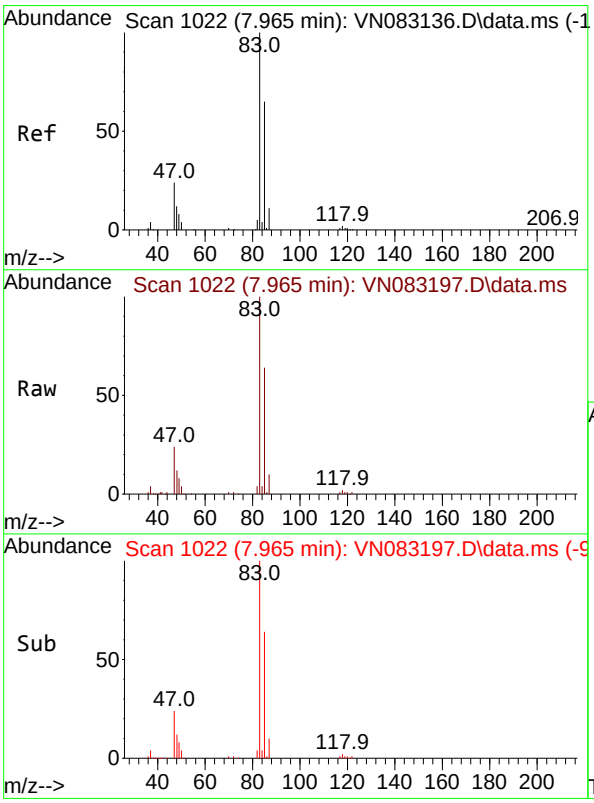
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John
Carlone

08/12/2024
Supervised By :Mahesh
Dadoda

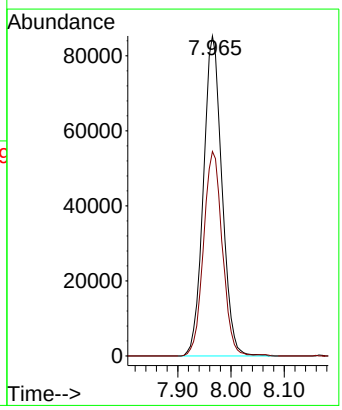
08/12/2024

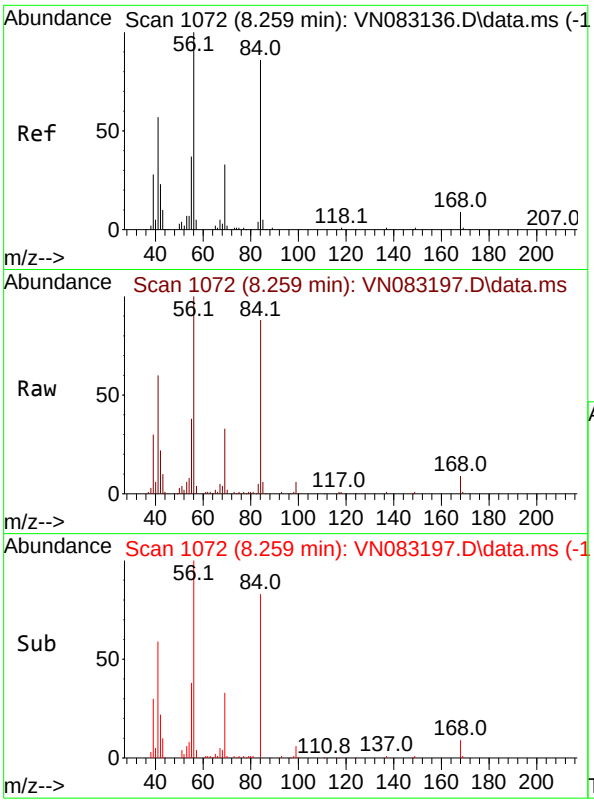


#30
Chloroform
Concen: 48.778 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 83 Resp: 206475

Ion	Ratio	Lower	Upper
83	100		
85	63.9	50.9	76.3

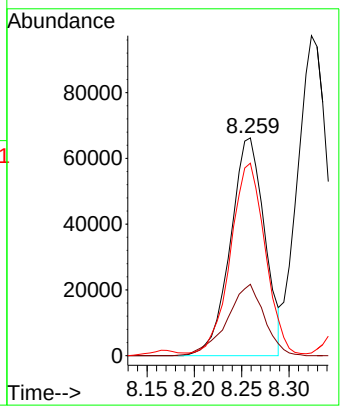




#31
Cyclohexane
Concen: 41.601 ug/l
RT: 8.259 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 56 Resp: 16658

Ion	Ratio	Lower	Upper
56	100		
69	32.5	24.5	36.7
84	87.1	66.0	99.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

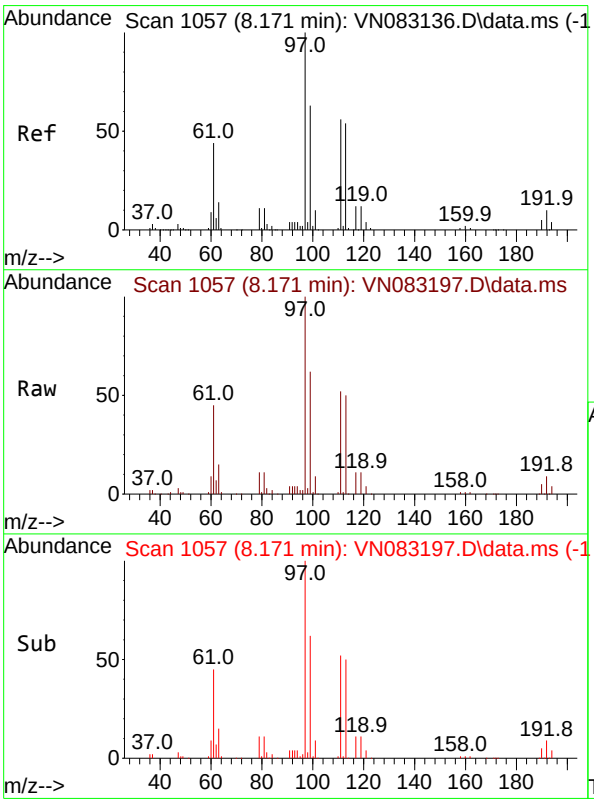
Manual Integrations
APPROVED

Reviewed By :John Carlone

08/12/2024

Supervised By :Mahesh Dadoda

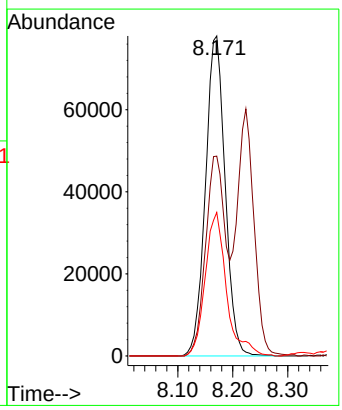
08/12/2024

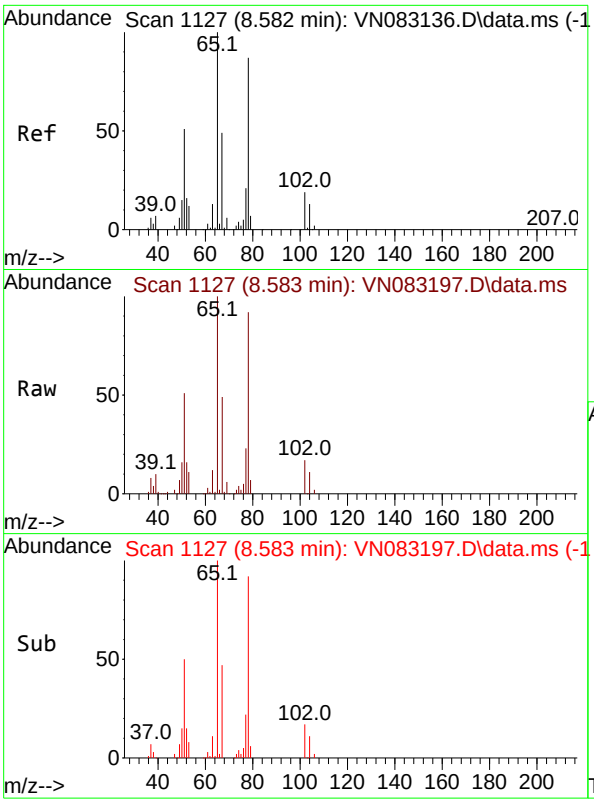


#32
1,1,1-Trichloroethane
Concen: 48.369 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 97 Resp: 193801

Ion	Ratio	Lower	Upper
97	100		
99	62.8	52.0	78.0
61	48.5	42.1	63.1

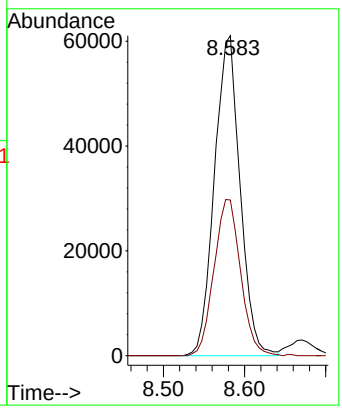




#33
1,2-Dichloroethane-d4
Concen: 49.606 ug/l
RT: 8.583 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 65 Resp: 13403

Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	104.4



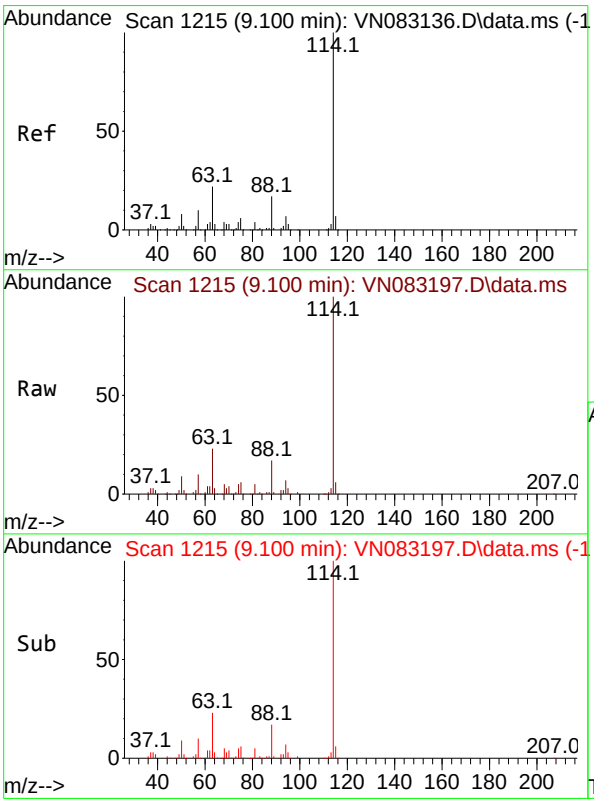
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone

08/12/2024
Supervised By :Mahesh Dadoda

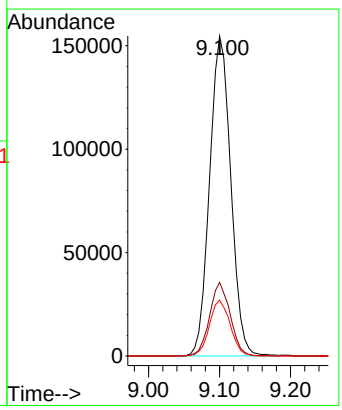
08/12/2024

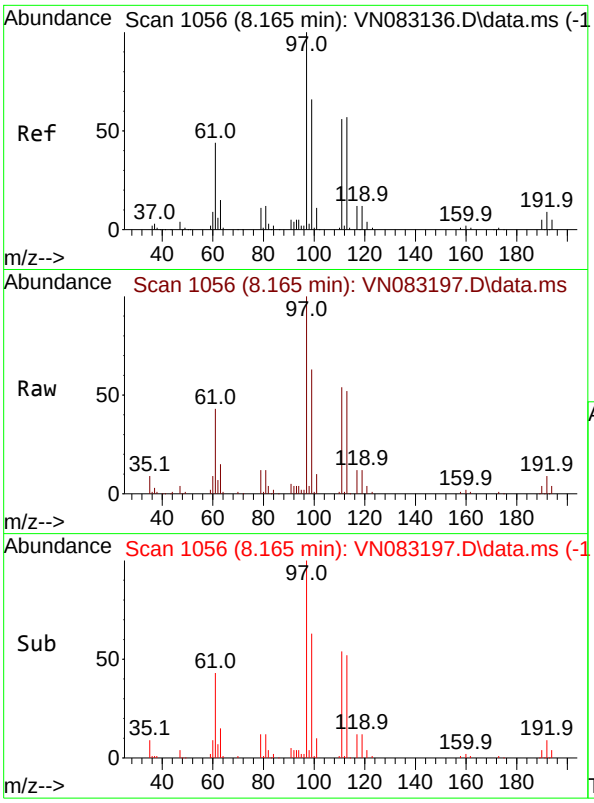


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:114 Resp: 320853

Ion	Ratio	Lower	Upper
114	100		
63	23.0	0.0	44.6
88	17.5	0.0	31.4

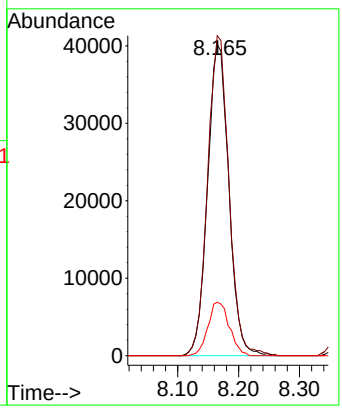




#35
Dibromofluoromethane
Concen: 48.770 ug/l
RT: 8.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:113 Resp: 9767

Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.4	123.6
192	17.2	14.9	22.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

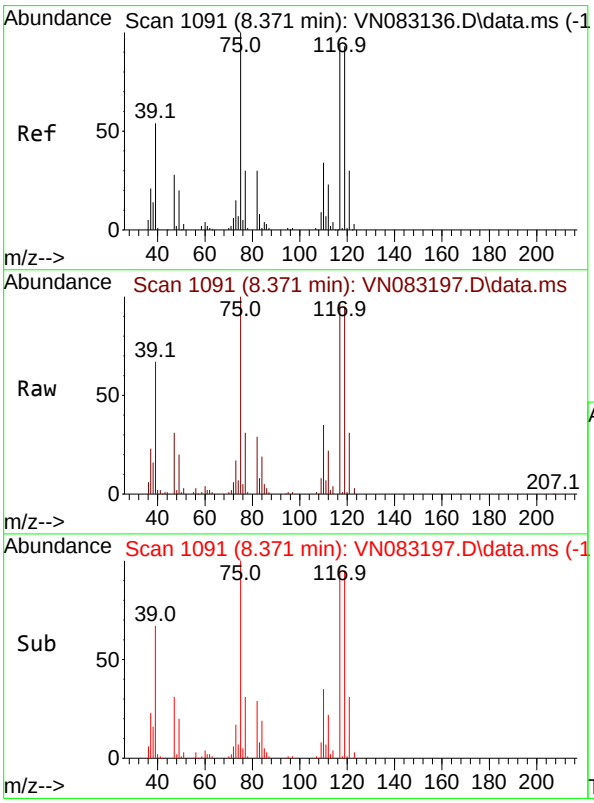
Manual Integrations
APPROVED

Reviewed By :John Carlone

08/12/2024

Supervised By :Mahesh Dadoda

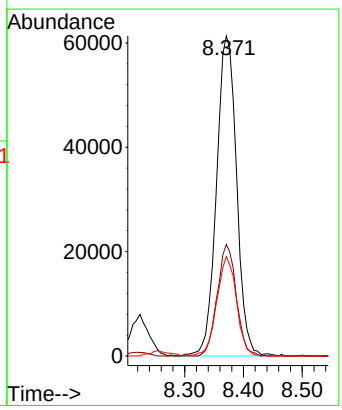
08/12/2024

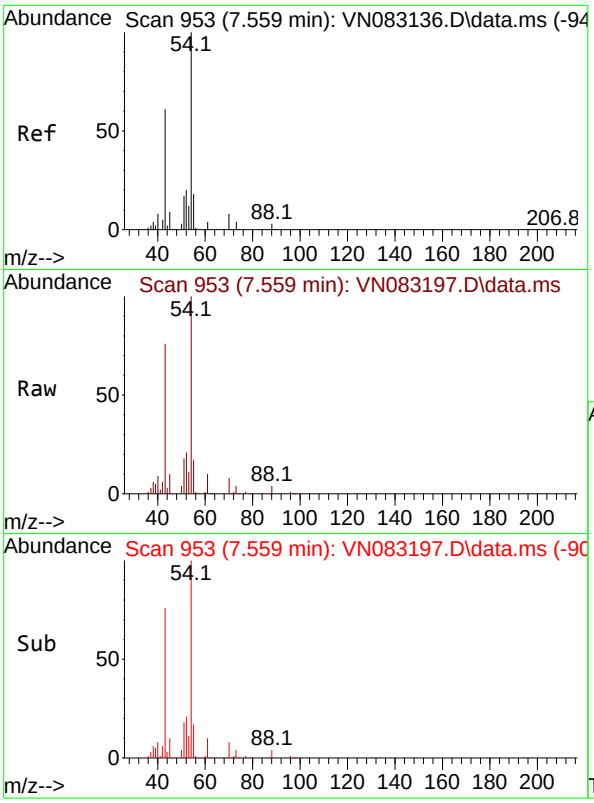


#36
1,1-Dichloropropene
Concen: 48.071 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 75 Resp: 145632

Ion	Ratio	Lower	Upper
75	100		
110	33.0	16.3	48.9
77	30.4	24.6	37.0

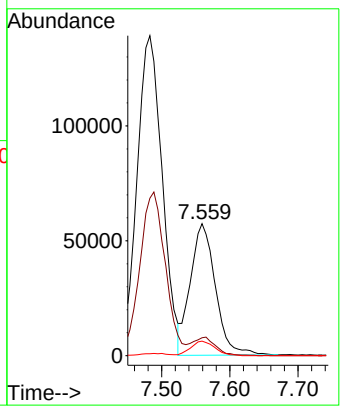




#37
Ethyl Acetate
Concen: 43.184 ug/l
RT: 7.559 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 43 Resp: 14648

Ion	Ratio	Lower	Upper
43	100		
61	13.2	9.3	13.9
70	10.6	7.0	10.6



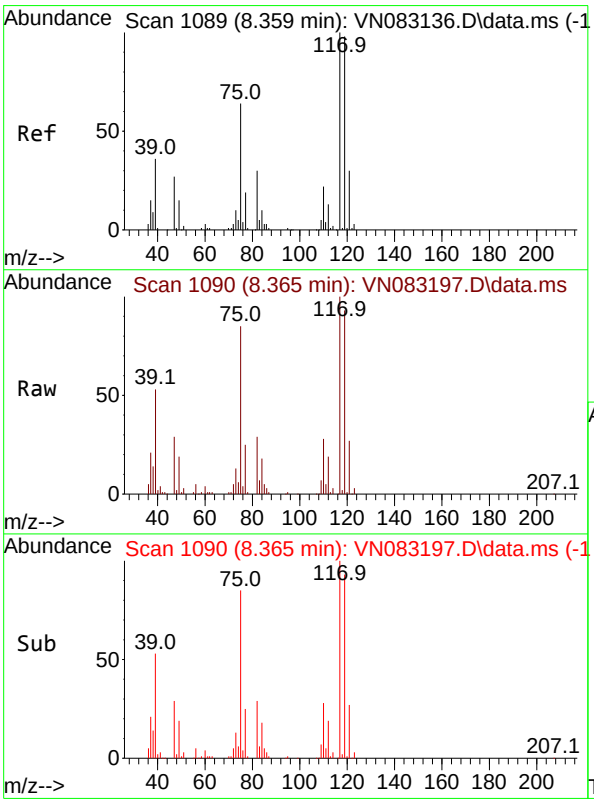
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone

08/12/2024
Supervised By :Mahesh Dadoda

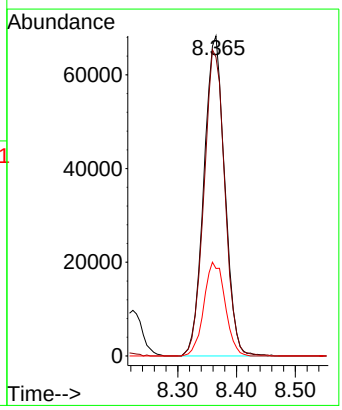
08/12/2024

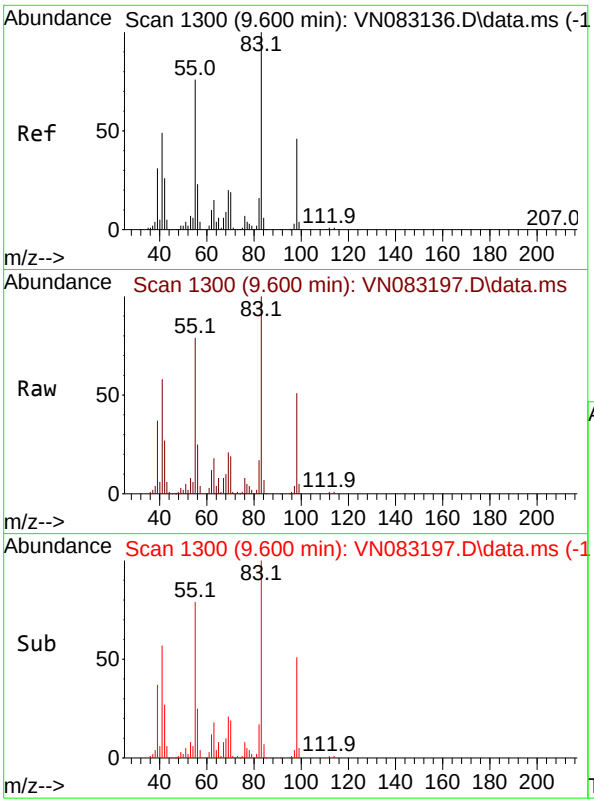


#38
Carbon Tetrachloride
Concen: 49.098 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.006 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:117 Resp: 167532

Ion	Ratio	Lower	Upper
117	100		
119	93.4	74.9	112.3
121	27.3	24.3	36.5

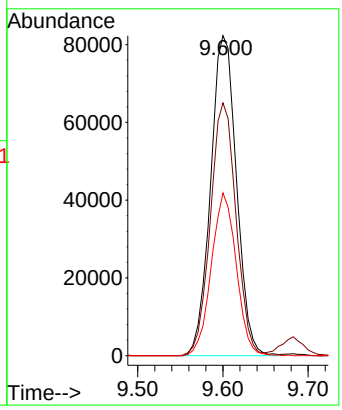




#39
Methylcyclohexane
Concen: 46.750 ug/l
RT: 9.600 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 83 Resp: 17396

Ion	Ratio	Lower	Upper
83	100		
55	79.0	66.4	99.6
98	50.9	40.7	61.1



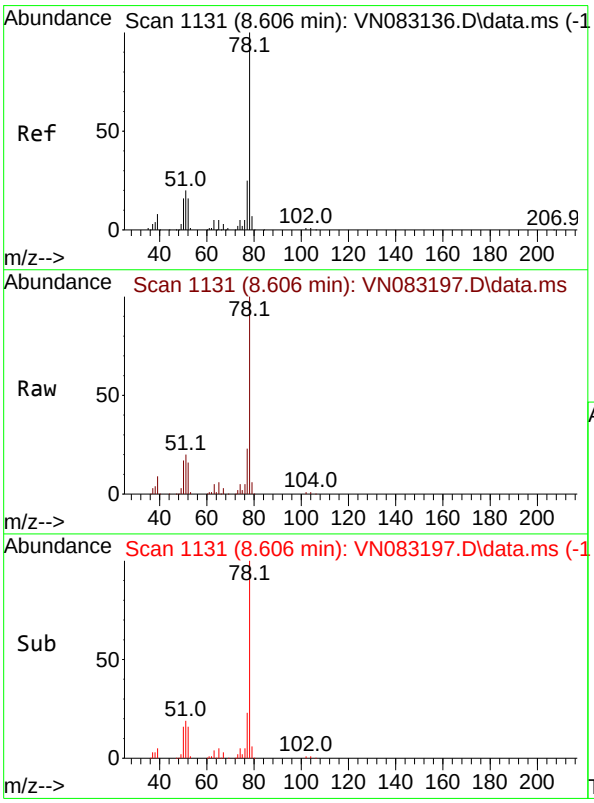
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John
Carlone

08/12/2024
Supervised By :Mahesh
Dadoda

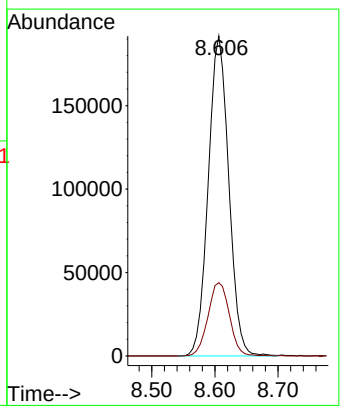
08/12/2024

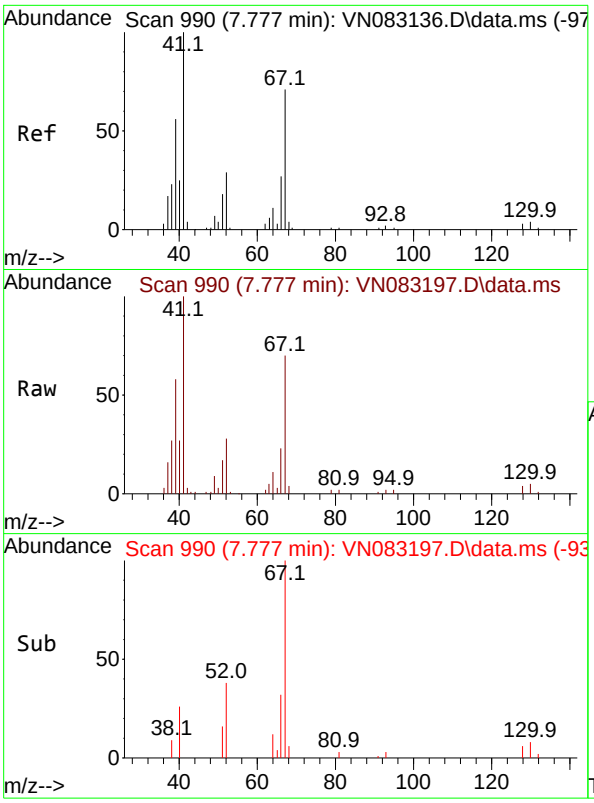


#40
Benzene
Concen: 47.915 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 78 Resp: 432436

Ion	Ratio	Lower	Upper
78	100		
77	22.9	19.0	28.4

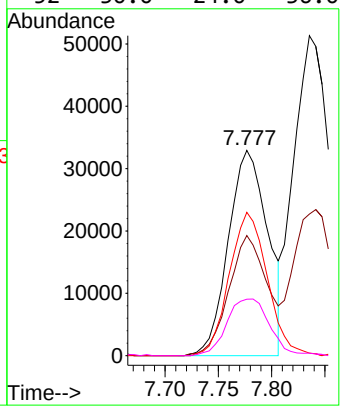




#41
Methacrylonitrile
Concen: 43.992 ug/l
RT: 7.777 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 41 Resp: 8484

Ion	Ratio	Lower	Upper
41	100		
39	56.8	45.5	68.3
67	67.2	50.5	75.7
52	30.0	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

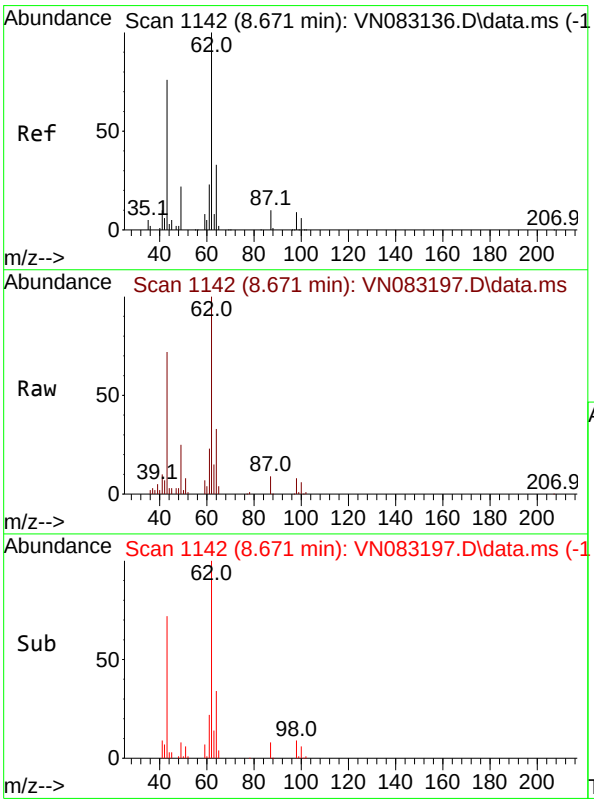
Manual Integrations
APPROVED

Reviewed By :John Carlone

08/12/2024

Supervised By :Mahesh Dadoda

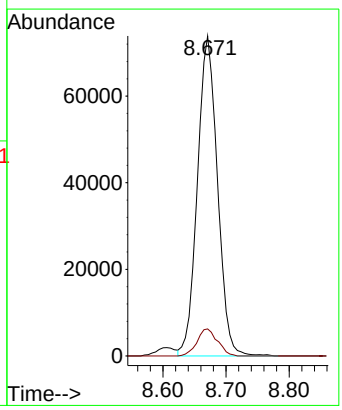
08/12/2024

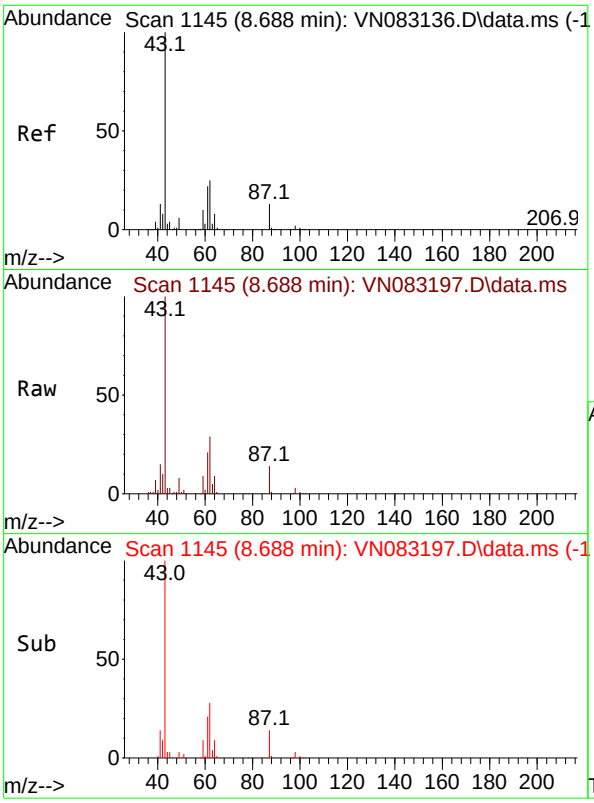


#42
1,2-Dichloroethane
Concen: 49.615 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 62 Resp: 163117

Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	15.8

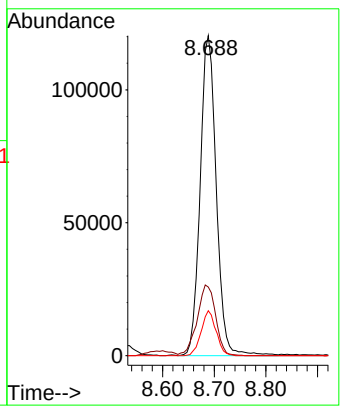




#43
Isopropyl Acetate
Concen: 43.999 ug/l
RT: 8.688 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 43 Resp: 26107

Ion	Ratio	Lower	Upper
43	100		
61	25.3	17.8	26.6
87	13.0	8.2	12.2



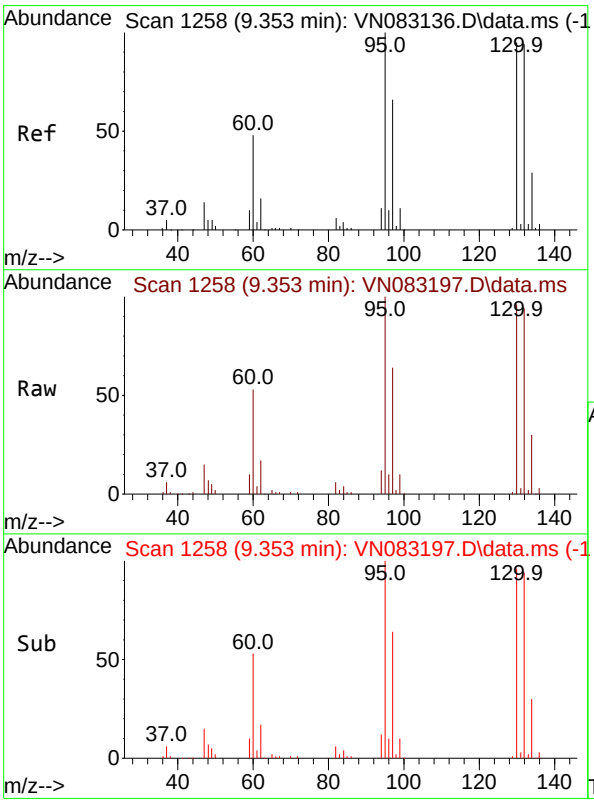
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone

08/12/2024
Supervised By :Mahesh Dadoda

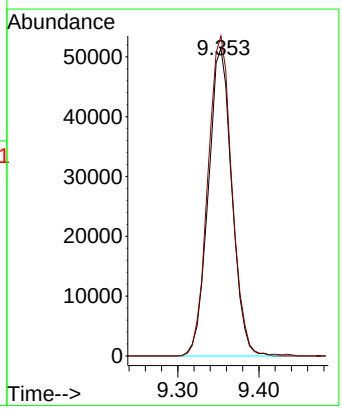
08/12/2024

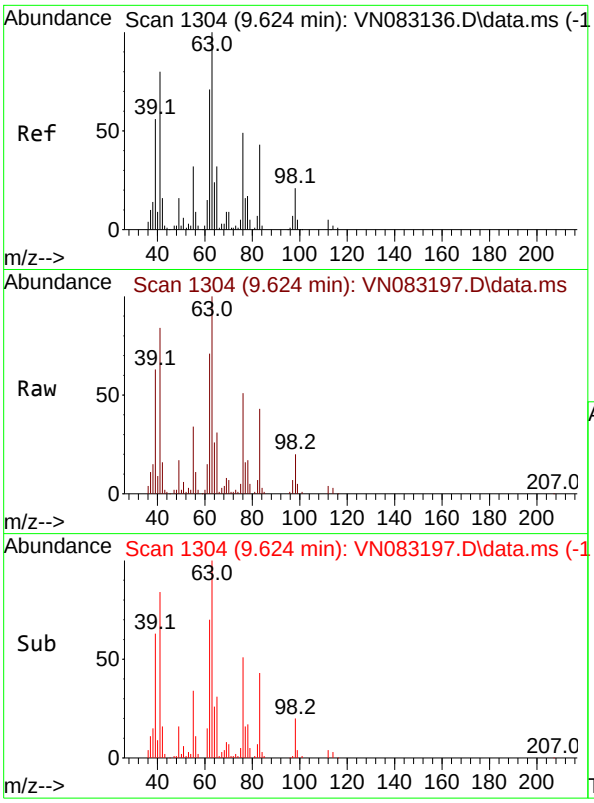


#44
Trichloroethene
Concen: 48.199 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:130 Resp: 103538

Ion	Ratio	Lower	Upper
130	100		
95	104.0	0.0	197.8

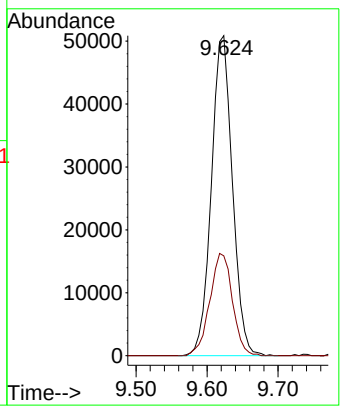




#45
1,2-Dichloropropane
Concen: 48.825 ug/l
RT: 9.624 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 63 Resp: 10459

Ion	Ratio	Lower	Upper
63	100		
65	31.2	24.4	36.6



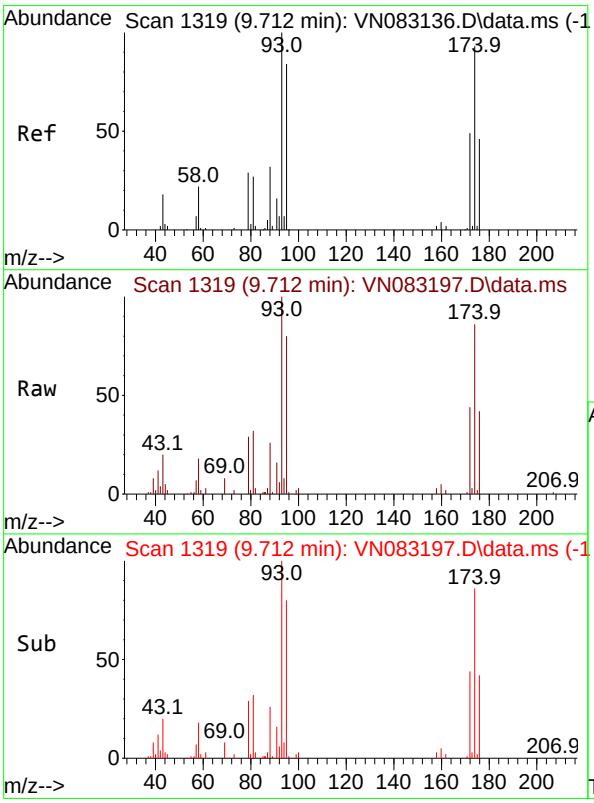
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John
Carlone

08/12/2024
Supervised By :Mahesh
Dadoda

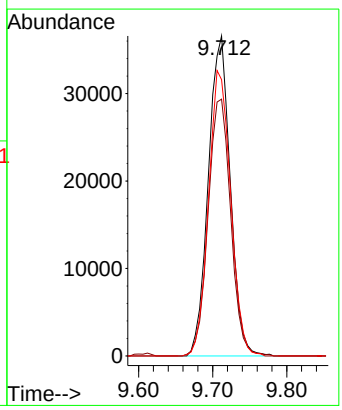
08/12/2024

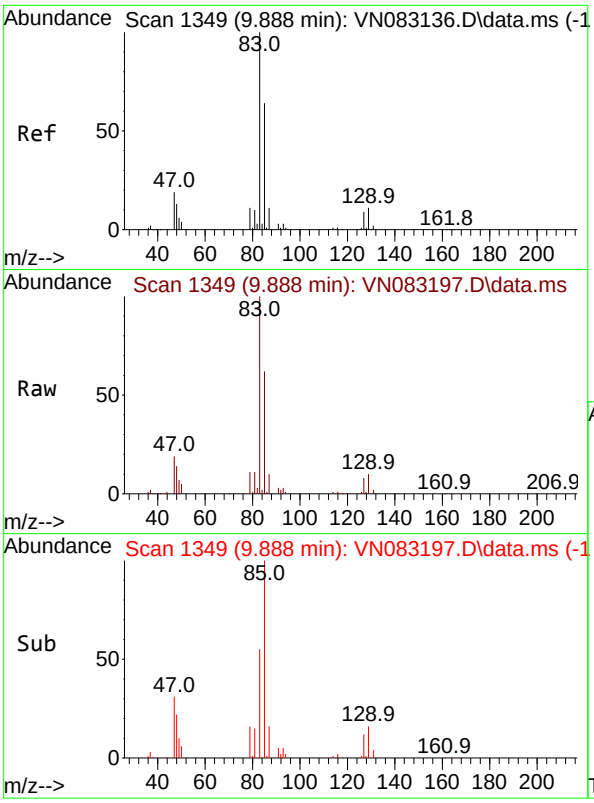


#46
Dibromomethane
Concen: 49.042 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 93 Resp: 75201

Ion	Ratio	Lower	Upper
93	100		
95	82.6	65.8	98.6
174	90.2	71.7	107.5

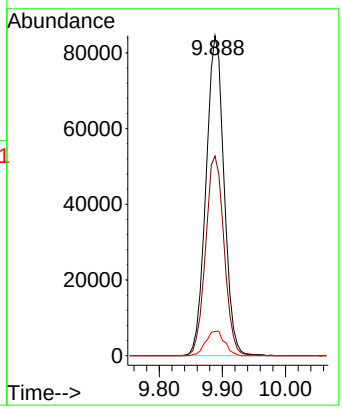




#47
Bromodichloromethane
Concen: 48.534 ug/l
RT: 9.888 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 83 Resp: 16710

Ion	Ratio	Lower	Upper
83	100		
85	62.4	51.1	76.7
127	7.6	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

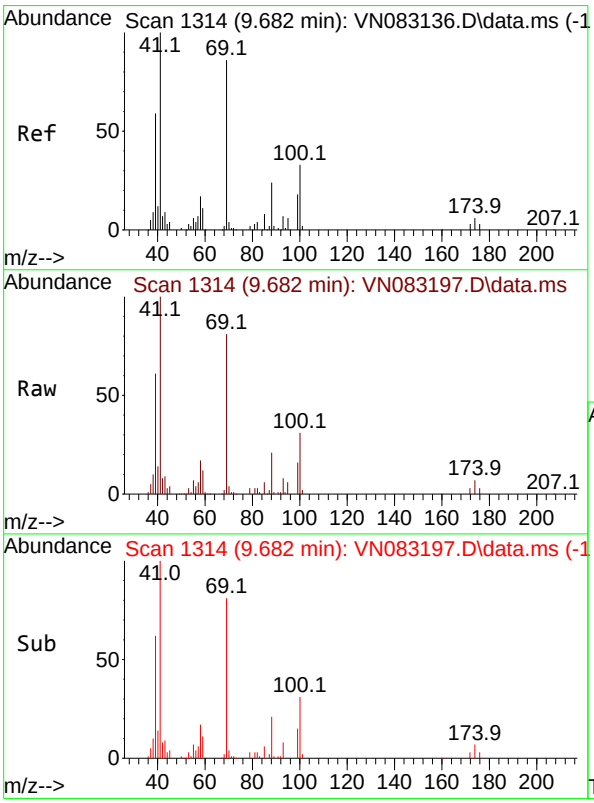
Manual Integrations
APPROVED

Reviewed By :John Carlone

08/12/2024

Supervised By :Mahesh Dadoda

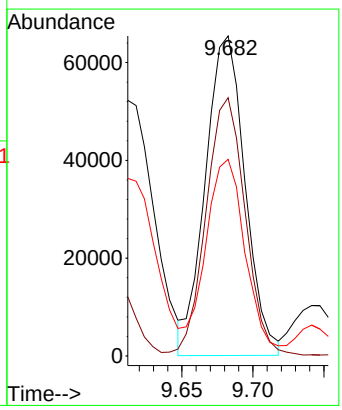
08/12/2024

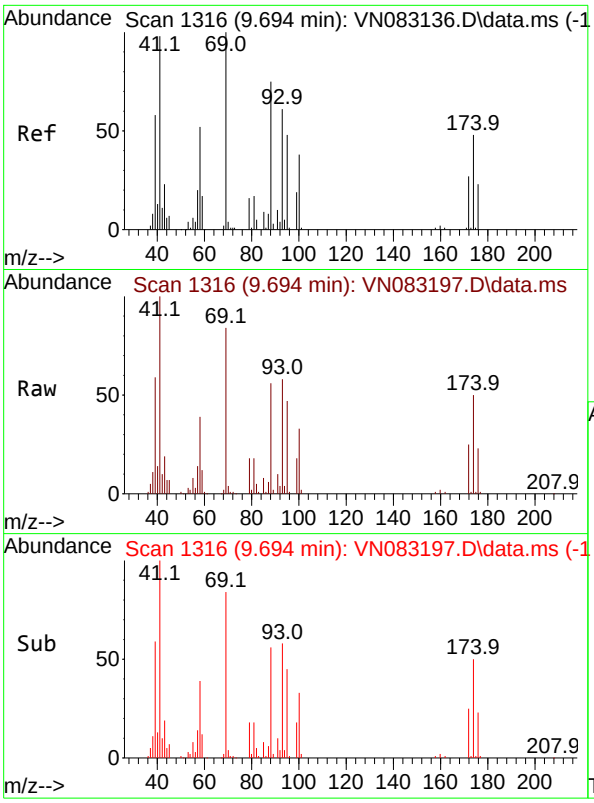


#48
Methyl methacrylate
Concen: 45.268 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 41 Resp: 126948

Ion	Ratio	Lower	Upper
41	100		
69	80.6	56.3	84.5
39	62.3	50.3	75.5

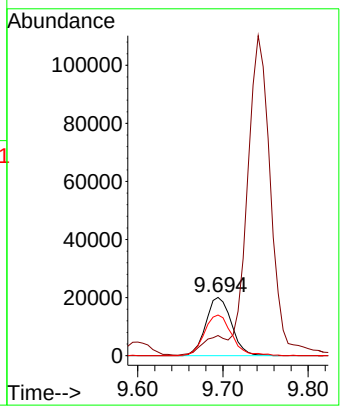




#49
1,4-Dioxane
Concen: 827.792 ug/l
RT: 9.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 88 Resp: 4188

Ion	Ratio	Lower	Upper
88	100		
43	31.7	27.8	41.8
58	74.8	59.4	89.0



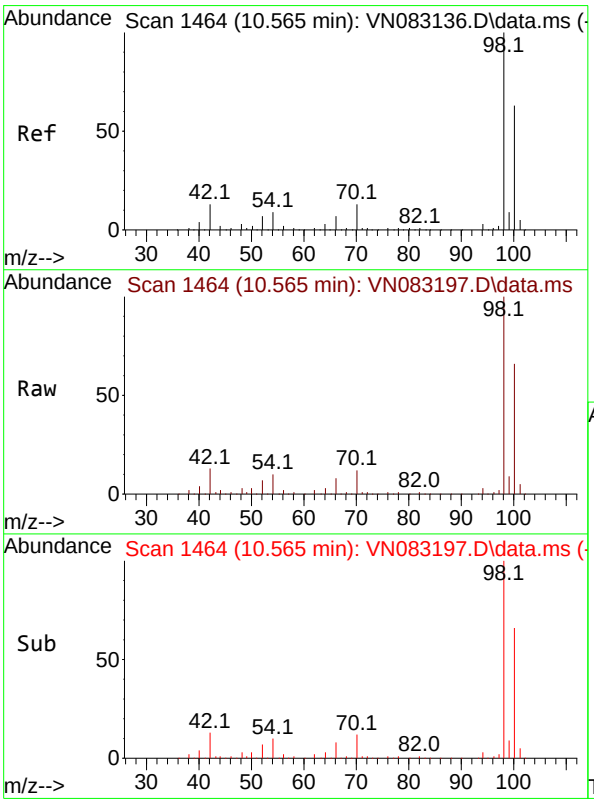
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone

08/12/2024
Supervised By :Mahesh Dadoda

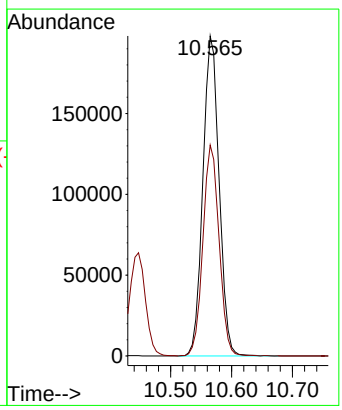
08/12/2024

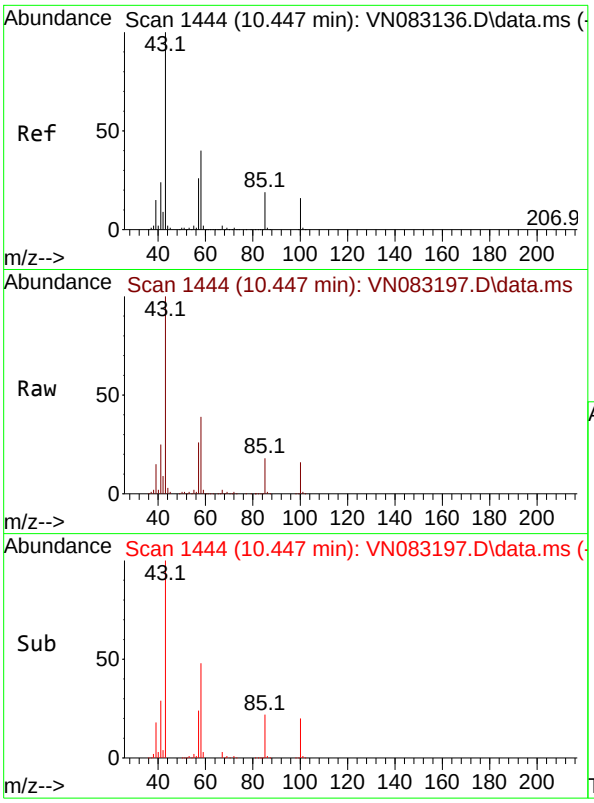


#50
Toluene-d8
Concen: 49.024 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 98 Resp: 366237

Ion	Ratio	Lower	Upper
98	100		
100	65.7	51.5	77.3

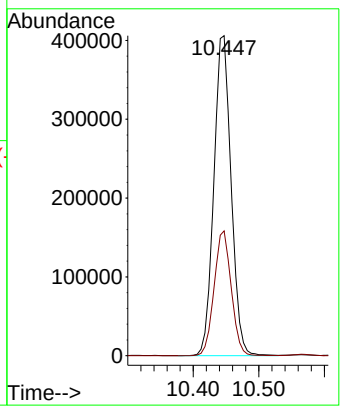




#51
4-Methyl-2-Pentanone
Concen: 230.946 ug/l
RT: 10.447 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 43 Resp: 74079

Ion	Ratio	Lower	Upper
43	100		
58	38.7	28.2	42.4



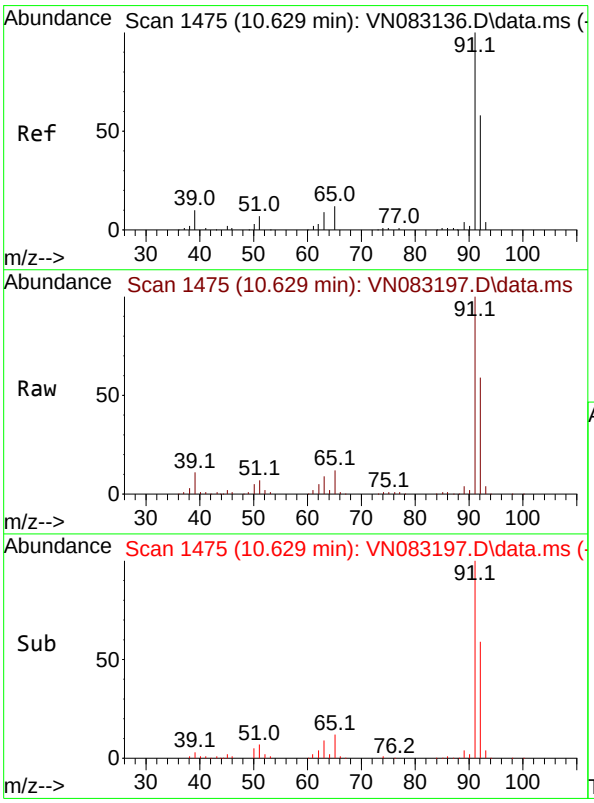
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John
Carlone

08/12/2024
Supervised By :Mahesh
Dadoda

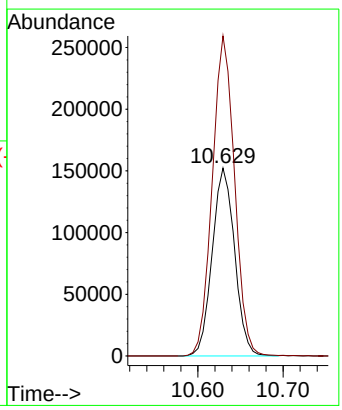
08/12/2024

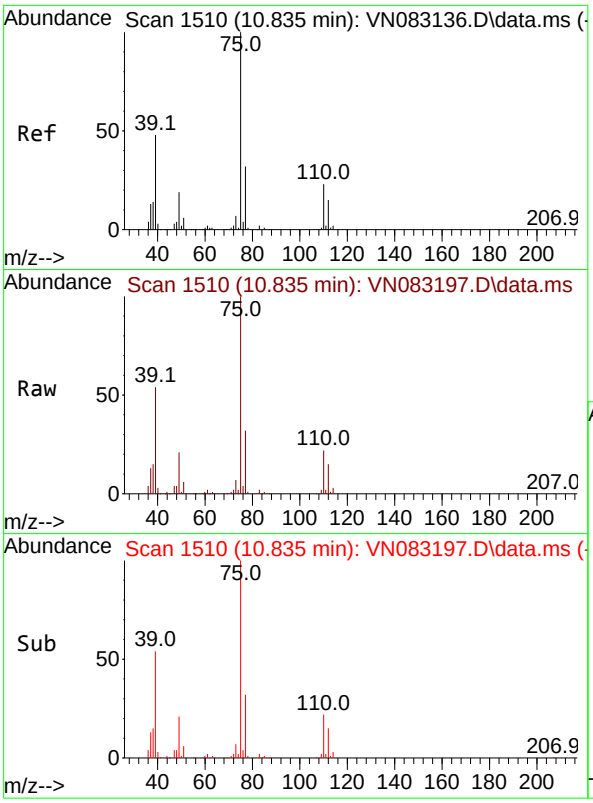


#52
Toluene
Concen: 48.819 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 92 Resp: 278386

Ion	Ratio	Lower	Upper
92	100		
91	169.8	139.4	209.0

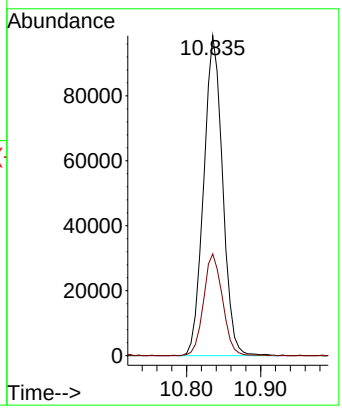




#53
t-1,3-Dichloropropene
Concen: 49.432 ug/l
RT: 10.835 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 75 Resp: 17482

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

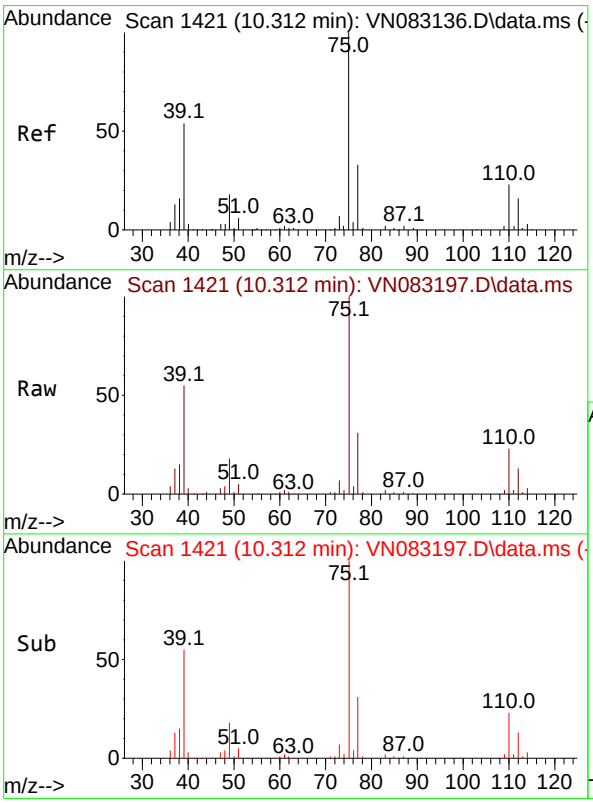
Manual Integrations
APPROVED

Reviewed By :John Carlone

08/12/2024

Supervised By :Mahesh Dadoda

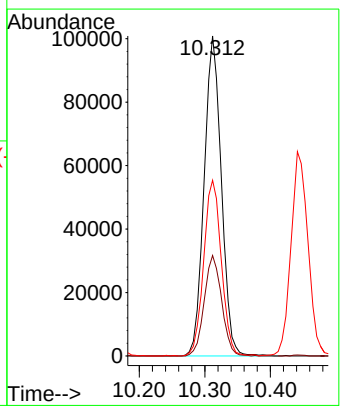
08/12/2024

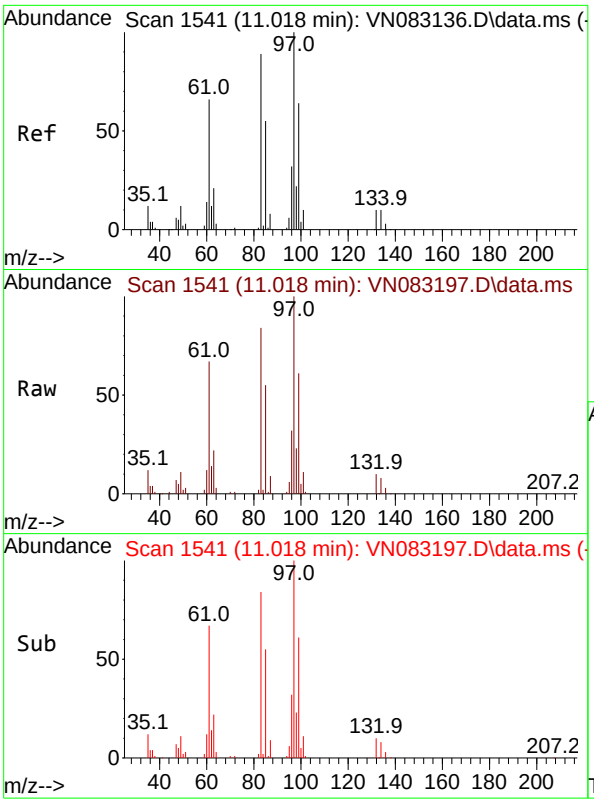


#54
cis-1,3-Dichloropropene
Concen: 49.003 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 75 Resp: 184336

Ion	Ratio	Lower	Upper
75	100		
77	31.4	24.3	36.5
39	54.9	50.5	75.7

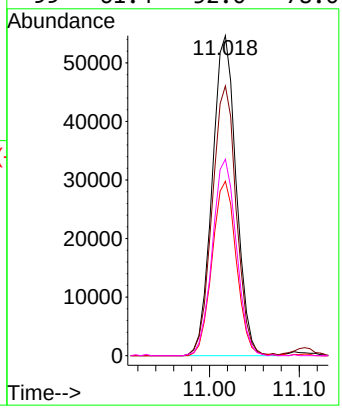




#55
1,1,2-Trichloroethane
Concen: 49.523 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 97 Resp: 10120

Ion	Ratio	Lower	Upper
97	100		
83	84.3	71.4	107.0
85	54.5	45.8	68.6
99	61.4	52.0	78.0



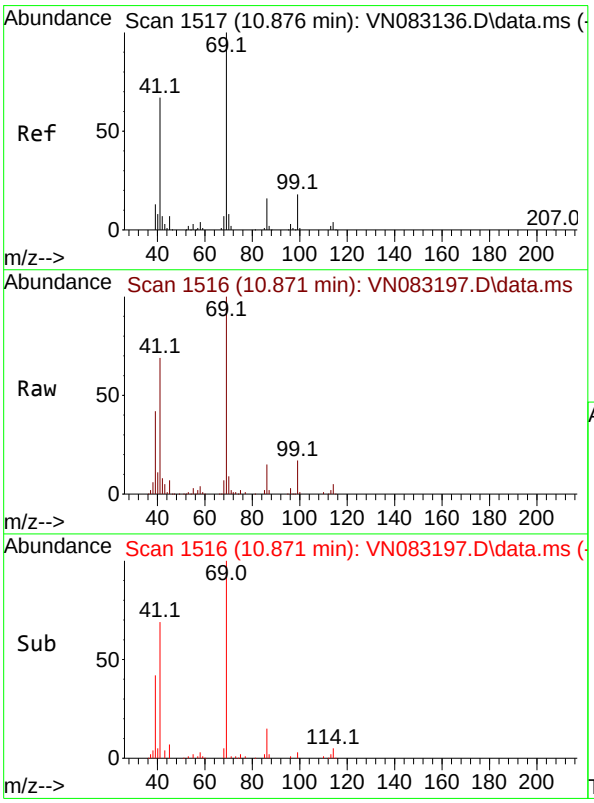
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone

08/12/2024
Supervised By :Mahesh Dadoda

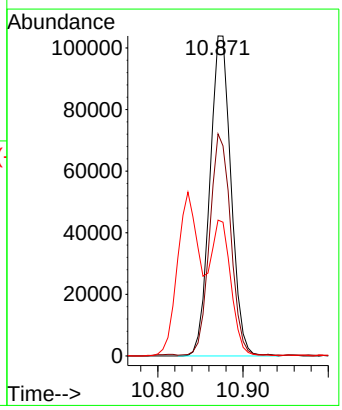
08/12/2024

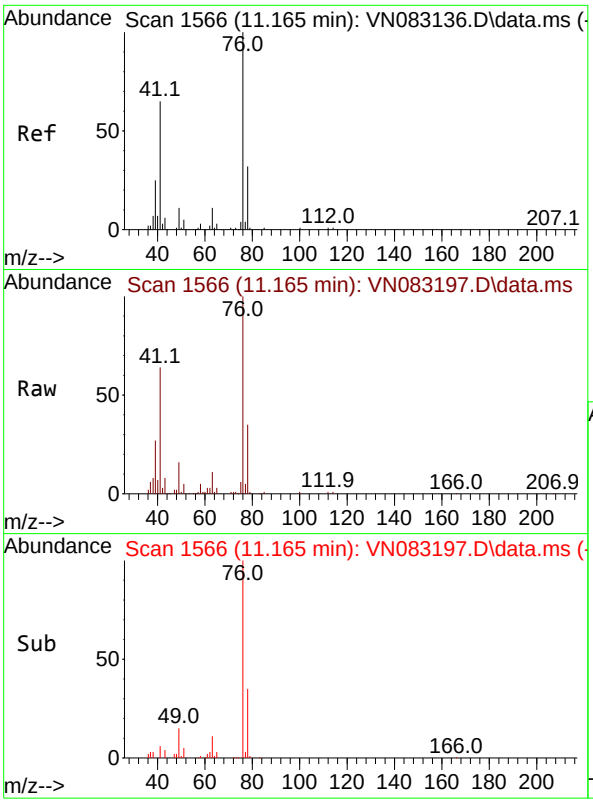


#56
Ethyl methacrylate
Concen: 46.507 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.006 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 69 Resp: 179166

Ion	Ratio	Lower	Upper
69	100		
41	68.6	63.4	95.2
39	36.6	37.4	56.0#

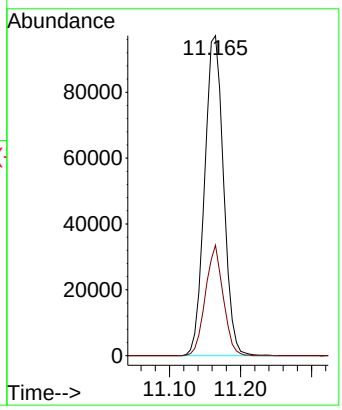




#57
1,3-Dichloropropane
Concen: 49.438 ug/l
RT: 11.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 76 Resp: 18007

Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.6	38.4



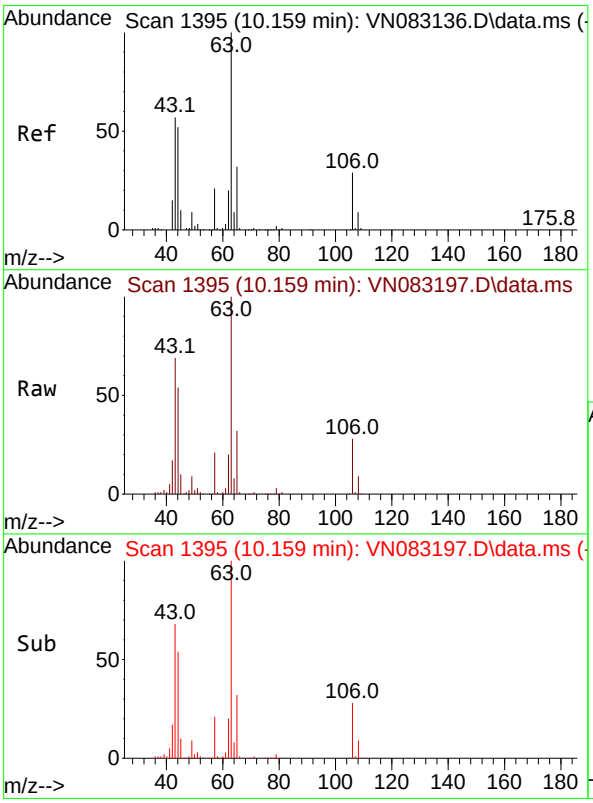
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone

08/12/2024
Supervised By :Mahesh Dadoda

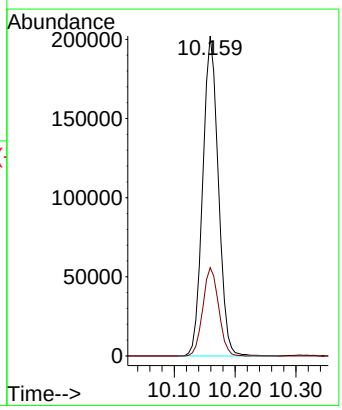
08/12/2024

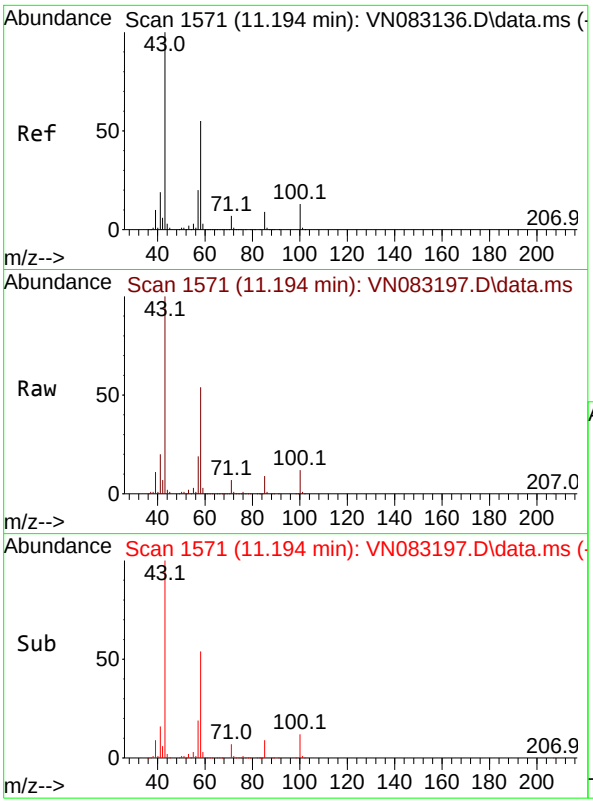


#58
2-Chloroethyl Vinyl ether
Concen: 220.686 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 63 Resp: 359375

Ion	Ratio	Lower	Upper
63	100		
106	28.0	21.4	32.0

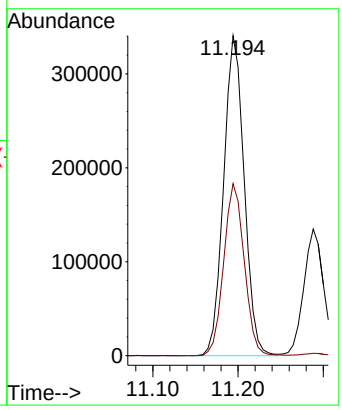




#59
2-Hexanone
Concen: 230.402 ug/l
RT: 11.194 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 43 Resp: 57175

Ion	Ratio	Lower	Upper
43	100		
58	53.7	24.6	73.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

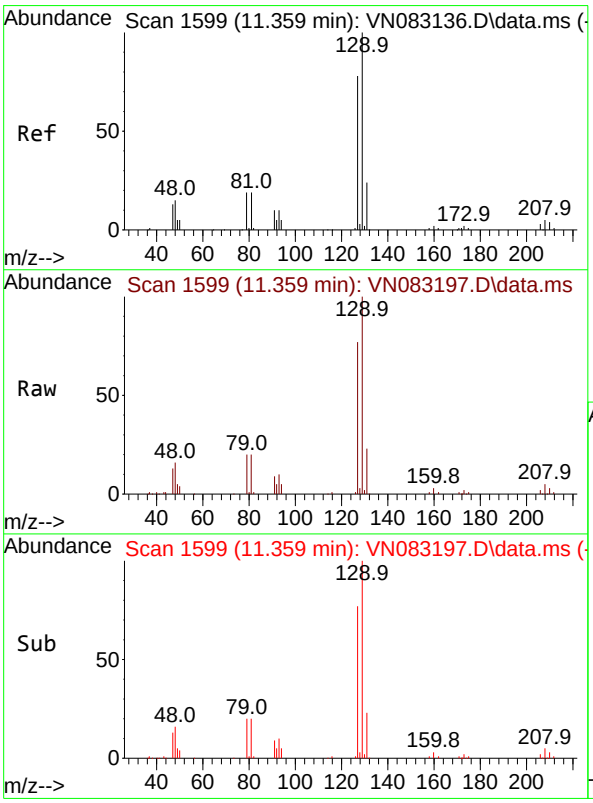
Manual Integrations
APPROVED

Reviewed By :John Carlone

08/12/2024

Supervised By :Mahesh Dadoda

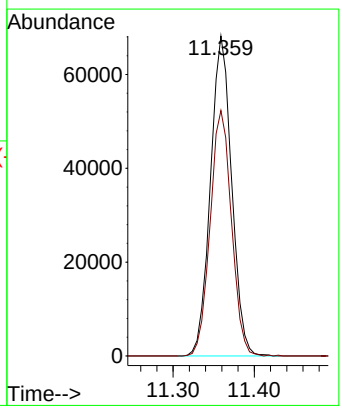
08/12/2024

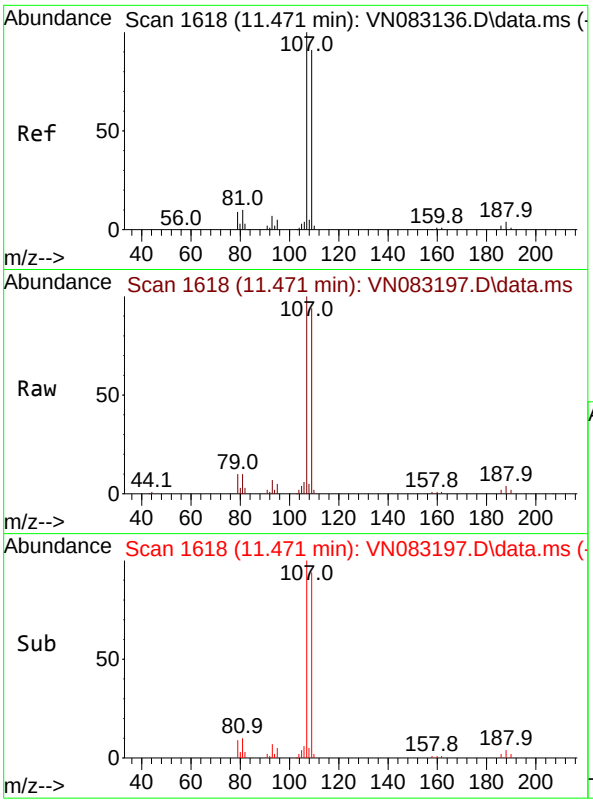


#60
Dibromochloromethane
Concen: 50.067 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:129 Resp: 123702

Ion	Ratio	Lower	Upper
129	100		
127	77.1	39.2	117.6

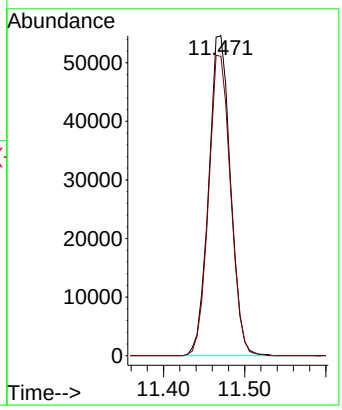




#61
1,2-Dibromoethane
Concen: 47.605 ug/l
RT: 11.471 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:107 Resp: 10219

Ion	Ratio	Lower	Upper
107	100		
109	94.1	73.7	110.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

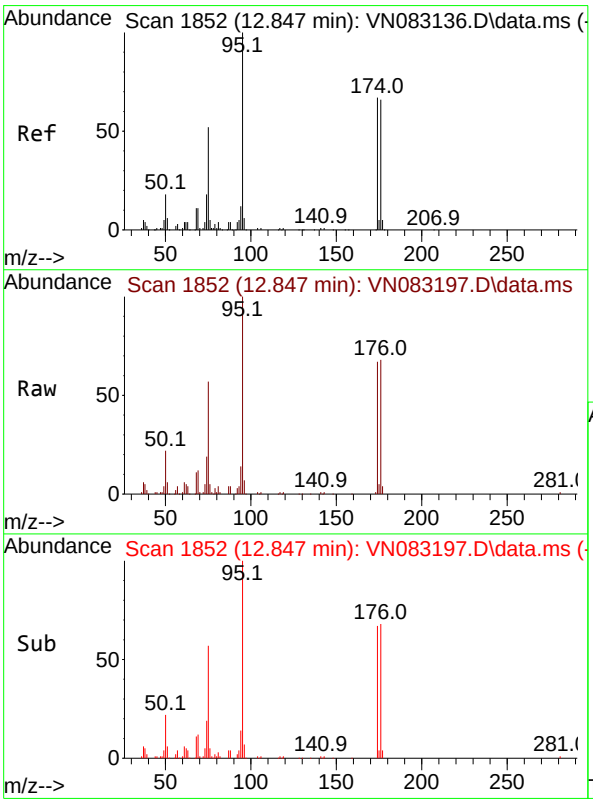
Manual Integrations APPROVED

Reviewed By :John Carlone

08/12/2024

Supervised By :Mahesh Dadoda

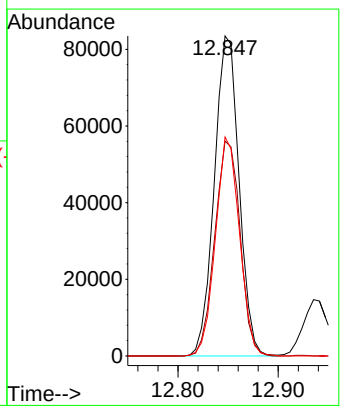
08/12/2024

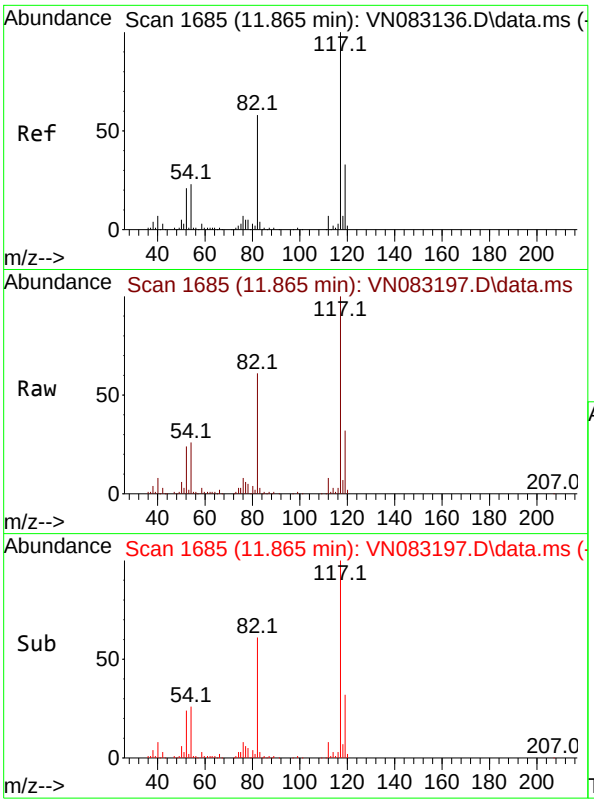


#62
4-Bromofluorobenzene
Concen: 49.137 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 95 Resp: 143110

Ion	Ratio	Lower	Upper
95	100		
174	68.6	0.0	159.2
176	66.5	0.0	147.6

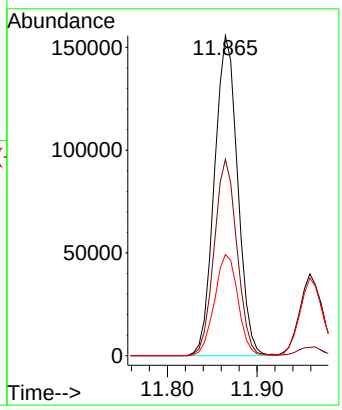




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:117 Resp: 27965

Ion	Ratio	Lower	Upper
117	100		
82	61.4	47.5	71.3
119	31.6	25.6	38.4



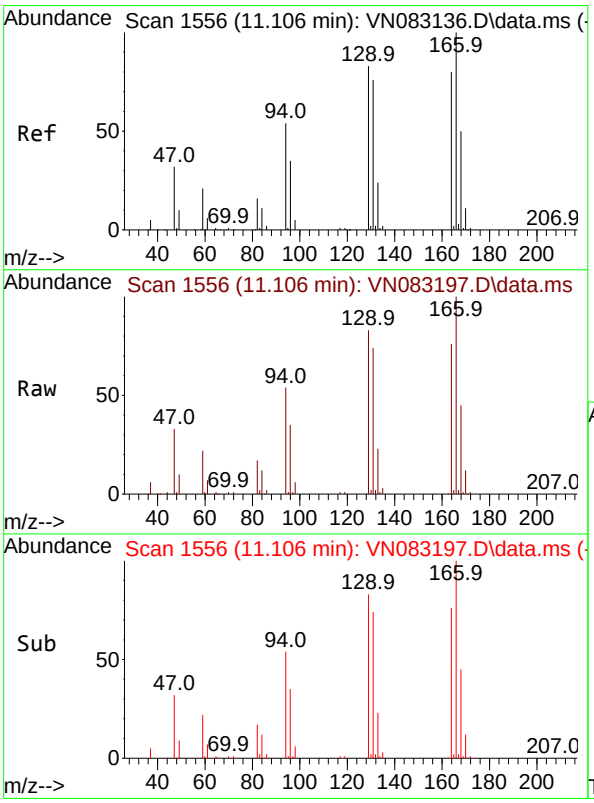
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone

08/12/2024
Supervised By :Mahesh Dadoda

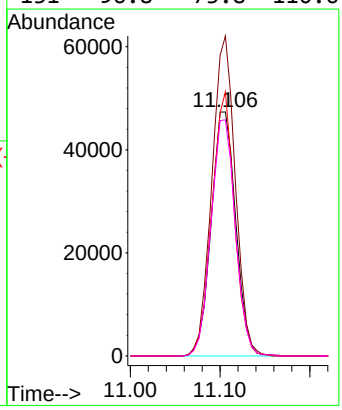
08/12/2024

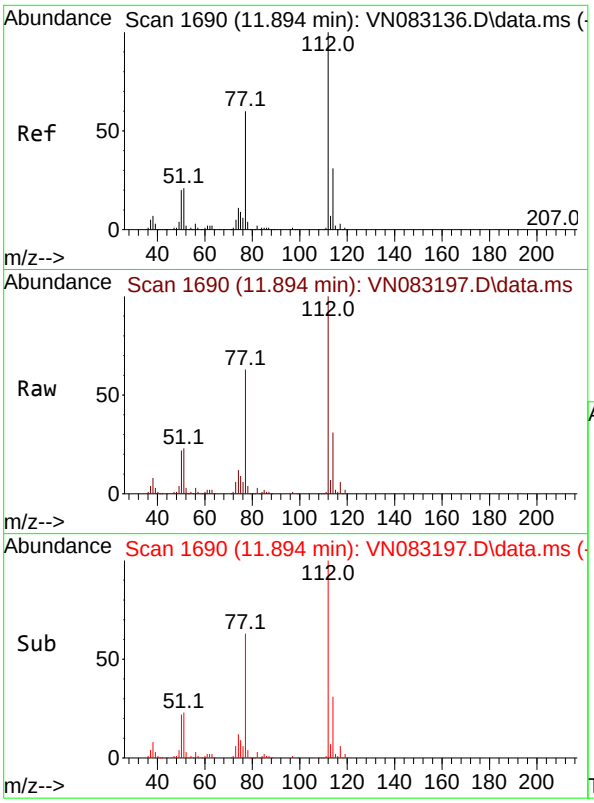


#64
Tetrachloroethene
Concen: 48.451 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:164 Resp: 89735

Ion	Ratio	Lower	Upper
164	100		
166	131.2	101.4	152.0
129	108.2	75.7	113.5
131	96.8	73.8	110.6

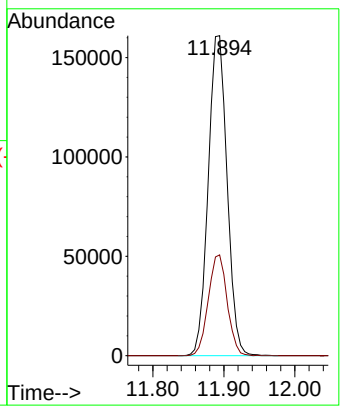




#65
Chlorobenzene
Concen: 48.035 ug/l
RT: 11.894 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:112 Resp: 29686

Ion	Ratio	Lower	Upper
112	100		
114	31.5	26.2	39.2



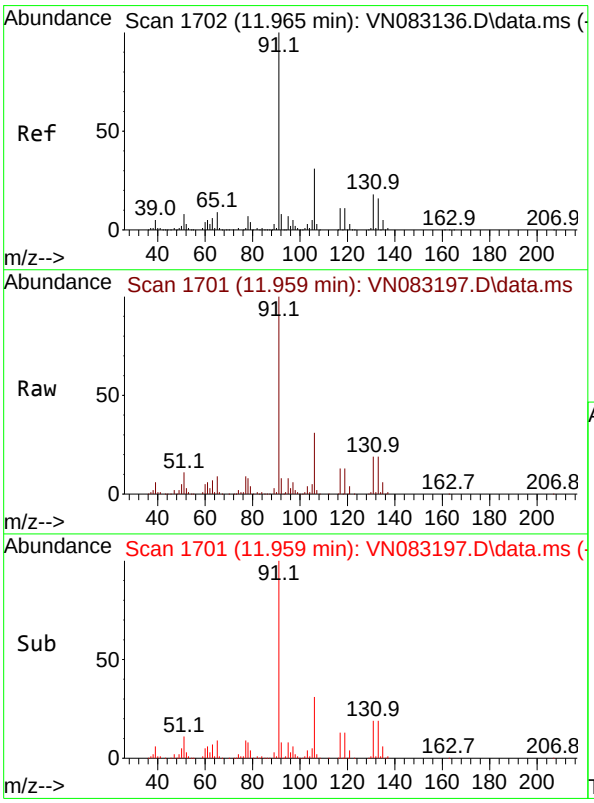
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone

08/12/2024
Supervised By :Mahesh Dadoda

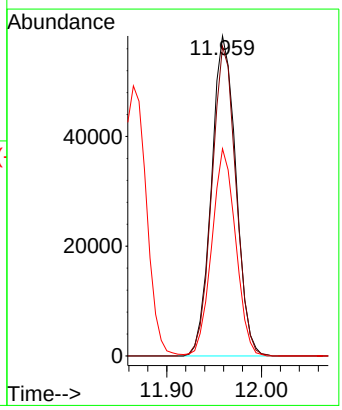
08/12/2024

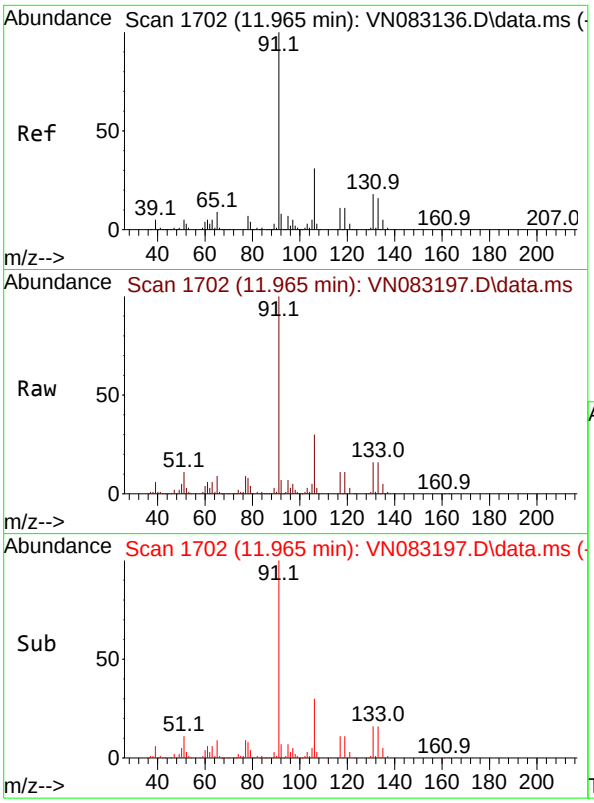


#66
1,1,1,2-Tetrachloroethane
Concen: 47.941 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:131 Resp: 104493

Ion	Ratio	Lower	Upper
131	100		
133	95.5	47.3	142.0
119	63.2	32.5	97.4

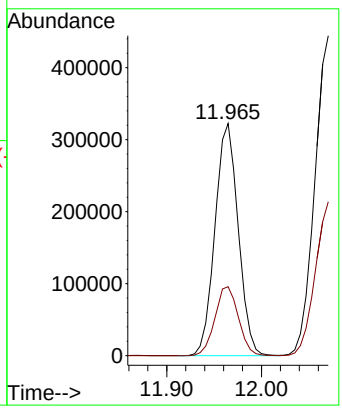




#67
Ethyl Benzene
Concen: 48.454 ug/l
RT: 11.965 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 91 Resp: 54933

Ion	Ratio	Lower	Upper
91	100		
106	29.7	24.0	36.0



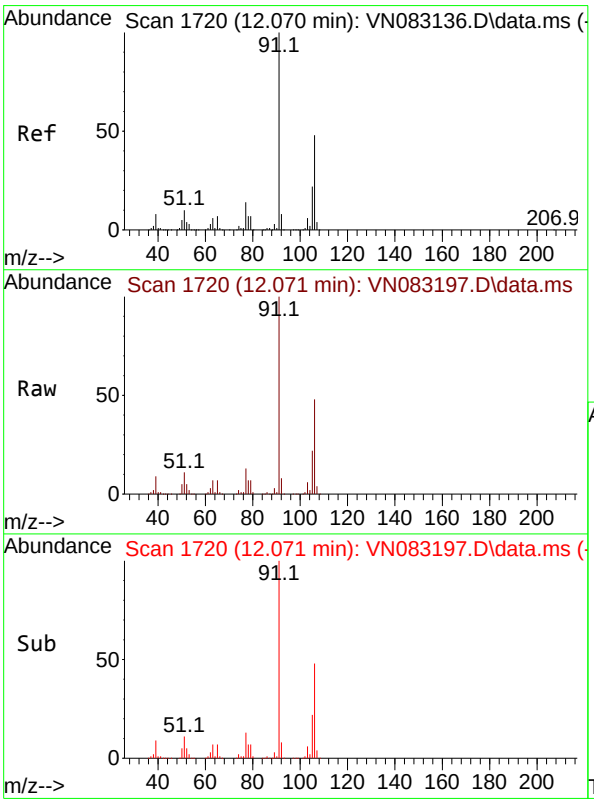
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone

08/12/2024
Supervised By :Mahesh Dadoda

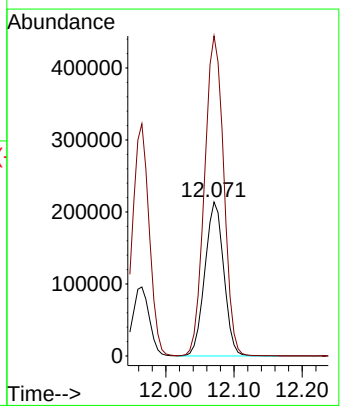
08/12/2024

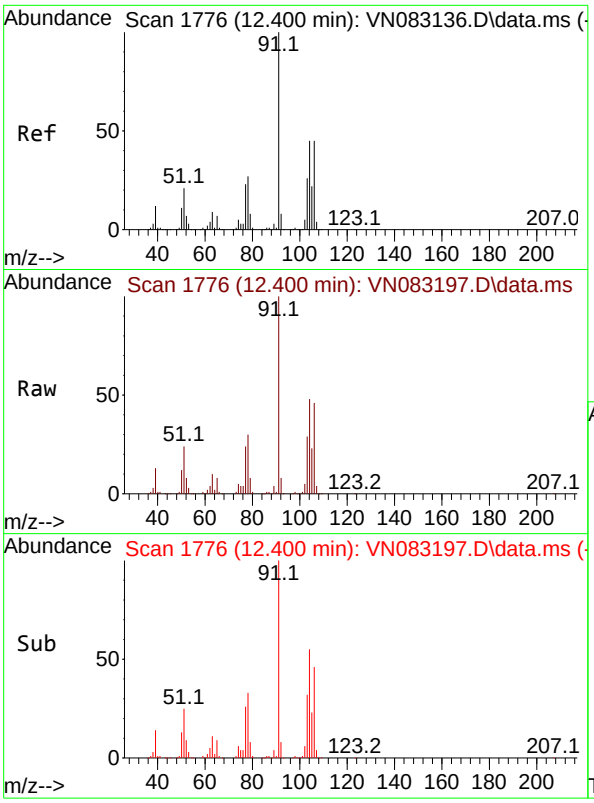


#68
m/p-Xylenes
Concen: 97.000 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:106 Resp: 411939

Ion	Ratio	Lower	Upper
106	100		
91	211.7	166.1	249.1

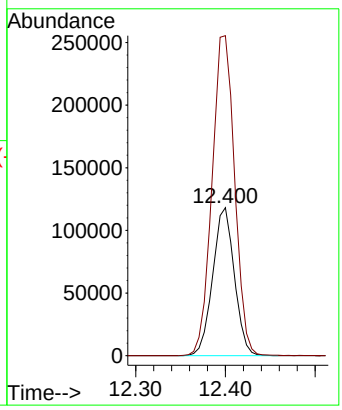




#69
o-Xylene
Concen: 47.242 ug/l
RT: 12.400 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:106 Resp: 19787

Ion	Ratio	Lower	Upper
106	100		
91	226.0	111.3	333.9



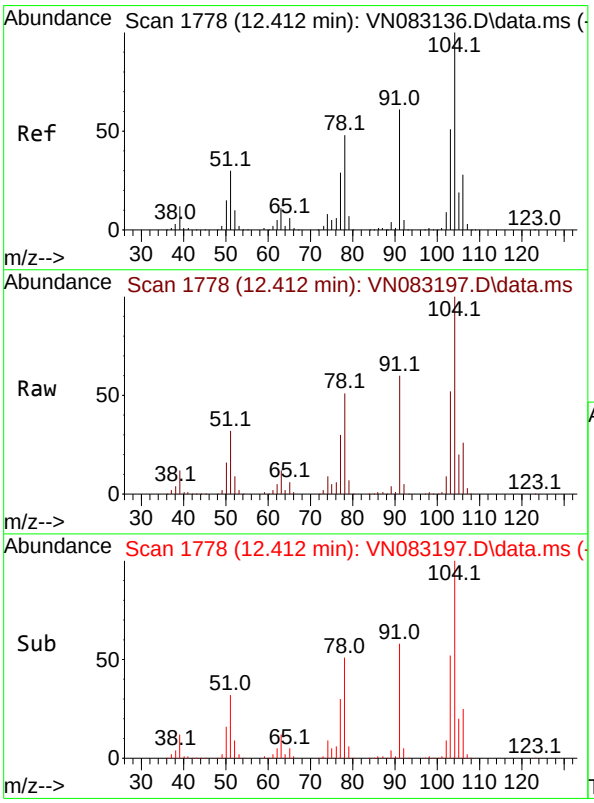
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone

08/12/2024
Supervised By :Mahesh Dadoda

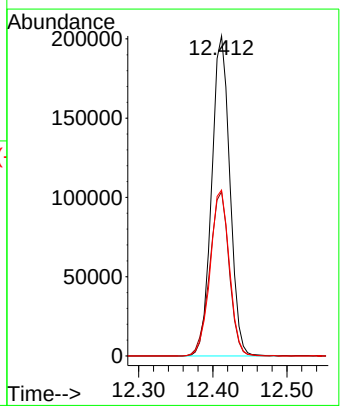
08/12/2024

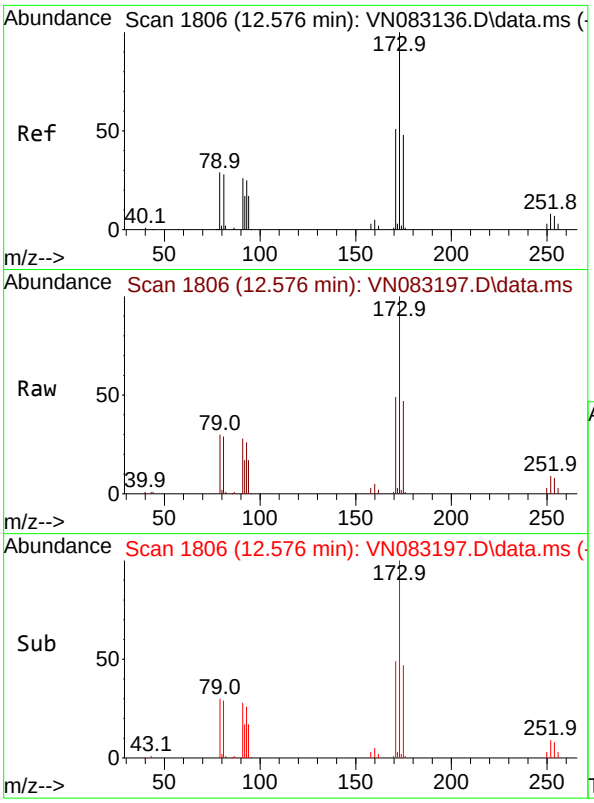


#70
Styrene
Concen: 48.856 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:104 Resp: 343690

Ion	Ratio	Lower	Upper
104	100		
78	54.7	41.6	62.4
103	54.6	44.0	66.0

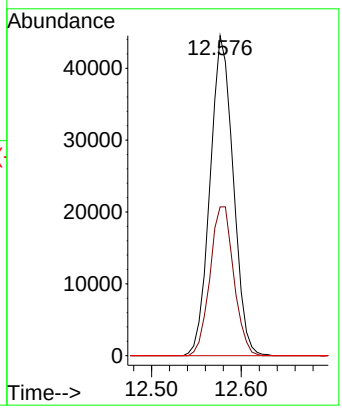




#71
Bromoform
Concen: 48.302 ug/l
RT: 12.576 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:173 Resp: 7975

Ion	Ratio	Lower	Upper
173	100		
175	47.8	24.0	72.0
254	0.0	0.0	0.0



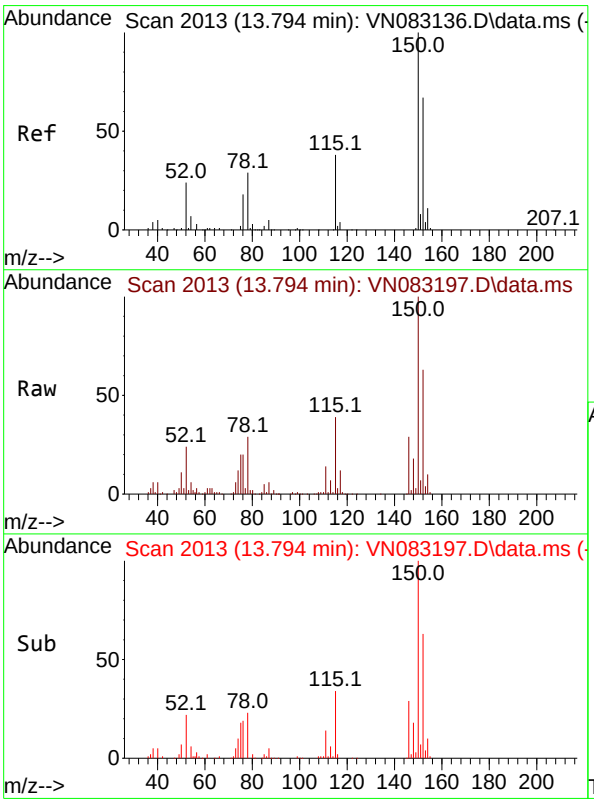
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone

08/12/2024
Supervised By :Mahesh Dadoda

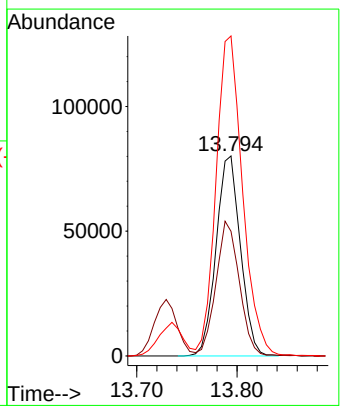
08/12/2024

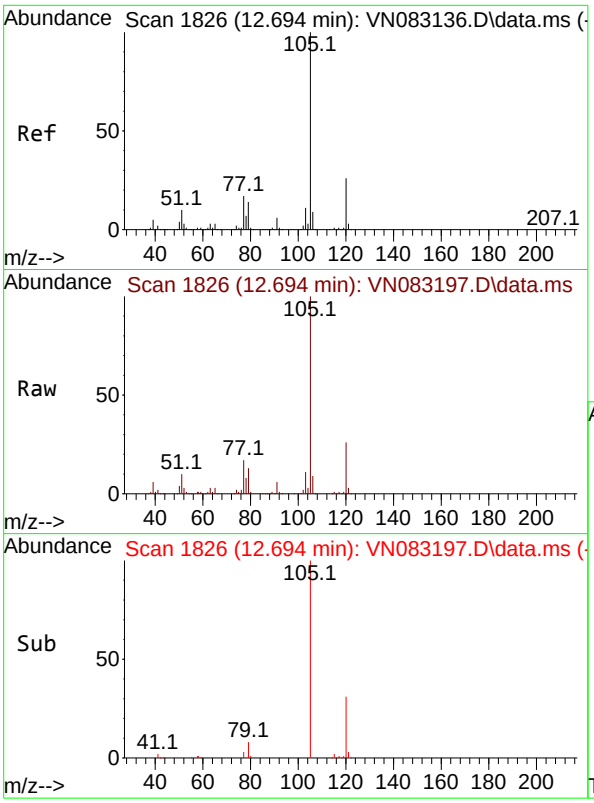


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:152 Resp: 135305

Ion	Ratio	Lower	Upper
152	100		
115	64.8	30.6	91.6
150	174.2	0.0	348.6

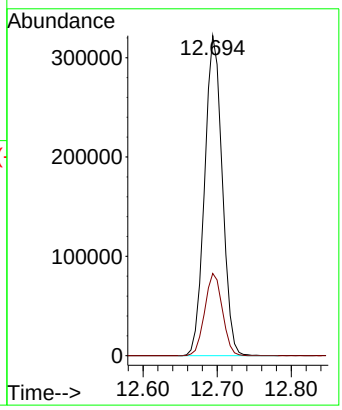




#73
Isopropylbenzene
Concen: 47.051 ug/l
RT: 12.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:105 Resp: 53249

Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.9	38.6



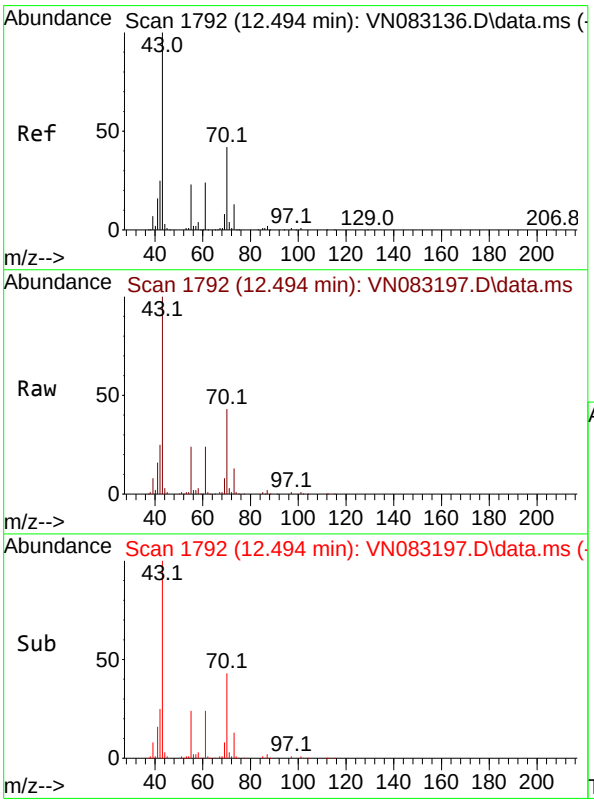
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone

08/12/2024
Supervised By :Mahesh Dadoda

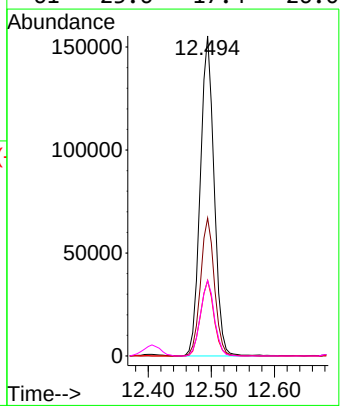
08/12/2024

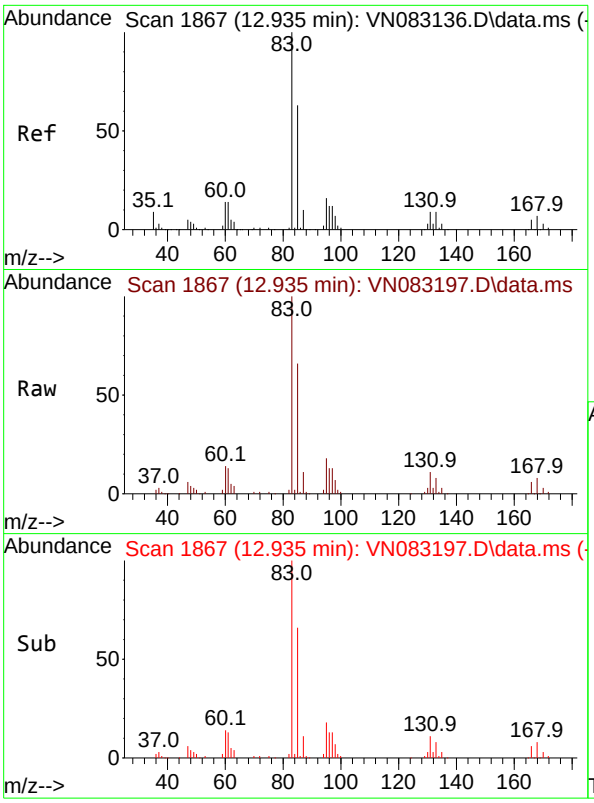


#74
N-amyl acetate
Concen: 42.736 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 43 Resp: 236574

Ion	Ratio	Lower	Upper
43	100		
70	43.2	29.8	44.6
55	23.0	18.7	28.1
61	23.6	17.4	26.0

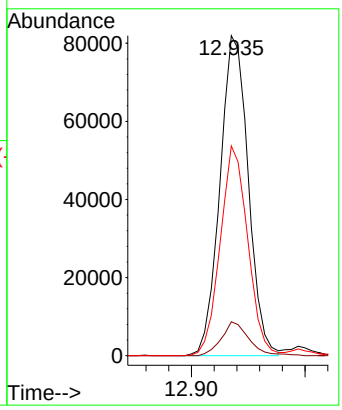




#75
1,1,2,2-Tetrachloroethane
Concen: 44.329 ug/l
RT: 12.935 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 83 Resp: 14189

Ion	Ratio	Lower	Upper
83	100		
131	10.4	5.0	14.9
85	63.9	31.9	95.7



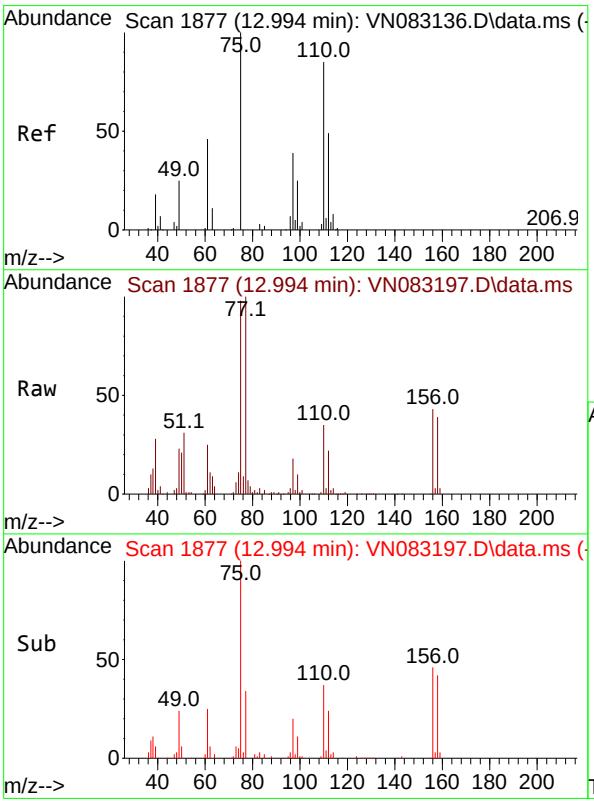
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone

08/12/2024
Supervised By :Mahesh Dadoda

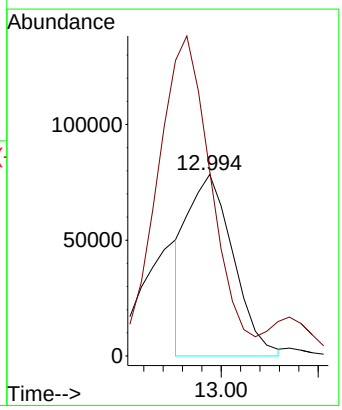
08/12/2024

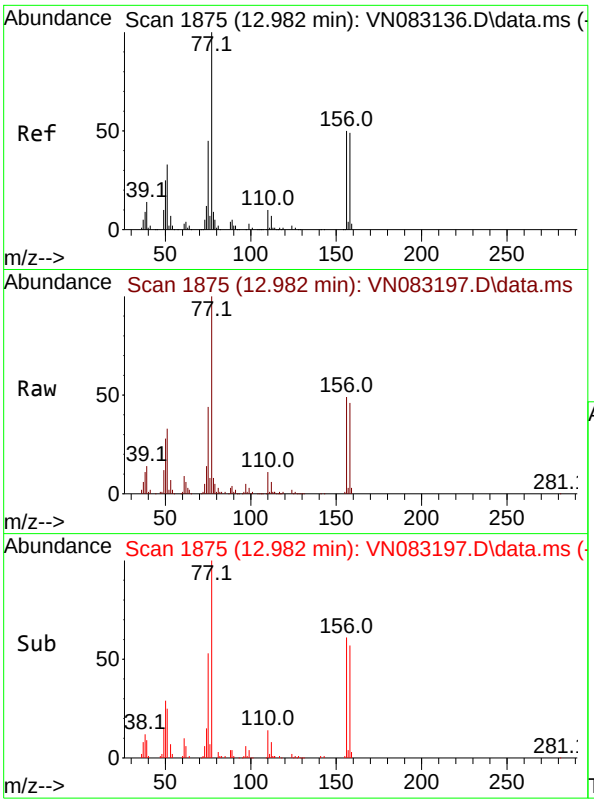


#76
1,2,3-Trichloropropane
Concen: 43.162 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 75 Resp: 128173

Ion	Ratio	Lower	Upper
75	100		
77	210.2	110.9	332.6

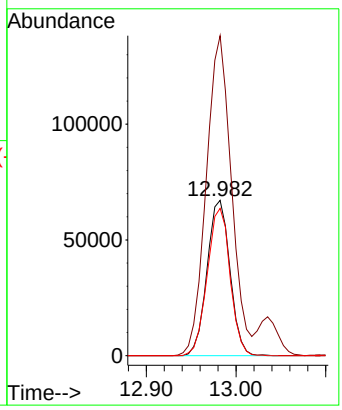




#77
Bromobenzene
Concen: 47.231 ug/l
RT: 12.982 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:156 Resp: 11873

Ion	Ratio	Lower	Upper
156	100		
77	226.9	111.3	333.8
158	94.8	48.3	144.9



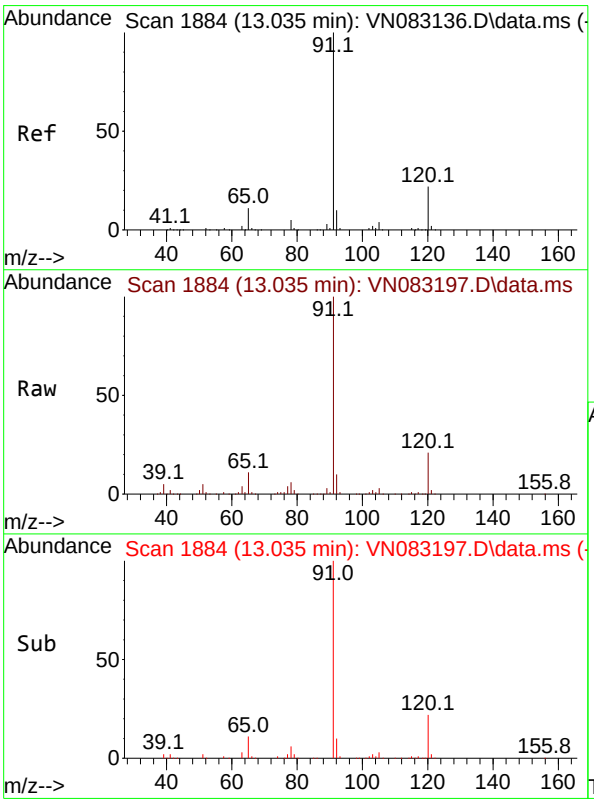
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone

08/12/2024
Supervised By :Mahesh Dadoda

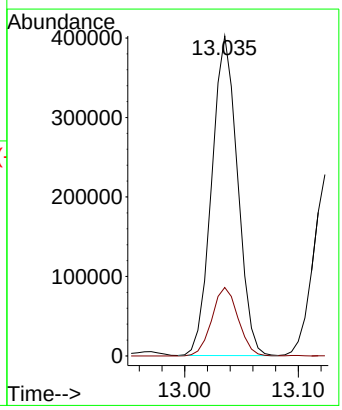
08/12/2024

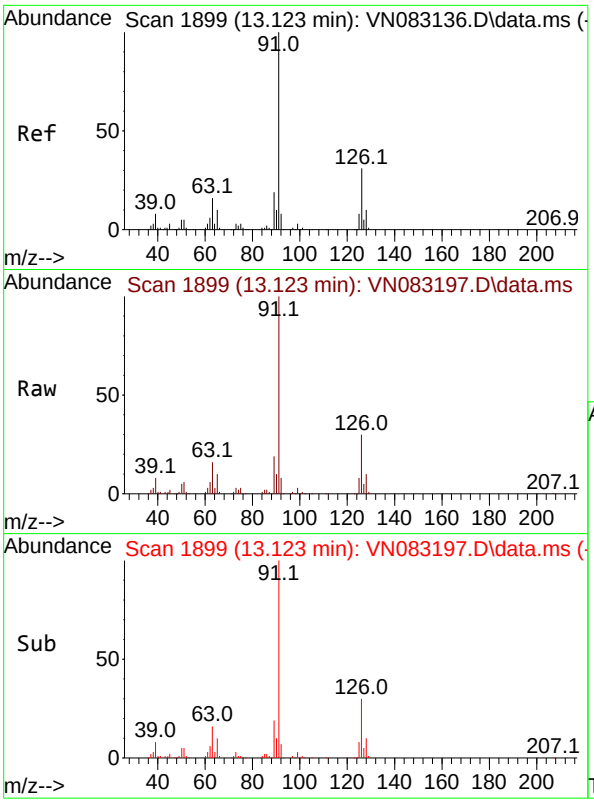


#78
n-propylbenzene
Concen: 48.649 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 91 Resp: 633975

Ion	Ratio	Lower	Upper
91	100		
120	21.8	10.9	32.9

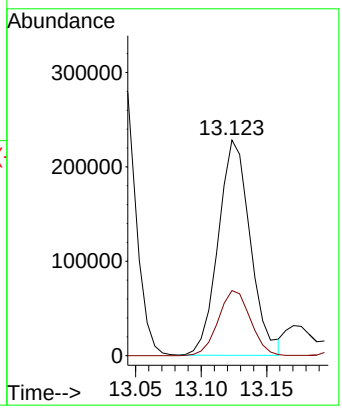




#79
2-Chlorotoluene
Concen: 46.954 ug/l
RT: 13.123 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 91 Resp: 38793

Ion	Ratio	Lower	Upper
91	100		
126	30.4	16.2	48.6



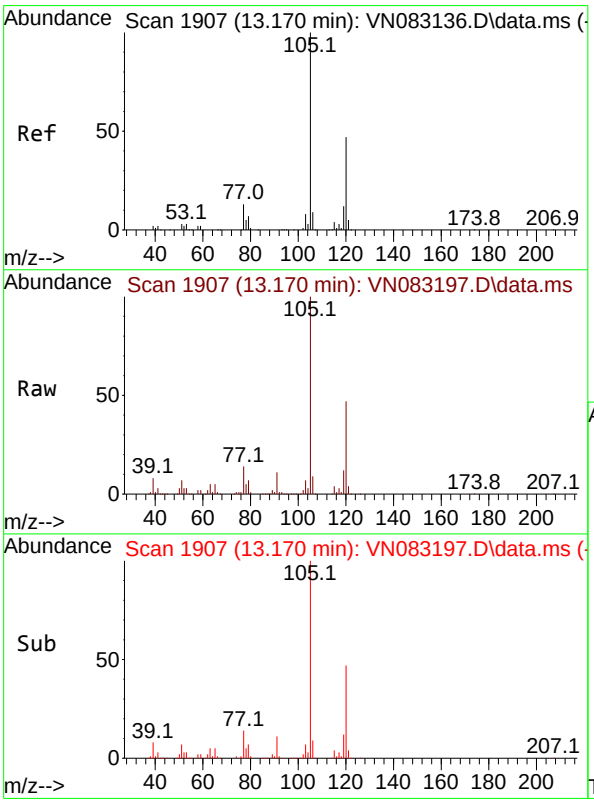
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone

08/12/2024
Supervised By :Mahesh Dadoda

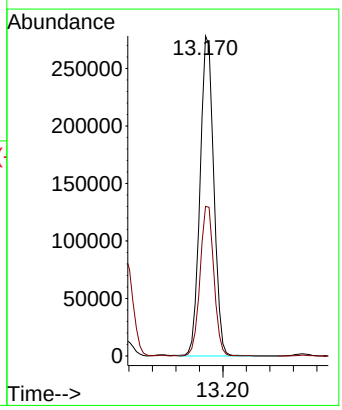
08/12/2024

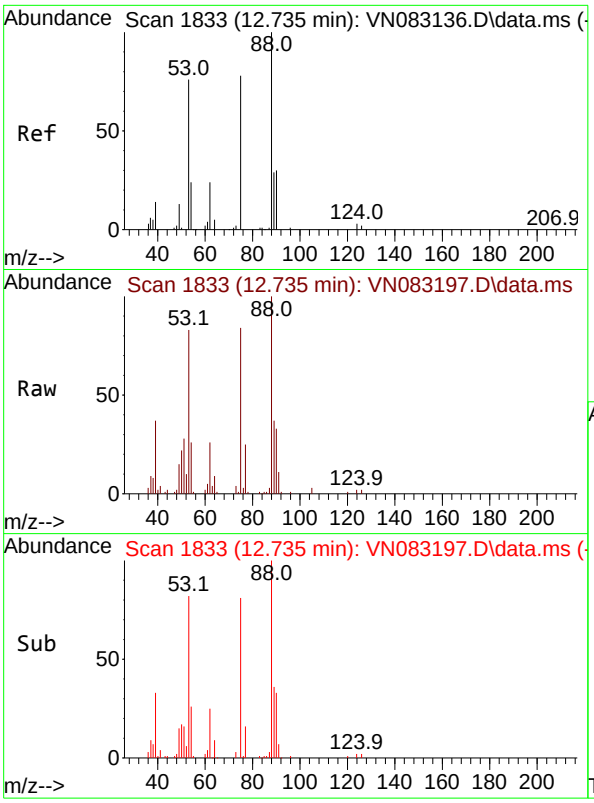


#80
1,3,5-Trimethylbenzene
Concen: 47.576 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:105 Resp: 450777

Ion	Ratio	Lower	Upper
105	100		
120	47.1	24.3	72.8

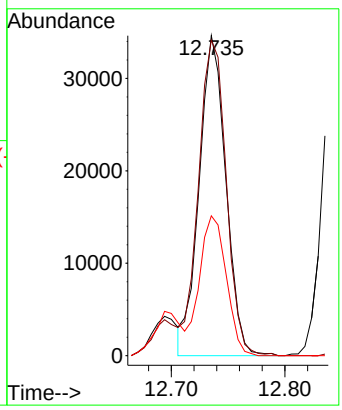




#81
trans-1,4-Dichloro-2-butene
Concen: 41.447 ug/l
RT: 12.735 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 75 Resp: 5658

Ion	Ratio	Lower	Upper
75	100		
53	102.7	88.4	132.6
89	43.8	36.3	54.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

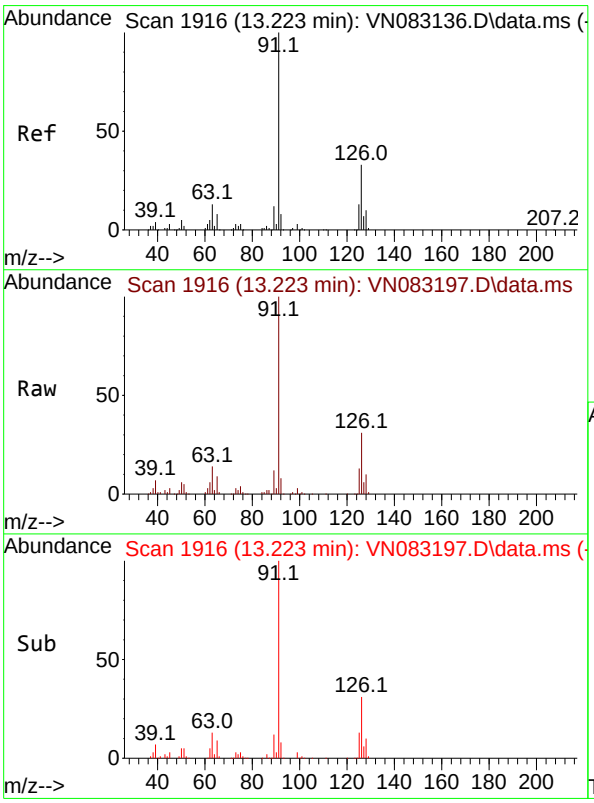
Manual Integrations
APPROVED

Reviewed By :John Carlone

08/12/2024

Supervised By :Mahesh Dadoda

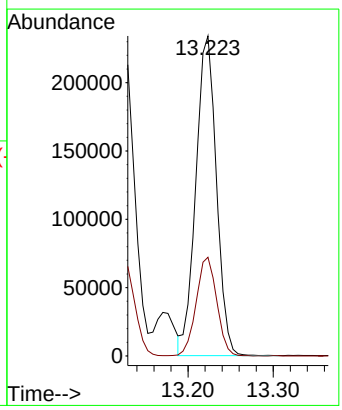
08/12/2024

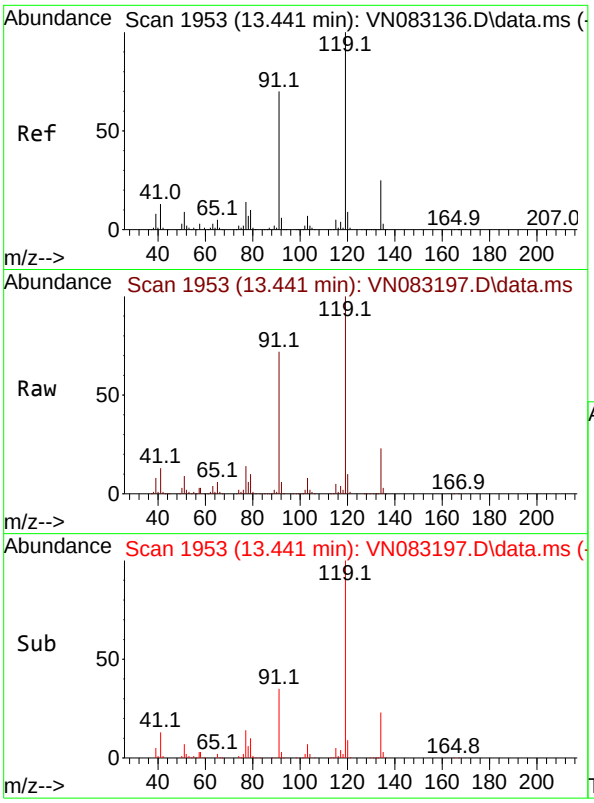


#82
4-Chlorotoluene
Concen: 47.321 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 91 Resp: 392168

Ion	Ratio	Lower	Upper
91	100		
126	31.0	16.2	48.6

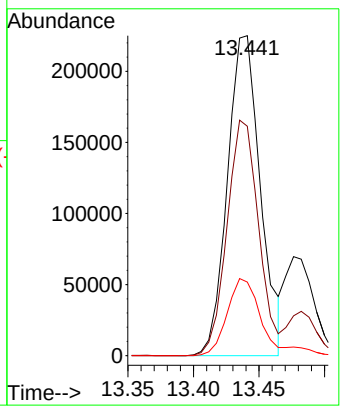




#83
tert-Butylbenzene
Concen: 47.039 ug/l
RT: 13.441 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:119 Resp: 39470

Ion	Ratio	Lower	Upper
119	100		
91	70.5	35.0	105.1
134	25.6	13.3	39.8



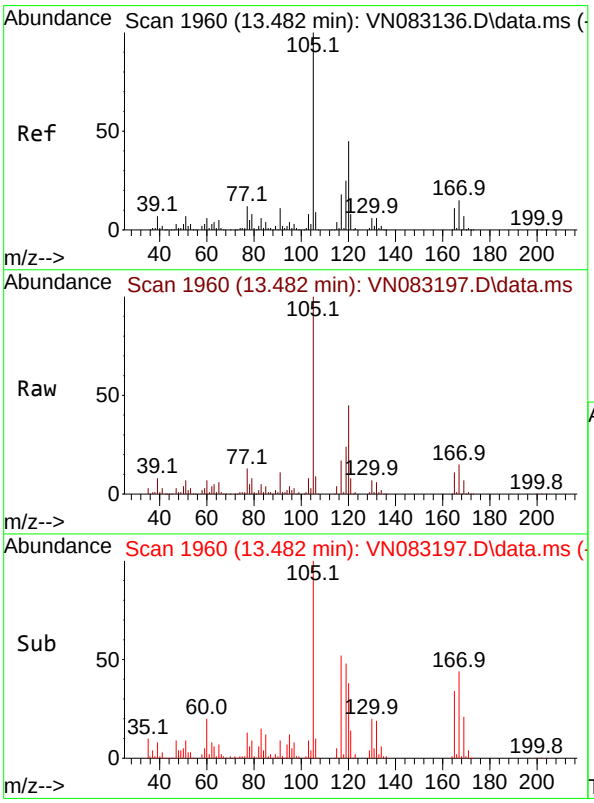
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone

08/12/2024
Supervised By :Mahesh Dadoda

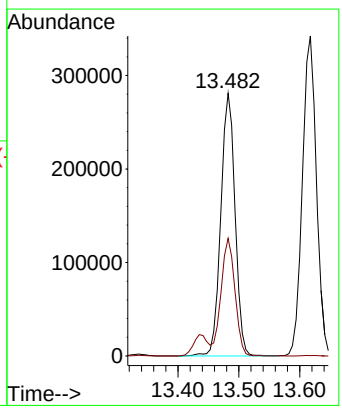
08/12/2024

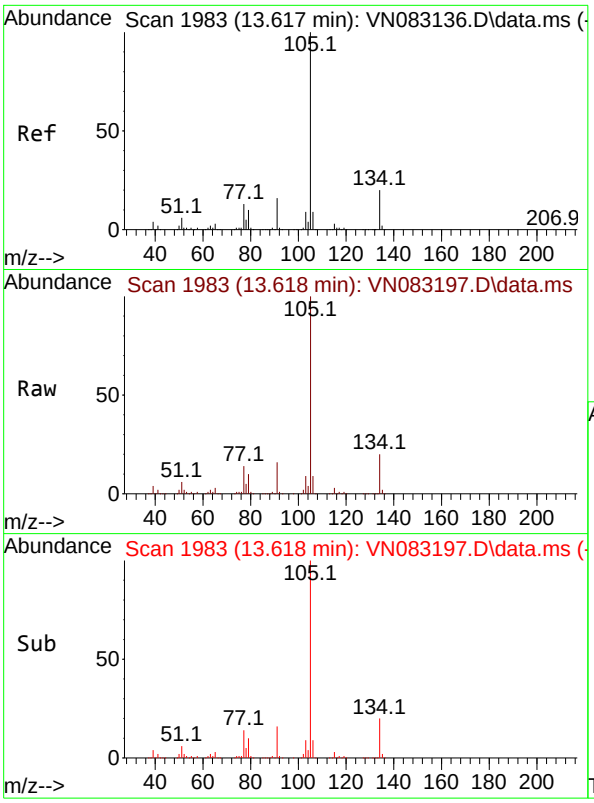


#84
1,2,4-Trimethylbenzene
Concen: 47.870 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:105 Resp: 457094

Ion	Ratio	Lower	Upper
105	100		
120	43.8	21.9	65.8

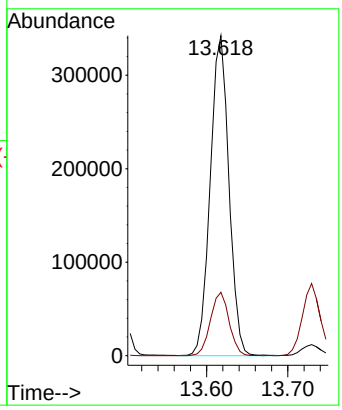




#85
sec-Butylbenzene
Concen: 47.840 ug/l
RT: 13.618 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:105 Resp: 54773

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.3



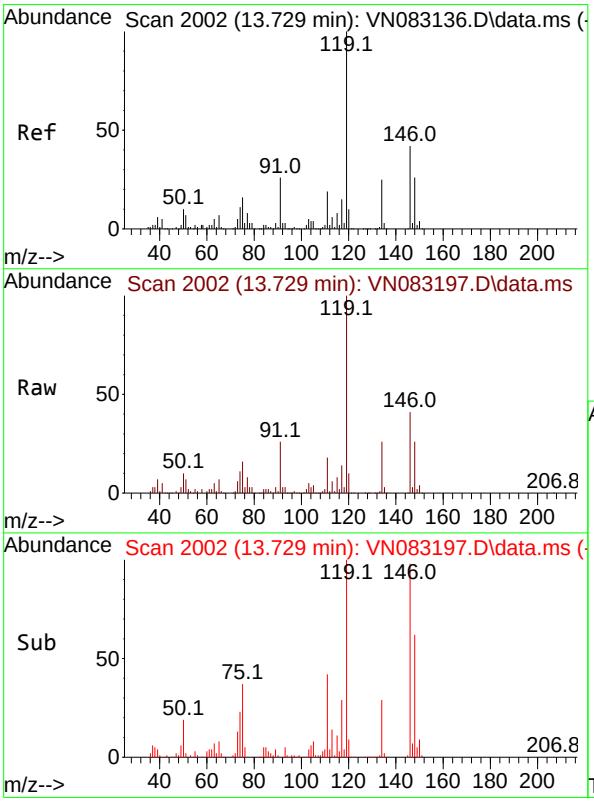
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone

08/12/2024
Supervised By :Mahesh Dadoda

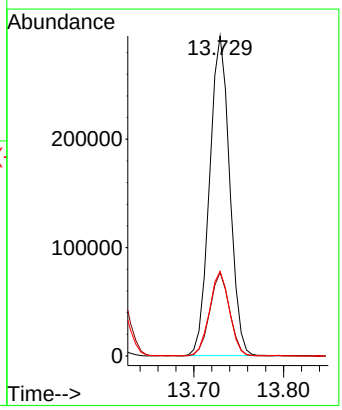
08/12/2024

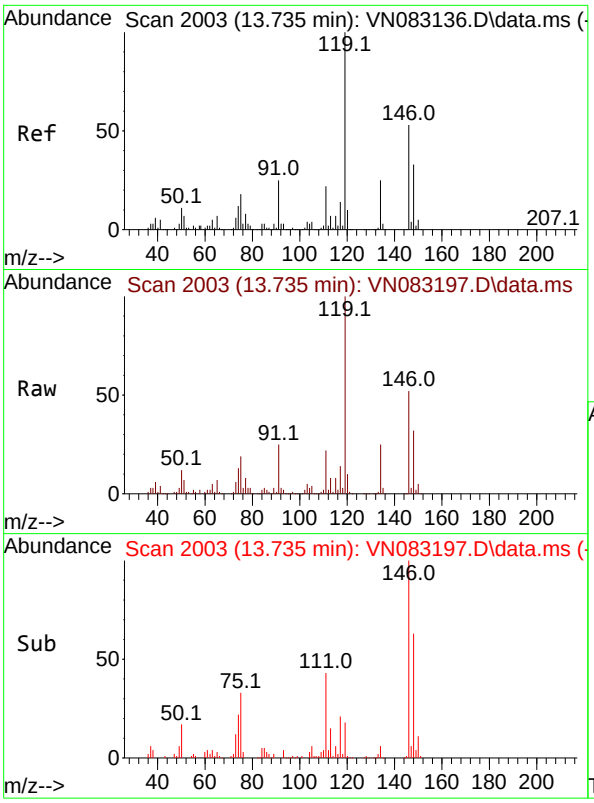


#86
p-Isopropyltoluene
Concen: 48.538 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:119 Resp: 458855

Ion	Ratio	Lower	Upper
119	100		
134	25.6	13.0	39.0
91	25.9	12.3	36.9

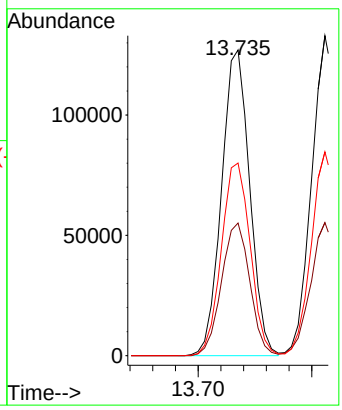




#87
1,3-Dichlorobenzene
Concen: 46.212 ug/l
RT: 13.735 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:146 Resp: 21860

Ion	Ratio	Lower	Upper
146	100		
111	43.7	20.6	61.9
148	64.8	31.8	95.3



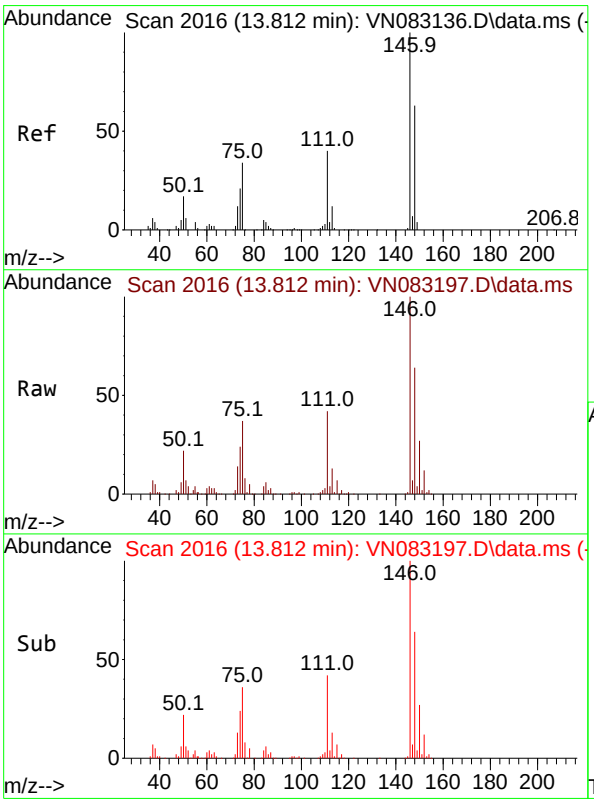
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone

08/12/2024
Supervised By :Mahesh Dadoda

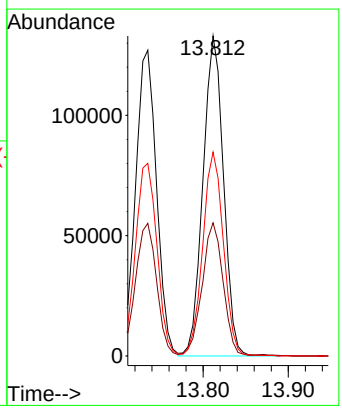
08/12/2024

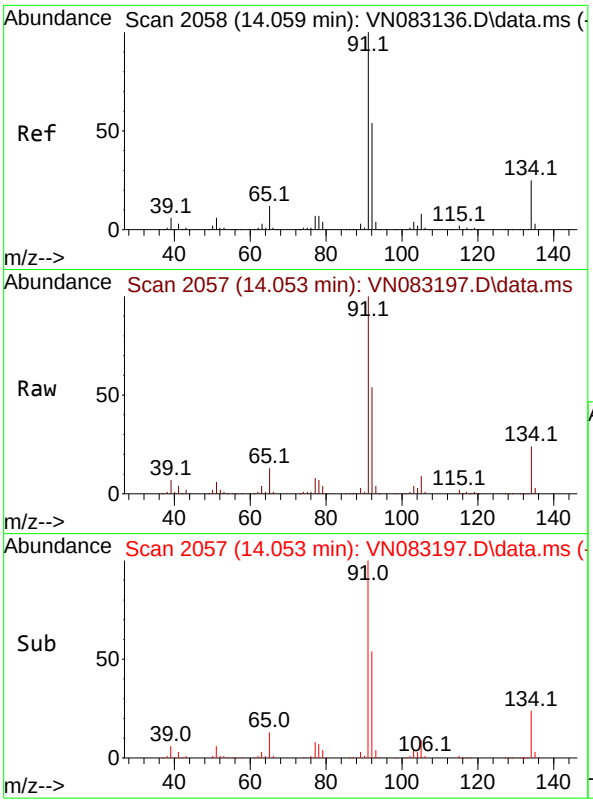


#88
1,4-Dichlorobenzene
Concen: 46.710 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:146 Resp: 222764

Ion	Ratio	Lower	Upper
146	100		
111	42.0	20.1	60.3
148	64.1	32.2	96.6

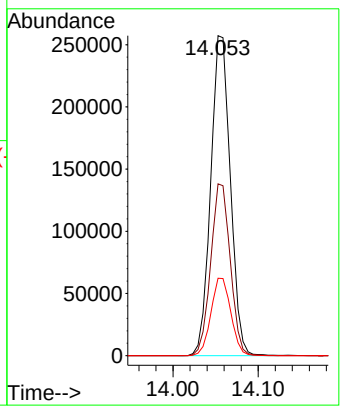




#89
n-Butylbenzene
Concen: 50.228 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 91 Resp: 41143

Ion	Ratio	Lower	Upper
91	100		
92	53.6	26.1	78.3
134	24.6	12.1	36.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

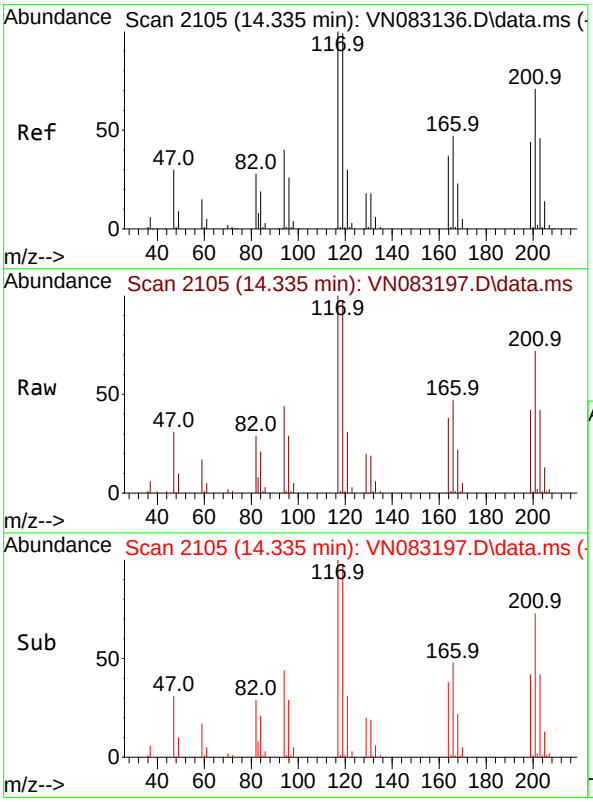
Manual Integrations
APPROVED

Reviewed By :John Carlone

08/12/2024

Supervised By :Mahesh Dadoda

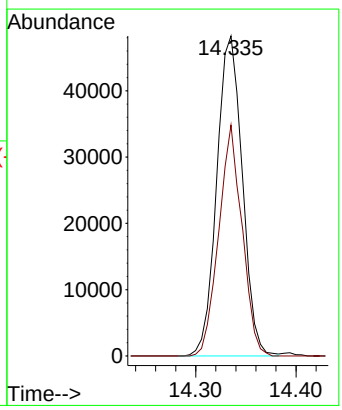
08/12/2024

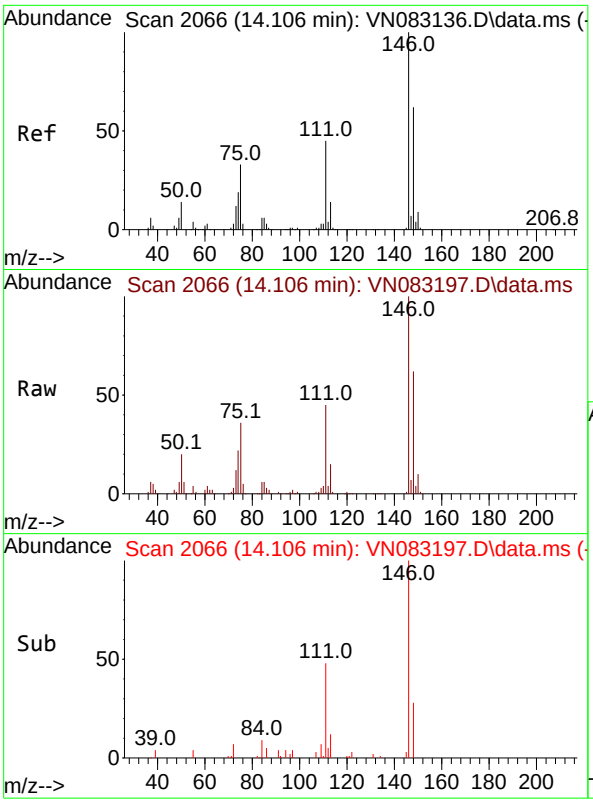


#90
Hexachloroethane
Concen: 46.731 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:117 Resp: 85349

Ion	Ratio	Lower	Upper
117	100		
201	65.8	35.8	107.3

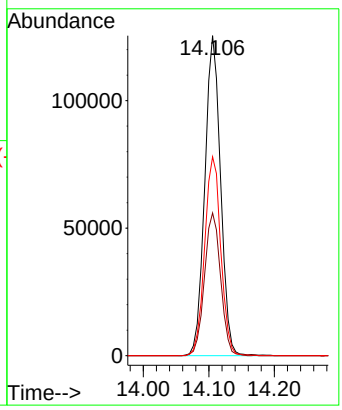




#91
1,2-Dichlorobenzene
Concen: 45.896 ug/l
RT: 14.106 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:146 Resp: 21009

Ion	Ratio	Lower	Upper
146	100		
111	45.6	21.4	64.2
148	63.4	32.1	96.5



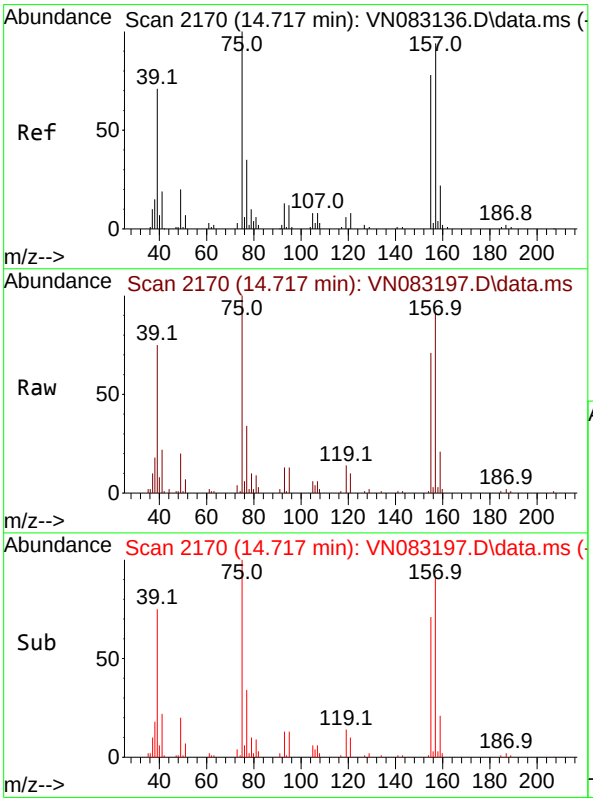
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone

08/12/2024
Supervised By :Mahesh Dadoda

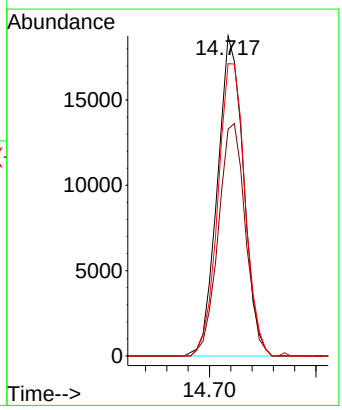
08/12/2024

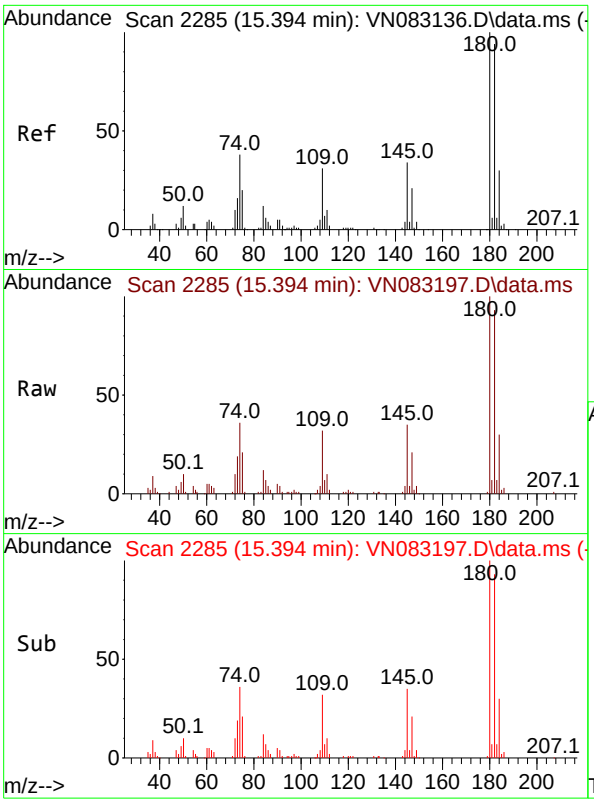


#92
1,2-Dibromo-3-Chloropropane
Concen: 41.008 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion: 75 Resp: 31852

Ion	Ratio	Lower	Upper
75	100		
155	75.5	36.6	109.8
157	94.7	46.9	140.6

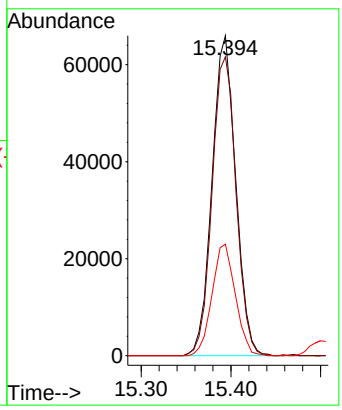




#93
1,2,4-Trichlorobenzene
Concen: 46.947 ug/l
RT: 15.394 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:180 Resp: 120398

Ion	Ratio	Lower	Upper
180	100		
182	95.0	47.3	141.8
145	34.5	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

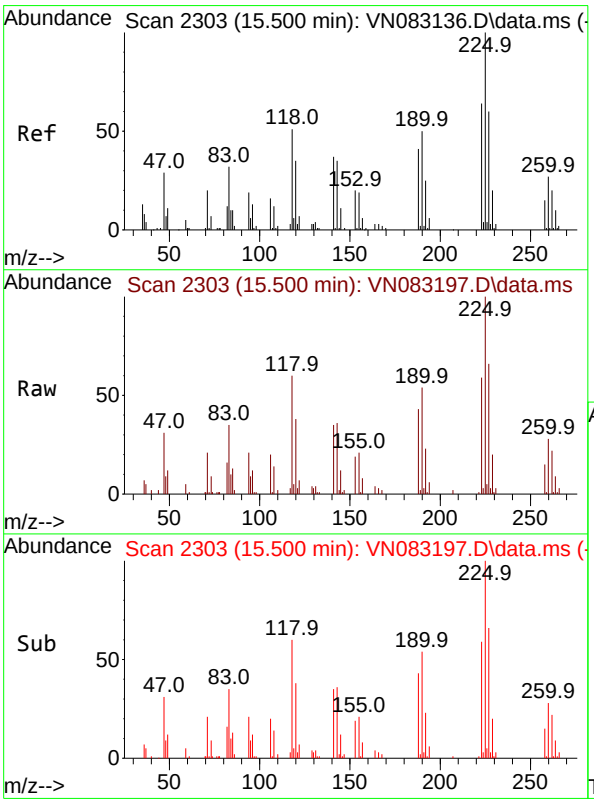
Manual Integrations APPROVED

Reviewed By :John Carlone

08/12/2024

Supervised By :Mahesh Dadoda

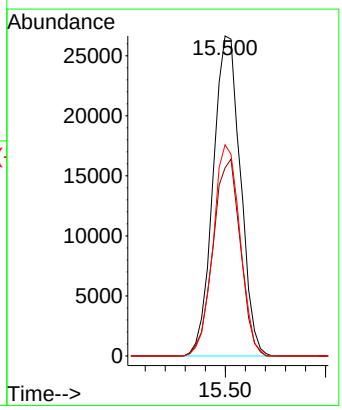
08/12/2024

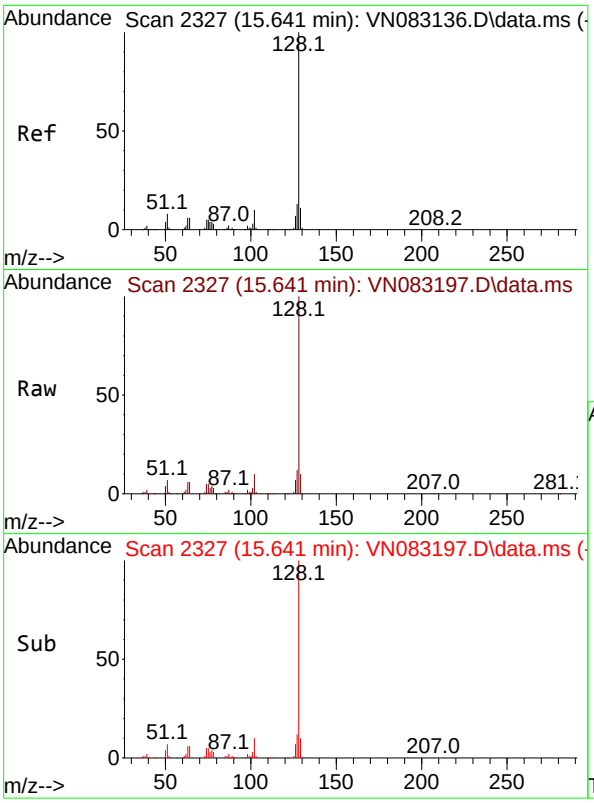


#94
Hexachlorobutadiene
Concen: 44.179 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:225 Resp: 50388

Ion	Ratio	Lower	Upper
225	100		
223	61.5	31.9	95.7
227	65.0	32.5	97.5

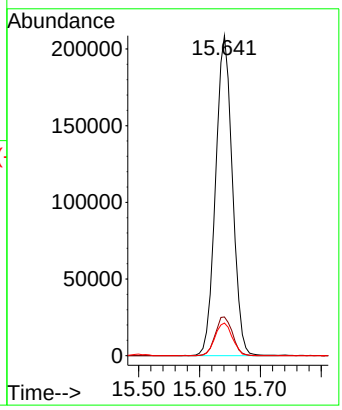




#95
Naphthalene
Concen: 43.952 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:128 Resp: 39926

Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.6	16.0
129	10.6	8.6	12.8



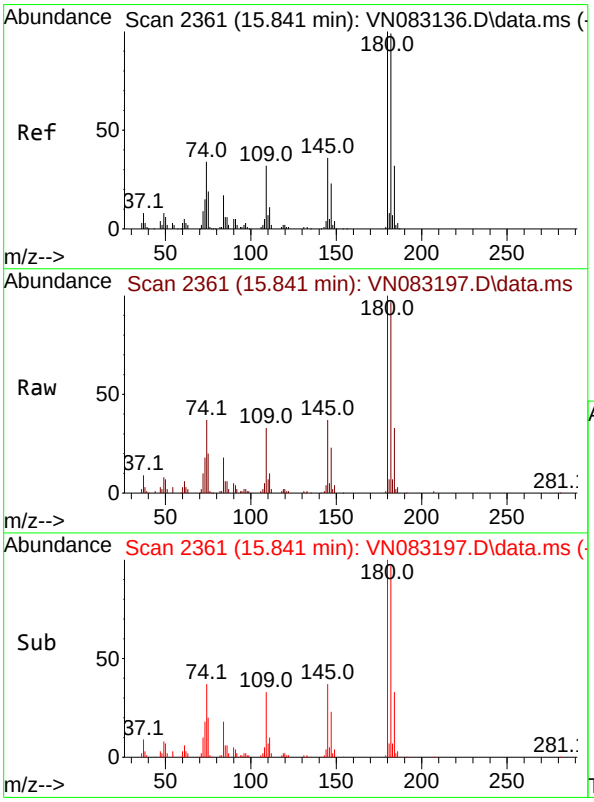
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone

08/12/2024
Supervised By :Mahesh Dadoda

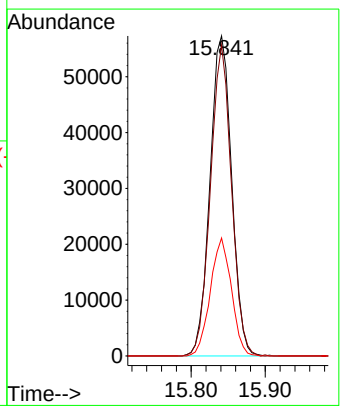
08/12/2024



#96
1,2,3-Trichlorobenzene
Concen: 45.874 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.000 min
Lab File: VN083197.D
Acq: 10 Aug 2024 10:46

Tgt Ion:180 Resp: 116409

Ion	Ratio	Lower	Upper
180	100		
182	94.2	48.9	146.8
145	35.9	16.8	50.4



Sample Results: **VN083197.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081024\
Data File : VN083197.D
Acq On : 10 Aug 2024 10:46
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Aug 12 01:45:26 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	93	0.00
2	T	Dichlorodifluoromethane	0.567	0.528	6.9	86	0.00
3	P	Chloromethane	0.581	0.529	9.0	83	0.00
4	C	Vinyl Chloride	0.592	0.547	7.6#	85	0.00
5	T	Bromomethane	0.368	0.336	8.7	87	0.00
6	T	Chloroethane	0.371	0.346	6.7	90	0.00
7	T	Trichlorofluoromethane	0.979	0.942	3.8	88	0.00
8	T	Diethyl Ether	0.364	0.330	9.3	83	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.539	0.529	1.9	90	0.00
10	T	Methyl Iodide	0.710	0.662	6.8	83	0.00
11	T	Tert butyl alcohol	0.148	0.112	24.3	71	0.00
12	CM	1,1-Dichloroethene	0.554	0.498	10.1#	85	0.00
13	T	Acrolein	0.096	0.097	-1.0	88	0.00
14	T	Allyl chloride	1.047	0.872	16.7	87	0.00
15	T	Acrylonitrile	0.304	0.267	12.2	81	0.00
16	T	Acetone	0.278	0.278	0.0	90	0.00
17	T	Carbon Disulfide	1.622	1.341	17.3	80	0.00
18	T	Methyl Acetate	0.830	0.741	10.7	88	0.00
19	T	Methyl tert-butyl Ether	2.001	1.847	7.7	84	0.00
20	T	Methylene Chloride	0.641	0.553	13.7	86	0.00
21	T	trans-1,2-Dichloroethene	0.573	0.524	8.6	85	-0.01
22	T	Diisopropyl ether	1.969	1.862	5.4	86	0.00
23	T	Vinyl Acetate	2.018	1.891	6.3	84	0.00
24	P	1,1-Dichloroethane	1.073	1.030	4.0	88	0.00
25	T	2-Butanone	0.428	0.378	11.7	82	0.00
26	T	2,2-Dichloropropane	0.997	1.006	-0.9	91	0.00
27	T	cis-1,2-Dichloroethene	0.691	0.642	7.1	86	0.00
28	T	Bromochloromethane	0.439	0.385	12.3	81	0.00
29	T	Tetrahydrofuran	0.276	0.238	13.8	79	0.00
30	C	Chloroform	1.115	1.088	2.4#	89	0.00
31	T	Cyclohexane	1.055	0.878	16.8	83	0.00
32	T	1,1,1-Trichloroethane	1.055	1.021	3.2	88	0.00
33	S	1,2-Dichloroethane-d4	0.712	0.706	0.8	88	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
35	S	Dibromofluoromethane	0.312	0.304	2.6	84	0.00
36	T	1,1-Dichloropropene	0.472	0.454	3.8	88	0.00
37	T	Ethyl Acetate	0.529	0.457	13.6	84	0.00
38	T	Carbon Tetrachloride	0.532	0.522	1.9	88	0.00
39	T	Methylcyclohexane	0.580	0.542	6.6	84	0.00
40	TM	Benzene	1.406	1.348	4.1	86	0.00
41	T	Methacrylonitrile	0.301	0.264	12.3	86	0.00
42	TM	1,2-Dichloroethane	0.512	0.508	0.8	90	0.00
43	T	Isopropyl Acetate	1.211	0.814	32.8#	81	0.00
44	TM	Trichloroethene	0.335	0.323	3.6	86	0.00
45	C	1,2-Dichloropropane	0.334	0.326	2.4#	87	0.00
46	T	Dibromomethane	0.239	0.234	2.1	86	0.00
47	T	Bromodichloromethane	0.537	0.521	3.0	89	0.00
48	T	Methyl methacrylate	0.437	0.396	9.4	86	0.00

Sample Results: **VN083197.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081024\
Data File : VN083197.D
Acq On : 10 Aug 2024 10:46
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Aug 12 01:45:26 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	73	0.00
50	S	Toluene-d8	1.164	1.141	2.0	83	0.00
51	T	4-Methyl-2-Pentanone	0.500	0.462	7.6	82	0.00
52	CM	Toluene	0.889	0.868	2.4#	86	0.00
53	T	t-1,3-Dichloropropene	0.551	0.545	1.1	84	0.00
54	T	cis-1,3-Dichloropropene	0.586	0.575	1.9	87	0.00
55	T	1,1,2-Trichloroethane	0.318	0.315	0.9	87	0.00
56	T	Ethyl methacrylate	0.600	0.558	7.0	82	0.00
57	T	1,3-Dichloropropane	0.568	0.561	1.2	87	0.00
58	T	2-Chloroethyl Vinyl ether	0.254	0.224	11.8	79	0.00
59	T	2-Hexanone	0.387	0.356	8.0	83	0.00
60	T	Dibromochloromethane	0.385	0.386	-0.3	86	0.00
61	T	1,2-Dibromoethane	0.335	0.319	4.8	84	0.00
62	S	4-Bromofluorobenzene	0.454	0.446	1.8	83	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00
64	T	Tetrachloroethene	0.331	0.321	3.0	86	0.00
65	PM	Chlorobenzene	1.105	1.062	3.9	86	0.00
66	T	1,1,1,2-Tetrachloroethane	0.390	0.374	4.1	86	0.00
67	C	Ethyl Benzene	2.027	1.964	3.1#	87	0.00
68	T	m/p-Xylenes	0.759	0.737	2.9	86	0.00
69	T	o-Xylene	0.749	0.708	5.5	84	0.00
70	T	Styrene	1.258	1.229	2.3	85	0.00
71	P	Bromoform	0.295	0.285	3.4	83	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	0.00
73	T	Isopropylbenzene	4.182	3.935	5.9	87	0.00
74	T	N-amyl acetate	2.046	1.748	14.6	82	0.00
75	P	1,1,2,2-Tetrachloroethane	1.183	1.049	11.3	85	0.00
76	T	1,2,3-Trichloropropane	1.097	0.947	13.7	84	0.00
77	T	Bromobenzene	0.929	0.878	5.5	86	0.00
78	T	n-propylbenzene	4.816	4.686	2.7	89	0.00
79	T	2-Chlorotoluene	3.053	2.867	6.1	88	0.00
80	T	1,3,5-Trimethylbenzene	3.501	3.332	4.8	88	0.00
81	T	trans-1,4-Dichloro-2-butene	0.504	0.418	17.1	80	0.00
82	T	4-Chlorotoluene	3.062	2.898	5.4	88	0.00
83	T	tert-Butylbenzene	3.101	2.917	5.9	87	0.00
84	T	1,2,4-Trimethylbenzene	3.529	3.378	4.3	87	0.00
85	T	sec-Butylbenzene	4.231	4.048	4.3	87	0.00
86	T	p-Isopropyltoluene	3.493	3.391	2.9	87	0.00
87	T	1,3-Dichlorobenzene	1.748	1.616	7.6	86	0.00
88	T	1,4-Dichlorobenzene	1.762	1.646	6.6	87	0.00
89	T	n-Butylbenzene	3.027	3.041	-0.5	89	0.00
90	T	Hexachloroethane	0.675	0.631	6.5	86	0.00
91	T	1,2-Dichlorobenzene	1.692	1.553	8.2	86	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.287	0.235	18.1	79	0.00
93	T	1,2,4-Trichlorobenzene	0.948	0.890	6.1	85	0.00
94	T	Hexachlorobutadiene	0.421	0.372	11.6	86	0.00
95	T	Naphthalene	3.357	2.951	12.1	80	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081024\
Data File : VN083197.D
Acq On : 10 Aug 2024 10:46
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Aug 12 01:45:26 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	0.860	8.3	84	0.00

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

Sample Results: **VN083197.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081024\
Data File : VN083197.D
Acq On : 10 Aug 2024 10:46
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Aug 12 01:45:26 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	93	0.00
2	T	Dichlorodifluoromethane	50.000	46.590	6.8	86	0.00
3	P	Chloromethane	50.000	45.603	8.8	83	0.00
4	C	Vinyl Chloride	50.000	46.148	7.7#	85	0.00
5	T	Bromomethane	50.000	45.727	8.5	87	0.00
6	T	Chloroethane	50.000	46.742	6.5	90	0.00
7	T	Trichlorofluoromethane	50.000	48.108	3.8	88	0.00
8	T	Diethyl Ether	50.000	45.351	9.3	83	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	49.057	1.9	90	0.00
10	T	Methyl Iodide	50.000	46.653	6.7	83	0.00
11	T	Tert butyl alcohol	250.000	188.745	24.5	71	0.00
12	CM	1,1-Dichloroethene	50.000	44.885	10.2#	85	0.00
13	T	Acrolein	250.000	251.076	-0.4	88	0.00
14	T	Allyl chloride	50.000	41.635	16.7	87	0.00
15	T	Acrylonitrile	250.000	219.159	12.3	81	0.00
16	T	Acetone	250.000	249.969	0.0	90	0.00
17	T	Carbon Disulfide	50.000	41.344	17.3	80	0.00
18	T	Methyl Acetate	50.000	44.631	10.7	88	0.00
19	T	Methyl tert-butyl Ether	50.000	46.166	7.7	84	0.00
20	T	Methylene Chloride	50.000	43.166	13.7	86	0.00
21	T	trans-1,2-Dichloroethene	50.000	45.728	8.5	85	-0.01
22	T	Diisopropyl ether	50.000	47.292	5.4	86	0.00
23	T	Vinyl Acetate	250.000	234.315	6.3	84	0.00
24	P	1,1-Dichloroethane	50.000	47.971	4.1	88	0.00
25	T	2-Butanone	250.000	221.113	11.6	82	0.00
26	T	2,2-Dichloropropane	50.000	50.494	-1.0	91	0.00
27	T	cis-1,2-Dichloroethene	50.000	46.435	7.1	86	0.00
28	T	Bromochloromethane	50.000	43.873	12.3	81	0.00
29	T	Tetrahydrofuran	250.000	215.054	14.0	79	0.00
30	C	Chloroform	50.000	48.778	2.4#	89	0.00
31	T	Cyclohexane	50.000	41.601	16.8	83	0.00
32	T	1,1,1-Trichloroethane	50.000	48.369	3.3	88	0.00
33	S	1,2-Dichloroethane-d4	50.000	49.606	0.8	88	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	92	0.00
35	S	Dibromofluoromethane	50.000	48.770	2.5	84	0.00
36	T	1,1-Dichloropropene	50.000	48.071	3.9	88	0.00
37	T	Ethyl Acetate	50.000	43.184	13.6	84	0.00
38	T	Carbon Tetrachloride	50.000	49.098	1.8	88	0.00
39	T	Methylcyclohexane	50.000	46.750	6.5	84	0.00
40	TM	Benzene	50.000	47.915	4.2	86	0.00
41	T	Methacrylonitrile	50.000	43.992	12.0	86	0.00
42	TM	1,2-Dichloroethane	50.000	49.615	0.8	90	0.00
43	T	Isopropyl Acetate	50.000	43.999	12.0	81	0.00
44	TM	Trichloroethene	50.000	48.199	3.6	86	0.00
45	C	1,2-Dichloropropane	50.000	48.825	2.3#	87	0.00
46	T	Dibromomethane	50.000	49.042	1.9	86	0.00
47	T	Bromodichloromethane	50.000	48.534	2.9	89	0.00
48	T	Methyl methacrylate	50.000	45.268	9.5	86	0.00

Sample Results: **VN083197.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081024\
Data File : VN083197.D
Acq On : 10 Aug 2024 10:46
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Aug 12 01:45:26 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	827.792	17.2	73	0.00
50	S	Toluene-d8	50.000	49.024	2.0	83	0.00
51	T	4-Methyl-2-Pentanone	250.000	230.946	7.6	82	0.00
52	CM	Toluene	50.000	48.819	2.4#	86	0.00
53	T	t-1,3-Dichloropropene	50.000	49.432	1.1	84	0.00
54	T	cis-1,3-Dichloropropene	50.000	49.003	2.0	87	0.00
55	T	1,1,2-Trichloroethane	50.000	49.523	1.0	87	0.00
56	T	Ethyl methacrylate	50.000	46.507	7.0	82	0.00
57	T	1,3-Dichloropropane	50.000	49.438	1.1	87	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	220.686	11.7	79	0.00
59	T	2-Hexanone	250.000	230.402	7.8	83	0.00
60	T	Dibromochloromethane	50.000	50.067	-0.1	86	0.00
61	T	1,2-Dibromoethane	50.000	47.605	4.8	84	0.00
62	S	4-Bromofluorobenzene	50.000	49.137	1.7	83	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	92	0.00
64	T	Tetrachloroethene	50.000	48.451	3.1	86	0.00
65	PM	Chlorobenzene	50.000	48.035	3.9	86	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	47.941	4.1	86	0.00
67	C	Ethyl Benzene	50.000	48.454	3.1#	87	0.00
68	T	m/p-Xylenes	100.000	97.000	3.0	86	0.00
69	T	o-Xylene	50.000	47.242	5.5	84	0.00
70	T	Styrene	50.000	48.856	2.3	85	0.00
71	P	Bromoform	50.000	48.302	3.4	83	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	94	0.00
73	T	Isopropylbenzene	50.000	47.051	5.9	87	0.00
74	T	N-amyl acetate	50.000	42.736	14.5	82	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	44.329	11.3	85	0.00
76	T	1,2,3-Trichloropropane	50.000	43.162	13.7	84	0.00
77	T	Bromobenzene	50.000	47.231	5.5	86	0.00
78	T	n-propylbenzene	50.000	48.649	2.7	89	0.00
79	T	2-Chlorotoluene	50.000	46.954	6.1	88	0.00
80	T	1,3,5-Trimethylbenzene	50.000	47.576	4.8	88	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	41.447	17.1	80	0.00
82	T	4-Chlorotoluene	50.000	47.321	5.4	88	0.00
83	T	tert-Butylbenzene	50.000	47.039	5.9	87	0.00
84	T	1,2,4-Trimethylbenzene	50.000	47.870	4.3	87	0.00
85	T	sec-Butylbenzene	50.000	47.840	4.3	87	0.00
86	T	p-Isopropyltoluene	50.000	48.538	2.9	87	0.00
87	T	1,3-Dichlorobenzene	50.000	46.212	7.6	86	0.00
88	T	1,4-Dichlorobenzene	50.000	46.710	6.6	87	0.00
89	T	n-Butylbenzene	50.000	50.228	-0.5	89	0.00
90	T	Hexachloroethane	50.000	46.731	6.5	86	0.00
91	T	1,2-Dichlorobenzene	50.000	45.896	8.2	86	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	41.008	18.0	79	0.00
93	T	1,2,4-Trichlorobenzene	50.000	46.947	6.1	85	0.00
94	T	Hexachlorobutadiene	50.000	44.179	11.6	86	0.00
95	T	Naphthalene	50.000	43.952	12.1	80	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081024\
Data File : VN083197.D
Acq On : 10 Aug 2024 10:46
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Aug 12 01:45:26 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	45.874	8.3	84	0.00

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

Raw Data: **VX042963.D**

Alliance TECHNICAL GROUP
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.: P3457 SAS No.: P3457 SDG No.: P3457

Instrument ID: MSVOA_X Calibration Date/Time: 08/09/2024 00:35

Lab File ID: VX042963.D Init. Calib. Date(s): 08/06/2024 08/06/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 18:18 20:15

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.539	0.555		2.97	20
Chloromethane	0.587	0.568	0.1	-3.24	20
Vinyl Chloride	0.557	0.568		1.98	20
Bromomethane	0.337	0.335		-0.59	20
Chloroethane	0.317	0.305		-3.79	20
1,1,2-Trichlorotrifluoroethane	0.545	0.553		1.47	20
1,1-Dichloroethene	0.551	0.544		-1.27	20
Acetone	0.298	0.275		-7.72	20
Carbon Disulfide	1.341	1.241		-7.46	20
Methyl tert-butyl Ether	1.855	1.895		2.16	20
Methylene Chloride	0.705	0.632		-10.35	20
trans-1,2-Dichloroethene	0.554	0.556		0.36	20
1,1-Dichloroethane	1.052	1.078	0.1	2.47	20
Cyclohexane	0.859	0.871		1.4	20
2-Butanone	0.468	0.471		0.64	20
Carbon Tetrachloride	0.500	0.492		-1.6	20
cis-1,2-Dichloroethene	0.658	0.669		1.67	20
Chloroform	1.101	1.112		1	20
1,1,1-Trichloroethane	0.970	0.977		0.72	20
Methylcyclohexane	0.527	0.536		1.71	20
Benzene	1.376	1.392		1.16	20
1,2-Dichloroethane	0.500	0.512		2.4	20
Trichloroethene	0.346	0.335		-3.18	20
Bromodichloromethane	0.476	0.491		3.15	20
Toluene	0.834	0.851		2.04	20
1,1,2-Trichloroethane	0.339	0.343		1.18	20
Dibromochloromethane	0.373	0.376		0.8	20
Tetrachloroethene	0.348	0.355		2.01	20
Chlorobenzene	1.061	1.054	0.3	-0.75	20
Ethyl Benzene	1.785	1.819		1.9	20
m/p-Xylenes	0.681	0.705		3.52	20
o-Xylene	0.683	0.690		1.02	20
Isopropylbenzene	3.615	3.594		-0.58	20
1,4-Dichlorobenzene	1.706	1.603		-6.04	20
1,2-Dichlorobenzene	1.666	1.660		-0.36	20
1,2-Dichloroethane-d4	0.686	0.717		4.52	20
Dibromofluoromethane	0.327	0.337		3.06	20
Toluene-d8	1.161	1.170		0.77	20

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

Raw Data: **VX042963.D**

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.: P3457 SAS No.: P3457 SDG No.: P3457

Instrument ID: MSVOA_X Calibration Date/Time: 08/09/2024 00:35

Lab File ID: VX042963.D Init. Calib. Date(s): 08/06/2024 08/06/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 18:18 20:15

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
4-Bromofluorobenzene	0.417	0.435		4.32	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_X\Data\VX080824\
Data File : VX042963.D
Acq On : 09 Aug 2024 00:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Aug 09 05:46:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	230896	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	388392	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	344983	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	171900	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	165530	52.222	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 104.440%			
35) Dibromofluoromethane	5.385	113	130792	51.503	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.000%			
50) Toluene-d8	8.647	98	454584	50.424	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 100.840%			
62) 4-Bromofluorobenzene	11.079	95	169054	52.183	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 104.360%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	128041	51.447	ug/l	97
3) Chloromethane	1.294	50	131186	48.378	ug/l	99
4) Vinyl Chloride	1.374	62	131056	50.938	ug/l	99
5) Bromomethane	1.599	94	77237	49.603	ug/l	95
6) Chloroethane	1.666	64	70510	48.105	ug/l	98
7) Trichlorofluoromethane	1.867	101	190294	47.558	ug/l	99
8) Diethyl Ether	2.136	74	75171	51.076	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.319	101	127617	50.728	ug/l	96
10) Methyl Iodide	2.447	142	149133	57.331	ug/l	94
11) Tert butyl alcohol	3.001	59	160224	254.130	ug/l #	93
12) 1,1-Dichloroethene	2.306	96	125688	49.387	ug/l	94
13) Acrolein	2.239	56	174617	280.978	ug/l	100
14) Allyl chloride	2.660	41	198951	51.736	ug/l	94
15) Acrylonitrile	3.068	53	402559	250.160	ug/l	98
16) Acetone	2.392	43	317836	231.180	ug/l	94
17) Carbon Disulfide	2.501	76	286448	46.253	ug/l	99
18) Methyl Acetate	2.709	43	213179	48.896	ug/l	98
19) Methyl tert-butyl Ether	3.117	73	437437	51.067	ug/l	98
20) Methylene Chloride	2.788	84	145892	51.342	ug/l	89
21) trans-1,2-Dichloroethene	3.087	96	128409	50.151	ug/l	94
22) Diisopropyl ether	3.763	45	438015	51.849	ug/l	99
23) Vinyl Acetate	3.721	43	2531322	264.011	ug/l	99
24) 1,1-Dichloroethane	3.605	63	248910	51.231	ug/l	99
25) 2-Butanone	4.568	43	543727	251.832	ug/l	96
26) 2,2-Dichloropropane	4.477	77	142503	47.710	ug/l	95
27) cis-1,2-Dichloroethene	4.483	96	154500	50.881	ug/l	91
28) Bromochloromethane	4.897	49	86114	46.191	ug/l	90
29) Tetrahydrofuran	5.013	42	359145	246.162	ug/l	96
30) Chloroform	5.092	83	256730	50.475	ug/l	98
31) Cyclohexane	5.470	56	201125	50.711	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	225582	50.380	ug/l	98
36) 1,1-Dichloropropene	5.690	75	167663	48.696	ug/l	97
37) Ethyl Acetate	4.721	43	213816	49.634	ug/l	100
38) Carbon Tetrachloride	5.672	117	191253	49.208	ug/l	98
39) Methylcyclohexane	7.379	83	208147	50.855	ug/l	97
40) Benzene	6.037	78	540540	50.585	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080824\
Data File : VX042963.D
Acq On : 09 Aug 2024 00:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Aug 09 05:46:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	117761	53.074	ug/l		95
42) 1,2-Dichloroethane	6.086	62	198686	51.118	ug/l		98
43) Isopropyl Acetate	6.342	43	323706	50.810	ug/l		97
44) Trichloroethene	7.123	130	130004	48.418	ug/l		99
45) 1,2-Dichloropropane	7.427	63	135753	50.081	ug/l		98
46) Dibromomethane	7.580	93	98555	49.504	ug/l		92
47) Bromodichloromethane	7.824	83	190883	51.613	ug/l		98
48) Methyl methacrylate	7.696	41	159465	52.200	ug/l		93
49) 1,4-Dioxane	7.671	88	71425	1053.240	ug/l	#	77
51) 4-Methyl-2-Pentanone	8.574	43	1096319	256.900	ug/l		98
52) Toluene	8.720	92	330378	50.970	ug/l		95
53) t-1,3-Dichloropropene	8.976	75	177518	51.925	ug/l		99
54) cis-1,3-Dichloropropene	8.366	75	196284	51.987	ug/l		91
55) 1,1,2-Trichloroethane	9.153	97	133107	50.514	ug/l		95
56) Ethyl methacrylate	9.116	69	221080	52.139	ug/l		94
57) 1,3-Dichloropropane	9.311	76	221482	51.309	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	520447	260.423	ug/l		99
59) 2-Hexanone	9.433	43	851257	257.430	ug/l		98
60) Dibromochloromethane	9.518	129	145965	50.426	ug/l		99
61) 1,2-Dibromoethane	9.610	107	138850	49.874	ug/l		98
64) Tetrachloroethene	9.275	164	122311	50.990	ug/l		97
65) Chlorobenzene	10.079	112	363438	49.645	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.165	131	127582	50.542	ug/l		99
67) Ethyl Benzene	10.195	91	627608	50.967	ug/l		99
68) m/p-Xylenes	10.299	106	486741	103.541	ug/l		98
69) o-Xylene	10.640	106	237902	50.519	ug/l		100
70) Styrene	10.652	104	404874	53.465	ug/l		97
71) Bromoform	10.799	173	106203	49.661	ug/l	#	98
73) Isopropylbenzene	10.963	105	617769	49.707	ug/l		99
74) N-amyl acetate	10.841	43	288890	51.660	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	215267	47.281	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	177321m	45.867	ug/l		
77) Bromobenzene	11.195	156	153558	48.572	ug/l		91
78) n-propylbenzene	11.305	91	702040	50.854	ug/l		100
79) 2-Chlorotoluene	11.366	91	431805	48.801	ug/l		97
80) 1,3,5-Trimethylbenzene	11.451	105	523023	50.825	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	59077	49.687	ug/l		95
82) 4-Chlorotoluene	11.451	91	502147	50.490	ug/l		97
83) tert-Butylbenzene	11.713	119	514187	48.620	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	533084	51.456	ug/l		99
85) sec-Butylbenzene	11.890	105	640814	51.459	ug/l		100
86) p-Isopropyltoluene	12.006	119	535150	51.724	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	280005	48.939	ug/l		97
88) 1,4-Dichlorobenzene	12.042	146	275470	46.973	ug/l		98
89) n-Butylbenzene	12.329	91	457293	51.234	ug/l		98
90) Hexachloroethane	12.536	117	90957	48.060	ug/l		87
91) 1,2-Dichlorobenzene	12.335	146	285380	49.810	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.945	75	49362	49.342	ug/l		86
93) 1,2,4-Trichlorobenzene	13.585	180	169249	48.429	ug/l		97
94) Hexachlorobutadiene	13.725	225	71871	48.490	ug/l		98
95) Naphthalene	13.774	128	613742	50.750	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	177541	50.468	ug/l		99

Sample Results: **VX042963.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080824\
Data File : VX042963.D
Acq On : 09 Aug 2024 00:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Aug 09 05:46:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

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

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

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

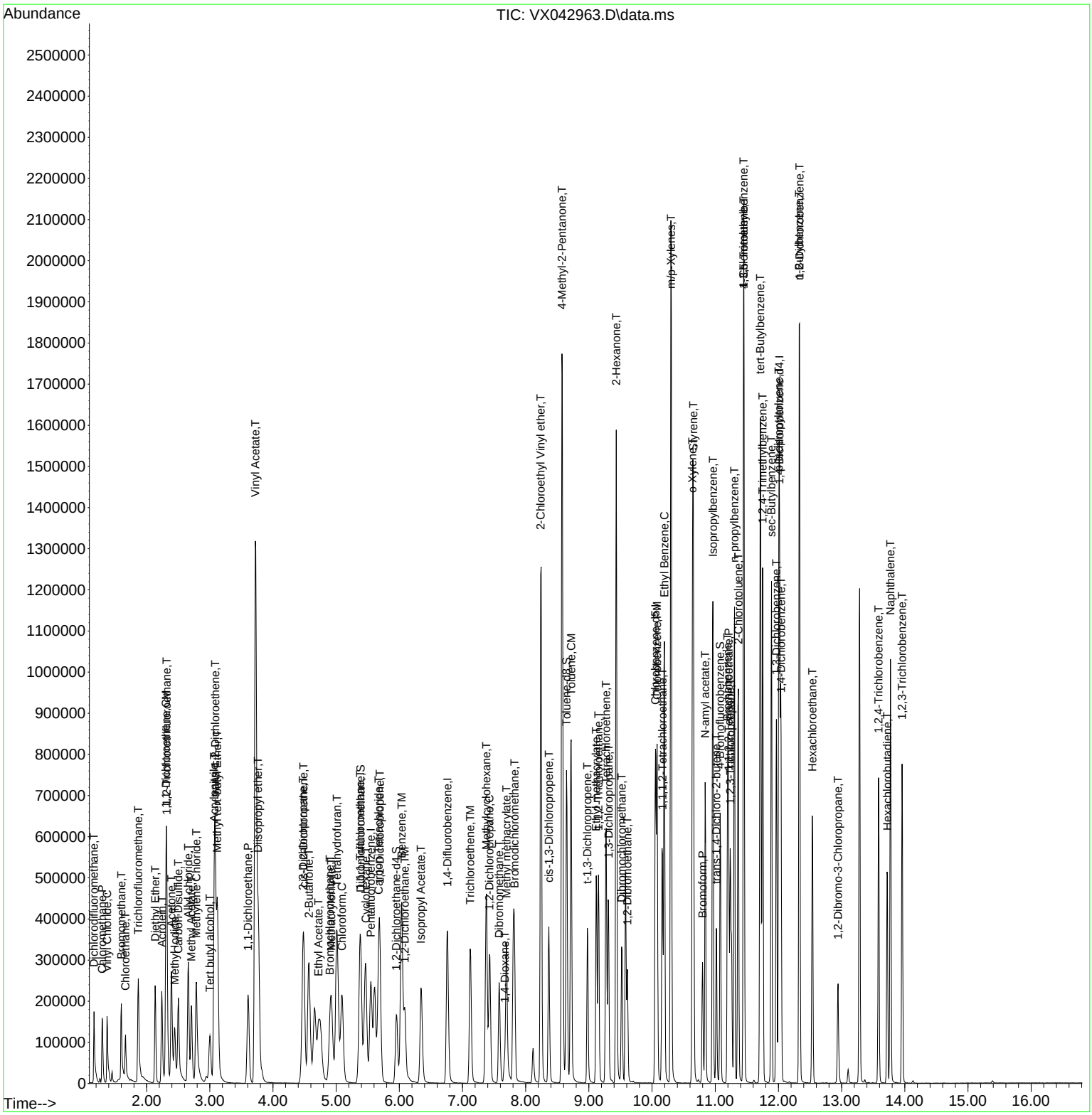
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080824\
Data File : VX042963.D
Acq On : 09 Aug 2024 00:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

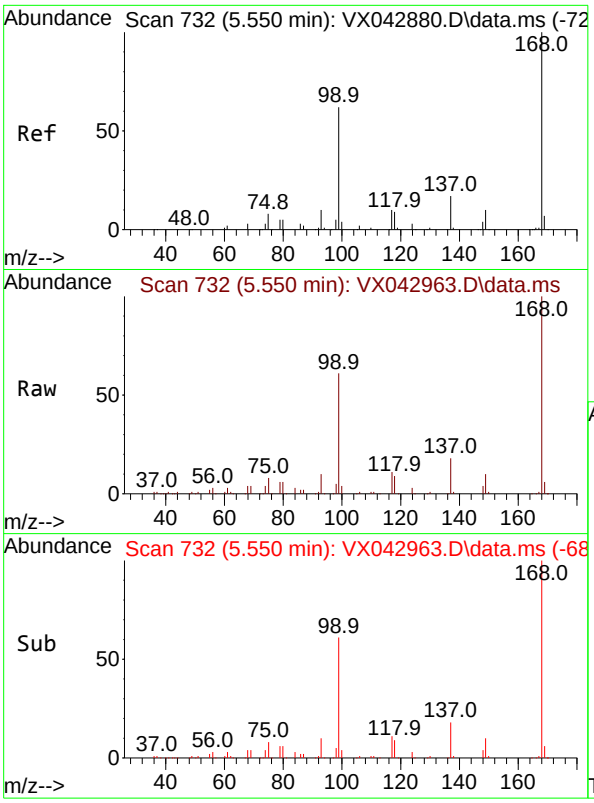
Quant Time: Aug 09 05:46:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

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

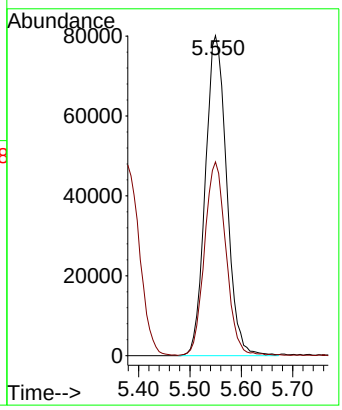




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion:168 Resp: 23089

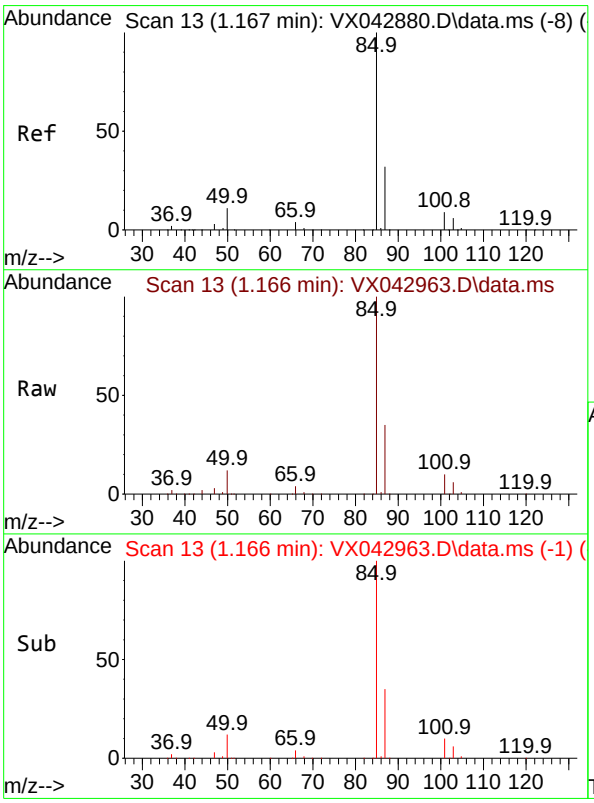
Ion	Ratio	Lower	Upper
168	100		
99	60.4	56.6	85.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

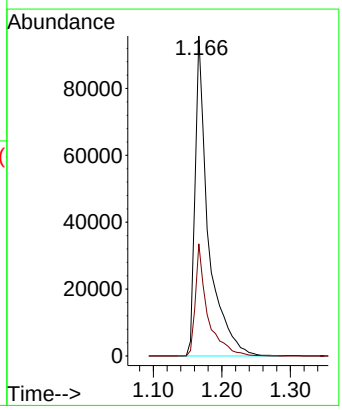
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

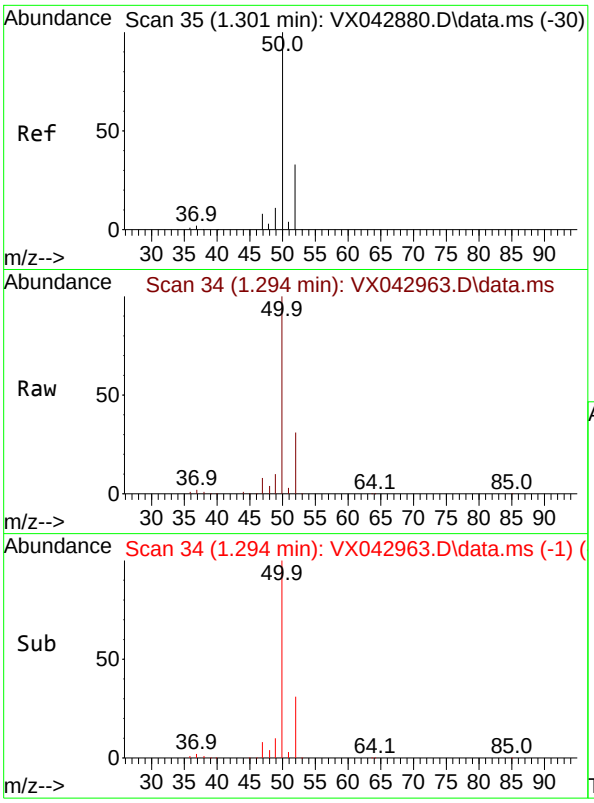


#2
Dichlorodifluoromethane
Concen: 51.447 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 85 Resp: 128041

Ion	Ratio	Lower	Upper
85	100		
87	35.0	16.7	50.1





#3
Chloromethane
Concen: 48.378 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.006 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

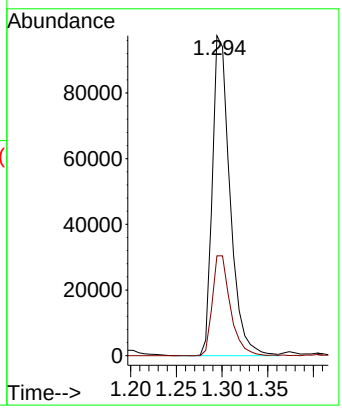
Tgt Ion: 50 Resp: 13118

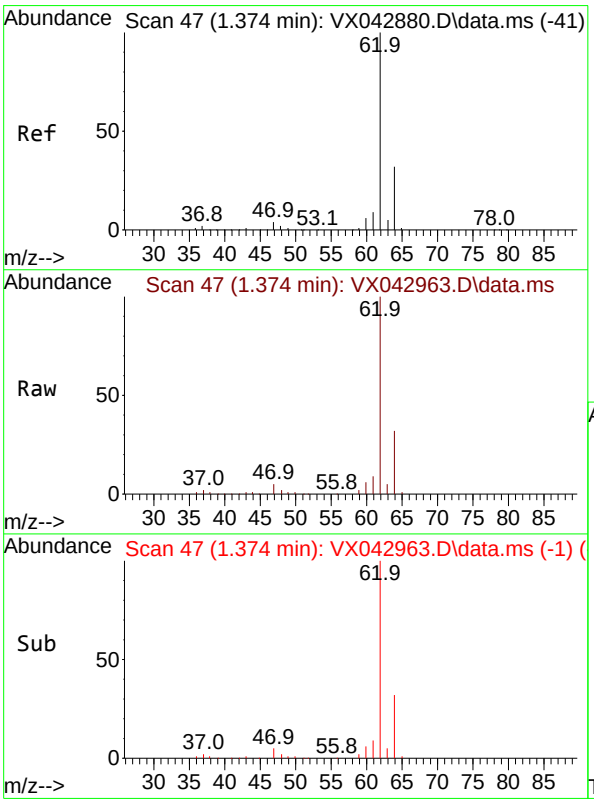
Ion	Ratio	Lower	Upper
50	100		
52	31.2	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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

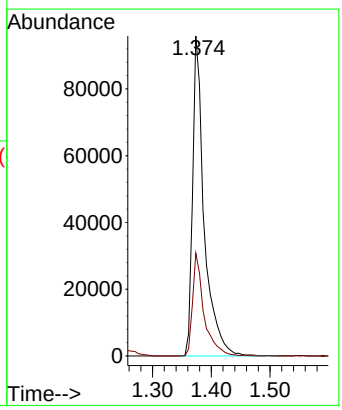


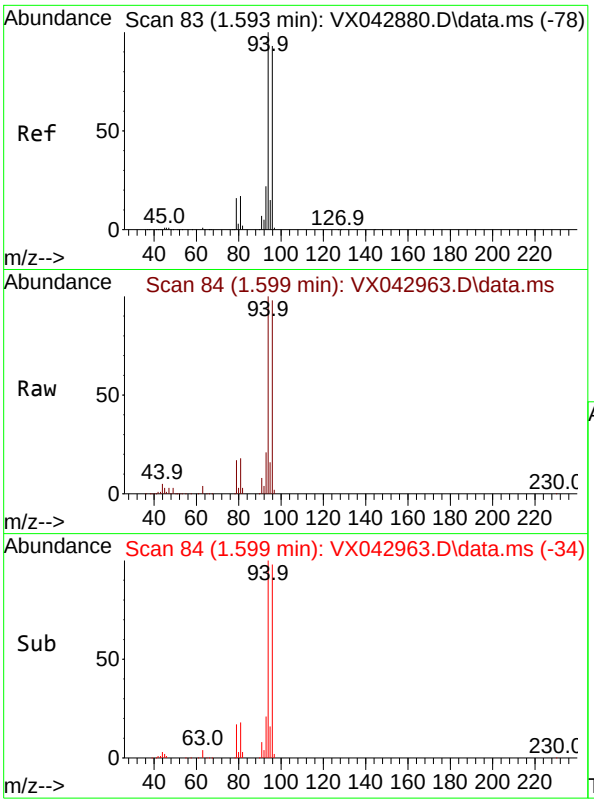


#4
Vinyl Chloride
Concen: 50.938 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 62 Resp: 131056

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.4	38.0





#5
Bromomethane
Concen: 49.603 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.006 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

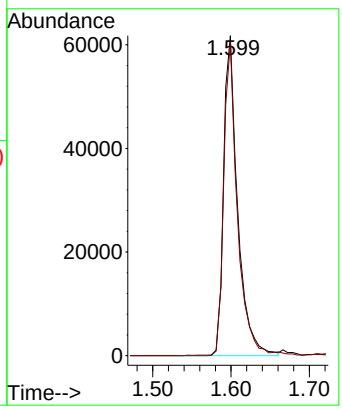
Tgt Ion: 94 Resp: 7723

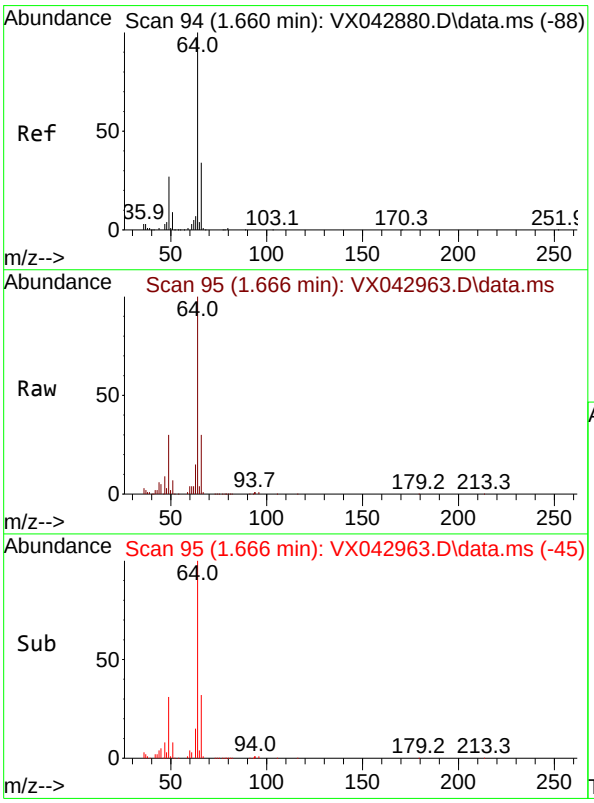
Ion	Ratio	Lower	Upper
94	100		
96	97.8	74.6	111.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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

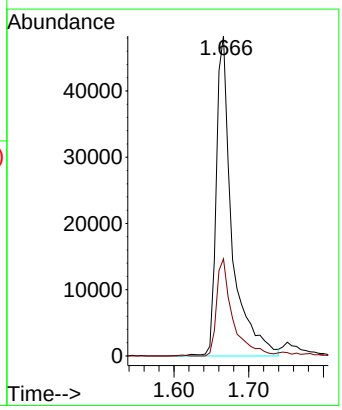


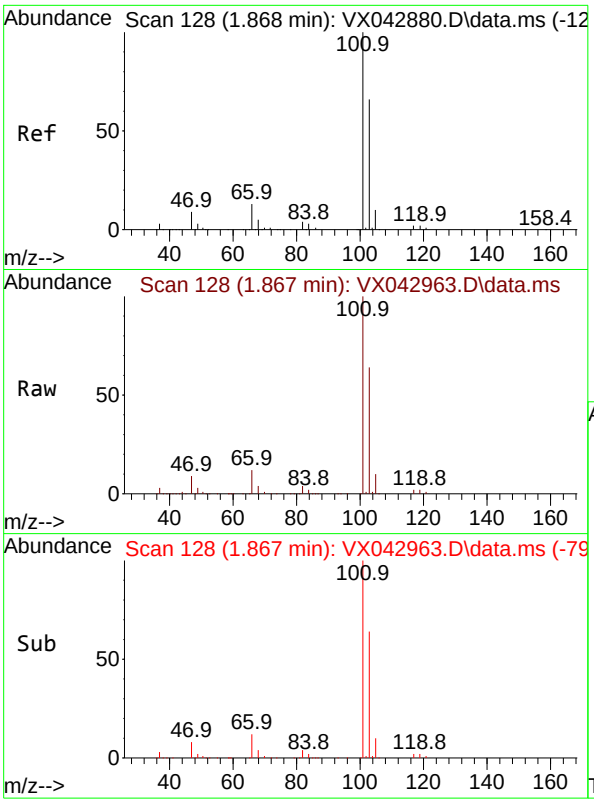


#6
Chloroethane
Concen: 48.105 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.006 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 64 Resp: 70510

Ion	Ratio	Lower	Upper
64	100		
66	30.2	25.1	37.7

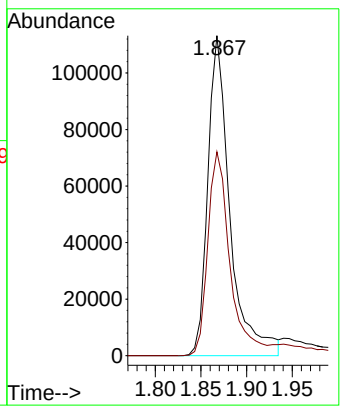




#7
Trichlorofluoromethane
Concen: 47.558 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion:101 Resp: 19029

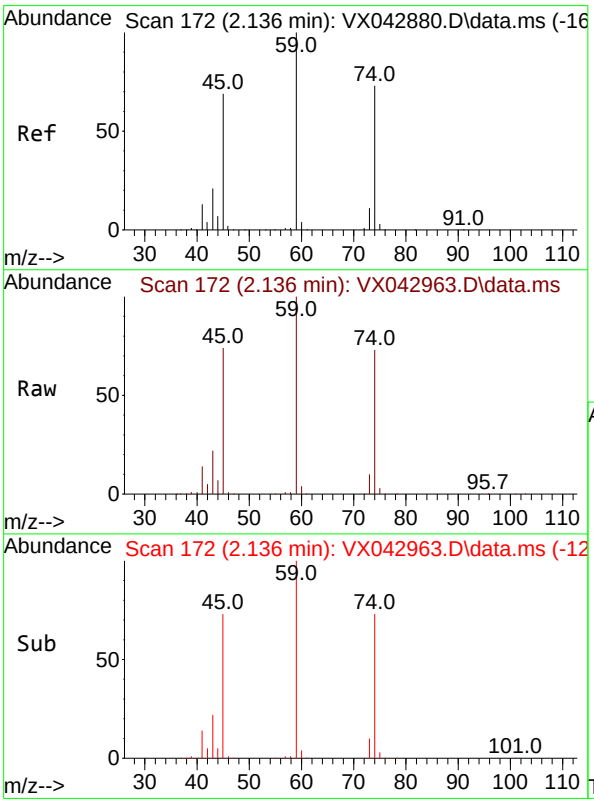
Ion	Ratio	Lower	Upper
101	100		
103	63.7	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

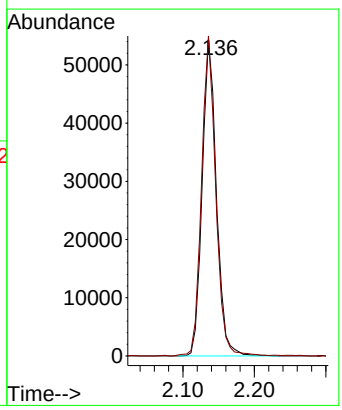
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

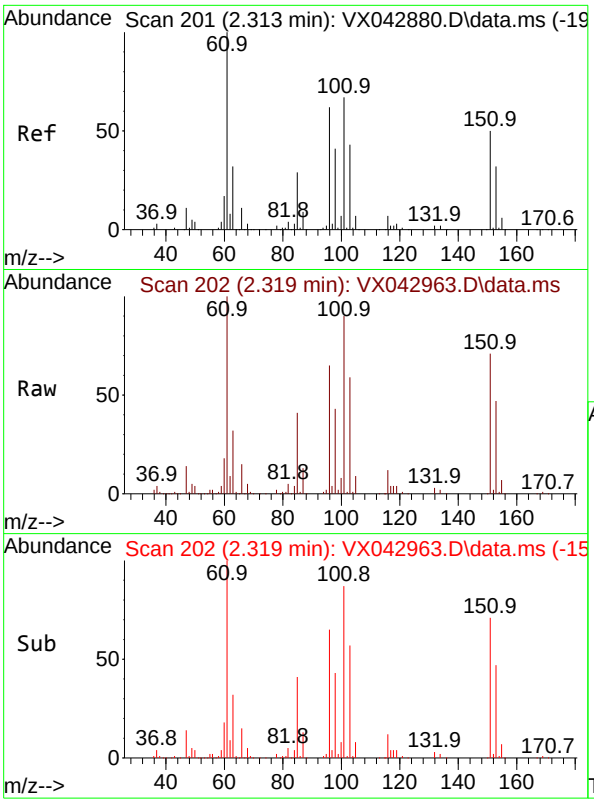


#8
Diethyl Ether
Concen: 51.076 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 74 Resp: 75171

Ion	Ratio	Lower	Upper
74	100		
45	100.8	53.3	159.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.728 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

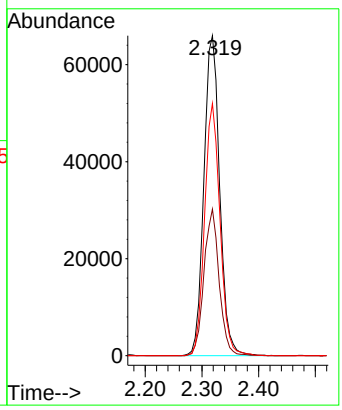
Tgt Ion:101 Resp: 12761

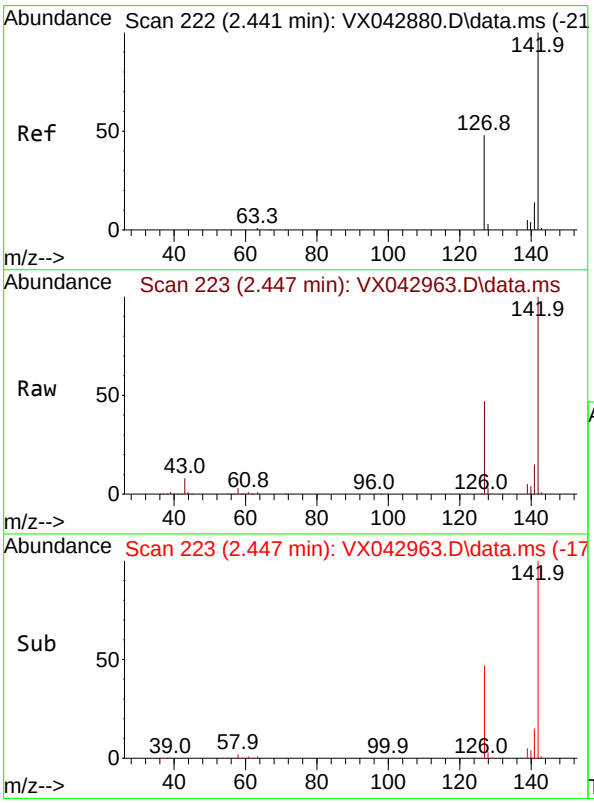
Ion	Ratio	Lower	Upper
101	100		
85	44.1	37.0	55.6
151	77.0	58.6	87.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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

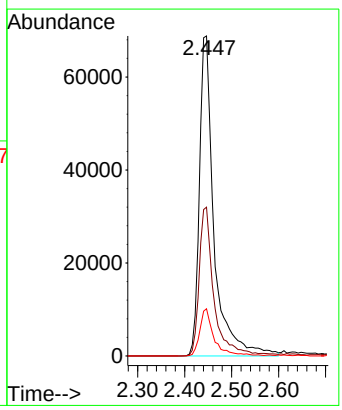


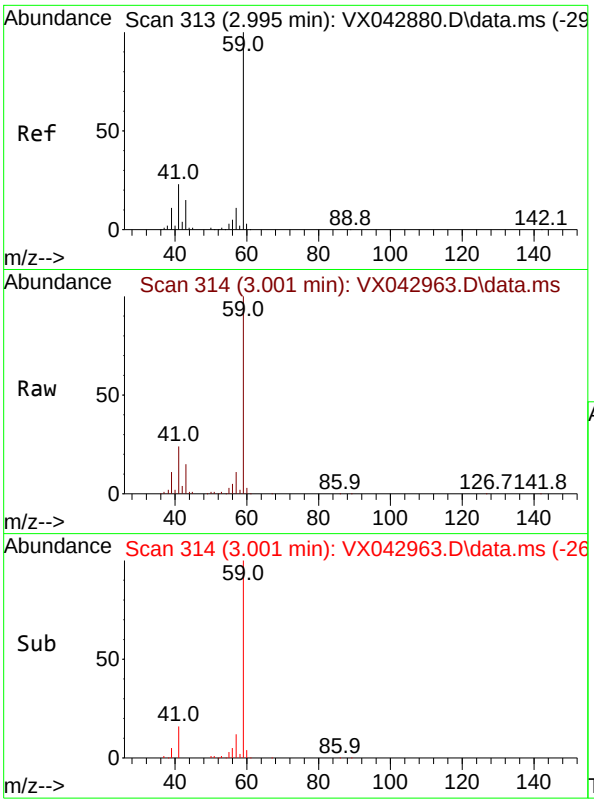


#10
Methyl Iodide
Concen: 57.331 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.006 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion:142 Resp: 149133

Ion	Ratio	Lower	Upper
142	100		
127	47.0	41.6	62.4
141	14.4	11.6	17.4





#11
Tert butyl alcohol
Concen: 254.130 ug/l
RT: 3.001 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

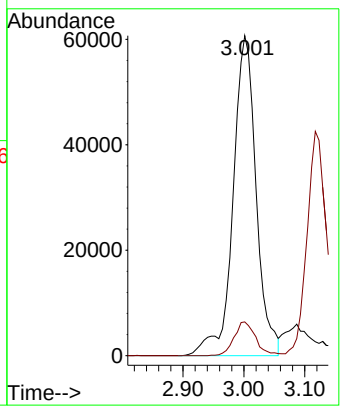
Tgt Ion: 59 Resp: 16022

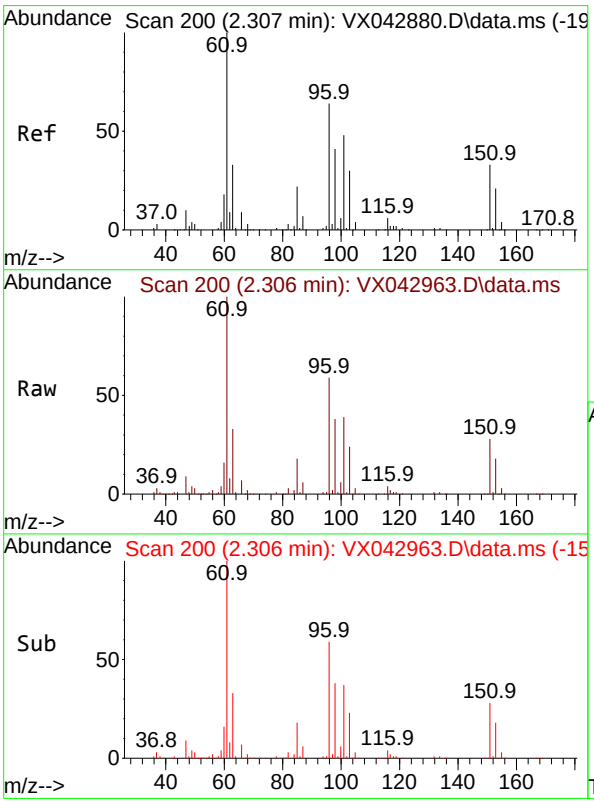
Ion	Ratio	Lower	Upper
59	100		
57	10.0	6.0	9.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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

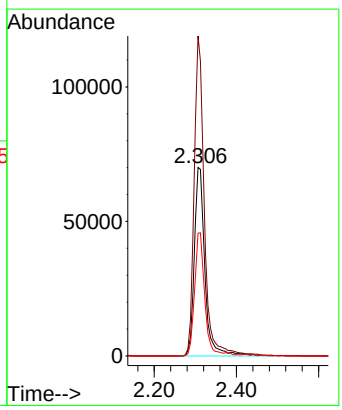


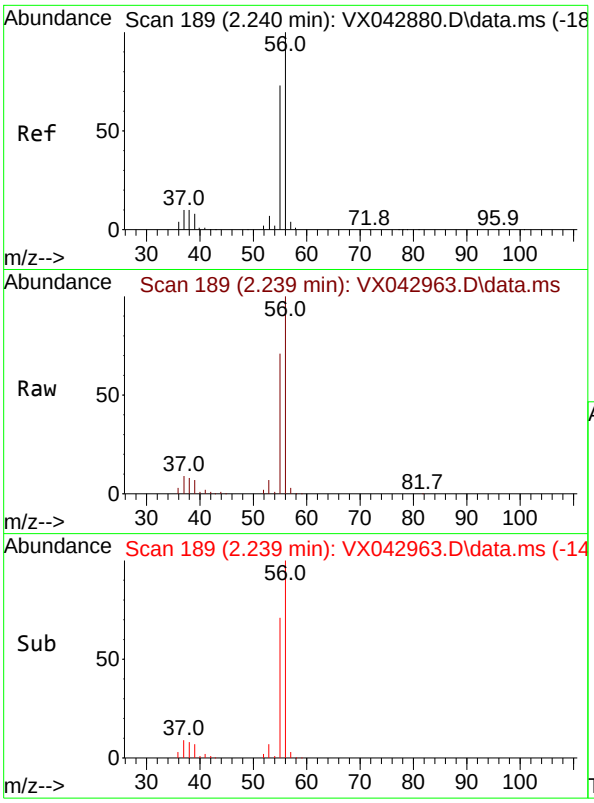


#12
1,1-Dichloroethene
Concen: 49.387 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 96 Resp: 125688

Ion	Ratio	Lower	Upper
96	100		
61	169.8	144.6	216.8
98	65.1	50.4	75.6

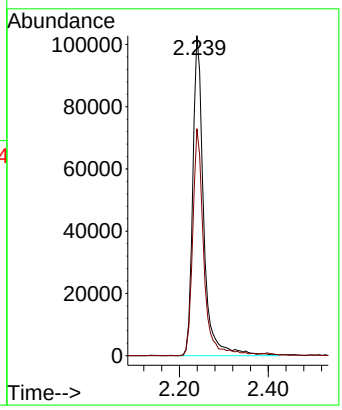




#13
Acrolein
Concen: 280.978 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 56 Resp: 17461

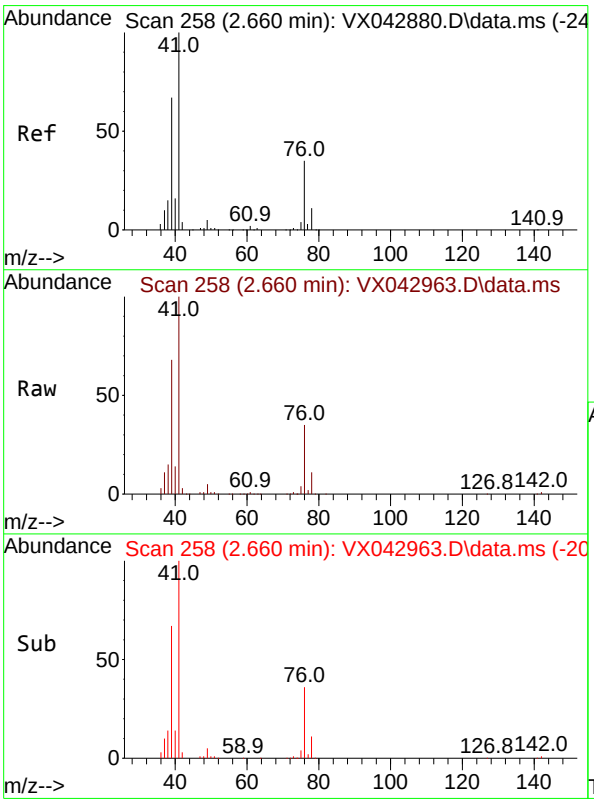
Ion	Ratio	Lower	Upper
56	100		
55	71.7	57.1	85.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

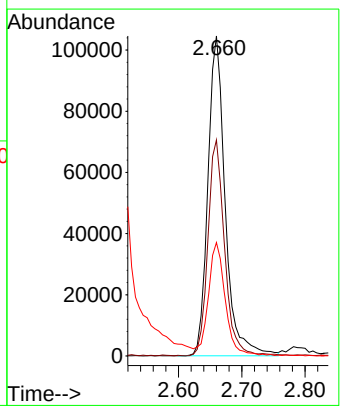
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

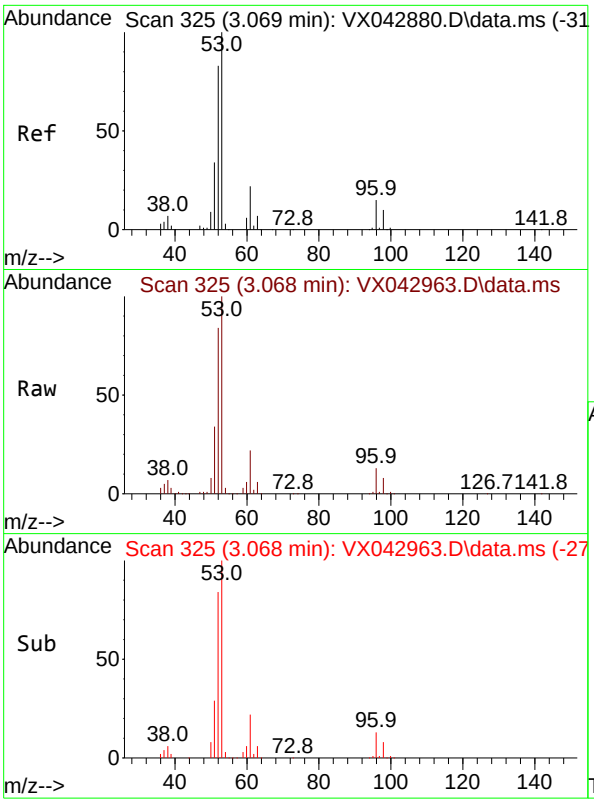


#14
Allyl chloride
Concen: 51.736 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 41 Resp: 198951

Ion	Ratio	Lower	Upper
41	100		
39	64.9	55.8	83.6
76	34.5	24.3	36.5

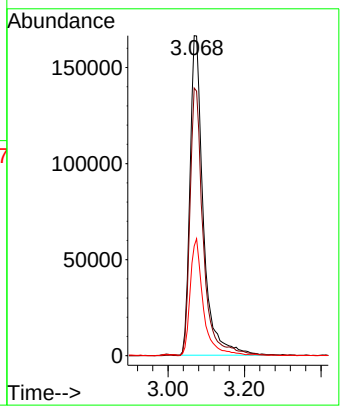




#15
Acrylonitrile
Concen: 250.160 ug/l
RT: 3.068 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 53 Resp: 40255

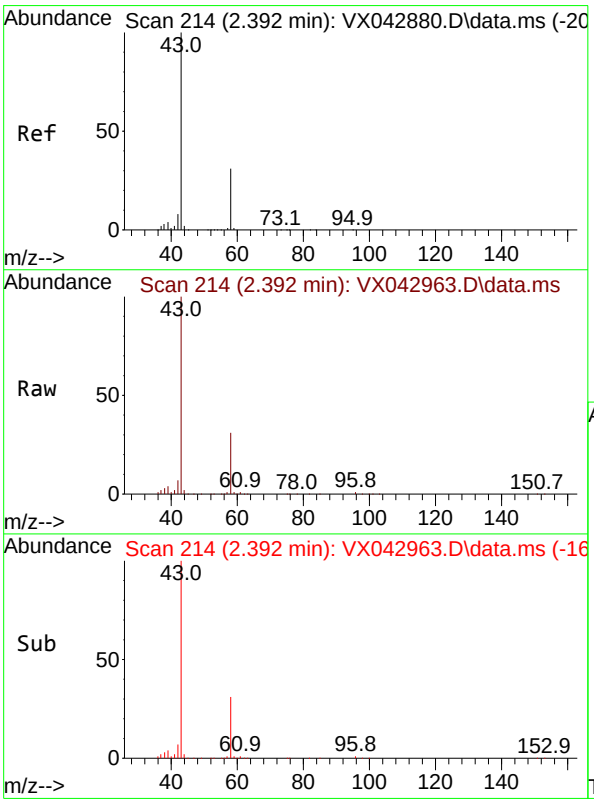
Ion	Ratio	Lower	Upper
53	100		
52	83.4	66.0	99.0
51	35.5	29.8	44.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

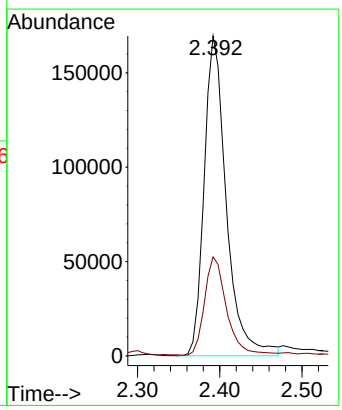
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

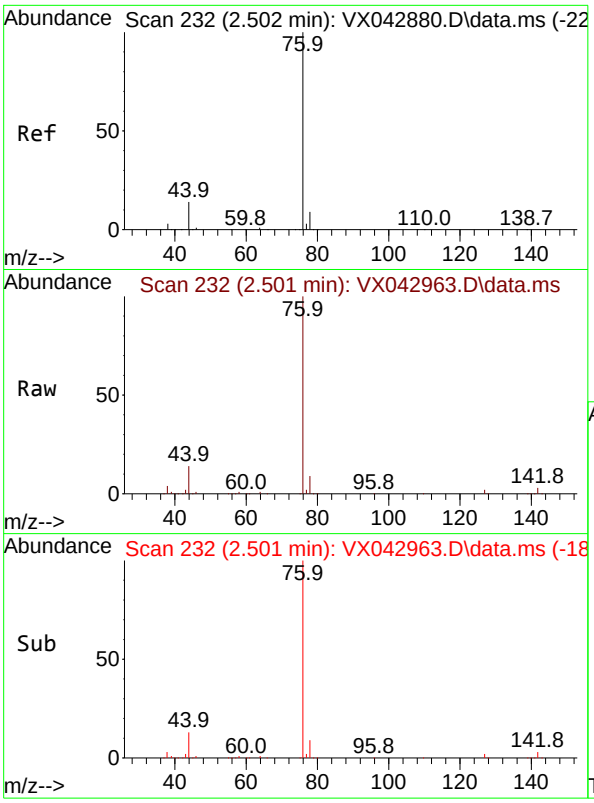


#16
Acetone
Concen: 231.180 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 43 Resp: 317836

Ion	Ratio	Lower	Upper
43	100		
58	30.6	21.9	32.9

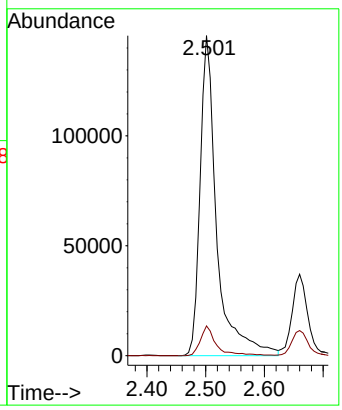




#17
Carbon Disulfide
Concen: 46.253 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 76 Resp: 28644

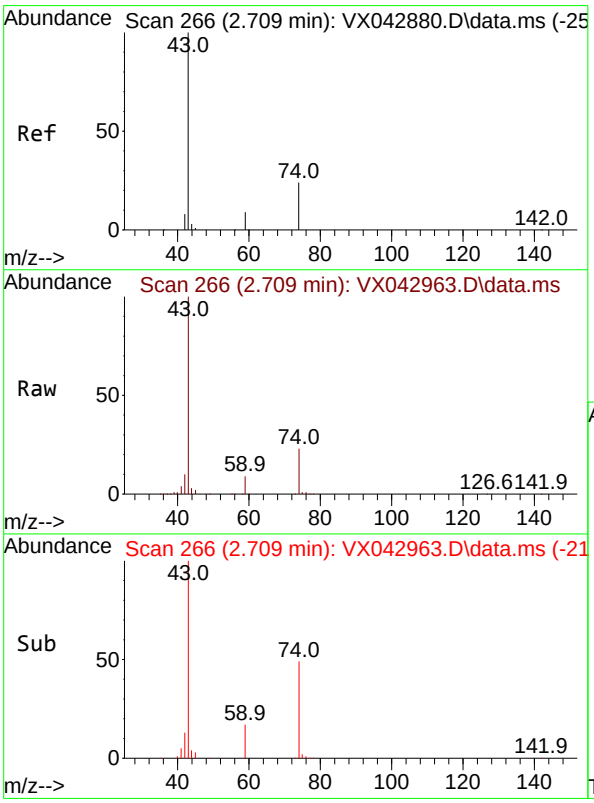
Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.0	10.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

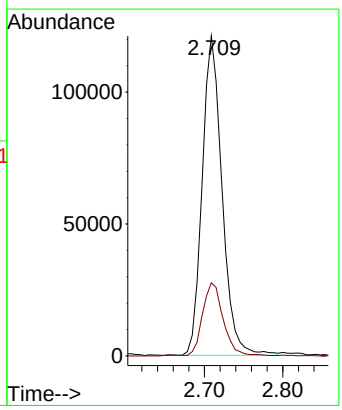
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

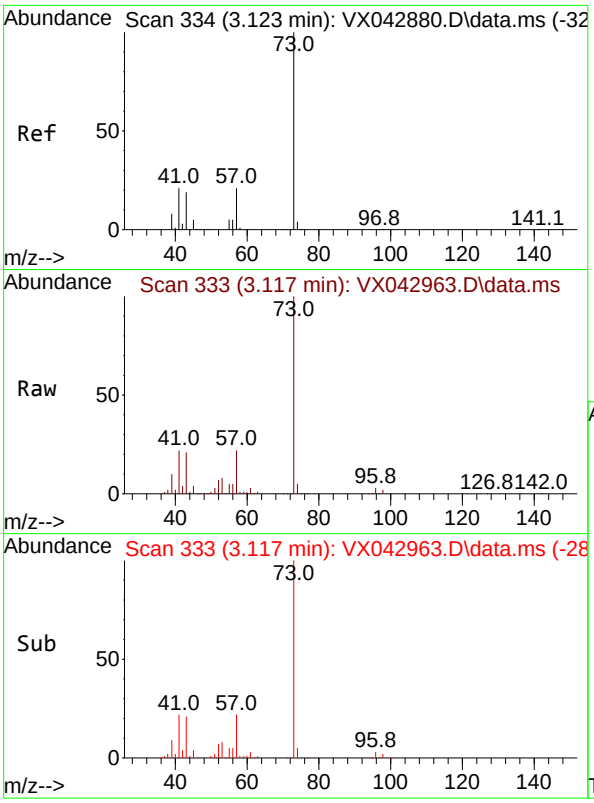


#18
Methyl Acetate
Concen: 48.896 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 43 Resp: 213179

Ion	Ratio	Lower	Upper
43	100		
74	23.2	17.8	26.8

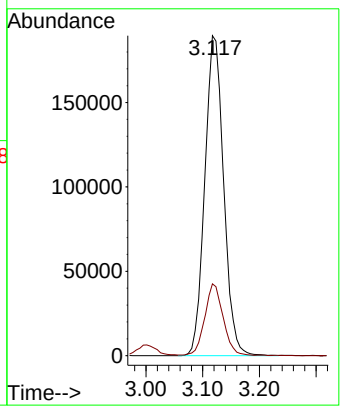




#19
Methyl tert-butyl Ether
Concen: 51.067 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 73 Resp: 43743

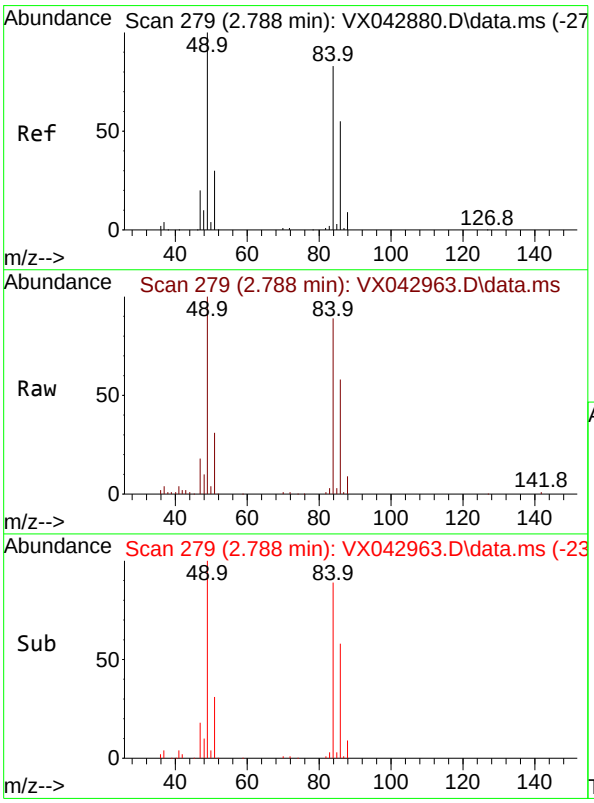
Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.3	25.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

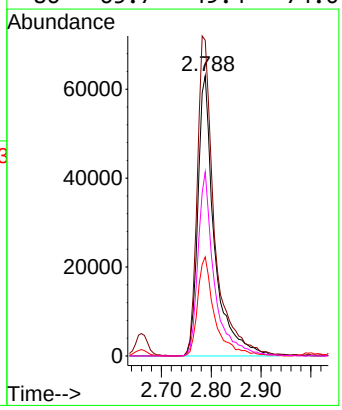
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

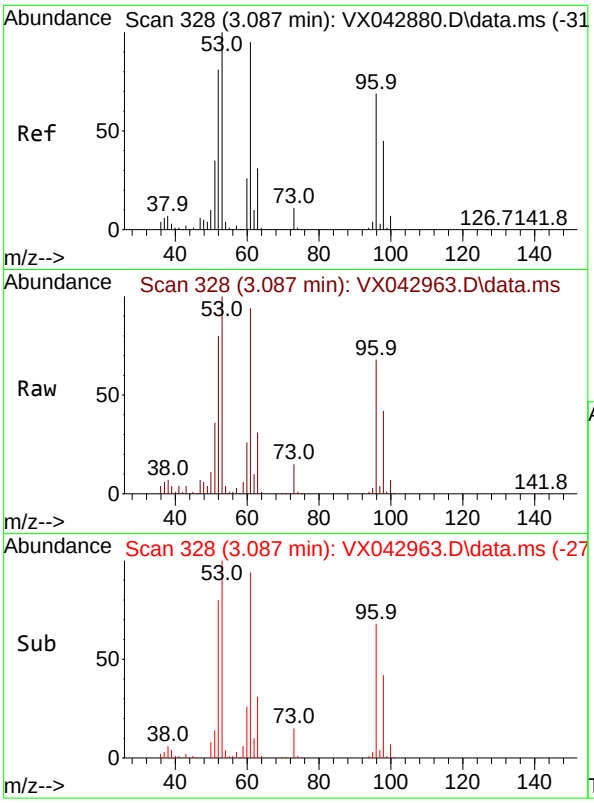


#20
Methylene Chloride
Concen: 51.342 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 84 Resp: 145892

Ion	Ratio	Lower	Upper
84	100		
49	112.7	103.6	155.4
51	35.4	33.8	50.6
86	65.7	49.4	74.0

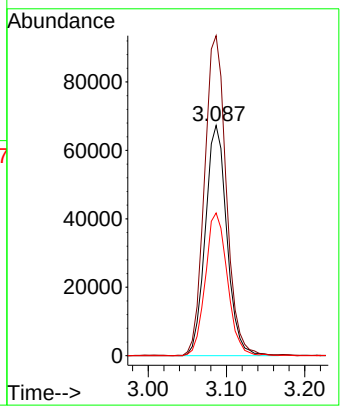




#21
trans-1,2-Dichloroethene
Concen: 50.151 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 96 Resp: 12840

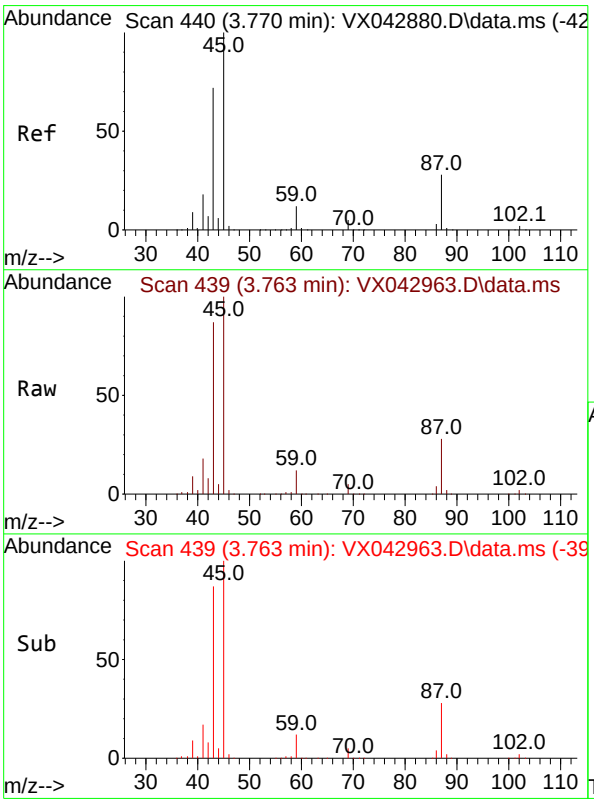
Ion	Ratio	Lower	Upper
96	100		
61	138.8	119.2	178.8
98	62.0	48.7	73.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

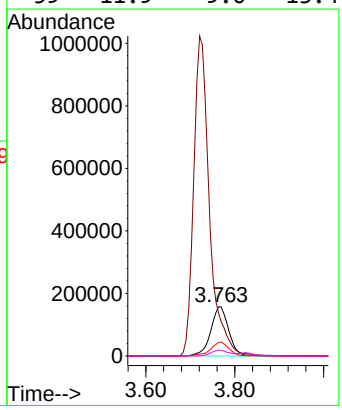
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

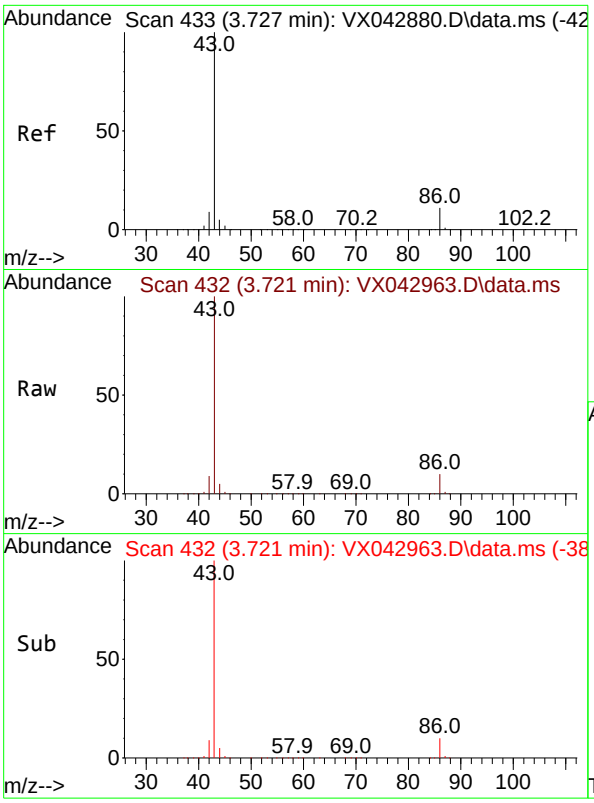


#22
Diisopropyl ether
Concen: 51.849 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.006 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 45 Resp: 438015

Ion	Ratio	Lower	Upper
45	100		
43	87.0	69.7	104.5
87	27.7	20.8	31.2
59	11.9	9.0	13.4





#23
Vinyl Acetate
Concen: 264.011 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

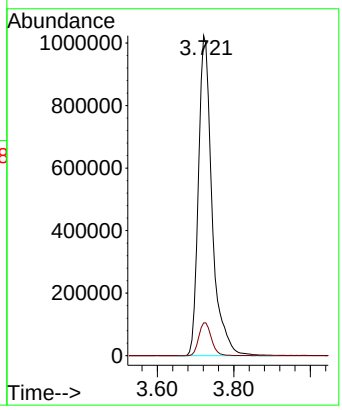
Tgt Ion: 43 Resp: 253132

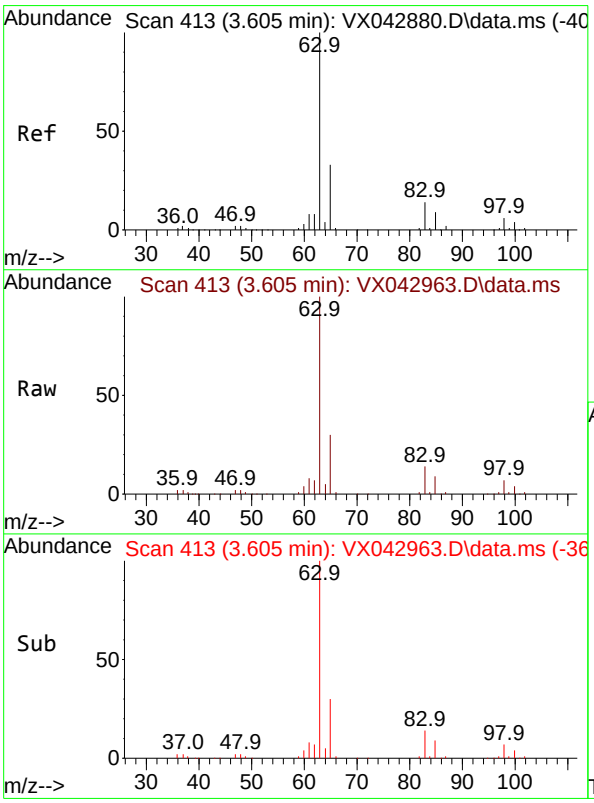
Ion	Ratio	Lower	Upper
43	100		
86	10.3	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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

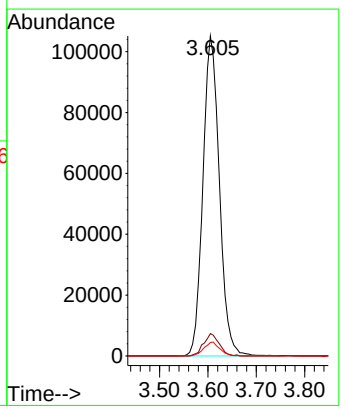


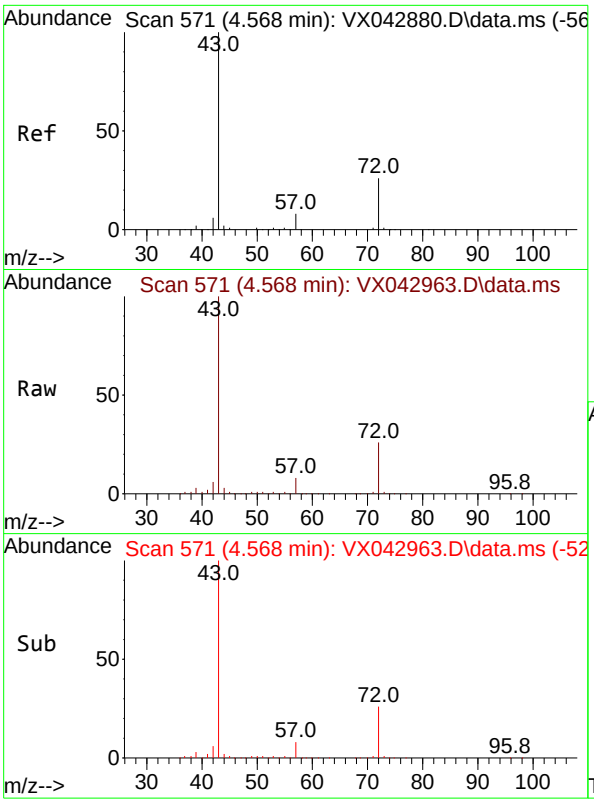


#24
1,1-Dichloroethane
Concen: 51.231 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 63 Resp: 248910

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.3	9.8
100	4.2	2.1	6.5

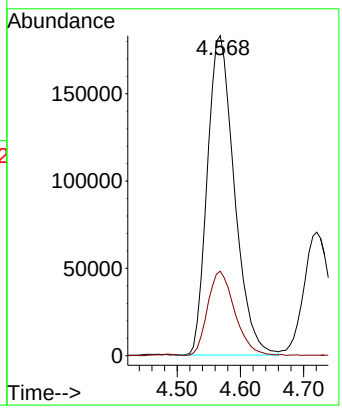




#25
2-Butanone
Concen: 251.832 ug/l
RT: 4.568 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 43 Resp: 54372

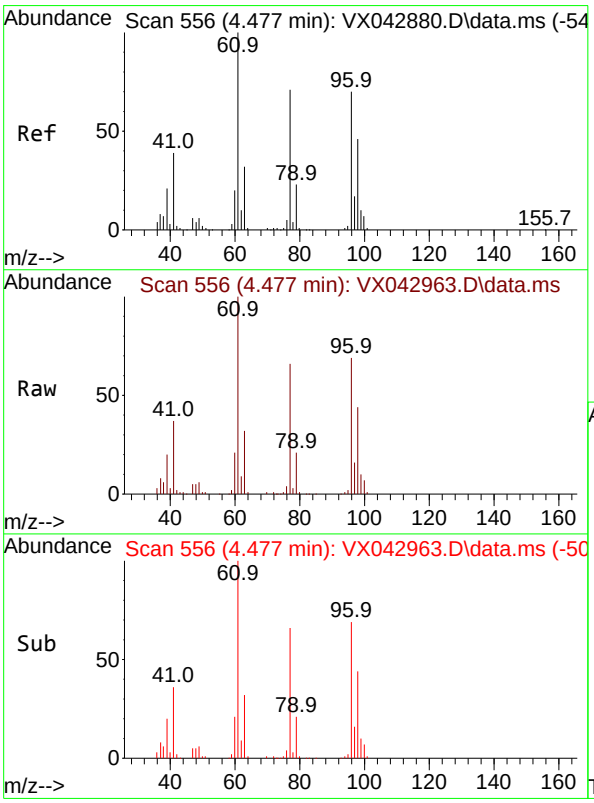
Ion	Ratio	Lower	Upper
43	100		
72	26.2	19.4	29.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

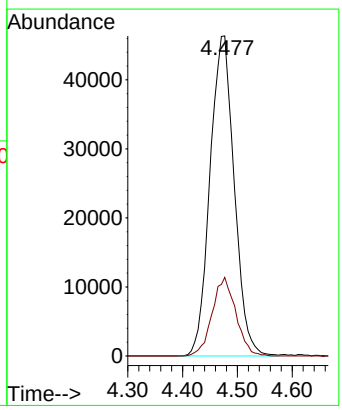
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

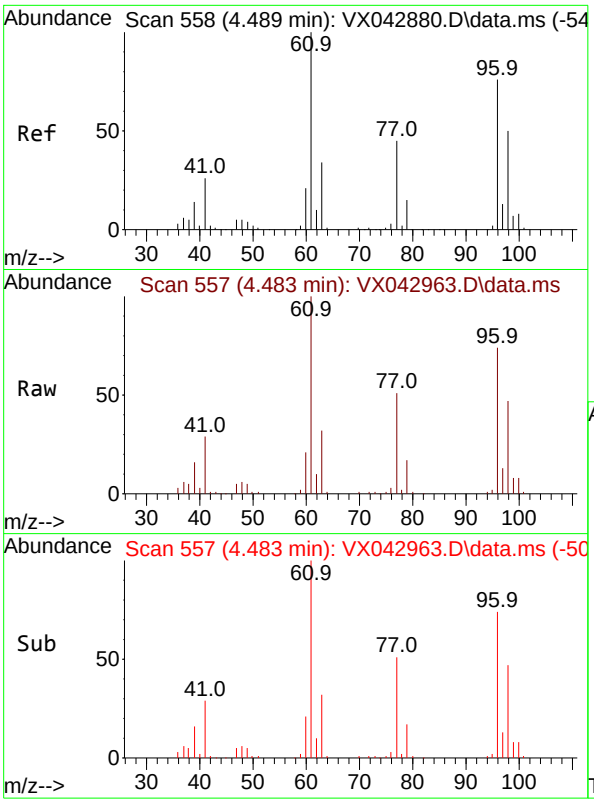


#26
2,2-Dichloropropane
Concen: 47.710 ug/l
RT: 4.477 min Scan# 556
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 77 Resp: 142503

Ion	Ratio	Lower	Upper
77	100		
97	24.0	10.8	32.3





#27
cis-1,2-Dichloroethene
Concen: 50.881 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

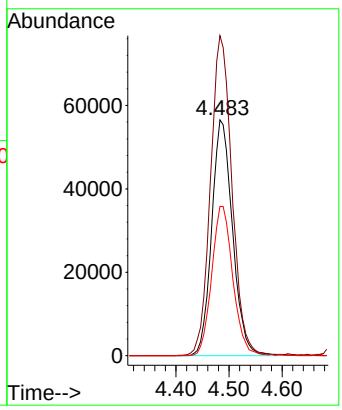
Tgt Ion: 96 Resp: 15450

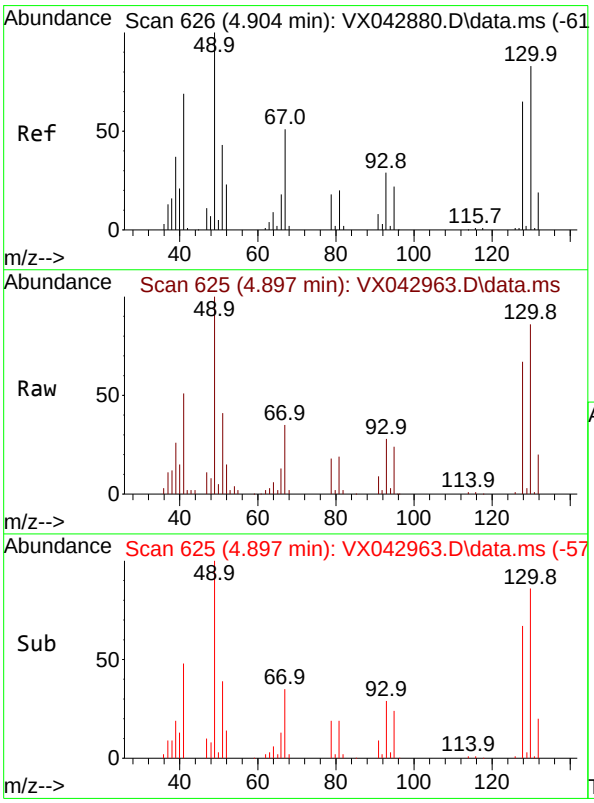
Ion	Ratio	Lower	Upper
96	100		
61	139.6	0.0	312.2
98	64.2	0.0	129.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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

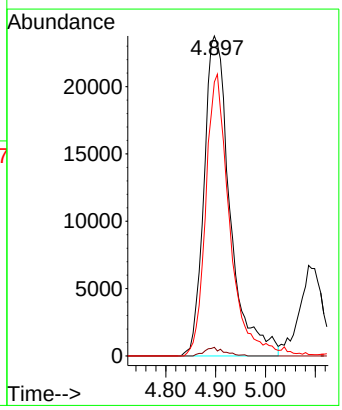


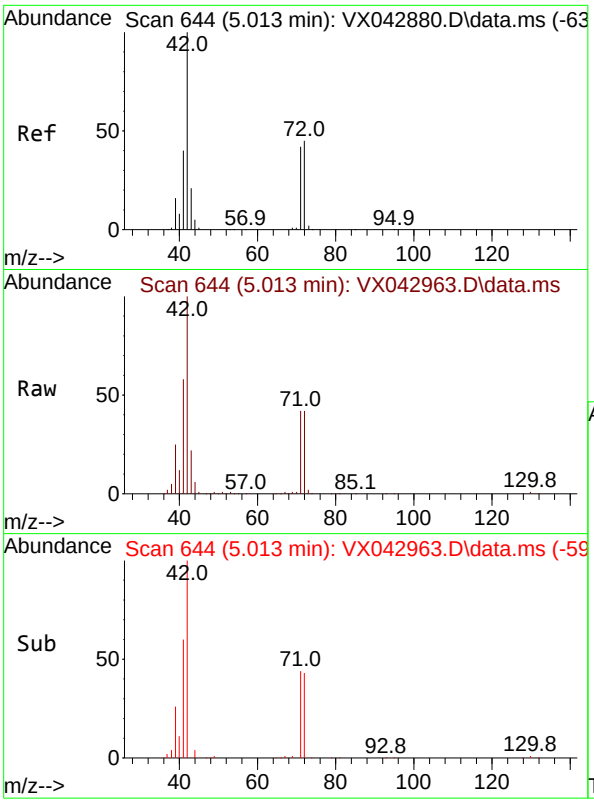


#28
Bromochloromethane
Concen: 46.191 ug/l
RT: 4.897 min Scan# 625
Delta R.T. -0.006 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 49 Resp: 86114

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	3.8
130	80.4	57.5	86.3





#29
Tetrahydrofuran
Concen: 246.162 ug/l
RT: 5.013 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

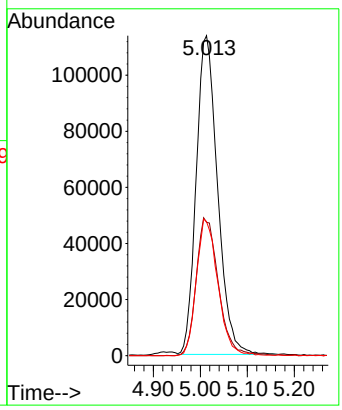
Tgt Ion: 42 Resp: 35914

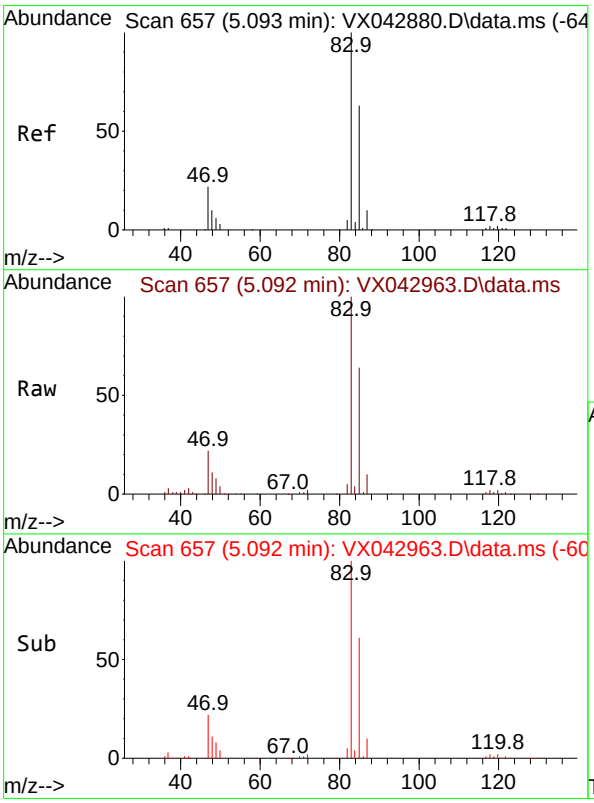
Ion	Ratio	Lower	Upper
42	100		
72	45.1	34.2	51.4
71	43.1	32.2	48.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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

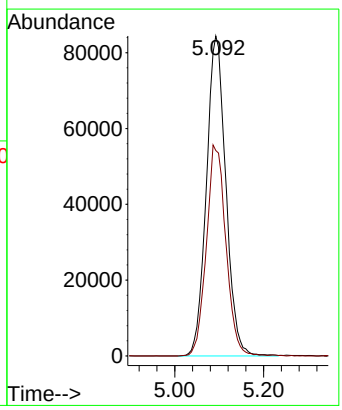


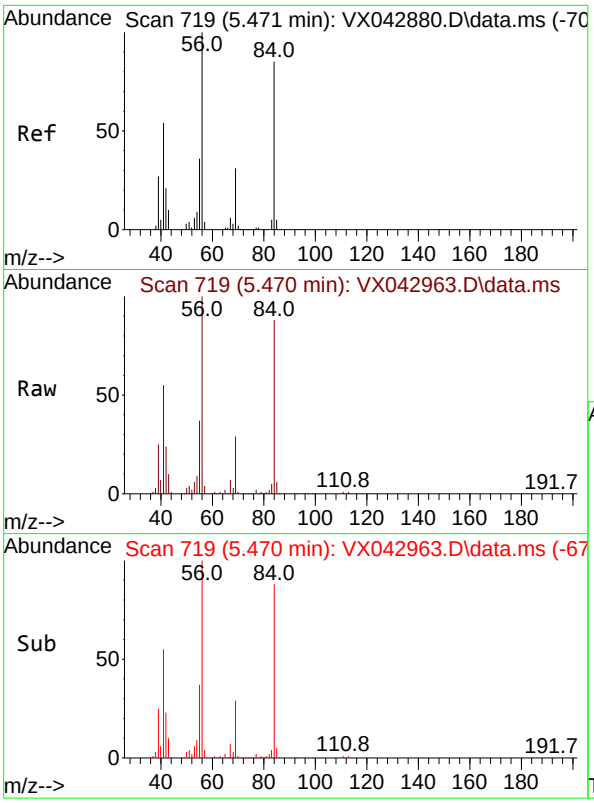


#30
Chloroform
Concen: 50.475 ug/l
RT: 5.092 min Scan# 657
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 83 Resp: 256730

Ion	Ratio	Lower	Upper
83	100		
85	64.2	50.3	75.5





#31
Cyclohexane
Concen: 50.711 ug/l
RT: 5.470 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

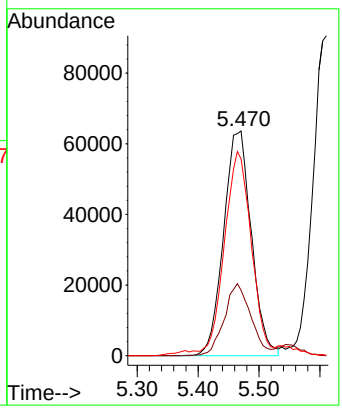
Tgt Ion: 56 Resp: 20112

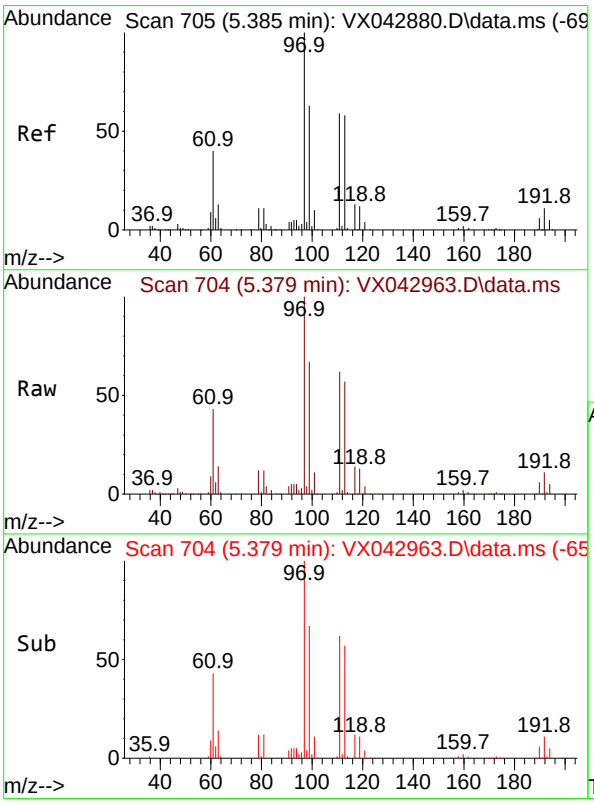
Ion	Ratio	Lower	Upper
56	100		
69	29.1	23.4	35.2
84	86.2	65.9	98.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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

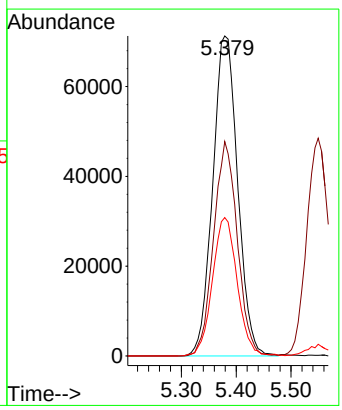


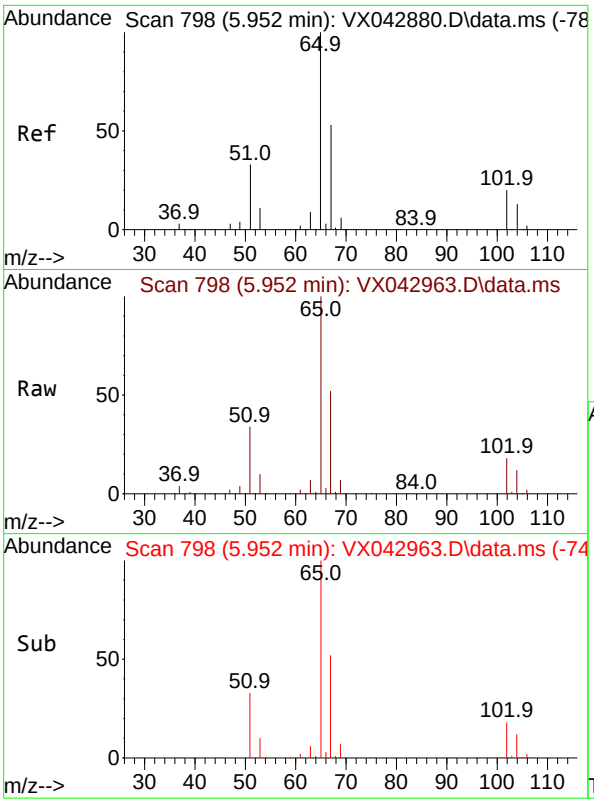


#32
1,1,1-Trichloroethane
Concen: 50.380 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 97 Resp: 225582

Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.1	76.7
61	43.0	36.4	54.6

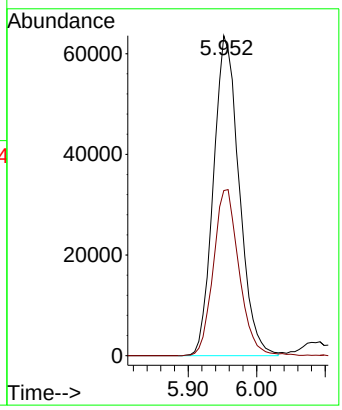




#33
1,2-Dichloroethane-d4
Concen: 52.222 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 65 Resp: 16553

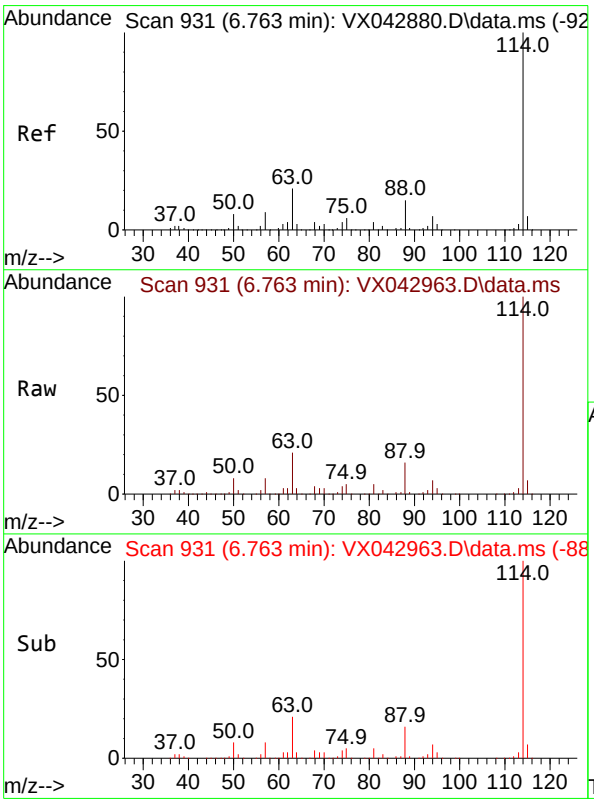
Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	100.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

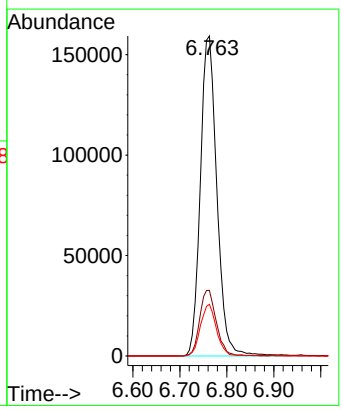
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

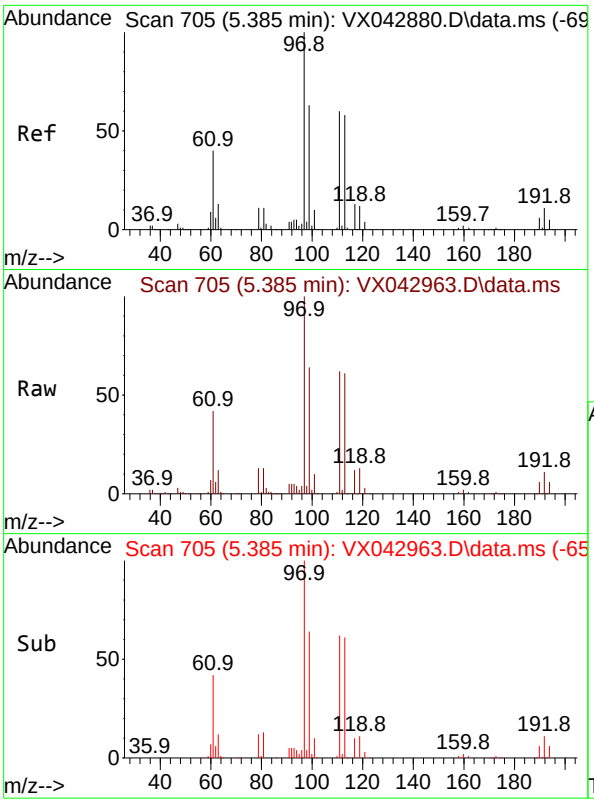


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion:114 Resp: 388392

Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	45.0
88	16.1	0.0	36.6

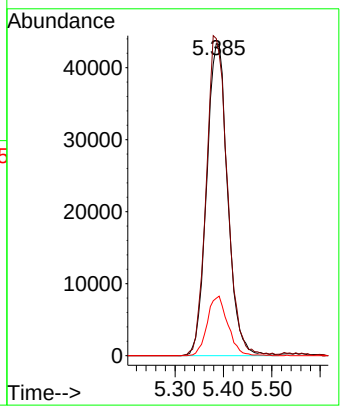




#35
Dibromofluoromethane
Concen: 51.503 ug/l
RT: 5.385 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion:113 Resp: 13079

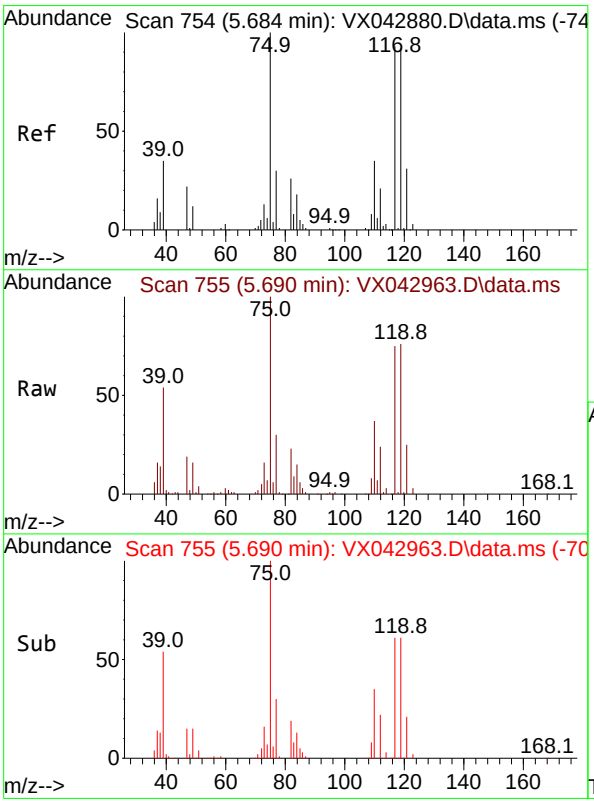
Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.9	124.3
192	18.7	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

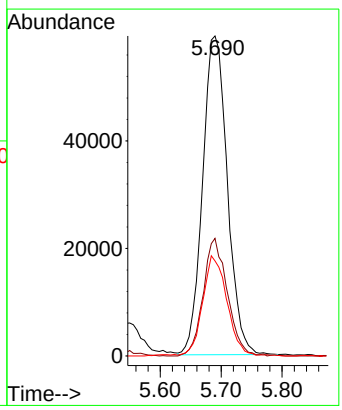
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

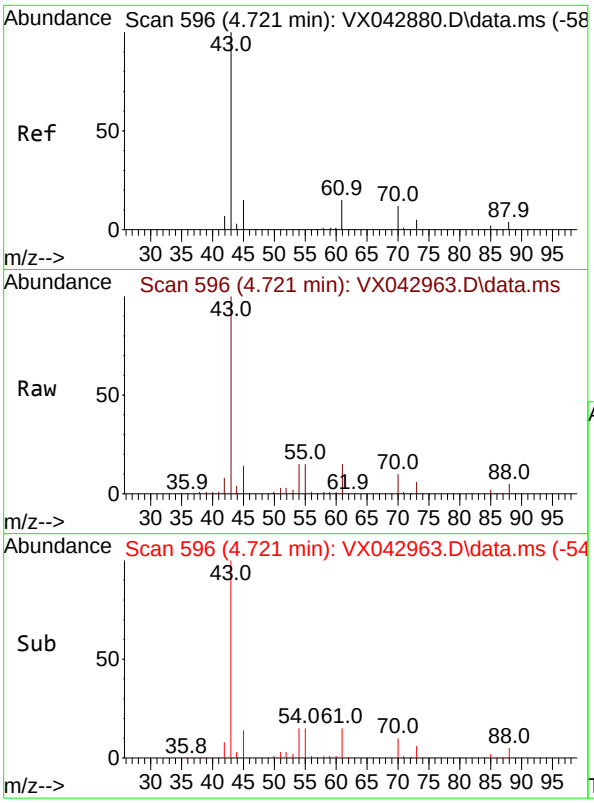


#36
1,1-Dichloropropene
Concen: 48.696 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.006 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 75 Resp: 167663

Ion	Ratio	Lower	Upper
75	100		
110	35.9	17.0	50.9
77	29.8	24.7	37.1

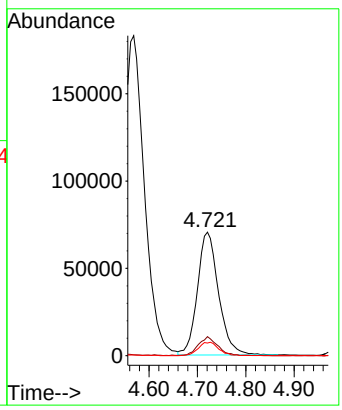




#37
Ethyl Acetate
Concen: 49.634 ug/l
RT: 4.721 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 43 Resp: 21381

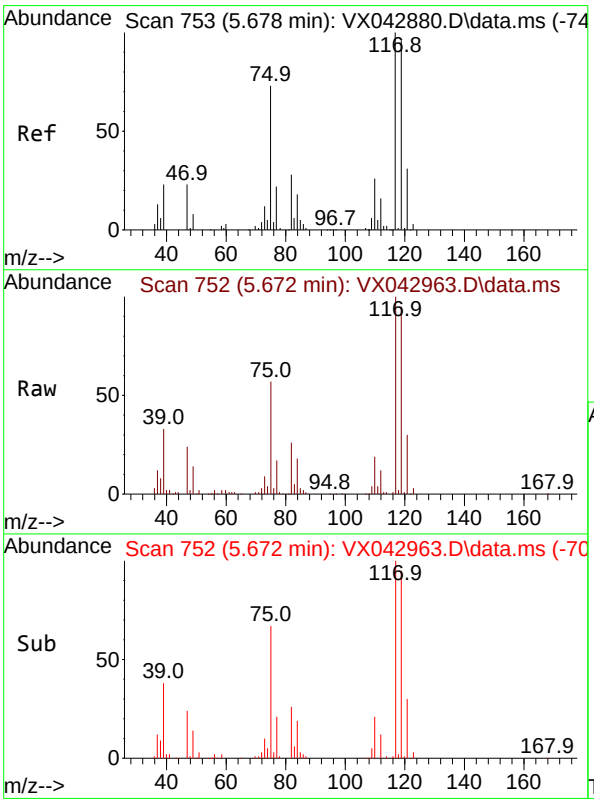
Ion	Ratio	Lower	Upper
43	100		
61	13.5	10.6	16.0
70	10.6	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

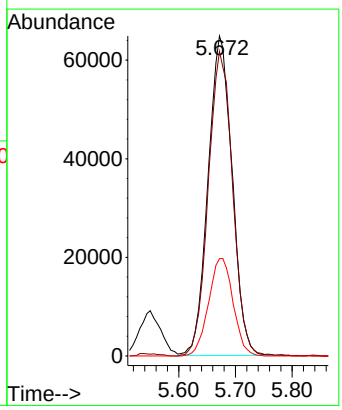
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

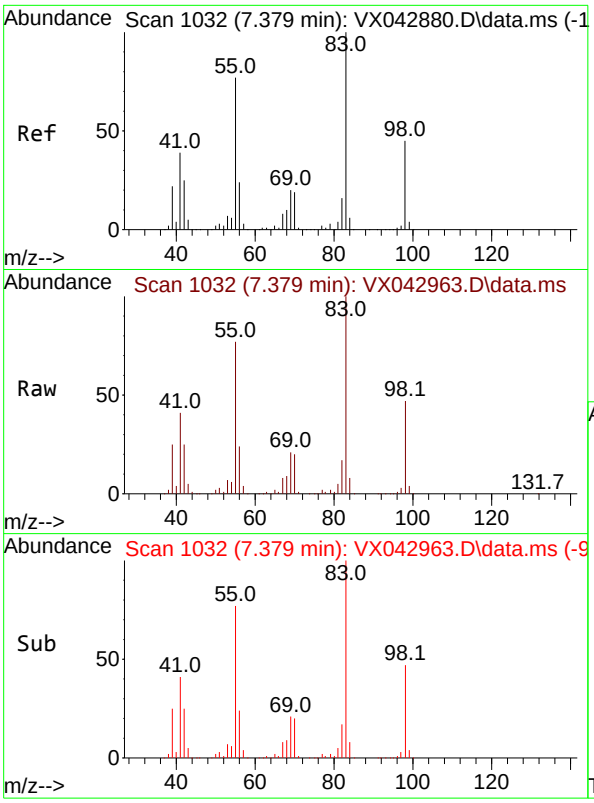


#38
Carbon Tetrachloride
Concen: 49.208 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.006 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion:117 Resp: 191253

Ion	Ratio	Lower	Upper
117	100		
119	95.4	78.2	117.2
121	30.5	24.4	36.6





#39
Methylcyclohexane
Concen: 50.855 ug/l
RT: 7.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

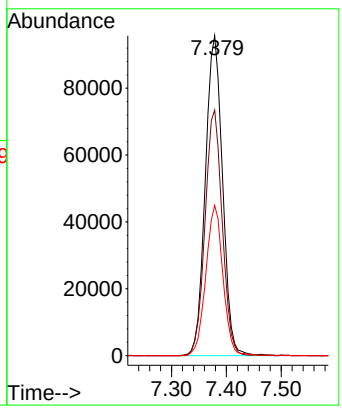
Tgt Ion: 83 Resp: 20814

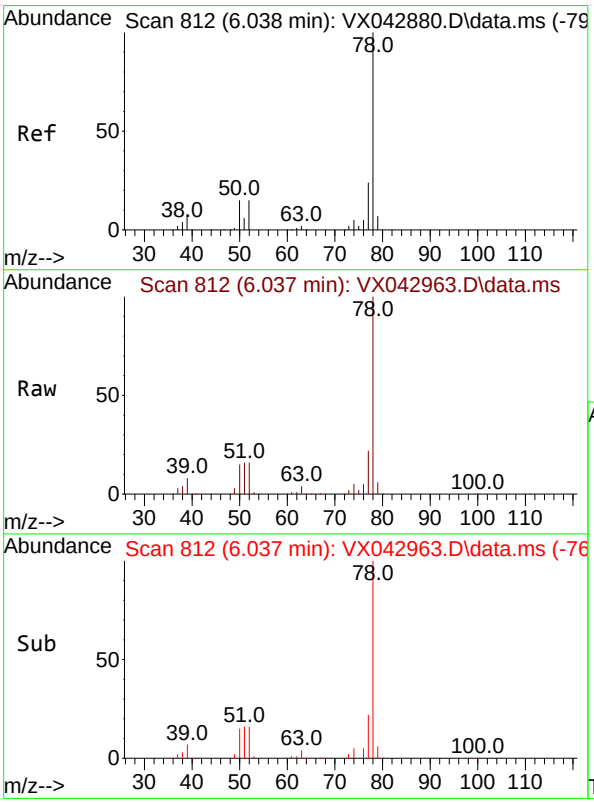
Ion	Ratio	Lower	Upper
83	100		
55	76.7	64.6	97.0
98	46.9	36.7	55.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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

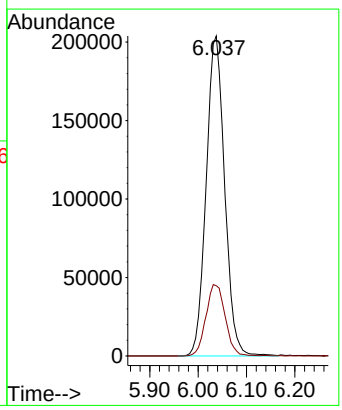


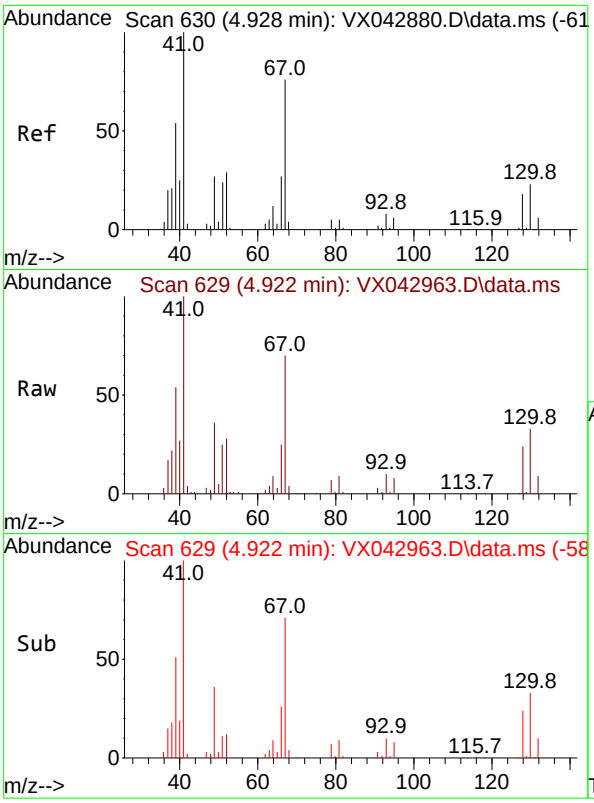


#40
Benzene
Concen: 50.585 ug/l
RT: 6.037 min Scan# 812
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 78 Resp: 540540

Ion	Ratio	Lower	Upper
78	100		
77	22.0	19.3	28.9

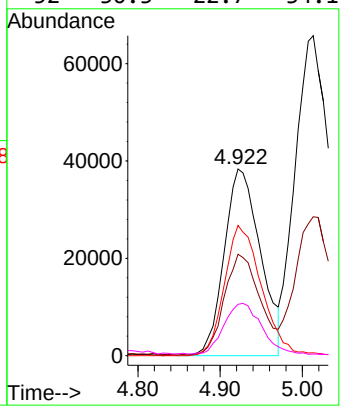




#41
Methacrylonitrile
Concen: 53.074 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 41 Resp: 11776

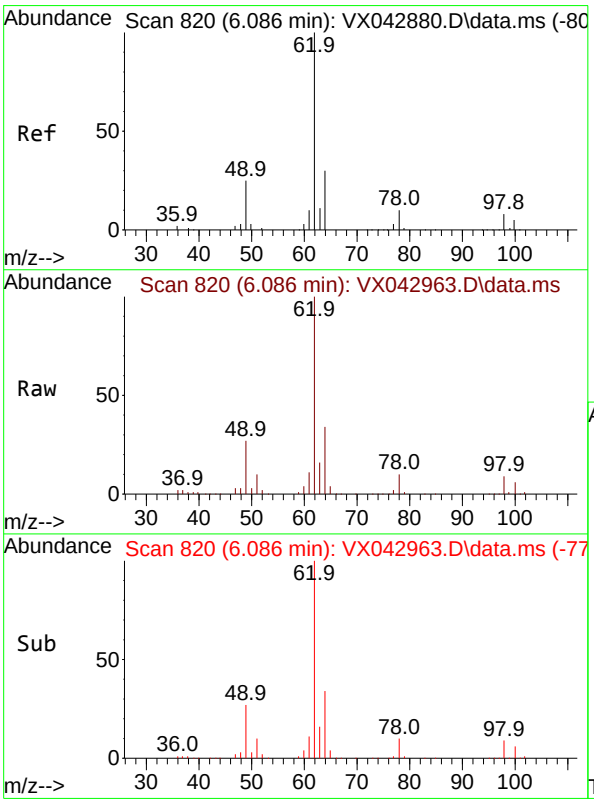
Ion	Ratio	Lower	Upper
41	100		
39	53.8	45.2	67.8
67	71.6	52.6	78.8
52	30.3	22.7	34.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

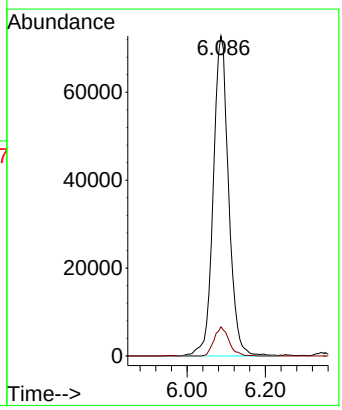
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

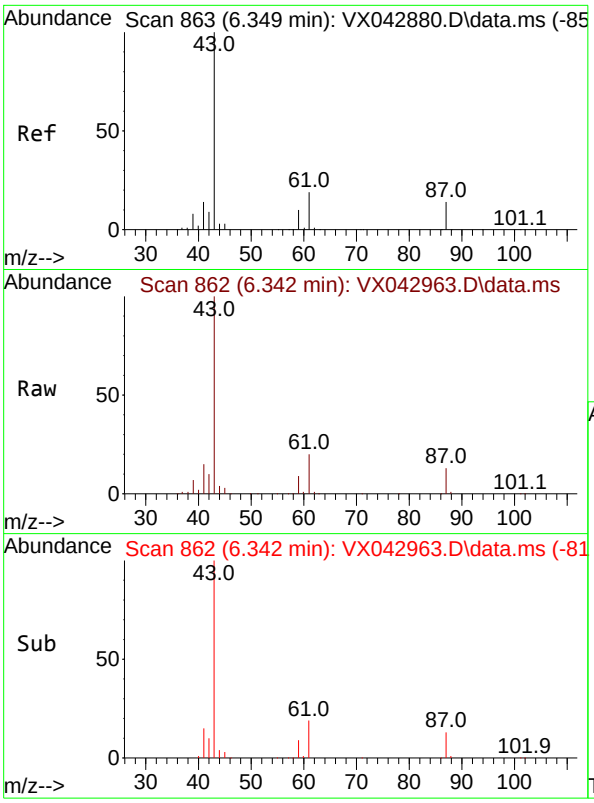


#42
1,2-Dichloroethane
Concen: 51.118 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 62 Resp: 198686

Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	16.0





#43
Isopropyl Acetate
Concen: 50.810 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

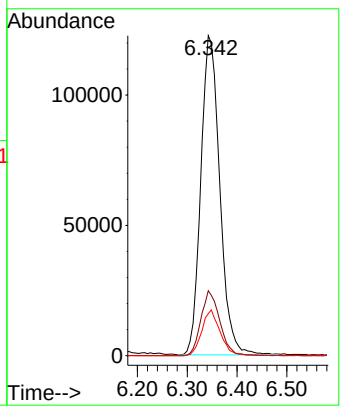
Tgt Ion: 43 Resp: 32370

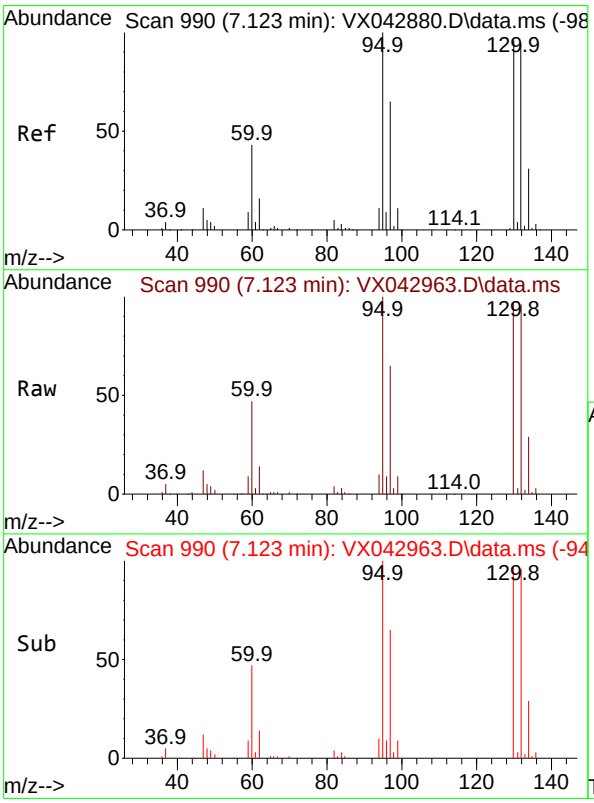
Ion	Ratio	Lower	Upper
43	100		
61	20.3	15.2	22.8
87	13.8	9.8	14.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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

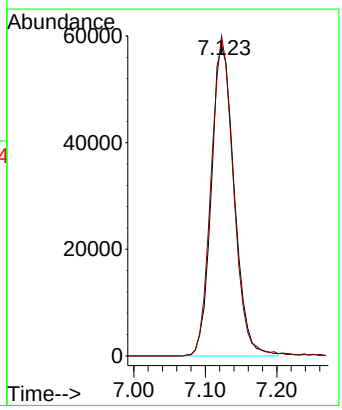


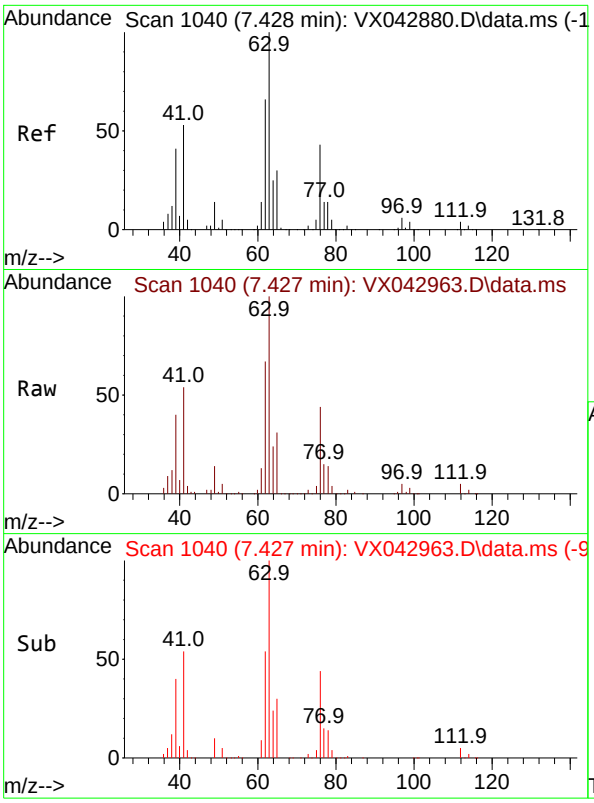


#44
Trichloroethene
Concen: 48.418 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion:130 Resp: 130004

Ion	Ratio	Lower	Upper
130	100		
95	103.1	0.0	204.4

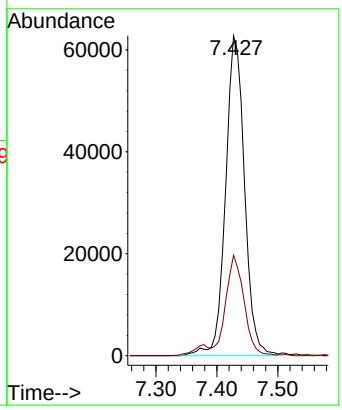




#45
1,2-Dichloropropane
Concen: 50.081 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 63 Resp: 13575

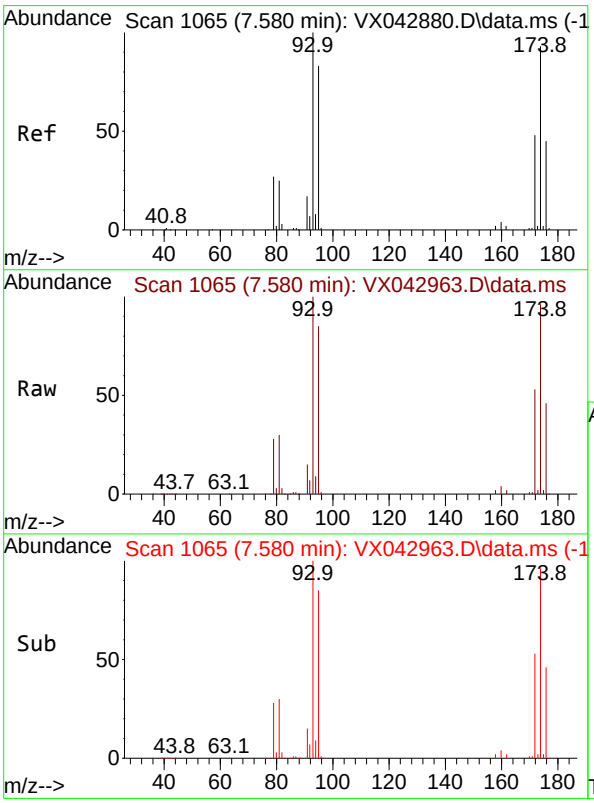
Ion	Ratio	Lower	Upper
63	100		
65	31.2	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

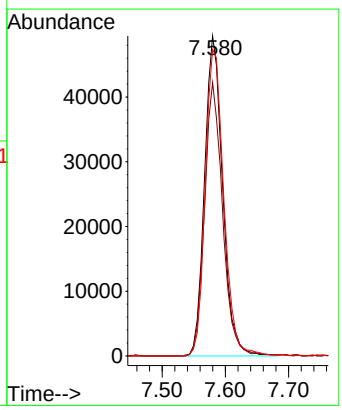
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

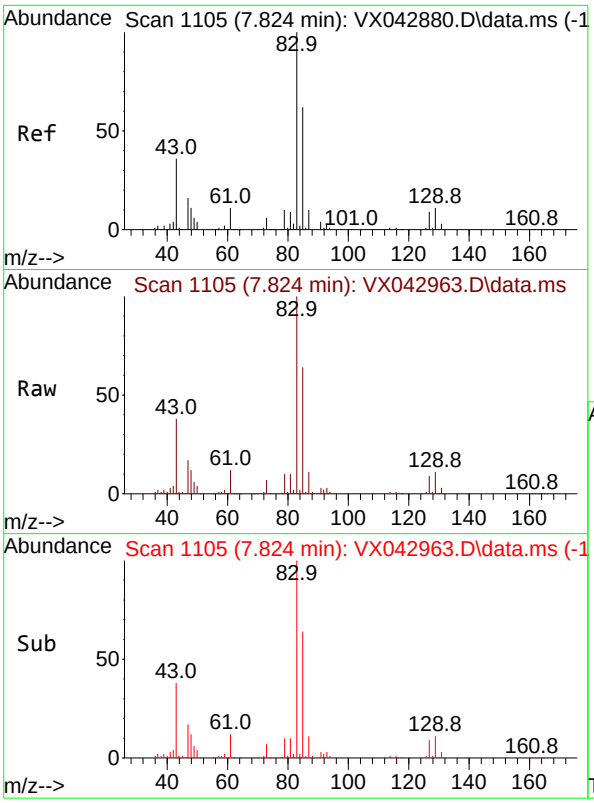


#46
Dibromomethane
Concen: 49.504 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 93 Resp: 98555

Ion	Ratio	Lower	Upper
93	100		
95	85.4	66.6	100.0
174	98.3	69.4	104.0

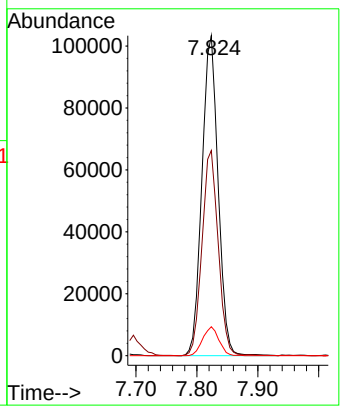




#47
Bromodichloromethane
Concen: 51.613 ug/l
RT: 7.824 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 83 Resp: 19088

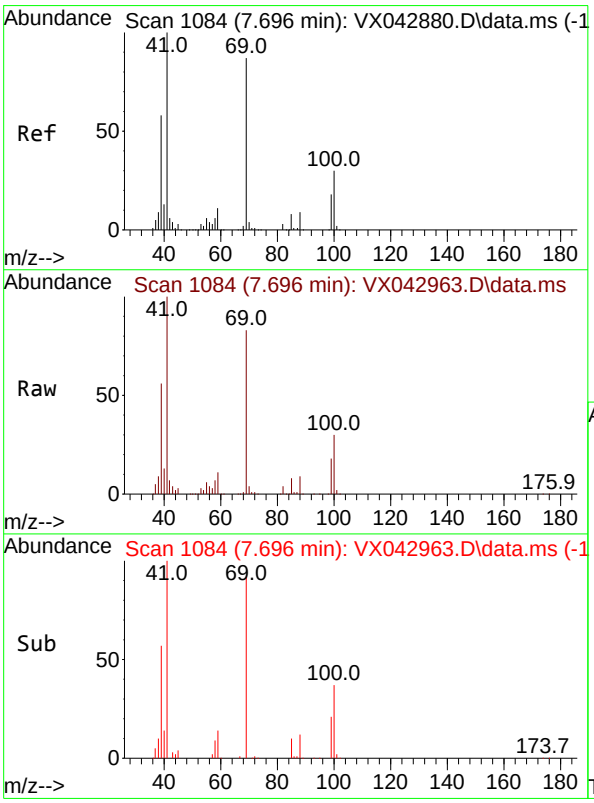
Ion	Ratio	Lower	Upper
83	100		
85	64.1	49.8	74.6
127	9.1	7.1	10.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

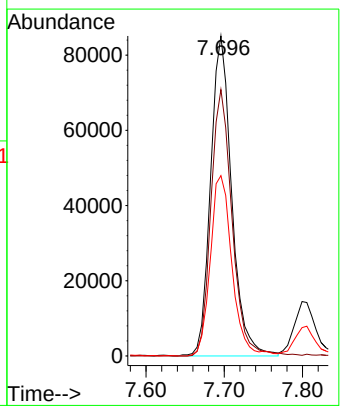
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

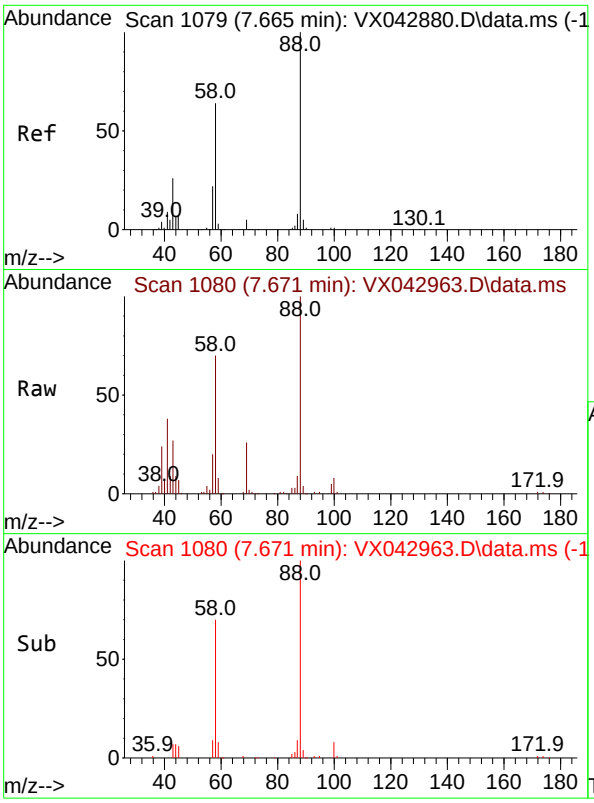


#48
Methyl methacrylate
Concen: 52.200 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 41 Resp: 159465

Ion	Ratio	Lower	Upper
41	100		
69	83.5	59.2	88.8
39	57.8	47.7	71.5





#49
1,4-Dioxane
Concen: 1053.240 ug/l
RT: 7.671 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

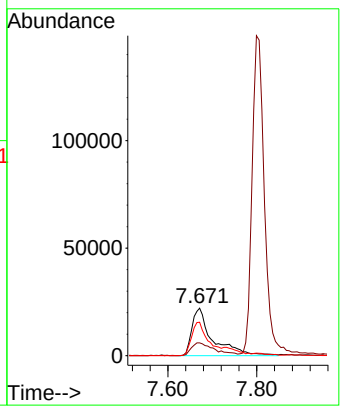
Tgt Ion: 88 Resp: 7142

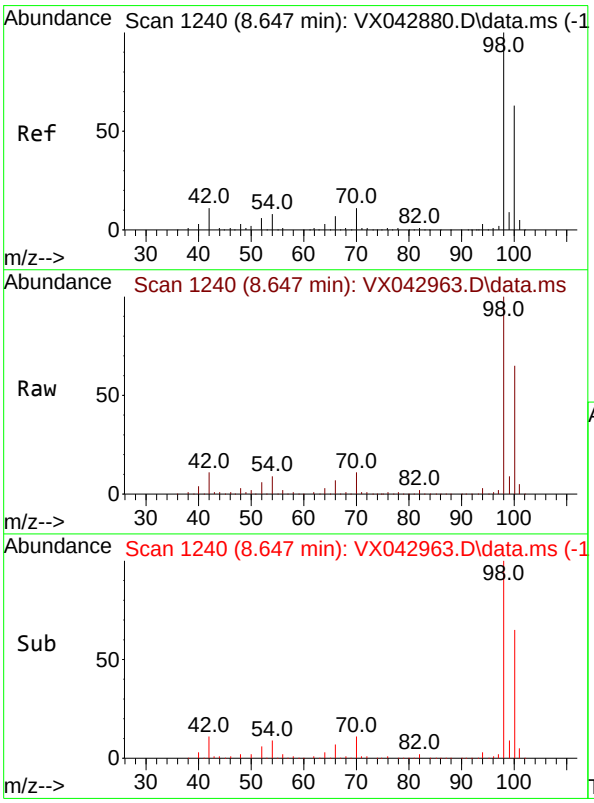
Ion	Ratio	Lower	Upper
88	100		
43	30.1	0.0	0.0#
58	55.8	60.1	90.1#

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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

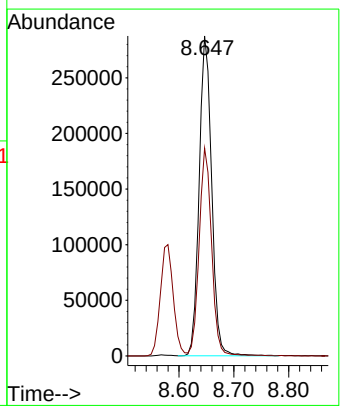


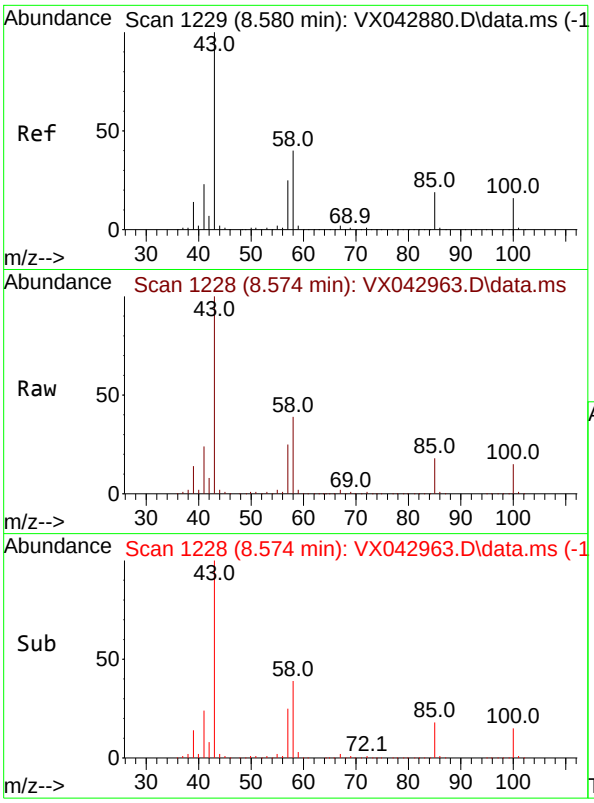


#50
Toluene-d8
Concen: 50.424 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 98 Resp: 454584

Ion	Ratio	Lower	Upper
98	100		
100	64.6	53.1	79.7

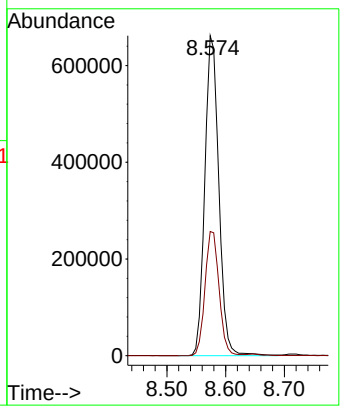




#51
4-Methyl-2-Pentanone
Concen: 256.900 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 43 Resp: 109631

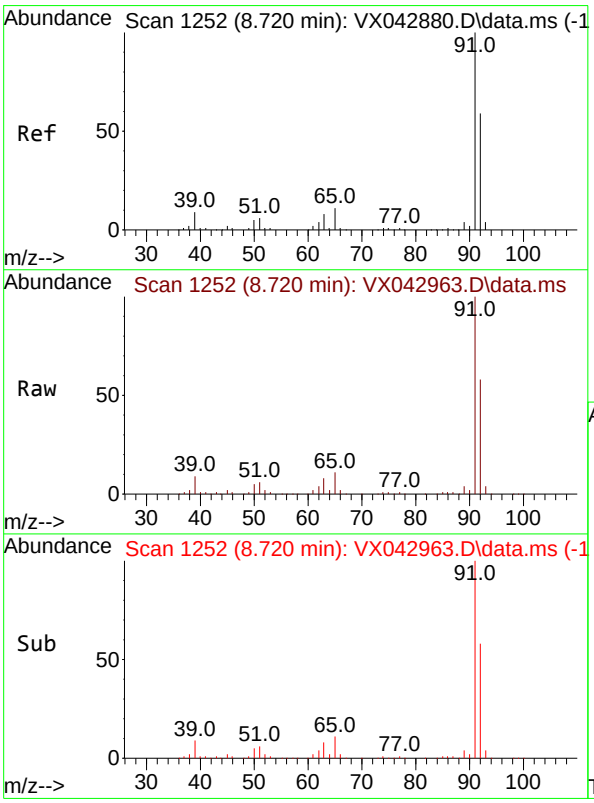
Ion	Ratio	Lower	Upper
43	100		
58	39.0	30.4	45.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

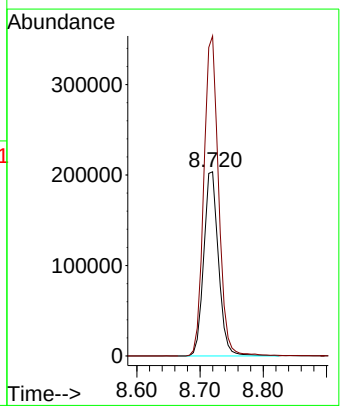
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

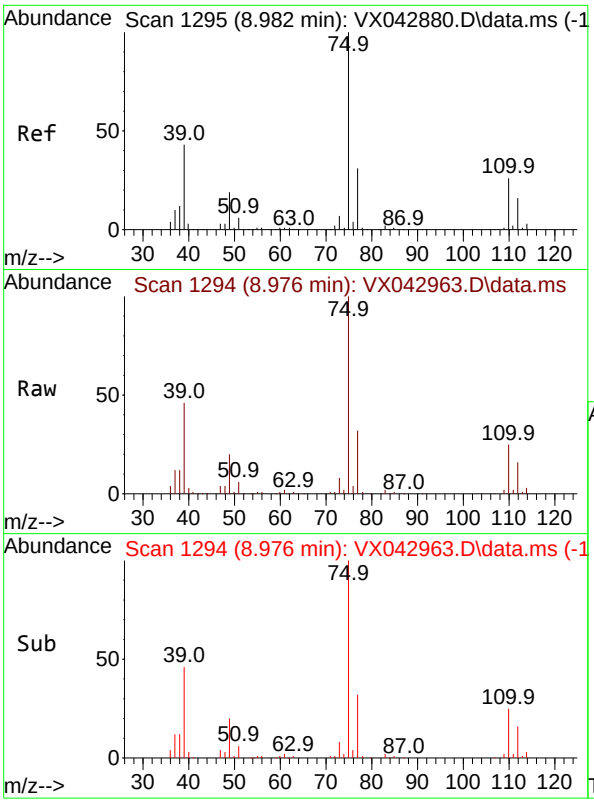


#52
Toluene
Concen: 50.970 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 92 Resp: 330378

Ion	Ratio	Lower	Upper
92	100		
91	174.1	134.2	201.2

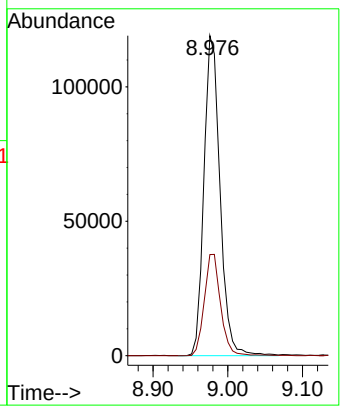




#53
t-1,3-Dichloropropene
Concen: 51.925 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 75 Resp: 17751

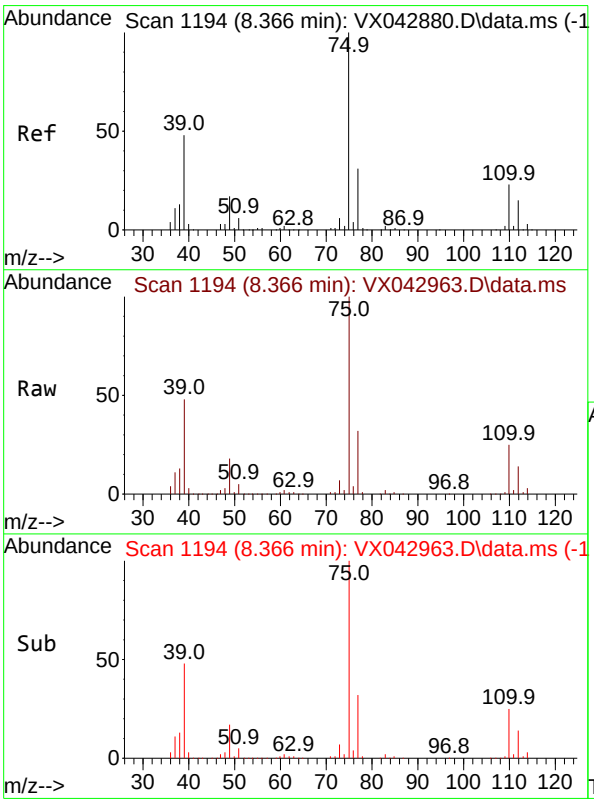
Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

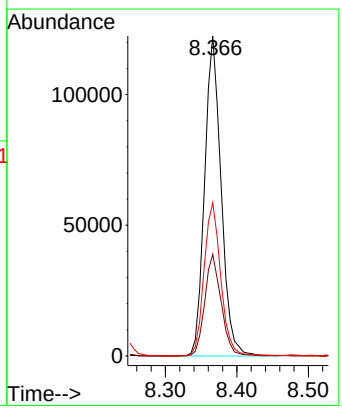
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

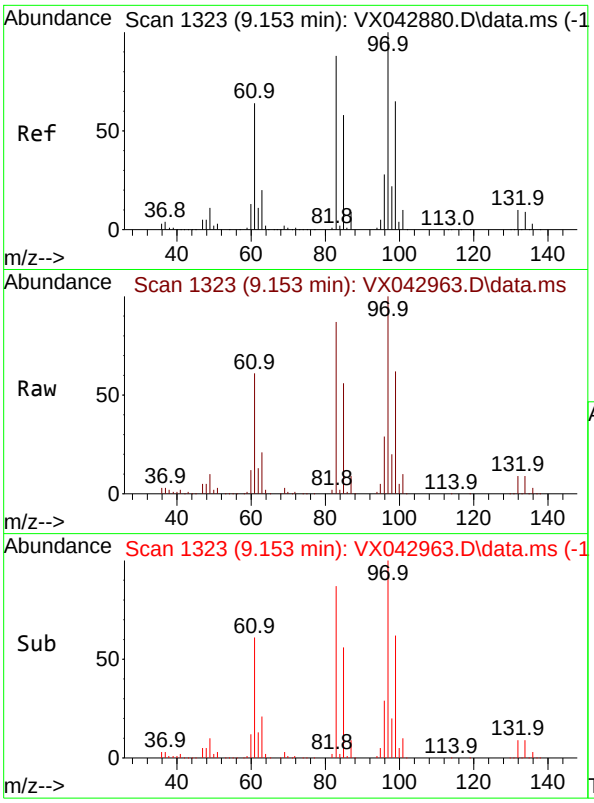


#54
cis-1,3-Dichloropropene
Concen: 51.987 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 75 Resp: 196284

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.3	37.9
39	47.9	46.7	70.1

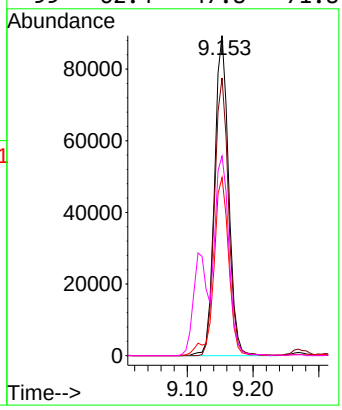




#55
1,1,2-Trichloroethane
Concen: 50.514 ug/l
RT: 9.153 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 97 Resp: 13310

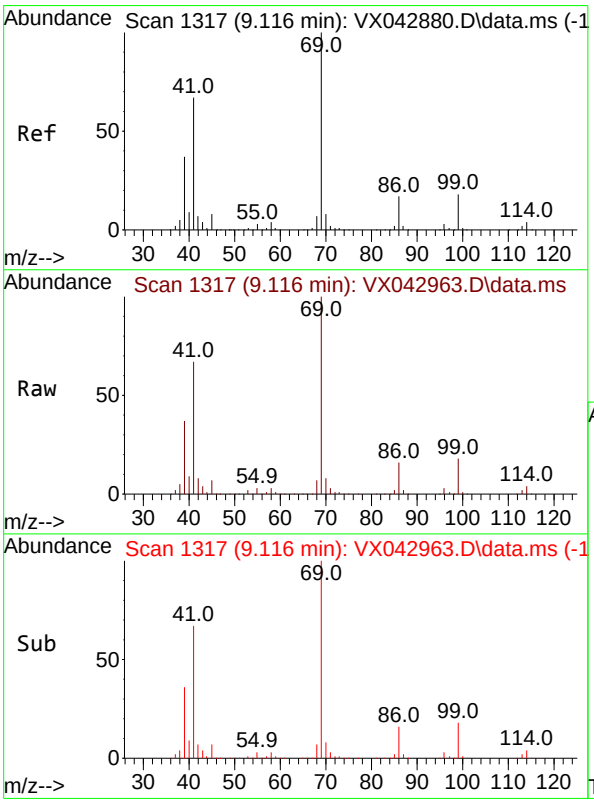
Ion	Ratio	Lower	Upper
97	100		
83	86.8	65.8	98.8
85	55.7	41.6	62.4
99	62.4	47.8	71.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

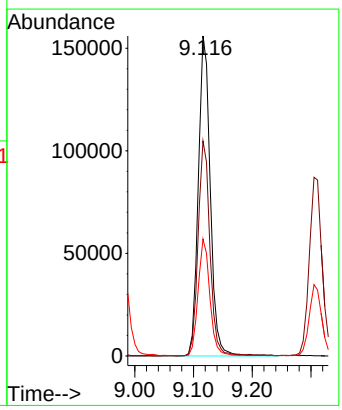
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

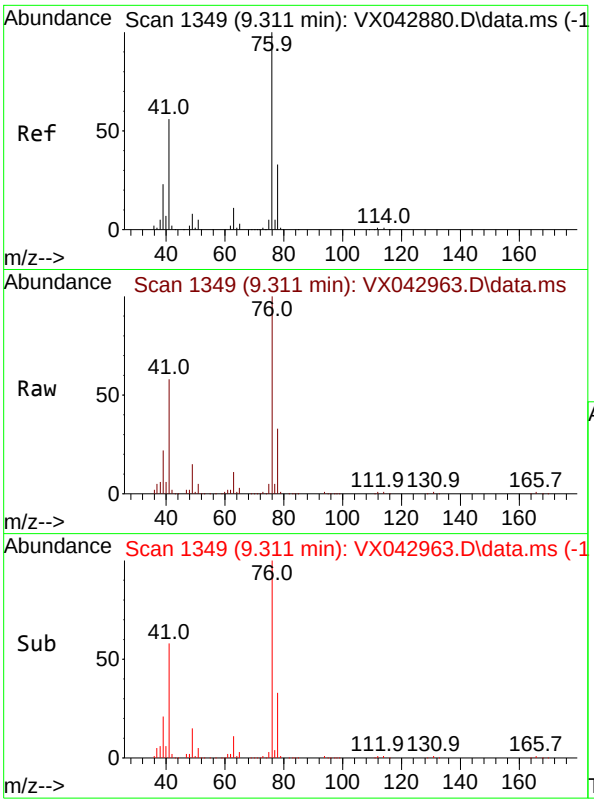


#56
Ethyl methacrylate
Concen: 52.139 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 69 Resp: 221080

Ion	Ratio	Lower	Upper
69	100		
41	66.0	56.8	85.2
39	35.5	32.0	48.0





#57
1,3-Dichloropropane
Concen: 51.309 ug/l
RT: 9.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

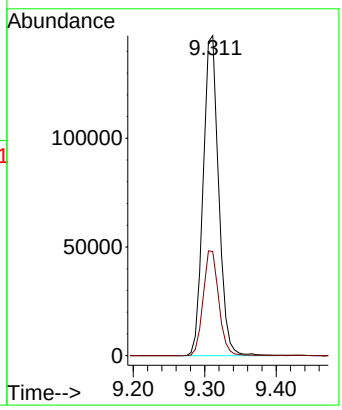
Tgt Ion: 76 Resp: 22148

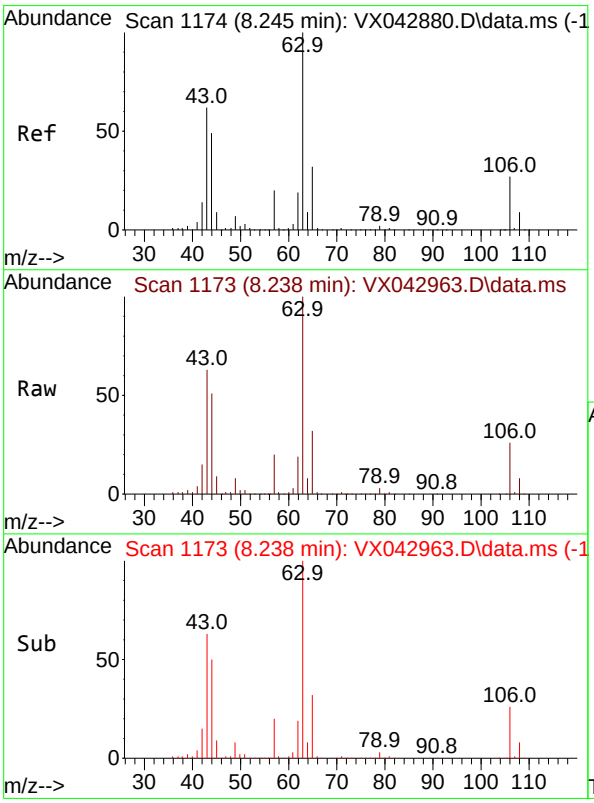
Ion	Ratio	Lower	Upper
76	100		
78	33.2	26.1	39.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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

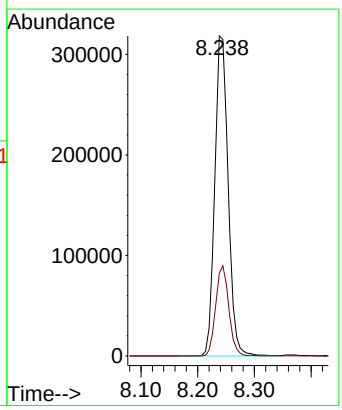


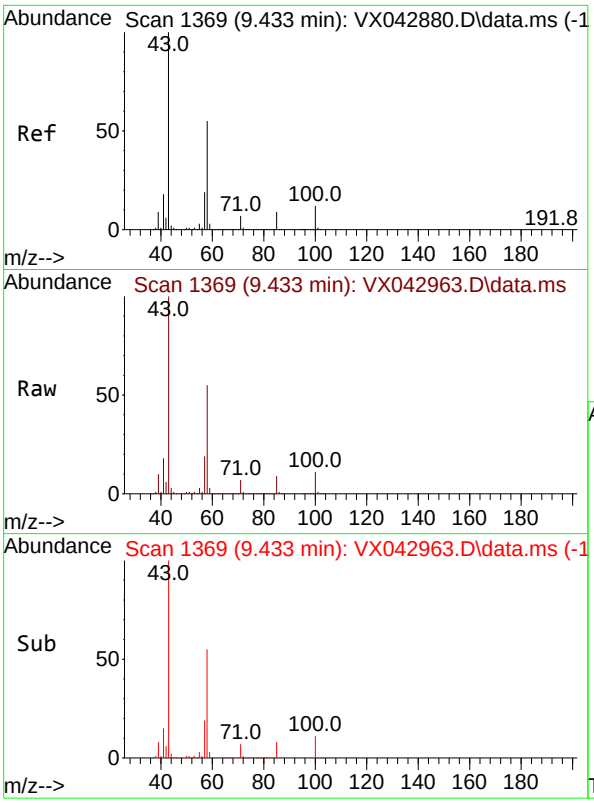


#58
2-Chloroethyl Vinyl ether
Concen: 260.423 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 63 Resp: 520447

Ion	Ratio	Lower	Upper
63	100		
106	27.7	22.5	33.7





#59
2-Hexanone
Concen: 257.430 ug/l
RT: 9.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

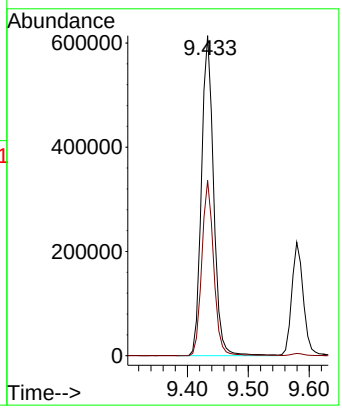
Tgt Ion: 43 Resp: 85125

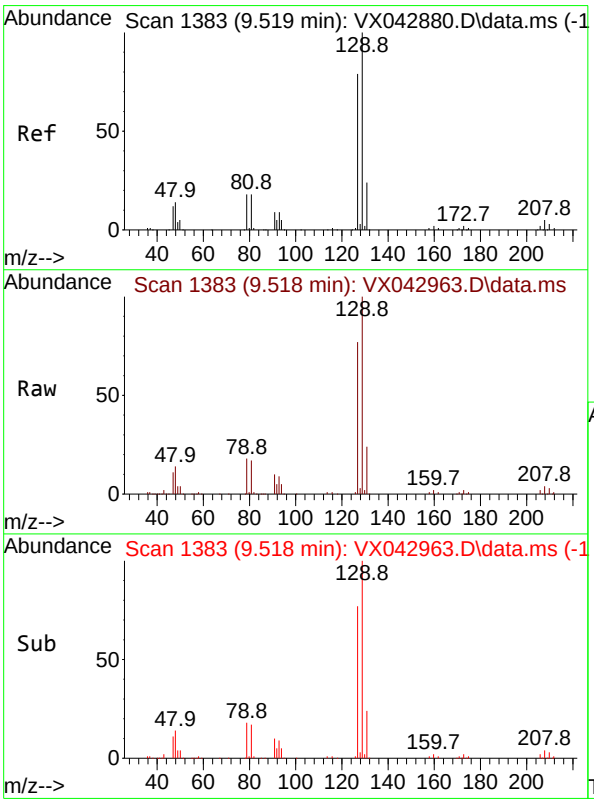
Ion	Ratio	Lower	Upper
43	100		
58	53.7	26.2	78.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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

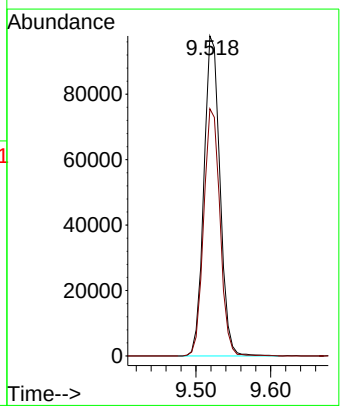


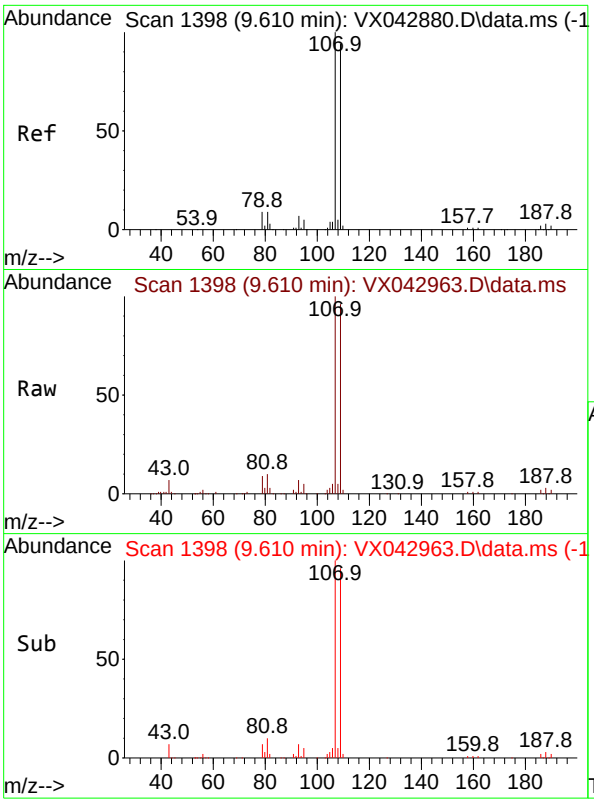


#60
Dibromochloromethane
Concen: 50.426 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion:129 Resp: 145965

Ion	Ratio	Lower	Upper
129	100		
127	78.3	38.8	116.4

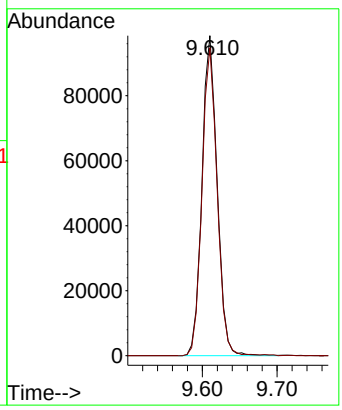




#61
1,2-Dibromoethane
Concen: 49.874 ug/l
RT: 9.610 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion:107 Resp: 13885

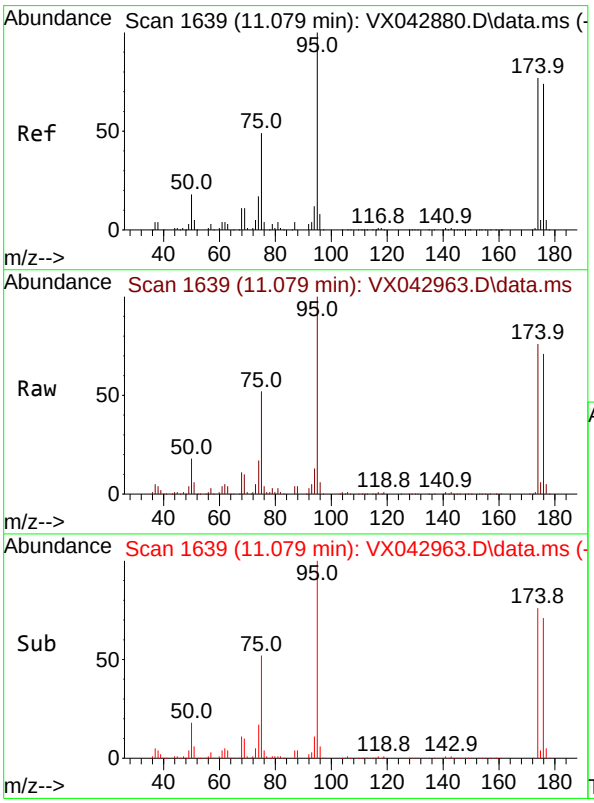
Ion	Ratio	Lower	Upper
107	100		
109	95.8	75.2	112.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

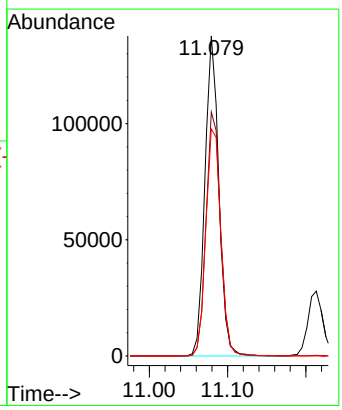
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

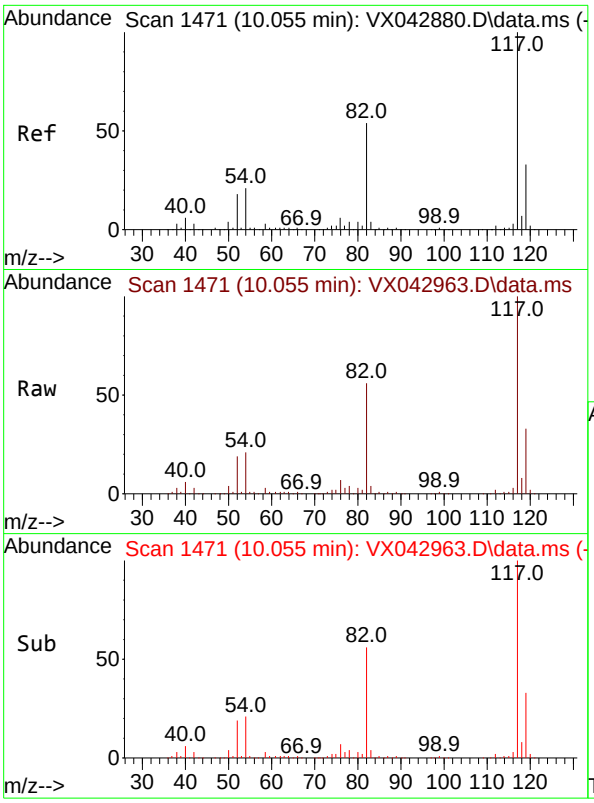


#62
4-Bromofluorobenzene
Concen: 52.183 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 95 Resp: 169054

Ion	Ratio	Lower	Upper
95	100		
174	79.2	0.0	135.6
176	76.7	0.0	131.0





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

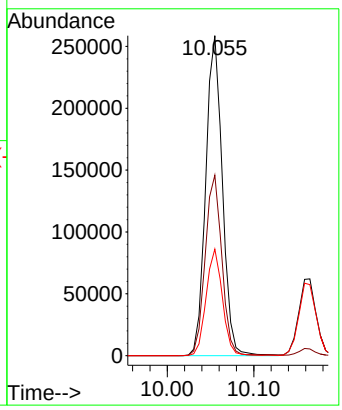
Tgt Ion:117 Resp: 34498

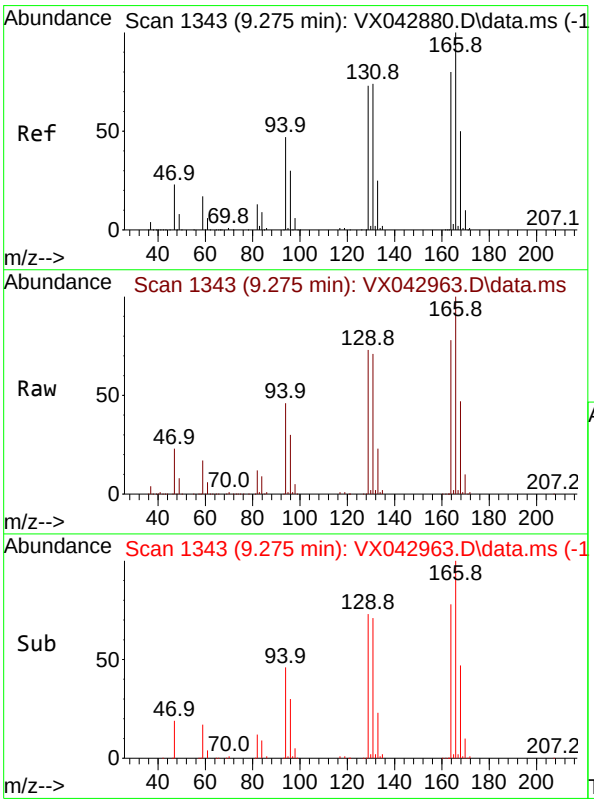
Ion	Ratio	Lower	Upper
117	100		
82	56.4	46.2	69.4
119	33.3	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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

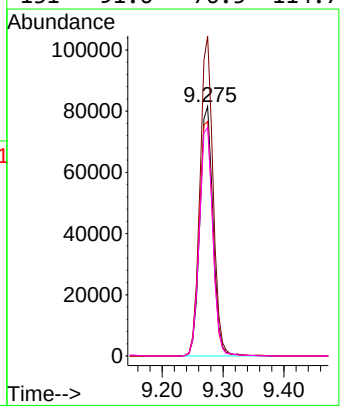


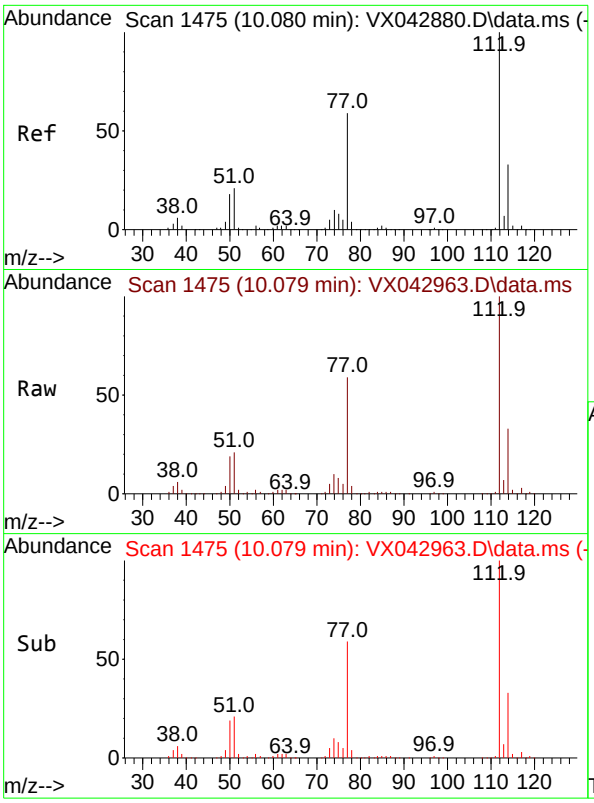


#64
Tetrachloroethene
Concen: 50.990 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion:164 Resp: 122311

Ion	Ratio	Lower	Upper
164	100		
166	128.3	102.7	154.1
129	94.0	80.4	120.6
131	91.6	76.5	114.7





#65
Chlorobenzene
Concen: 49.645 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

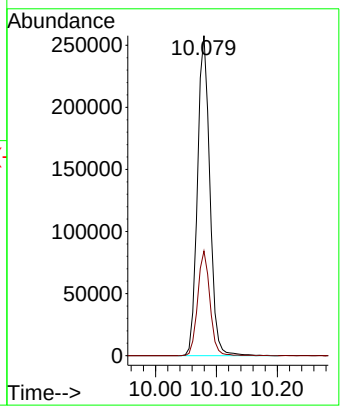
Tgt Ion:112 Resp: 36343

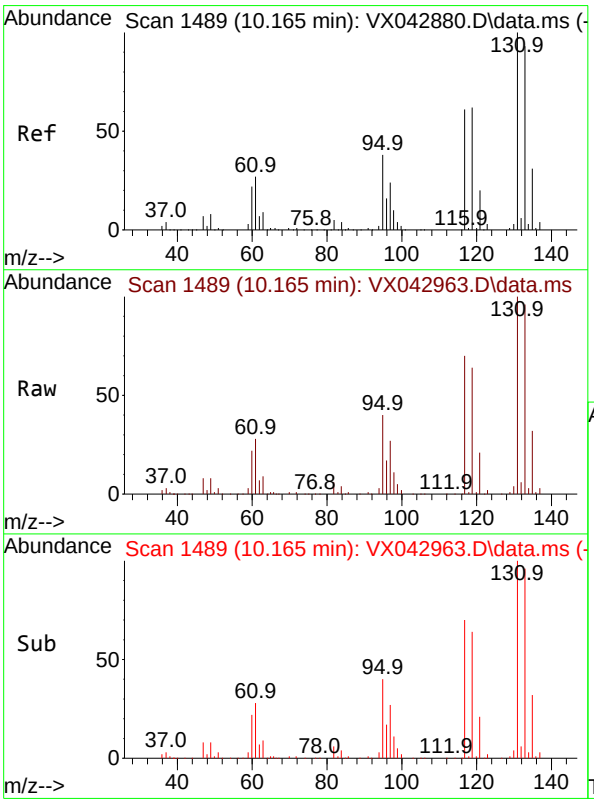
Ion	Ratio	Lower	Upper
112	100		
114	32.7	25.7	38.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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

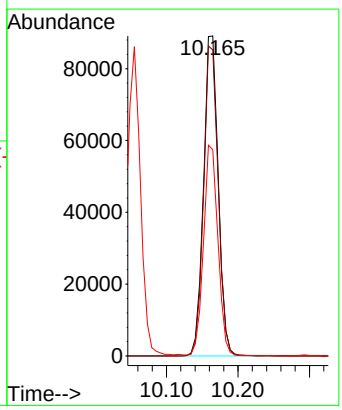


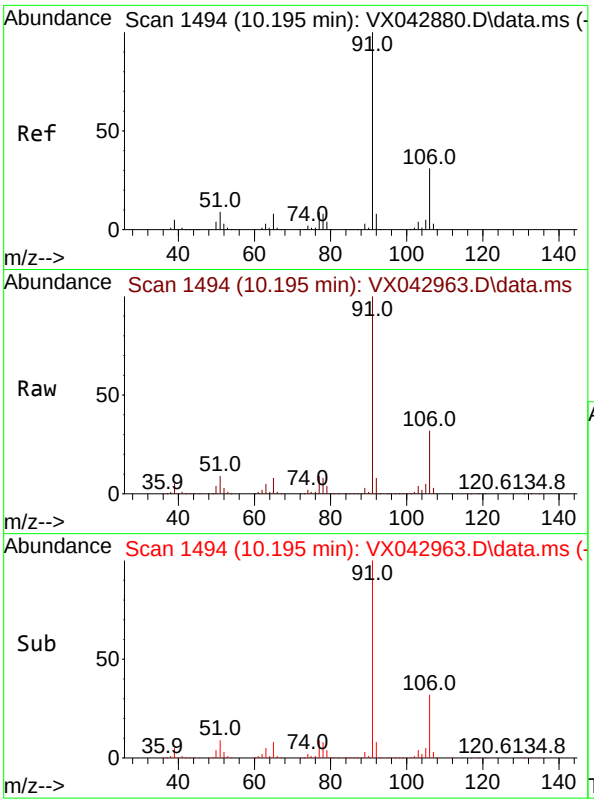


#66
1,1,1,2-Tetrachloroethane
Concen: 50.542 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion:131 Resp: 127582

Ion	Ratio	Lower	Upper
131	100		
133	95.5	47.1	141.4
119	64.5	32.2	96.6





#67
Ethyl Benzene
Concen: 50.967 ug/l
RT: 10.195 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

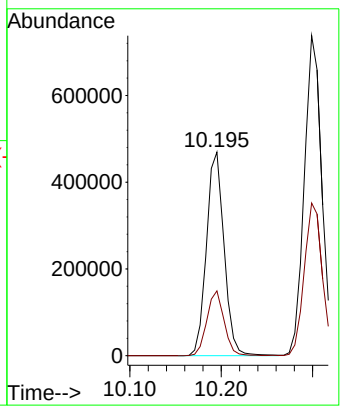
Tgt Ion: 91 Resp: 62760

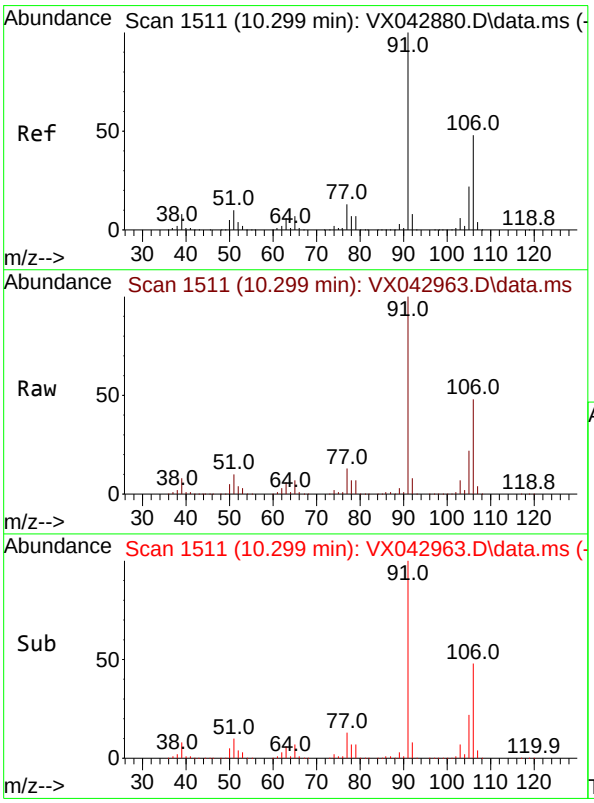
Ion	Ratio	Lower	Upper
91	100		
106	31.9	24.9	37.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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

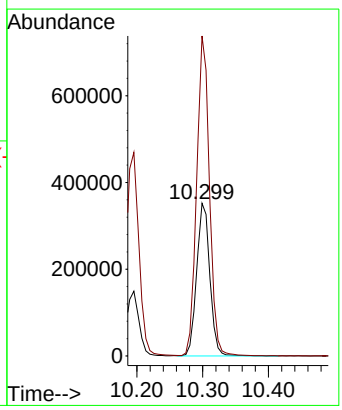


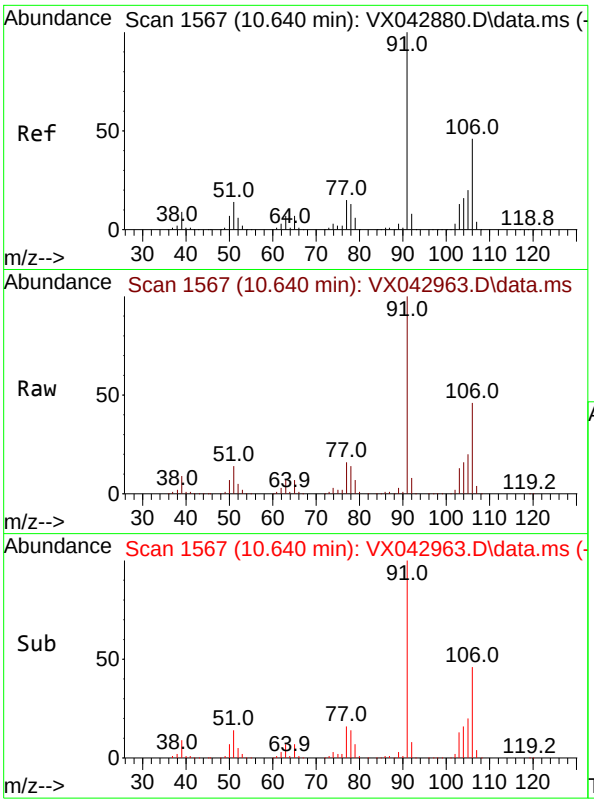


#68
m/p-Xylenes
Concen: 103.541 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion:106 Resp: 486741

Ion	Ratio	Lower	Upper
106	100		
91	203.6	165.5	248.3

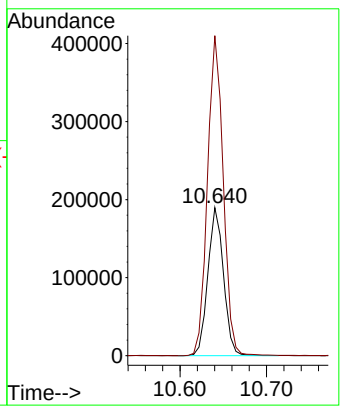




#69
o-Xylene
Concen: 50.519 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion:106 Resp: 23790

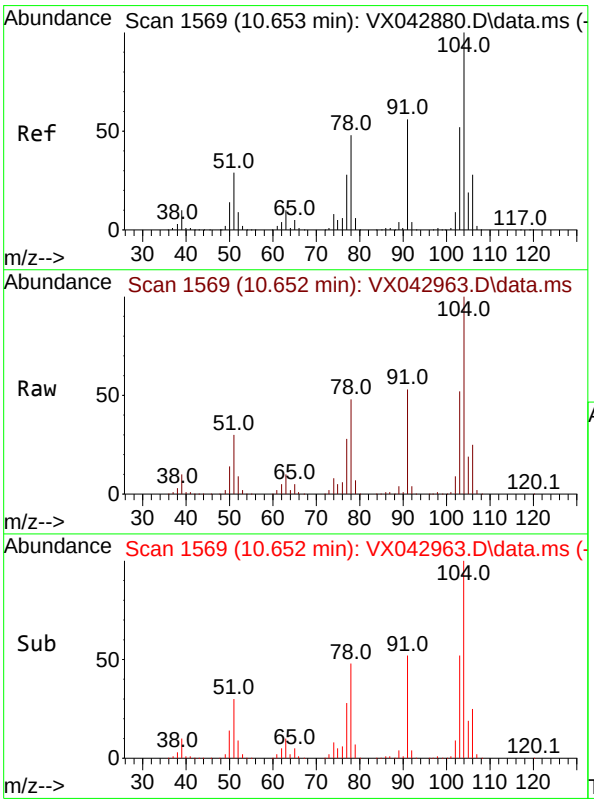
Ion	Ratio	Lower	Upper
106	100		
91	218.0	108.9	326.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

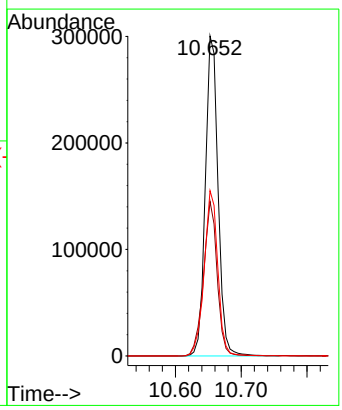
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

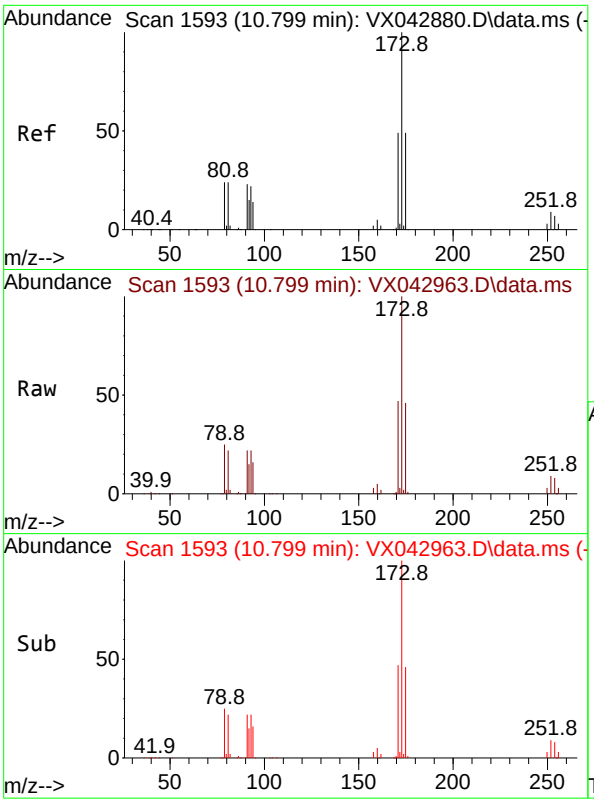


#70
Styrene
Concen: 53.465 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion:104 Resp: 404874

Ion	Ratio	Lower	Upper
104	100		
78	51.8	43.6	65.4
103	55.5	43.6	65.4





#71
Bromoform
Concen: 49.661 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

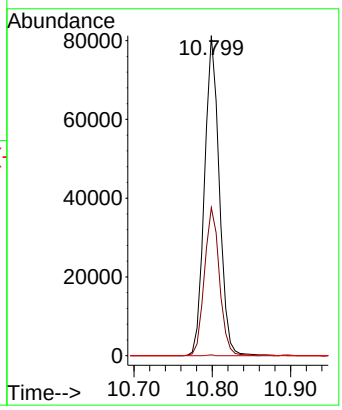
Tgt Ion:173 Resp: 10620

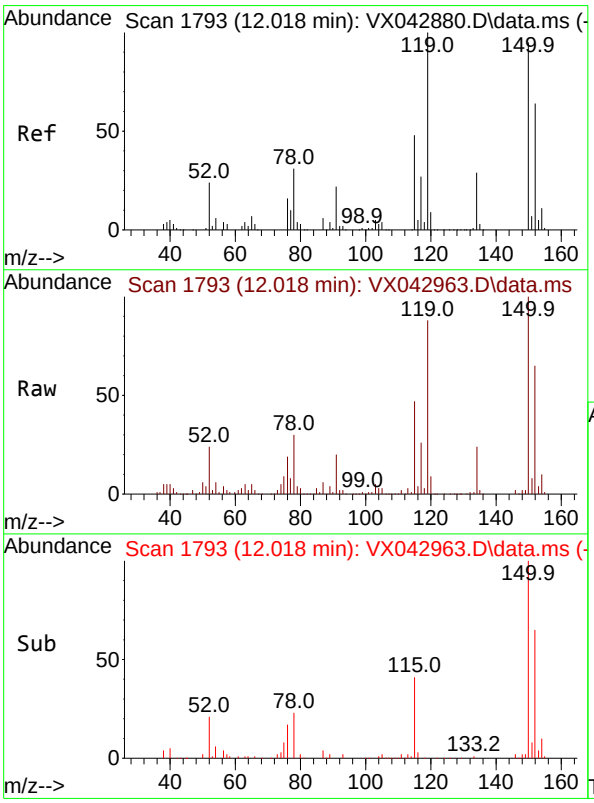
Ion	Ratio	Lower	Upper
173	100		
175	46.9	24.1	72.4
254	0.1	0.0	0.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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

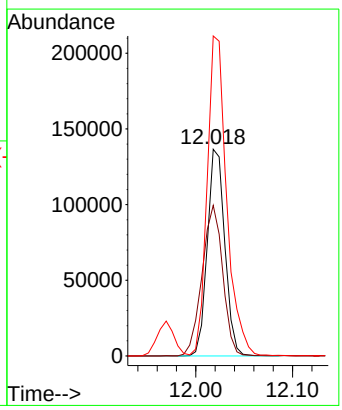


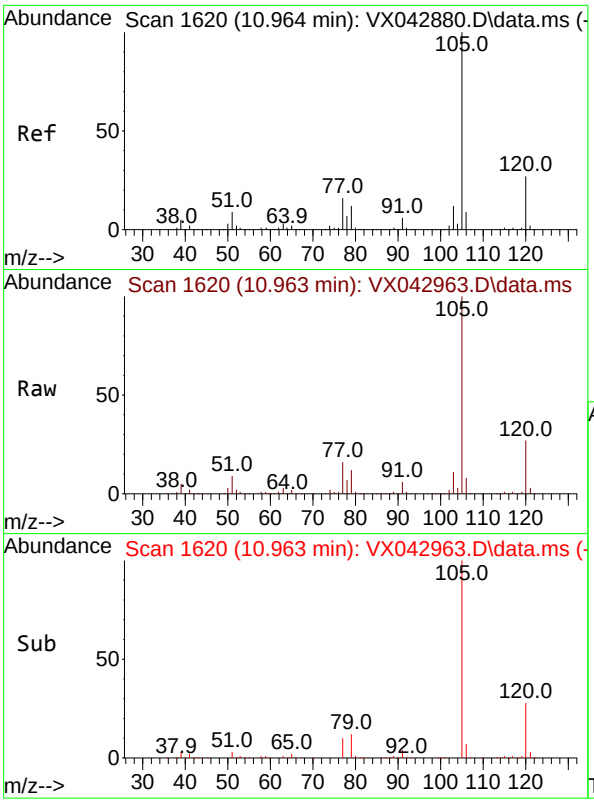


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion:152 Resp: 171900

Ion	Ratio	Lower	Upper
152	100		
115	86.0	43.3	129.9
150	171.9	0.0	345.0





#73
Isopropylbenzene
Concen: 49.707 ug/l
RT: 10.963 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

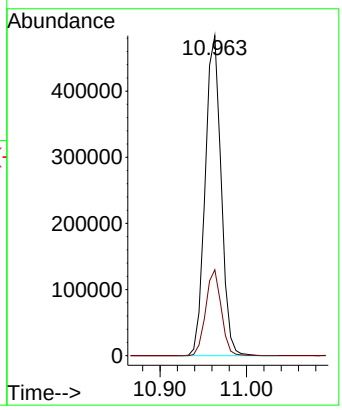
Tgt Ion:105 Resp: 61776

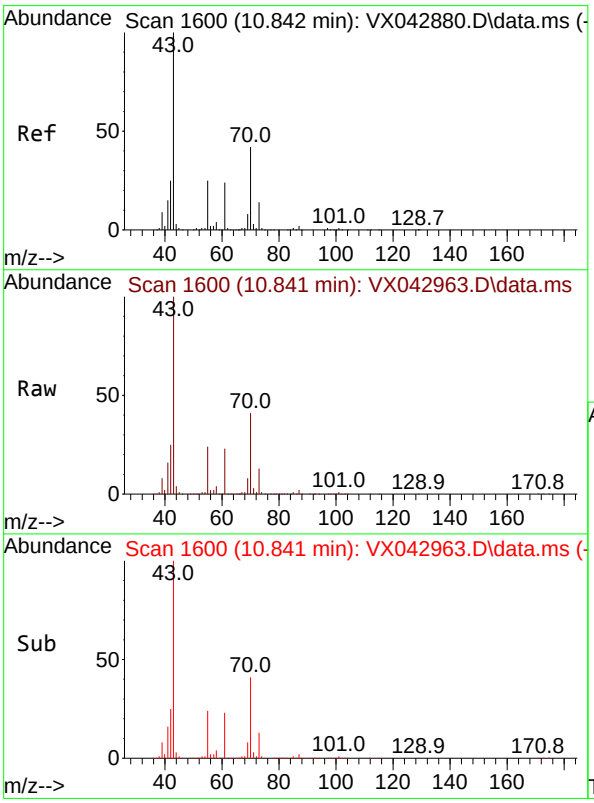
Ion	Ratio	Lower	Upper
105	100		
120	26.2	12.9	38.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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

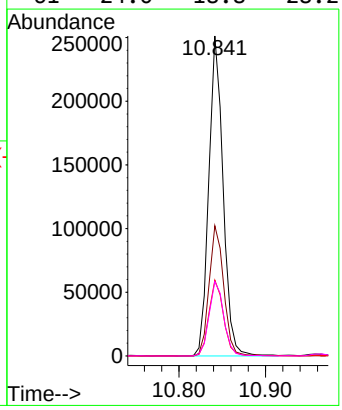


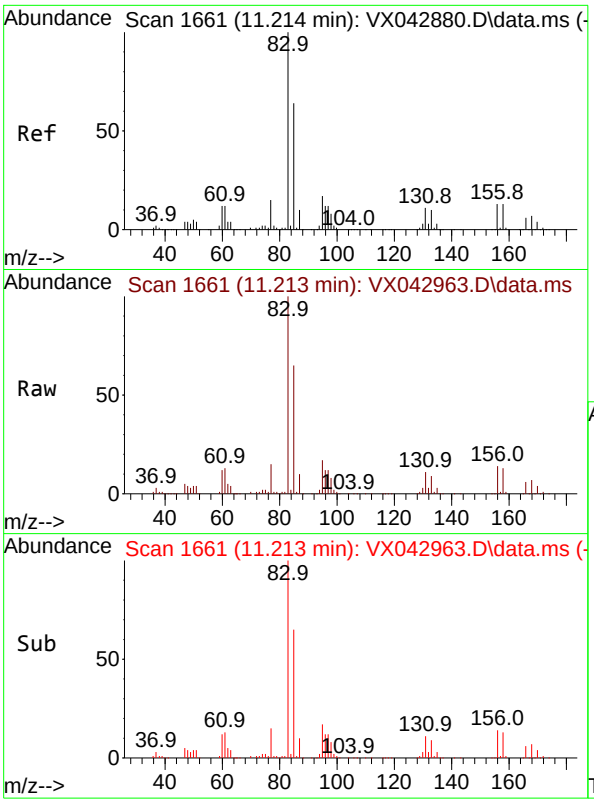


#74
N-amyl acetate
Concen: 51.660 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 43 Resp: 288890

Ion	Ratio	Lower	Upper
43	100		
70	41.7	32.9	49.3
55	24.4	19.3	28.9
61	24.0	18.8	28.2

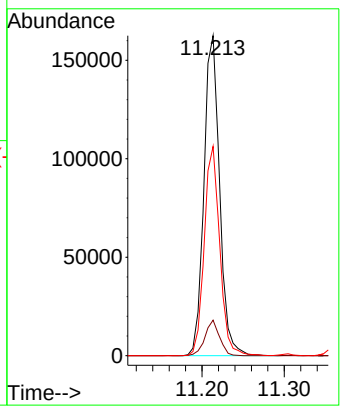




#75
1,1,2,2-Tetrachloroethane
Concen: 47.281 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 83 Resp: 21526

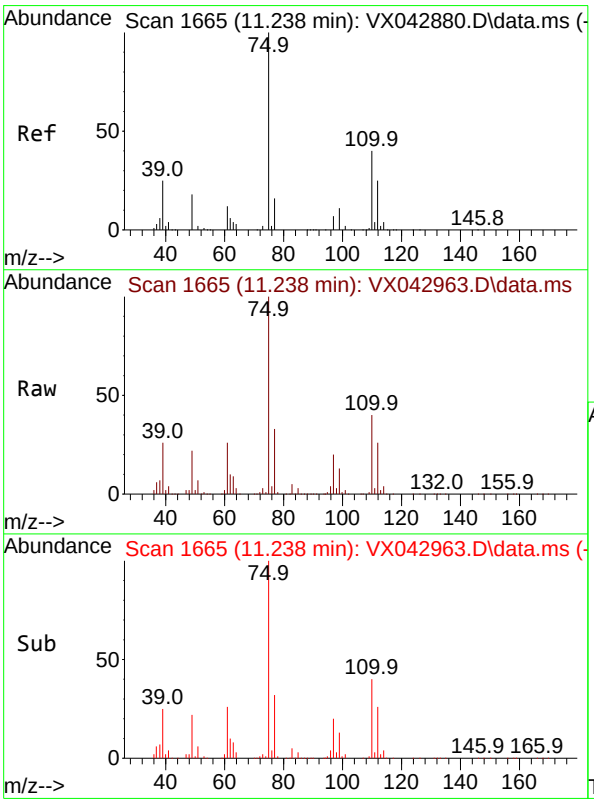
Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.3	15.8
85	64.8	32.0	96.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

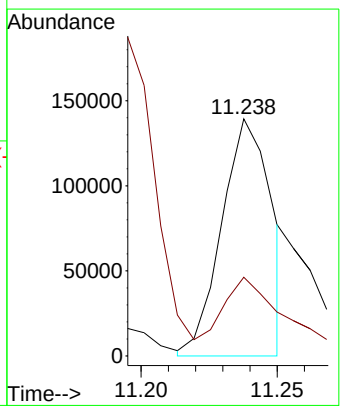
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

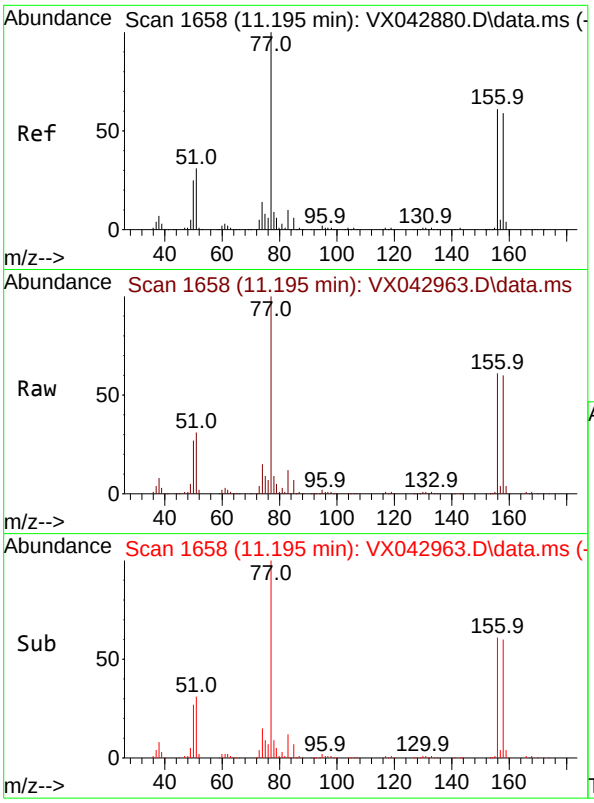


#76
1,2,3-Trichloropropane
Concen: 45.867 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 75 Resp: 177321

Ion	Ratio	Lower	Upper
75	100		
77	42.7	19.1	57.5

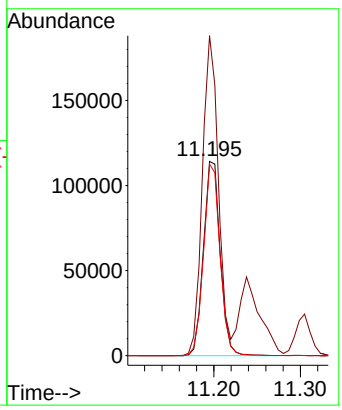




#77
Bromobenzene
Concen: 48.572 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion:156 Resp: 15355

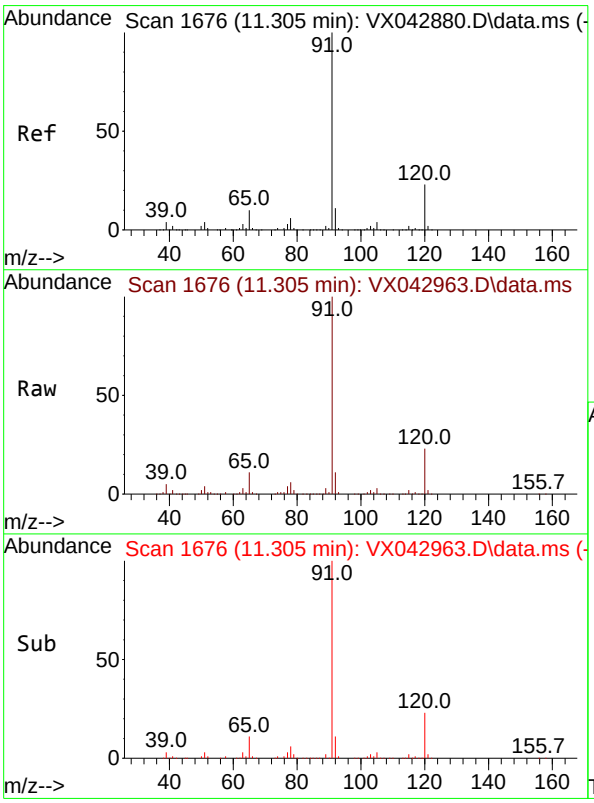
Ion	Ratio	Lower	Upper
156	100		
77	157.0	88.4	265.3
158	96.6	48.0	144.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

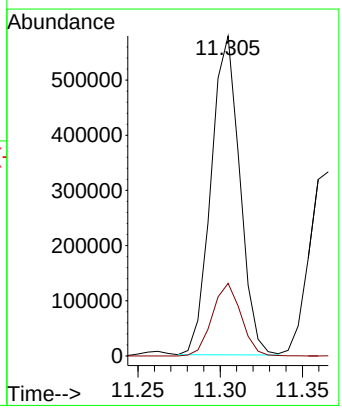
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

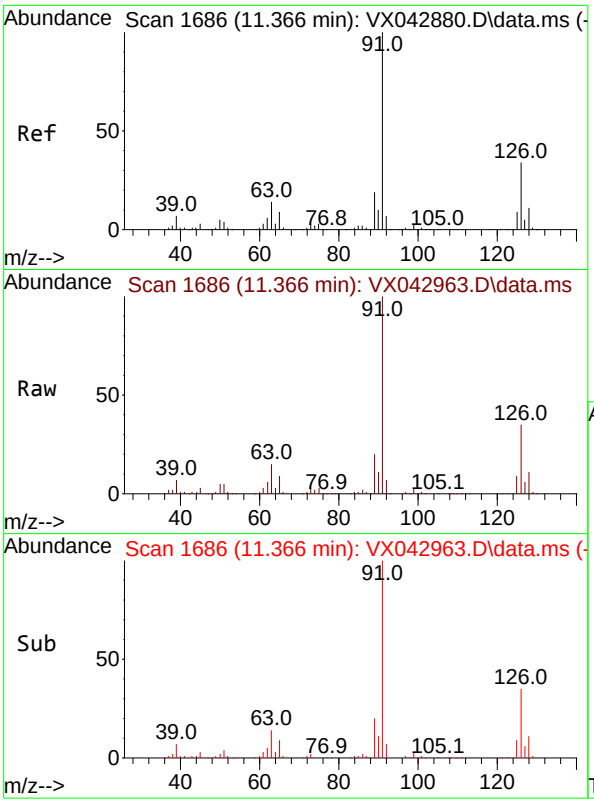


#78
n-propylbenzene
Concen: 50.854 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 91 Resp: 702040

Ion	Ratio	Lower	Upper
91	100		
120	22.8	11.5	34.4





#79
2-Chlorotoluene
Concen: 48.801 ug/l
RT: 11.366 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

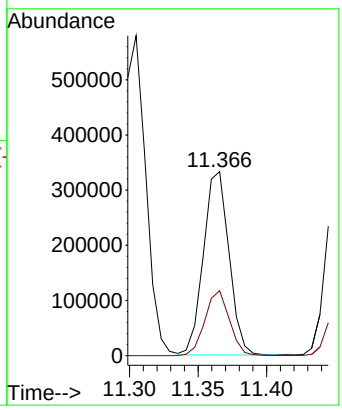
Tgt Ion: 91 Resp: 43180

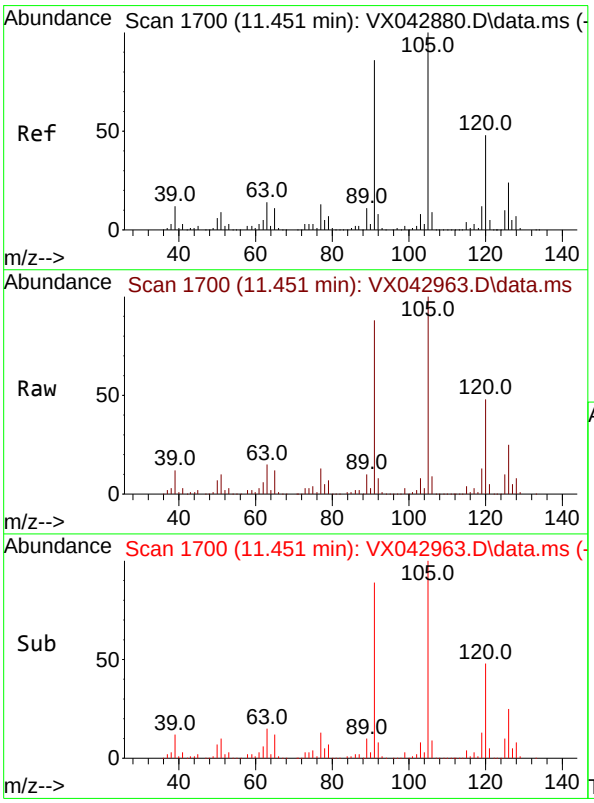
Ion	Ratio	Lower	Upper
91	100		
126	34.1	16.3	48.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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

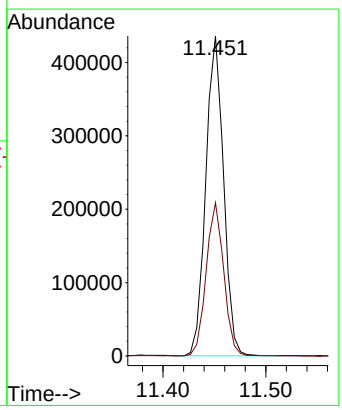


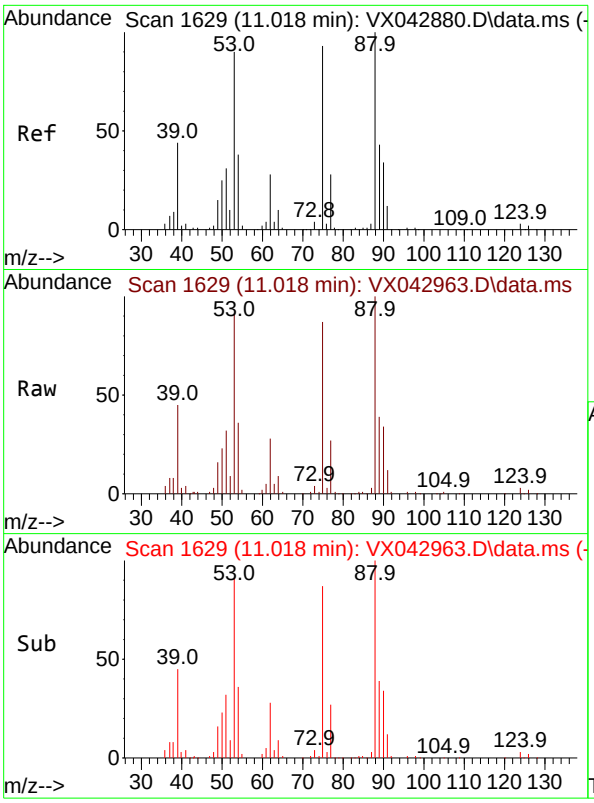


#80
1,3,5-Trimethylbenzene
Concen: 50.825 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion:105 Resp: 523023

Ion	Ratio	Lower	Upper
105	100		
120	47.4	24.1	72.3





#81
trans-1,4-Dichloro-2-butene
Concen: 49.687 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

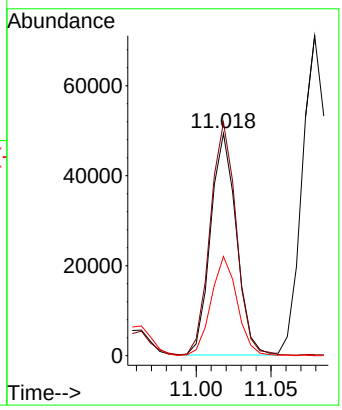
Tgt Ion: 75 Resp: 5907

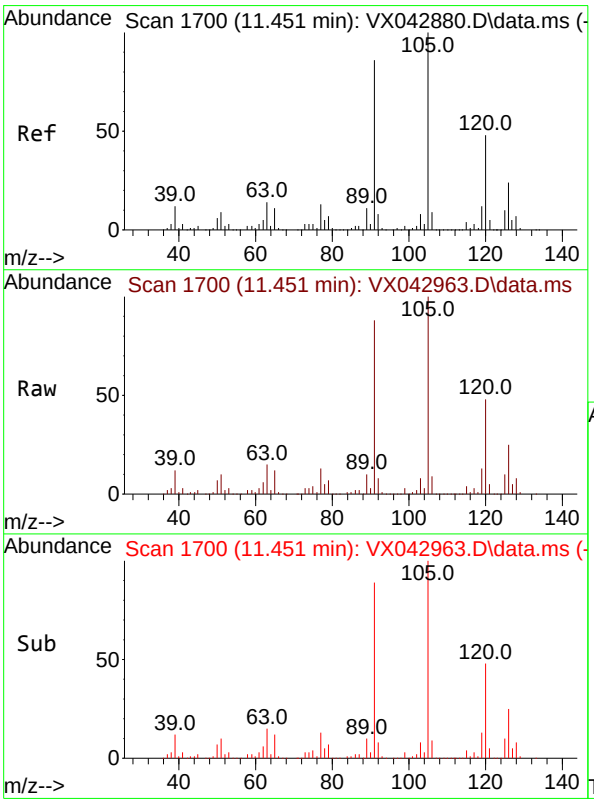
Ion	Ratio	Lower	Upper
75	100		
53	105.6	90.5	135.7
89	45.3	36.9	55.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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

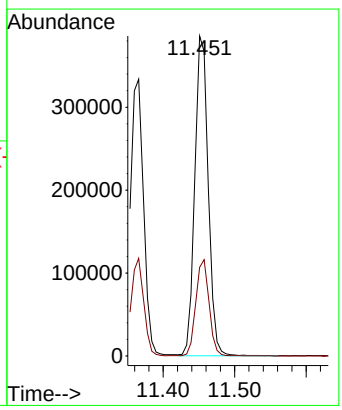


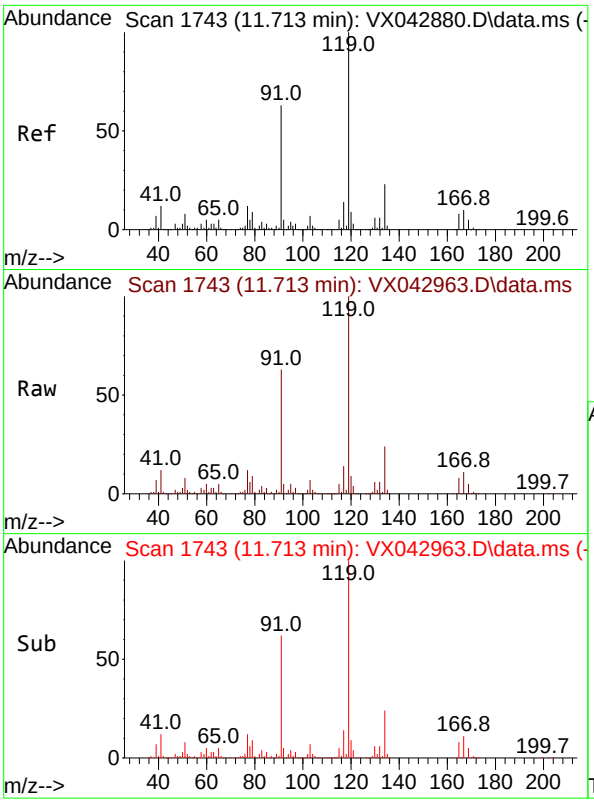


#82
4-Chlorotoluene
Concen: 50.490 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 91 Resp: 502147

Ion	Ratio	Lower	Upper
91	100		
126	29.9	14.2	42.6

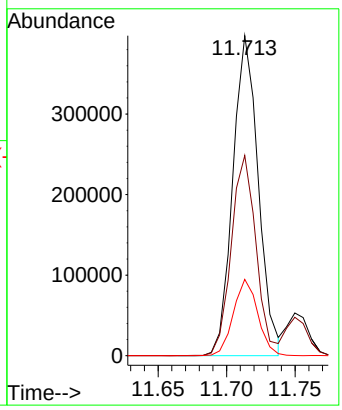




#83
tert-Butylbenzene
Concen: 48.620 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion:119 Resp: 51418

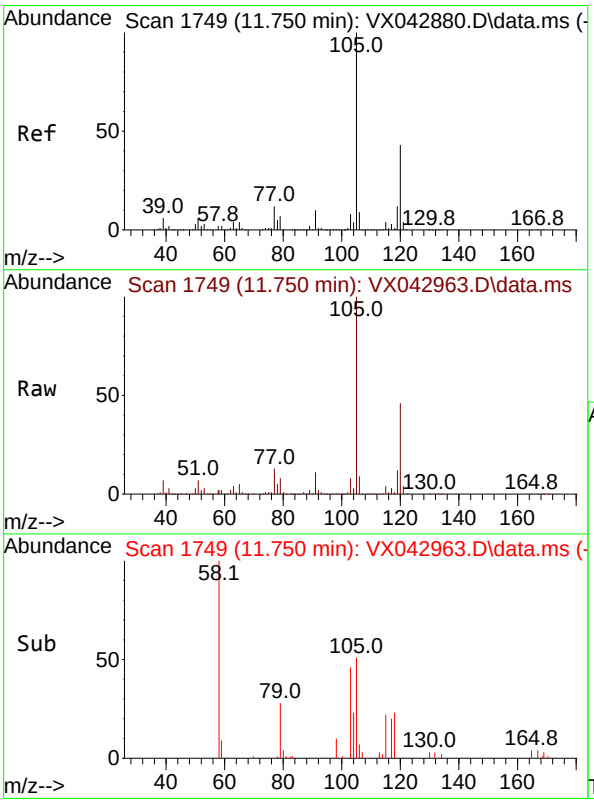
Ion	Ratio	Lower	Upper
119	100		
91	61.3	31.2	93.6
134	22.9	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

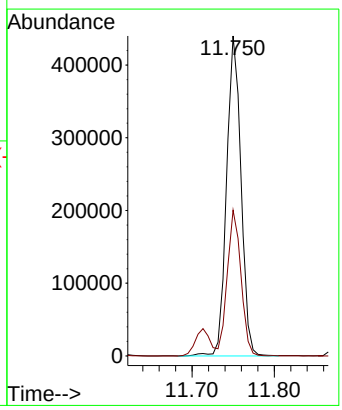
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

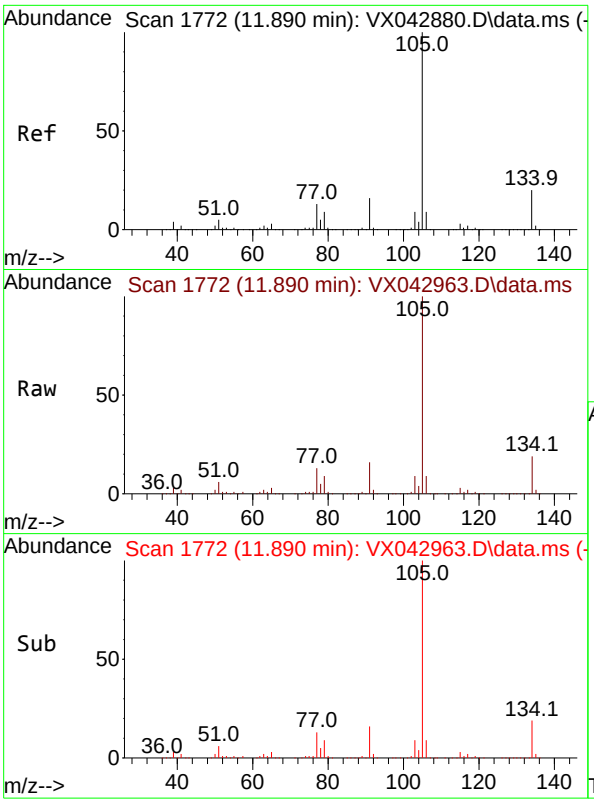


#84
1,2,4-Trimethylbenzene
Concen: 51.456 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion:105 Resp: 533084

Ion	Ratio	Lower	Upper
105	100		
120	43.2	21.2	63.6





#85
sec-Butylbenzene
Concen: 51.459 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

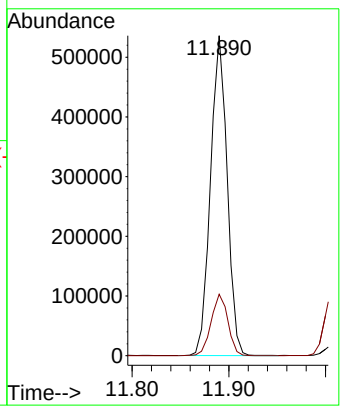
Tgt Ion:105 Resp: 64081

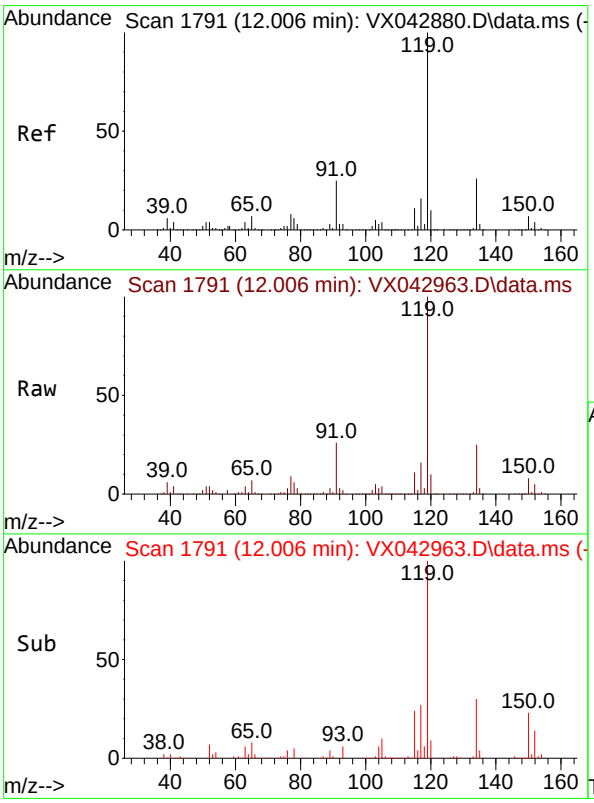
Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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

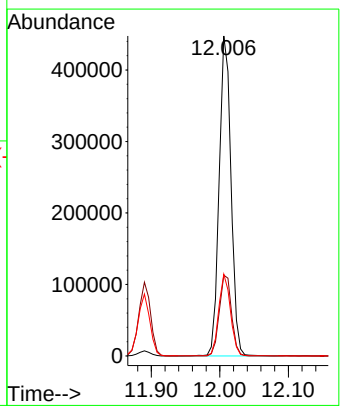


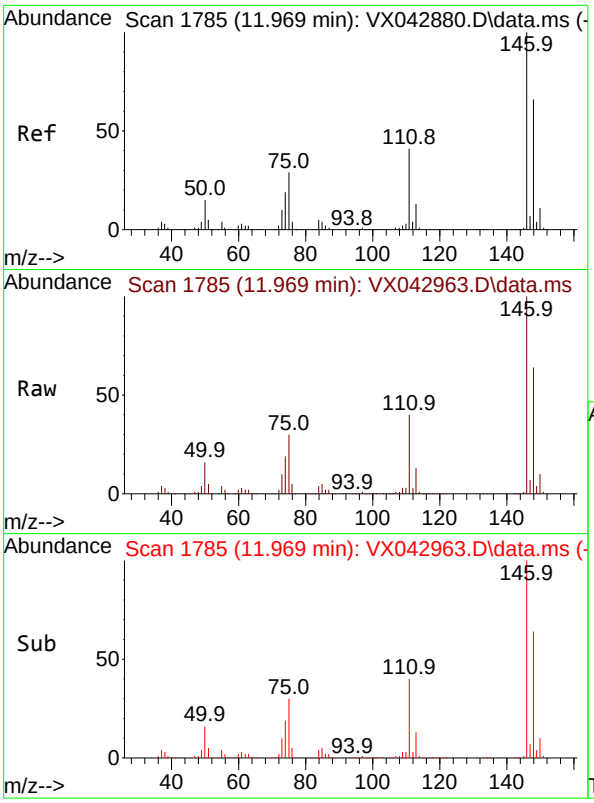


#86
p-Isopropyltoluene
Concen: 51.724 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion:119 Resp: 535150

Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.8	38.3
91	25.1	13.1	39.3

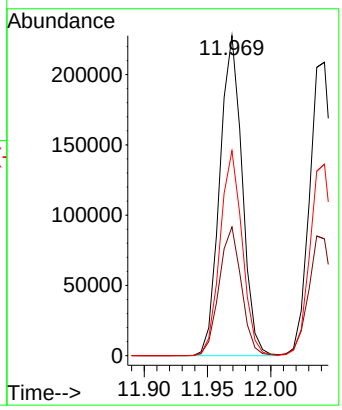




#87
1,3-Dichlorobenzene
Concen: 48.939 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion:146 Resp: 28000

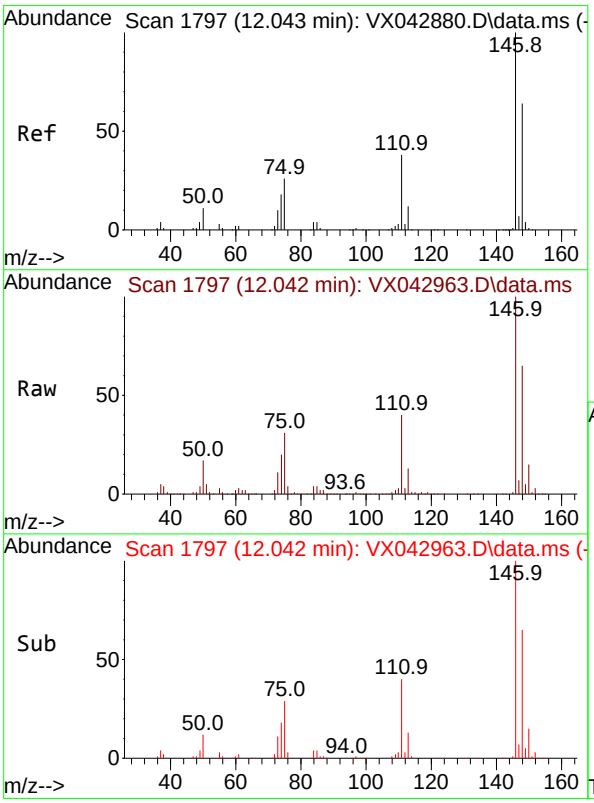
Ion	Ratio	Lower	Upper
146	100		
111	40.1	22.1	66.1
148	63.3	31.8	95.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

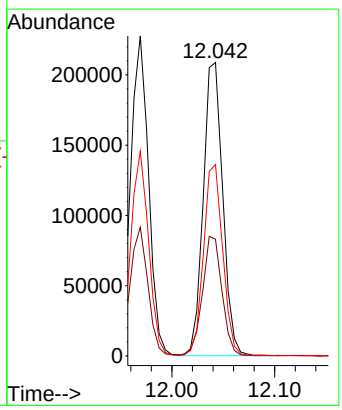
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

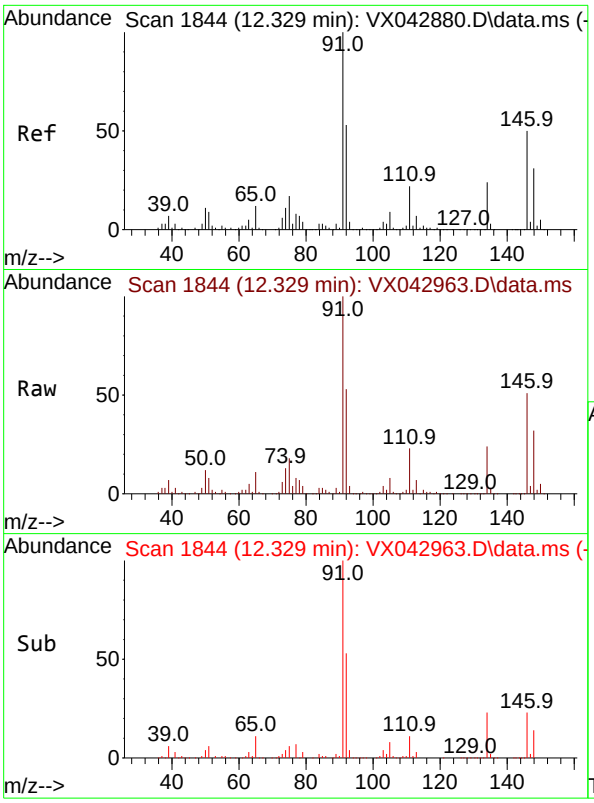


#88
1,4-Dichlorobenzene
Concen: 46.973 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion:146 Resp: 275470

Ion	Ratio	Lower	Upper
146	100		
111	40.7	21.3	63.7
148	64.6	31.8	95.4





#89
n-Butylbenzene
Concen: 51.234 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

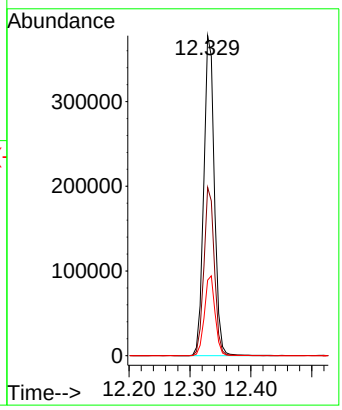
Tgt Ion: 91 Resp: 45729

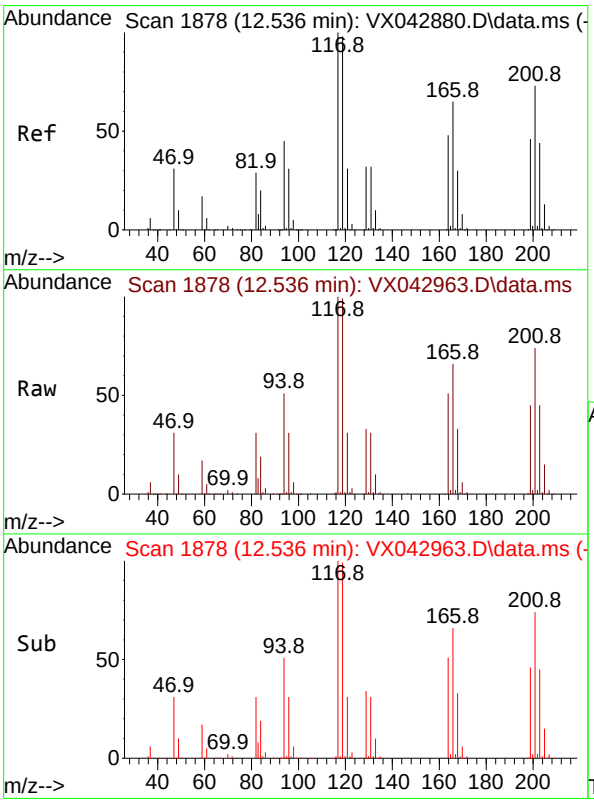
Ion	Ratio	Lower	Upper
91	100		
92	52.2	27.4	82.0
134	25.2	12.6	37.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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

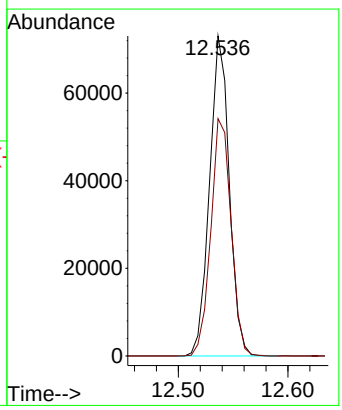


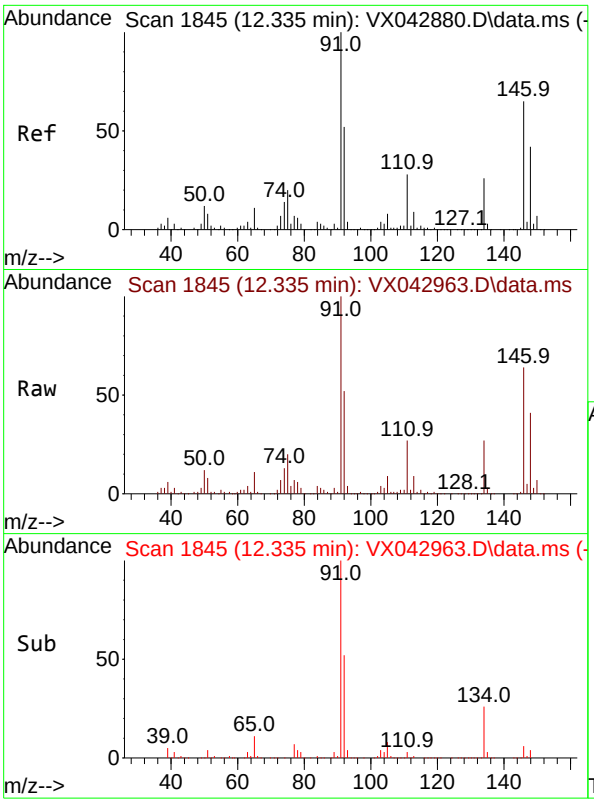


#90
Hexachloroethane
Concen: 48.060 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion:117 Resp: 90957

Ion	Ratio	Lower	Upper
117	100		
201	76.4	32.9	98.6

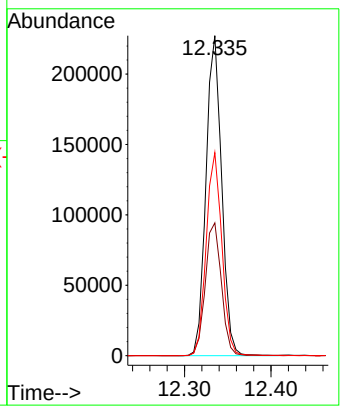




#91
1,2-Dichlorobenzene
Concen: 49.810 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion:146 Resp: 28538

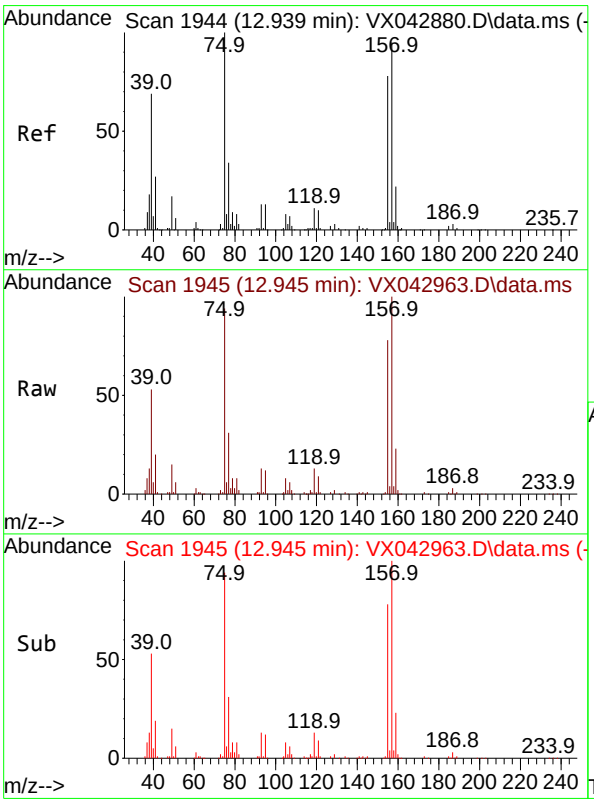
Ion	Ratio	Lower	Upper
146	100		
111	42.7	22.4	67.0
148	63.6	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

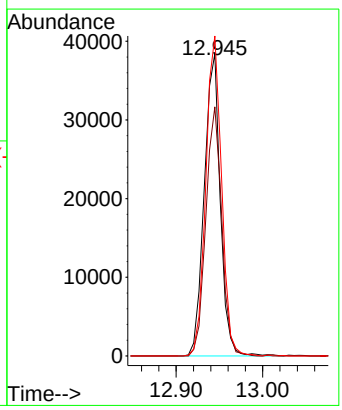
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

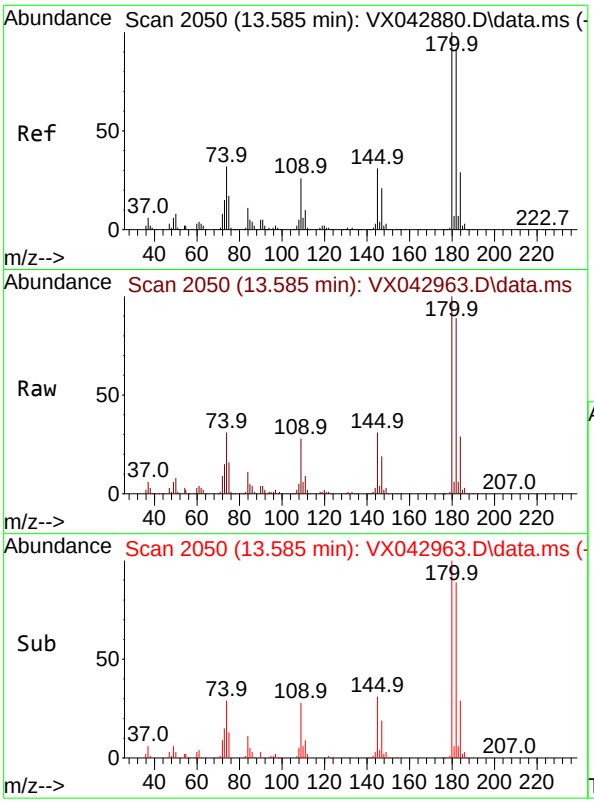


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.342 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion: 75 Resp: 49362

Ion	Ratio	Lower	Upper
75	100		
155	81.7	36.1	108.5
157	104.4	44.9	134.7





#93
1,2,4-Trichlorobenzene
Concen: 48.429 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

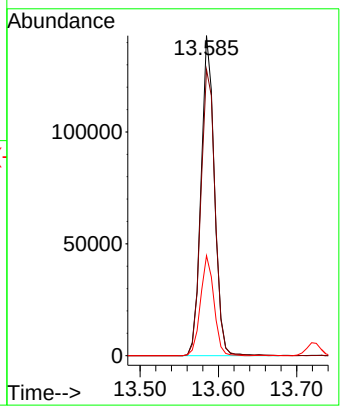
Tgt Ion:180 Resp: 16924

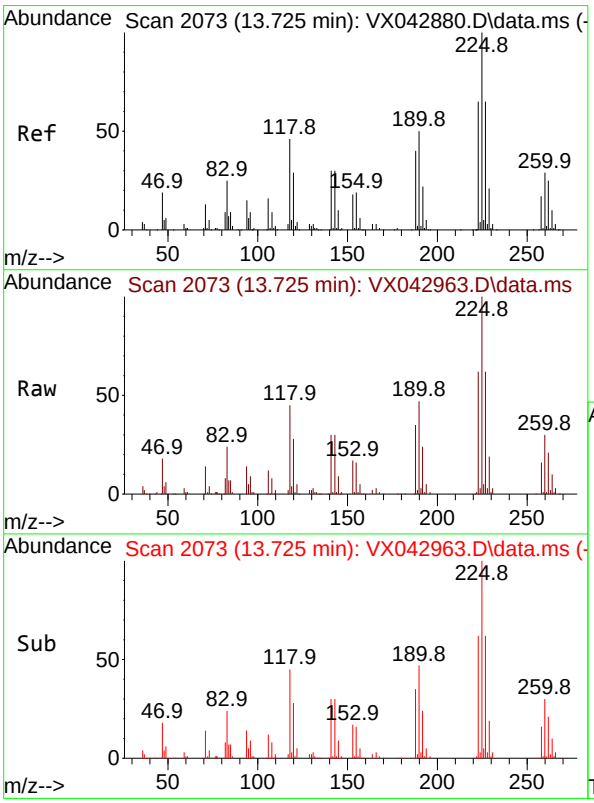
Ion	Ratio	Lower	Upper
180	100		
182	94.7	48.3	144.8
145	31.4	18.0	54.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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

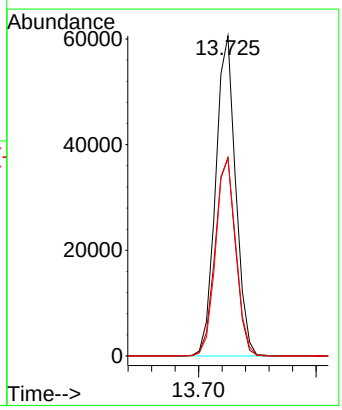


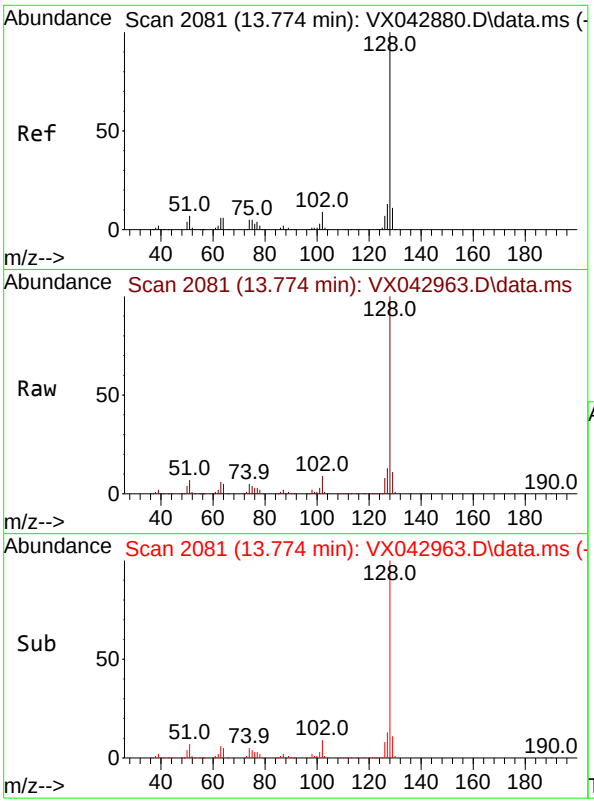


#94
Hexachlorobutadiene
Concen: 48.490 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion:225 Resp: 71871

Ion	Ratio	Lower	Upper
225	100		
223	63.0	31.1	93.2
227	62.4	32.5	97.5

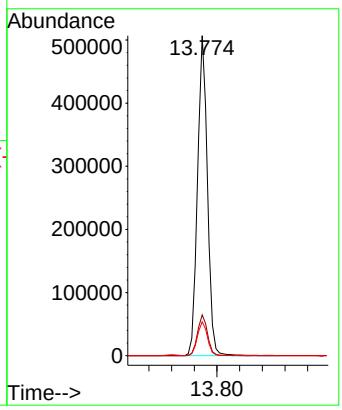




#95
Naphthalene
Concen: 50.750 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion:128 Resp: 61374

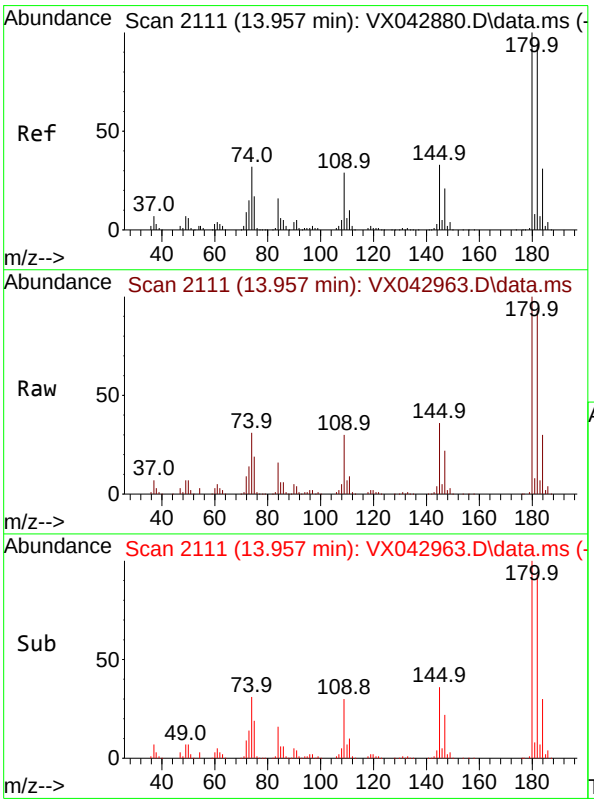
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	10.7	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

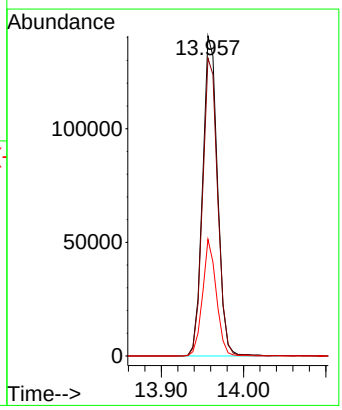
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024



#96
1,2,3-Trichlorobenzene
Concen: 50.468 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX042963.D
Acq: 09 Aug 2024 00:35

Tgt Ion:180 Resp: 177541

Ion	Ratio	Lower	Upper
180	100		
182	94.1	46.9	140.6
145	33.7	17.8	53.5



Sample Results: **VX042963.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080824\
Data File : VX042963.D
Acq On : 09 Aug 2024 00:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 09 05:46:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 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	91	0.00
2	T	Dichlorodifluoromethane	0.539	0.555	-3.0	91	0.00
3	P	Chloromethane	0.587	0.568	3.2	93	0.00
4	C	Vinyl Chloride	0.557	0.568	-2.0#	93	0.00
5	T	Bromomethane	0.337	0.335	0.6	96	0.00
6	T	Chloroethane	0.317	0.305	3.8	86	0.00
7	T	Trichlorofluoromethane	0.866	0.824	4.8	84	0.00
8	T	Diethyl Ether	0.319	0.326	-2.2	96	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.545	0.553	-1.5	94	0.00
10	T	Methyl Iodide	0.563	0.646	-14.7	102	0.00
11	T	Tert butyl alcohol	0.137	0.139	-1.5	86	0.00
12	CM	1,1-Dichloroethene	0.551	0.544	1.3#	92	0.00
13	T	Acrolein	0.135	0.151	-11.9	102	0.00
14	T	Allyl chloride	0.833	0.862	-3.5	96	0.00
15	T	Acrylonitrile	0.348	0.349	-0.3	93	0.00
16	T	Acetone	0.298	0.275	7.7	89	0.00
17	T	Carbon Disulfide	1.341	1.241	7.5	87	0.00
18	T	Methyl Acetate	0.944	0.923	2.2	95	0.00
19	T	Methyl tert-butyl Ether	1.855	1.895	-2.2	94	0.00
20	T	Methylene Chloride	0.705	0.632	10.4	96	0.00
21	T	trans-1,2-Dichloroethene	0.554	0.556	-0.4	91	0.00
22	T	Diisopropyl ether	1.829	1.897	-3.7	94	0.00
23	T	Vinyl Acetate	2.076	2.193	-5.6	93	0.00
24	P	1,1-Dichloroethane	1.052	1.078	-2.5	94	0.00
25	T	2-Butanone	0.468	0.471	-0.6	91	0.00
26	T	2,2-Dichloropropane	0.647	0.617	4.6	88	0.00
27	T	cis-1,2-Dichloroethene	0.658	0.669	-1.7	91	0.00
28	T	Bromochloromethane	0.404	0.373	7.7	98	0.00
29	T	Tetrahydrofuran	0.316	0.311	1.6	91	0.00
30	C	Chloroform	1.101	1.112	-1.0#	92	0.00
31	T	Cyclohexane	0.859	0.871	-1.4	92	0.00
32	T	1,1,1-Trichloroethane	0.970	0.977	-0.7	91	0.00
33	S	1,2-Dichloroethane-d4	0.686	0.717	-4.5	97	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
35	S	Dibromofluoromethane	0.327	0.337	-3.1	95	0.00
36	T	1,1-Dichloropropene	0.443	0.432	2.5	92	0.00
37	T	Ethyl Acetate	0.555	0.551	0.7	92	0.00
38	T	Carbon Tetrachloride	0.500	0.492	1.6	92	0.00
39	T	Methylcyclohexane	0.527	0.536	-1.7	89	0.00
40	TM	Benzene	1.376	1.392	-1.2	92	0.00
41	T	Methacrylonitrile	0.286	0.303	-5.9	94	0.00
42	TM	1,2-Dichloroethane	0.500	0.512	-2.4	94	0.00
43	T	Isopropyl Acetate	0.820	0.833	-1.6	92	0.00
44	TM	Trichloroethene	0.346	0.335	3.2	91	0.00
45	C	1,2-Dichloropropane	0.349	0.350	-0.3#	92	0.00
46	T	Dibromomethane	0.256	0.254	0.8	91	0.00
47	T	Bromodichloromethane	0.476	0.491	-3.2	92	0.00
48	T	Methyl methacrylate	0.393	0.411	-4.6	91	0.00

Sample Results: **VX042963.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080824\
Data File : VX042963.D
Acq On : 09 Aug 2024 00:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 09 05:46:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 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	0.009	0.009	0.0	94	0.00
50	S	Toluene-d8	1.161	1.170	-0.8	94	0.00
51	T	4-Methyl-2-Pentanone	0.549	0.565	-2.9	93	0.00
52	CM	Toluene	0.834	0.851	-2.0#	92	0.00
53	T	t-1,3-Dichloropropene	0.440	0.457	-3.9	92	0.00
54	T	cis-1,3-Dichloropropene	0.486	0.505	-3.9	92	0.00
55	T	1,1,2-Trichloroethane	0.339	0.343	-1.2	93	0.00
56	T	Ethyl methacrylate	0.546	0.569	-4.2	93	0.00
57	T	1,3-Dichloropropane	0.556	0.570	-2.5	94	0.00
58	T	2-Chloroethyl Vinyl ether	0.257	0.268	-4.3	91	0.00
59	T	2-Hexanone	0.426	0.438	-2.8	94	0.00
60	T	Dibromochloromethane	0.373	0.376	-0.8	92	0.00
61	T	1,2-Dibromoethane	0.358	0.357	0.3	91	0.00
62	S	4-Bromofluorobenzene	0.417	0.435	-4.3	100	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00
64	T	Tetrachloroethene	0.348	0.355	-2.0	93	0.00
65	PM	Chlorobenzene	1.061	1.053	0.8	93	0.00
66	T	1,1,1,2-Tetrachloroethane	0.366	0.370	-1.1	93	0.00
67	C	Ethyl Benzene	1.785	1.819	-1.9#	92	0.00
68	T	m/p-Xylenes	0.681	0.705	-3.5	93	0.00
69	T	o-Xylene	0.683	0.690	-1.0	92	0.00
70	T	Styrene	1.098	1.174	-6.9	93	0.00
71	P	Bromoform	0.286	0.308	-7.7	94	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
73	T	Isopropylbenzene	3.615	3.594	0.6	94	0.00
74	T	N-amyl acetate	1.627	1.681	-3.3	96	0.00
75	P	1,1,2,2-Tetrachloroethane	1.324	1.252	5.4	95	0.00
76	T	1,2,3-Trichloropropane	1.124	1.032	8.2	94	0.00
77	T	Bromobenzene	0.920	0.893	2.9	94	0.00
78	T	n-propylbenzene	4.015	4.084	-1.7	94	0.00
79	T	2-Chlorotoluene	2.574	2.512	2.4	94	0.00
80	T	1,3,5-Trimethylbenzene	2.993	3.043	-1.7	95	0.00
81	T	trans-1,4-Dichloro-2-butene	0.346	0.344	0.6	92	0.00
82	T	4-Chlorotoluene	2.893	2.921	-1.0	96	0.00
83	T	tert-Butylbenzene	3.076	2.991	2.8	93	0.00
84	T	1,2,4-Trimethylbenzene	3.013	3.101	-2.9	95	0.00
85	T	sec-Butylbenzene	3.622	3.728	-2.9	95	0.00
86	T	p-Isopropyltoluene	3.009	3.113	-3.5	94	0.00
87	T	1,3-Dichlorobenzene	1.664	1.629	2.1	95	0.00
88	T	1,4-Dichlorobenzene	1.706	1.603	6.0	95	0.00
89	T	n-Butylbenzene	2.596	2.660	-2.5	94	0.00
90	T	Hexachloroethane	0.550	0.529	3.8	93	0.00
91	T	1,2-Dichlorobenzene	1.666	1.660	0.4	97	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.291	0.287	1.4	94	0.00
93	T	1,2,4-Trichlorobenzene	1.017	0.985	3.1	93	0.00
94	T	Hexachlorobutadiene	0.431	0.418	3.0	93	0.00
95	T	Naphthalene	3.518	3.570	-1.5	94	0.00

Sample Results: **VX042963.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080824\
Data File : VX042963.D
Acq On : 09 Aug 2024 00:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 09 05:46:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 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	1.023	1.033	-1.0	95	0.00

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

Sample Results: **VX042963.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080824\
Data File : VX042963.D
Acq On : 09 Aug 2024 00:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 09 05:46:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 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	91	0.00
2	T	Dichlorodifluoromethane	50.000	51.447	-2.9	91	0.00
3	P	Chloromethane	50.000	48.378	3.2	93	0.00
4	C	Vinyl Chloride	50.000	50.938	-1.9#	93	0.00
5	T	Bromomethane	50.000	49.603	0.8	96	0.00
6	T	Chloroethane	50.000	48.105	3.8	86	0.00
7	T	Trichlorofluoromethane	50.000	47.558	4.9	84	0.00
8	T	Diethyl Ether	50.000	51.076	-2.2	96	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	50.728	-1.5	94	0.00
10	T	Methyl Iodide	50.000	57.331	-14.7	102	0.00
11	T	Tert butyl alcohol	250.000	254.130	-1.7	86	0.00
12	CM	1,1-Dichloroethene	50.000	49.387	1.2#	92	0.00
13	T	Acrolein	250.000	280.978	-12.4	102	0.00
14	T	Allyl chloride	50.000	51.736	-3.5	96	0.00
15	T	Acrylonitrile	250.000	250.160	-0.1	93	0.00
16	T	Acetone	250.000	231.180	7.5	89	0.00
17	T	Carbon Disulfide	50.000	46.253	7.5	87	0.00
18	T	Methyl Acetate	50.000	48.896	2.2	95	0.00
19	T	Methyl tert-butyl Ether	50.000	51.067	-2.1	94	0.00
20	T	Methylene Chloride	50.000	51.342	-2.7	96	0.00
21	T	trans-1,2-Dichloroethene	50.000	50.151	-0.3	91	0.00
22	T	Diisopropyl ether	50.000	51.849	-3.7	94	0.00
23	T	Vinyl Acetate	250.000	264.011	-5.6	93	0.00
24	P	1,1-Dichloroethane	50.000	51.231	-2.5	94	0.00
25	T	2-Butanone	250.000	251.832	-0.7	91	0.00
26	T	2,2-Dichloropropane	50.000	47.710	4.6	88	0.00
27	T	cis-1,2-Dichloroethene	50.000	50.881	-1.8	91	0.00
28	T	Bromochloromethane	50.000	46.191	7.6	98	0.00
29	T	Tetrahydrofuran	250.000	246.162	1.5	91	0.00
30	C	Chloroform	50.000	50.475	-1.0#	92	0.00
31	T	Cyclohexane	50.000	50.711	-1.4	92	0.00
32	T	1,1,1-Trichloroethane	50.000	50.380	-0.8	91	0.00
33	S	1,2-Dichloroethane-d4	50.000	52.222	-4.4	97	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	92	0.00
35	S	Dibromofluoromethane	50.000	51.503	-3.0	95	0.00
36	T	1,1-Dichloropropene	50.000	48.696	2.6	92	0.00
37	T	Ethyl Acetate	50.000	49.634	0.7	92	0.00
38	T	Carbon Tetrachloride	50.000	49.208	1.6	92	0.00
39	T	Methylcyclohexane	50.000	50.855	-1.7	89	0.00
40	TM	Benzene	50.000	50.585	-1.2	92	0.00
41	T	Methacrylonitrile	50.000	53.074	-6.1	94	0.00
42	TM	1,2-Dichloroethane	50.000	51.118	-2.2	94	0.00
43	T	Isopropyl Acetate	50.000	50.810	-1.6	92	0.00
44	TM	Trichloroethene	50.000	48.418	3.2	91	0.00
45	C	1,2-Dichloropropane	50.000	50.081	-0.2#	92	0.00
46	T	Dibromomethane	50.000	49.504	1.0	91	0.00
47	T	Bromodichloromethane	50.000	51.613	-3.2	92	0.00
48	T	Methyl methacrylate	50.000	52.200	-4.4	91	0.00

Sample Results: **VX042963.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080824\
Data File : VX042963.D
Acq On : 09 Aug 2024 00:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 09 05:46:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 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	1053.240	-5.3	94	0.00
50	S	Toluene-d8	50.000	50.424	-0.8	94	0.00
51	T	4-Methyl-2-Pentanone	250.000	256.900	-2.8	93	0.00
52	CM	Toluene	50.000	50.970	-1.9#	92	0.00
53	T	t-1,3-Dichloropropene	50.000	51.925	-3.8	92	0.00
54	T	cis-1,3-Dichloropropene	50.000	51.987	-4.0	92	0.00
55	T	1,1,2-Trichloroethane	50.000	50.514	-1.0	93	0.00
56	T	Ethyl methacrylate	50.000	52.139	-4.3	93	0.00
57	T	1,3-Dichloropropane	50.000	51.309	-2.6	94	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	260.423	-4.2	91	0.00
59	T	2-Hexanone	250.000	257.430	-3.0	94	0.00
60	T	Dibromochloromethane	50.000	50.426	-0.9	92	0.00
61	T	1,2-Dibromoethane	50.000	49.874	0.3	91	0.00
62	S	4-Bromofluorobenzene	50.000	52.183	-4.4	100	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	92	0.00
64	T	Tetrachloroethene	50.000	50.990	-2.0	93	0.00
65	PM	Chlorobenzene	50.000	49.645	0.7	93	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	50.542	-1.1	93	0.00
67	C	Ethyl Benzene	50.000	50.967	-1.9#	92	0.00
68	T	m/p-Xylenes	100.000	103.541	-3.5	93	0.00
69	T	o-Xylene	50.000	50.519	-1.0	92	0.00
70	T	Styrene	50.000	53.465	-6.9	93	0.00
71	P	Bromoform	50.000	49.661	0.7	94	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	96	0.00
73	T	Isopropylbenzene	50.000	49.707	0.6	94	0.00
74	T	N-amyl acetate	50.000	51.660	-3.3	96	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	47.281	5.4	95	0.00
76	T	1,2,3-Trichloropropane	50.000	45.867	8.3	94	0.00
77	T	Bromobenzene	50.000	48.572	2.9	94	0.00
78	T	n-propylbenzene	50.000	50.854	-1.7	94	0.00
79	T	2-Chlorotoluene	50.000	48.801	2.4	94	0.00
80	T	1,3,5-Trimethylbenzene	50.000	50.825	-1.7	95	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	49.687	0.6	92	0.00
82	T	4-Chlorotoluene	50.000	50.490	-1.0	96	0.00
83	T	tert-Butylbenzene	50.000	48.620	2.8	93	0.00
84	T	1,2,4-Trimethylbenzene	50.000	51.456	-2.9	95	0.00
85	T	sec-Butylbenzene	50.000	51.459	-2.9	95	0.00
86	T	p-Isopropyltoluene	50.000	51.724	-3.4	94	0.00
87	T	1,3-Dichlorobenzene	50.000	48.939	2.1	95	0.00
88	T	1,4-Dichlorobenzene	50.000	46.973	6.1	95	0.00
89	T	n-Butylbenzene	50.000	51.234	-2.5	94	0.00
90	T	Hexachloroethane	50.000	48.060	3.9	93	0.00
91	T	1,2-Dichlorobenzene	50.000	49.810	0.4	97	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	49.342	1.3	94	0.00
93	T	1,2,4-Trichlorobenzene	50.000	48.429	3.1	93	0.00
94	T	Hexachlorobutadiene	50.000	48.490	3.0	93	0.00
95	T	Naphthalene	50.000	50.750	-1.5	94	0.00

Sample Results: **VX042963.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080824\
Data File : VX042963.D
Acq On : 09 Aug 2024 00:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 09 05:46:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 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	50.468	-0.9	95	0.00

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

Raw Data: **VX042986.D**

Alliance TECHNICAL GROUP
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.: P3457 SAS No.: P3457 SDG No.: P3457

Instrument ID: MSVOA_X Calibration Date/Time: 08/09/2024 11:01

Lab File ID: VX042986.D Init. Calib. Date(s): 08/06/2024 08/06/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 18:18 20:15

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.539	0.561		4.08	20
Chloromethane	0.587	0.601	0.1	2.38	20
Vinyl Chloride	0.557	0.572		2.69	20
Bromomethane	0.337	0.370		9.79	20
Chloroethane	0.317	0.308		-2.84	20
1,1,2-Trichlorotrifluoroethane	0.545	0.554		1.65	20
1,1-Dichloroethene	0.551	0.521		-5.45	20
Acetone	0.298	0.332		11.41	20
Carbon Disulfide	1.341	1.264		-5.74	20
Methyl tert-butyl Ether	1.855	1.864		0.49	20
Methylene Chloride	0.705	0.629		-10.78	20
trans-1,2-Dichloroethene	0.554	0.547		-1.26	20
1,1-Dichloroethane	1.052	1.064	0.1	1.14	20
Cyclohexane	0.859	0.878		2.21	20
2-Butanone	0.468	0.501		7.05	20
Carbon Tetrachloride	0.500	0.499		-0.2	20
cis-1,2-Dichloroethene	0.658	0.664		0.91	20
Chloroform	1.101	1.104		0.27	20
1,1,1-Trichloroethane	0.970	0.961		-0.93	20
Methylcyclohexane	0.527	0.583		10.63	20
Benzene	1.376	1.422		3.34	20
1,2-Dichloroethane	0.500	0.534		6.8	20
Trichloroethene	0.346	0.356		2.89	20
Bromodichloromethane	0.476	0.507		6.51	20
Toluene	0.834	0.892		6.95	20
1,1,2-Trichloroethane	0.339	0.365		7.67	20
Dibromochloromethane	0.373	0.395		5.9	20
Tetrachloroethene	0.348	0.342		-1.72	20
Chlorobenzene	1.061	1.071	0.3	0.94	20
Ethyl Benzene	1.785	1.875		5.04	20
m/p-Xylenes	0.681	0.728		6.9	20
o-Xylene	0.683	0.704		3.08	20
Isopropylbenzene	3.615	3.592		-0.64	20
1,4-Dichlorobenzene	1.706	1.626		-4.69	20
1,2-Dichlorobenzene	1.666	1.663		-0.18	20
1,2-Dichloroethane-d4	0.686	0.716		4.37	20
Dibromofluoromethane	0.327	0.344		5.2	20
Toluene-d8	1.161	1.238		6.63	20

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

Alliance TECHNICAL GROUP

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.: P3457 SAS No.: P3457 SDG No.: P3457

Instrument ID: MSVOA_X Calibration Date/Time: 08/09/2024 11:01

Lab File ID: VX042986.D Init. Calib. Date(s): 08/06/2024 08/06/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 18:18 20:15

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
4-Bromofluorobenzene	0.417	0.464		11.27	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_X\Data\VX080924\
Data File : VX042986.D
Acq On : 09 Aug 2024 11:01
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 09 16:26:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	230041	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	373855	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	344403	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	176162	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	164822	52.192	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 104.380%			
35) Dibromofluoromethane	5.385	113	128550	52.589	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.180%			
50) Toluene-d8	8.647	98	462867	53.339	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 106.680%			
62) 4-Bromofluorobenzene	11.079	95	173429	55.616	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 111.240%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	129041	52.042	ug/l	98
3) Chloromethane	1.301	50	138144	51.133	ug/l	96
4) Vinyl Chloride	1.374	62	131586	51.334	ug/l	99
5) Bromomethane	1.599	94	85109	54.861	ug/l	100
6) Chloroethane	1.660	64	70963	48.594	ug/l	100
7) Trichlorofluoromethane	1.868	101	214541	53.817	ug/l	97
8) Diethyl Ether	2.136	74	71117	48.501	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.313	101	127357	50.813	ug/l	97
10) Methyl Iodide	2.441	142	147771	57.019	ug/l	93
11) Tert butyl alcohol	2.995	59	161906	257.752	ug/l #	91
12) 1,1-Dichloroethene	2.307	96	119829	47.260	ug/l	95
13) Acrolein	2.239	56	168012	271.355	ug/l	99
14) Allyl chloride	2.660	41	203785	53.190	ug/l	94
15) Acrylonitrile	3.069	53	418167	260.825	ug/l	98
16) Acetone	2.392	43	382322	279.117	ug/l	95
17) Carbon Disulfide	2.502	76	290868	47.141	ug/l	99
18) Methyl Acetate	2.709	43	212346	48.886	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	428700	50.233	ug/l	100
20) Methylene Chloride	2.782	84	144697	51.103	ug/l	93
21) trans-1,2-Dichloroethene	3.081	96	125835	49.328	ug/l	93
22) Diisopropyl ether	3.764	45	433683	51.527	ug/l	95
23) Vinyl Acetate	3.721	43	2575294	269.596	ug/l	99
24) 1,1-Dichloroethane	3.605	63	244741	50.560	ug/l	99
25) 2-Butanone	4.562	43	576004	267.772	ug/l	97
26) 2,2-Dichloropropane	4.471	77	197157	66.253	ug/l	97
27) cis-1,2-Dichloroethene	4.483	96	152642	50.456	ug/l	95
28) Bromochloromethane	4.898	49	92813	49.970	ug/l	93
29) Tetrahydrofuran	5.007	42	366453	252.105	ug/l	96
30) Chloroform	5.093	83	254057	50.135	ug/l	99
31) Cyclohexane	5.465	56	202002	51.121	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	221028	49.547	ug/l	98
36) 1,1-Dichloropropene	5.690	75	166253	50.164	ug/l	97
37) Ethyl Acetate	4.715	43	215068	51.866	ug/l	99
38) Carbon Tetrachloride	5.672	117	186726	49.911	ug/l	99
39) Methylcyclohexane	7.379	83	217802	55.283	ug/l	96
40) Benzene	6.031	78	531784	51.701	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080924\
Data File : VX042986.D
Acq On : 09 Aug 2024 11:01
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 09 16:26:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	114123	53.435	ug/l		93
42) 1,2-Dichloroethane	6.086	62	199737	53.387	ug/l		99
43) Isopropyl Acetate	6.342	43	336749	54.912	ug/l		100
44) Trichloroethene	7.123	130	132929	51.433	ug/l		94
45) 1,2-Dichloropropane	7.428	63	134340	51.487	ug/l		99
46) Dibromomethane	7.580	93	100472	52.429	ug/l		94
47) Bromodichloromethane	7.818	83	189505	53.233	ug/l		99
48) Methyl methacrylate	7.696	41	164404	55.909	ug/l		93
49) 1,4-Dioxane	7.665	88	69618	1066.512	ug/l	#	91
51) 4-Methyl-2-Pentanone	8.574	43	1132209	275.626	ug/l		98
52) Toluene	8.720	92	333403	53.437	ug/l		95
53) t-1,3-Dichloropropene	8.976	75	191203	58.102	ug/l		99
54) cis-1,3-Dichloropropene	8.366	75	202619	55.752	ug/l		93
55) 1,1,2-Trichloroethane	9.153	97	136375	53.767	ug/l		93
56) Ethyl methacrylate	9.116	69	226008	55.374	ug/l		96
57) 1,3-Dichloropropane	9.305	76	221289	53.258	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	525562	273.208	ug/l		98
59) 2-Hexanone	9.433	43	888326	279.086	ug/l		98
60) Dibromochloromethane	9.519	129	147724	53.018	ug/l		99
61) 1,2-Dibromoethane	9.610	107	140219	52.324	ug/l		98
64) Tetrachloroethene	9.269	164	117759	49.175	ug/l		99
65) Chlorobenzene	10.080	112	368872	50.472	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	128729	51.082	ug/l		99
67) Ethyl Benzene	10.195	91	645812	52.533	ug/l		100
68) m/p-Xylenes	10.299	106	501707	106.904	ug/l		98
69) o-Xylene	10.640	106	242373	51.555	ug/l		99
70) Styrene	10.653	104	413894	54.749	ug/l		98
71) Bromoform	10.799	173	106002	49.651	ug/l	#	99
73) Isopropylbenzene	10.964	105	632790	49.684	ug/l		98
74) N-amyl acetate	10.842	43	299248	52.218	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.213	83	220388	47.235	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	183443m	46.302	ug/l		
77) Bromobenzene	11.195	156	156098	48.181	ug/l		91
78) n-propylbenzene	11.305	91	745278	52.679	ug/l		100
79) 2-Chlorotoluene	11.366	91	450277	49.657	ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	545054	51.684	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.018	75	66428	54.518	ug/l		93
82) 4-Chlorotoluene	11.457	91	515713	50.599	ug/l		98
83) tert-Butylbenzene	11.713	119	537850	49.627	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	554989	52.274	ug/l		100
85) sec-Butylbenzene	11.890	105	675118	52.902	ug/l		100
86) p-Isopropyltoluene	12.006	119	569369	53.700	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	287075	48.961	ug/l		98
88) 1,4-Dichlorobenzene	12.043	146	286479	47.668	ug/l		99
89) n-Butylbenzene	12.329	91	500598	54.729	ug/l		98
90) Hexachloroethane	12.536	117	96905	49.964	ug/l		91
91) 1,2-Dichlorobenzene	12.335	146	293002	49.903	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	50255	49.019	ug/l		87
93) 1,2,4-Trichlorobenzene	13.585	180	178536	49.851	ug/l		98
94) Hexachlorobutadiene	13.725	225	79108	52.081	ug/l		100
95) Naphthalene	13.774	128	621113	50.117	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	185422	51.433	ug/l		99

Sample Results: **VX042986.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080924\
Data File : VX042986.D
Acq On : 09 Aug 2024 11:01
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 09 16:26:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

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

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

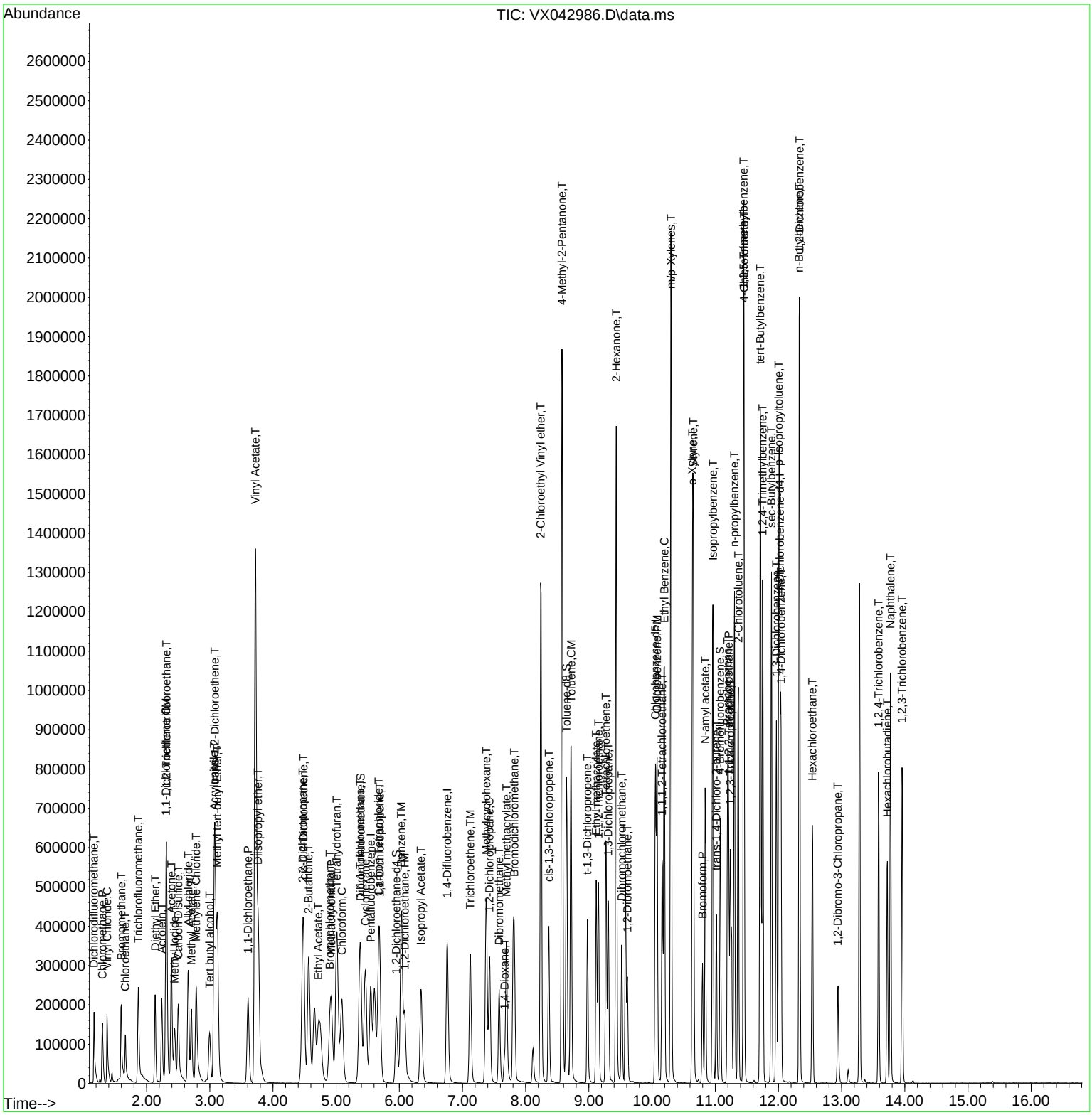
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080924\
Data File : VX042986.D
Acq On : 09 Aug 2024 11:01
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

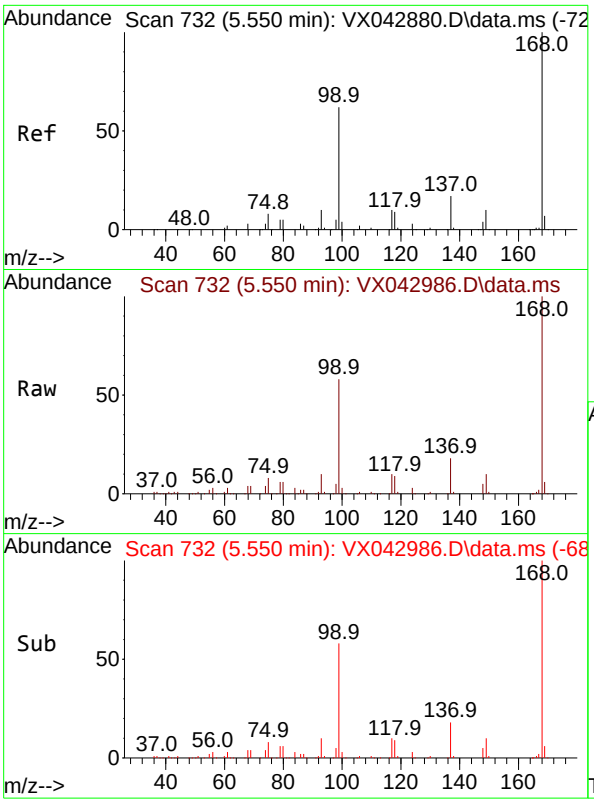
Quant Time: Aug 09 16:26:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

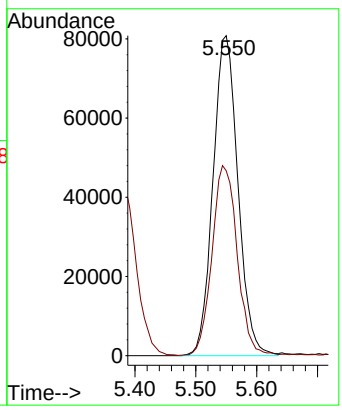




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion:168 Resp: 23004

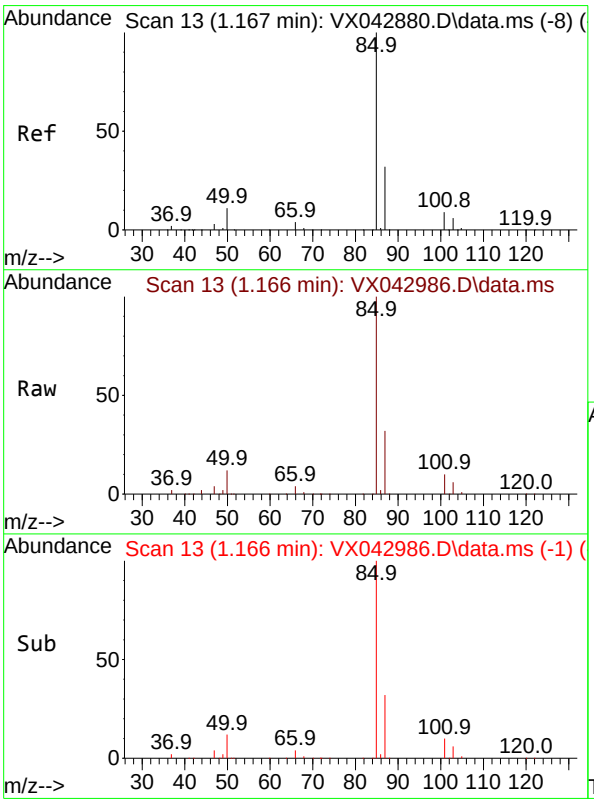
Ion	Ratio	Lower	Upper
168	100		
99	57.7	56.6	85.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

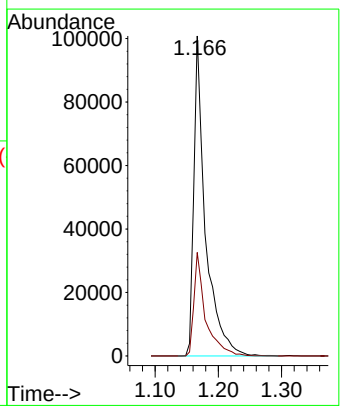
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

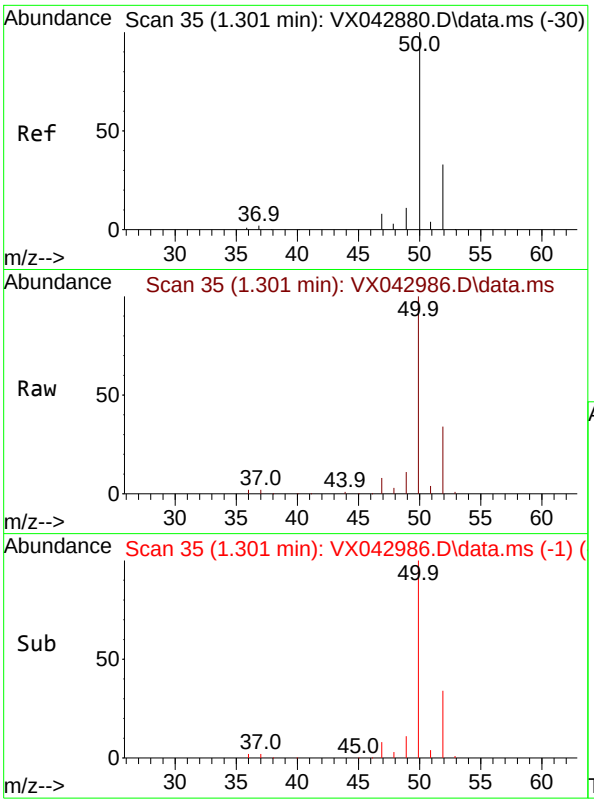


#2
Dichlorodifluoromethane
Concen: 52.042 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 85 Resp: 129041

Ion	Ratio	Lower	Upper
85	100		
87	32.4	16.7	50.1





#3
Chloromethane
Concen: 51.133 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

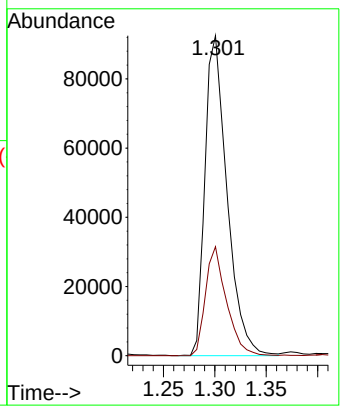
Tgt Ion: 50 Resp: 13814

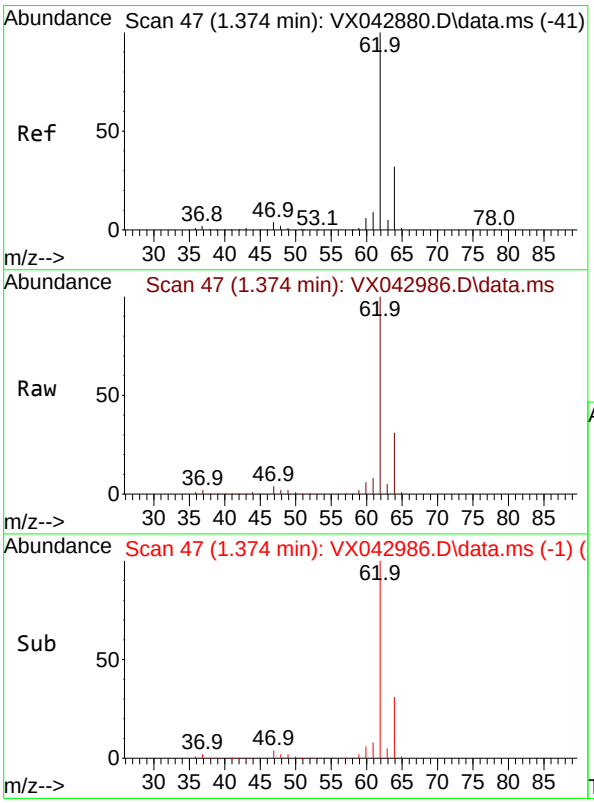
Ion	Ratio	Lower	Upper
50	100		
52	34.1	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

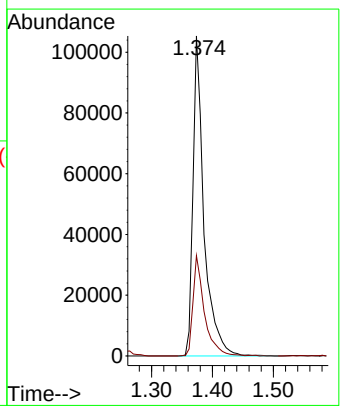


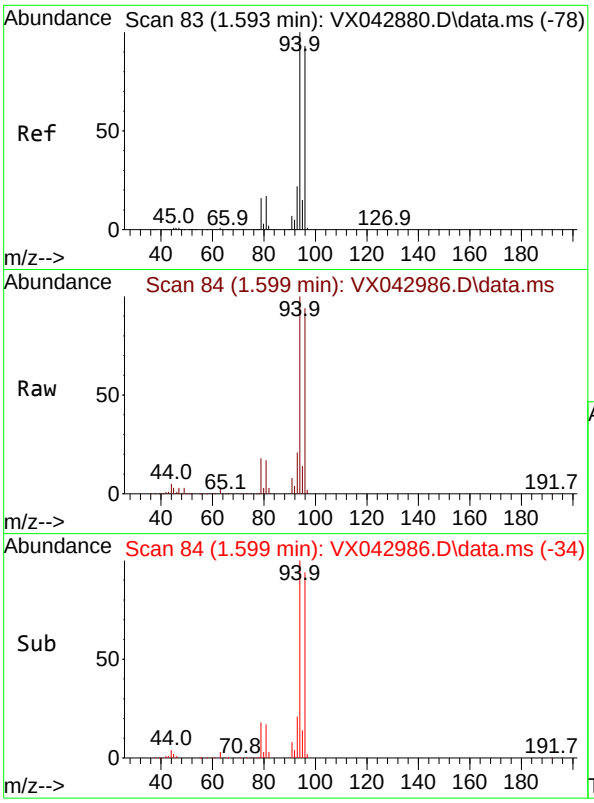


#4
Vinyl Chloride
Concen: 51.334 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 62 Resp: 131586

Ion	Ratio	Lower	Upper
62	100		
64	31.4	25.4	38.0

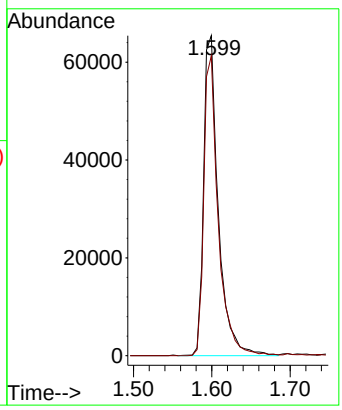




#5
Bromomethane
Concen: 54.861 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.006 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 94 Resp: 8510

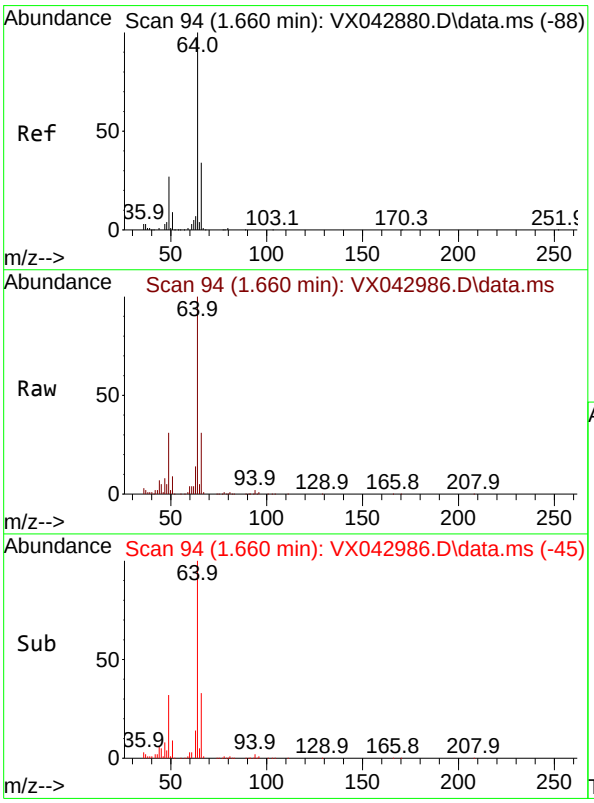
Ion	Ratio	Lower	Upper
94	100		
96	93.7	74.6	111.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

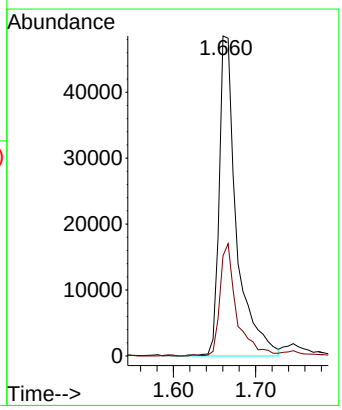
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

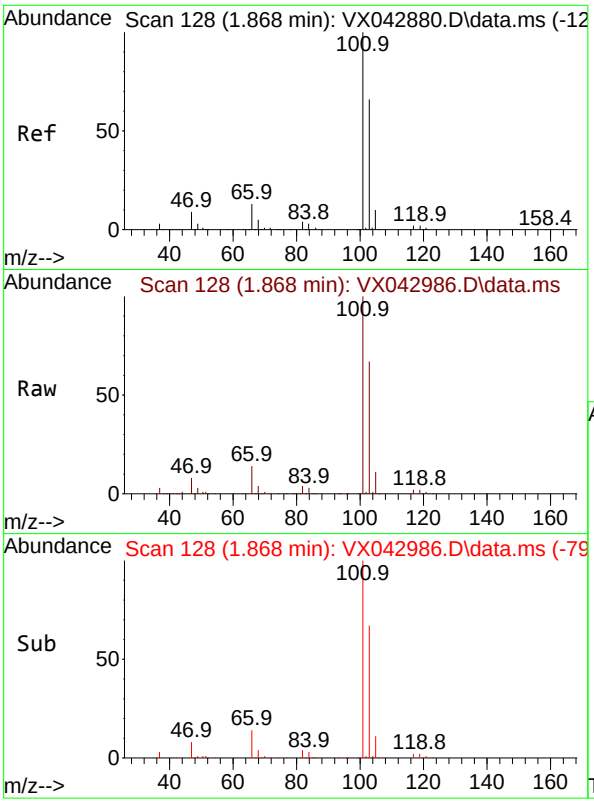


#6
Chloroethane
Concen: 48.594 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 64 Resp: 70963

Ion	Ratio	Lower	Upper
64	100		
66	31.3	25.1	37.7

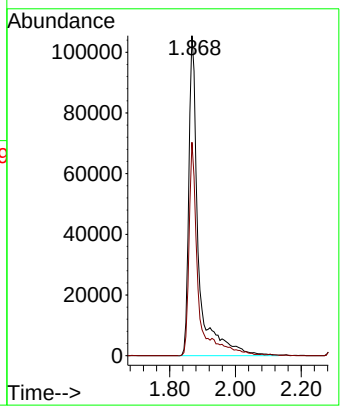




#7
Trichlorofluoromethane
Concen: 53.817 ug/l
RT: 1.868 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion:101 Resp: 21454

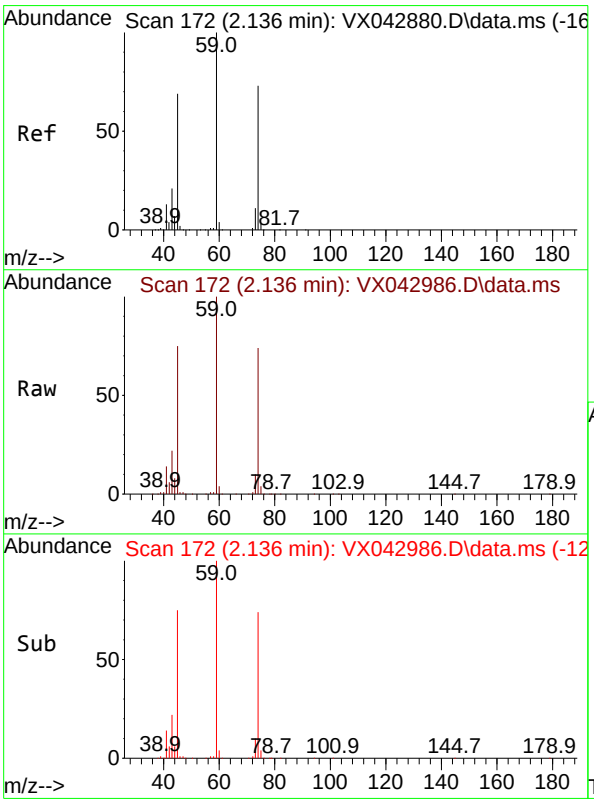
Ion	Ratio	Lower	Upper
101	100		
103	66.7	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

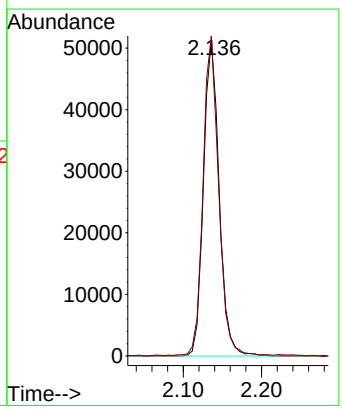
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

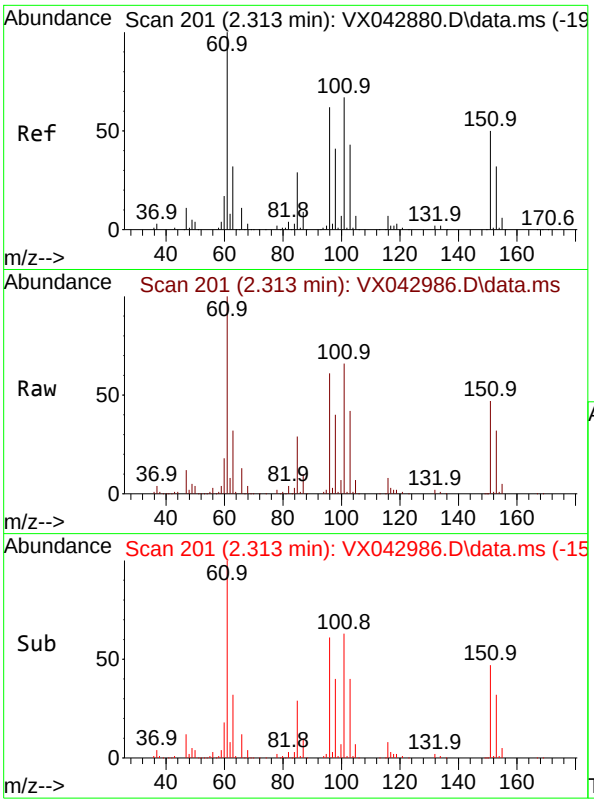


#8
Diethyl Ether
Concen: 48.501 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 74 Resp: 71117

Ion	Ratio	Lower	Upper
74	100		
45	100.4	53.3	159.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.813 ug/l
RT: 2.313 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

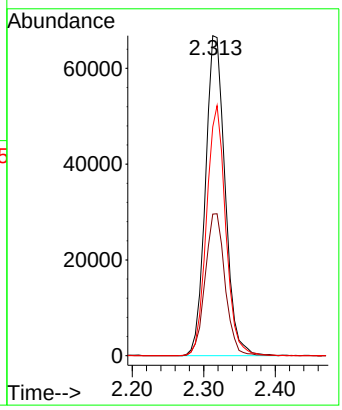
Tgt Ion:101 Resp: 12735

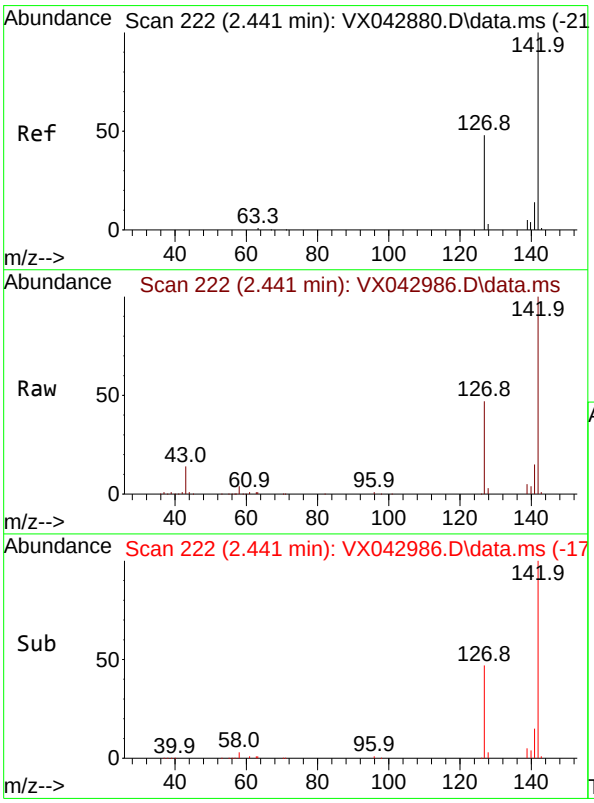
Ion	Ratio	Lower	Upper
101	100		
85	45.0	37.0	55.6
151	76.1	58.6	87.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

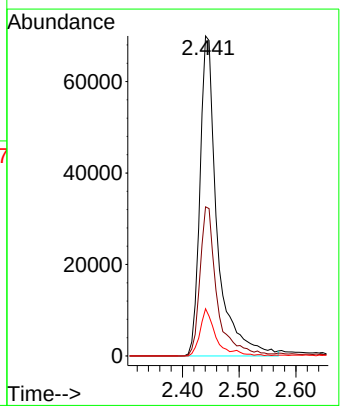


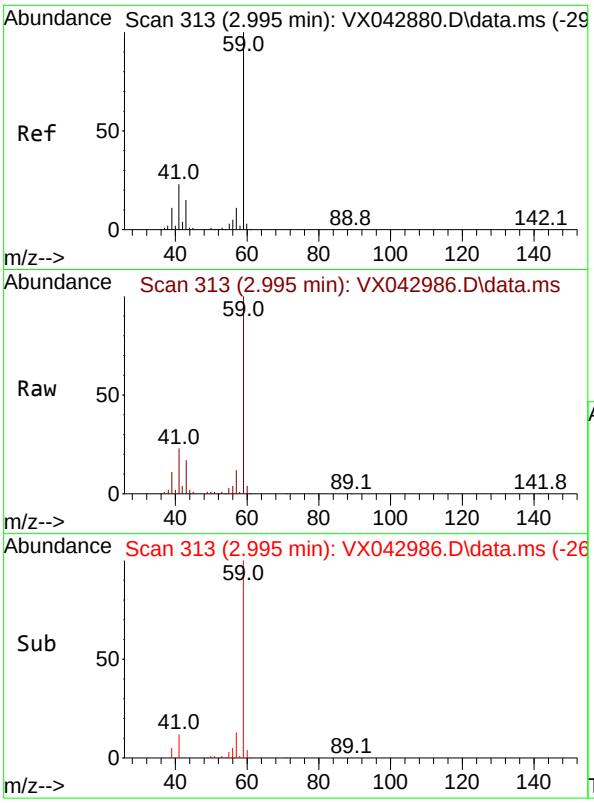


#10
Methyl Iodide
Concen: 57.019 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion:142 Resp: 147771

Ion	Ratio	Lower	Upper
142	100		
127	45.9	41.6	62.4
141	13.8	11.6	17.4





#11
Tert butyl alcohol
Concen: 257.752 ug/l
RT: 2.995 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

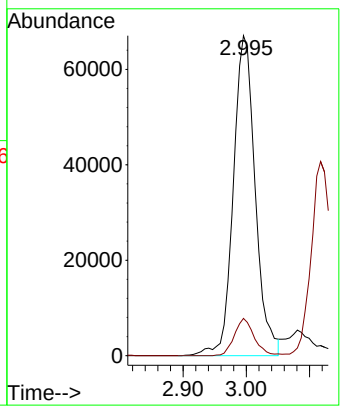
Tgt Ion: 59 Resp: 16190

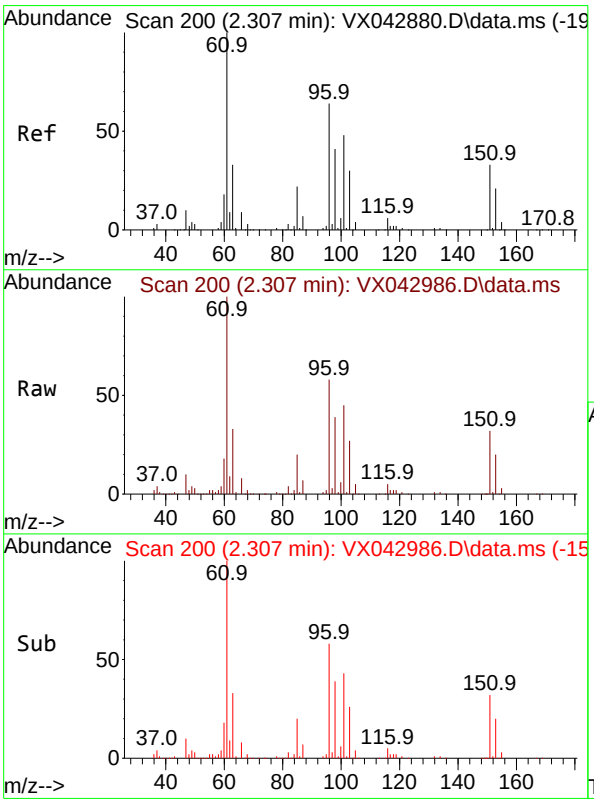
Ion	Ratio	Lower	Upper
59	100		
57	10.6	6.0	9.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

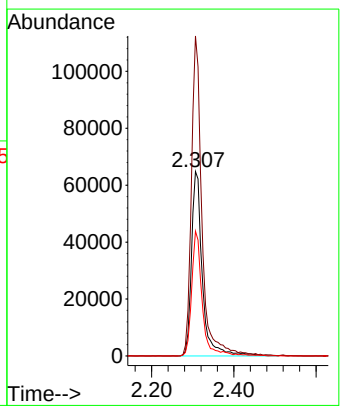


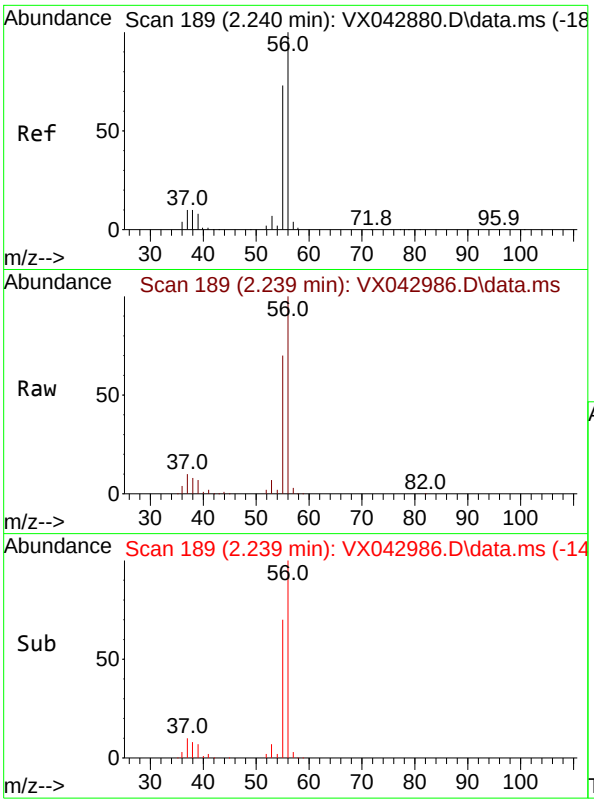


#12
1,1-Dichloroethene
Concen: 47.260 ug/l
RT: 2.307 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 96 Resp: 119829

Ion	Ratio	Lower	Upper
96	100		
61	173.4	144.6	216.8
98	67.6	50.4	75.6

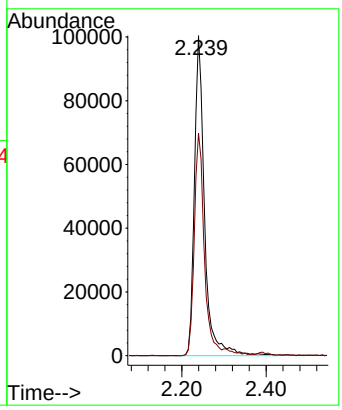




#13
Acrolein
Concen: 271.355 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 56 Resp: 16801

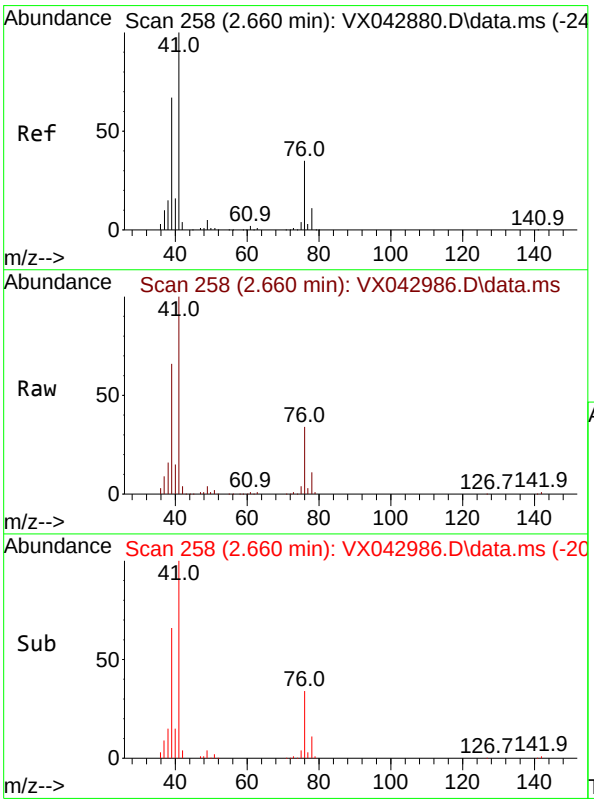
Ion	Ratio	Lower	Upper
56	100		
55	70.7	57.1	85.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

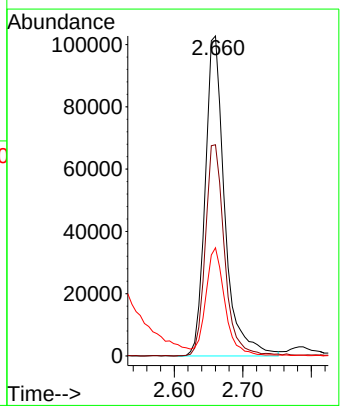
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

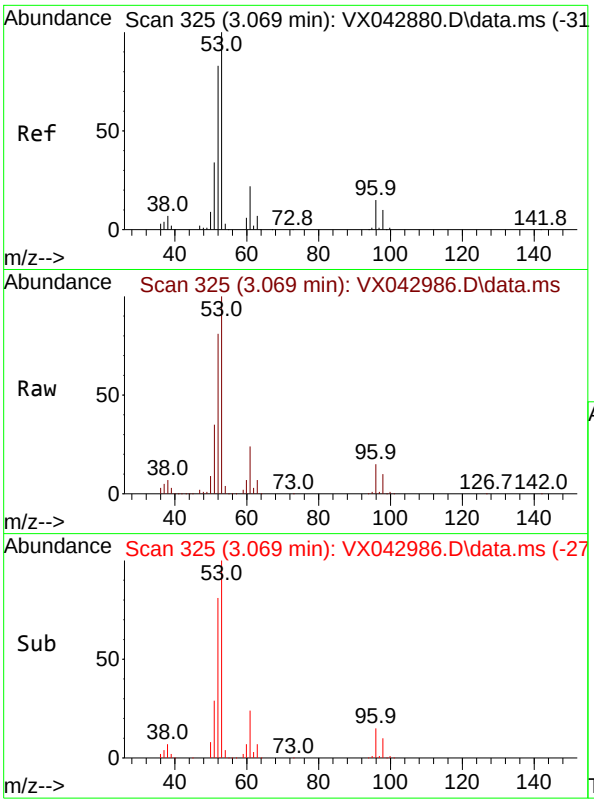


#14
Allyl chloride
Concen: 53.190 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 41 Resp: 203785

Ion	Ratio	Lower	Upper
41	100		
39	65.0	55.8	83.6
76	33.1	24.3	36.5





#15
Acrylonitrile
Concen: 260.825 ug/l
RT: 3.069 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

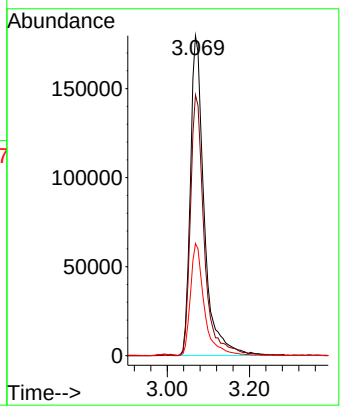
Tgt Ion: 53 Resp: 41816

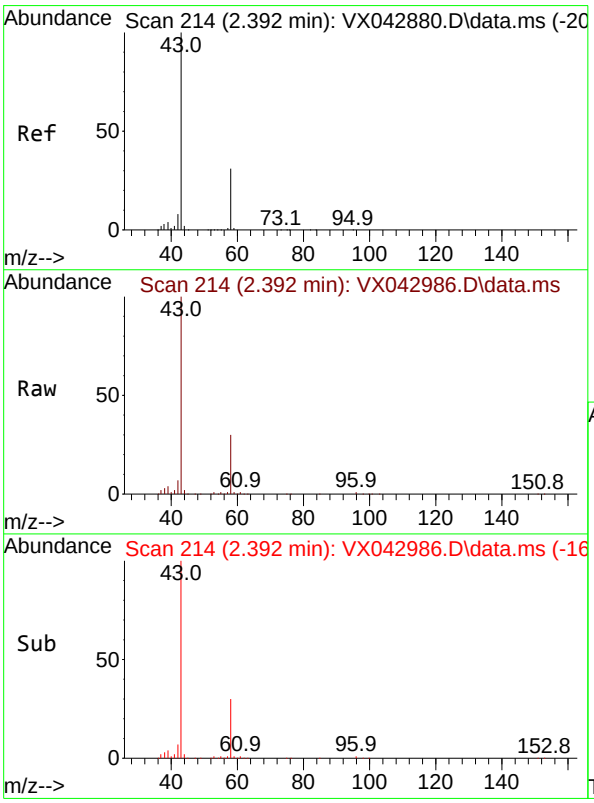
Ion	Ratio	Lower	Upper
53	100		
52	81.8	66.0	99.0
51	34.9	29.8	44.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

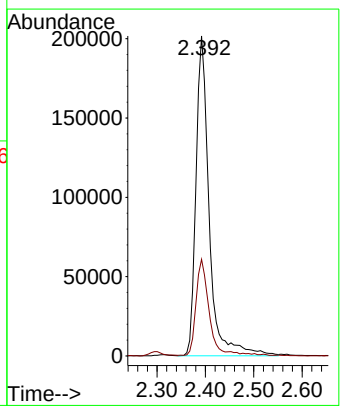


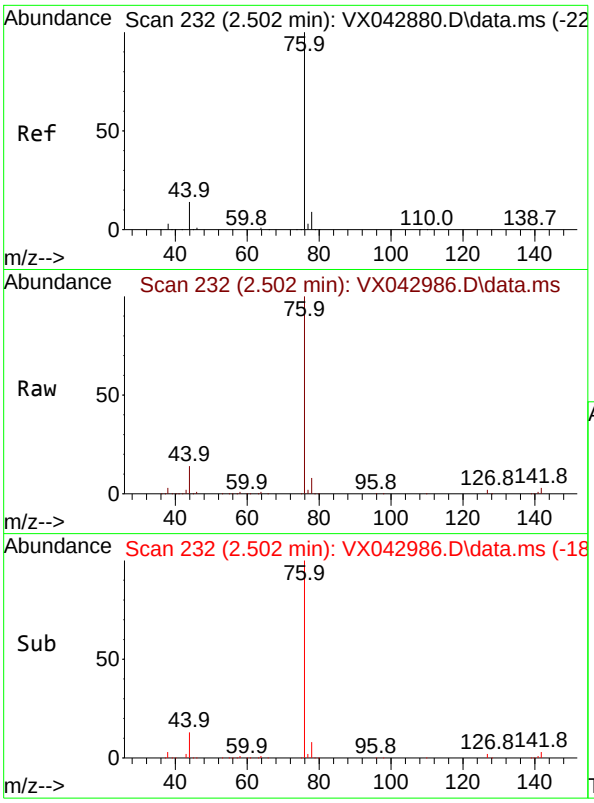


#16
Acetone
Concen: 279.117 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 43 Resp: 382322

Ion	Ratio	Lower	Upper
43	100		
58	30.0	21.9	32.9

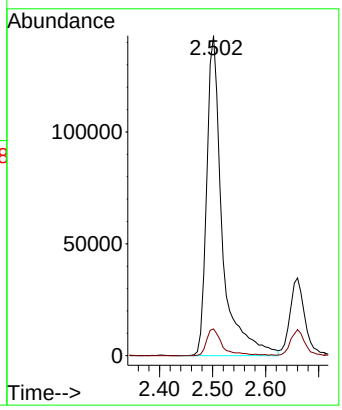




#17
Carbon Disulfide
Concen: 47.141 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 76 Resp: 29086

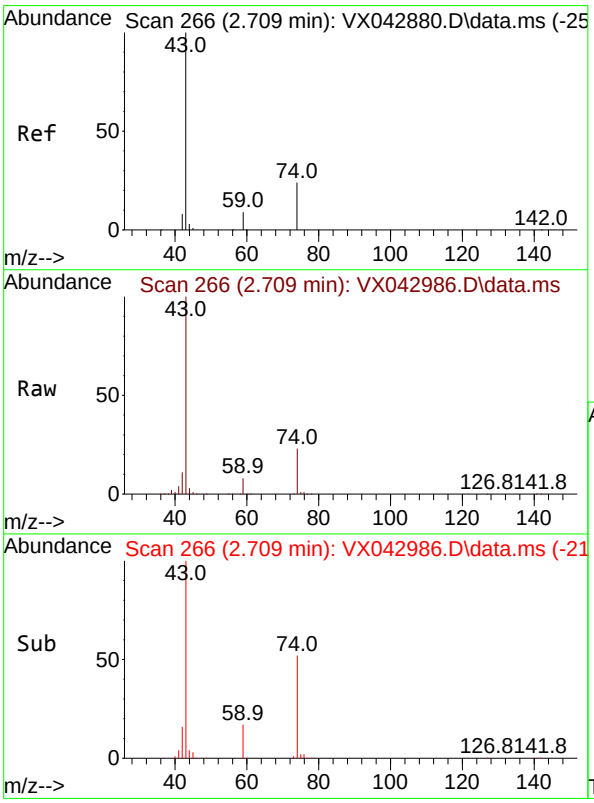
Ion	Ratio	Lower	Upper
76	100		
78	8.4	7.0	10.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

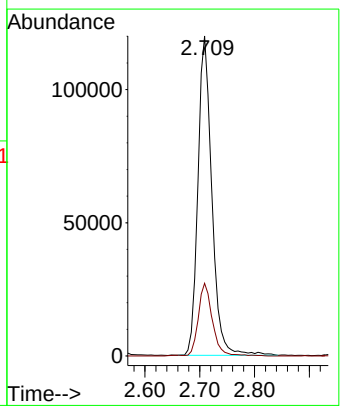
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

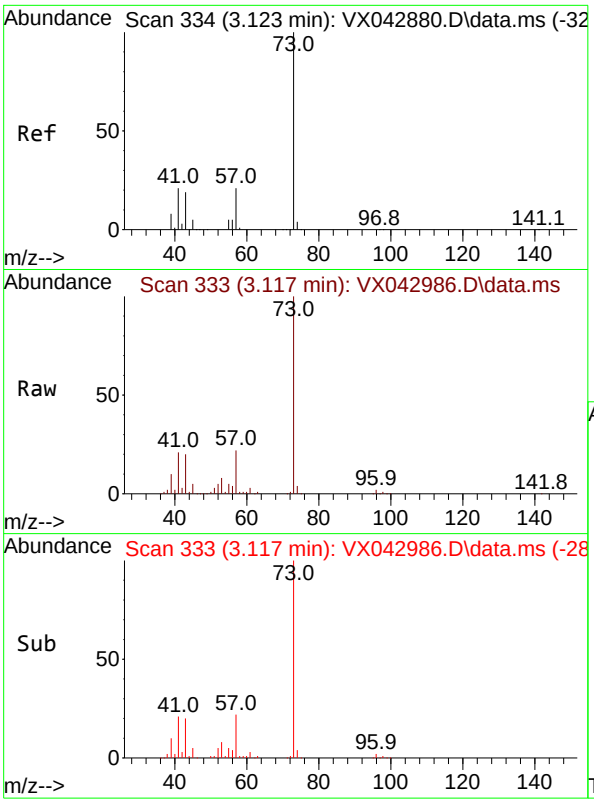


#18
Methyl Acetate
Concen: 48.886 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 43 Resp: 212346

Ion	Ratio	Lower	Upper
43	100		
74	23.0	17.8	26.8

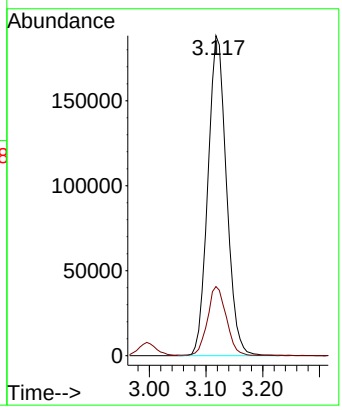




#19
Methyl tert-butyl Ether
Concen: 50.233 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 73 Resp: 42870

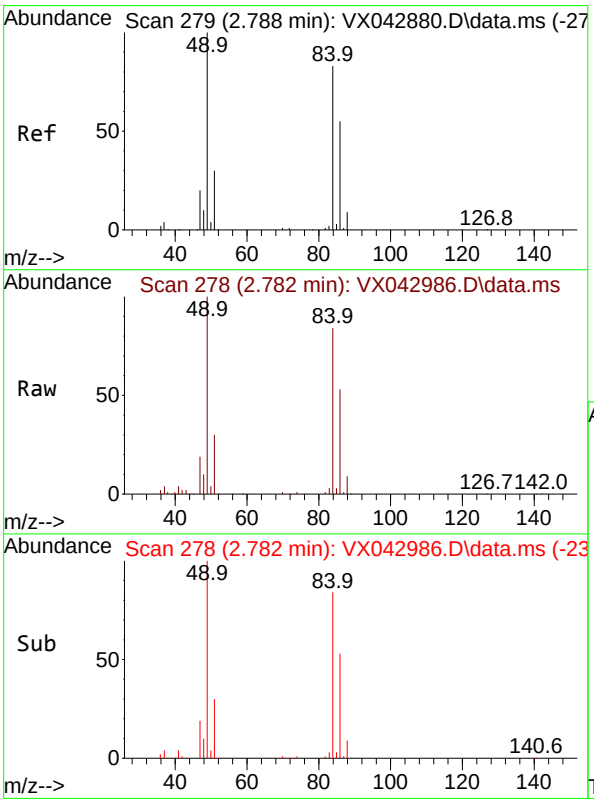
Ion	Ratio	Lower	Upper
73	100		
57	21.6	17.3	25.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

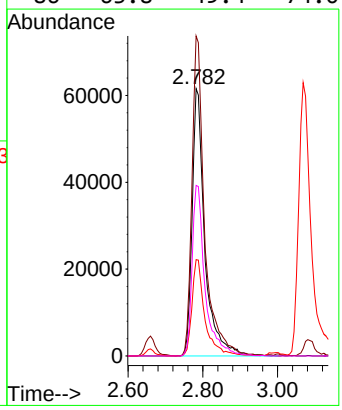
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

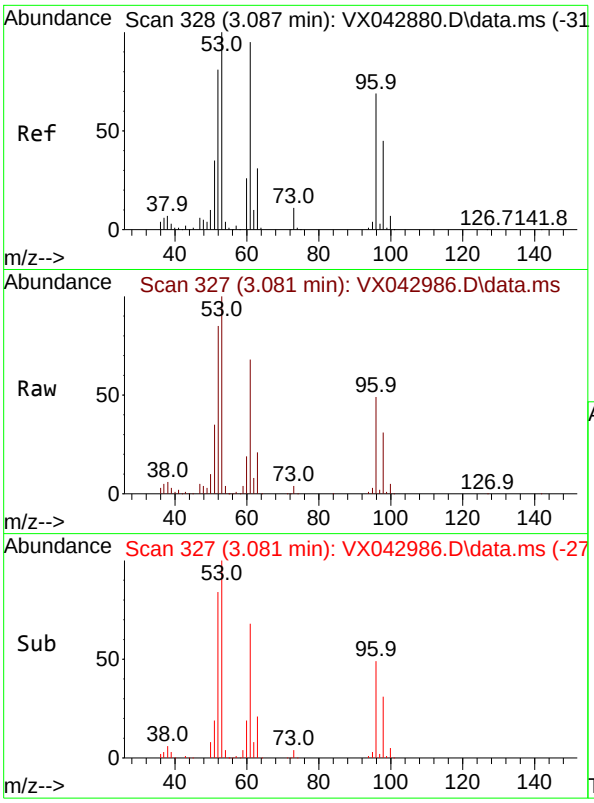


#20
Methylene Chloride
Concen: 51.103 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.006 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 84 Resp: 144697

Ion	Ratio	Lower	Upper
84	100		
49	119.5	103.6	155.4
51	36.0	33.8	50.6
86	63.8	49.4	74.0

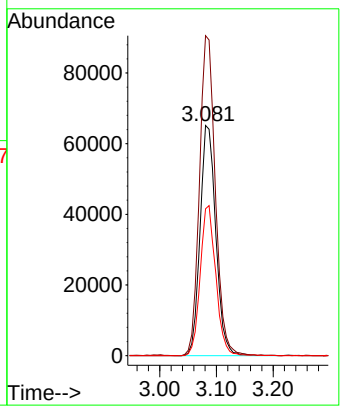




#21
trans-1,2-Dichloroethene
Concen: 49.328 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 96 Resp: 12583

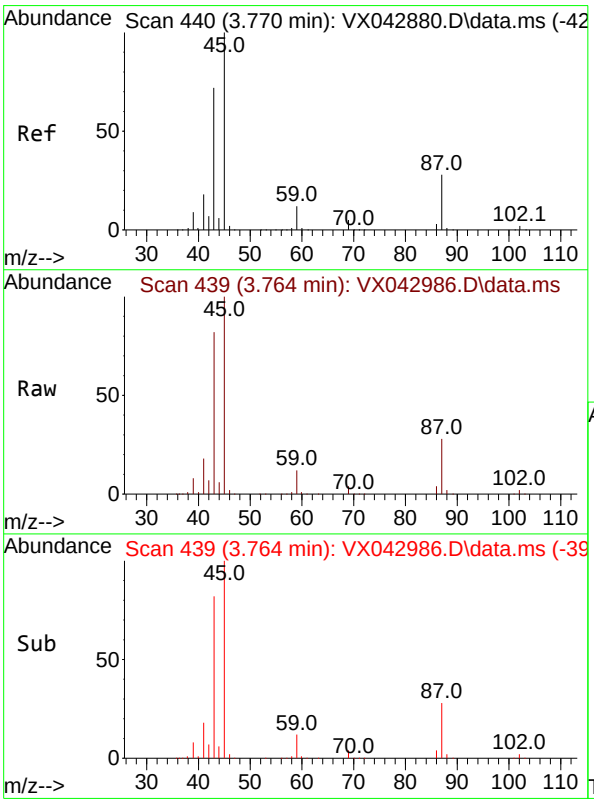
Ion	Ratio	Lower	Upper
96	100		
61	139.0	119.2	178.8
98	63.8	48.7	73.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

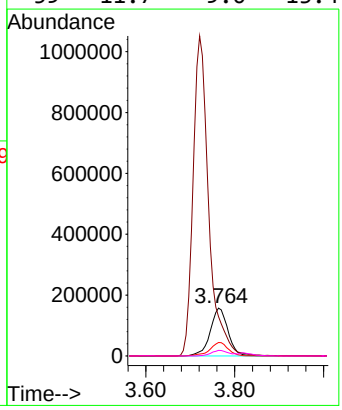
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

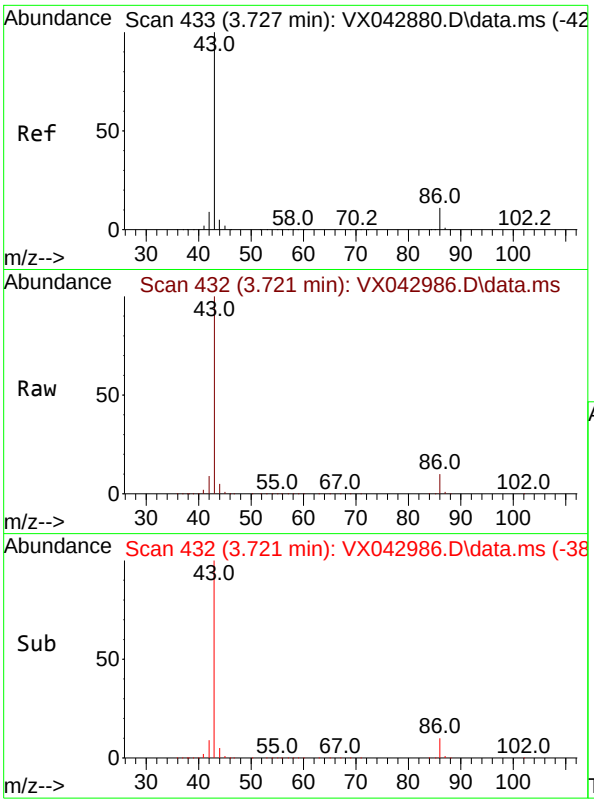


#22
Diisopropyl ether
Concen: 51.527 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.006 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 45 Resp: 433683

Ion	Ratio	Lower	Upper
45	100		
43	82.3	69.7	104.5
87	28.2	20.8	31.2
59	11.7	9.0	13.4





#23
Vinyl Acetate
Concen: 269.596 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

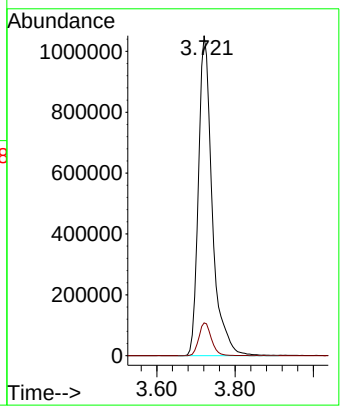
Tgt Ion: 43 Resp: 257529

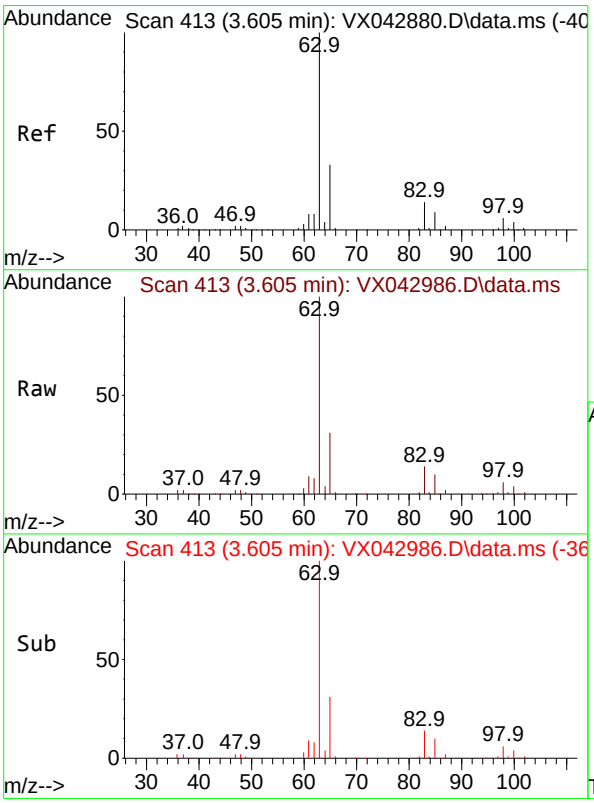
Ion	Ratio	Lower	Upper
43	100		
86	10.3	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

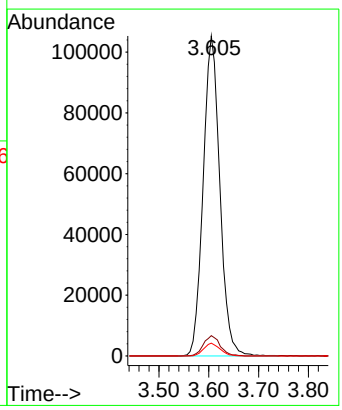


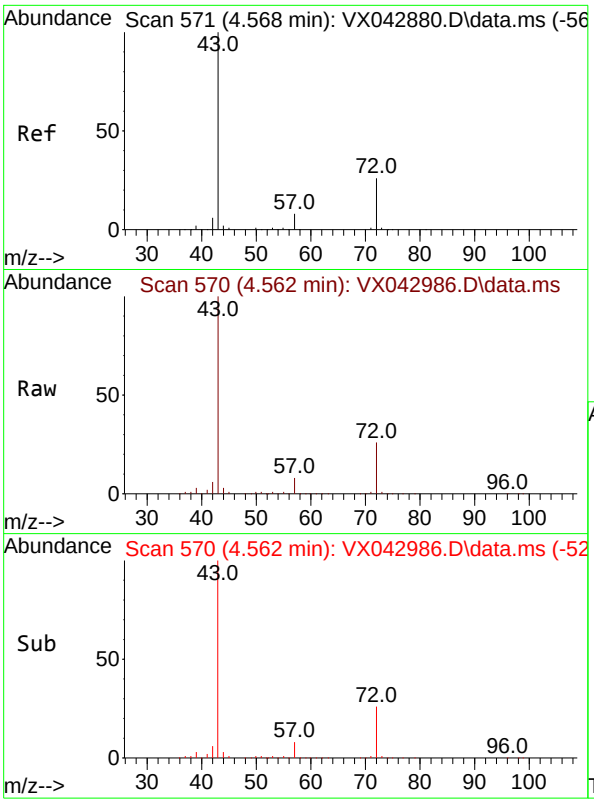


#24
1,1-Dichloroethane
Concen: 50.560 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 63 Resp: 244741

Ion	Ratio	Lower	Upper
63	100		
98	6.3	3.3	9.8
100	4.0	2.1	6.5





#25
2-Butanone
Concen: 267.772 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

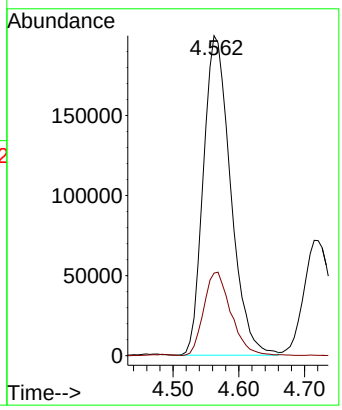
Tgt Ion: 43 Resp: 57600

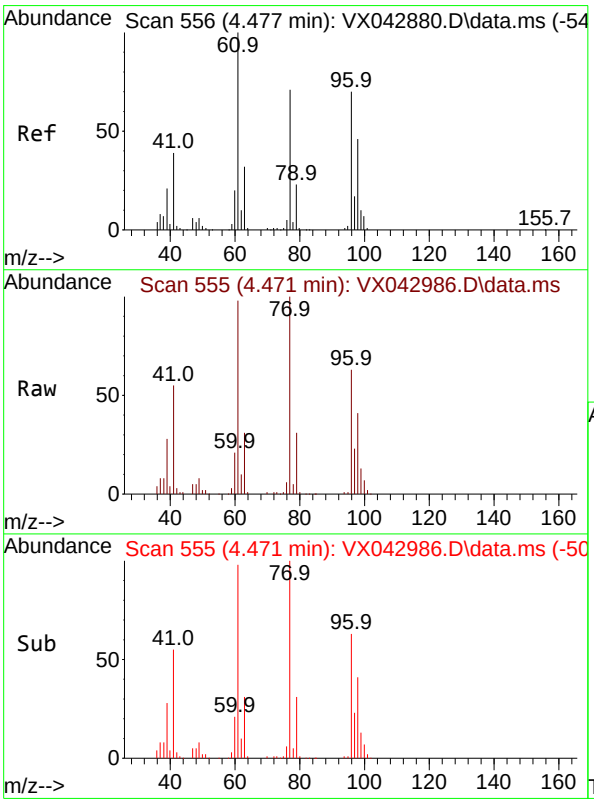
Ion	Ratio	Lower	Upper
43	100		
72	25.7	19.4	29.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

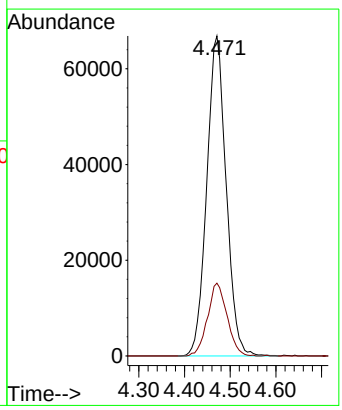


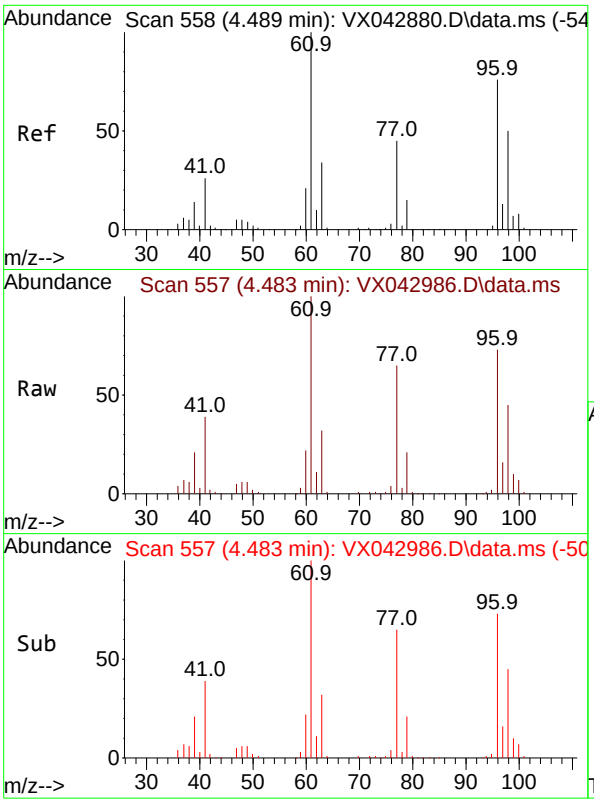


#26
2,2-Dichloropropane
Concen: 66.253 ug/l
RT: 4.471 min Scan# 555
Delta R.T. -0.006 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 77 Resp: 197157

Ion	Ratio	Lower	Upper
77	100		
97	22.9	10.8	32.3





#27
cis-1,2-Dichloroethene
Concen: 50.456 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

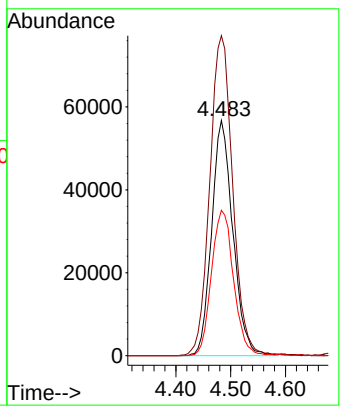
Tgt Ion: 96 Resp: 15264

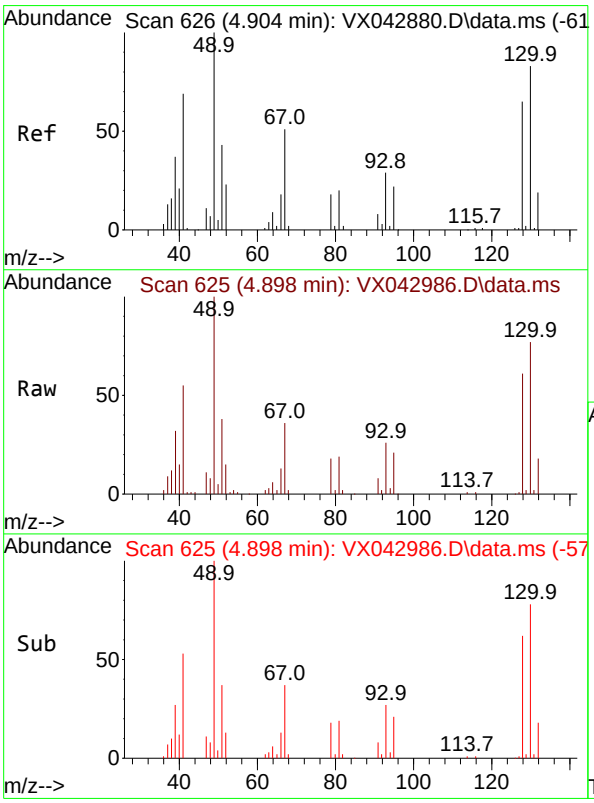
Ion	Ratio	Lower	Upper
96	100		
61	146.7	0.0	312.2
98	64.3	0.0	129.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

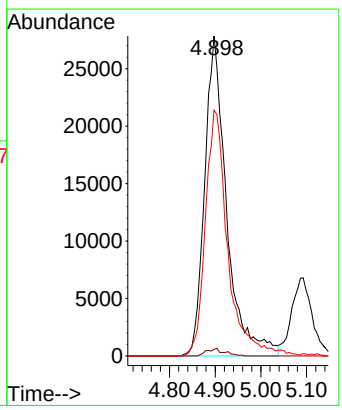


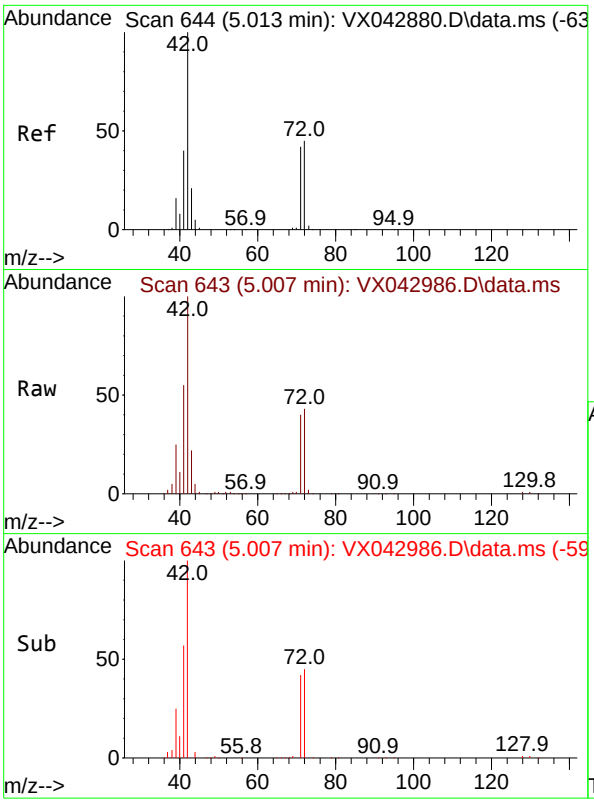


#28
Bromochloromethane
Concen: 49.970 ug/l
RT: 4.898 min Scan# 625
Delta R.T. -0.006 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 49 Resp: 92813

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.8
130	78.2	57.5	86.3





#29
Tetrahydrofuran
Concen: 252.105 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

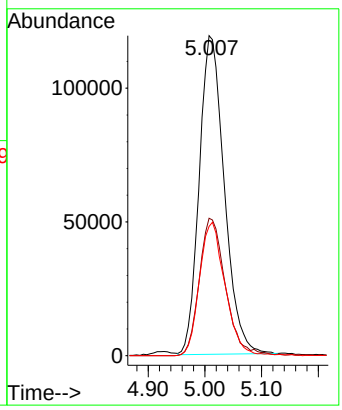
Tgt Ion: 42 Resp: 36645

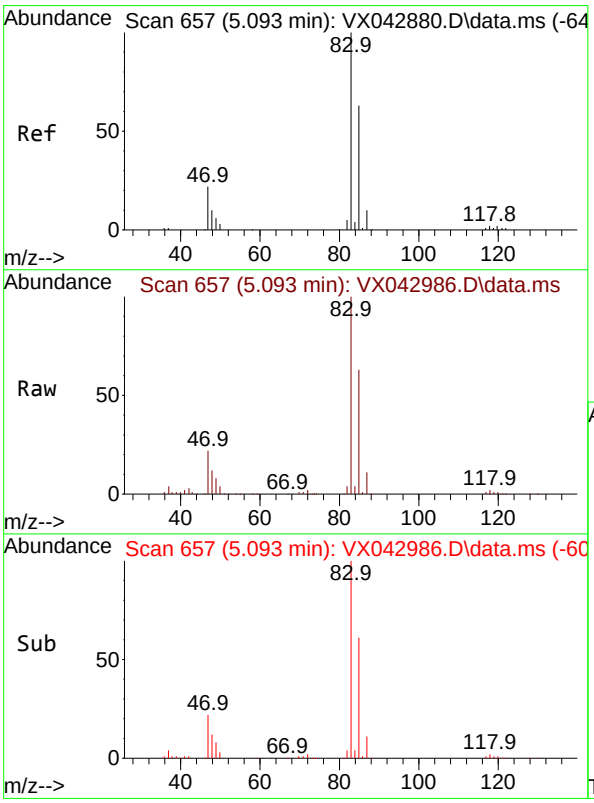
Ion	Ratio	Lower	Upper
42	100		
72	44.9	34.2	51.4
71	42.9	32.2	48.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

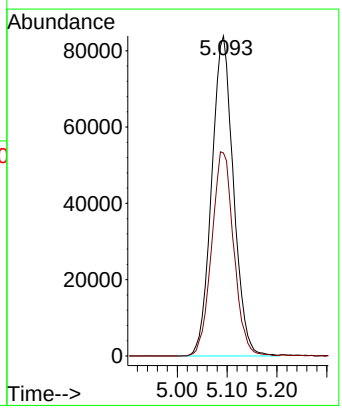


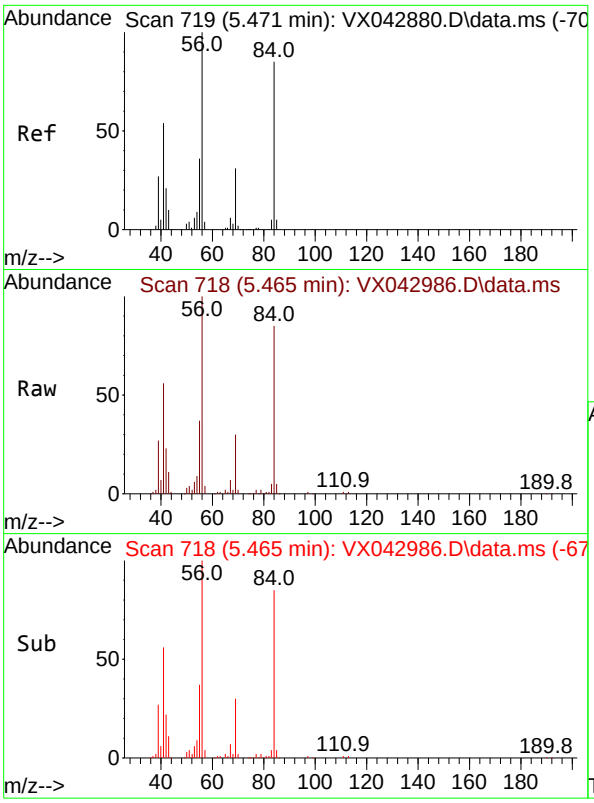


#30
Chloroform
Concen: 50.135 ug/l
RT: 5.093 min Scan# 657
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 83 Resp: 254057

Ion	Ratio	Lower	Upper
83	100		
85	63.5	50.3	75.5





#31
Cyclohexane
Concen: 51.121 ug/l
RT: 5.465 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

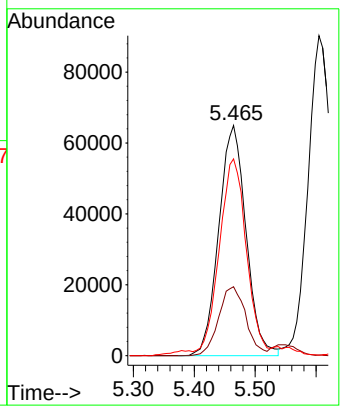
Tgt Ion: 56 Resp: 20200

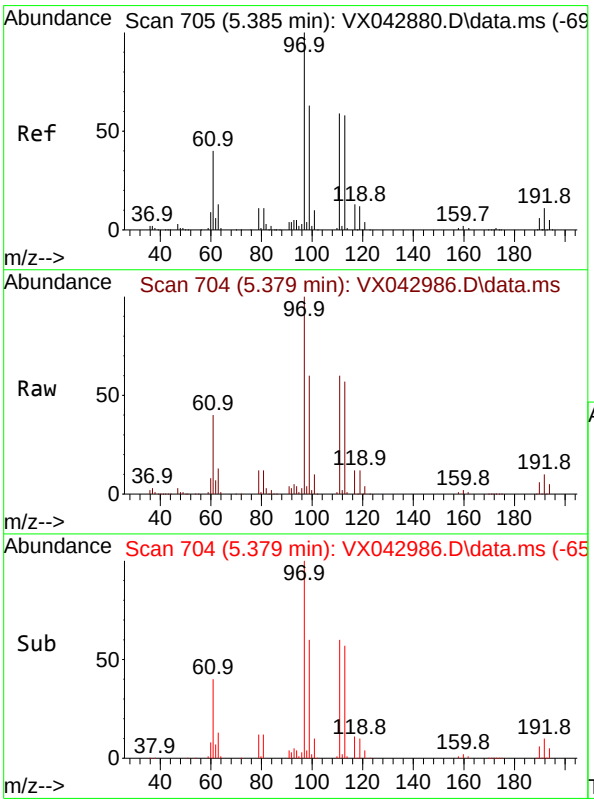
Ion	Ratio	Lower	Upper
56	100		
69	29.9	23.4	35.2
84	83.7	65.9	98.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

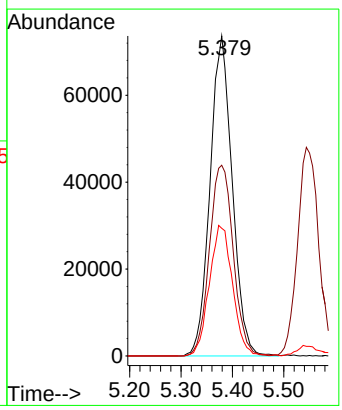


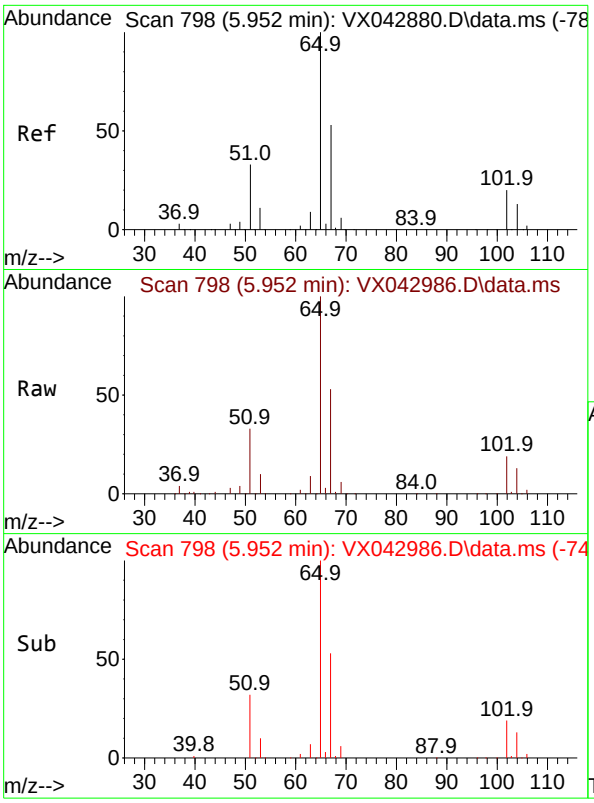


#32
1,1,1-Trichloroethane
Concen: 49.547 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 97 Resp: 221028

Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.1	76.7
61	42.8	36.4	54.6





#33
1,2-Dichloroethane-d4
Concen: 52.192 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

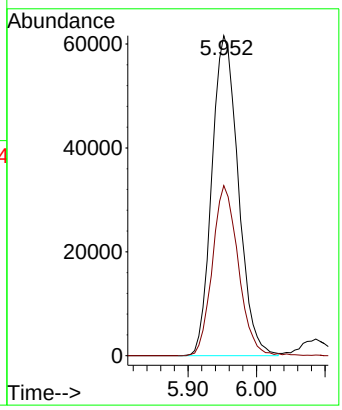
Tgt Ion: 65 Resp: 16482

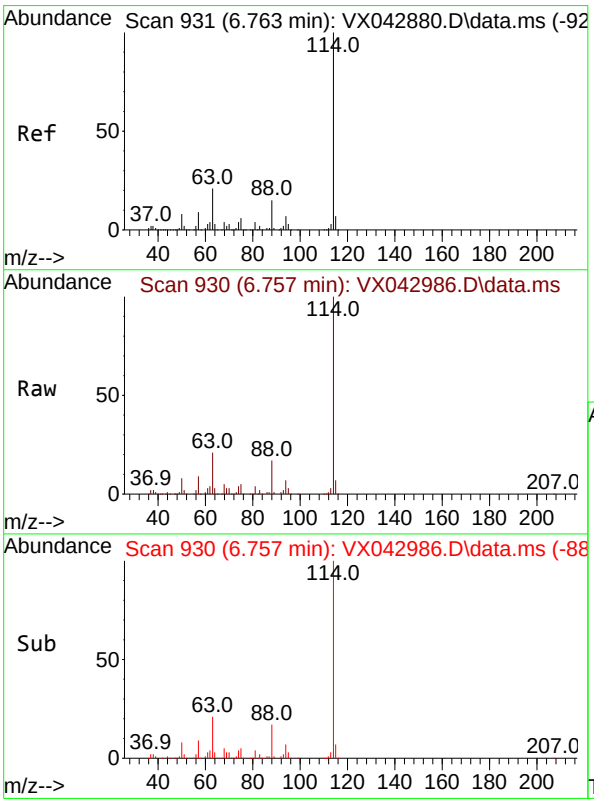
Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	100.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

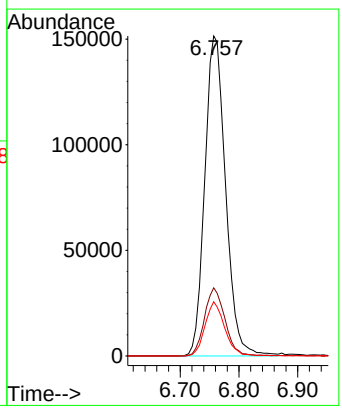


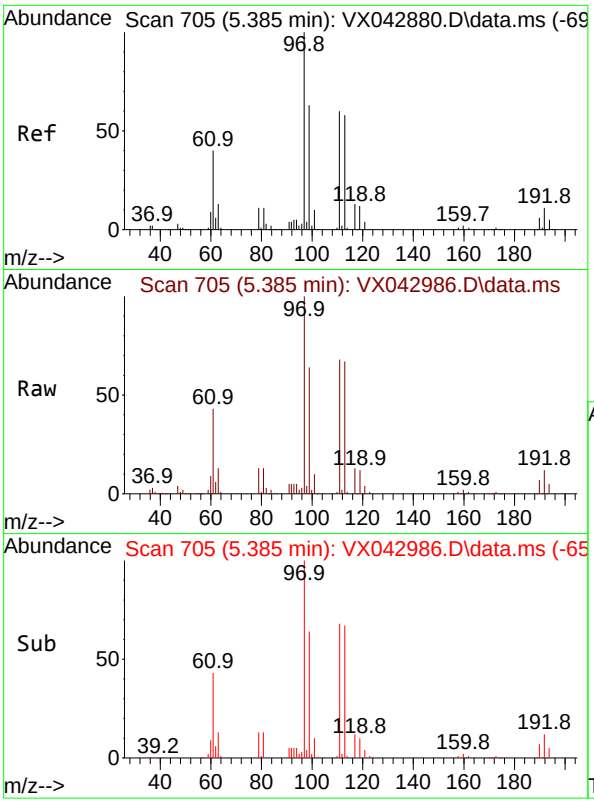


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.006 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion:114 Resp: 373855

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	45.0
88	16.9	0.0	36.6

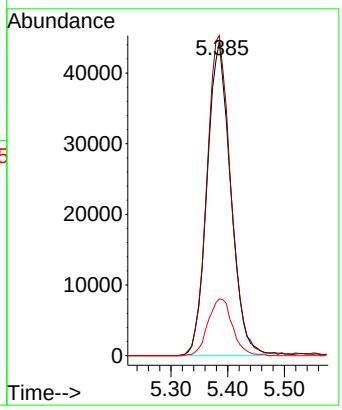




#35
Dibromofluoromethane
Concen: 52.589 ug/l
RT: 5.385 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion:113 Resp: 12855

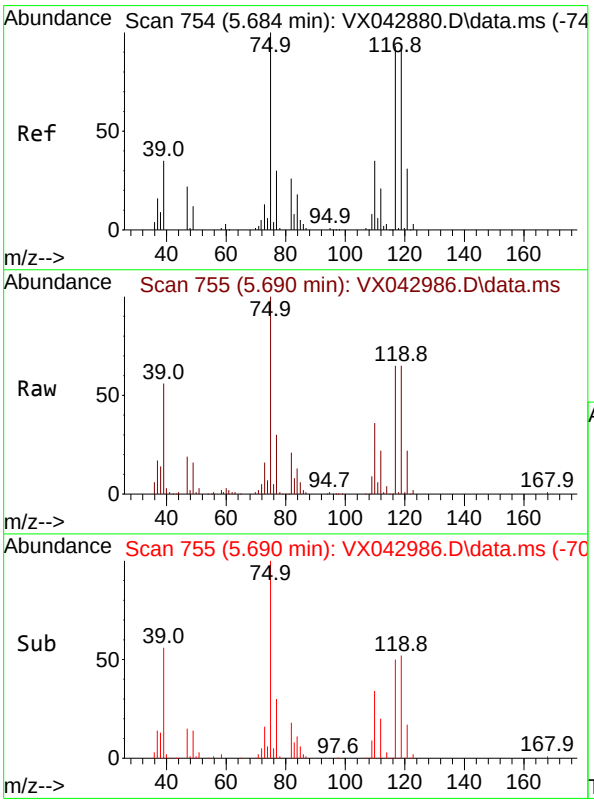
Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.9	124.3
192	18.8	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

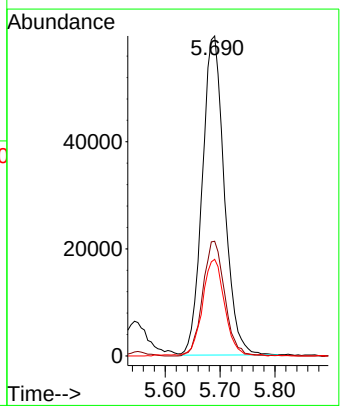
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

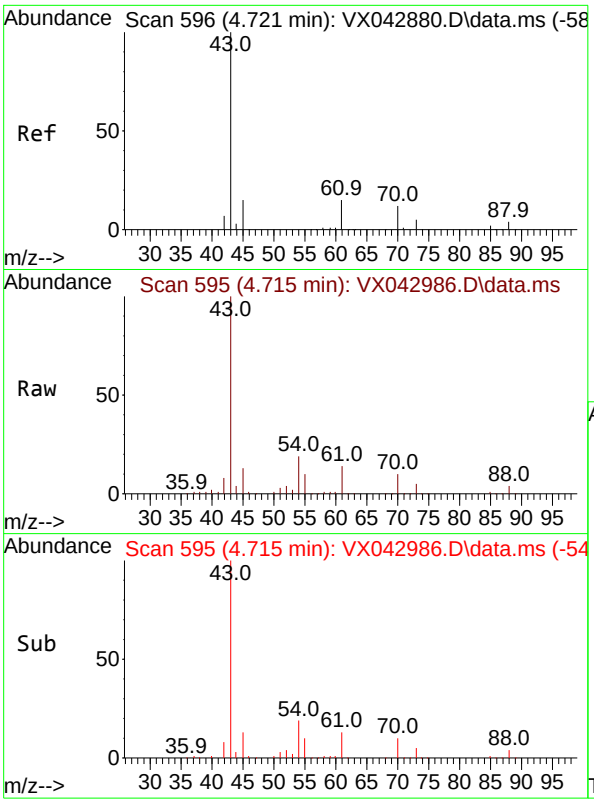


#36
1,1-Dichloropropene
Concen: 50.164 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.006 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 75 Resp: 166253

Ion	Ratio	Lower	Upper
75	100		
110	36.0	17.0	50.9
77	29.6	24.7	37.1

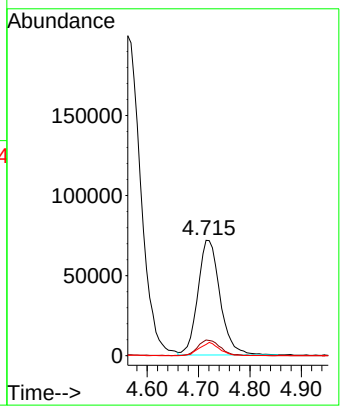




#37
Ethyl Acetate
Concen: 51.866 ug/l
RT: 4.715 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 43 Resp: 21506

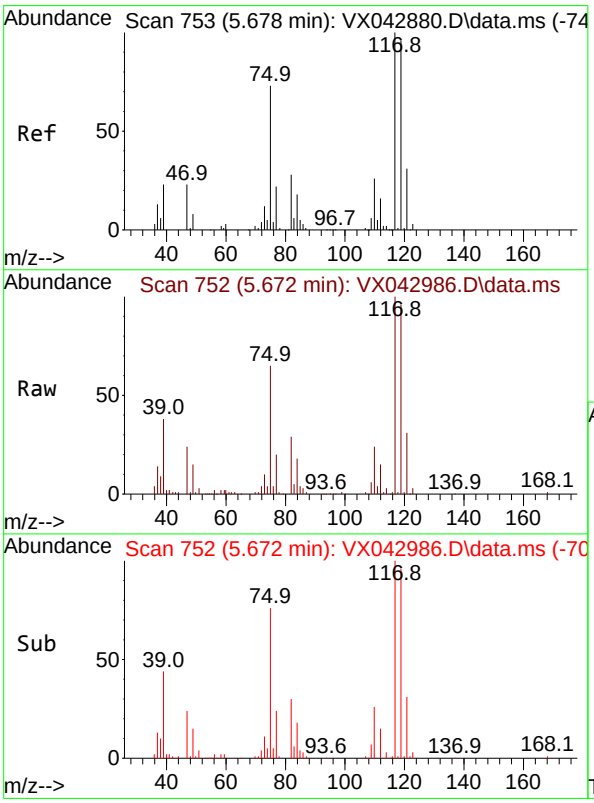
Ion	Ratio	Lower	Upper
43	100		
61	14.1	10.6	16.0
70	10.5	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

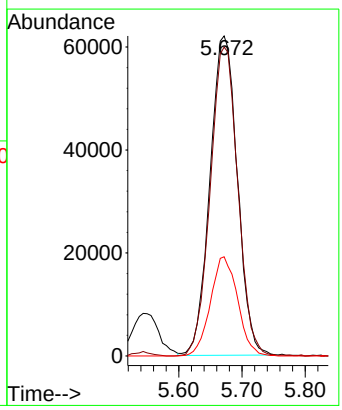
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

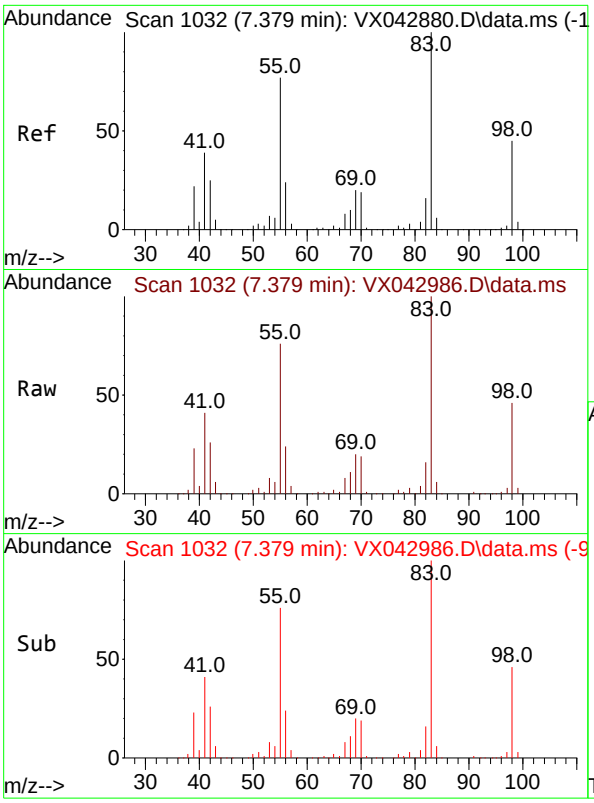


#38
Carbon Tetrachloride
Concen: 49.911 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.006 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion:117 Resp: 186726

Ion	Ratio	Lower	Upper
117	100		
119	96.7	78.2	117.2
121	31.1	24.4	36.6

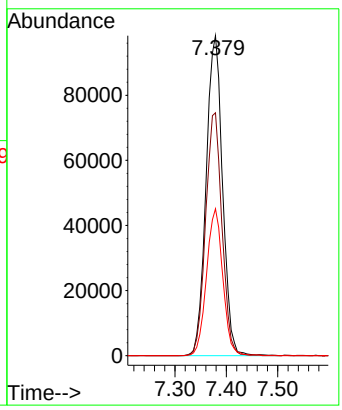




#39
Methylcyclohexane
Concen: 55.283 ug/l
RT: 7.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 83 Resp: 21780

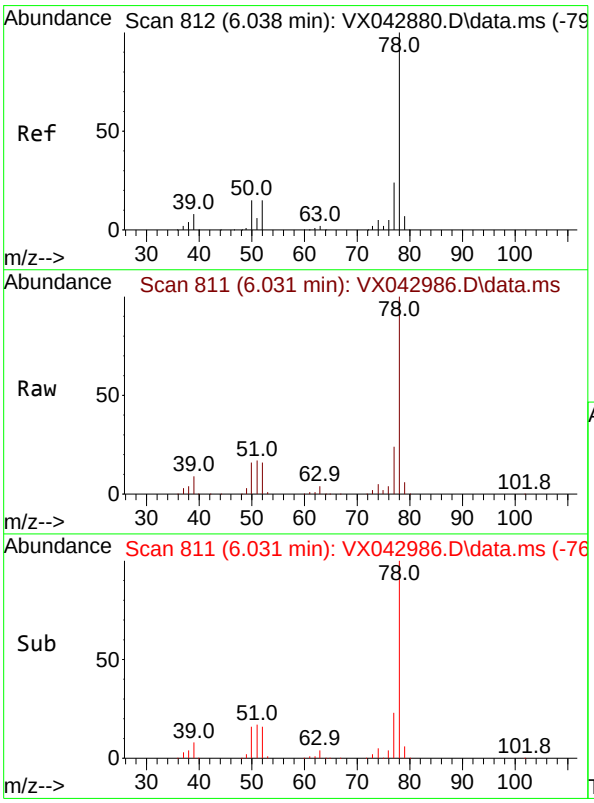
Ion	Ratio	Lower	Upper
83	100		
55	75.9	64.6	97.0
98	45.9	36.7	55.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

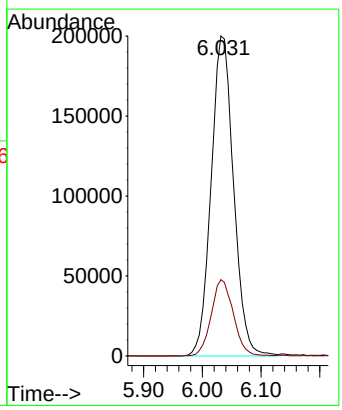
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

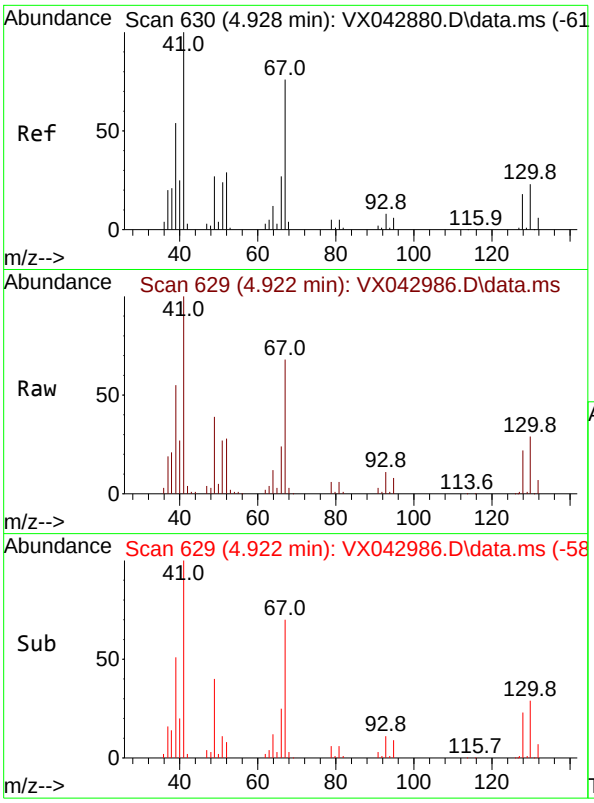


#40
Benzene
Concen: 51.701 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.006 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 78 Resp: 531784

Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.3	28.9

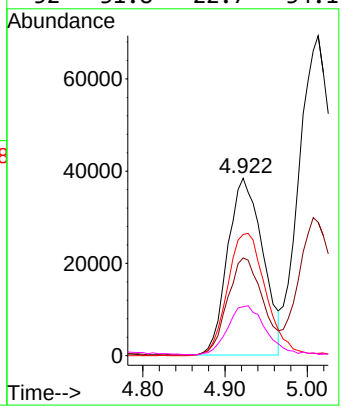




#41
Methacrylonitrile
Concen: 53.435 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 41 Resp: 11412

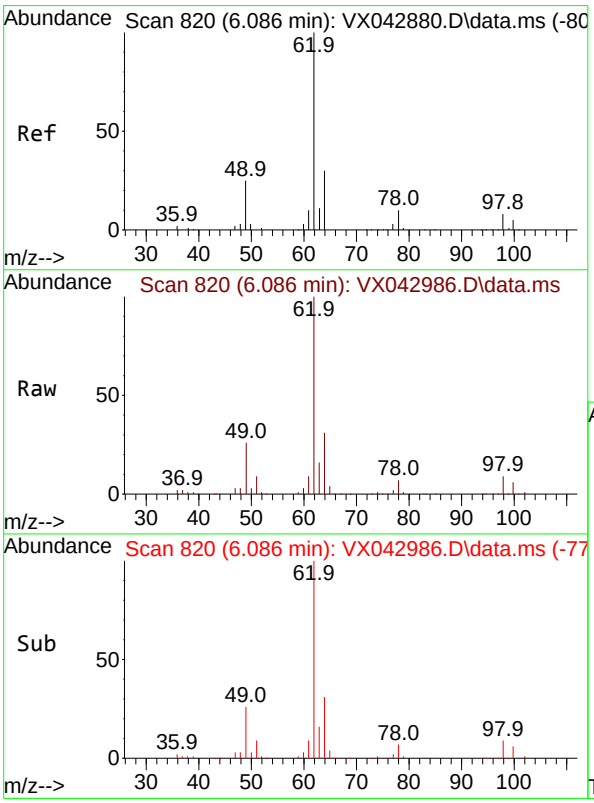
Ion	Ratio	Lower	Upper
41	100		
39	55.0	45.2	67.8
67	75.7	52.6	78.8
52	31.8	22.7	34.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

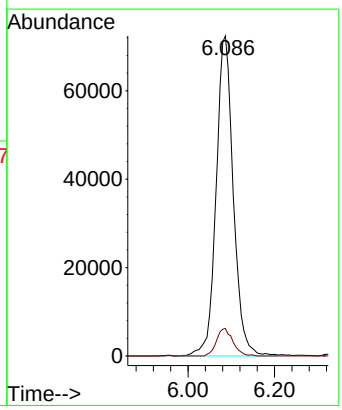
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

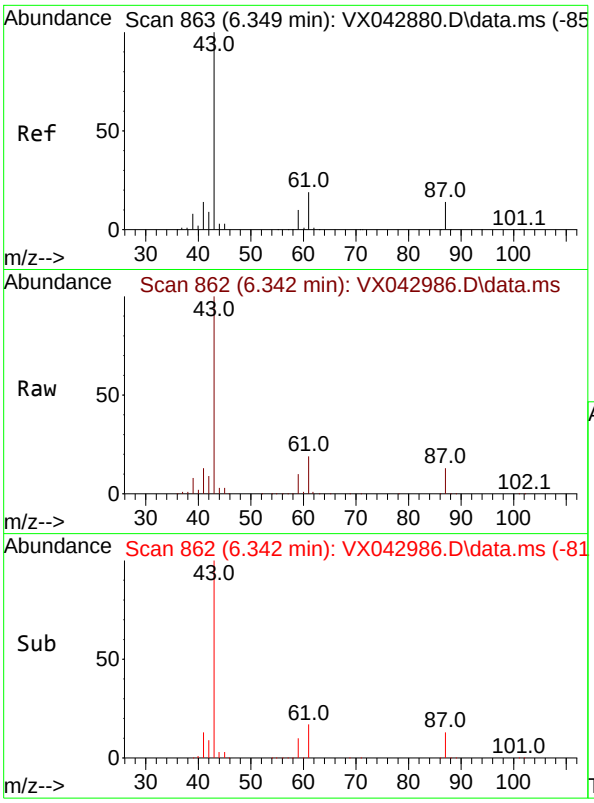


#42
1,2-Dichloroethane
Concen: 53.387 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 62 Resp: 199737

Ion	Ratio	Lower	Upper
62	100		
98	8.2	0.0	16.0





#43
Isopropyl Acetate
Concen: 54.912 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

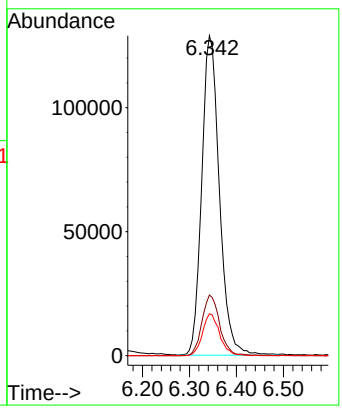
Tgt Ion: 43 Resp: 33674

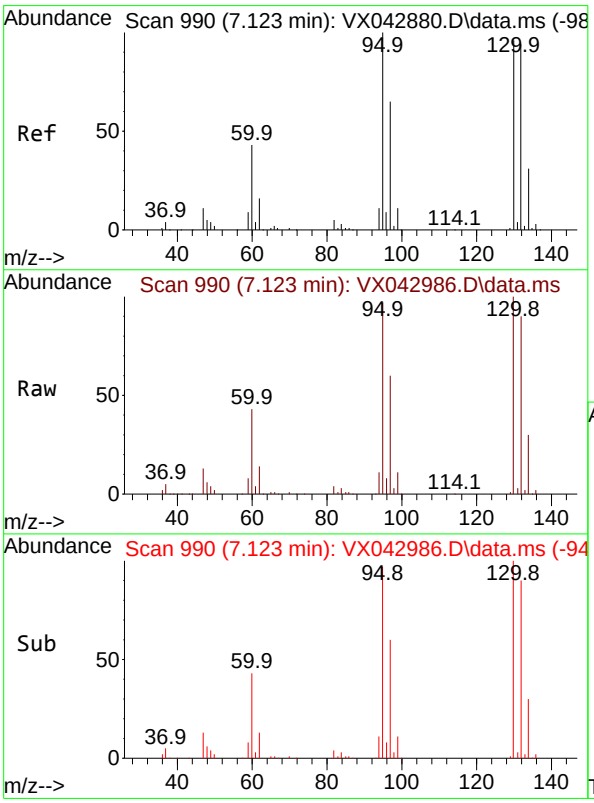
Ion	Ratio	Lower	Upper
43	100		
61	19.0	15.2	22.8
87	12.7	9.8	14.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

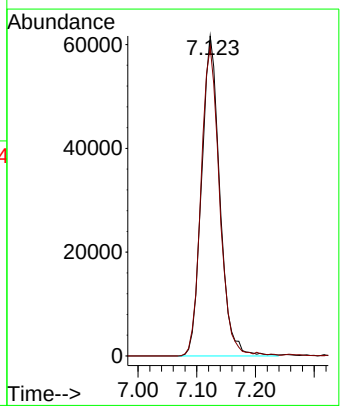


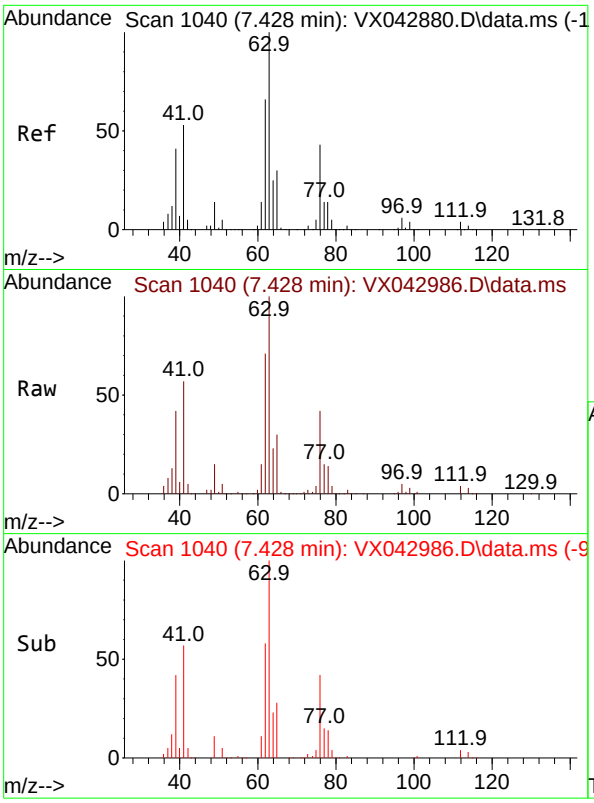


#44
Trichloroethene
Concen: 51.433 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion:130 Resp: 132929

Ion	Ratio	Lower	Upper
130	100		
95	96.6	0.0	204.4

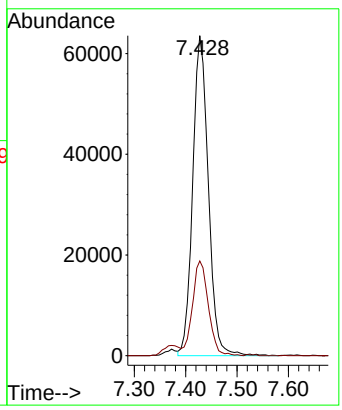




#45
1,2-Dichloropropane
Concen: 51.487 ug/l
RT: 7.428 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 63 Resp: 13434

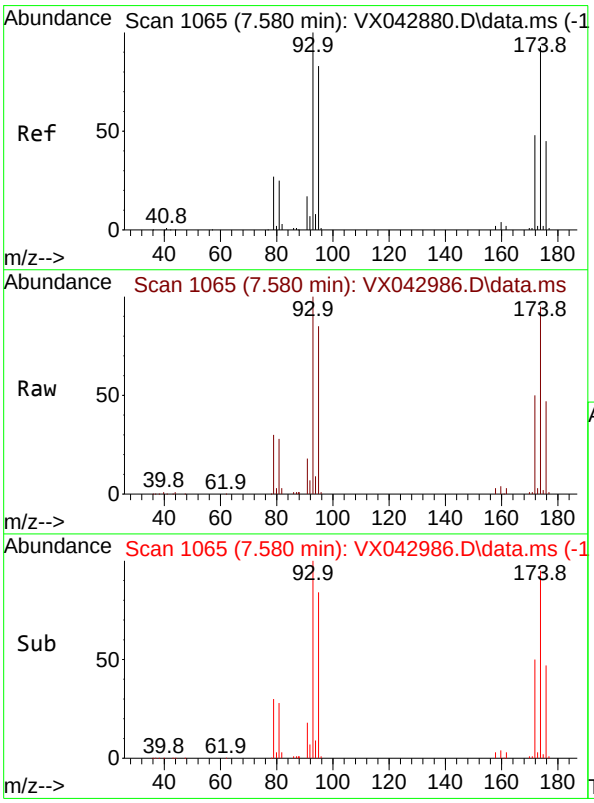
Ion	Ratio	Lower	Upper
63	100		
65	29.6	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

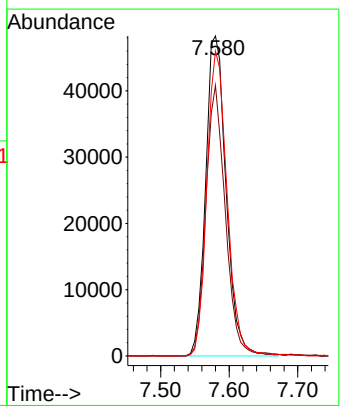
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

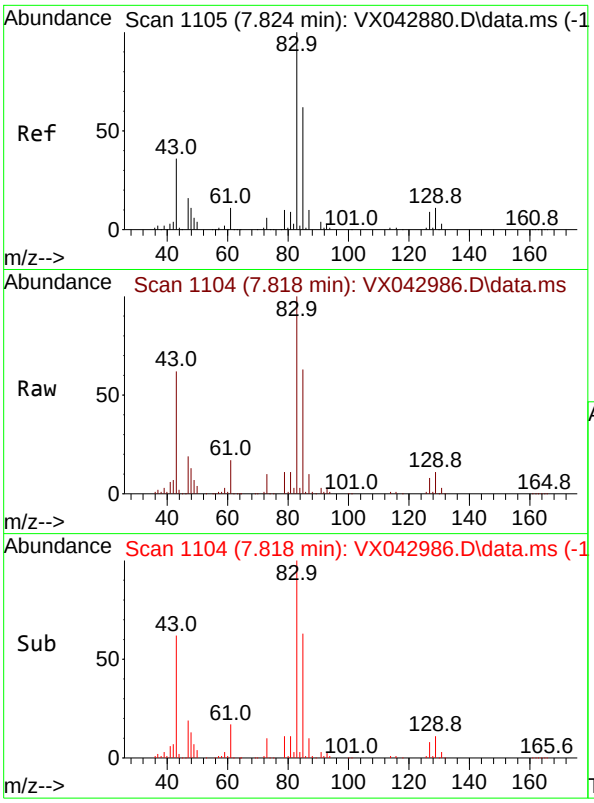


#46
Dibromomethane
Concen: 52.429 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 93 Resp: 100472

Ion	Ratio	Lower	Upper
93	100		
95	80.0	66.6	100.0
174	93.8	69.4	104.0

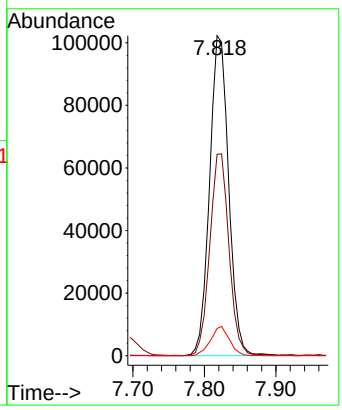




#47
Bromodichloromethane
Concen: 53.233 ug/l
RT: 7.818 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 83 Resp: 18950

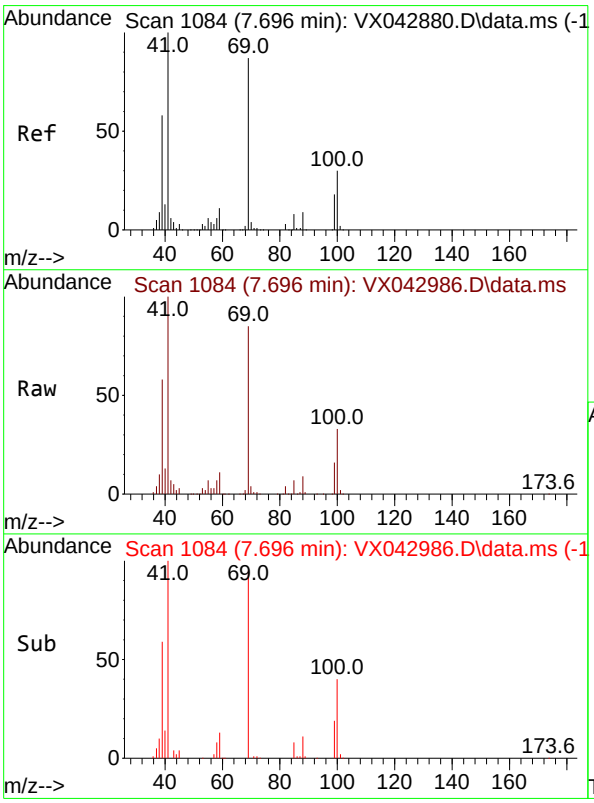
Ion	Ratio	Lower	Upper
83	100		
85	62.9	49.8	74.6
127	8.5	7.1	10.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

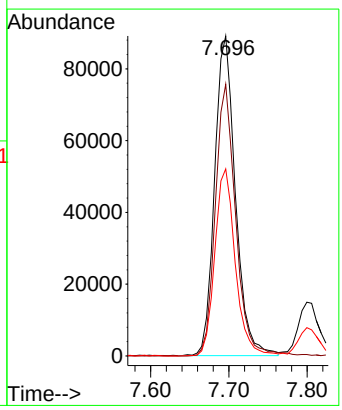
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

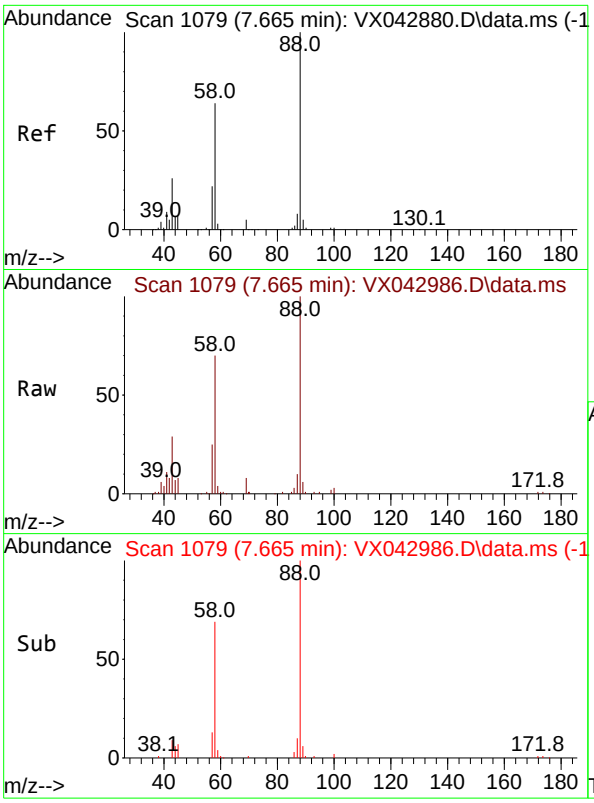


#48
Methyl methacrylate
Concen: 55.909 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 41 Resp: 164404

Ion	Ratio	Lower	Upper
41	100		
69	83.6	59.2	88.8
39	57.9	47.7	71.5

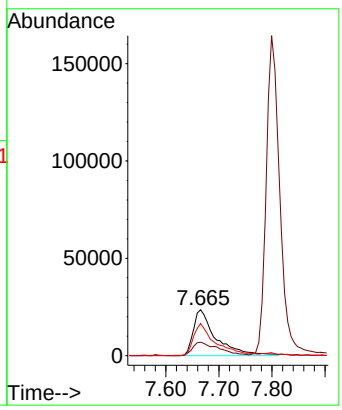




#49
1,4-Dioxane
Concen: 1066.512 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 88 Resp: 6961

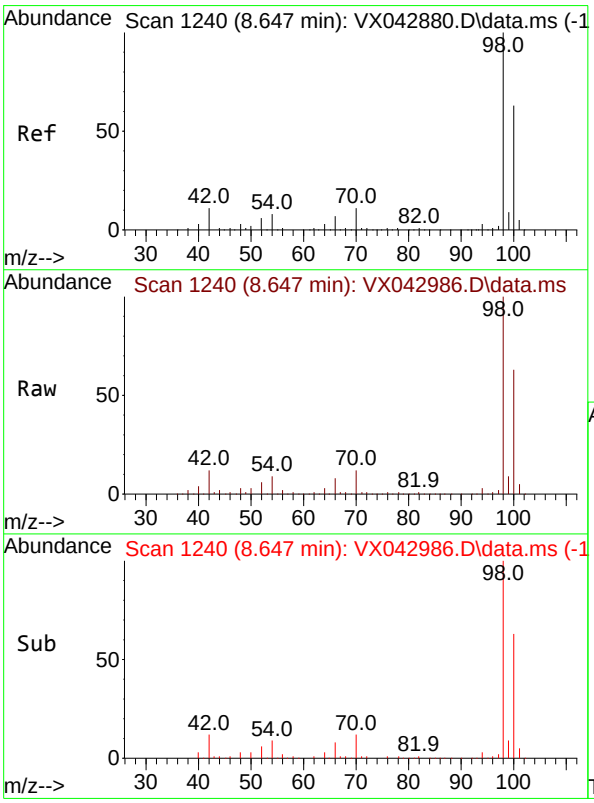
Ion	Ratio	Lower	Upper
88	100		
43	34.5	0.0	0.0
58	67.6	60.1	90.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

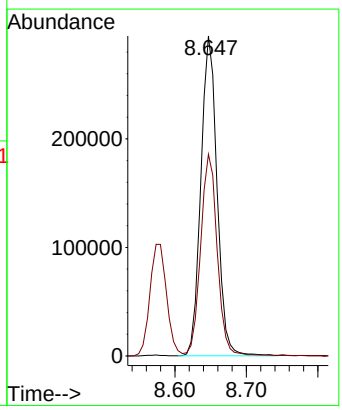
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

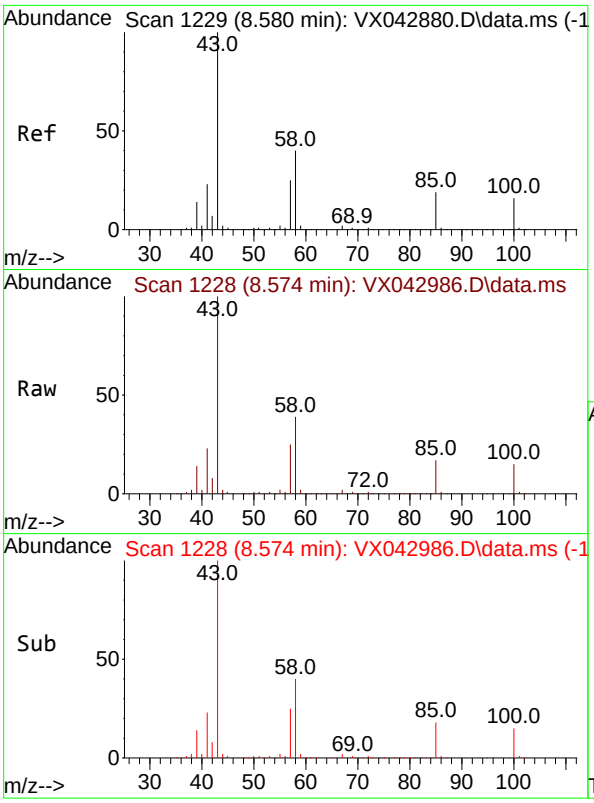


#50
Toluene-d8
Concen: 53.339 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 98 Resp: 462867

Ion	Ratio	Lower	Upper
98	100		
100	64.5	53.1	79.7

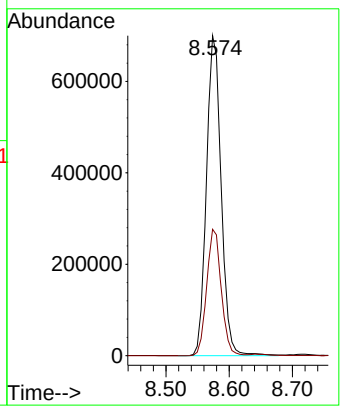




#51
4-Methyl-2-Pentanone
Concen: 275.626 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 43 Resp: 113220

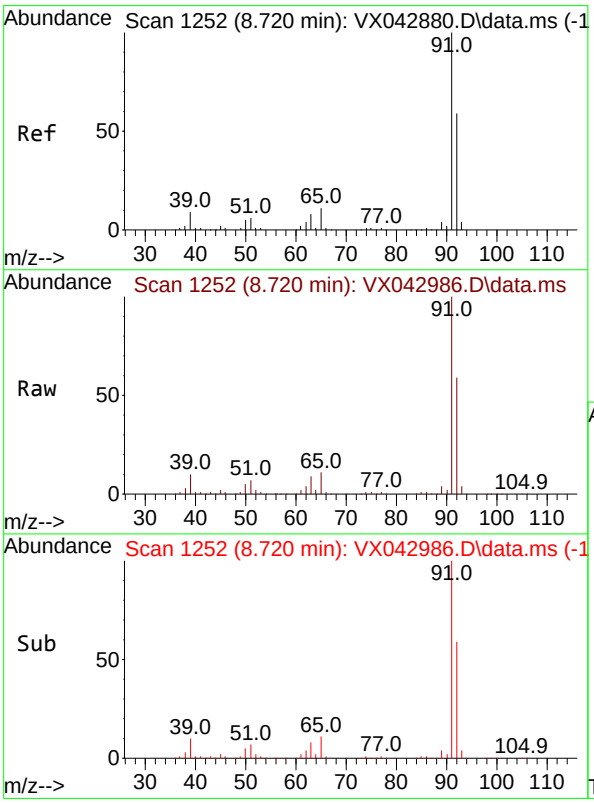
Ion	Ratio	Lower	Upper
43	100		
58	39.1	30.4	45.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

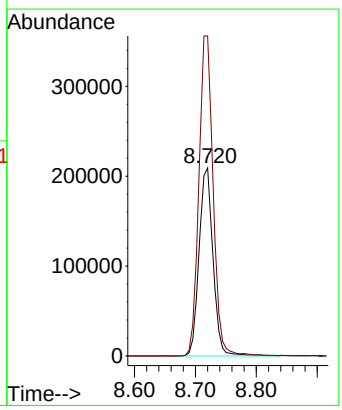
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

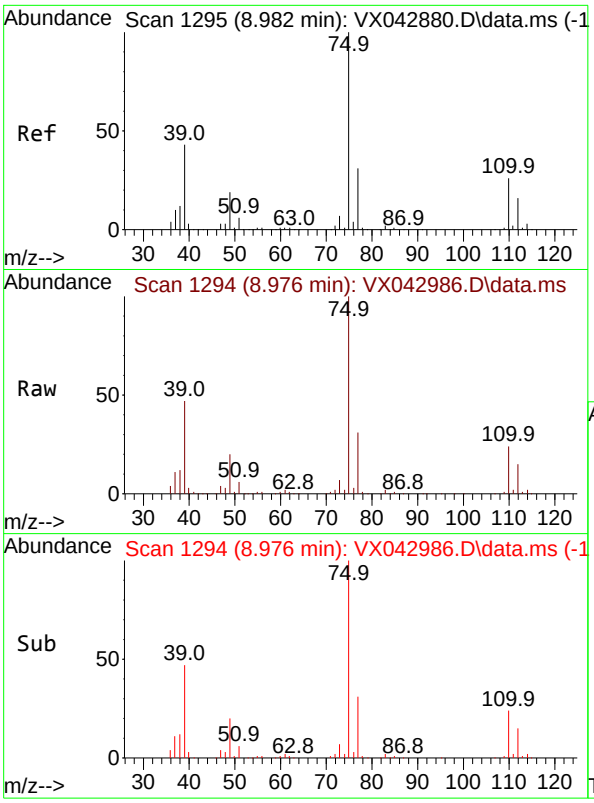


#52
Toluene
Concen: 53.437 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 92 Resp: 333403

Ion	Ratio	Lower	Upper
92	100		
91	174.5	134.2	201.2

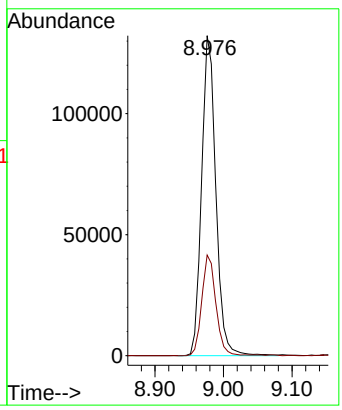




#53
t-1,3-Dichloropropene
Concen: 58.102 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 75 Resp: 19120

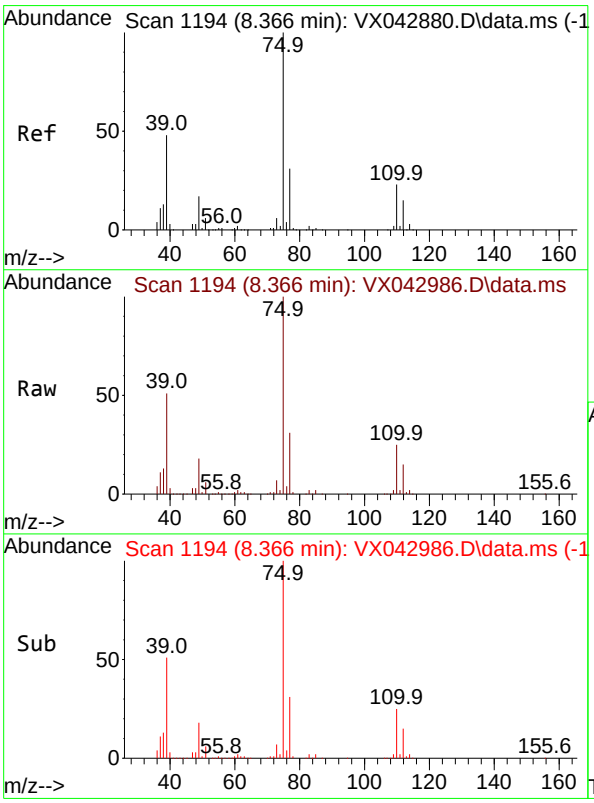
Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

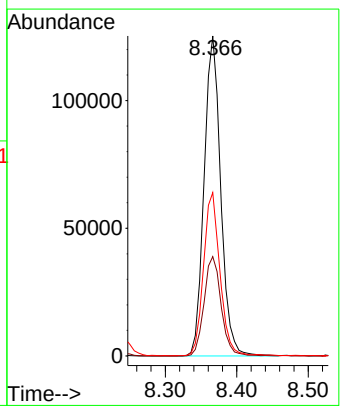
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

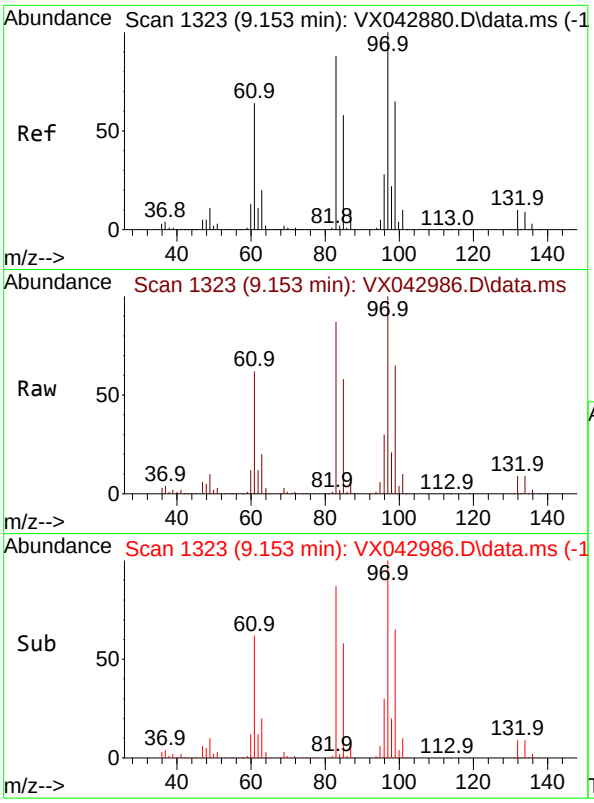


#54
cis-1,3-Dichloropropene
Concen: 55.752 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 75 Resp: 202619

Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.3	37.9
39	50.9	46.7	70.1

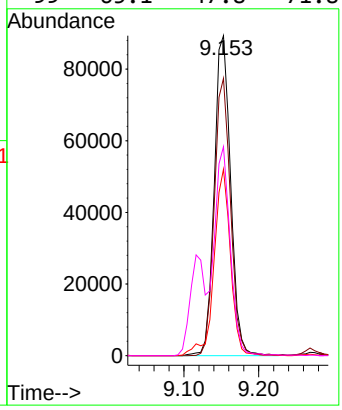




#55
1,1,2-Trichloroethane
Concen: 53.767 ug/l
RT: 9.153 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 97 Resp: 13637

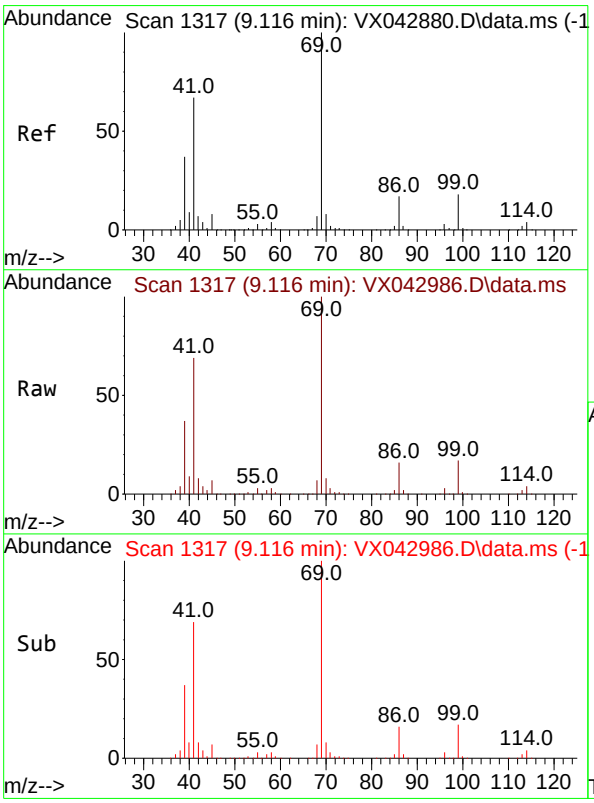
Ion	Ratio	Lower	Upper
97	100		
83	86.6	65.8	98.8
85	58.2	41.6	62.4
99	65.1	47.8	71.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

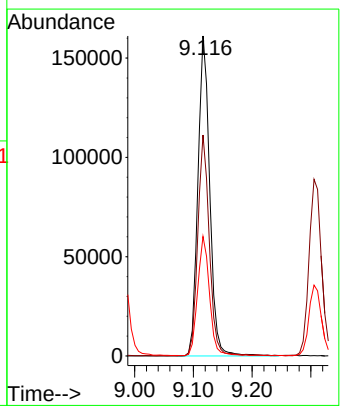
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

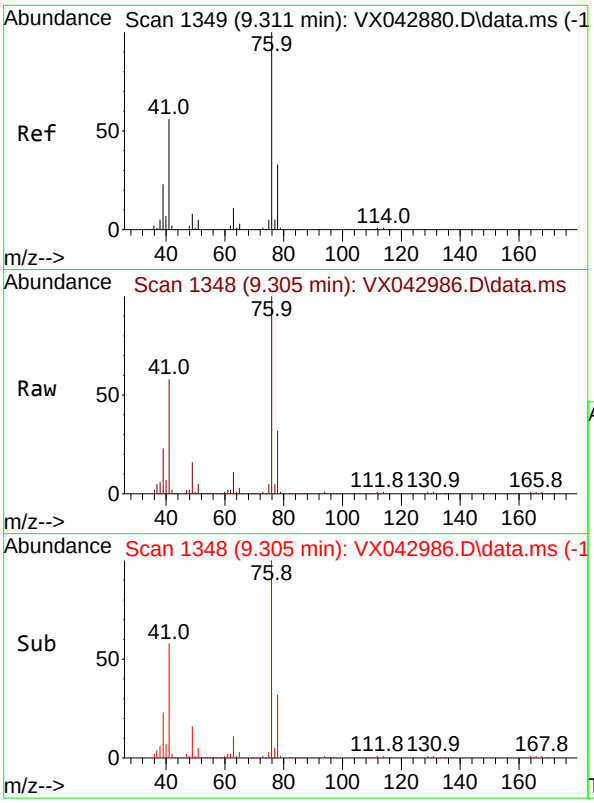


#56
Ethyl methacrylate
Concen: 55.374 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 69 Resp: 226008

Ion	Ratio	Lower	Upper
69	100		
41	67.4	56.8	85.2
39	37.1	32.0	48.0





#57
1,3-Dichloropropane
Concen: 53.258 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

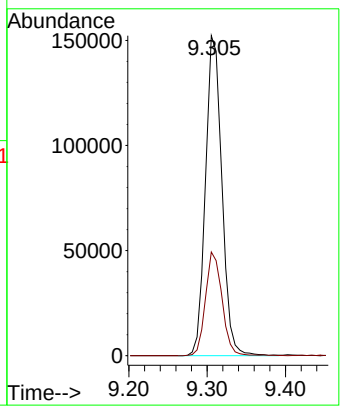
Tgt Ion: 76 Resp: 22128

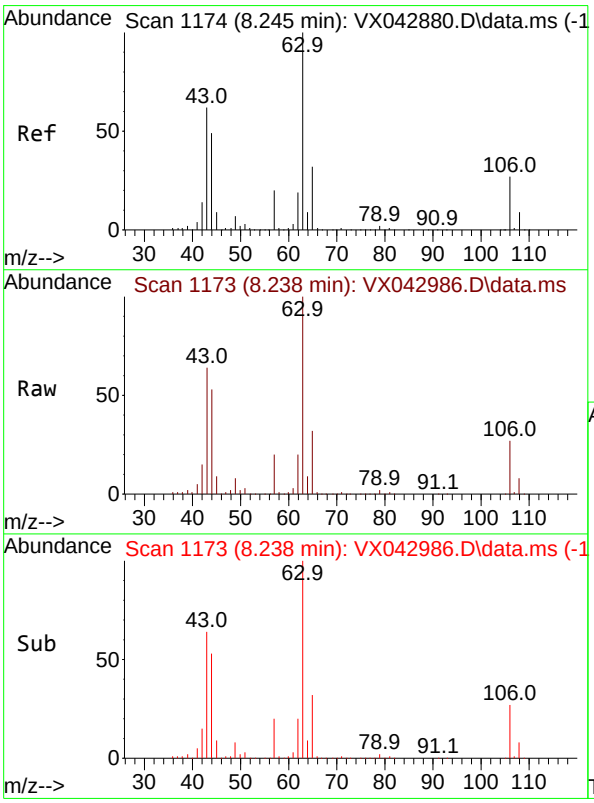
Ion	Ratio	Lower	Upper
76	100		
78	32.7	26.1	39.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

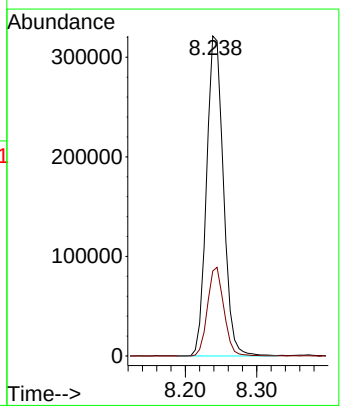


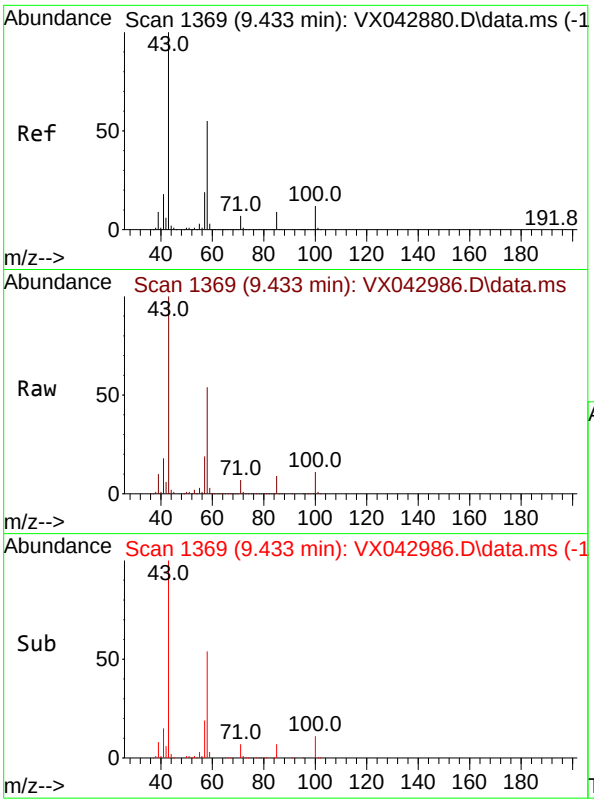


#58
2-Chloroethyl Vinyl ether
Concen: 273.208 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 63 Resp: 525562

Ion	Ratio	Lower	Upper
63	100		
106	26.9	22.5	33.7





#59
2-Hexanone
Concen: 279.086 ug/l
RT: 9.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

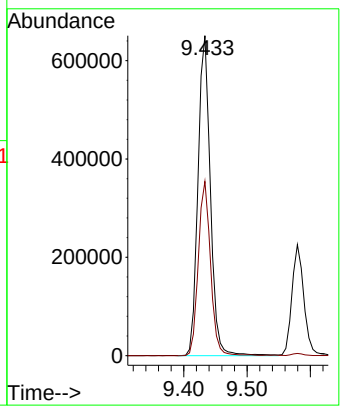
Tgt Ion: 43 Resp: 88832

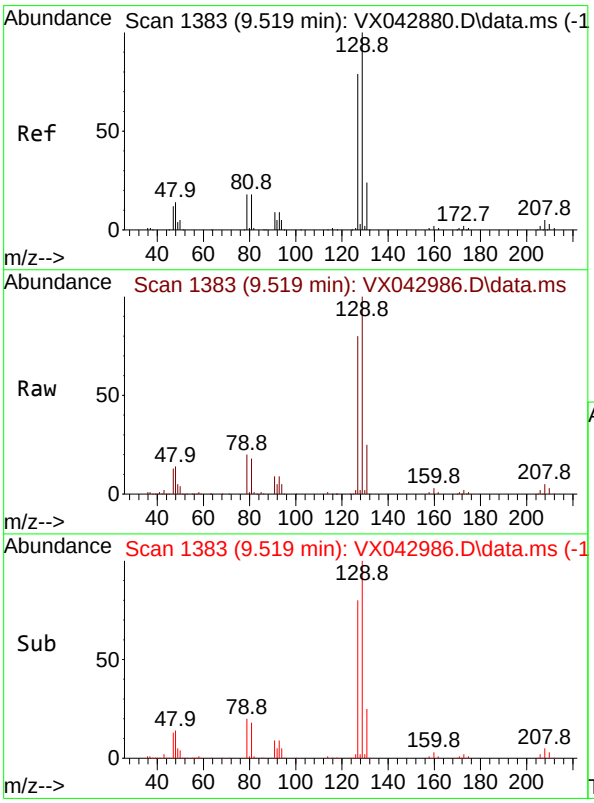
Ion	Ratio	Lower	Upper
43	100		
58	53.9	26.2	78.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

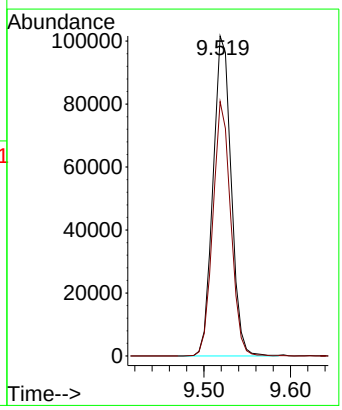


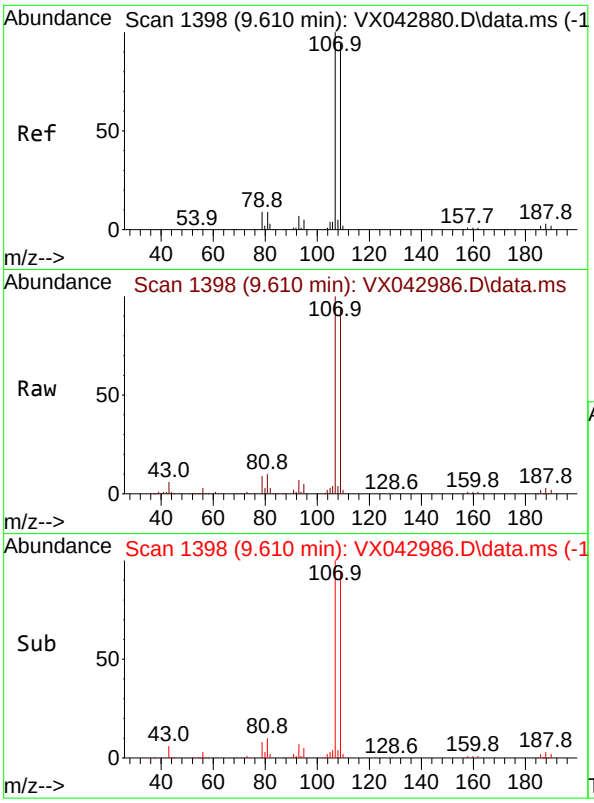


#60
Dibromochloromethane
Concen: 53.018 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion:129 Resp: 147724

Ion	Ratio	Lower	Upper
129	100		
127	78.1	38.8	116.4





#61
1,2-Dibromoethane
Concen: 52.324 ug/l
RT: 9.610 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

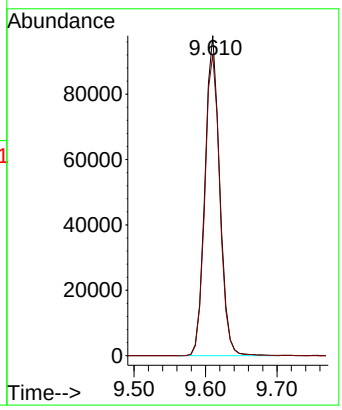
Tgt Ion:107 Resp: 14021

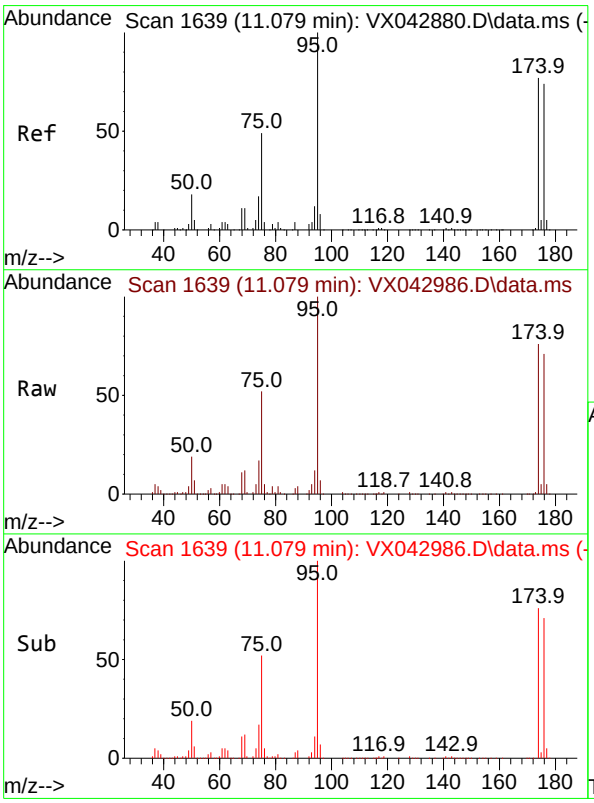
Ion	Ratio	Lower	Upper
107	100		
109	95.8	75.2	112.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

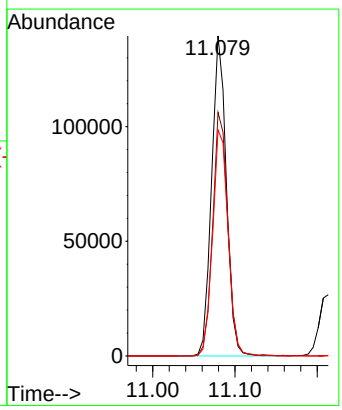


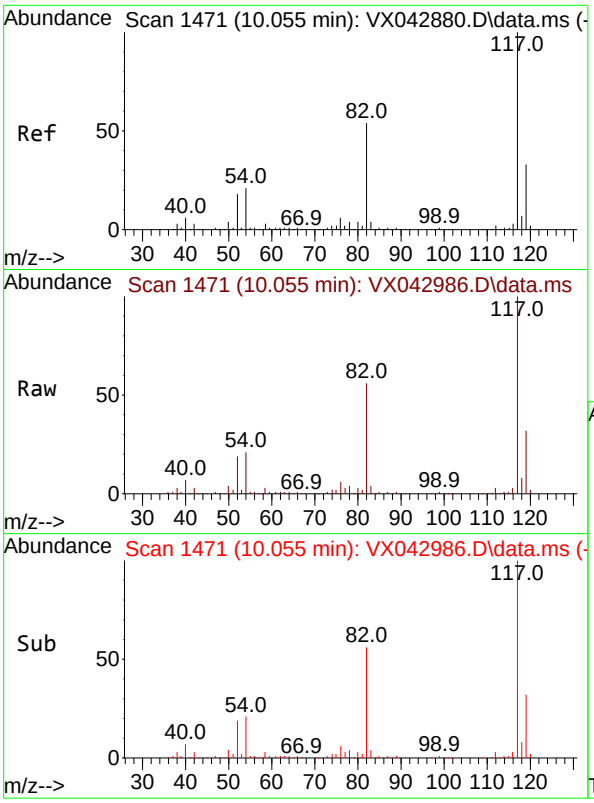


#62
4-Bromofluorobenzene
Concen: 55.616 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 95 Resp: 173429

Ion	Ratio	Lower	Upper
95	100		
174	78.5	0.0	135.6
176	74.4	0.0	131.0

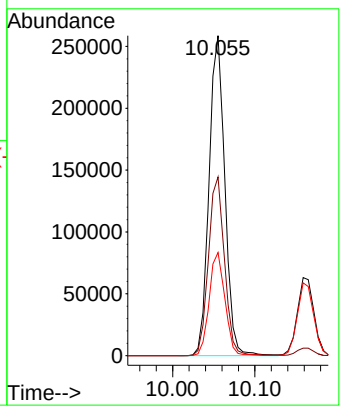




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion:117 Resp: 34440

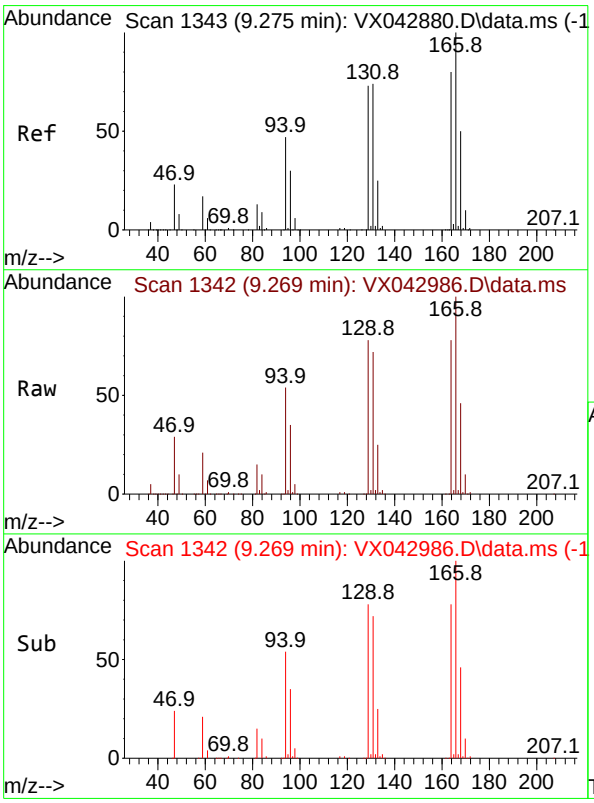
Ion	Ratio	Lower	Upper
117	100		
82	55.8	46.2	69.4
119	32.3	25.5	38.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

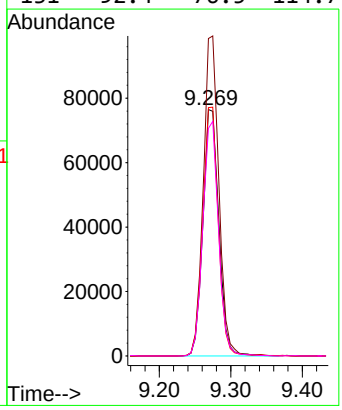
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

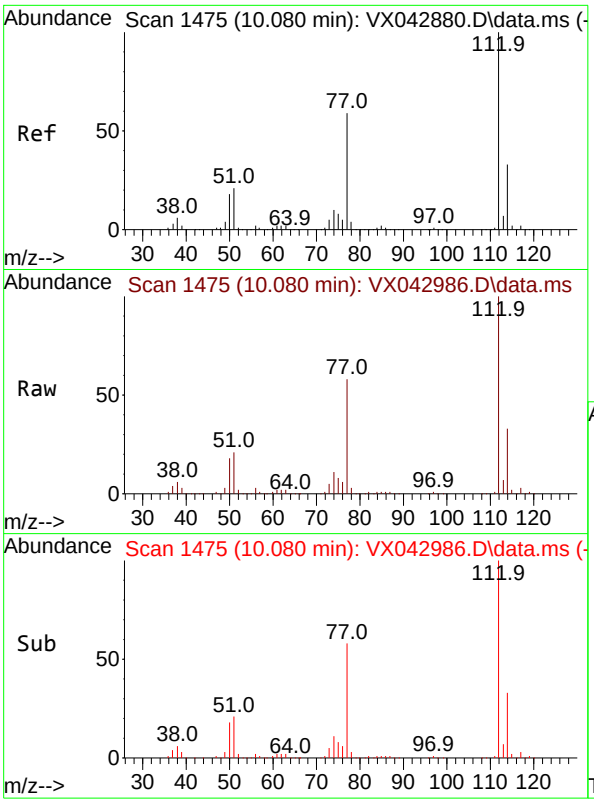


#64
Tetrachloroethene
Concen: 49.175 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.006 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion:164 Resp: 117759

Ion	Ratio	Lower	Upper
164	100		
166	128.8	102.7	154.1
129	100.8	80.4	120.6
131	92.4	76.5	114.7





#65
Chlorobenzene
Concen: 50.472 ug/l
RT: 10.080 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

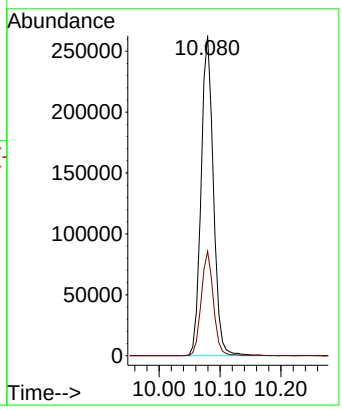
Tgt Ion:112 Resp: 36887

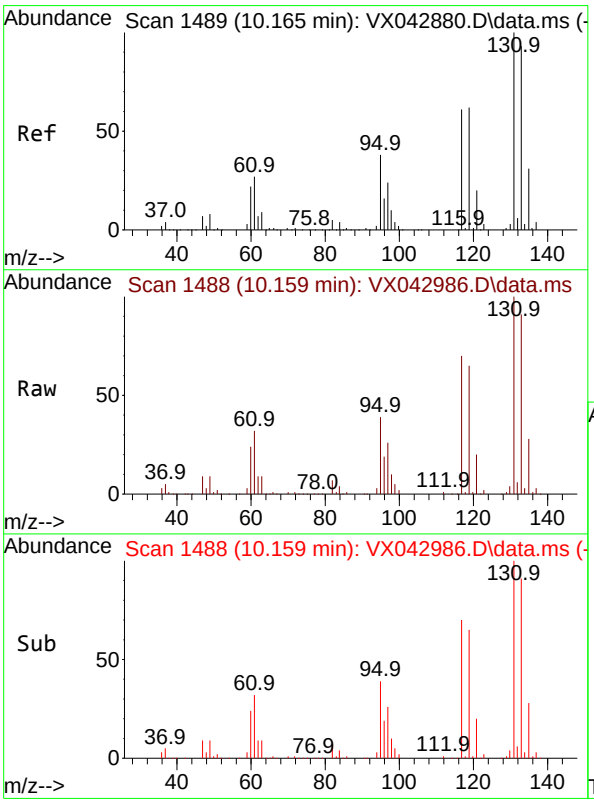
Ion	Ratio	Lower	Upper
112	100		
114	32.6	25.7	38.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

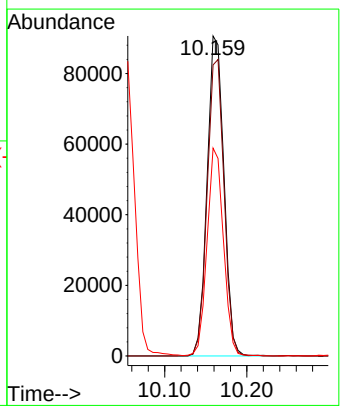


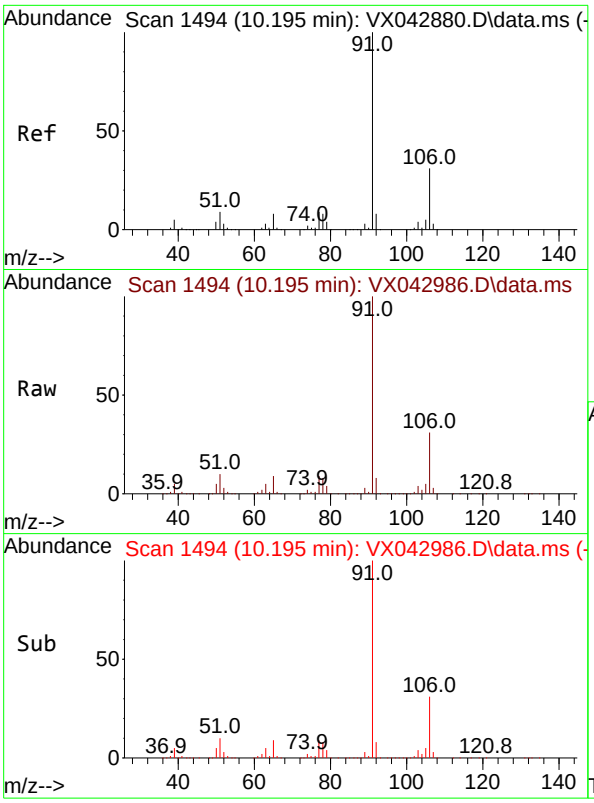


#66
1,1,1,2-Tetrachloroethane
Concen: 51.082 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.006 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion:131 Resp: 128729

Ion	Ratio	Lower	Upper
131	100		
133	92.8	47.1	141.4
119	63.5	32.2	96.6





#67
Ethyl Benzene
Concen: 52.533 ug/l
RT: 10.195 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

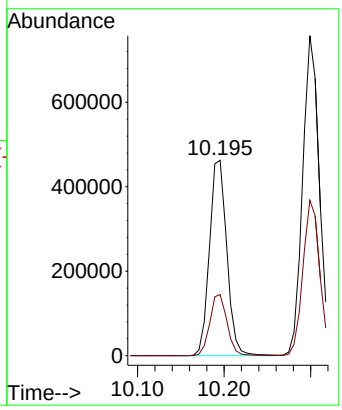
Tgt Ion: 91 Resp: 64581

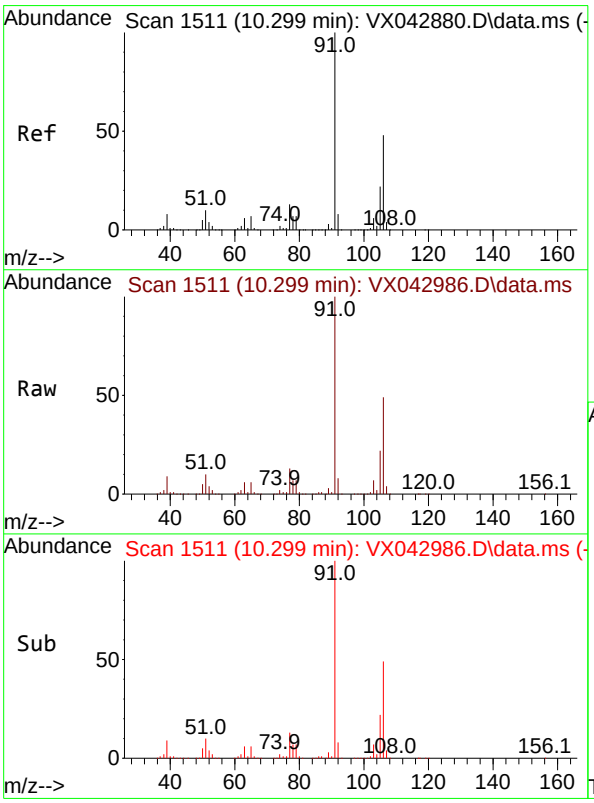
Ion	Ratio	Lower	Upper
91	100		
106	31.3	24.9	37.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

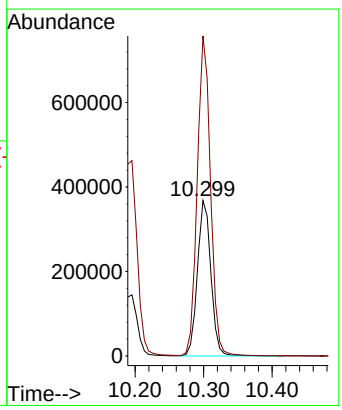


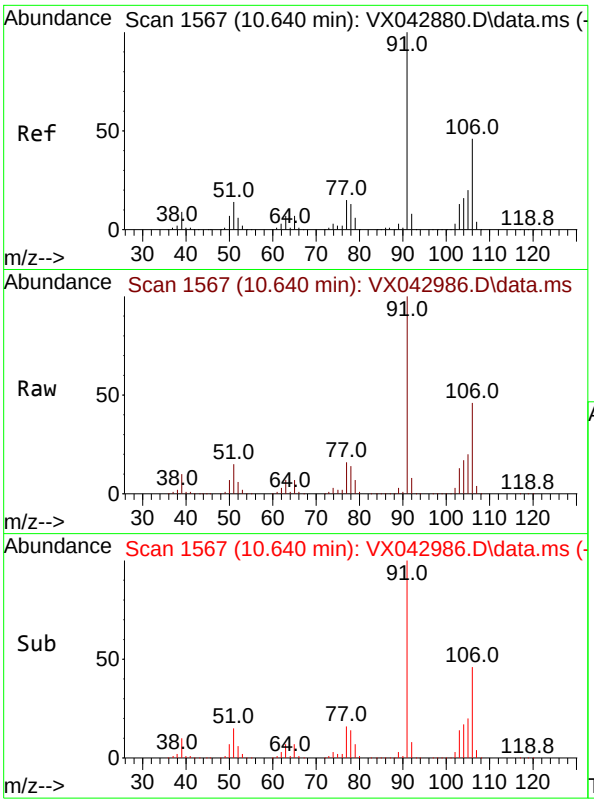


#68
m/p-Xylenes
Concen: 106.904 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion:106 Resp: 501707

Ion	Ratio	Lower	Upper
106	100		
91	203.3	165.5	248.3

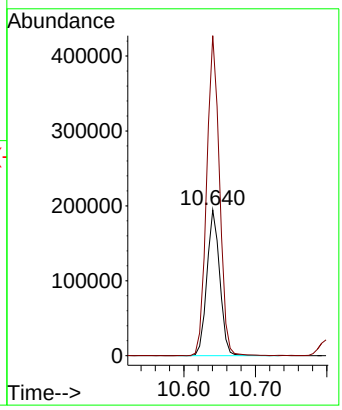




#69
o-Xylene
Concen: 51.555 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion:106 Resp: 24237

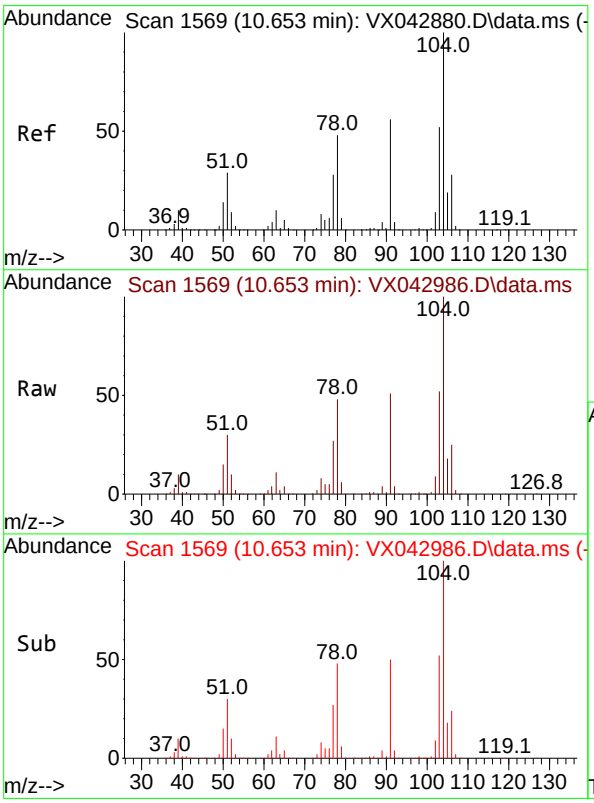
Ion	Ratio	Lower	Upper
106	100		
91	219.7	108.9	326.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

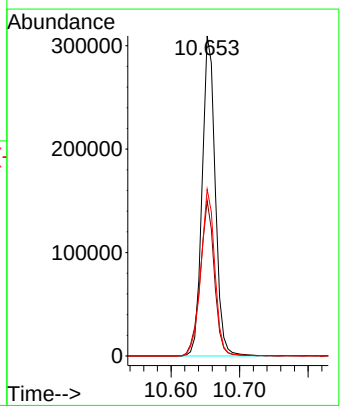
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

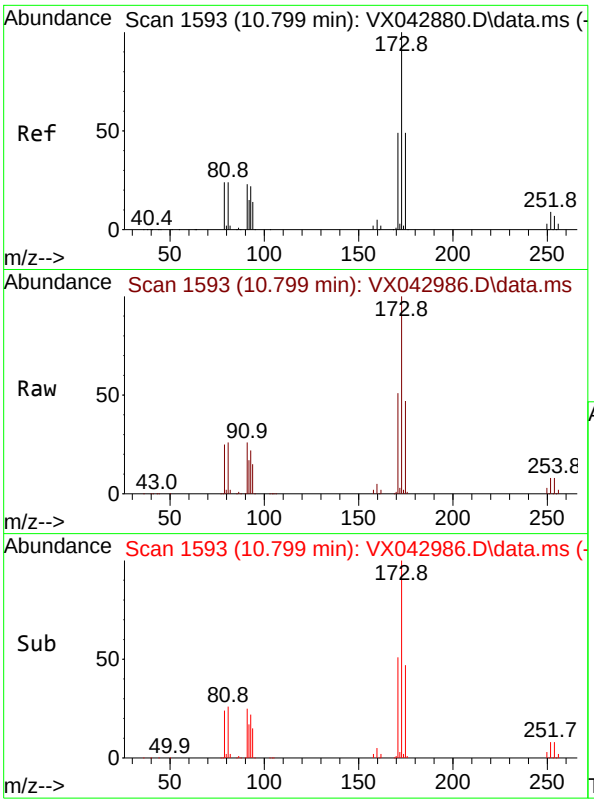


#70
Styrene
Concen: 54.749 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion:104 Resp: 413894

Ion	Ratio	Lower	Upper
104	100		
78	52.1	43.6	65.4
103	55.5	43.6	65.4





#71
Bromoform
Concen: 49.651 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

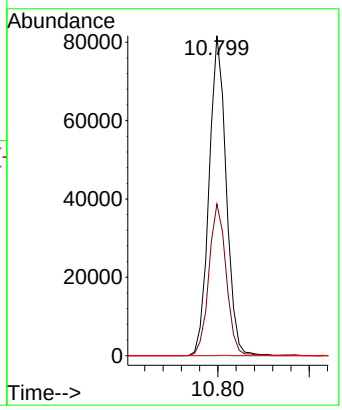
Tgt Ion:173 Resp: 10600

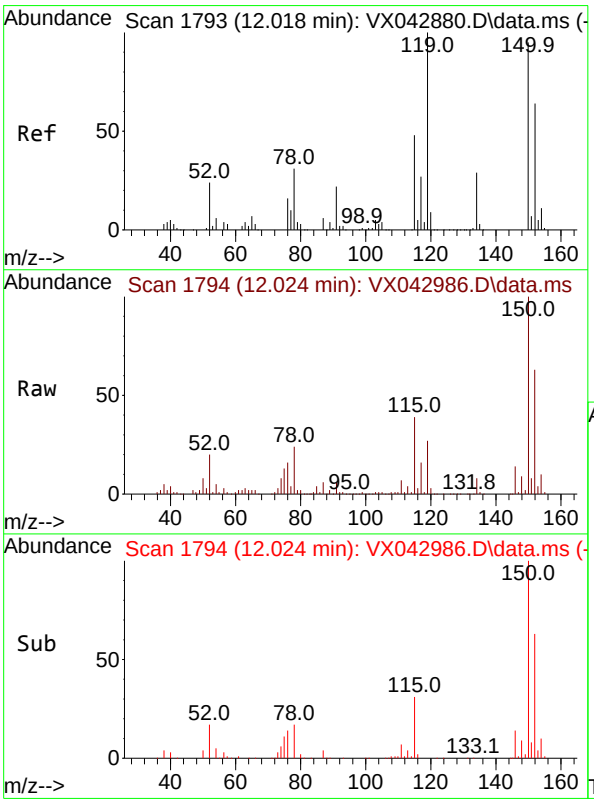
Ion	Ratio	Lower	Upper
173	100		
175	47.9	24.1	72.4
254	0.1	0.0	0.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

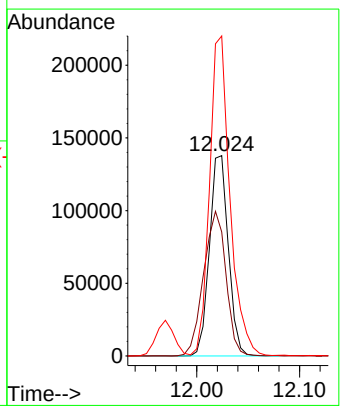


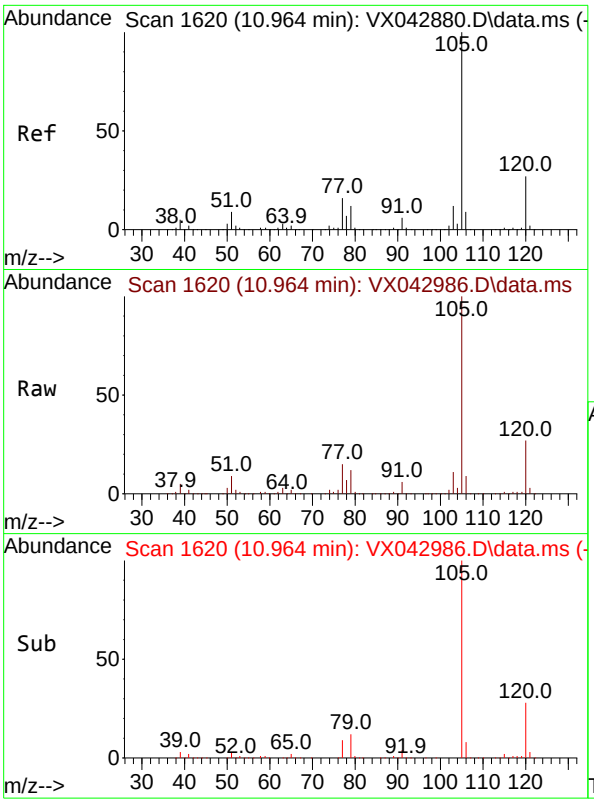


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion:152 Resp: 176162

Ion	Ratio	Lower	Upper
152	100		
115	85.7	43.3	129.9
150	172.5	0.0	345.0

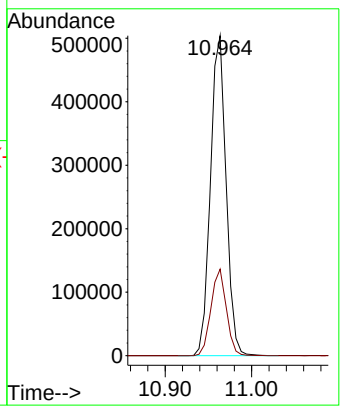




#73
Isopropylbenzene
Concen: 49.684 ug/l
RT: 10.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion:105 Resp: 63279

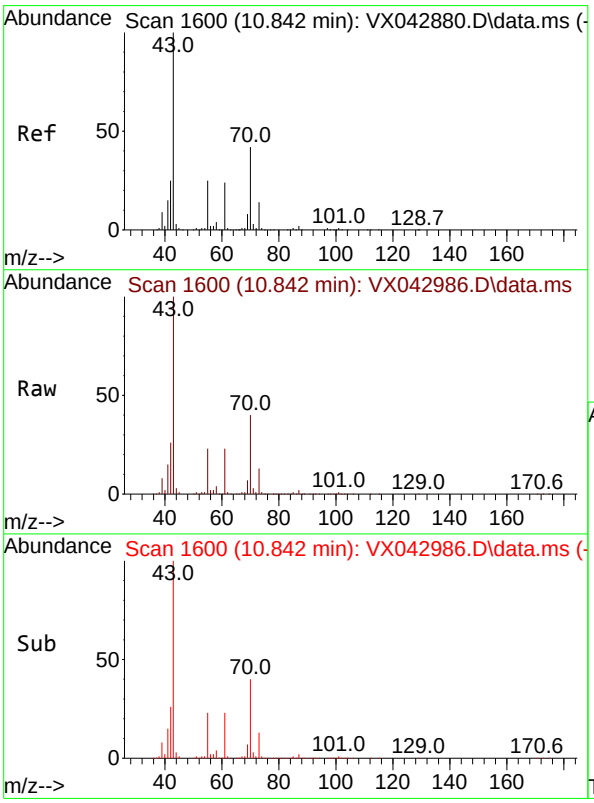
Ion	Ratio	Lower	Upper
105	100		
120	26.5	12.9	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

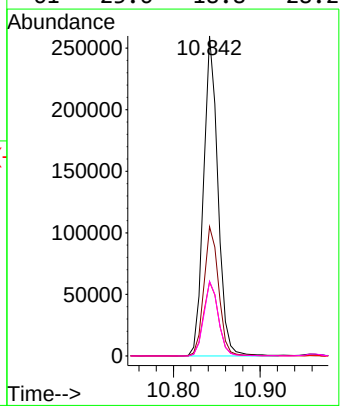
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

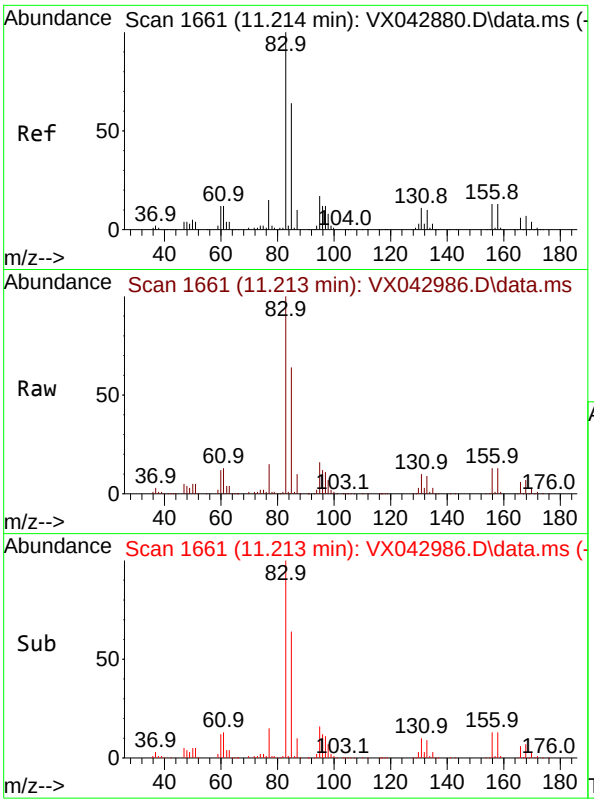


#74
N-amyl acetate
Concen: 52.218 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 43 Resp: 299248

Ion	Ratio	Lower	Upper
43	100		
70	41.4	32.9	49.3
55	24.0	19.3	28.9
61	23.6	18.8	28.2





#75
1,1,2,2-Tetrachloroethane
Concen: 47.235 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

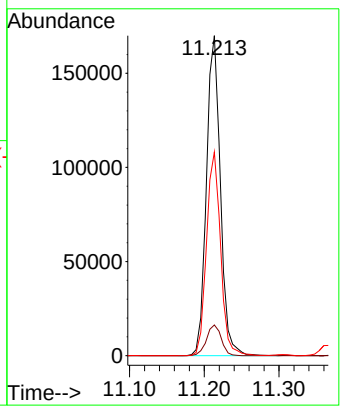
Tgt Ion: 83 Resp: 22038

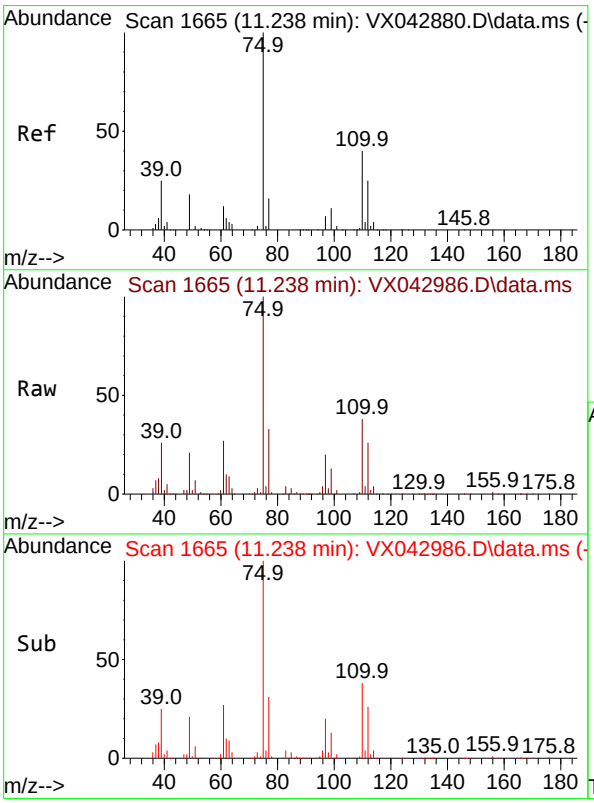
Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.3	15.8
85	64.1	32.0	96.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

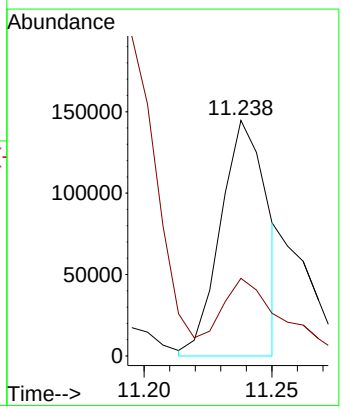


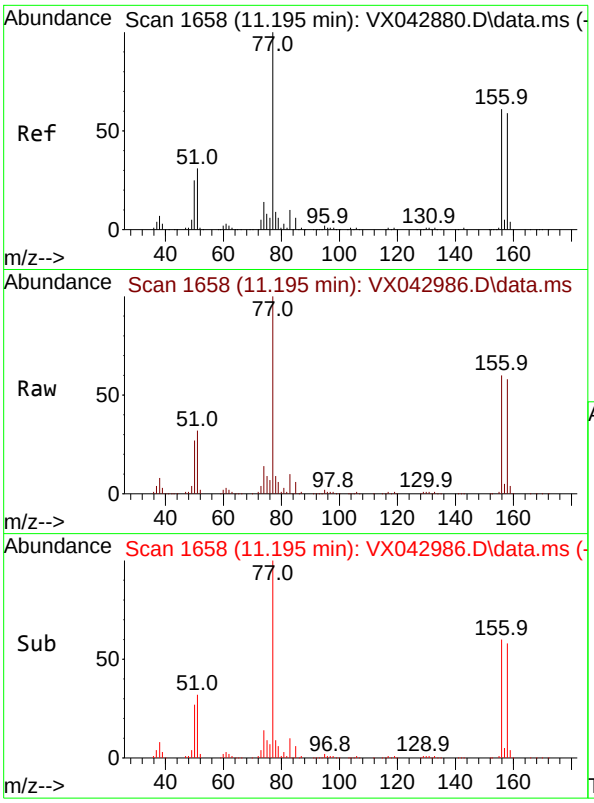


#76
1,2,3-Trichloropropane
Concen: 46.302 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 75 Resp: 183443

Ion	Ratio	Lower	Upper
75	100		
77	43.5	19.1	57.5





#77
Bromobenzene
Concen: 48.181 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

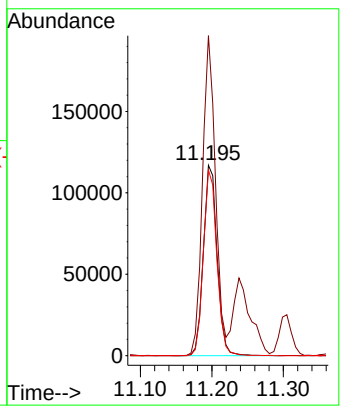
Tgt Ion:156 Resp: 15609

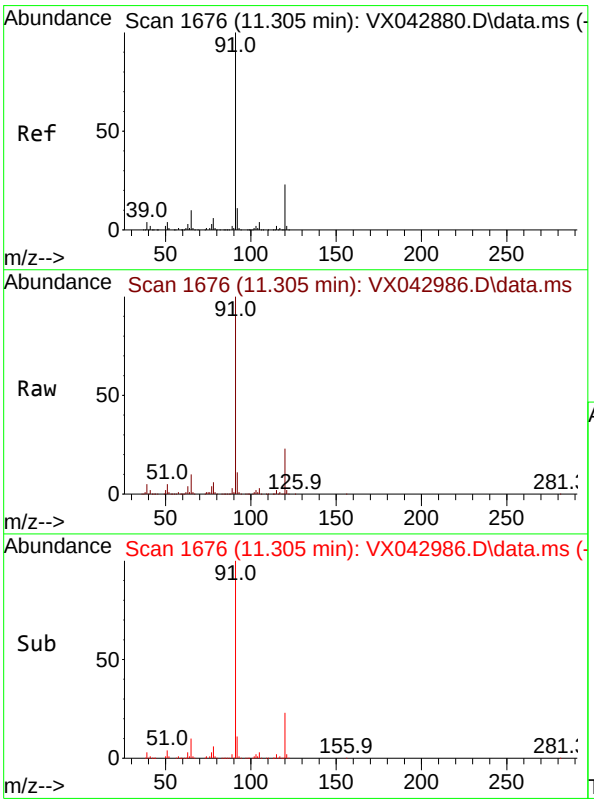
Ion	Ratio	Lower	Upper
156	100		
77	158.7	88.4	265.3
158	95.7	48.0	144.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

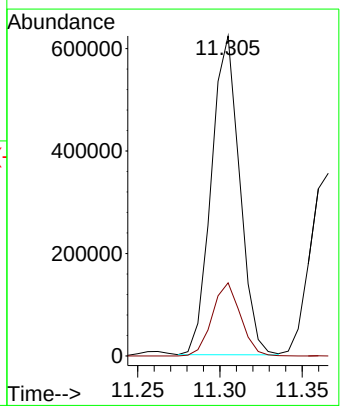


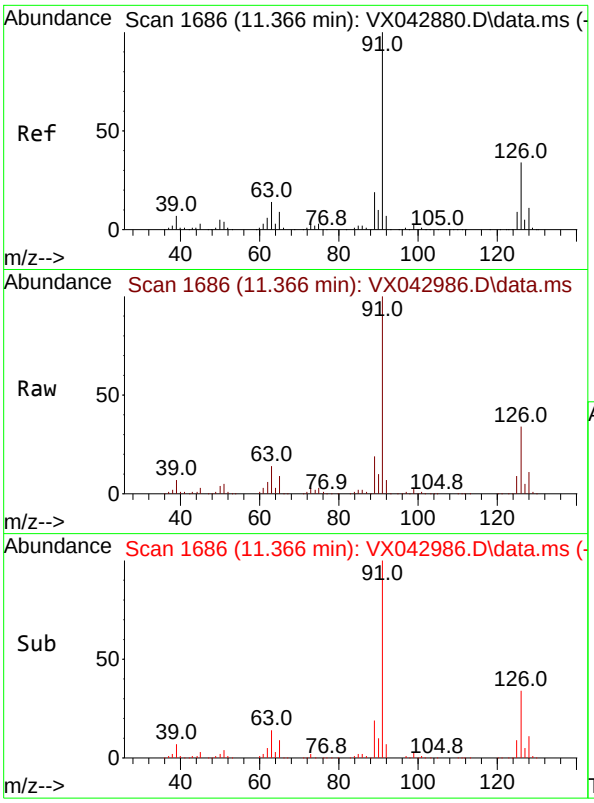


#78
n-propylbenzene
Concen: 52.679 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 91 Resp: 745278

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.5	34.4

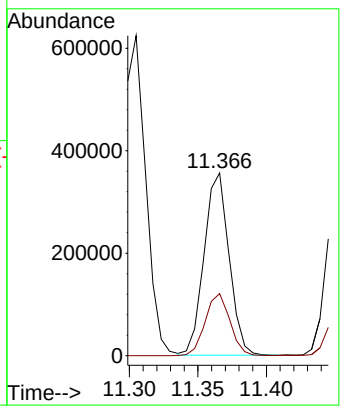




#79
2-Chlorotoluene
Concen: 49.657 ug/l
RT: 11.366 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 91 Resp: 45027

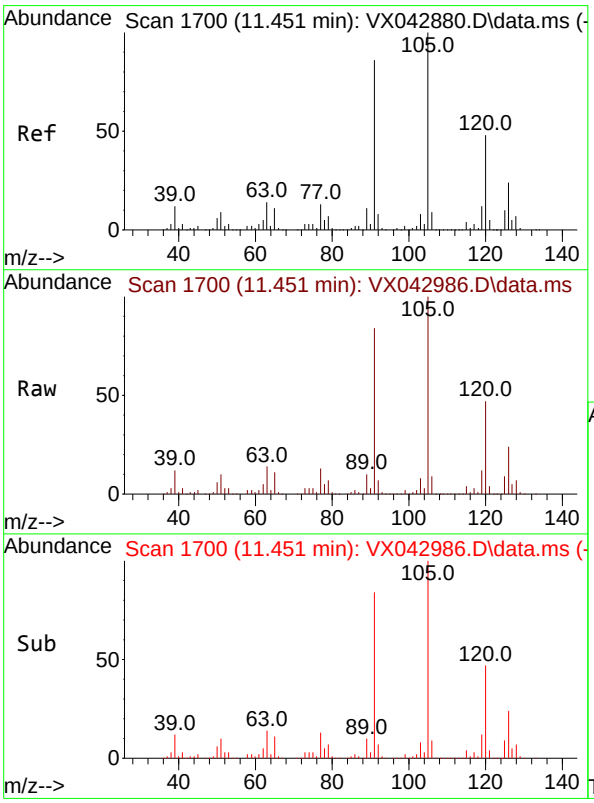
Ion	Ratio	Lower	Upper
91	100		
126	33.8	16.3	48.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

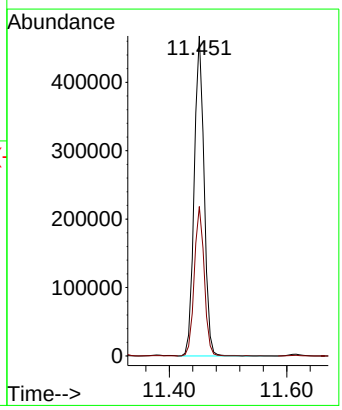
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

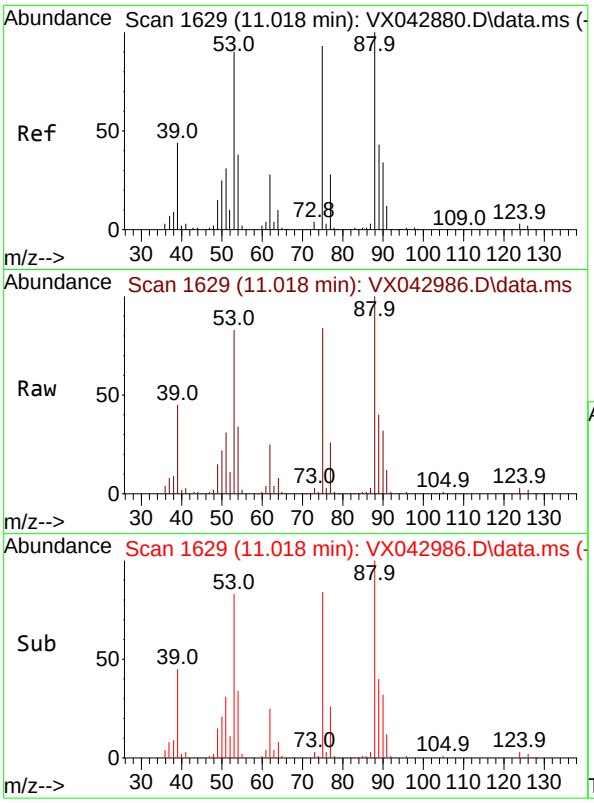


#80
1,3,5-Trimethylbenzene
Concen: 51.684 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion:105 Resp: 545054

Ion	Ratio	Lower	Upper
105	100		
120	46.8	24.1	72.3





#81
trans-1,4-Dichloro-2-butene
Concen: 54.518 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

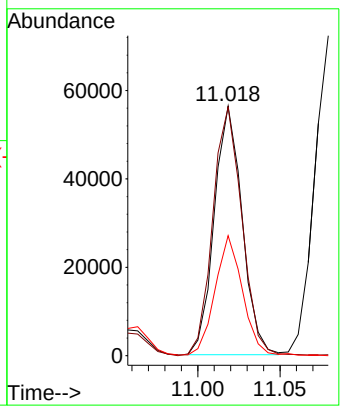
Tgt Ion: 75 Resp: 6642

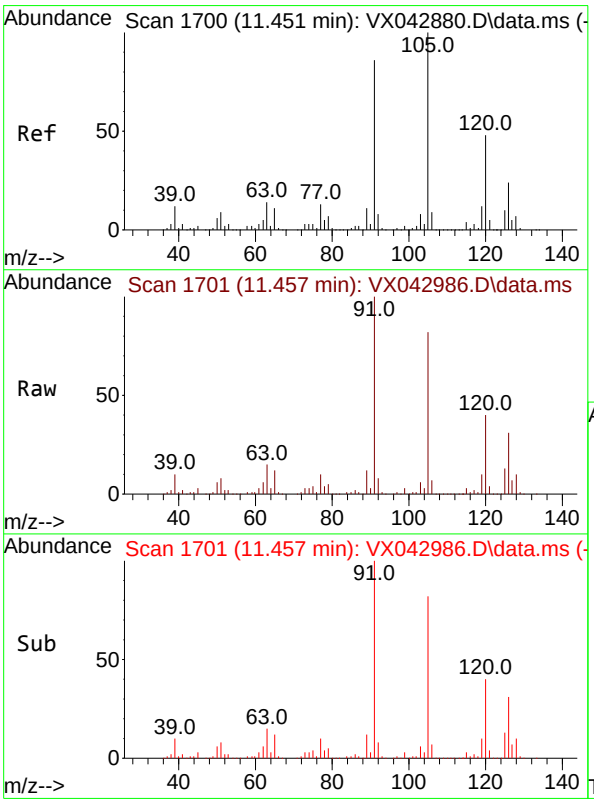
Ion	Ratio	Lower	Upper
75	100		
53	104.5	90.5	135.7
89	48.0	36.9	55.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

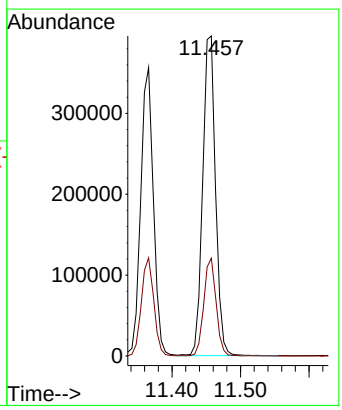


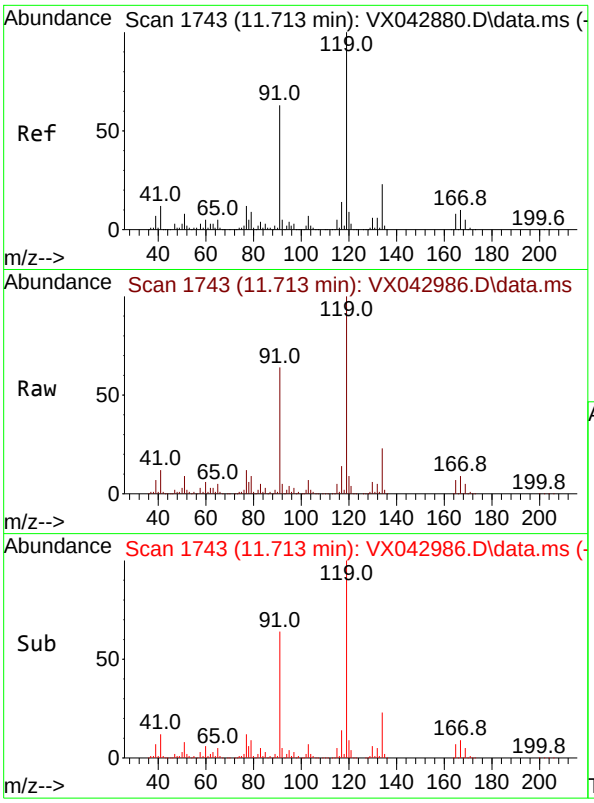


#82
4-Chlorotoluene
Concen: 50.599 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 91 Resp: 515713

Ion	Ratio	Lower	Upper
91	100		
126	29.3	14.2	42.6

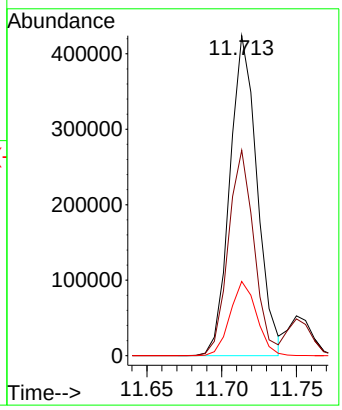




#83
tert-Butylbenzene
Concen: 49.627 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion:119 Resp: 53785

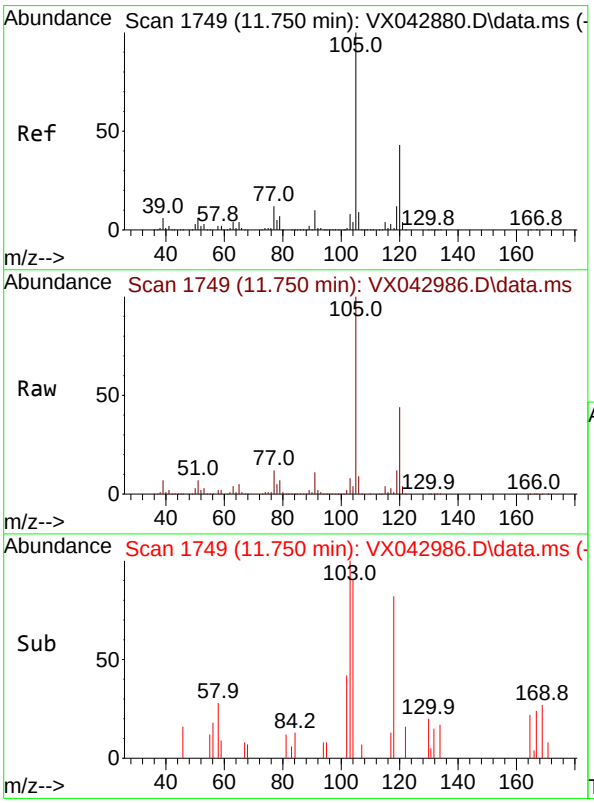
Ion	Ratio	Lower	Upper
119	100		
91	60.7	31.2	93.6
134	22.6	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

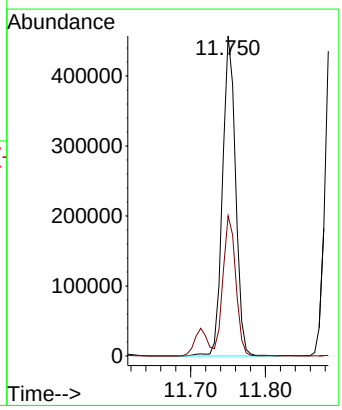
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

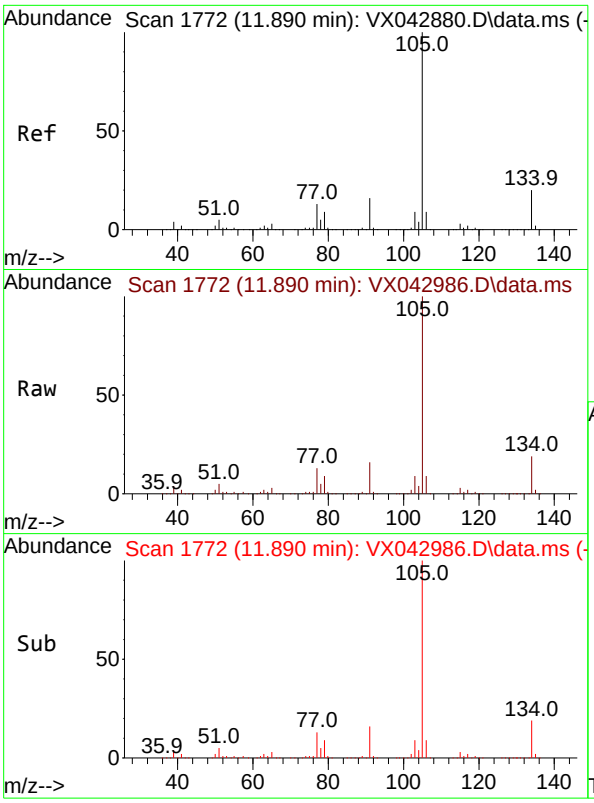


#84
1,2,4-Trimethylbenzene
Concen: 52.274 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion:105 Resp: 554989

Ion	Ratio	Lower	Upper
105	100		
120	42.5	21.2	63.6

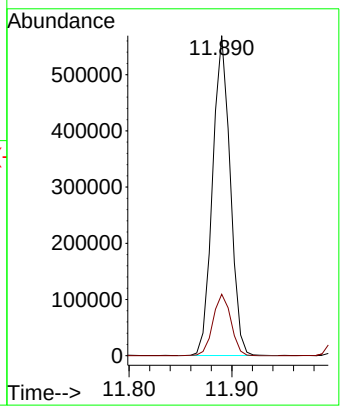




#85
sec-Butylbenzene
Concen: 52.902 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion:105 Resp: 67511

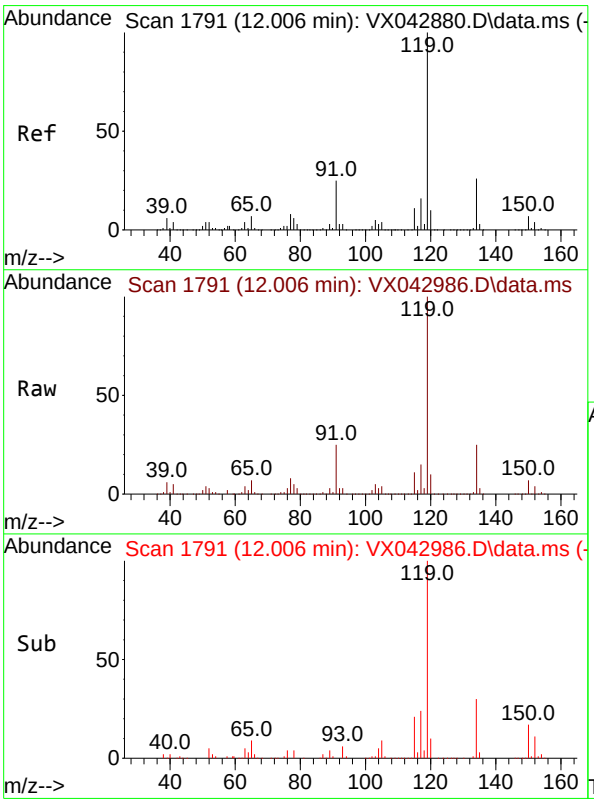
Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

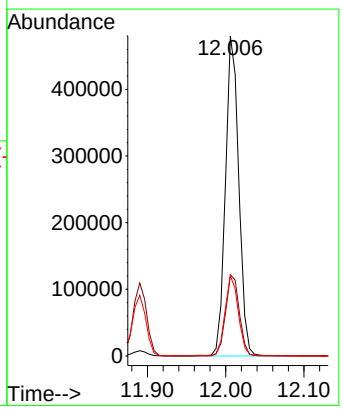
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

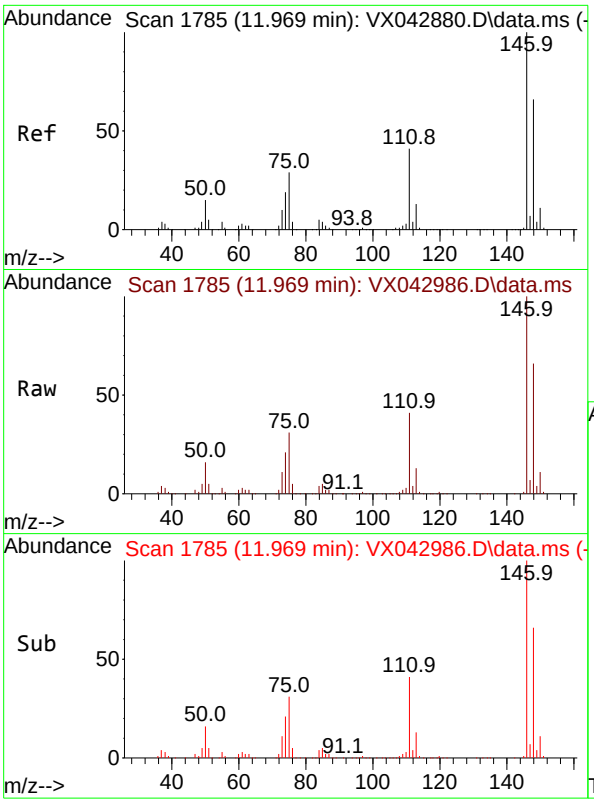


#86
p-Isopropyltoluene
Concen: 53.700 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion:119 Resp: 569369

Ion	Ratio	Lower	Upper
119	100		
134	26.2	12.8	38.3
91	24.9	13.1	39.3

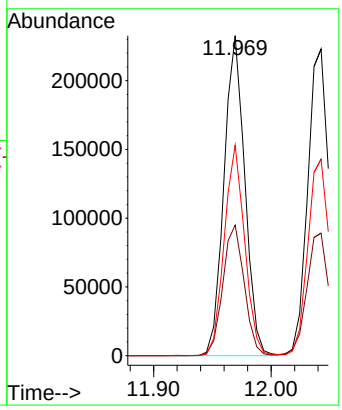




#87
1,3-Dichlorobenzene
Concen: 48.961 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion:146 Resp: 28707

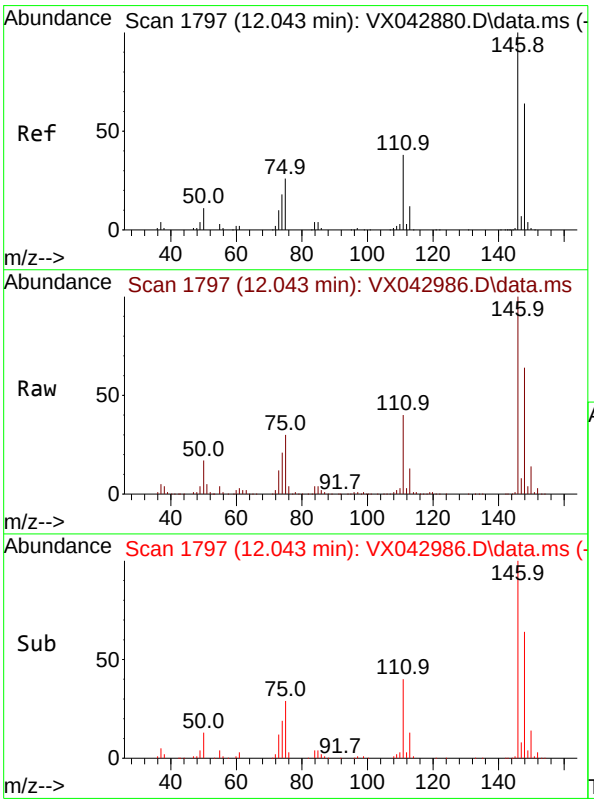
Ion	Ratio	Lower	Upper
146	100		
111	41.9	22.1	66.1
148	64.5	31.8	95.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

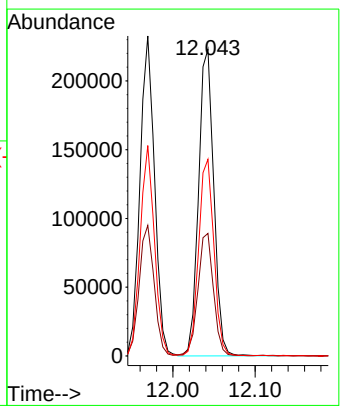
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

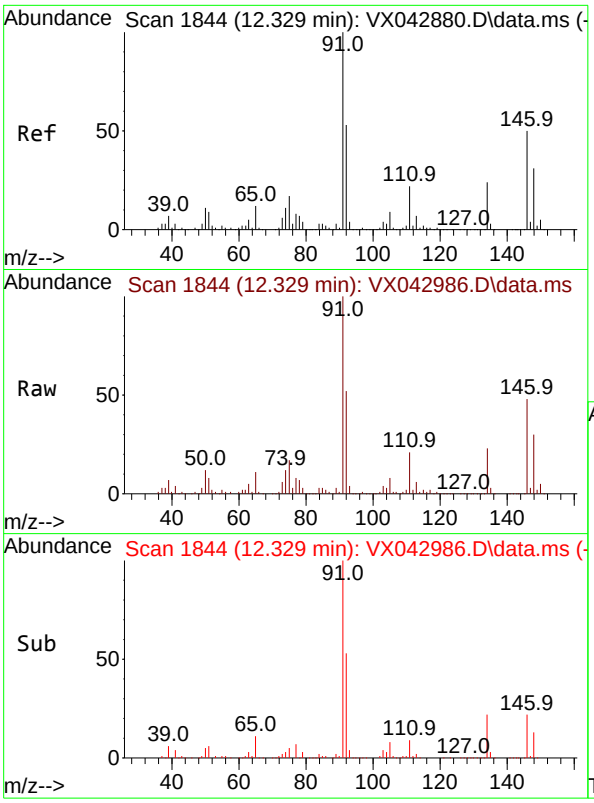


#88
1,4-Dichlorobenzene
Concen: 47.668 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion:146 Resp: 286479

Ion	Ratio	Lower	Upper
146	100		
111	40.9	21.3	63.7
148	64.1	31.8	95.4

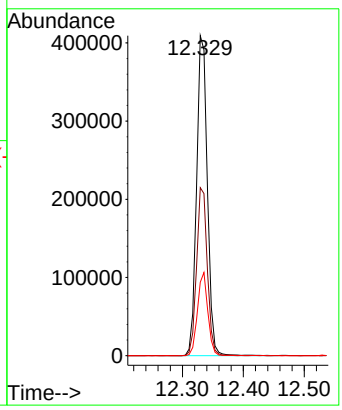




#89
n-Butylbenzene
Concen: 54.729 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 91 Resp: 50059

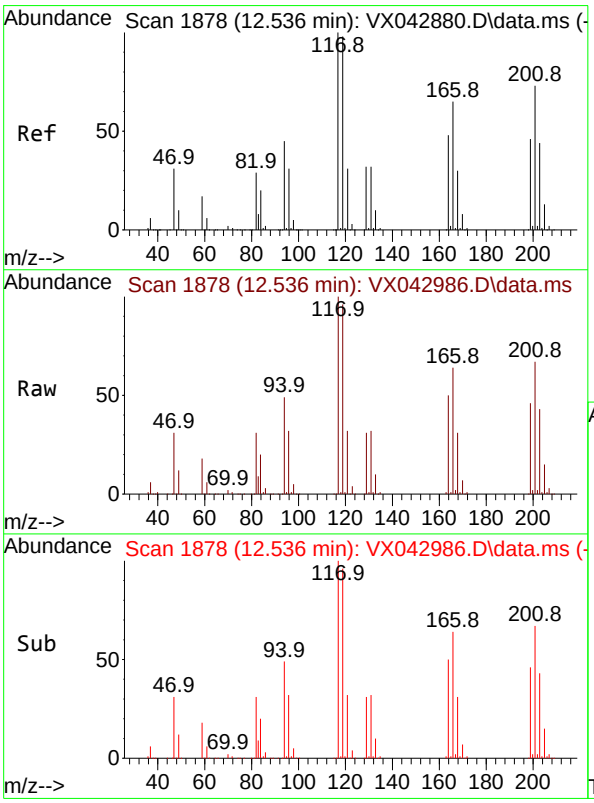
Ion	Ratio	Lower	Upper
91	100		
92	52.3	27.4	82.0
134	25.0	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

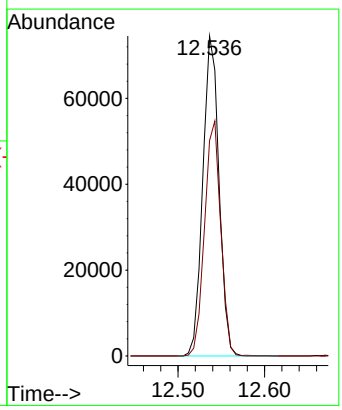
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

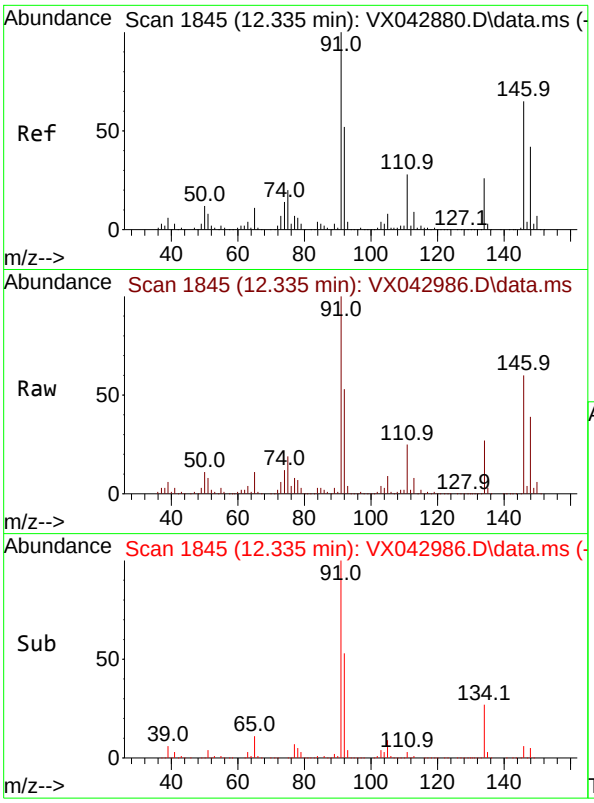


#90
Hexachloroethane
Concen: 49.964 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion:117 Resp: 96905

Ion	Ratio	Lower	Upper
117	100		
201	73.2	32.9	98.6

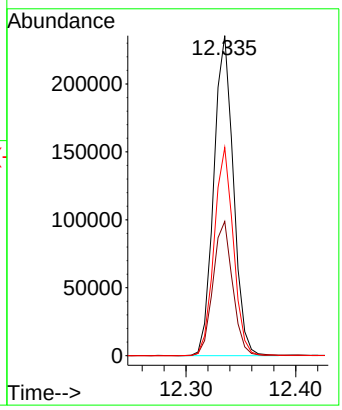




#91
1,2-Dichlorobenzene
Concen: 49.903 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion:146 Resp: 29300

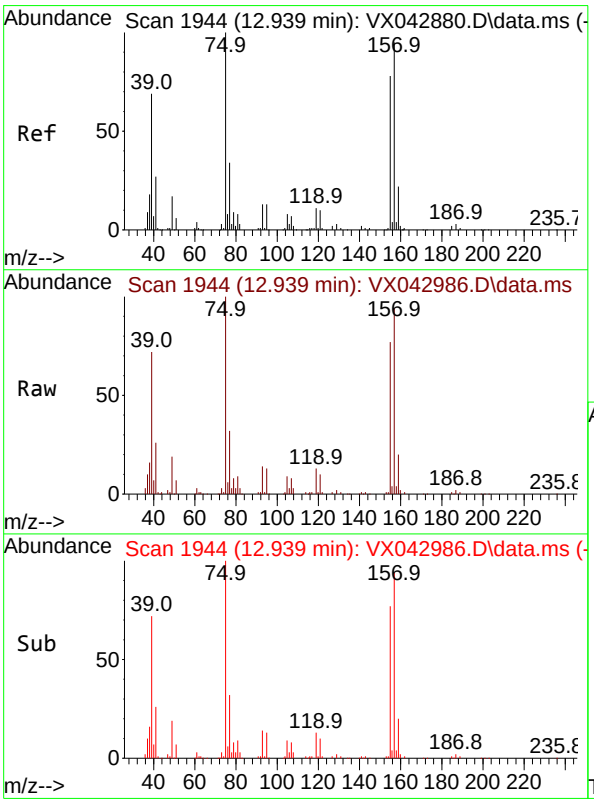
Ion	Ratio	Lower	Upper
146	100		
111	41.8	22.4	67.0
148	63.8	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

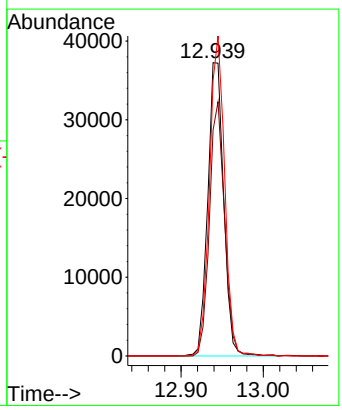
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

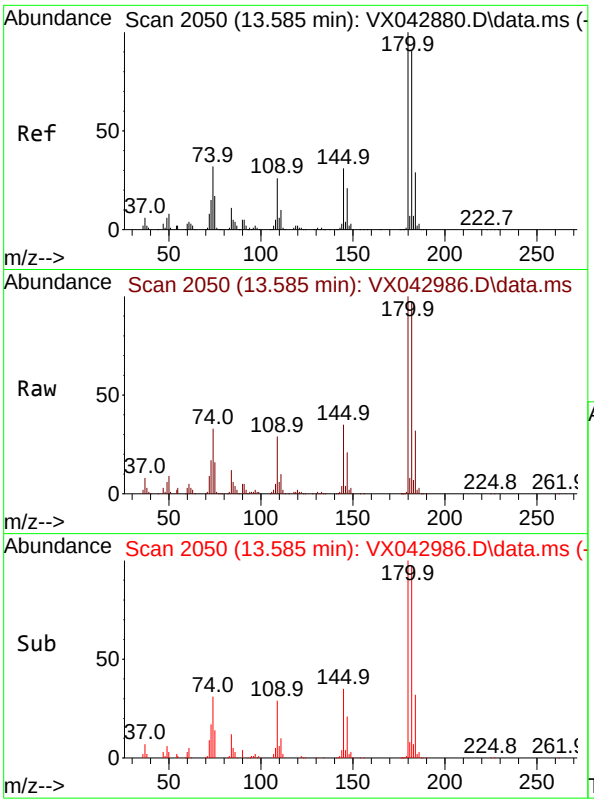


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.019 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion: 75 Resp: 50255

Ion	Ratio	Lower	Upper
75	100		
155	82.0	36.1	108.5
157	103.4	44.9	134.7

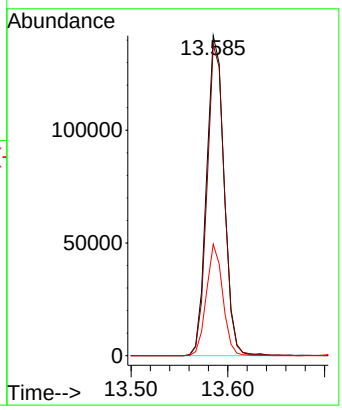




#93
1,2,4-Trichlorobenzene
Concen: 49.851 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion:180 Resp: 17853

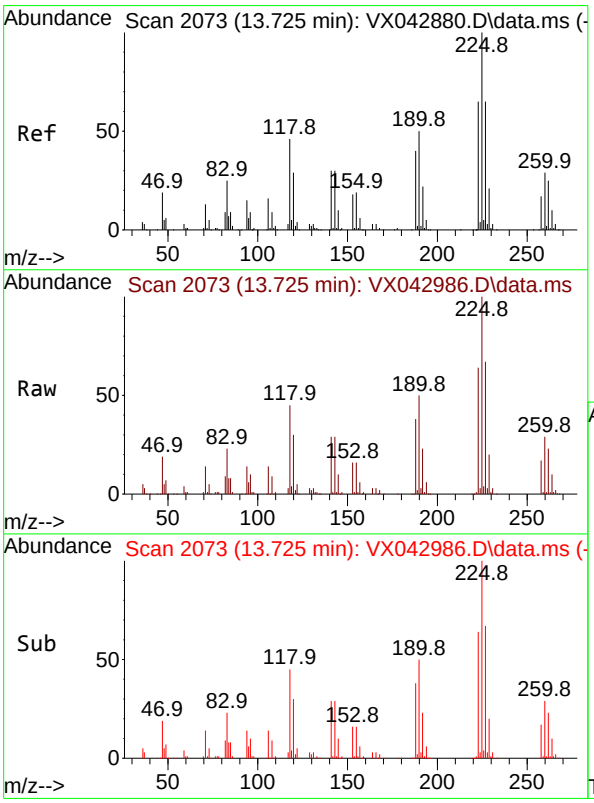
Ion	Ratio	Lower	Upper
180	100		
182	96.0	48.3	144.8
145	32.6	18.0	54.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

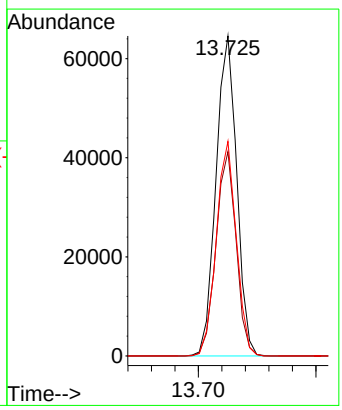
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

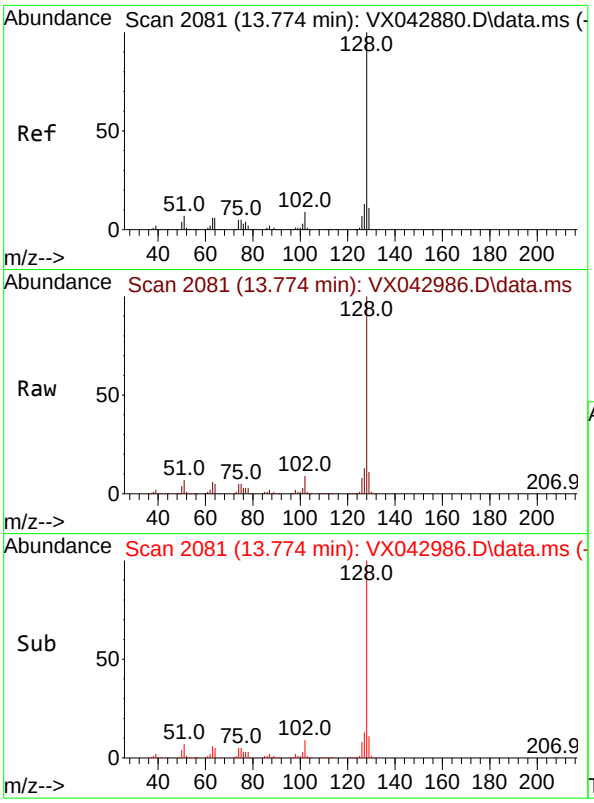


#94
Hexachlorobutadiene
Concen: 52.081 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion:225 Resp: 79108

Ion	Ratio	Lower	Upper
225	100		
223	61.9	31.1	93.2
227	64.9	32.5	97.5

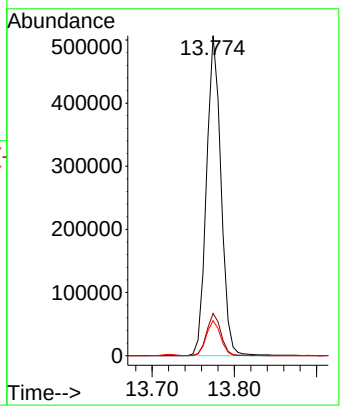




#95
Naphthalene
Concen: 50.117 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion:128 Resp: 62111

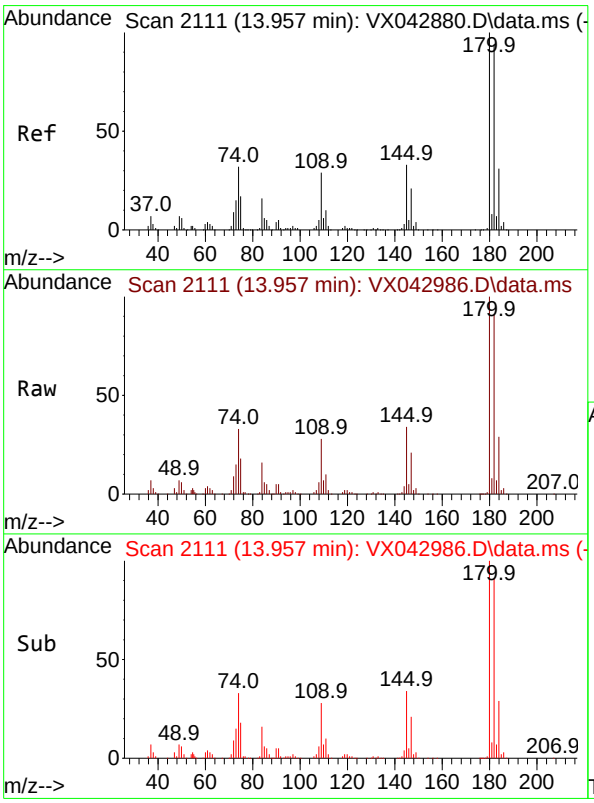
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	10.8	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

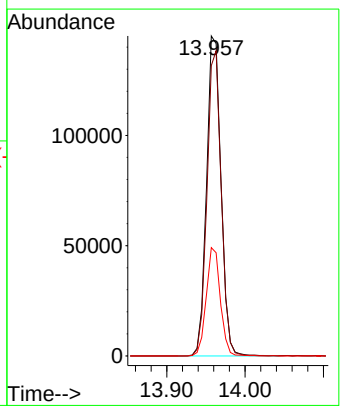
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024



#96
1,2,3-Trichlorobenzene
Concen: 51.433 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX042986.D
Acq: 09 Aug 2024 11:01

Tgt Ion:180 Resp: 185422

Ion	Ratio	Lower	Upper
180	100		
182	93.8	46.9	140.6
145	33.1	17.8	53.5



Evaluate Continuing Calibration Report

Sample Results: **VX042986.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080924\
Data File : VX042986.D
Acq On : 09 Aug 2024 11:01
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 09 16:26:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 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	90	0.00
2	T	Dichlorodifluoromethane	0.539	0.561	-4.1	92	0.00
3	P	Chloromethane	0.587	0.601	-2.4	98	0.00
4	C	Vinyl Chloride	0.557	0.572	-2.7#	94	0.00
5	T	Bromomethane	0.337	0.370	-9.8	106	0.00
6	T	Chloroethane	0.317	0.308	2.8	87	0.00
7	T	Trichlorofluoromethane	0.866	0.933	-7.7	95	0.00
8	T	Diethyl Ether	0.319	0.309	3.1	90	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.545	0.554	-1.7	94	0.00
10	T	Methyl Iodide	0.563	0.642	-14.0	101	0.00
11	T	Tert butyl alcohol	0.137	0.141	-2.9	86	0.00
12	CM	1,1-Dichloroethene	0.551	0.521	5.4#	88	0.00
13	T	Acrolein	0.135	0.146	-8.1	98	0.00
14	T	Allyl chloride	0.833	0.886	-6.4	99	0.00
15	T	Acrylonitrile	0.348	0.364	-4.6	96	0.00
16	T	Acetone	0.298	0.332	-11.4	107	0.00
17	T	Carbon Disulfide	1.341	1.264	5.7	88	0.00
18	T	Methyl Acetate	0.944	0.923	2.2	95	0.00
19	T	Methyl tert-butyl Ether	1.855	1.864	-0.5	92	0.00
20	T	Methylene Chloride	0.705	0.629	10.8	95	0.00
21	T	trans-1,2-Dichloroethene	0.554	0.547	1.3	89	0.00
22	T	Diisopropyl ether	1.829	1.885	-3.1	93	0.00
23	T	Vinyl Acetate	2.076	2.239	-7.9	95	0.00
24	P	1,1-Dichloroethane	1.052	1.064	-1.1	92	0.00
25	T	2-Butanone	0.468	0.501	-7.1	97	0.00
26	T	2,2-Dichloropropane	0.647	0.857	-32.5#	121	0.00
27	T	cis-1,2-Dichloroethene	0.658	0.664	-0.9	90	0.00
28	T	Bromochloromethane	0.404	0.403	0.2	106	0.00
29	T	Tetrahydrofuran	0.316	0.319	-0.9	93	0.00
30	C	Chloroform	1.101	1.104	-0.3#	91	0.00
31	T	Cyclohexane	0.859	0.878	-2.2	92	0.00
32	T	1,1,1-Trichloroethane	0.970	0.961	0.9	89	0.00
33	S	1,2-Dichloroethane-d4	0.686	0.716	-4.4	97	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	88	0.00
35	S	Dibromofluoromethane	0.327	0.344	-5.2	94	0.00
36	T	1,1-Dichloropropene	0.443	0.445	-0.5	91	0.00
37	T	Ethyl Acetate	0.555	0.575	-3.6	93	0.00
38	T	Carbon Tetrachloride	0.500	0.499	0.2	89	0.00
39	T	Methylcyclohexane	0.527	0.583	-10.6	93	0.00
40	TM	Benzene	1.376	1.422	-3.3	91	0.00
41	T	Methacrylonitrile	0.286	0.305	-6.6	91	0.00
42	TM	1,2-Dichloroethane	0.500	0.534	-6.8	95	0.00
43	T	Isopropyl Acetate	0.820	0.901	-9.9	95	0.00
44	TM	Trichloroethene	0.346	0.356	-2.9	93	0.00
45	C	1,2-Dichloropropane	0.349	0.359	-2.9#	91	0.00
46	T	Dibromomethane	0.256	0.269	-5.1	93	0.00
47	T	Bromodichloromethane	0.476	0.507	-6.5	92	0.00
48	T	Methyl methacrylate	0.393	0.440	-12.0	94	0.00

Sample Results: **VX042986.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080924\
Data File : VX042986.D
Acq On : 09 Aug 2024 11:01
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 09 16:26:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 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	0.009	0.009	0.0	92	0.00
50	S	Toluene-d8	1.161	1.238	-6.6	96	0.00
51	T	4-Methyl-2-Pentanone	0.549	0.606	-10.4	96	0.00
52	CM	Toluene	0.834	0.892	-7.0#	93	0.00
53	T	t-1,3-Dichloropropene	0.440	0.511	-16.1	99	0.00
54	T	cis-1,3-Dichloropropene	0.486	0.542	-11.5	95	0.00
55	T	1,1,2-Trichloroethane	0.339	0.365	-7.7	96	0.00
56	T	Ethyl methacrylate	0.546	0.605	-10.8	95	0.00
57	T	1,3-Dichloropropane	0.556	0.592	-6.5	94	0.00
58	T	2-Chloroethyl Vinyl ether	0.257	0.281	-9.3	91	0.00
59	T	2-Hexanone	0.426	0.475	-11.5	98	0.00
60	T	Dibromochloromethane	0.373	0.395	-5.9	93	0.00
61	T	1,2-Dibromoethane	0.358	0.375	-4.7	92	0.00
62	S	4-Bromofluorobenzene	0.417	0.464	-11.3	103	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00
64	T	Tetrachloroethene	0.348	0.342	1.7	90	0.00
65	PM	Chlorobenzene	1.061	1.071	-0.9	94	0.00
66	T	1,1,1,2-Tetrachloroethane	0.366	0.374	-2.2	94	0.00
67	C	Ethyl Benzene	1.785	1.875	-5.0#	95	0.00
68	T	m/p-Xylenes	0.681	0.728	-6.9	96	0.00
69	T	o-Xylene	0.683	0.704	-3.1	94	0.00
70	T	Styrene	1.098	1.202	-9.5	95	0.00
71	P	Bromoform	0.286	0.308	-7.7	93	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	99	0.00
73	T	Isopropylbenzene	3.615	3.592	0.6	97	0.00
74	T	N-amyl acetate	1.627	1.699	-4.4	99	0.00
75	P	1,1,2,2-Tetrachloroethane	1.324	1.251	5.5	97	0.00
76	T	1,2,3-Trichloropropane	1.124	1.041	7.4	98	0.00
77	T	Bromobenzene	0.920	0.886	3.7	96	0.00
78	T	n-propylbenzene	4.015	4.231	-5.4	99	0.00
79	T	2-Chlorotoluene	2.574	2.556	0.7	98	0.00
80	T	1,3,5-Trimethylbenzene	2.993	3.094	-3.4	99	0.00
81	T	trans-1,4-Dichloro-2-butene	0.346	0.377	-9.0	104	0.00
82	T	4-Chlorotoluene	2.893	2.927	-1.2	99	0.00
83	T	tert-Butylbenzene	3.076	3.053	0.7	97	0.00
84	T	1,2,4-Trimethylbenzene	3.013	3.150	-4.5	99	0.00
85	T	sec-Butylbenzene	3.622	3.832	-5.8	100	0.00
86	T	p-Isopropyltoluene	3.009	3.232	-7.4	100	0.00
87	T	1,3-Dichlorobenzene	1.664	1.630	2.0	98	0.00
88	T	1,4-Dichlorobenzene	1.706	1.626	4.7	98	0.00
89	T	n-Butylbenzene	2.596	2.842	-9.5	103	0.00
90	T	Hexachloroethane	0.550	0.550	0.0	99	0.00
91	T	1,2-Dichlorobenzene	1.666	1.663	0.2	99	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.291	0.285	2.1	96	0.00
93	T	1,2,4-Trichlorobenzene	1.017	1.013	0.4	98	0.00
94	T	Hexachlorobutadiene	0.431	0.449	-4.2	102	0.00
95	T	Naphthalene	3.518	3.526	-0.2	95	0.00

Sample Results: **VX042986.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080924\
Data File : VX042986.D
Acq On : 09 Aug 2024 11:01
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 09 16:26:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 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	1.023	1.053	-2.9	100	0.00

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

Sample Results: **VX042986.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080924\
Data File : VX042986.D
Acq On : 09 Aug 2024 11:01
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 09 16:26:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 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	90	0.00
2	T	Dichlorodifluoromethane	50.000	52.042	-4.1	92	0.00
3	P	Chloromethane	50.000	51.133	-2.3	98	0.00
4	C	Vinyl Chloride	50.000	51.334	-2.7#	94	0.00
5	T	Bromomethane	50.000	54.861	-9.7	106	0.00
6	T	Chloroethane	50.000	48.594	2.8	87	0.00
7	T	Trichlorofluoromethane	50.000	53.817	-7.6	95	0.00
8	T	Diethyl Ether	50.000	48.501	3.0	90	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	50.813	-1.6	94	0.00
10	T	Methyl Iodide	50.000	57.019	-14.0	101	0.00
11	T	Tert butyl alcohol	250.000	257.752	-3.1	86	0.00
12	CM	1,1-Dichloroethene	50.000	47.260	5.5#	88	0.00
13	T	Acrolein	250.000	271.355	-8.5	98	0.00
14	T	Allyl chloride	50.000	53.190	-6.4	99	0.00
15	T	Acrylonitrile	250.000	260.825	-4.3	96	0.00
16	T	Acetone	250.000	279.117	-11.6	107	0.00
17	T	Carbon Disulfide	50.000	47.141	5.7	88	0.00
18	T	Methyl Acetate	50.000	48.886	2.2	95	0.00
19	T	Methyl tert-butyl Ether	50.000	50.233	-0.5	92	0.00
20	T	Methylene Chloride	50.000	51.103	-2.2	95	0.00
21	T	trans-1,2-Dichloroethene	50.000	49.328	1.3	89	0.00
22	T	Diisopropyl ether	50.000	51.527	-3.1	93	0.00
23	T	Vinyl Acetate	250.000	269.596	-7.8	95	0.00
24	P	1,1-Dichloroethane	50.000	50.560	-1.1	92	0.00
25	T	2-Butanone	250.000	267.772	-7.1	97	0.00
26	T	2,2-Dichloropropane	50.000	66.253	-32.5#	121	0.00
27	T	cis-1,2-Dichloroethene	50.000	50.456	-0.9	90	0.00
28	T	Bromochloromethane	50.000	49.970	0.1	106	0.00
29	T	Tetrahydrofuran	250.000	252.105	-0.8	93	0.00
30	C	Chloroform	50.000	50.135	-0.3#	91	0.00
31	T	Cyclohexane	50.000	51.121	-2.2	92	0.00
32	T	1,1,1-Trichloroethane	50.000	49.547	0.9	89	0.00
33	S	1,2-Dichloroethane-d4	50.000	52.192	-4.4	97	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	88	0.00
35	S	Dibromofluoromethane	50.000	52.589	-5.2	94	0.00
36	T	1,1-Dichloropropene	50.000	50.164	-0.3	91	0.00
37	T	Ethyl Acetate	50.000	51.866	-3.7	93	0.00
38	T	Carbon Tetrachloride	50.000	49.911	0.2	89	0.00
39	T	Methylcyclohexane	50.000	55.283	-10.6	93	0.00
40	TM	Benzene	50.000	51.701	-3.4	91	0.00
41	T	Methacrylonitrile	50.000	53.435	-6.9	91	0.00
42	TM	1,2-Dichloroethane	50.000	53.387	-6.8	95	0.00
43	T	Isopropyl Acetate	50.000	54.912	-9.8	95	0.00
44	TM	Trichloroethene	50.000	51.433	-2.9	93	0.00
45	C	1,2-Dichloropropane	50.000	51.487	-3.0#	91	0.00
46	T	Dibromomethane	50.000	52.429	-4.9	93	0.00
47	T	Bromodichloromethane	50.000	53.233	-6.5	92	0.00
48	T	Methyl methacrylate	50.000	55.909	-11.8	94	0.00

Sample Results: **VX042986.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080924\
Data File : VX042986.D
Acq On : 09 Aug 2024 11:01
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 09 16:26:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 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	1066.512	-6.7	92	0.00
50	S	Toluene-d8	50.000	53.339	-6.7	96	0.00
51	T	4-Methyl-2-Pentanone	250.000	275.626	-10.3	96	0.00
52	CM	Toluene	50.000	53.437	-6.9#	93	0.00
53	T	t-1,3-Dichloropropene	50.000	58.102	-16.2	99	0.00
54	T	cis-1,3-Dichloropropene	50.000	55.752	-11.5	95	0.00
55	T	1,1,2-Trichloroethane	50.000	53.767	-7.5	96	0.00
56	T	Ethyl methacrylate	50.000	55.374	-10.7	95	0.00
57	T	1,3-Dichloropropane	50.000	53.258	-6.5	94	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	273.208	-9.3	91	0.00
59	T	2-Hexanone	250.000	279.086	-11.6	98	0.00
60	T	Dibromochloromethane	50.000	53.018	-6.0	93	0.00
61	T	1,2-Dibromoethane	50.000	52.324	-4.6	92	0.00
62	S	4-Bromofluorobenzene	50.000	55.616	-11.2	103	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	92	0.00
64	T	Tetrachloroethene	50.000	49.175	1.7	90	0.00
65	PM	Chlorobenzene	50.000	50.472	-0.9	94	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	51.082	-2.2	94	0.00
67	C	Ethyl Benzene	50.000	52.533	-5.1#	95	0.00
68	T	m/p-Xylenes	100.000	106.904	-6.9	96	0.00
69	T	o-Xylene	50.000	51.555	-3.1	94	0.00
70	T	Styrene	50.000	54.749	-9.5	95	0.00
71	P	Bromoform	50.000	49.651	0.7	93	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	99	0.00
73	T	Isopropylbenzene	50.000	49.684	0.6	97	0.00
74	T	N-amyl acetate	50.000	52.218	-4.4	99	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	47.235	5.5	97	0.00
76	T	1,2,3-Trichloropropane	50.000	46.302	7.4	98	0.00
77	T	Bromobenzene	50.000	48.181	3.6	96	0.00
78	T	n-propylbenzene	50.000	52.679	-5.4	99	0.00
79	T	2-Chlorotoluene	50.000	49.657	0.7	98	0.00
80	T	1,3,5-Trimethylbenzene	50.000	51.684	-3.4	99	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	54.518	-9.0	104	0.00
82	T	4-Chlorotoluene	50.000	50.599	-1.2	99	0.00
83	T	tert-Butylbenzene	50.000	49.627	0.7	97	0.00
84	T	1,2,4-Trimethylbenzene	50.000	52.274	-4.5	99	0.00
85	T	sec-Butylbenzene	50.000	52.902	-5.8	100	0.00
86	T	p-Isopropyltoluene	50.000	53.700	-7.4	100	0.00
87	T	1,3-Dichlorobenzene	50.000	48.961	2.1	98	0.00
88	T	1,4-Dichlorobenzene	50.000	47.668	4.7	98	0.00
89	T	n-Butylbenzene	50.000	54.729	-9.5	103	0.00
90	T	Hexachloroethane	50.000	49.964	0.1	99	0.00
91	T	1,2-Dichlorobenzene	50.000	49.903	0.2	99	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	49.019	2.0	96	0.00
93	T	1,2,4-Trichlorobenzene	50.000	49.851	0.3	98	0.00
94	T	Hexachlorobutadiene	50.000	52.081	-4.2	102	0.00
95	T	Naphthalene	50.000	50.117	-0.2	95	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080924\
Data File : VX042986.D
Acq On : 09 Aug 2024 11:01
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Aug 09 16:26:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 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	51.433	-2.9	100	0.00

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

QC SAMPLE DATA

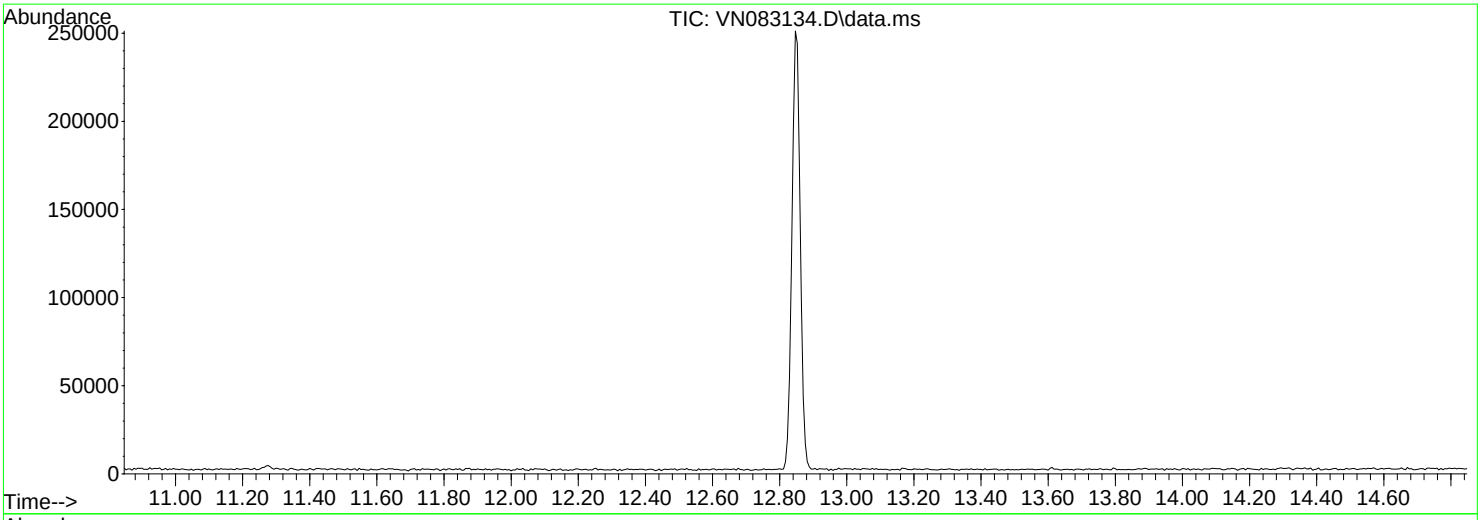
Sample Results: **VN083134.D**

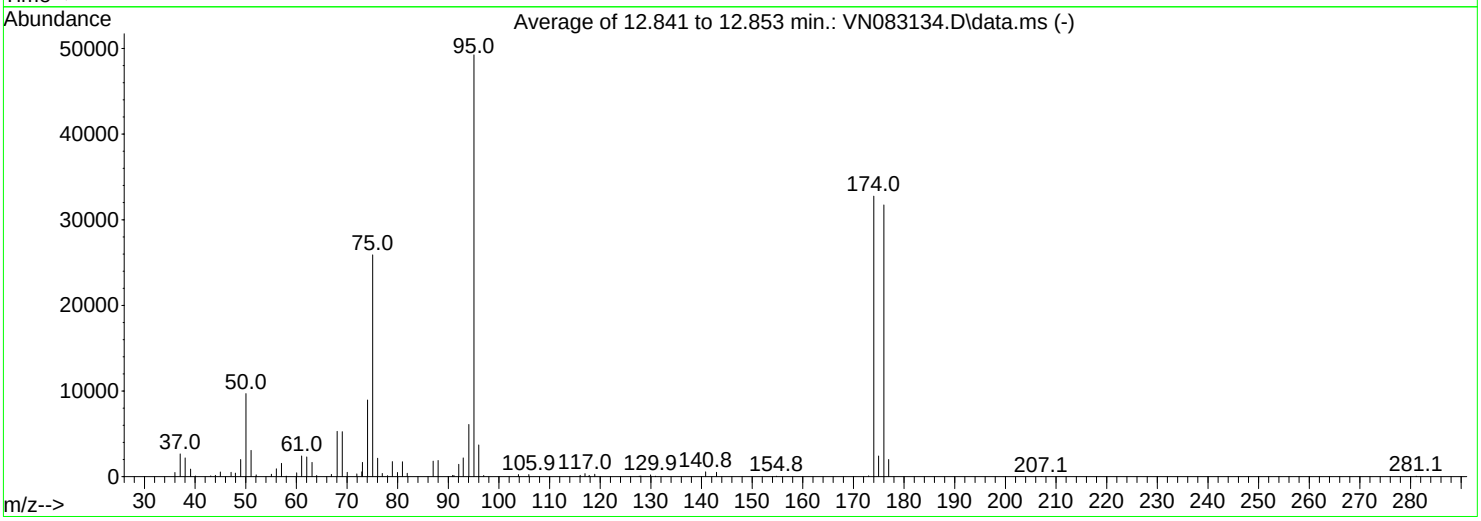
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083134.D
Acq On : 07 Aug 2024 10:09
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

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 Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result 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

Average of 12.841 to 12.853 min.: VN083134.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	482	50.05	9690	64.00	127	76.95	37
37.05	2661	51.05	3059	66.90	264	78.00	11
38.05	2186	52.05	203	68.05	5282	78.95	176
39.10	878	55.05	280	69.05	5250	79.95	49
40.05	66	56.05	919	70.05	505	80.95	1731
43.10	90	57.05	1554	71.95	325	81.90	400
44.00	157	58.00	65	72.90	568	87.00	1822
45.00	540	60.05	458	73.05	1669	88.00	1894
47.10	511	61.05	2408	74.05	8942	90.85	148
47.95	415	62.05	2306	75.05	25907	91.10	125
49.00	1997	63.10	1656	76.05	2147	92.05	1444

Instrument :
MSVOA_N
ClientSampleId :
BFB

Average of 12.841 to 12.853 min.: VN083134.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.95	2196	118.90	274	176.00	31720		
94.05	6092	127.70	54	176.95	1999		
95.05	49259	128.00	79	207.05	13		
96.00	3697	129.95	202	281.10	54		
97.00	129	130.90	61				
103.85	253	140.80	554				
105.90	250	142.95	497				
116.05	155	154.80	55				
117.00	348	173.00	99				
117.70	61	174.00	32749				
117.85	141	174.95	2414				

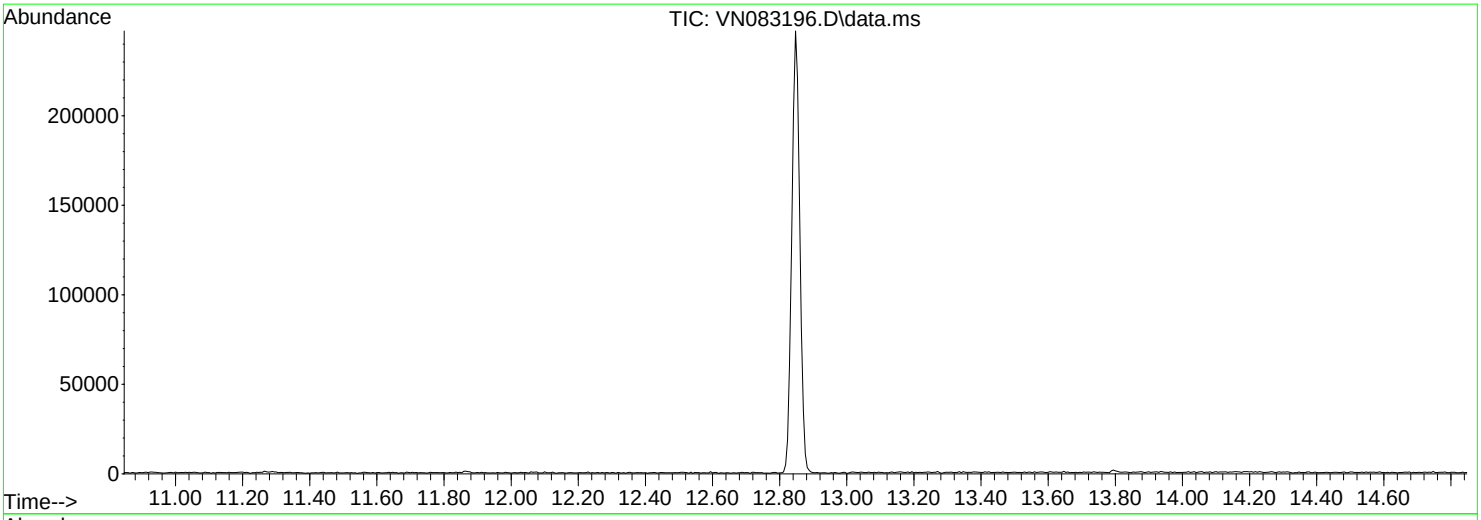
Sample Results: **VN083196.D**

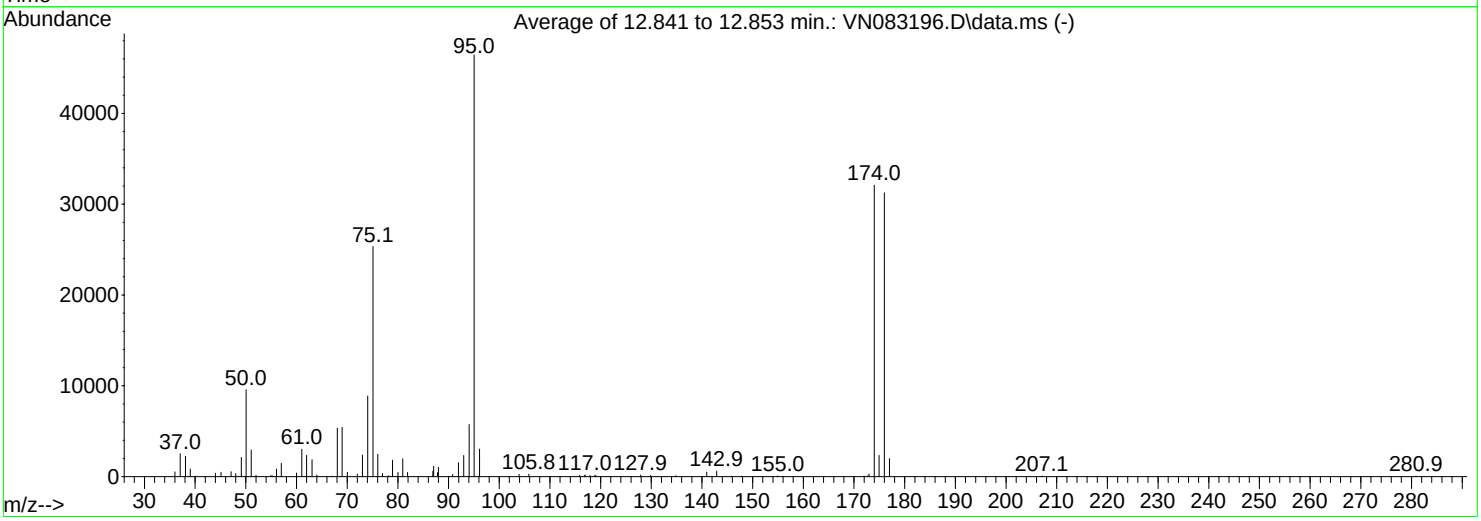
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081024\
Data File : VN083196.D
Acq On : 10 Aug 2024 09:22
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\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 Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.6	9568	PASS
75	95	30	60	54.6	25341	PASS
95	95	100	100	100.0	46448	PASS
96	95	5	9	6.5	3039	PASS
173	174	0.00	2	0.9	294	PASS
174	95	50	100	69.1	32104	PASS
175	174	5	9	7.3	2349	PASS
176	174	95	101	97.4	31261	PASS
177	176	5	9	6.4	1987	PASS

Average of 12.841 to 12.853 min.: VN083196.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	532	51.05	2947	67.00	56	78.95	180
37.05	2515	52.00	145	68.05	5338	80.00	48
38.10	2235	54.95	133	69.00	5435	80.95	197
39.05	855	55.20	81	70.05	479	81.90	46
40.05	79	56.05	843	72.00	289	86.90	607
44.00	369	57.00	1460	73.00	2380	87.05	1131
45.10	468	60.00	411	74.05	8877	87.80	437
47.10	538	61.05	3011	75.10	25341	88.00	1028
48.00	333	62.00	2343	76.05	2466	90.80	242
49.10	2109	63.05	1861	76.95	351	91.95	1540
50.05	9568	64.00	195	78.20	108	93.00	2320

Instrument :
MSVOA_N
ClientSampleId :
BFB

Average of 12.841 to 12.853 min.: VN083196.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.05	5742	127.90	174	172.95	294		
95.05	46448	129.85	124	174.00	32104		
96.10	3039	134.85	112	174.95	2349		
103.90	263	140.95	488	176.00	31261		
105.85	266	142.90	617	177.00	1987		
115.85	149	145.90	57	207.10	65		
116.80	101	147.80	51	280.90	51		
116.95	194	154.80	54				
117.90	120	155.00	54				
118.80	92	172.00	73				
119.05	159	172.70	94				

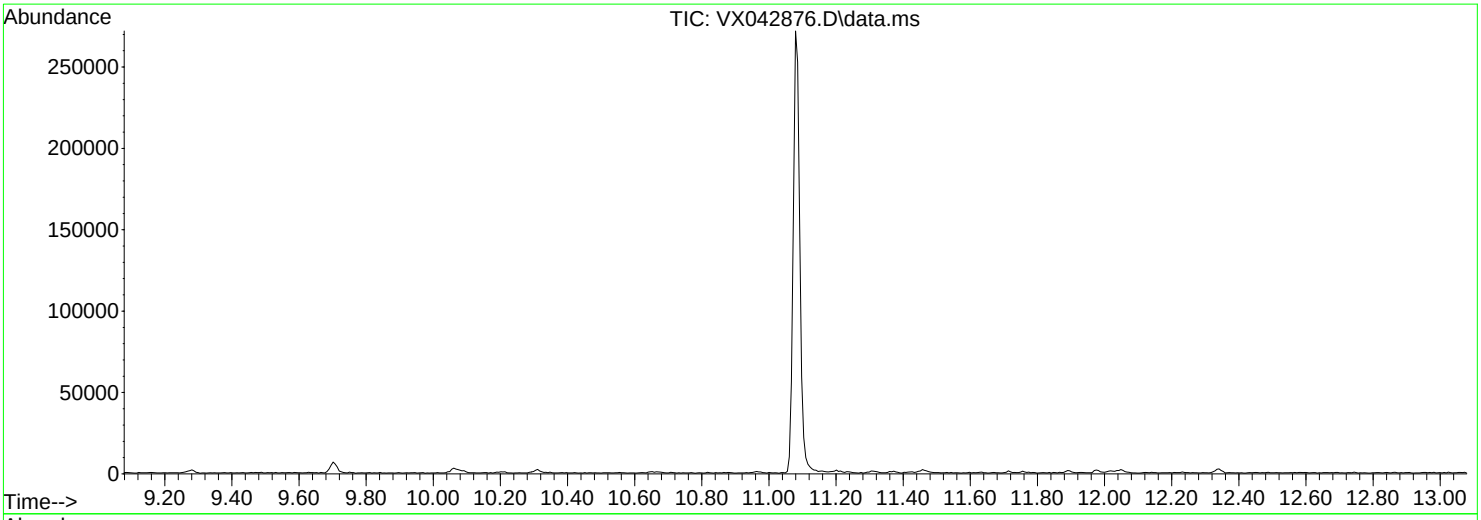
Sample Results: **VX042876.D**

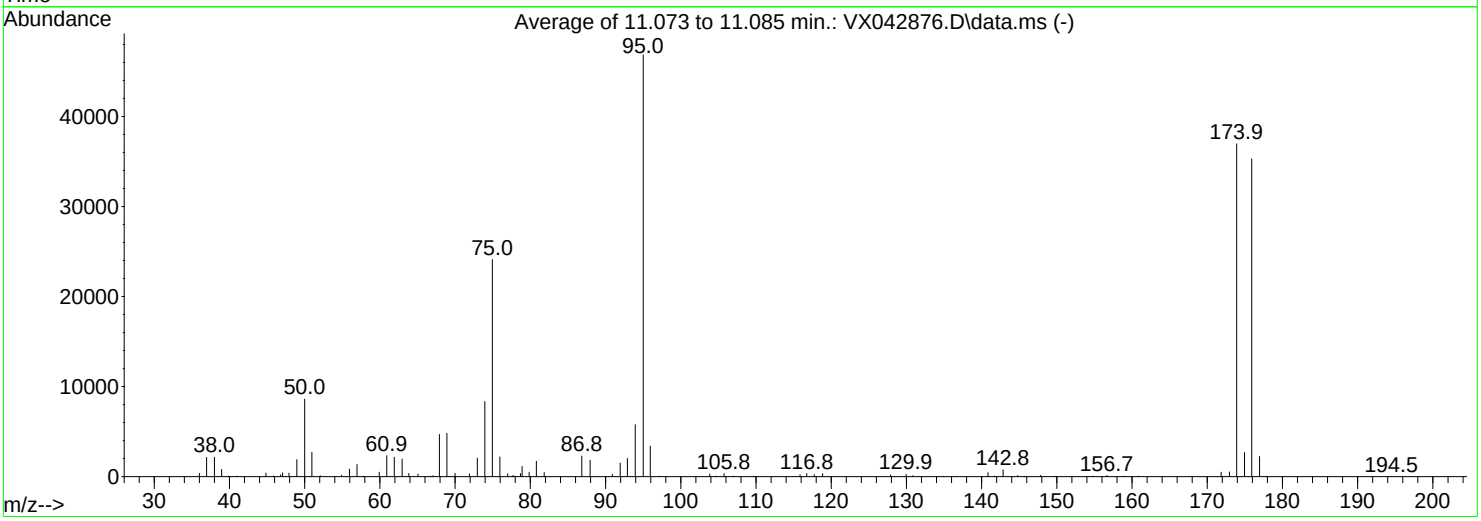
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080724\
Data File : VX042876.D
Acq On : 06 Aug 2024 17:07
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Title : SW846 8260
Last Update : Wed Aug 07 02:55:22 2024





AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.4	8600	PASS
75	95	30	60	51.5	24104	PASS
95	95	100	100	100.0	46843	PASS
96	95	5	9	7.2	3395	PASS
173	174	0.00	2	1.4	525	PASS
174	95	50	100	78.9	36968	PASS
175	174	5	9	7.3	2689	PASS
176	174	95	101	95.5	35291	PASS
177	176	5	9	6.4	2247	PASS

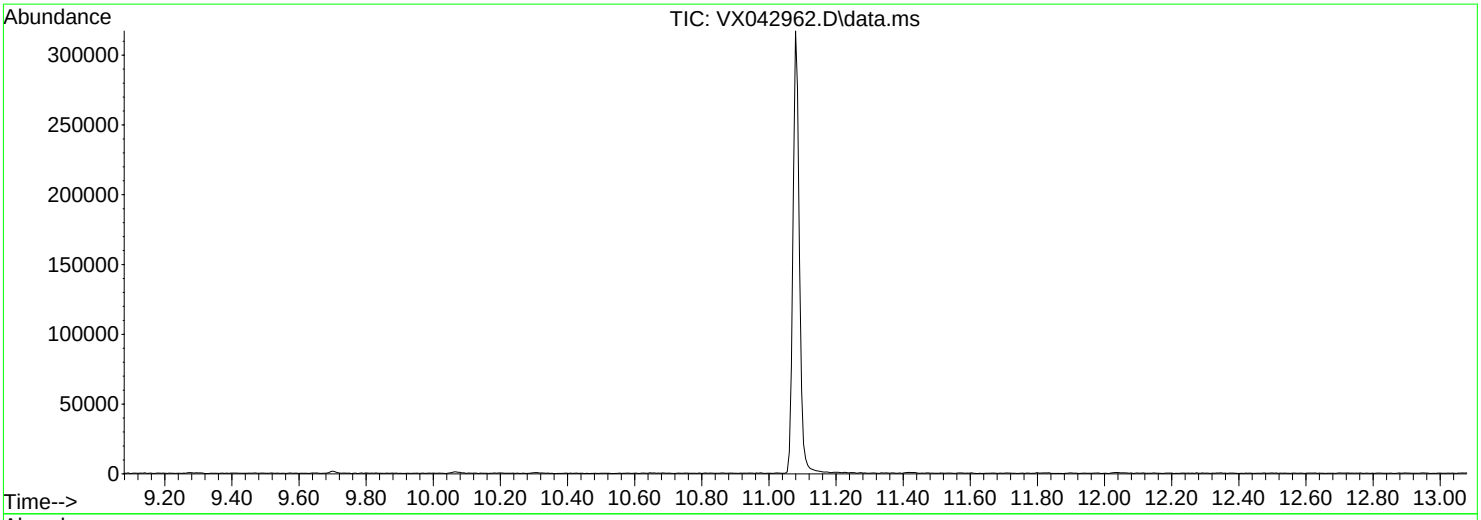
Sample Results: **VX042962.D**

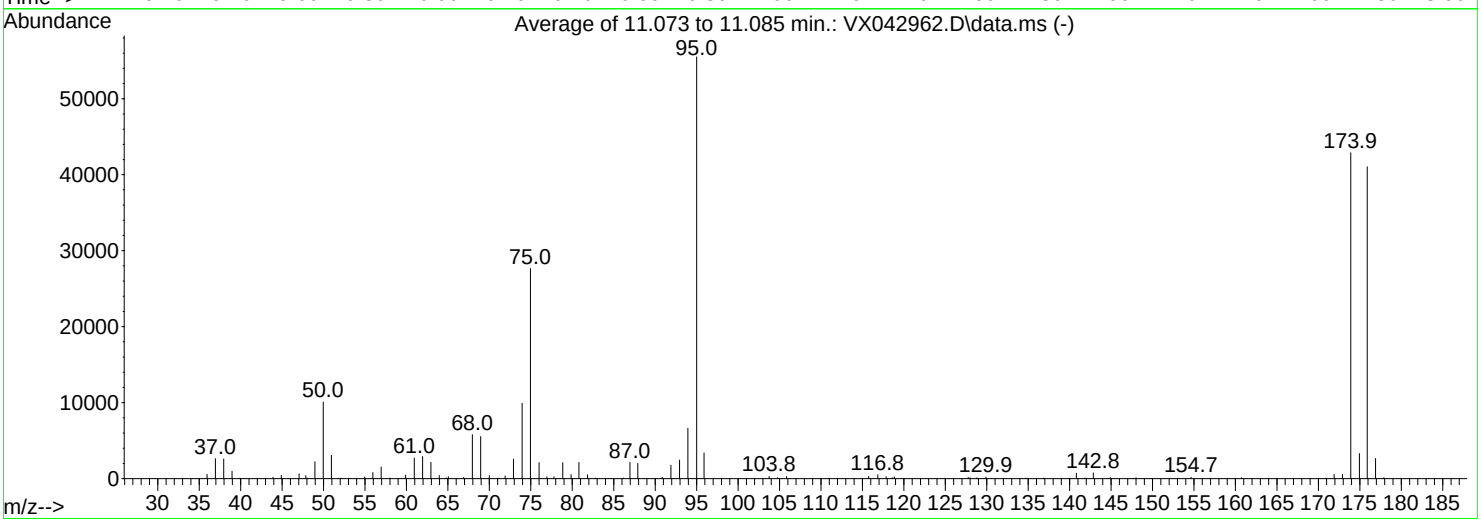
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080824\
Data File : VX042962.D
Acq On : 08 Aug 2024 23:48
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Title : SW846 8260
Last Update : Wed Aug 07 02:55:22 2024





AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1631

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.2	10082	PASS
75	95	30	60	49.8	27645	PASS
95	95	100	100	100.0	55512	PASS
96	95	5	9	6.1	3397	PASS
173	174	0.00	2	1.3	540	PASS
174	95	50	100	77.3	42891	PASS
175	174	5	9	7.7	3316	PASS
176	174	95	101	95.7	41043	PASS
177	176	5	9	6.5	2657	PASS

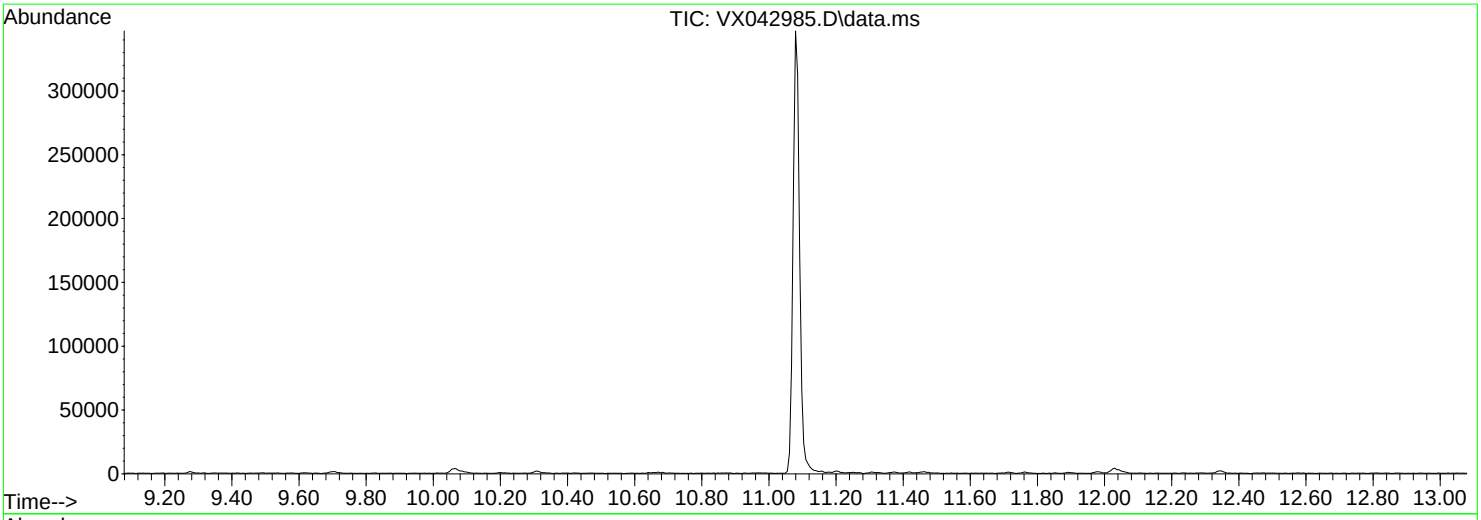
Sample Results: **VX042985.D**

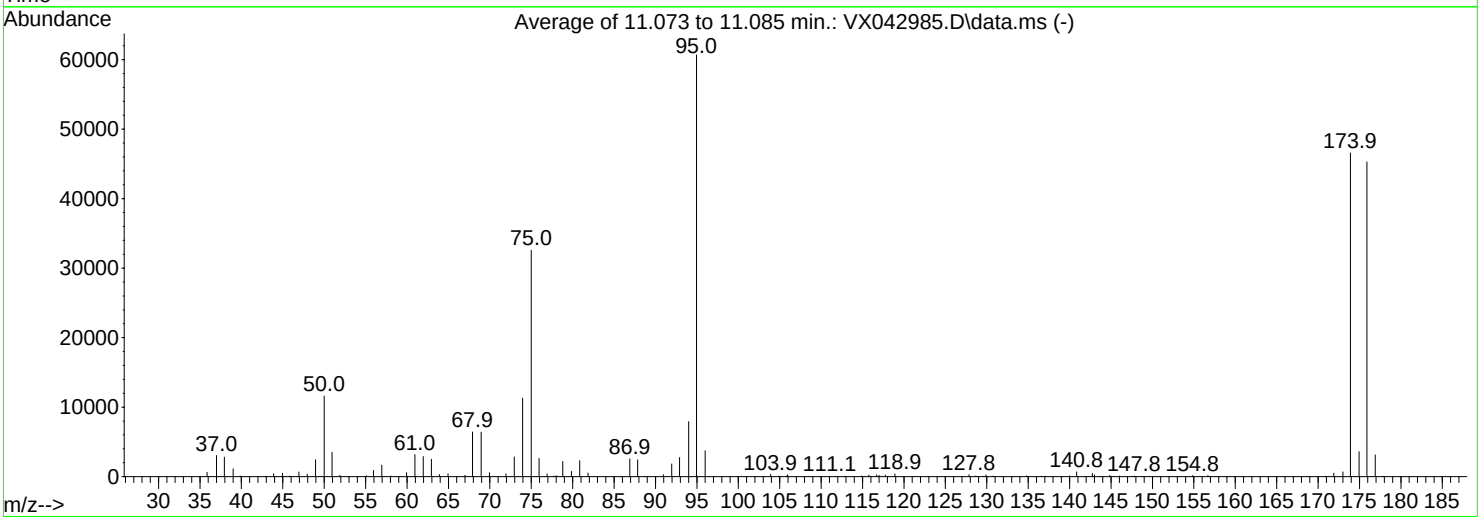
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080924\
Data File : VX042985.D
Acq On : 09 Aug 2024 10:32
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Title : SW846 8260
Last Update : Wed Aug 07 02:55:22 2024





AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.1	11610	PASS
75	95	30	60	53.7	32587	PASS
95	95	100	100	100.0	60691	PASS
96	95	5	9	6.1	3721	PASS
173	174	0.00	2	1.5	692	PASS
174	95	50	100	76.8	46584	PASS
175	174	5	9	7.7	3602	PASS
176	174	95	101	97.2	45277	PASS
177	176	5	9	6.9	3138	PASS

Raw Data: **VN083199.D**

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	VN0810WBL02	SDG No.:	P3457
Lab Sample ID:	VN0810WBL02	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
VN083199.D	1		08/10/24 11:34	VN081024

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

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	VN0810WBL02	SDG No.:	P3457
Lab Sample ID:	VN0810WBL02	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
VN083199.D	1		08/10/24 11:34	VN081024

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	57.2		70 (74) - 130 (125)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	53.0		70 (75) - 130 (124)	106%	SPK: 50
2037-26-5	Toluene-d8	53.4		70 (86) - 130 (113)	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.3		70 (77) - 130 (121)	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	125000	8.23			
540-36-3	1,4-Difluorobenzene	239000	9.1			
3114-55-4	Chlorobenzene-d5	237000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	101000	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\VN081024\
Data File : VN083199.D
Acq On : 10 Aug 2024 11:34
Operator : JC\MD
Sample : VN0810WBL02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBL02

Quant Time: Aug 12 01:47:04 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

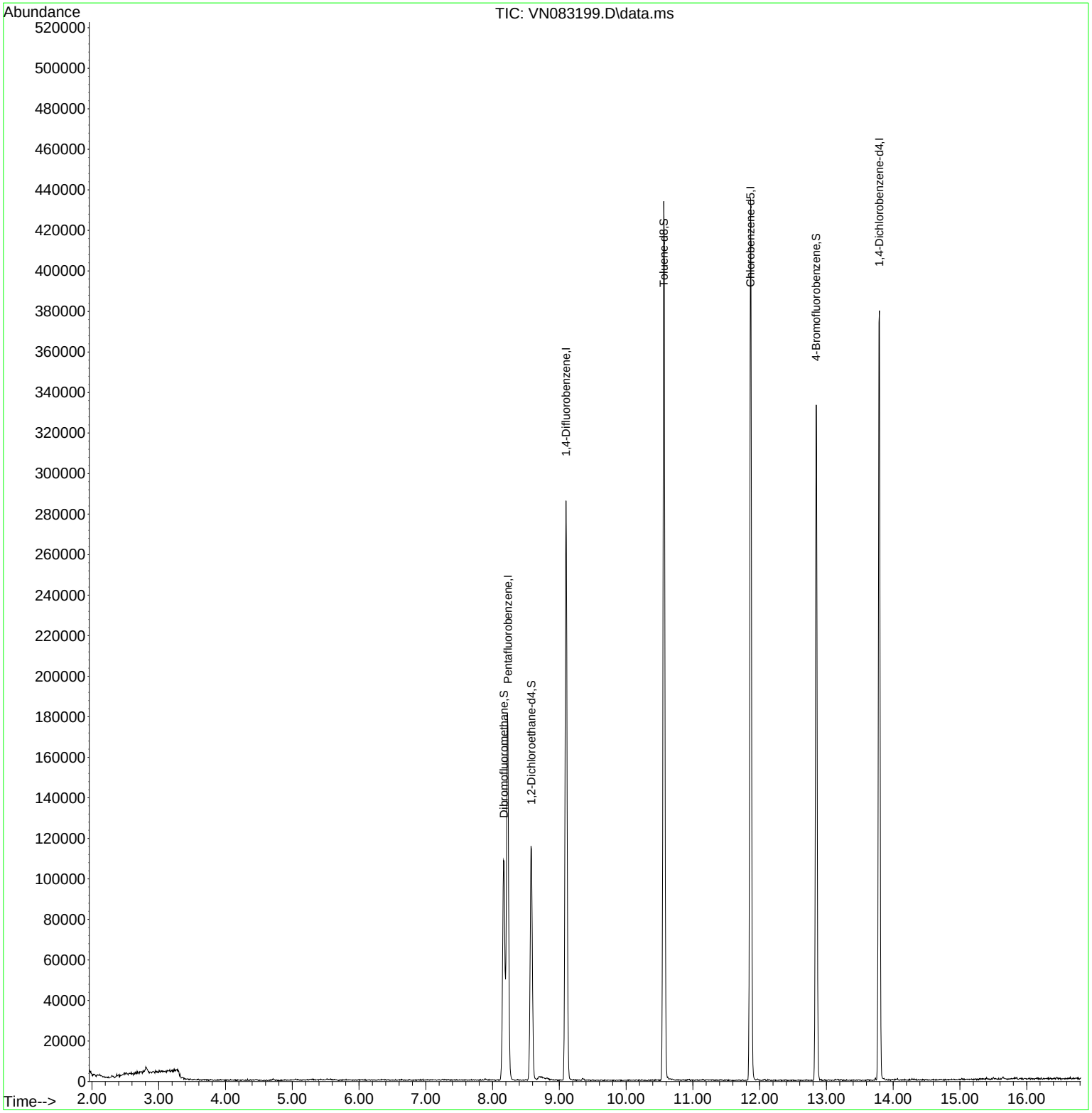
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	124598	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	239076	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	236621	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	101434	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	101449	57.202	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 114.400%			
35) Dibromofluoromethane	8.171	113	79036	52.964	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.920%			
50) Toluene-d8	10.565	98	297083	53.370	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.740%			
62) 4-Bromofluorobenzene	12.847	95	117788	54.277	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 108.560%			
Target Compounds						Qvalue

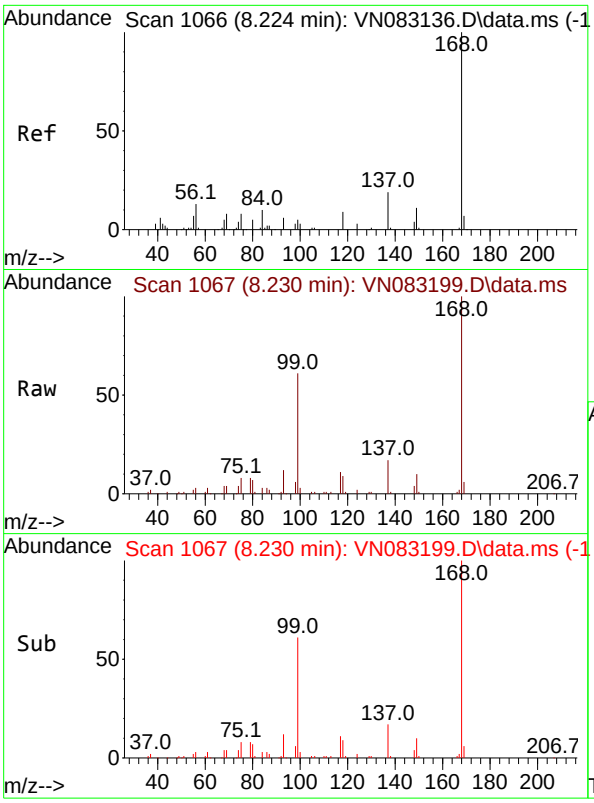
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081024\
Data File : VN083199.D
Acq On : 10 Aug 2024 11:34
Operator : JC\MD
Sample : VN0810WBL02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBL02

Quant Time: Aug 12 01:47:04 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



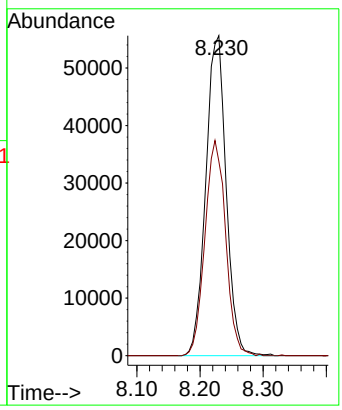


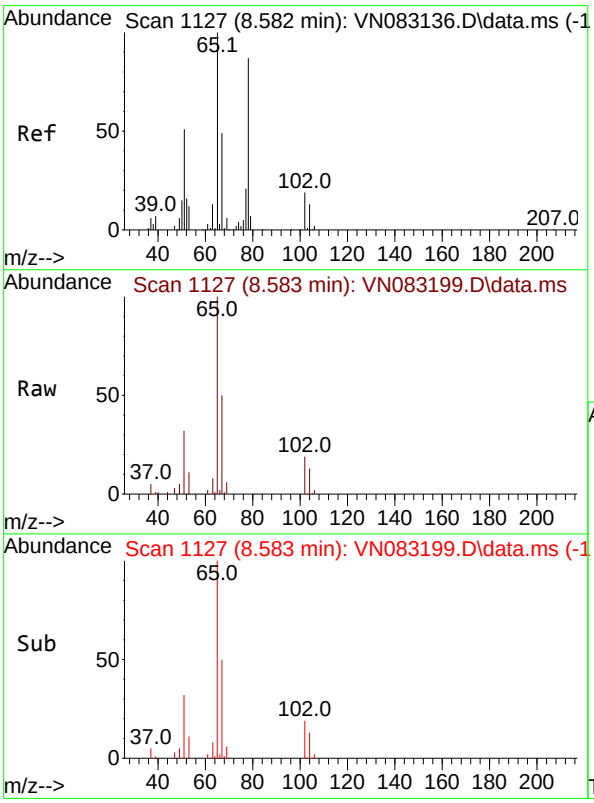
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083199.D
Acq: 10 Aug 2024 11:34

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBL02

Tgt Ion:168 Resp: 124598

Ion	Ratio	Lower	Upper
168	100		
99	60.8	48.2	72.4

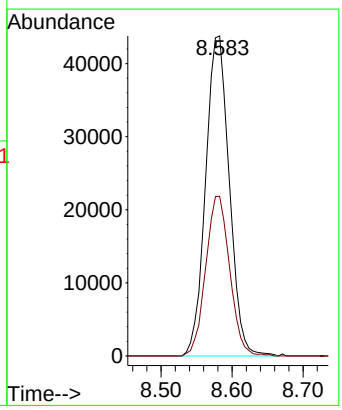


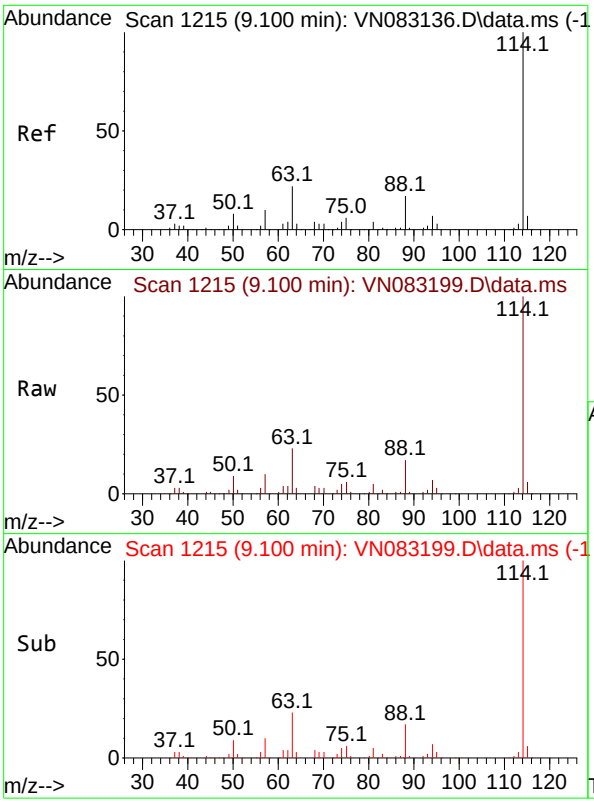


#33
1,2-Dichloroethane-d4
Concen: 57.202 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN083199.D
Acq: 10 Aug 2024 11:34

Tgt Ion: 65 Resp: 101449

Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	104.4



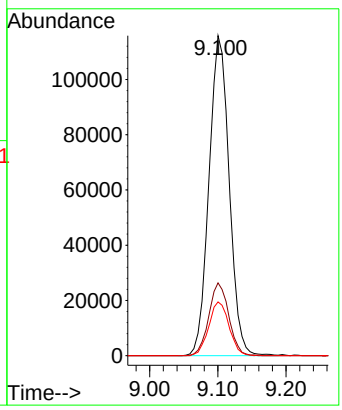


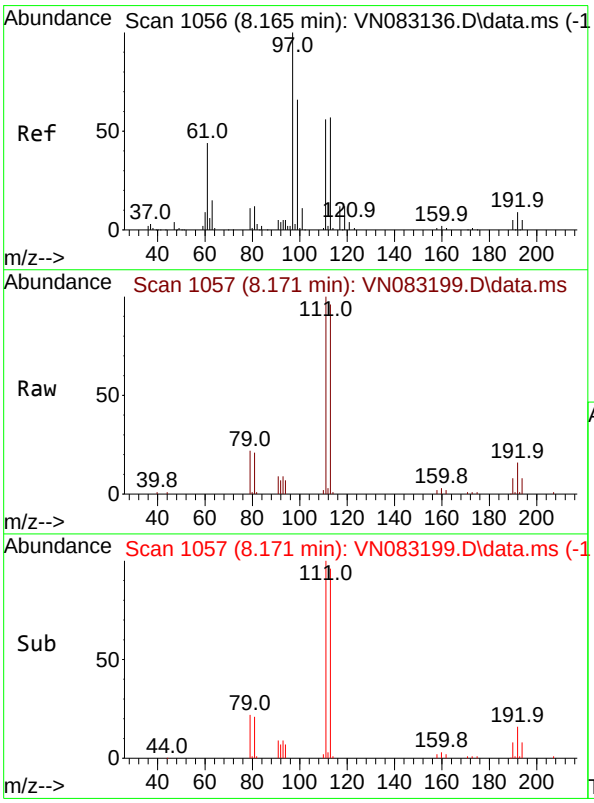
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083199.D
Acq: 10 Aug 2024 11:34

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBL02

Tgt Ion:114 Resp: 239076

Ion	Ratio	Lower	Upper
114	100		
63	22.7	0.0	44.6
88	16.8	0.0	31.4

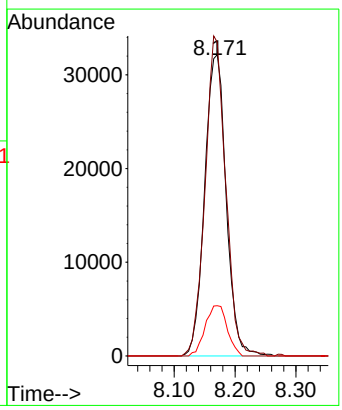


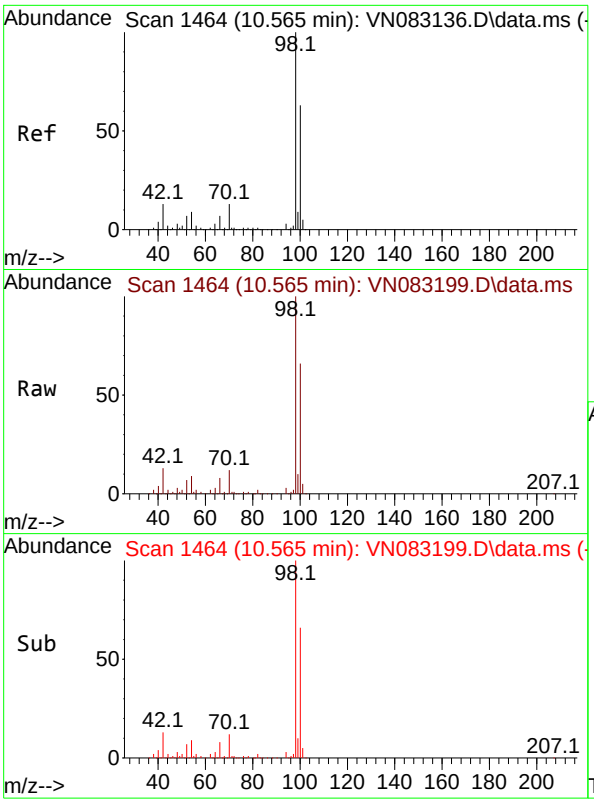


#35
Dibromofluoromethane
Concen: 52.964 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN083199.D
Acq: 10 Aug 2024 11:34

Tgt Ion:113 Resp: 79036

Ion	Ratio	Lower	Upper
113	100		
111	101.7	82.4	123.6
192	17.0	14.9	22.3



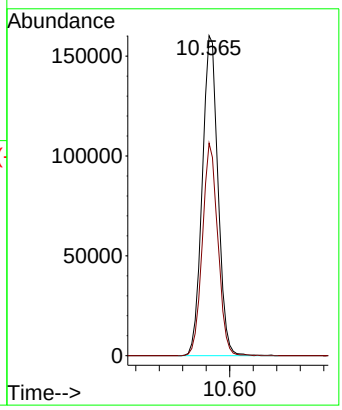


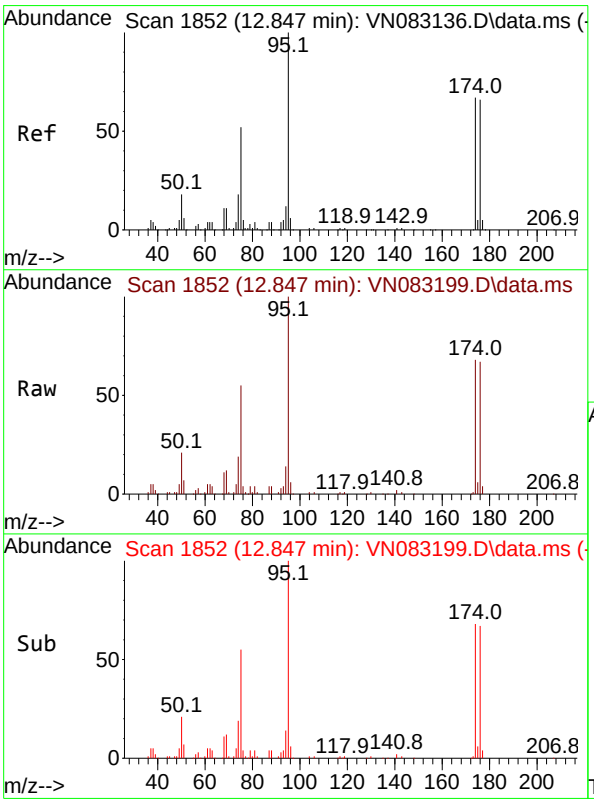
#50
Toluene-d8
Concen: 53.370 ug/l
RT: 10.565 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN083199.D
Acq: 10 Aug 2024 11:34

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBL02

Tgt Ion: 98 Resp: 297083

Ion	Ratio	Lower	Upper
98	100		
100	65.3	51.5	77.3

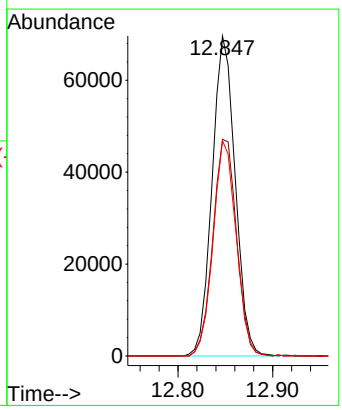


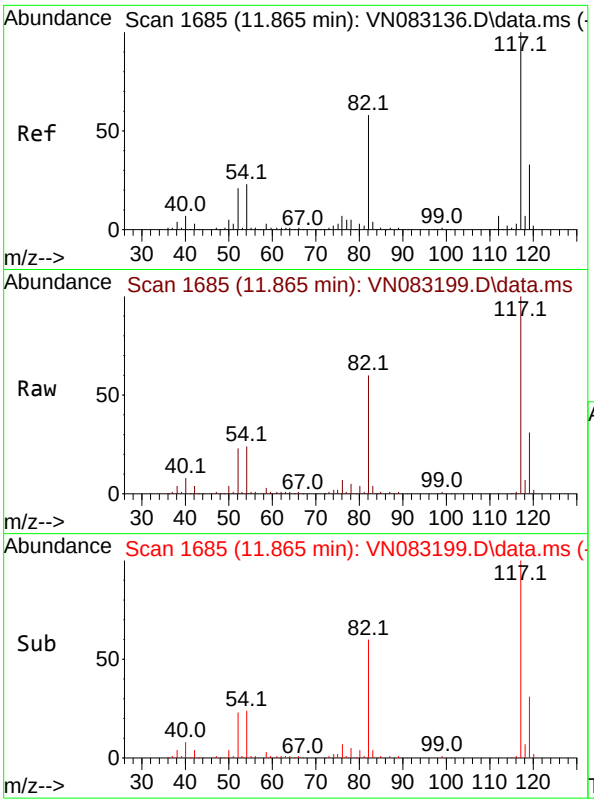


#62
4-Bromofluorobenzene
Concen: 54.277 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083199.D
Acq: 10 Aug 2024 11:34

Tgt Ion: 95 Resp: 117788

Ion	Ratio	Lower	Upper
95	100		
174	69.8	0.0	159.2
176	67.2	0.0	147.6



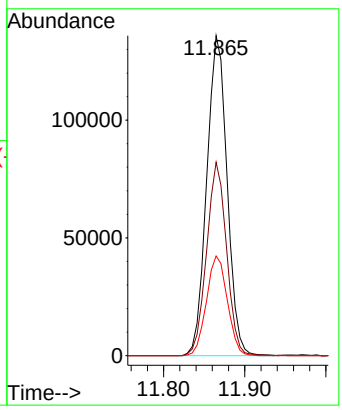


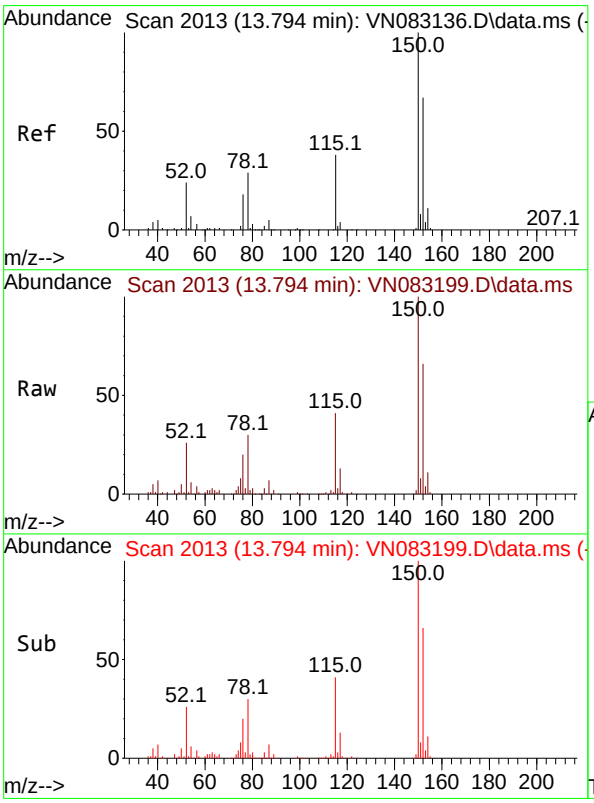
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083199.D
Acq: 10 Aug 2024 11:34

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBL02

Tgt Ion:117 Resp: 236621

Ion	Ratio	Lower	Upper
117	100		
82	60.5	47.5	71.3
119	31.2	25.6	38.4

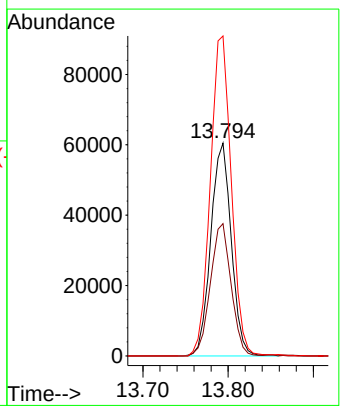




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083199.D
Acq: 10 Aug 2024 11:34

Tgt Ion:152 Resp: 101434

Ion	Ratio	Lower	Upper
152	100		
115	62.7	30.6	91.6
150	154.0	0.0	348.6



Raw Data: **VX042964.D**

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	VX0808WBL02	SDG No.:	P3457
Lab Sample ID:	VX0808WBL02	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX042964.D	1		08/09/24 01:48	VX080824

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

Raw Data: **VX042964.D**

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	VX0808WBL02	SDG No.:	P3457
Lab Sample ID:	VX0808WBL02	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX042964.D	1		08/09/24 01:48	VX080824

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	55.4		70 (74) - 130 (125)	111%	SPK: 50
1868-53-7	Dibromofluoromethane	51.3		70 (75) - 130 (124)	103%	SPK: 50
2037-26-5	Toluene-d8	49.6		70 (86) - 130 (113)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.1		70 (77) - 130 (121)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	150000	5.549			
540-36-3	1,4-Difluorobenzene	283000	6.763			
3114-55-4	Chlorobenzene-d5	268000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	110000	12.024			

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_X\Data\VX080824\
Data File : VX042964.D
Acq On : 09 Aug 2024 01:48
Operator : JC/MD
Sample : VX0808WBL02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0808WBL02

Quant Time: Aug 09 05:47:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.549	168	150400	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	282725	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	268240	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	109749	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	114393	55.404	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 110.800%			
35) Dibromofluoromethane	5.385	113	94903	51.338	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.680%			
50) Toluene-d8	8.646	98	325665	49.625	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 99.240%			
62) 4-Bromofluorobenzene	11.079	95	115848	49.125	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 98.240%			

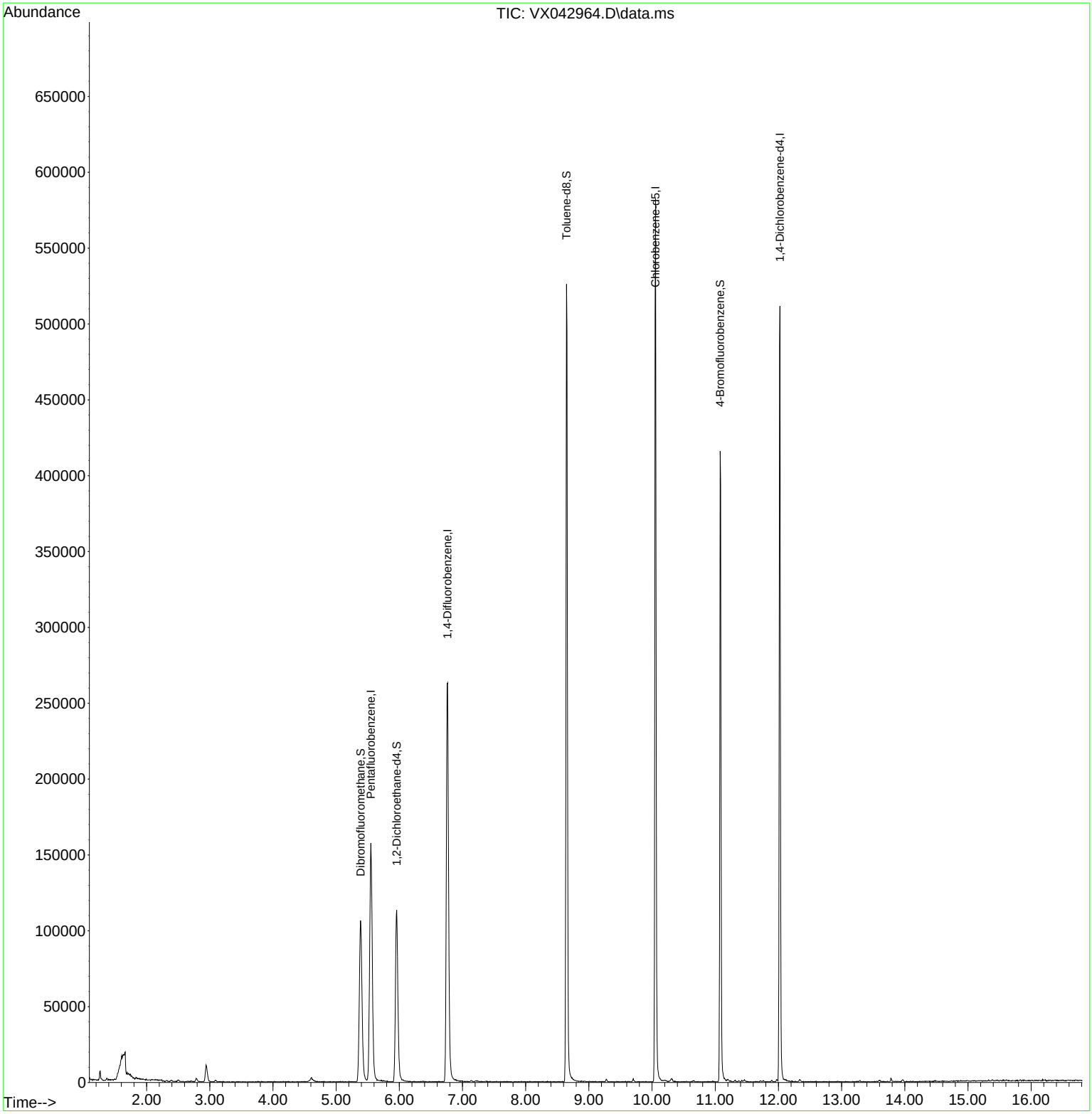
Target Compounds Qvalue

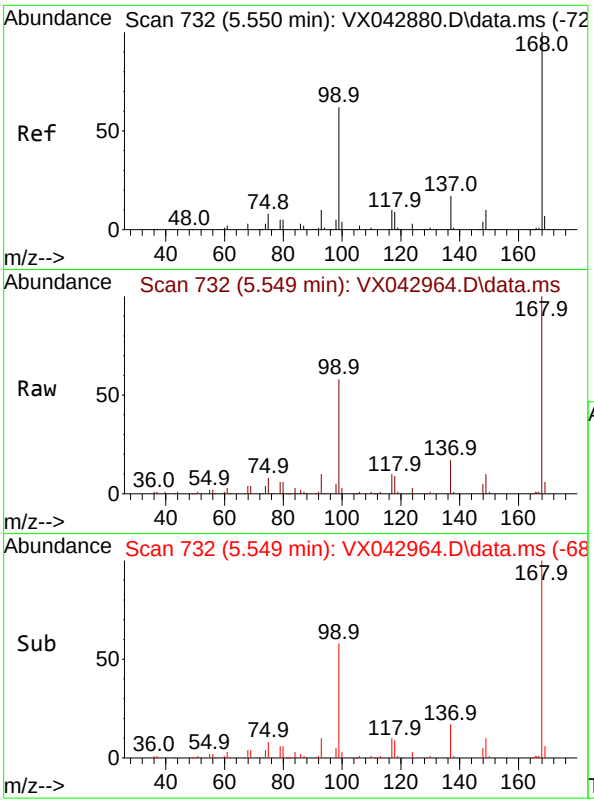
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080824\
Data File : VX042964.D
Acq On : 09 Aug 2024 01:48
Operator : JC/MD
Sample : VX0808WBL02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0808WBL02

Quant Time: Aug 09 05:47:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 2024
Response via : Initial Calibration



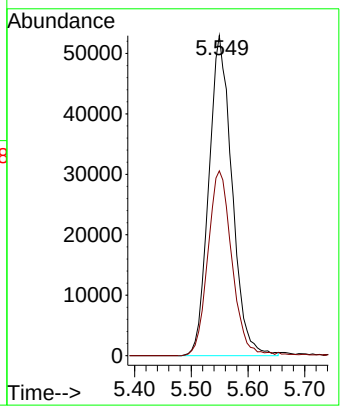


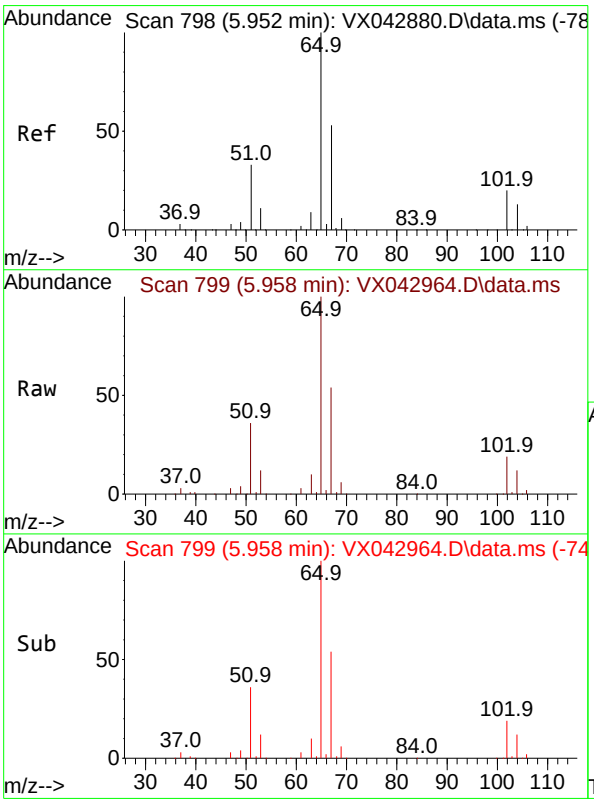
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.549 min Scan# 7
Delta R.T. -0.001 min
Lab File: VX042964.D
Acq: 09 Aug 2024 01:48

Instrument :
MSVOA_X
ClientSampleId :
VX0808WBL02

Tgt Ion:168 Resp: 150400

Ion	Ratio	Lower	Upper
168	100		
99	57.8	56.6	85.0

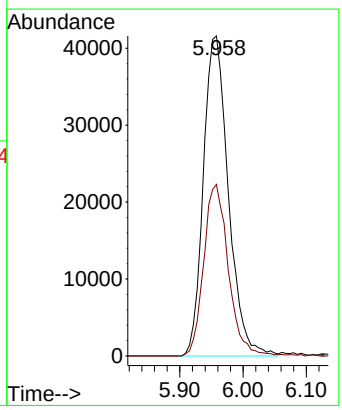


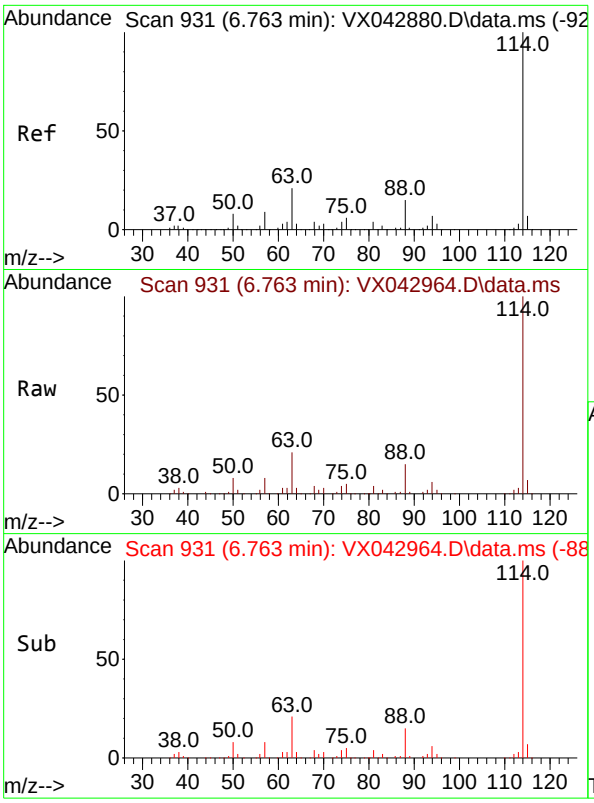


#33
1,2-Dichloroethane-d4
Concen: 55.404 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.006 min
Lab File: VX042964.D
Acq: 09 Aug 2024 01:48

Tgt Ion: 65 Resp: 114393

Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	100.2



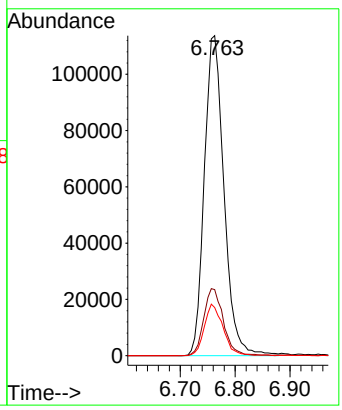


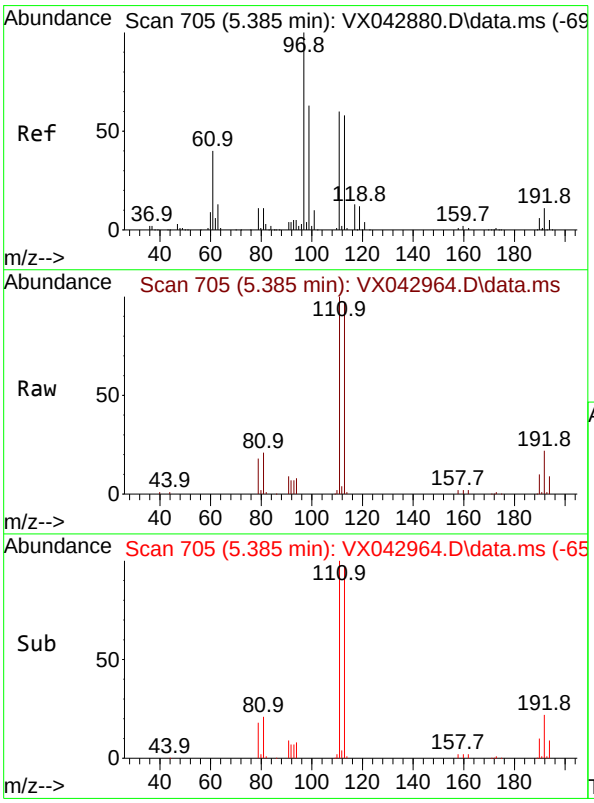
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX042964.D
Acq: 09 Aug 2024 01:48

Instrument :
MSVOA_X
ClientSampleId :
VX0808WBL02

Tgt Ion:114 Resp: 282725

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	45.0
88	15.0	0.0	36.6

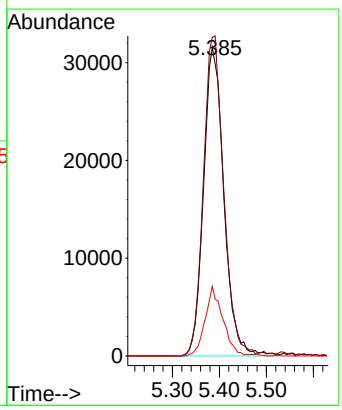


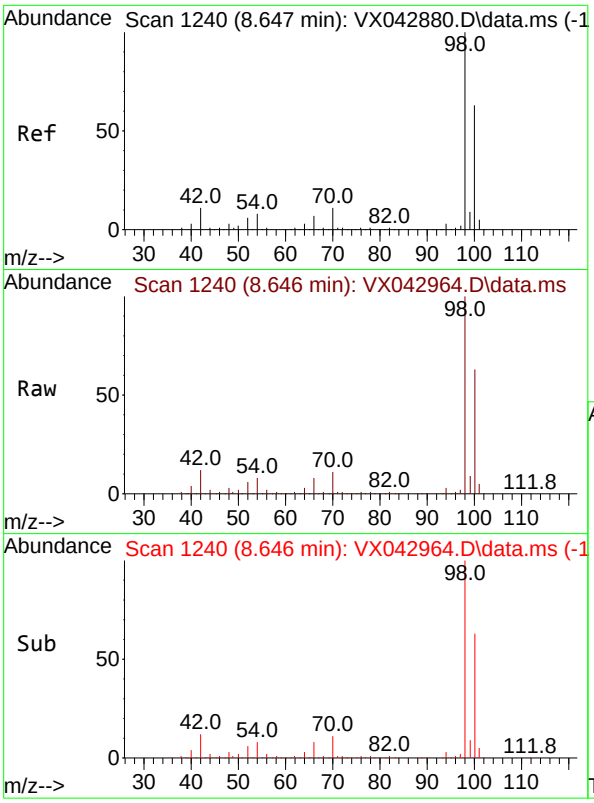


#35
Dibromofluoromethane
Concen: 51.338 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX042964.D
Acq: 09 Aug 2024 01:48

Tgt Ion:113 Resp: 94903

Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.9	124.3
192	19.6	13.3	19.9



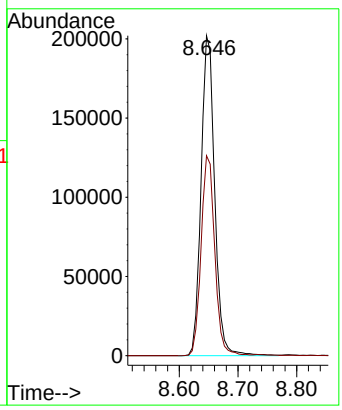


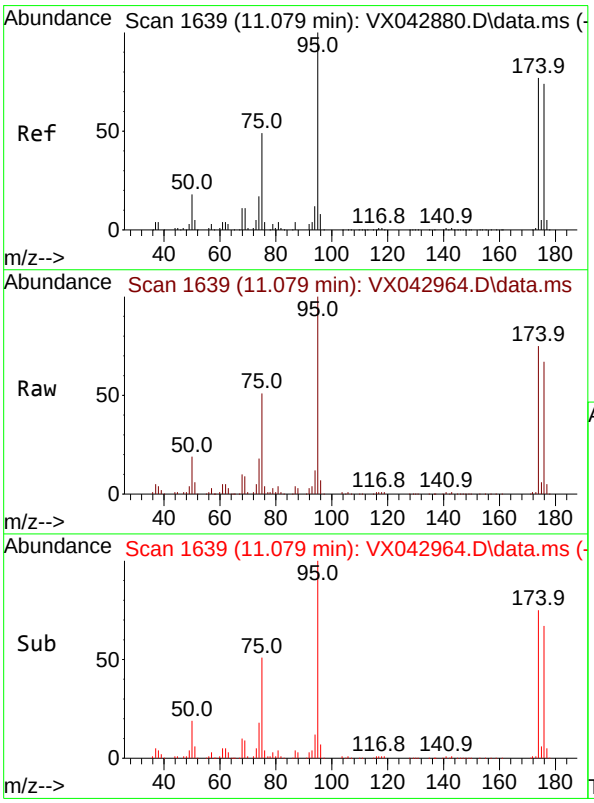
#50
Toluene-d8
Concen: 49.625 ug/l
RT: 8.646 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042964.D
Acq: 09 Aug 2024 01:48

Instrument :
MSVOA_X
ClientSampleId :
VX0808WBL02

Tgt Ion: 98 Resp: 325665

Ion	Ratio	Lower	Upper
98	100		
100	62.9	53.1	79.7

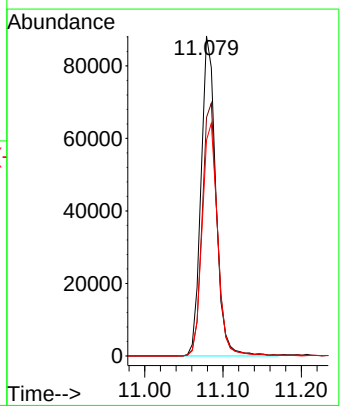


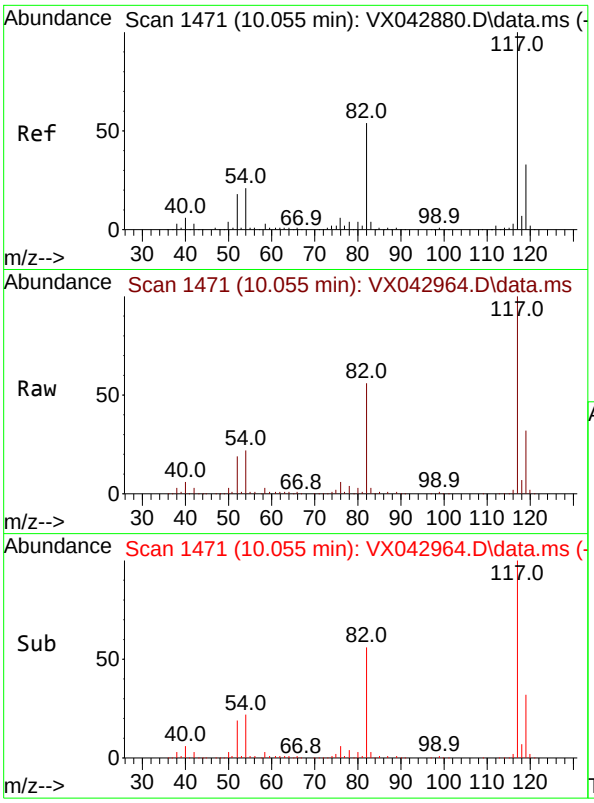


#62
4-Bromofluorobenzene
Concen: 49.125 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX042964.D
Acq: 09 Aug 2024 01:48

Tgt Ion: 95 Resp: 115848

Ion	Ratio	Lower	Upper
95	100		
174	80.8	0.0	135.6
176	76.2	0.0	131.0



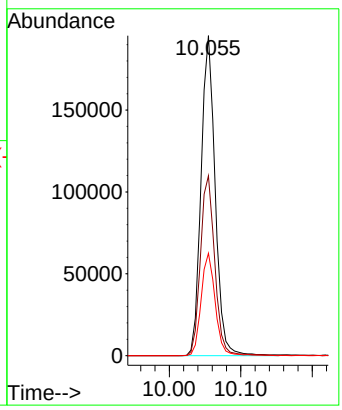


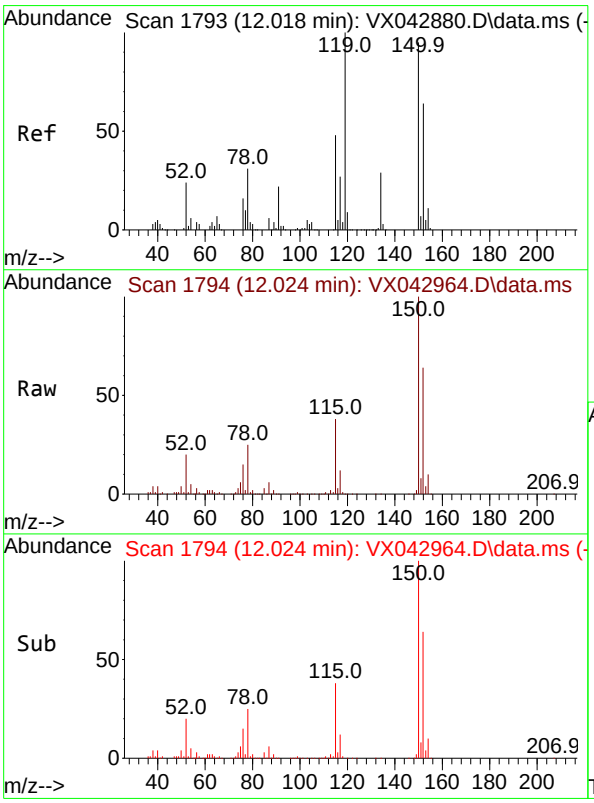
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX042964.D
Acq: 09 Aug 2024 01:48

Instrument :
MSVOA_X
ClientSampleId :
VX0808WBL02

Tgt Ion:117 Resp: 268240

Ion	Ratio	Lower	Upper
117	100		
82	56.2	46.2	69.4
119	32.0	25.5	38.3

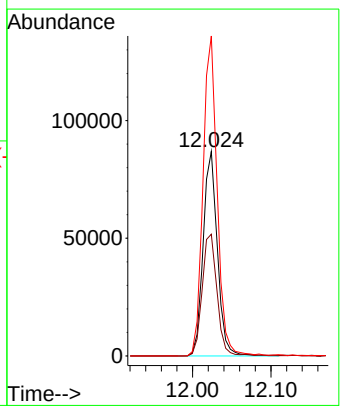




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX042964.D
Acq: 09 Aug 2024 01:48

Tgt Ion:152 Resp: 109749

Ion	Ratio	Lower	Upper
152	100		
115	62.2	43.3	129.9
150	155.4	0.0	345.0



Raw Data: **VX042988.D**

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	VX0809WBL01	SDG No.:	P3457
Lab Sample ID:	VX0809WBL01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX042988.D	1		08/09/24 11:52	VX080924

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

Raw Data: **VX042988.D**

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	VX0809WBL01	SDG No.:	P3457
Lab Sample ID:	VX0809WBL01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX042988.D	1		08/09/24 11:52	VX080924

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	50.4		70 (74) - 130 (125)	101%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		70 (75) - 130 (124)	100%	SPK: 50
2037-26-5	Toluene-d8	52.1		70 (86) - 130 (113)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.3		70 (77) - 130 (121)	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	187000	5.55			
540-36-3	1,4-Difluorobenzene	300000	6.763			
3114-55-4	Chlorobenzene-d5	269000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	119000	12.024			

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_X\Data\VX080924\
Data File : VX042988.D
Acq On : 09 Aug 2024 11:52
Operator : JC/MD
Sample : VX0809WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0809WBL01

Quant Time: Aug 09 16:26:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 2024
Response via : Initial Calibration

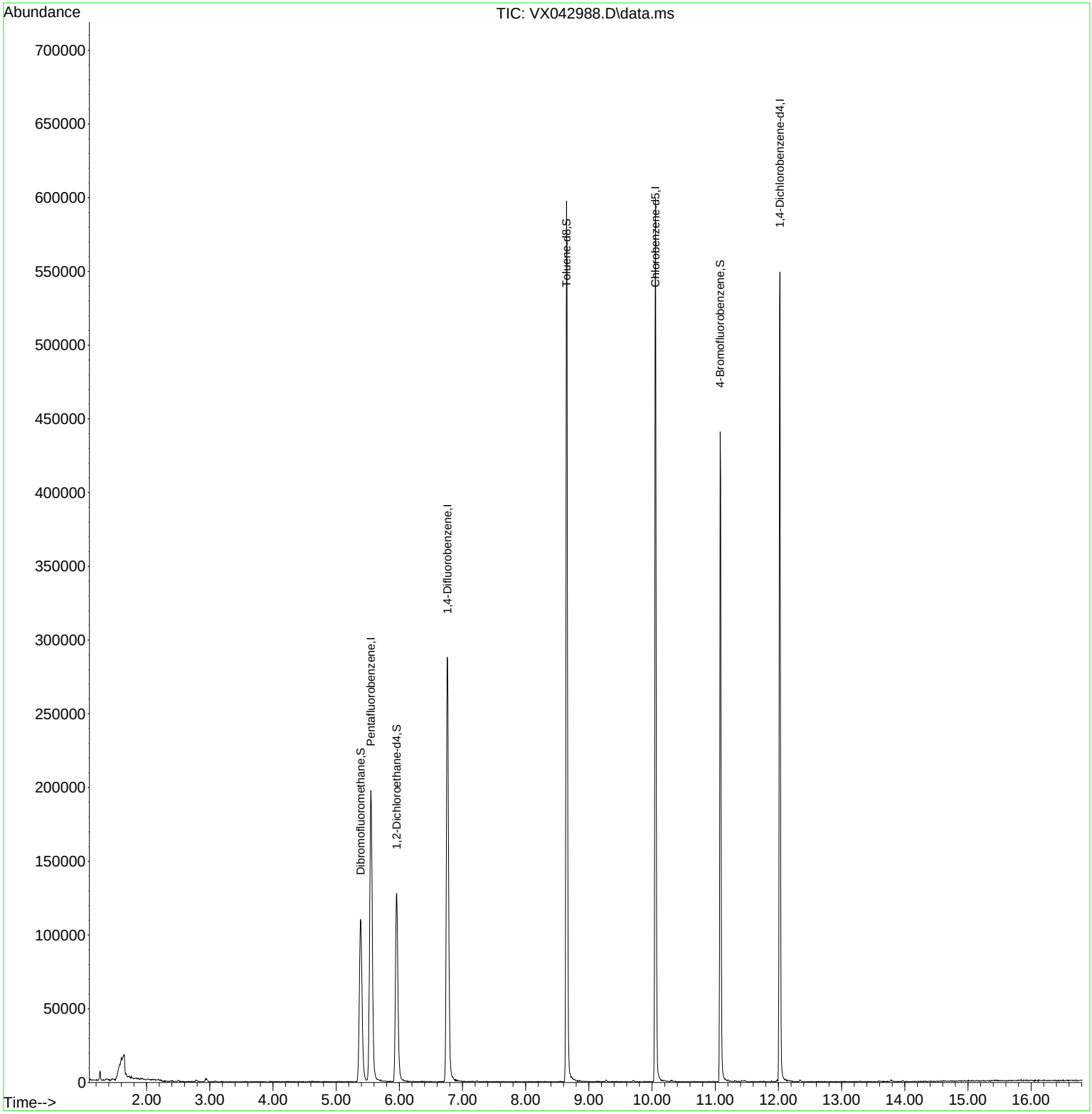
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	186614	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	300238	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	269204	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	119442	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	129016	50.361	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 100.720%			
35) Dibromofluoromethane	5.385	113	98581	50.217	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.440%			
50) Toluene-d8	8.647	98	362941	52.079	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 104.160%			
62) 4-Bromofluorobenzene	11.079	95	120842	48.254	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 96.500%			
Target Compounds						Qvalue

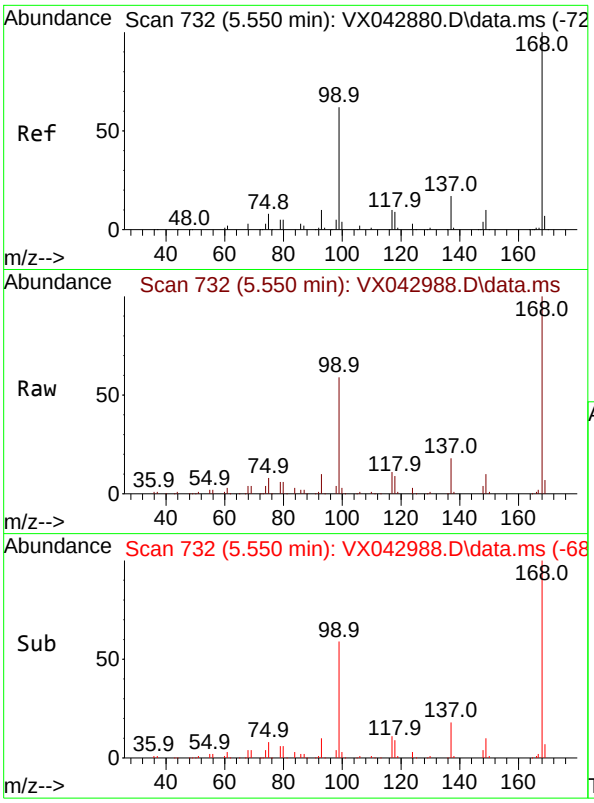
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080924\
Data File : VX042988.D
Acq On : 09 Aug 2024 11:52
Operator : JC/MD
Sample : VX0809WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0809WBL01

Quant Time: Aug 09 16:26:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 2024
Response via : Initial Calibration



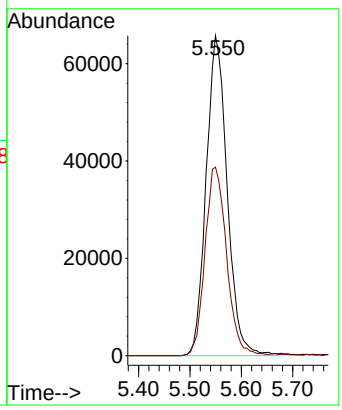


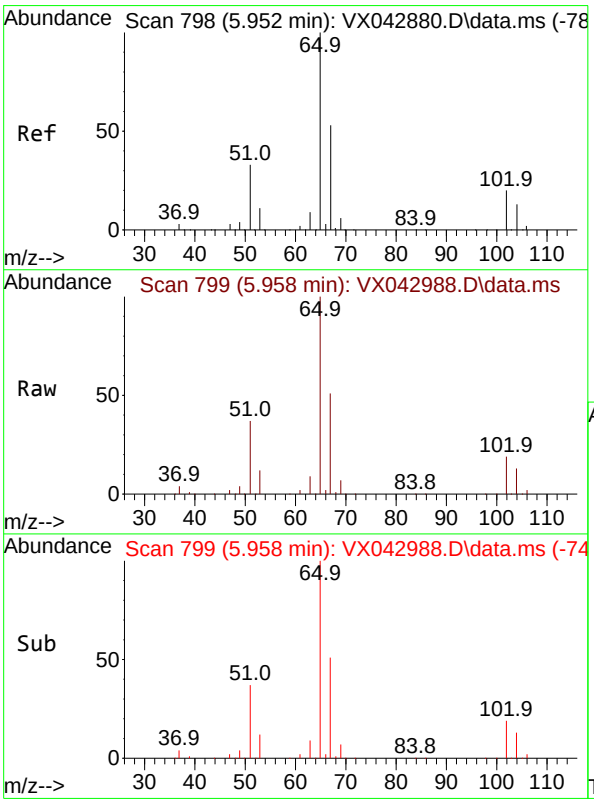
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX042988.D
Acq: 09 Aug 2024 11:52

Instrument :
MSVOA_X
ClientSampleId :
VX0809WBL01

Tgt Ion:168 Resp: 186614

Ion	Ratio	Lower	Upper
168	100		
99	58.9	56.6	85.0

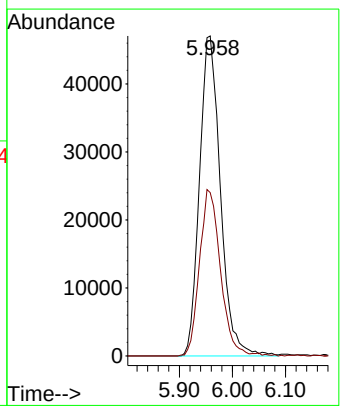


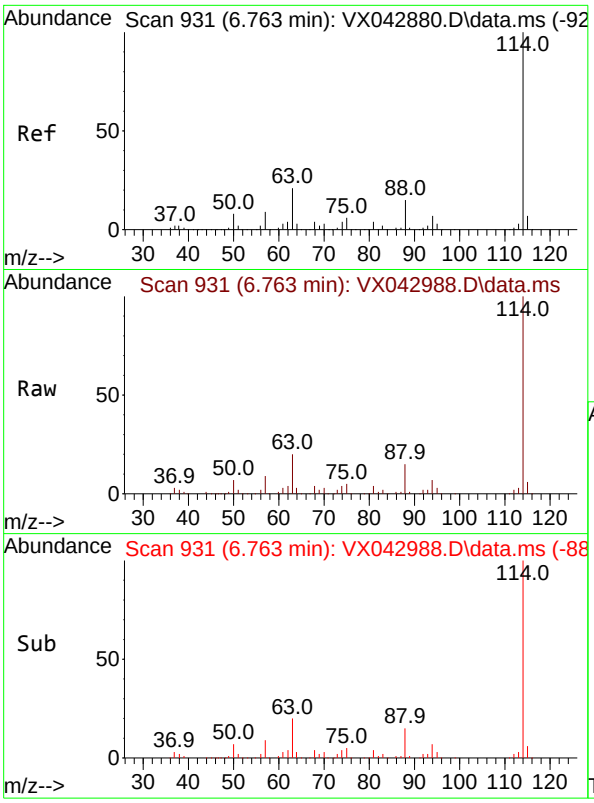


#33
1,2-Dichloroethane-d4
Concen: 50.361 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.006 min
Lab File: VX042988.D
Acq: 09 Aug 2024 11:52

Tgt Ion: 65 Resp: 129016

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	100.2



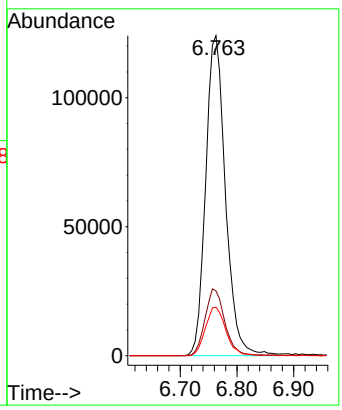


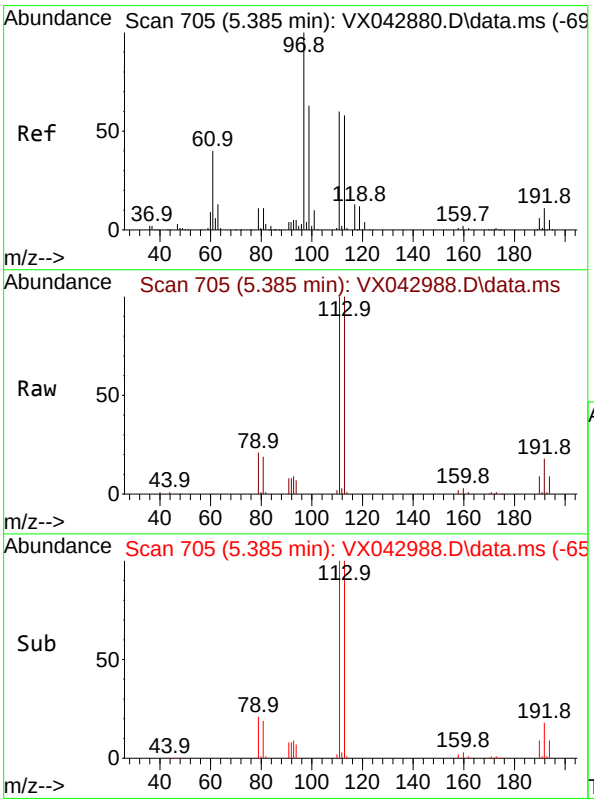
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX042988.D
Acq: 09 Aug 2024 11:52

Instrument :
MSVOA_X
ClientSampleId :
VX0809WBL01

Tgt Ion:114 Resp: 300238

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	45.0
88	15.2	0.0	36.6

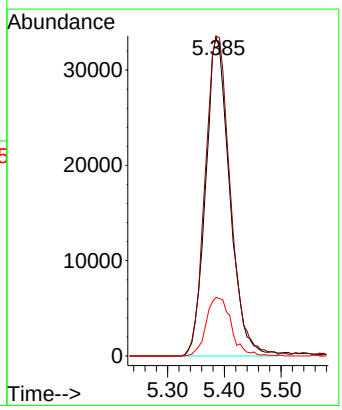


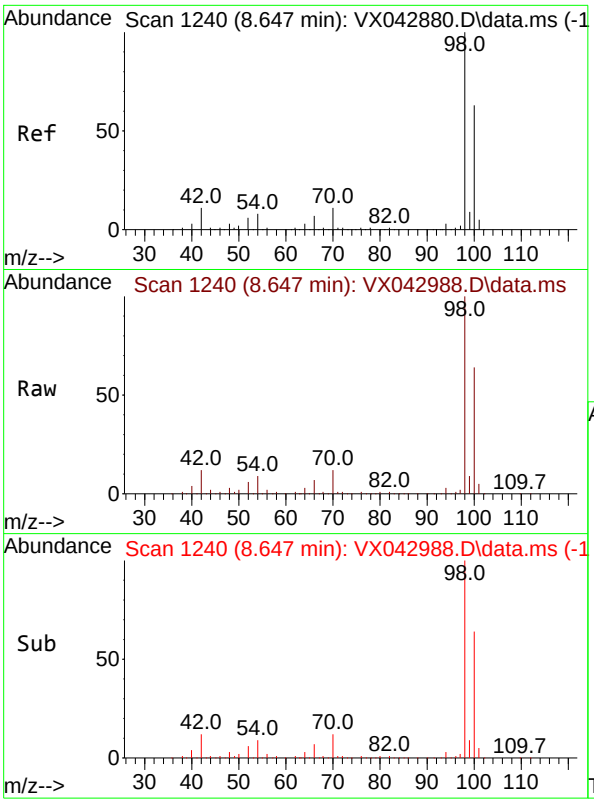


#35
Dibromofluoromethane
Concen: 50.217 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX042988.D
Acq: 09 Aug 2024 11:52

Tgt Ion:113 Resp: 98581

Ion	Ratio	Lower	Upper
113	100		
111	104.7	82.9	124.3
192	19.1	13.3	19.9



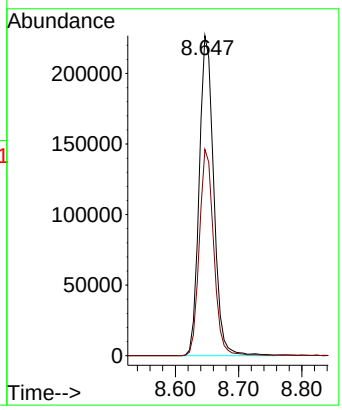


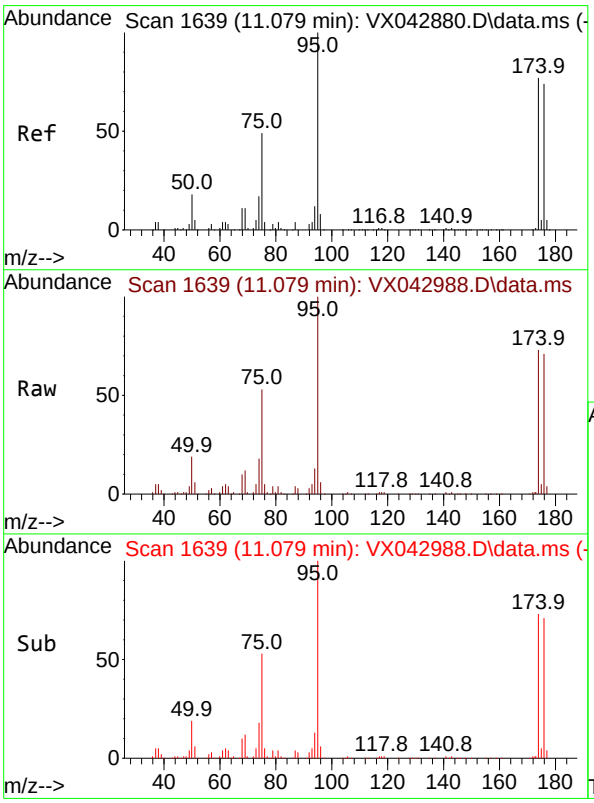
#50
Toluene-d8
Concen: 52.079 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042988.D
Acq: 09 Aug 2024 11:52

Instrument :
MSVOA_X
ClientSampleId :
VX0809WBL01

Tgt Ion: 98 Resp: 362941

Ion	Ratio	Lower	Upper
98	100		
100	63.9	53.1	79.7

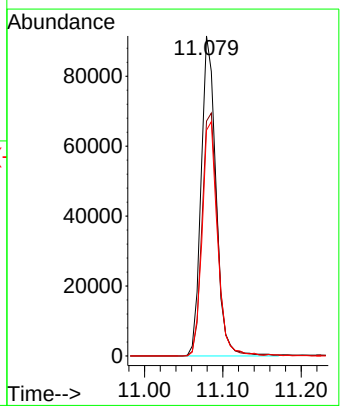


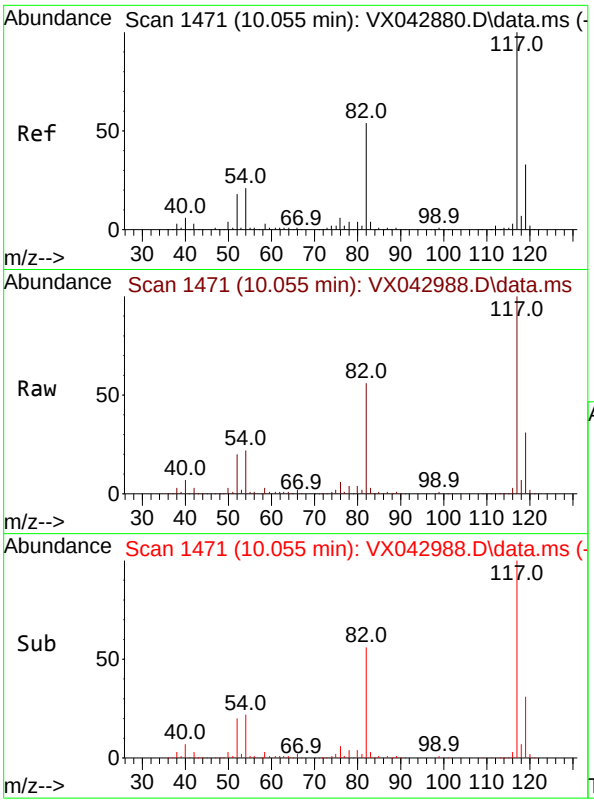


#62
4-Bromofluorobenzene
Concen: 48.254 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX042988.D
Acq: 09 Aug 2024 11:52

Tgt Ion: 95 Resp: 120842

Ion	Ratio	Lower	Upper
95	100		
174	79.9	0.0	135.6
176	75.4	0.0	131.0



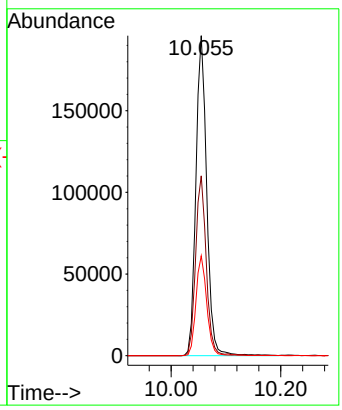


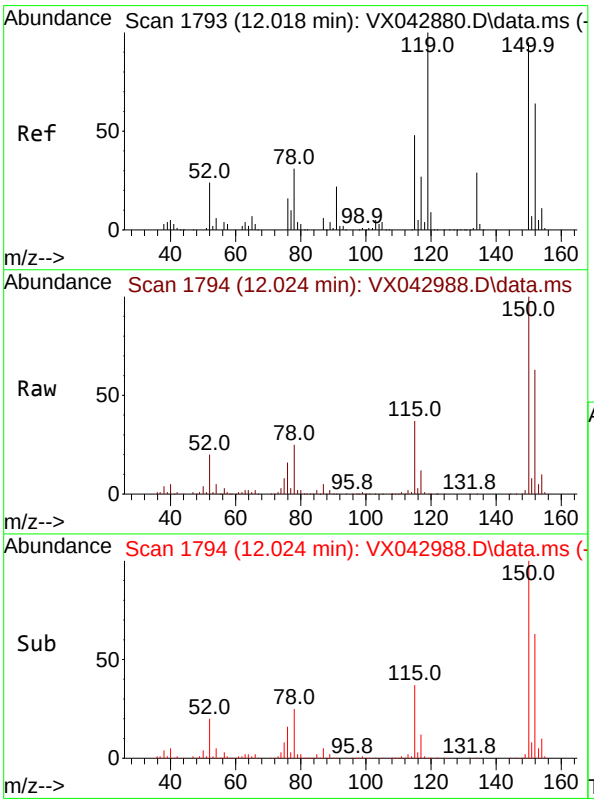
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX042988.D
Acq: 09 Aug 2024 11:52

Instrument :
MSVOA_X
ClientSampleId :
VX0809WBL01

Tgt Ion:117 Resp: 269204

Ion	Ratio	Lower	Upper
117	100		
82	56.2	46.2	69.4
119	31.2	25.5	38.3

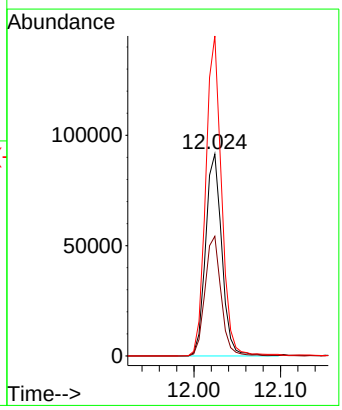




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX042988.D
Acq: 09 Aug 2024 11:52

Tgt Ion:152 Resp: 119442

Ion	Ratio	Lower	Upper
152	100		
115	58.6	43.3	129.9
150	154.2	0.0	345.0



Raw Data: **VN083200.D**

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	VN0810WBS01	SDG No.:	P3457
Lab Sample ID:	VN0810WBS01	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
VN083200.D	1		08/10/24 11:58	VN081024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.2		0.21	1.00	ug/L
74-87-3	Chloromethane	17.8		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	19.2		0.34	1.00	ug/L
74-83-9	Bromomethane	18.1		1.40	5.00	ug/L
75-00-3	Chloroethane	18.8		0.56	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.5		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.1		0.26	1.00	ug/L
67-64-1	Acetone	100		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	16.4		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.2		0.16	1.00	ug/L
75-09-2	Methylene Chloride	17.6		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.3		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.6		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.5		1.60	5.00	ug/L
78-93-3	2-Butanone	95.4		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.2		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.4		0.25	1.00	ug/L
67-66-3	Chloroform	20.0		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.8		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	18.2		0.19	1.00	ug/L
71-43-2	Benzene	19.0		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.8		0.24	1.00	ug/L
79-01-6	Trichloroethene	18.2		0.32	1.00	ug/L
75-27-4	Bromodichloromethane	19.1		0.24	1.00	ug/L
108-88-3	Toluene	18.9		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.7		0.21	1.00	ug/L
124-48-1	Dibromochloromethane	18.9		0.18	1.00	ug/L
127-18-4	Tetrachloroethene	18.3		0.25	1.00	ug/L
108-90-7	Chlorobenzene	18.6		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	18.8		0.16	1.00	ug/L

Raw Data: **VN083200.D**

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	VN0810WBS01	SDG No.:	P3457
Lab Sample ID:	VN0810WBS01	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
VN083200.D	1		08/10/24 11:58	VN081024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
179601-23-1	m/p-Xylenes	36.9		0.31	2.00	ug/L
1330-20-7	Total Xylenes	55.6		0.45	3.00	ug/L
95-47-6	o-Xylene	18.7		0.14	1.00	ug/L
98-82-8	Isopropylbenzene	18.9		0.13	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.2		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.3		0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.1		70 (74) - 130 (125)	112%	SPK: 50
1868-53-7	Dibromofluoromethane	52.3		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	52.3		70 (86) - 130 (113)	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.8		70 (77) - 130 (121)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	169000	8.224			
540-36-3	1,4-Difluorobenzene	296000	9.1			
3114-55-4	Chlorobenzene-d5	257000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	117000	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\VN081024\
Data File : VN083200.D
Acq On : 10 Aug 2024 11:58
Operator : JC\MD
Sample : VN0810WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 12 01:47:32 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

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	169456	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	295589	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	256697	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	116986	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	135275	56.084	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.160%			
35) Dibromofluoromethane	8.171	113	96449	52.276	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.560%			
50) Toluene-d8	10.565	98	359957	52.302	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.600%			
62) 4-Bromofluorobenzene	12.847	95	139086	51.837	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 103.680%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	36878	19.191	ug/l	97
3) Chloromethane	2.365	50	35112	17.847	ug/l	98
4) Vinyl Chloride	2.512	62	38472	19.164	ug/l	98
5) Bromomethane	2.954	94	22606	18.148	ug/l	86
6) Chloroethane	3.118	64	23631	18.815	ug/l	96
7) Trichlorofluoromethane	3.501	101	65150	19.645	ug/l	100
8) Diethyl Ether	3.965	74	22412	18.161	ug/l	90
9) 1,1,2-Trichlorotrifluo...	4.371	101	35654	19.500	ug/l	100
10) Methyl Iodide	4.589	142	42895	17.835	ug/l	98
11) Tert butyl alcohol	5.524	59	44552	88.880	ug/l #	83
12) 1,1-Dichloroethene	4.342	96	33943	18.070	ug/l	92
13) Acrolein	4.177	56	28438	87.048	ug/l	99
14) Allyl chloride	5.024	41	64907	18.285	ug/l	90
15) Acrylonitrile	5.718	53	96313	93.425	ug/l	99
16) Acetone	4.430	43	96276	102.007	ug/l	98
17) Carbon Disulfide	4.712	76	90074	16.388	ug/l	99
18) Methyl Acetate	5.024	43	53641	19.076	ug/l #	91
19) Methyl tert-butyl Ether	5.795	73	130467	19.242	ug/l	100
20) Methylene Chloride	5.277	84	38150	17.563	ug/l	83
21) trans-1,2-Dichloroethene	5.789	96	35588	18.330	ug/l	93
22) Diisopropyl ether	6.671	45	129101	19.348	ug/l	97
23) Vinyl Acetate	6.600	43	643705m	94.118	ug/l	
24) 1,1-Dichloroethane	6.571	63	71196	19.575	ug/l	98
25) 2-Butanone	7.483	43	138199	95.362	ug/l #	90
26) 2,2-Dichloropropane	7.494	77	66897	19.806	ug/l	98
27) cis-1,2-Dichloroethene	7.489	96	43163	18.424	ug/l	95
28) Bromochloromethane	7.818	49	30063	20.226	ug/l	88
29) Tetrahydrofuran	7.841	42	84975	90.707	ug/l #	86
30) Chloroform	7.965	83	75656	20.022	ug/l	100
31) Cyclohexane	8.259	56	65977	18.458	ug/l	94
32) 1,1,1-Trichloroethane	8.165	97	70683	19.762	ug/l	91
36) 1,1-Dichloropropene	8.371	75	52089	18.663	ug/l	99
37) Ethyl Acetate	7.559	43	54641	17.485	ug/l #	94
38) Carbon Tetrachloride	8.359	117	60402	19.215	ug/l	98
39) Methylcyclohexane	9.600	83	62304	18.175	ug/l	94
40) Benzene	8.606	78	157797	18.979	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081024\
Data File : VN083200.D
Acq On : 10 Aug 2024 11:58
Operator : JC\MD
Sample : VN0810WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 12 01:47:32 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

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	30487	17.158	ug/l		94
42) 1,2-Dichloroethane	8.671	62	59959	19.797	ug/l		99
43) Isopropyl Acetate	8.688	43	98660	16.747	ug/l	#	93
44) Trichloroethene	9.353	130	35945	18.163	ug/l		86
45) 1,2-Dichloropropane	9.624	63	38319	19.416	ug/l		96
46) Dibromomethane	9.712	93	27633	19.561	ug/l		100
47) Bromodichloromethane	9.888	83	60577	19.098	ug/l		98
48) Methyl methacrylate	9.682	41	46460	17.983	ug/l		94
49) 1,4-Dioxane	9.694	88	17078	366.403	ug/l		97
51) 4-Methyl-2-Pentanone	10.447	43	284886	96.405	ug/l		93
52) Toluene	10.630	92	99457	18.932	ug/l		98
53) t-1,3-Dichloropropene	10.835	75	61123	18.760	ug/l		94
54) cis-1,3-Dichloropropene	10.312	75	63904	18.440	ug/l		95
55) 1,1,2-Trichloroethane	11.018	97	37093	19.703	ug/l		96
56) Ethyl methacrylate	10.877	69	66666	18.784	ug/l		90
57) 1,3-Dichloropropane	11.165	76	65457	19.506	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	127028	84.673	ug/l		99
59) 2-Hexanone	11.194	43	216835	94.847	ug/l		93
60) Dibromochloromethane	11.359	129	43079	18.926	ug/l		98
61) 1,2-Dibromoethane	11.471	107	37299	18.860	ug/l		97
64) Tetrachloroethene	11.106	164	31159	18.328	ug/l		93
65) Chlorobenzene	11.894	112	105782	18.648	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.959	131	37144	18.566	ug/l		100
67) Ethyl Benzene	11.965	91	195573	18.794	ug/l		100
68) m/p-Xylenes	12.071	106	143982	36.936	ug/l		96
69) o-Xylene	12.400	106	71704	18.650	ug/l		98
70) Styrene	12.412	104	119023	18.432	ug/l		98
71) Bromoform	12.576	173	27528	18.163	ug/l	#	100
73) Isopropylbenzene	12.694	105	185158	18.923	ug/l		99
74) N-amyl acetate	12.494	43	85424	17.848	ug/l		96
75) 1,1,2,2-Tetrachloroethane	12.935	83	52621	19.014	ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	47844m	18.634	ug/l		
77) Bromobenzene	12.982	156	40969	18.848	ug/l		95
78) n-propylbenzene	13.035	91	214421	19.031	ug/l		100
79) 2-Chlorotoluene	13.123	91	133041	18.624	ug/l		98
80) 1,3,5-Trimethylbenzene	13.171	105	156096	19.054	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	19189	16.257	ug/l		99
82) 4-Chlorotoluene	13.223	91	133942	18.693	ug/l		97
83) tert-Butylbenzene	13.441	119	138076	19.032	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	154210	18.679	ug/l		100
85) sec-Butylbenzene	13.618	105	186943	18.885	ug/l		99
86) p-Isopropyltoluene	13.729	119	157702	19.294	ug/l		98
87) 1,3-Dichlorobenzene	13.729	146	74961	18.328	ug/l		98
88) 1,4-Dichlorobenzene	13.812	146	74905	18.166	ug/l		97
89) n-Butylbenzene	14.053	91	130906	18.483	ug/l		98
90) Hexachloroethane	14.335	117	29160	18.466	ug/l		91
91) 1,2-Dichlorobenzene	14.106	146	72582	18.339	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	12290	18.300	ug/l		95
93) 1,2,4-Trichlorobenzene	15.388	180	38795	17.496	ug/l		98
94) Hexachlorobutadiene	15.500	225	17096	17.337	ug/l		99
95) Naphthalene	15.641	128	136697	17.404	ug/l		98
96) 1,2,3-Trichlorobenzene	15.835	180	37862	17.257	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081024\
Data File : VN083200.D
Acq On : 10 Aug 2024 11:58
Operator : JC\MD
Sample : VN0810WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 12 01:47:32 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

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

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

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

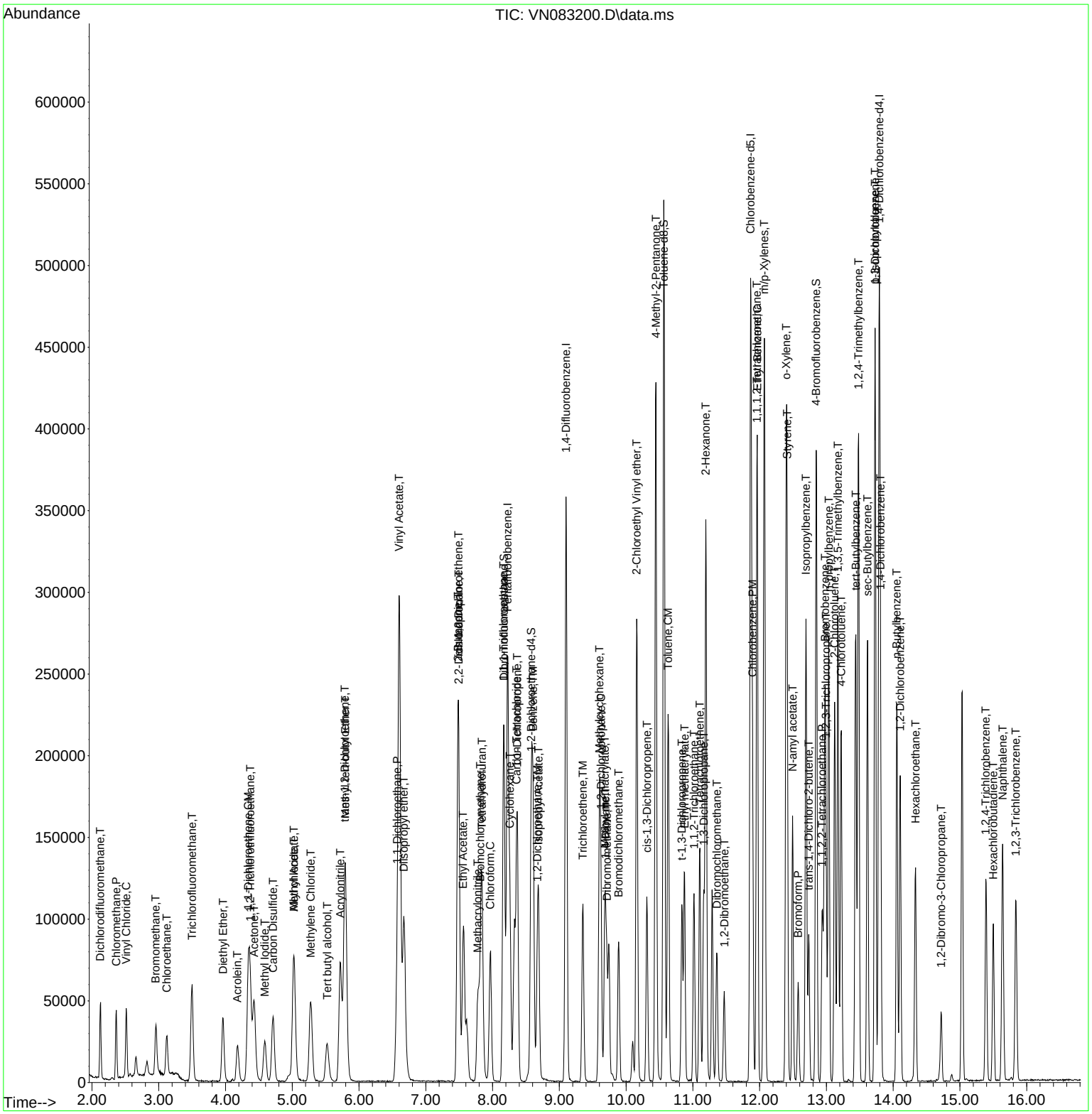
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081024\
Data File : VN083200.D
Acq On : 10 Aug 2024 11:58
Operator : JC\MD
Sample : VN0810WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

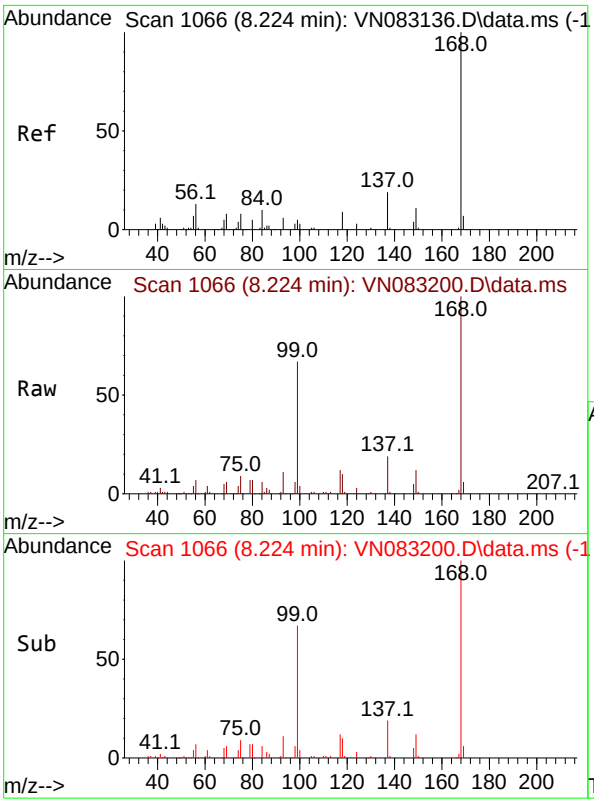
Quant Time: Aug 12 01:47:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

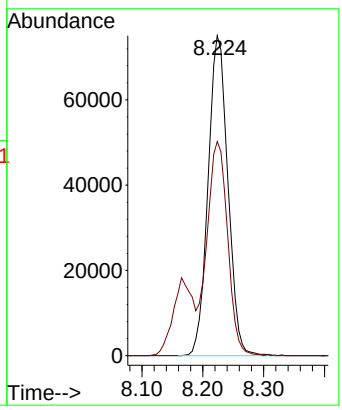




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion:168 Resp: 16945

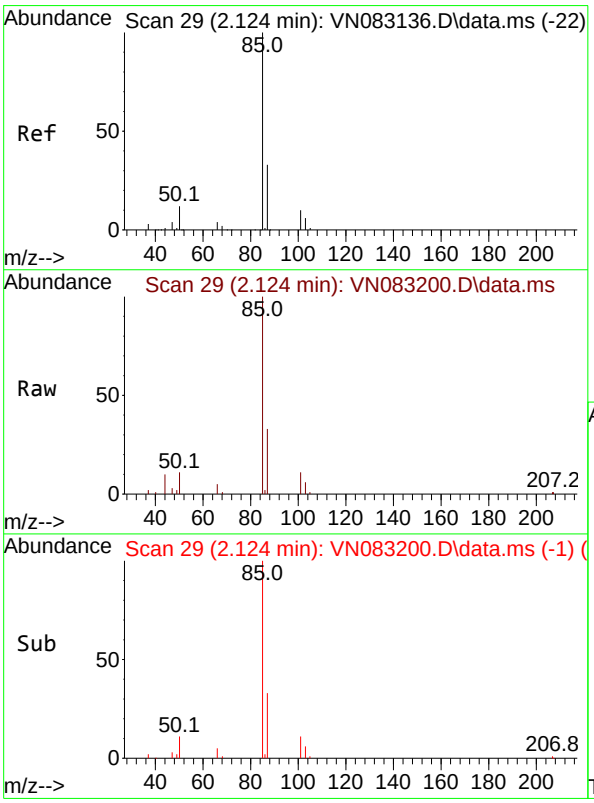
Ion	Ratio	Lower	Upper
168	100		
99	66.9	48.2	72.4



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

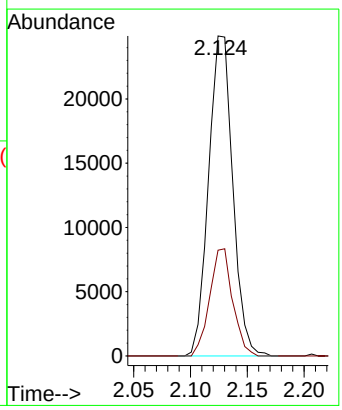
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

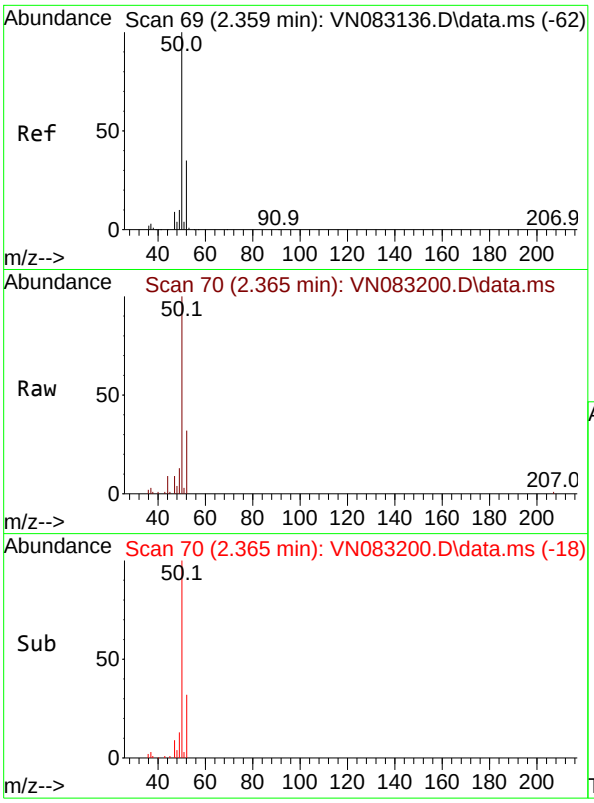


#2
Dichlorodifluoromethane
Concen: 19.191 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 85 Resp: 36878

Ion	Ratio	Lower	Upper
85	100		
87	33.1	15.7	47.0

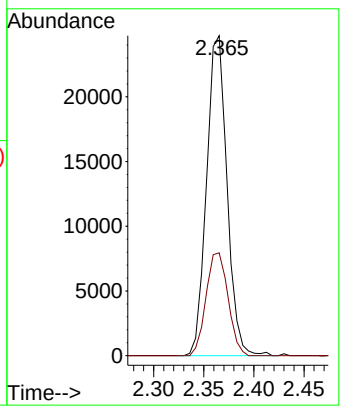




#3
Chloromethane
Concen: 17.847 ug/l
RT: 2.365 min Scan# 7
Delta R.T. 0.006 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 50 Resp: 3511

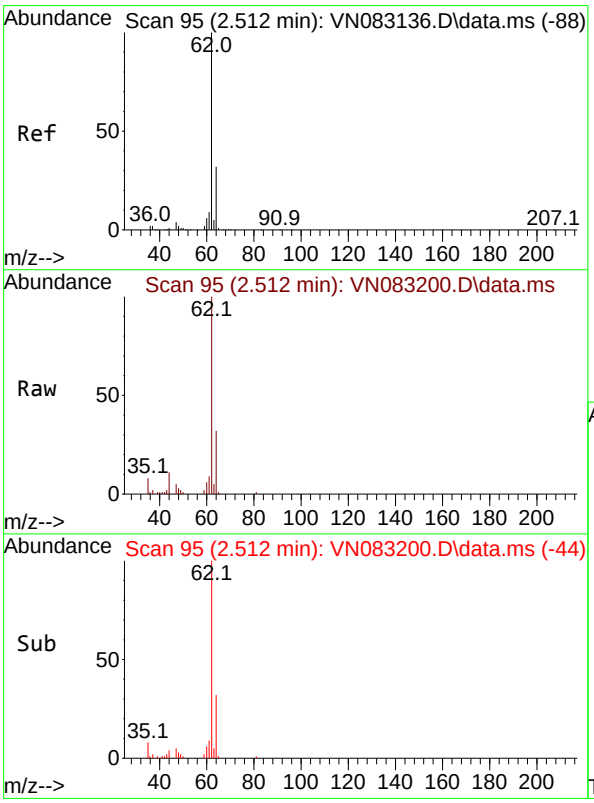
Ion	Ratio	Lower	Upper
50	100		
52	32.1	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

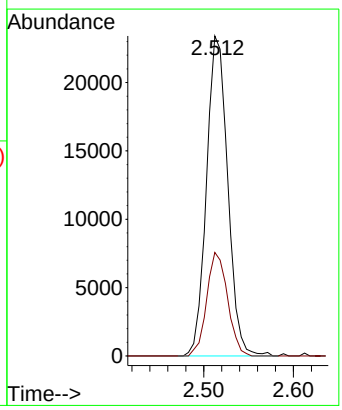
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

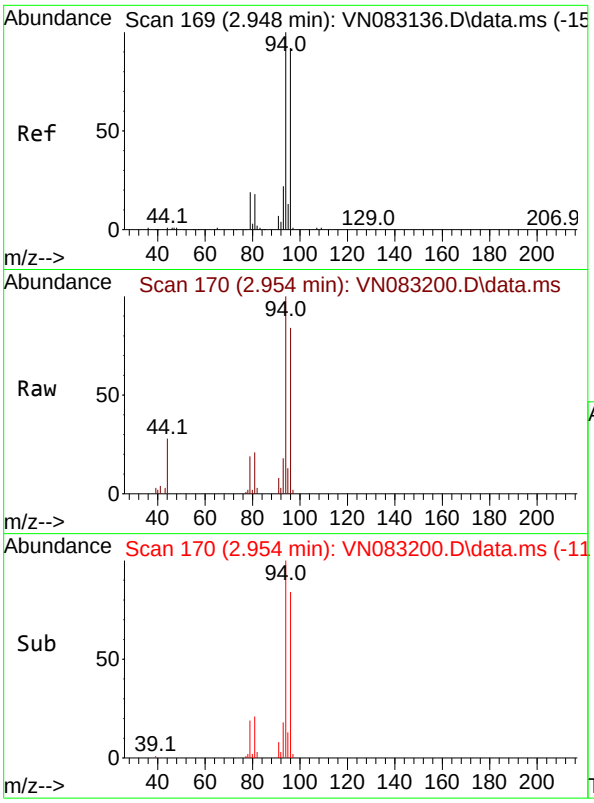


#4
Vinyl Chloride
Concen: 19.164 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 62 Resp: 38472

Ion	Ratio	Lower	Upper
62	100		
64	32.4	25.0	37.6

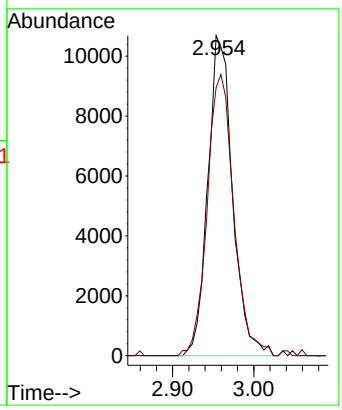




#5
Bromomethane
Concen: 18.148 ug/l
RT: 2.954 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 94 Resp: 2260

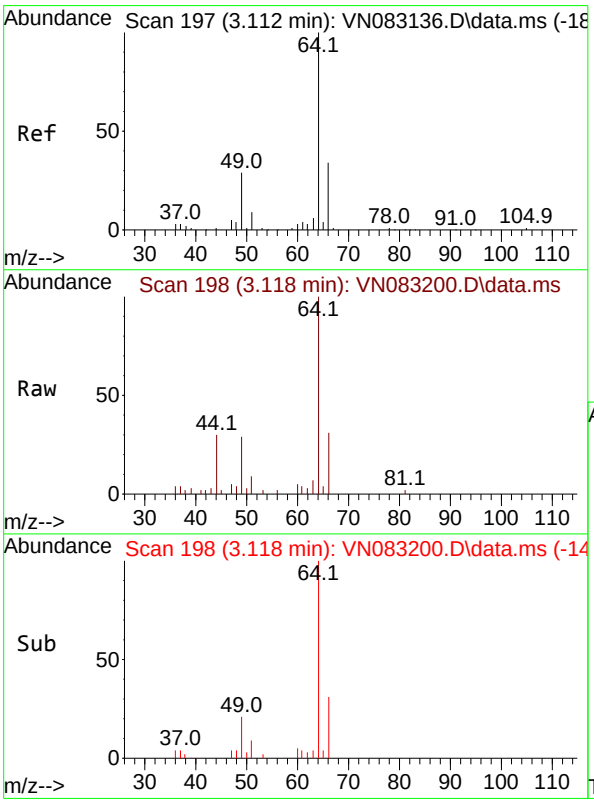
Ion	Ratio	Lower	Upper
94	100		
96	83.8	78.0	117.0



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

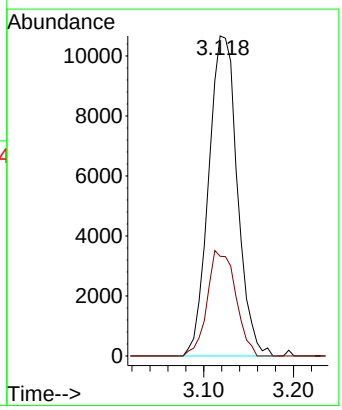
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

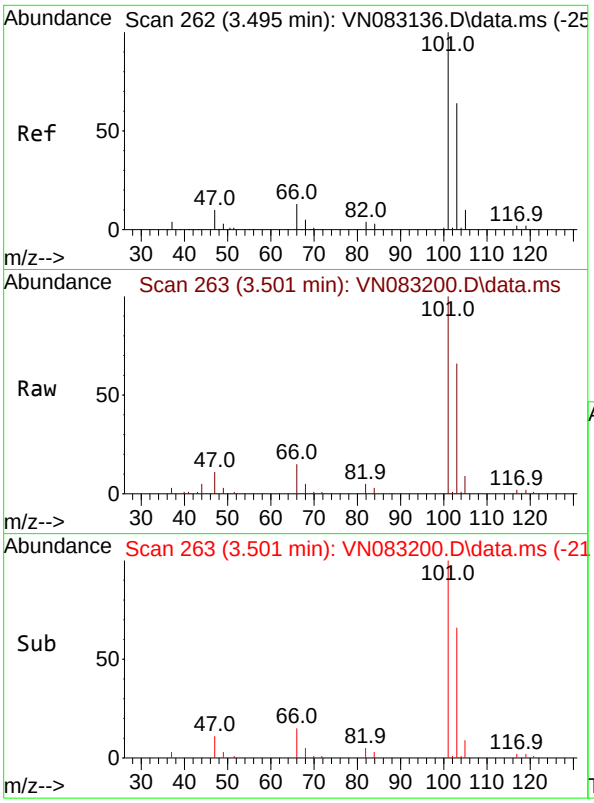


#6
Chloroethane
Concen: 18.815 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.006 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 64 Resp: 23631

Ion	Ratio	Lower	Upper
64	100		
66	31.1	26.6	40.0

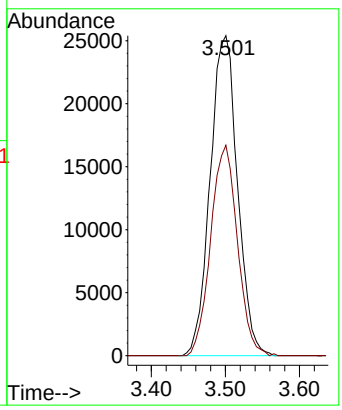




#7
Trichlorofluoromethane
Concen: 19.645 ug/l
RT: 3.501 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion:101 Resp: 6515

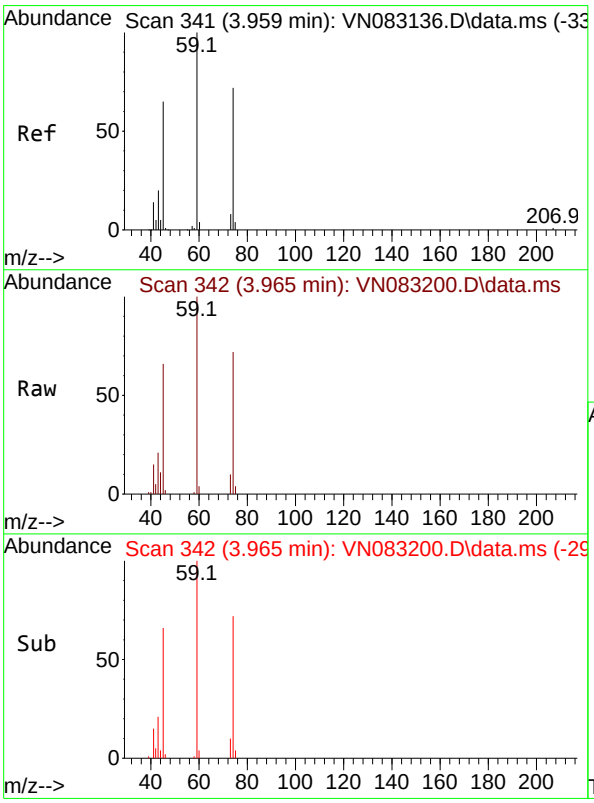
Ion	Ratio	Lower	Upper
101	100		
103	65.7	52.7	79.1



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

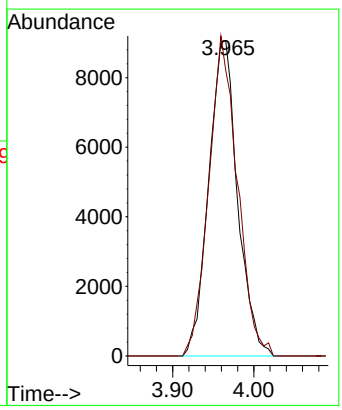
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

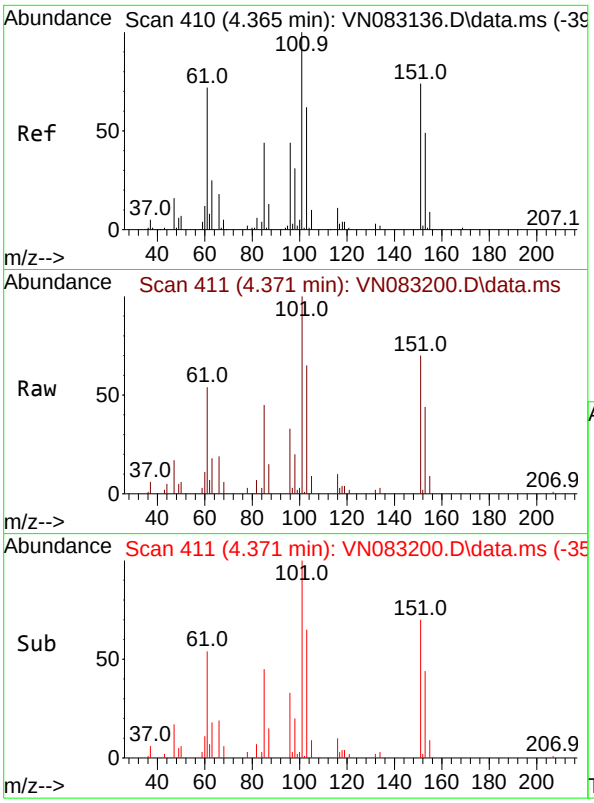


#8
Diethyl Ether
Concen: 18.161 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.006 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 74 Resp: 22412

Ion	Ratio	Lower	Upper
74	100		
45	100.6	55.5	166.3





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.500 ug/l
RT: 4.371 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

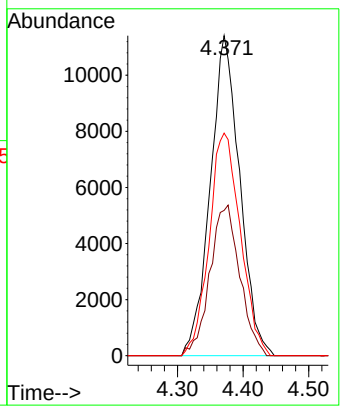
Tgt Ion:101 Resp: 3565

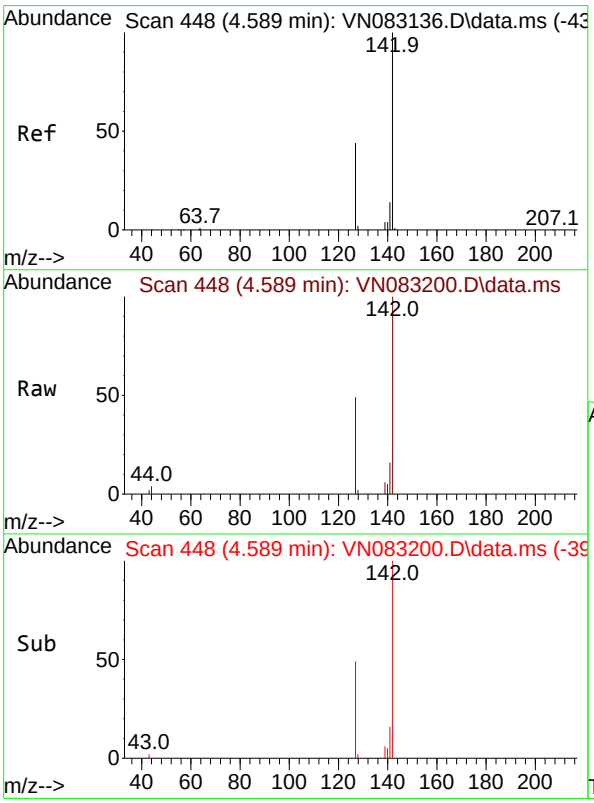
Ion	Ratio	Lower	Upper
101	100		
85	47.7	38.3	57.5
151	73.6	59.3	88.9

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

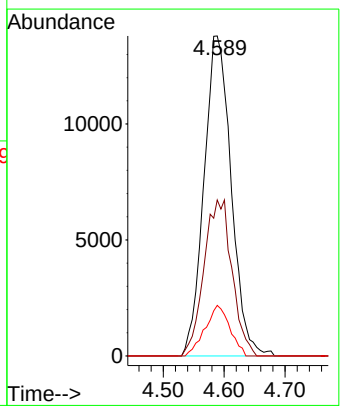


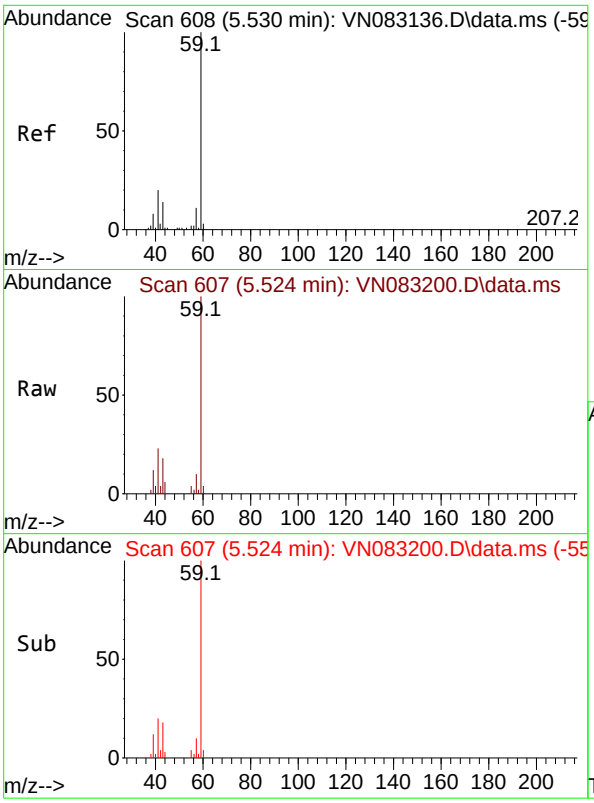


#10
Methyl Iodide
Concen: 17.835 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion:142 Resp: 42895

Ion	Ratio	Lower	Upper
142	100		
127	48.8	37.5	56.3
141	15.8	13.1	19.7





#11
Tert butyl alcohol
Concen: 88.880 ug/l
RT: 5.524 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

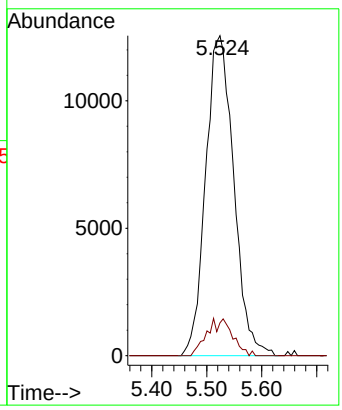
Tgt Ion: 59 Resp: 4455

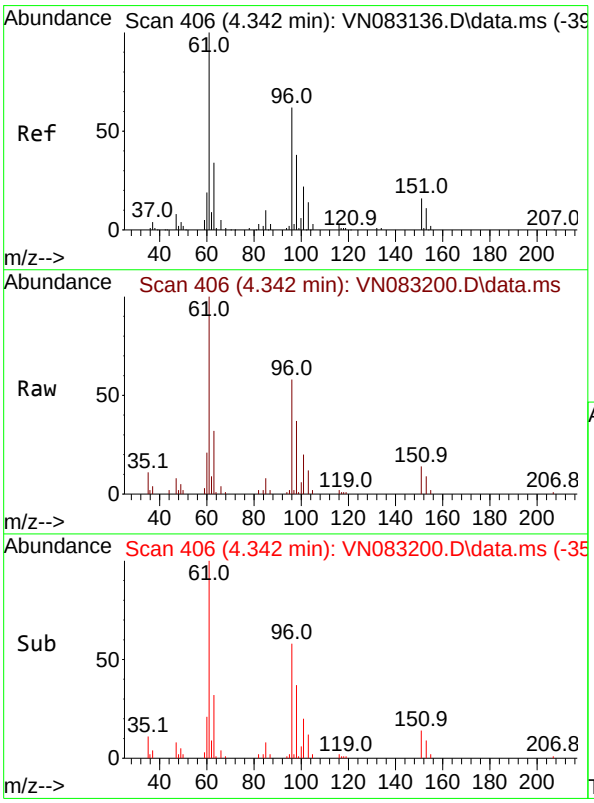
Ion	Ratio	Lower	Upper
59	100		
57	4.7	8.9	13.3#

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

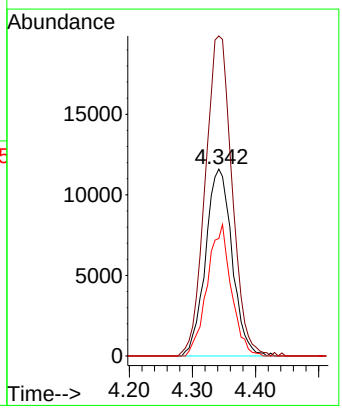


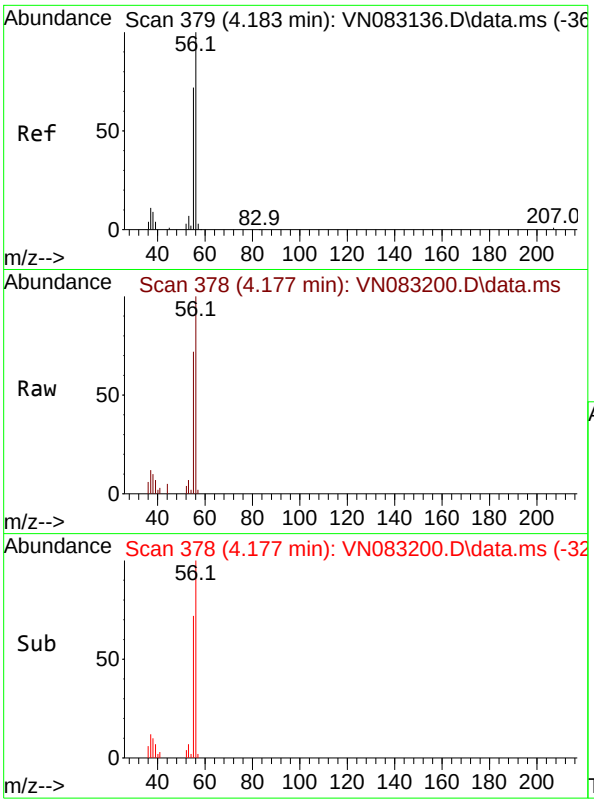


#12
1,1-Dichloroethene
Concen: 18.070 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 96 Resp: 33943

Ion	Ratio	Lower	Upper
96	100		
61	171.3	149.7	224.5
98	62.9	50.1	75.1

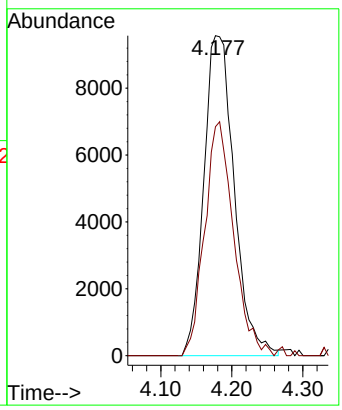




#13
Acrolein
Concen: 87.048 ug/l
RT: 4.177 min Scan# 3
Delta R.T. -0.006 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 56 Resp: 2843

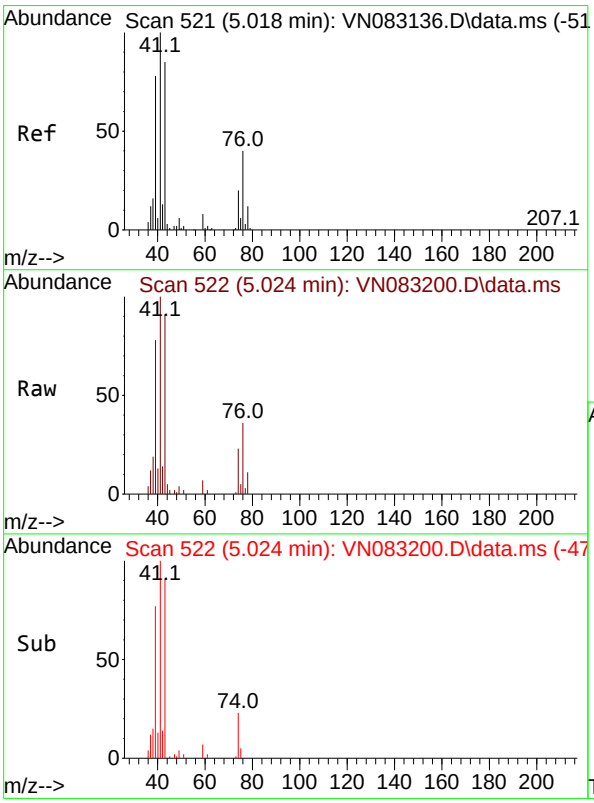
Ion	Ratio	Lower	Upper
56	100		
55	69.6	56.4	84.6



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

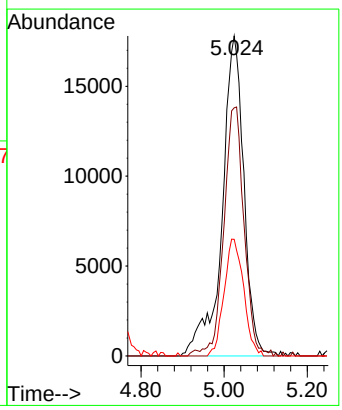
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

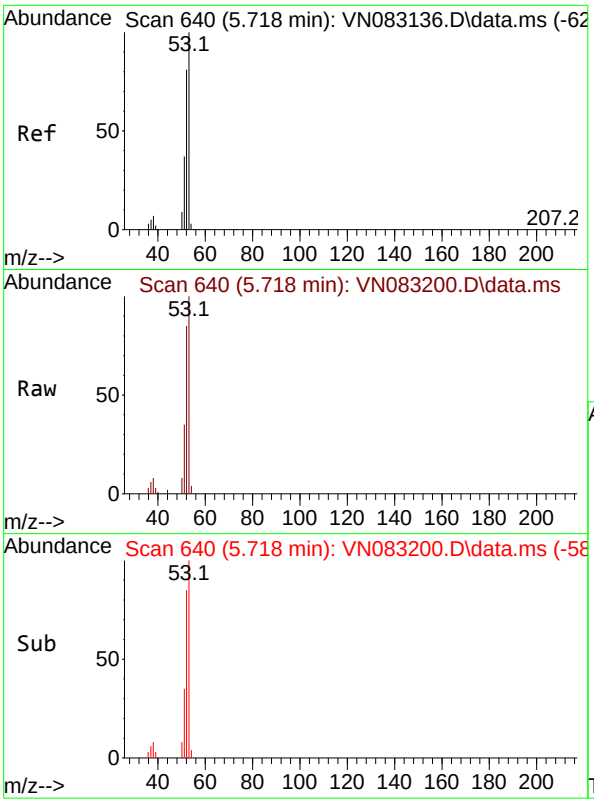


#14
Allyl chloride
Concen: 18.285 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 41 Resp: 64907

Ion	Ratio	Lower	Upper
41	100		
39	72.2	67.8	101.6
76	32.7	25.8	38.8

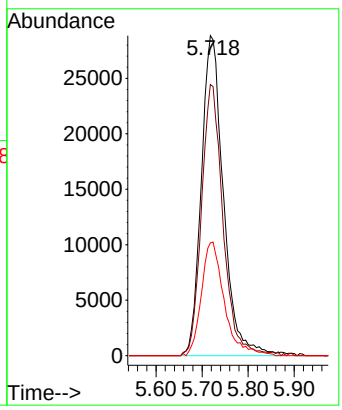




#15
Acrylonitrile
Concen: 93.425 ug/l
RT: 5.718 min Scan# 64
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 53 Resp: 9631

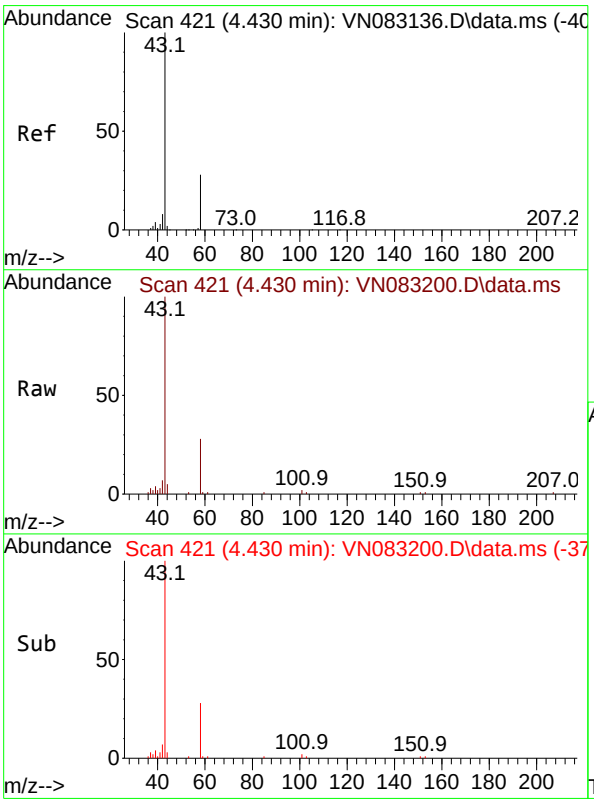
Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.6	100.0
51	36.9	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

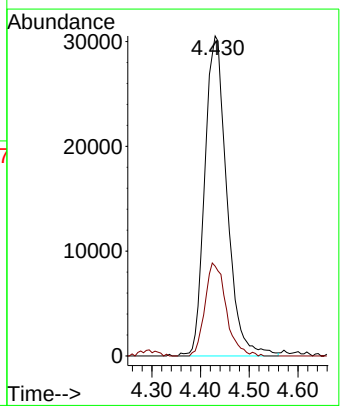
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

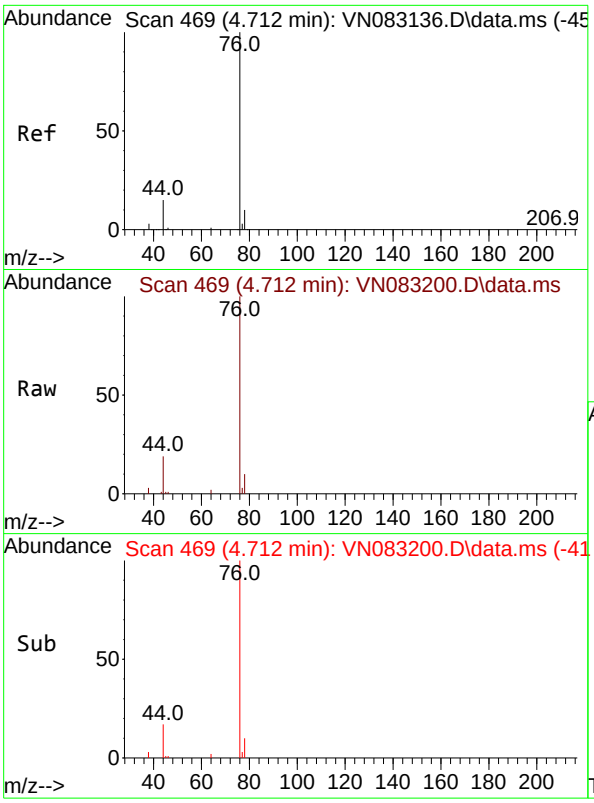


#16
Acetone
Concen: 102.007 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 43 Resp: 96276

Ion	Ratio	Lower	Upper
43	100		
58	28.0	21.8	32.6

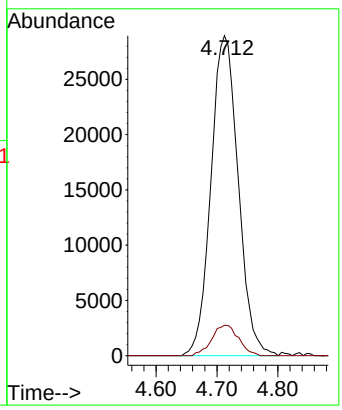




#17
Carbon Disulfide
Concen: 16.388 ug/l
RT: 4.712 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 76 Resp: 9007

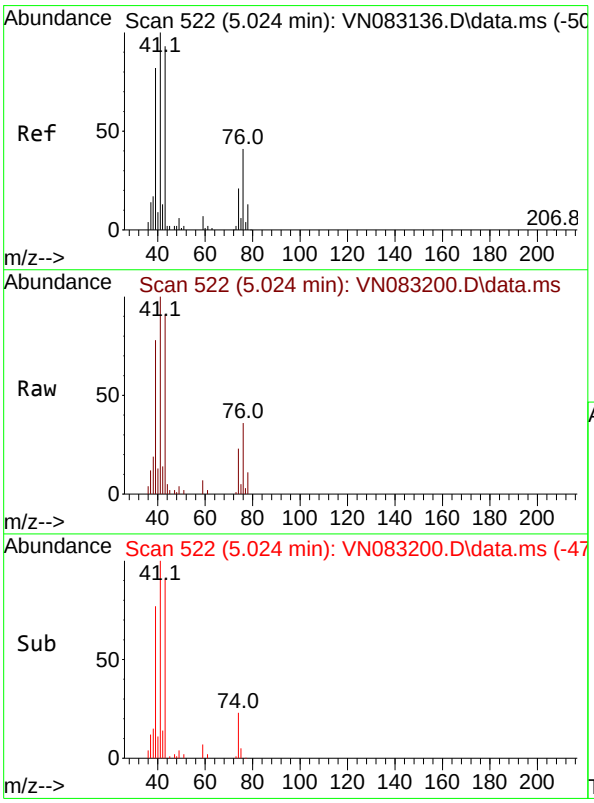
Ion	Ratio	Lower	Upper
76	100		
78	9.5	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

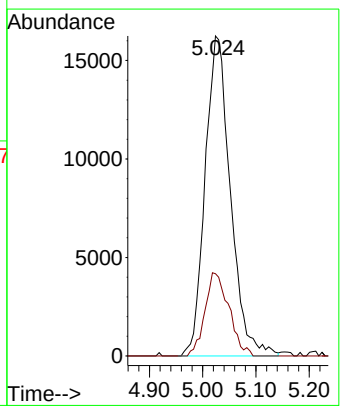
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

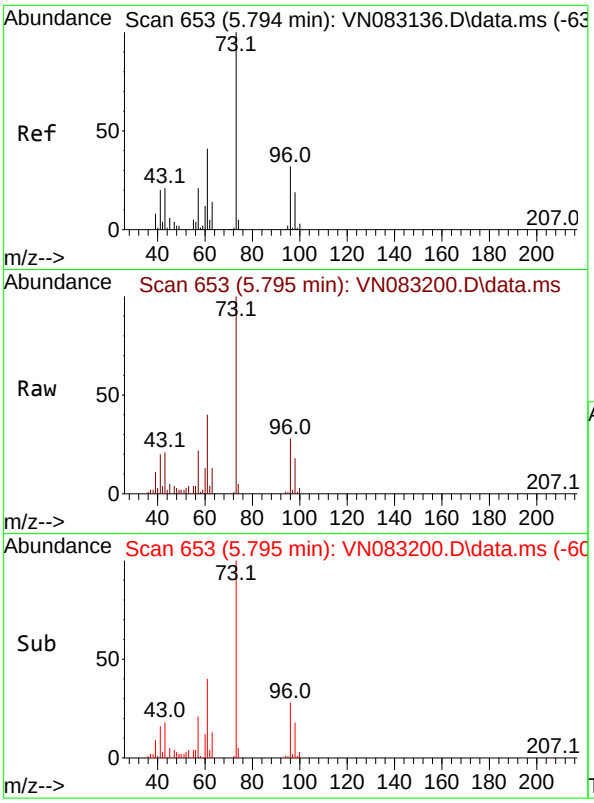


#18
Methyl Acetate
Concen: 19.076 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 43 Resp: 53641

Ion	Ratio	Lower	Upper
43	100		
74	24.6	16.3	24.5#

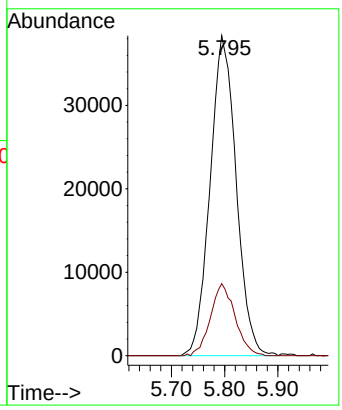




#19
Methyl tert-butyl Ether
Concen: 19.242 ug/l
RT: 5.795 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 73 Resp: 13046

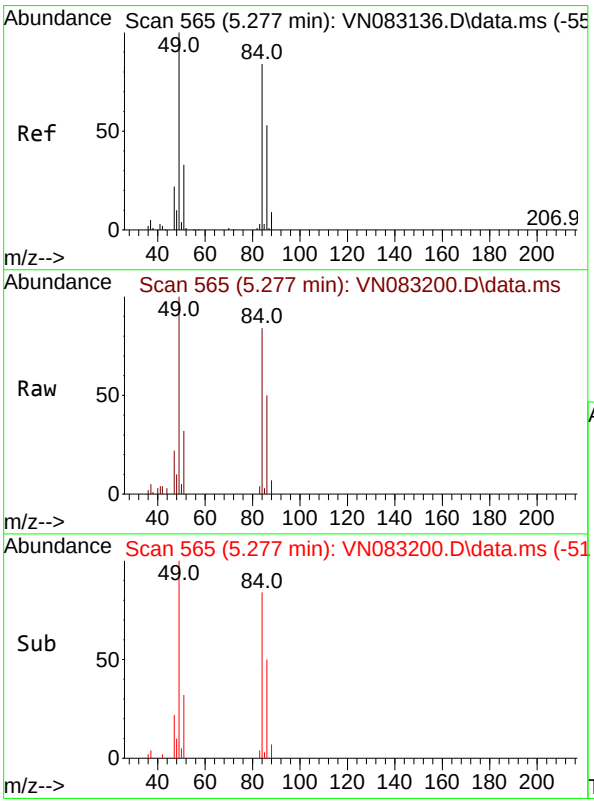
Ion	Ratio	Lower	Upper
73	100		
57	22.5	17.9	26.9



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

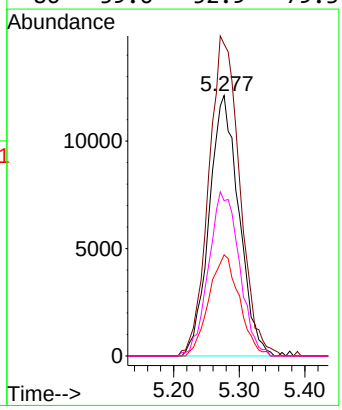
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

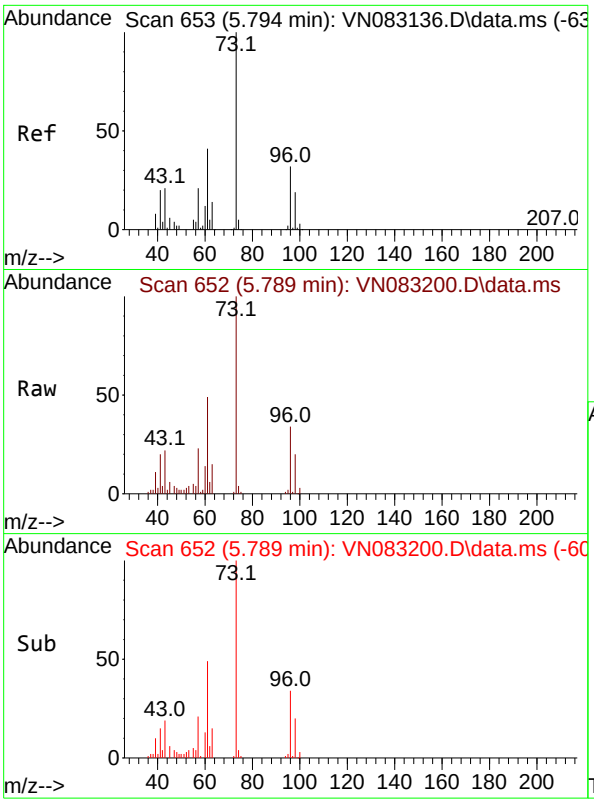


#20
Methylene Chloride
Concen: 17.563 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 84 Resp: 38150

Ion	Ratio	Lower	Upper
84	100		
49	119.7	119.6	179.4
51	38.8	34.8	52.2
86	59.6	52.9	79.3

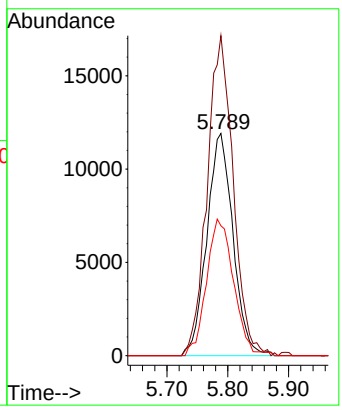




#21
trans-1,2-Dichloroethene
Concen: 18.330 ug/l
RT: 5.789 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 96 Resp: 3558

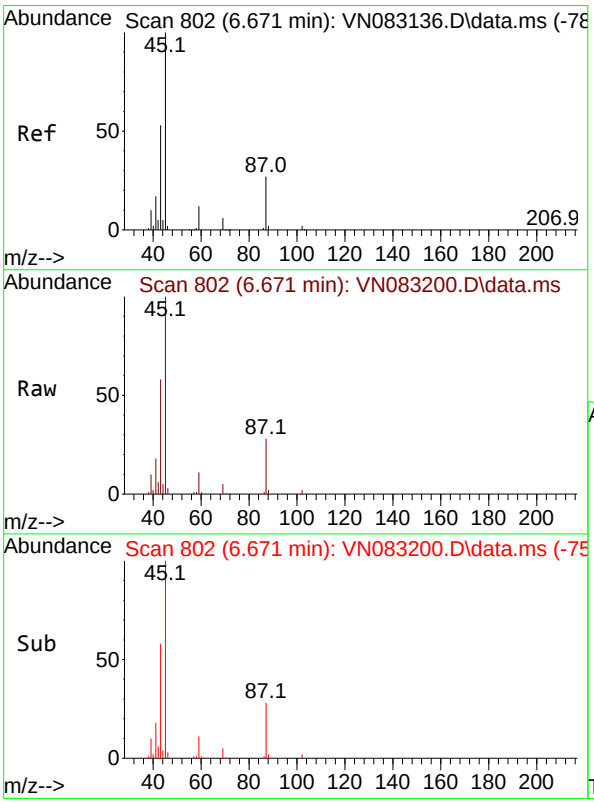
Ion	Ratio	Lower	Upper
96	100		
61	144.0	123.4	185.2
98	58.5	49.3	73.9



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

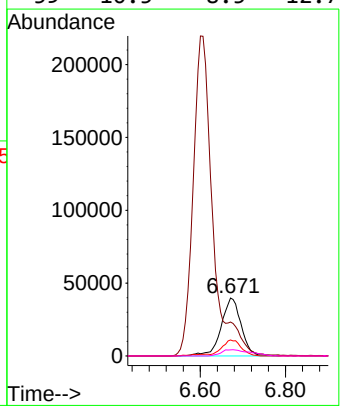
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

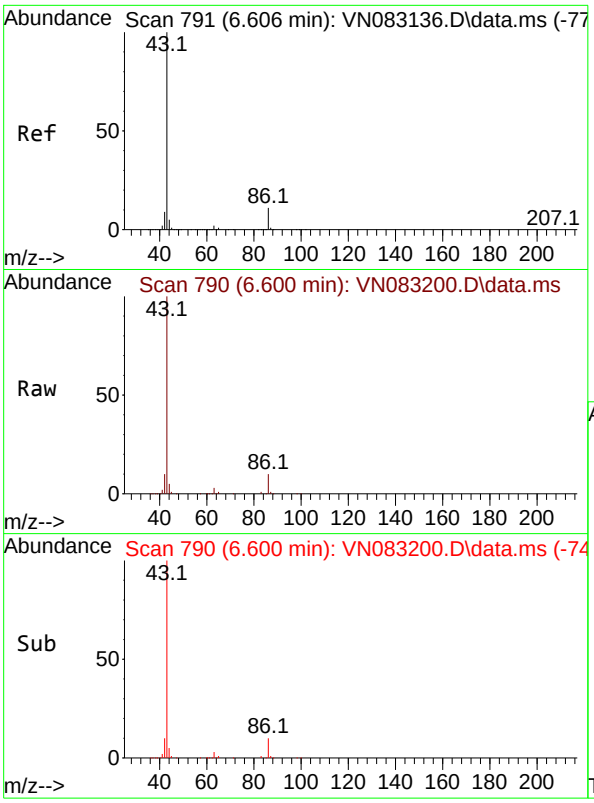


#22
Diisopropyl ether
Concen: 19.348 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 45 Resp: 129101

Ion	Ratio	Lower	Upper
45	100		
43	56.4	44.0	66.0
87	27.7	19.7	29.5
59	10.5	8.5	12.7

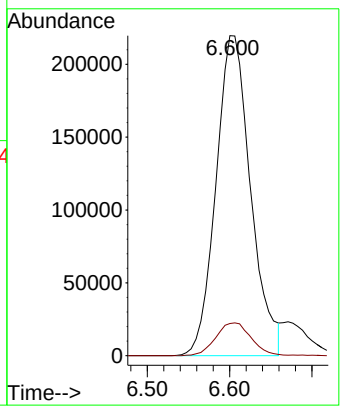




#23
Vinyl Acetate
Concen: 94.118 ug/l m
RT: 6.600 min Scan# 7
Delta R.T. -0.006 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 43 Resp: 64370

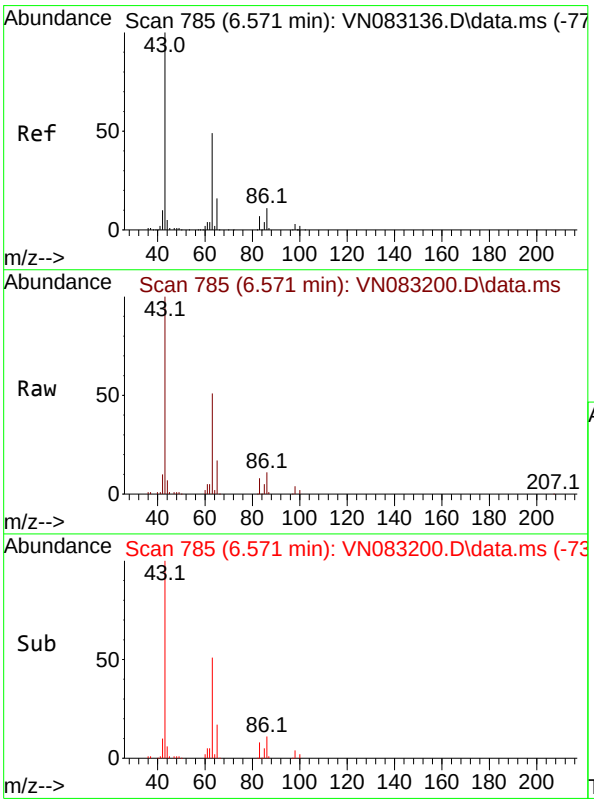
Ion	Ratio	Lower	Upper
43	100		
86	10.1	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

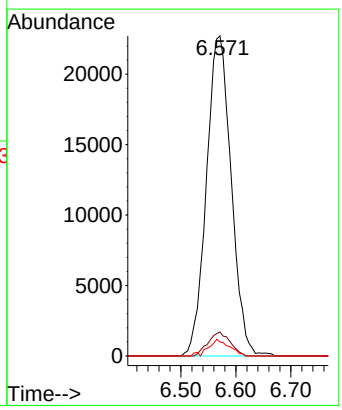
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

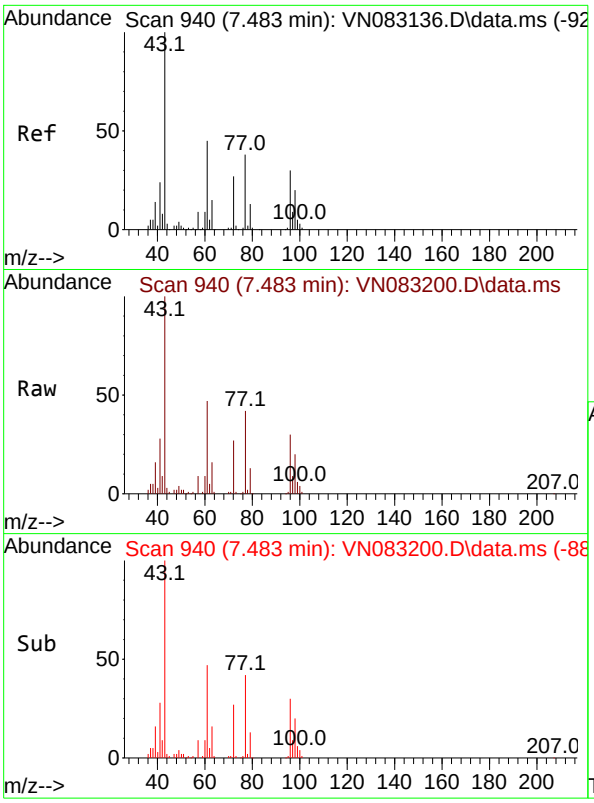


#24
1,1-Dichloroethane
Concen: 19.575 ug/l
RT: 6.571 min Scan# 785
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 63 Resp: 71196

Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.3	9.9
100	4.4	2.0	6.0





#25
2-Butanone
Concen: 95.362 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

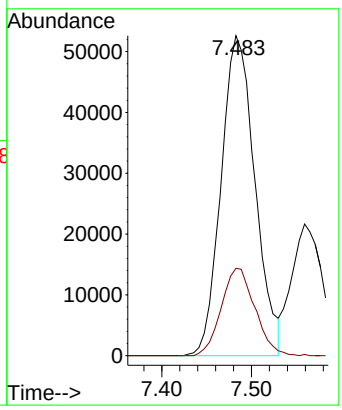
Tgt Ion: 43 Resp: 13819

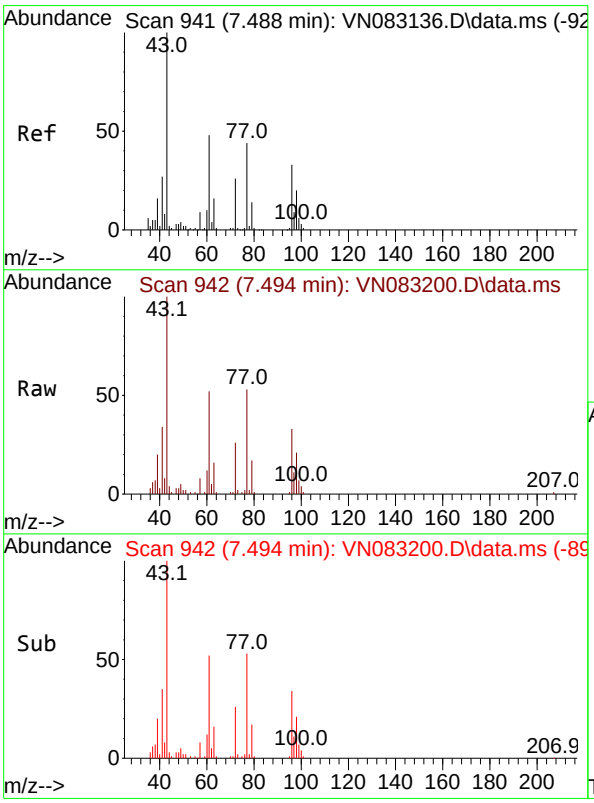
Ion	Ratio	Lower	Upper
43	100		
72	27.3	18.2	27.2

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

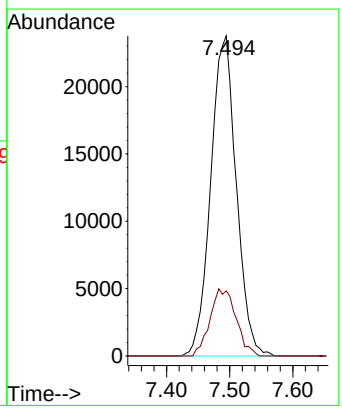


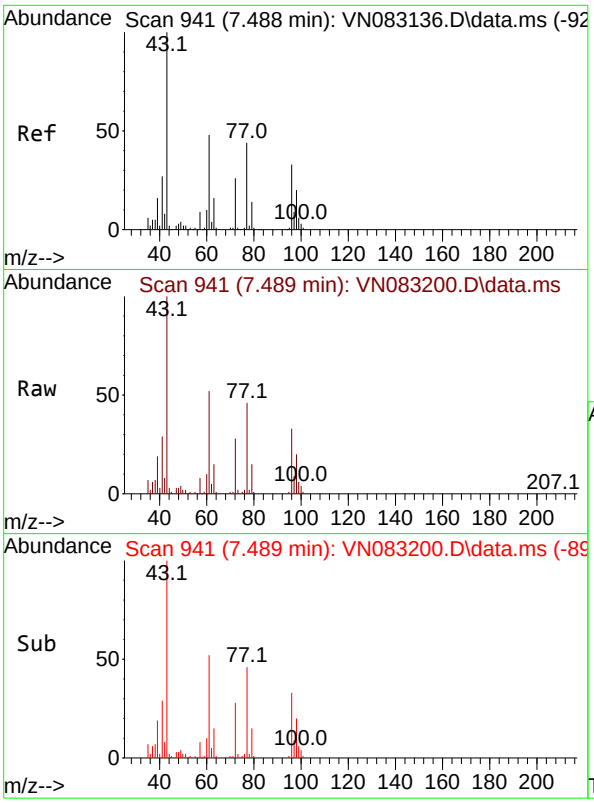


#26
2,2-Dichloropropane
Concen: 19.806 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.006 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 77 Resp: 66897

Ion	Ratio	Lower	Upper
77	100		
97	21.3	10.3	30.9

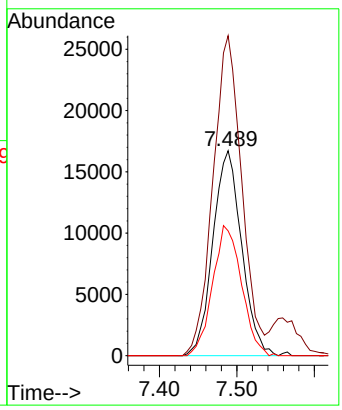




#27
cis-1,2-Dichloroethene
Concen: 18.424 ug/l
RT: 7.489 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 96 Resp: 4316

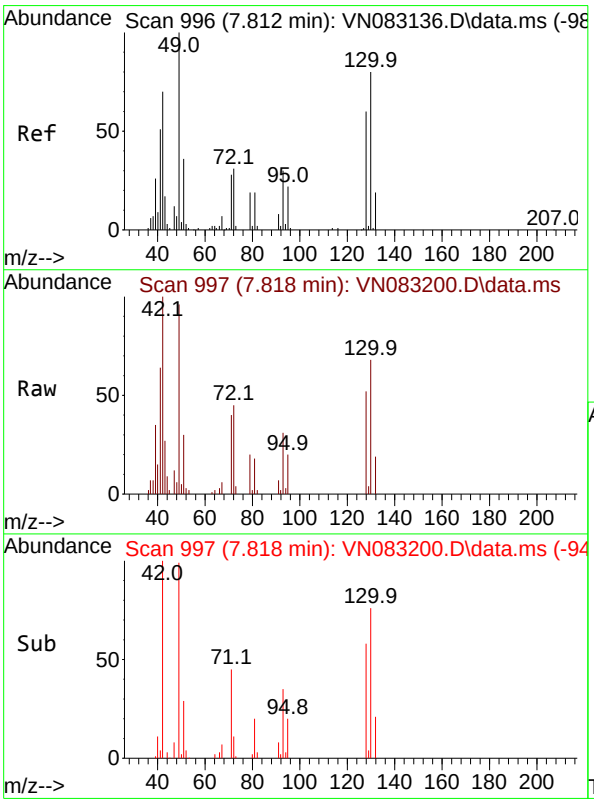
Ion	Ratio	Lower	Upper
96	100		
61	156.1	0.0	329.6
98	63.8	0.0	128.6



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

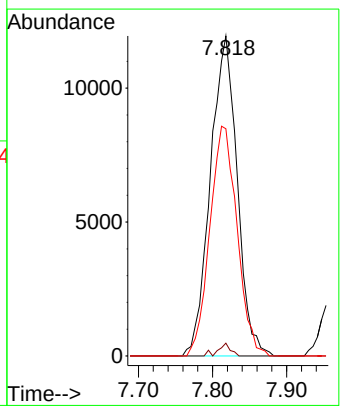
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

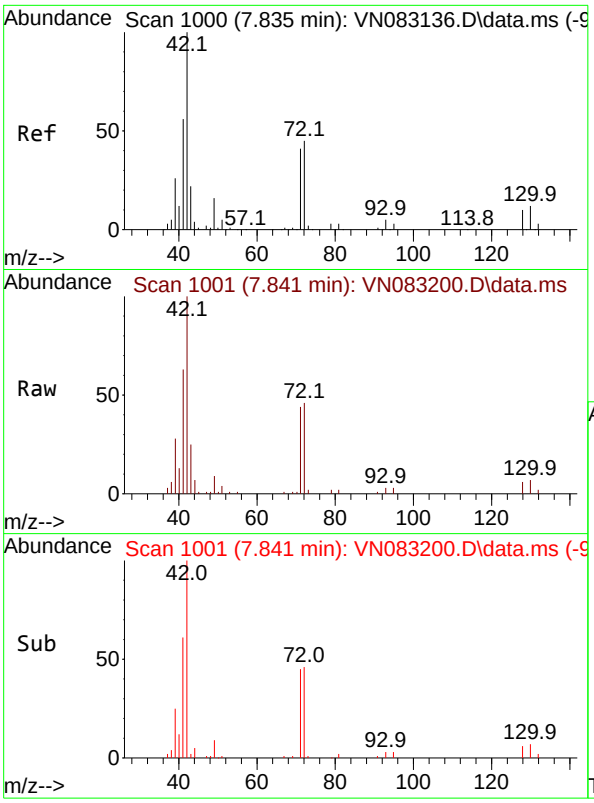


#28
Bromochloromethane
Concen: 20.226 ug/l
RT: 7.818 min Scan# 997
Delta R.T. 0.006 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 49 Resp: 30063

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.8
130	72.8	50.5	75.7

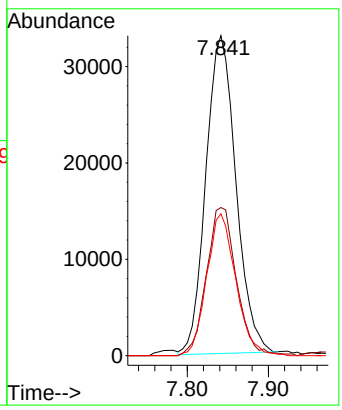




#29
Tetrahydrofuran
Concen: 90.707 ug/l
RT: 7.841 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 42 Resp: 8497

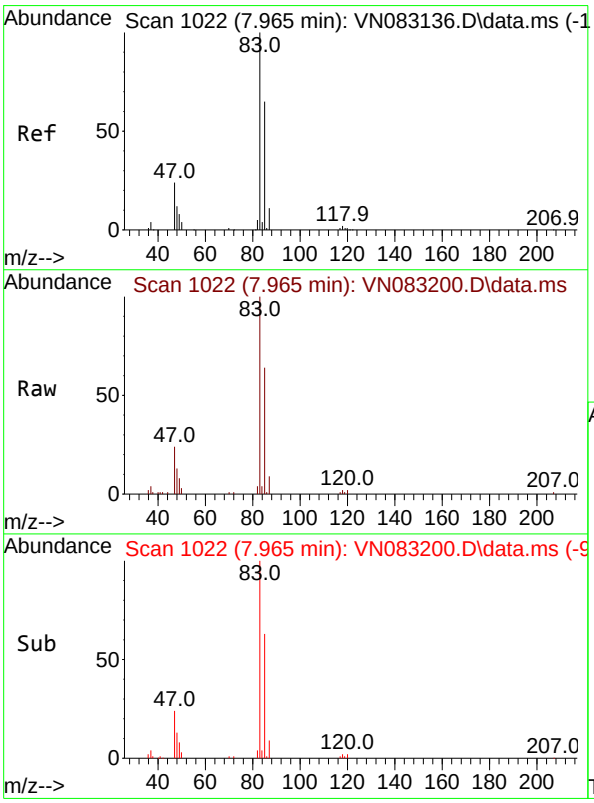
Ion	Ratio	Lower	Upper
42	100		
72	46.5	30.0	45.0#
71	43.3	28.3	42.5#



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

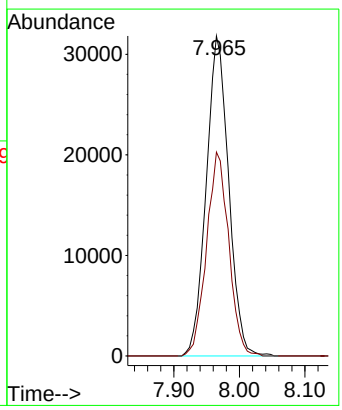
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

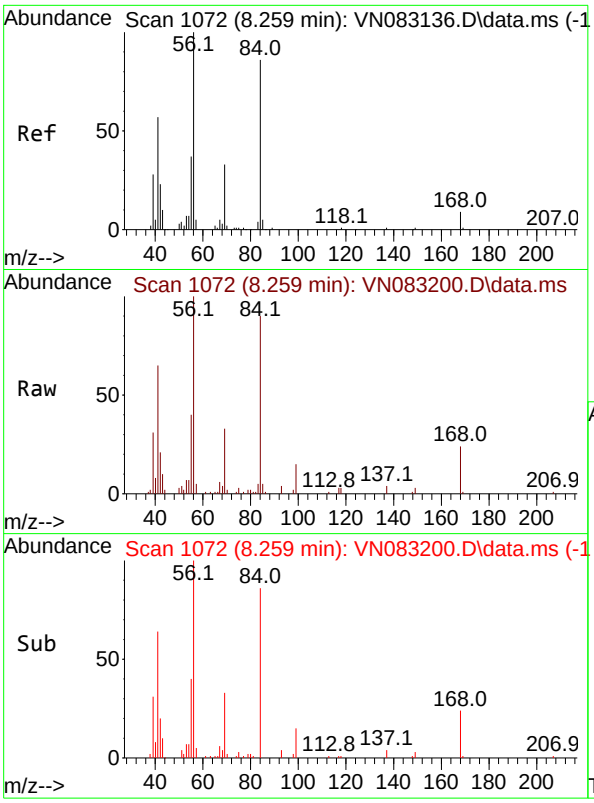


#30
Chloroform
Concen: 20.022 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 83 Resp: 75656

Ion	Ratio	Lower	Upper
83	100		
85	63.7	50.9	76.3

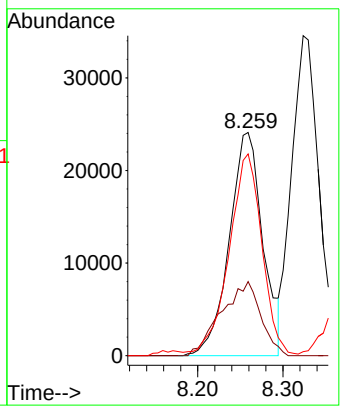




#31
Cyclohexane
Concen: 18.458 ug/l
RT: 8.259 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 56 Resp: 6597

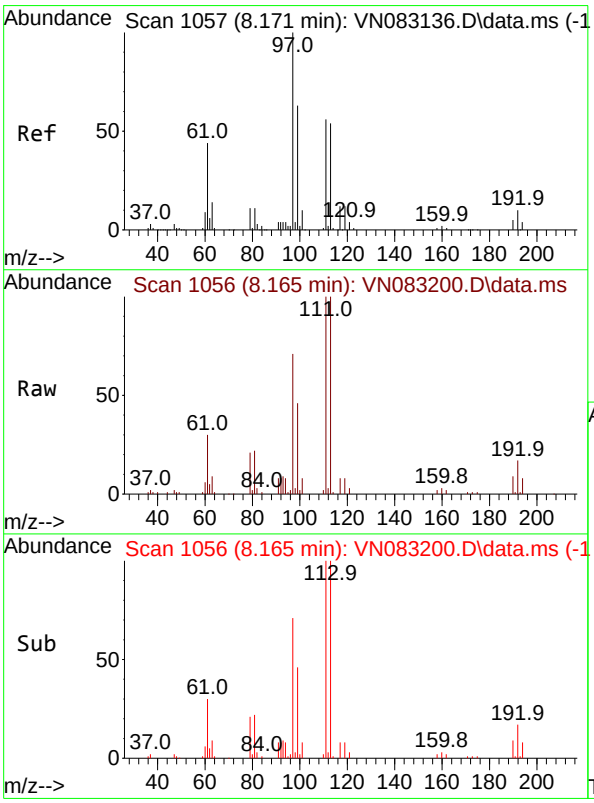
Ion	Ratio	Lower	Upper
56	100		
69	33.2	24.5	36.7
84	88.5	66.0	99.0



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

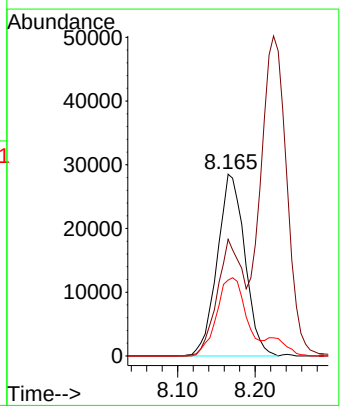
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

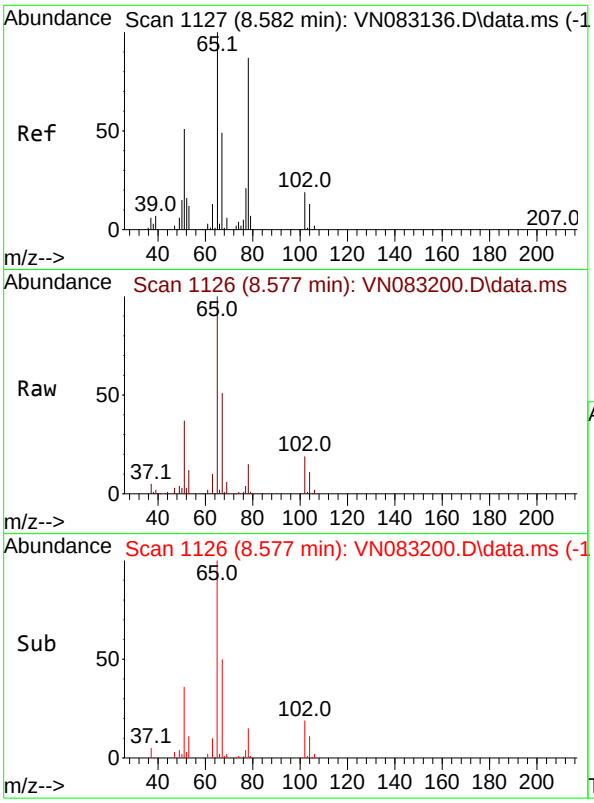


#32
1,1,1-Trichloroethane
Concen: 19.762 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 97 Resp: 70683

Ion	Ratio	Lower	Upper
97	100		
99	58.3	52.0	78.0
61	45.4	42.1	63.1

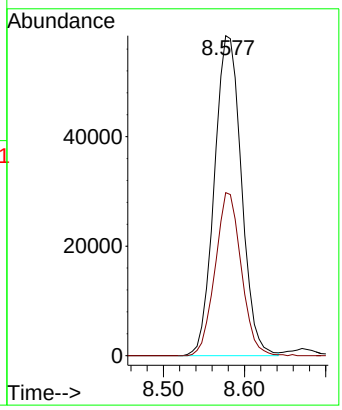




#33
1,2-Dichloroethane-d4
Concen: 56.084 ug/l
RT: 8.577 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 65 Resp: 13527

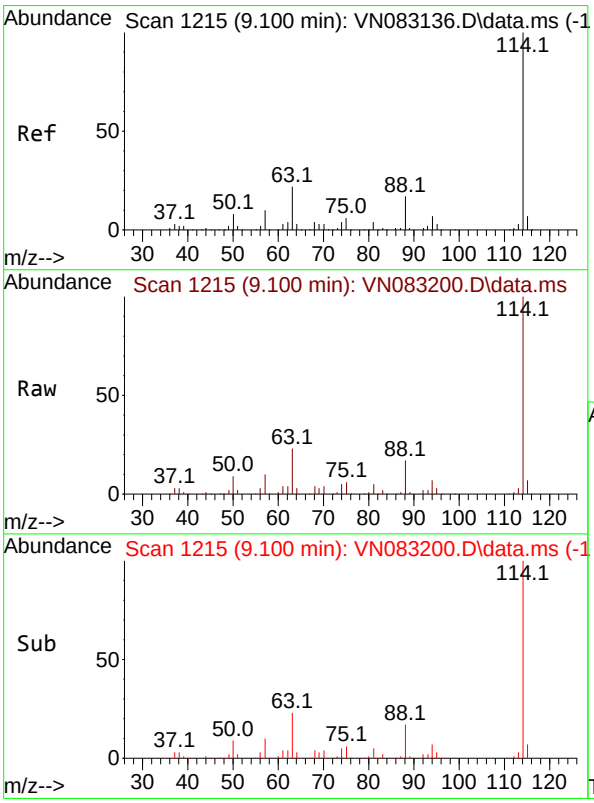
Ion	Ratio	Lower	Upper
65	100		
67	49.3	0.0	104.4



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

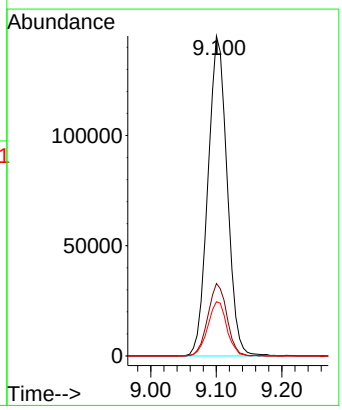
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

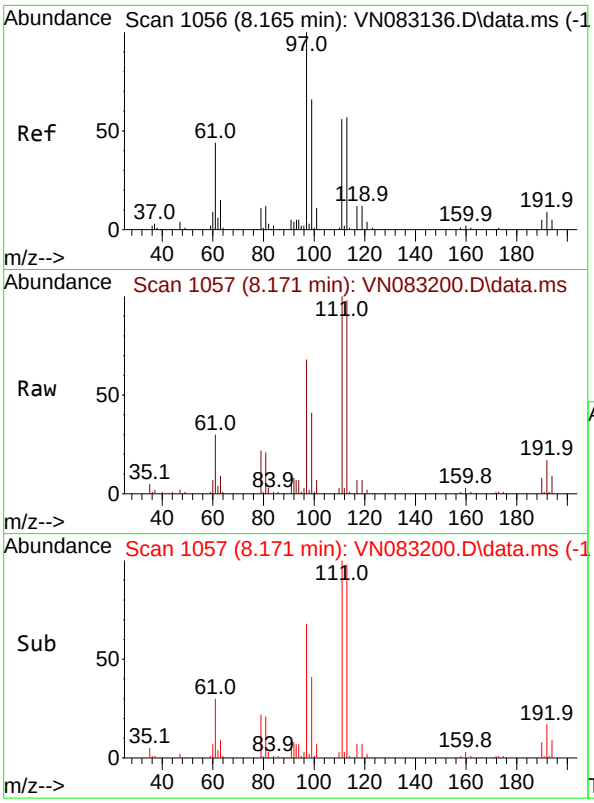


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion:114 Resp: 295589

Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	44.6
88	16.9	0.0	31.4

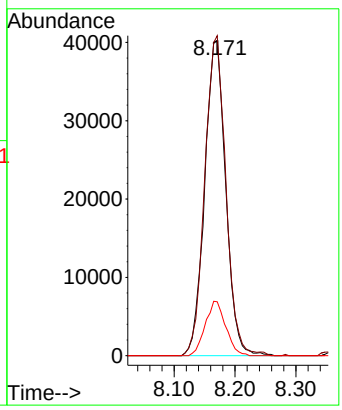




#35
Dibromofluoromethane
Concen: 52.276 ug/l
RT: 8.171 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion:113 Resp: 9644

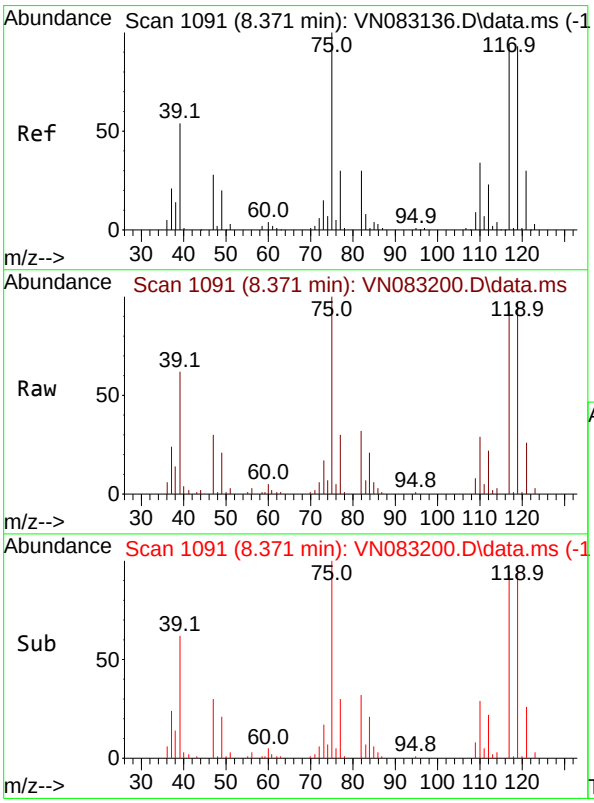
Ion	Ratio	Lower	Upper
113	100		
111	101.9	82.4	123.6
192	16.9	14.9	22.3



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

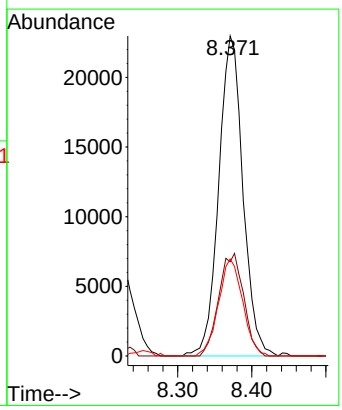
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

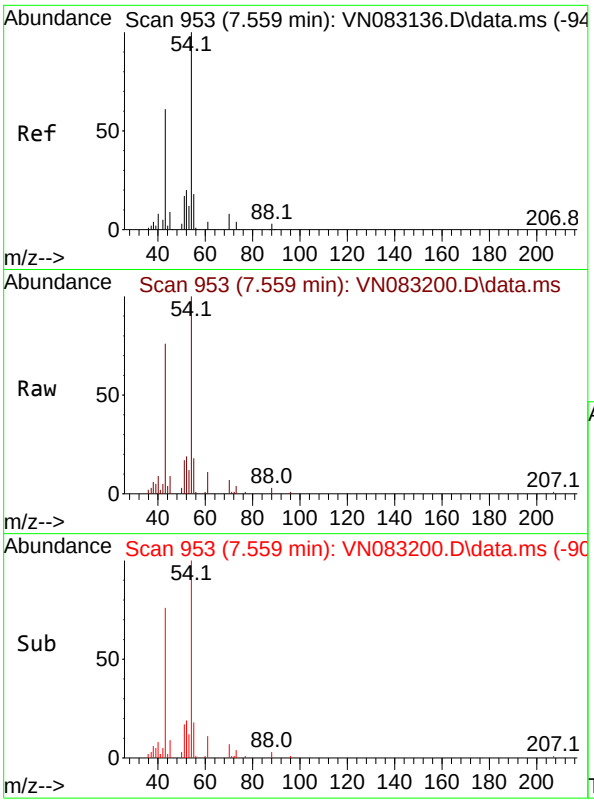


#36
1,1-Dichloropropene
Concen: 18.663 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 75 Resp: 52089

Ion	Ratio	Lower	Upper
75	100		
110	32.9	16.3	48.9
77	30.3	24.6	37.0





#37
Ethyl Acetate
Concen: 17.485 ug/l
RT: 7.559 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

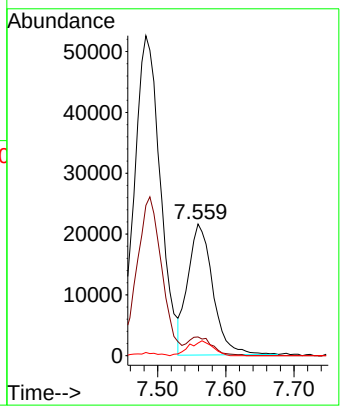
Tgt Ion: 43 Resp: 5464

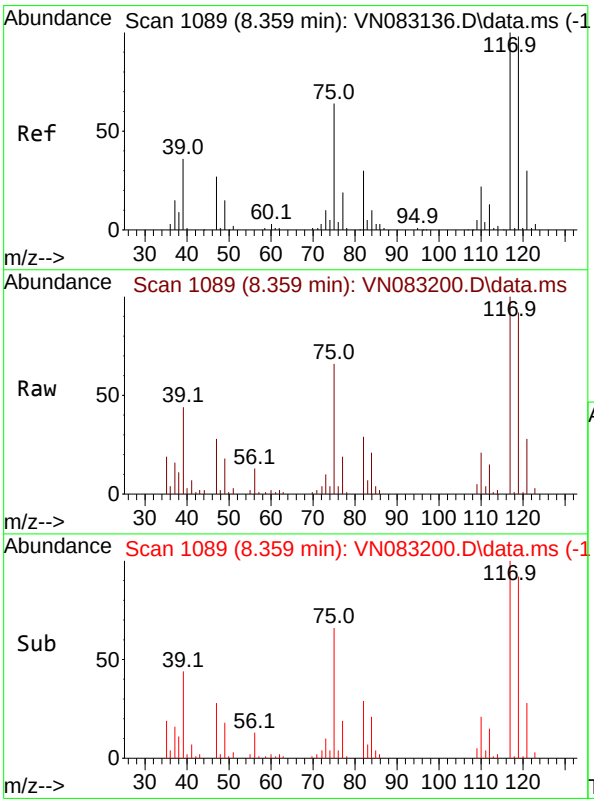
Ion	Ratio	Lower	Upper
43	100		
61	14.3	9.3	13.9#
70	10.8	7.0	10.6#

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

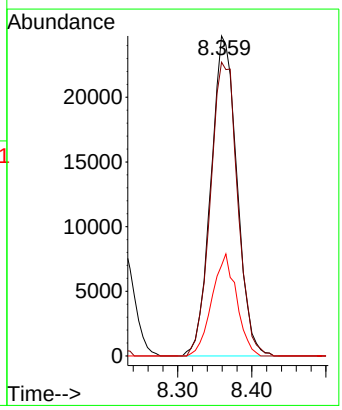


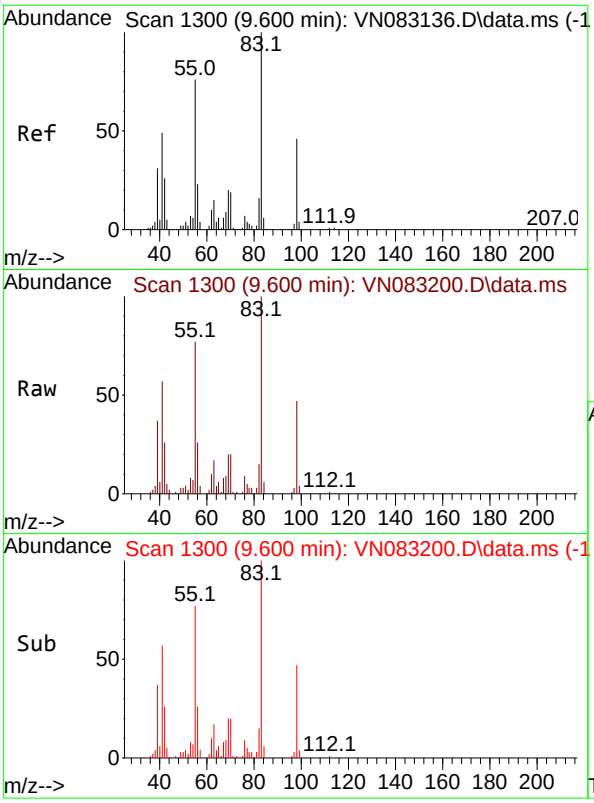


#38
Carbon Tetrachloride
Concen: 19.215 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion:117 Resp: 60402

Ion	Ratio	Lower	Upper
117	100		
119	91.8	74.9	112.3
121	28.3	24.3	36.5





#39
Methylcyclohexane
Concen: 18.175 ug/l
RT: 9.600 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

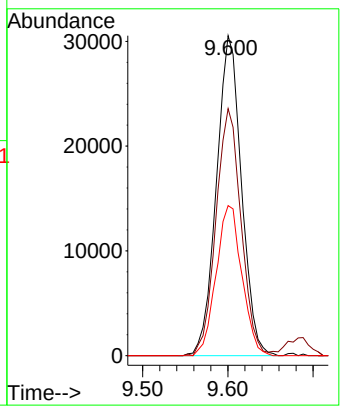
Tgt Ion: 83 Resp: 6230

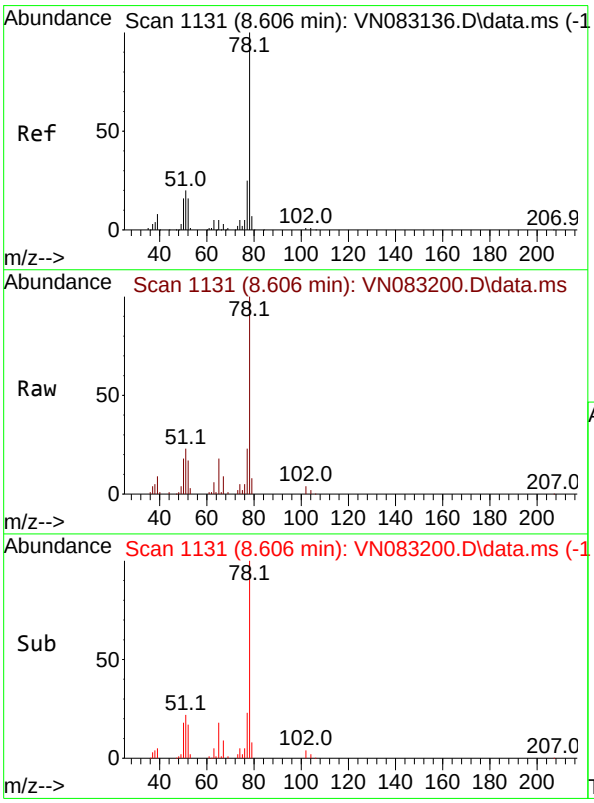
Ion	Ratio	Lower	Upper
83	100		
55	77.2	66.4	99.6
98	46.9	40.7	61.1

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

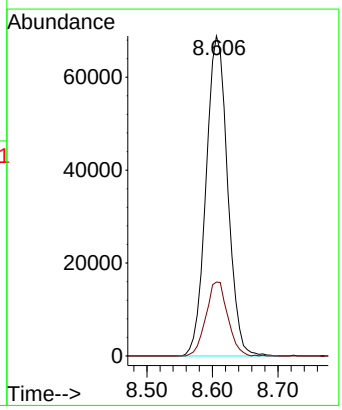


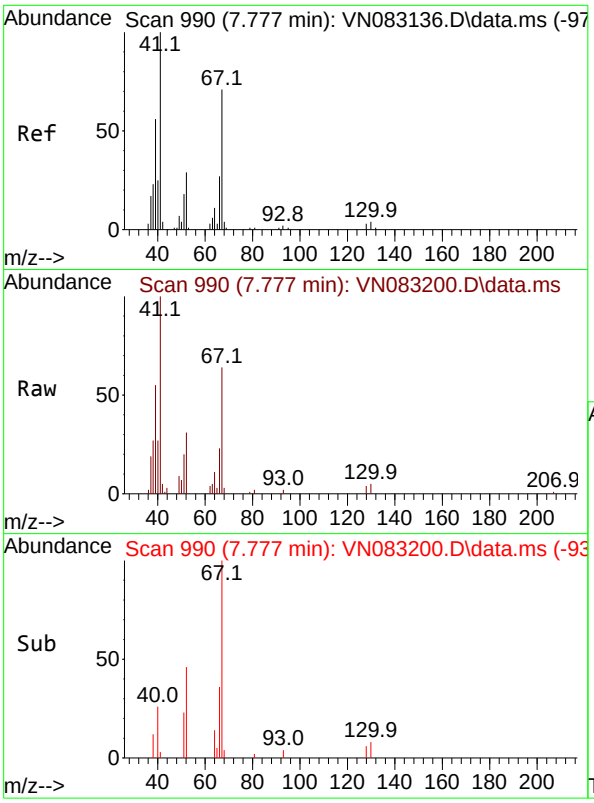


#40
Benzene
Concen: 18.979 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 78 Resp: 157797

Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.0	28.4

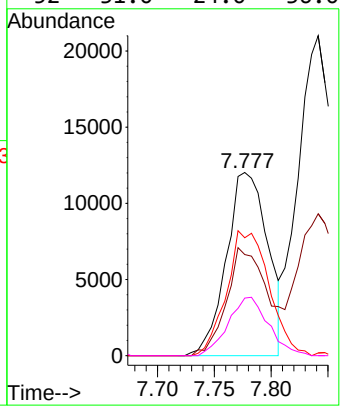




#41
Methacrylonitrile
Concen: 17.158 ug/l
RT: 7.777 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 41 Resp: 3048

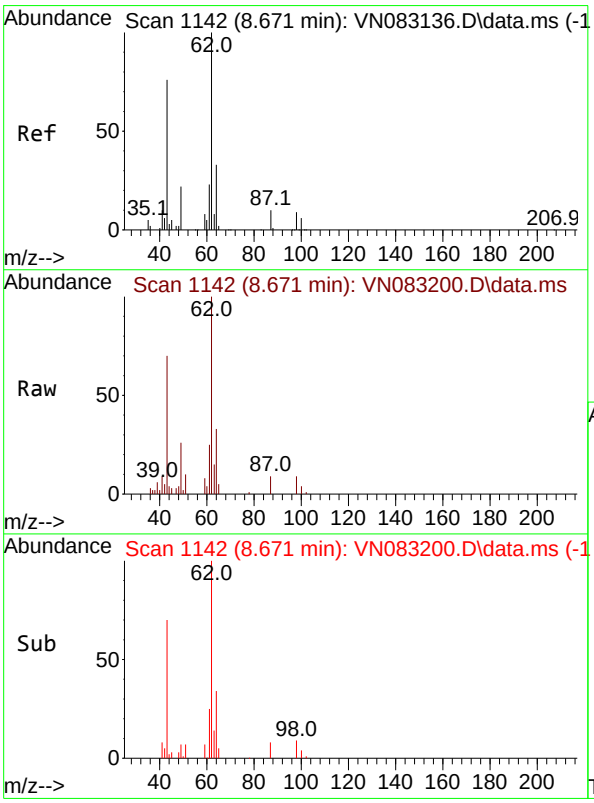
Ion	Ratio	Lower	Upper
41	100		
39	60.0	45.5	68.3
67	69.8	50.5	75.7
52	31.0	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

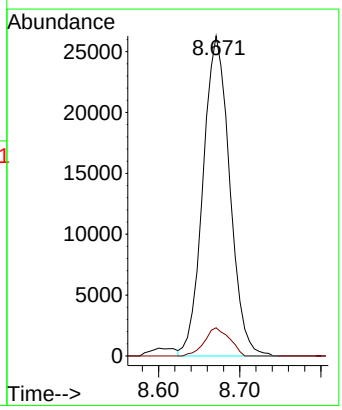
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

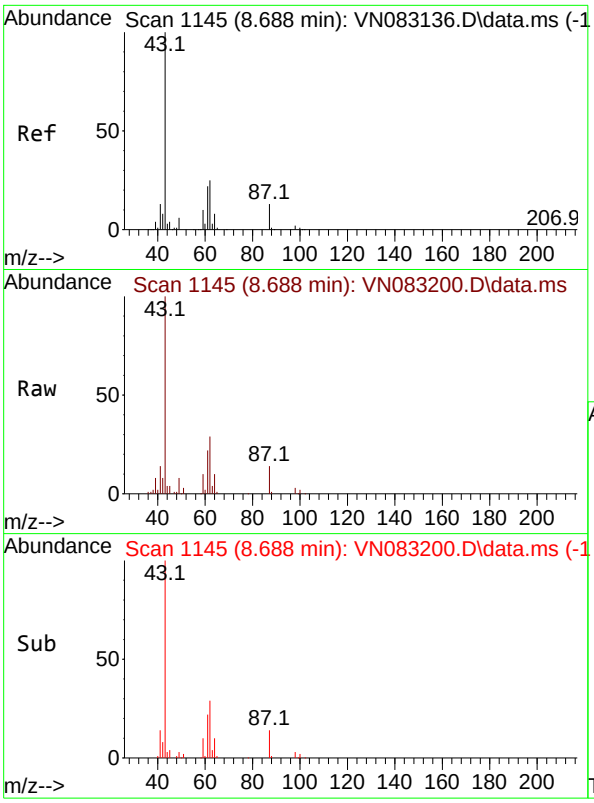


#42
1,2-Dichloroethane
Concen: 19.797 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 62 Resp: 59959

Ion	Ratio	Lower	Upper
62	100		
98	8.3	0.0	15.8





#43
Isopropyl Acetate
Concen: 16.747 ug/l
RT: 8.688 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

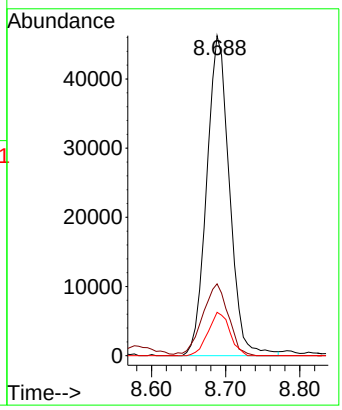
Tgt Ion: 43 Resp: 9866

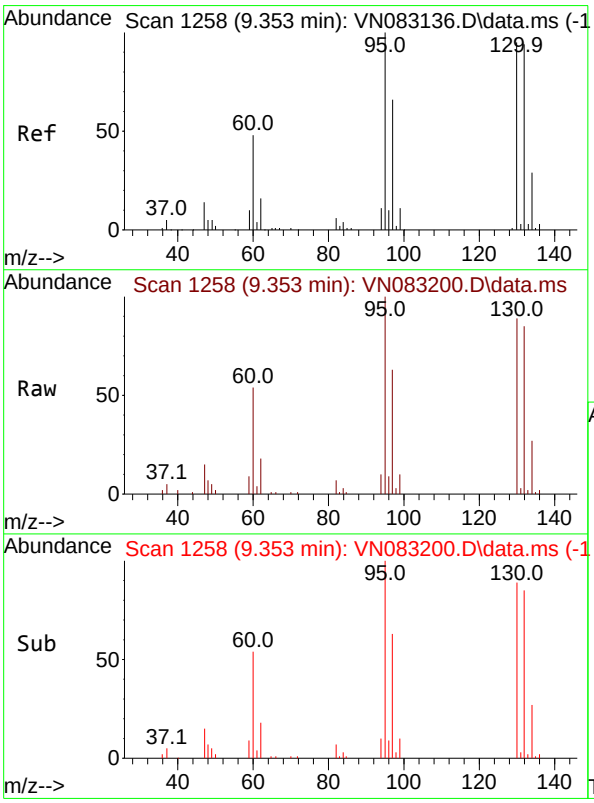
Ion	Ratio	Lower	Upper
43	100		
61	25.4	17.8	26.6
87	13.0	8.2	12.2

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

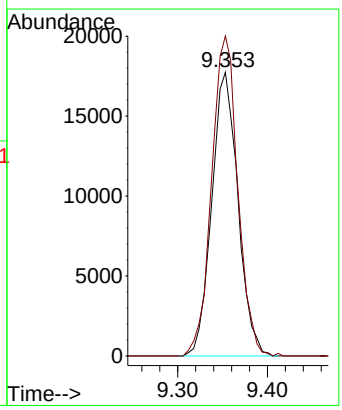


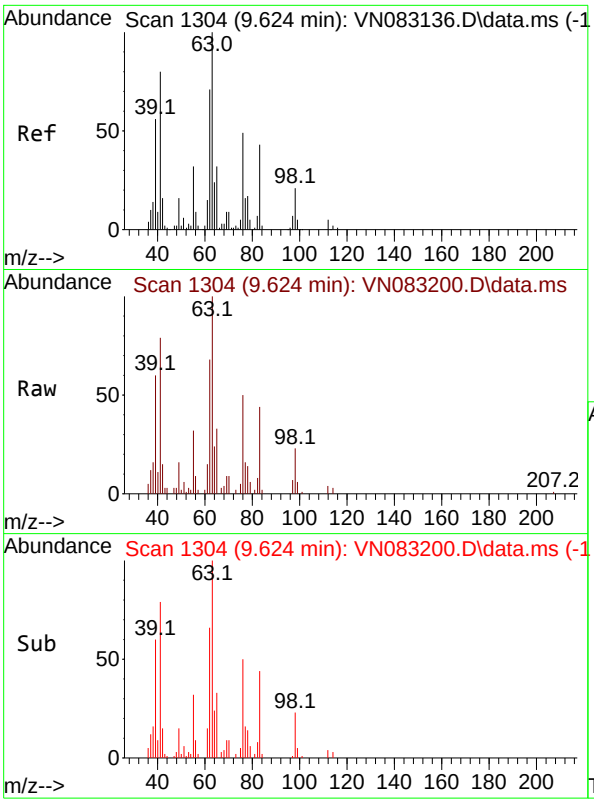


#44
Trichloroethene
Concen: 18.163 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion:130 Resp: 35945

Ion	Ratio	Lower	Upper
130	100		
95	112.8	0.0	197.8





#45
1,2-Dichloropropane
Concen: 19.416 ug/l
RT: 9.624 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

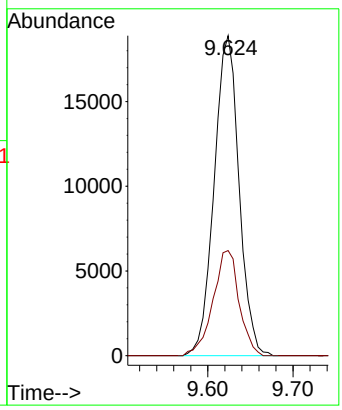
Tgt Ion: 63 Resp: 3831

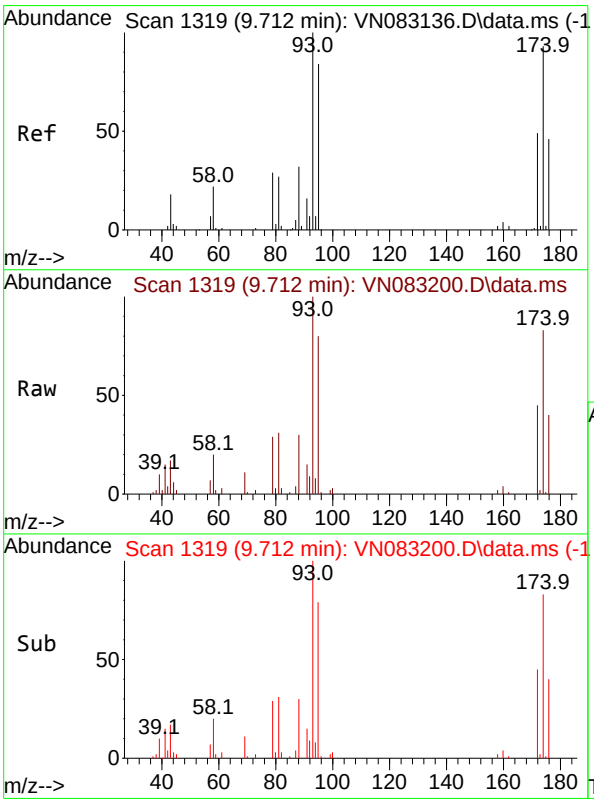
Ion	Ratio	Lower	Upper
63	100		
65	32.8	24.4	36.6

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

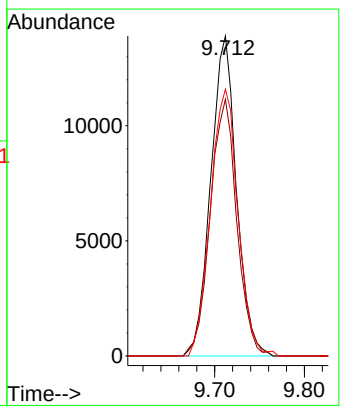


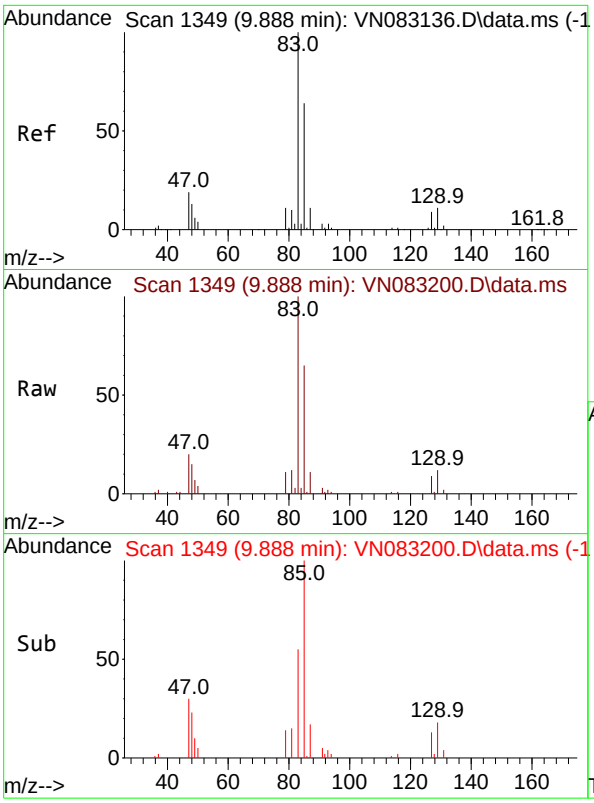


#46
Dibromomethane
Concen: 19.561 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 93 Resp: 27633

Ion	Ratio	Lower	Upper
93	100		
95	82.8	65.8	98.6
174	89.4	71.7	107.5

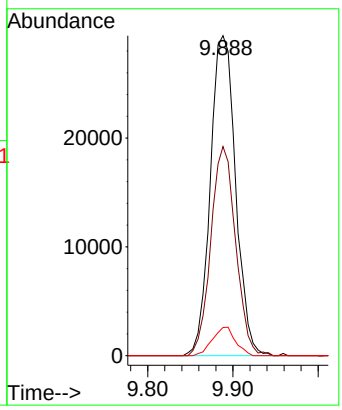




#47
Bromodichloromethane
Concen: 19.098 ug/l
RT: 9.888 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 83 Resp: 6057

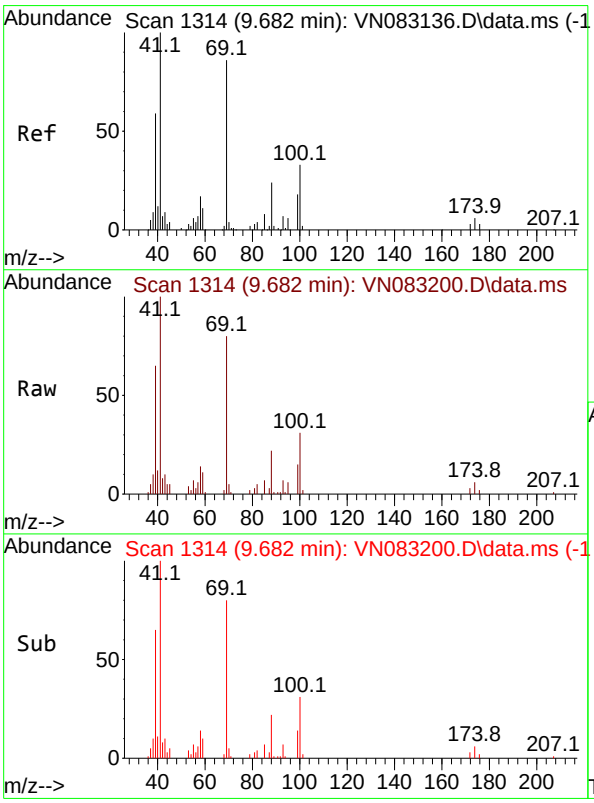
Ion	Ratio	Lower	Upper
83	100		
85	65.4	51.1	76.7
127	8.8	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

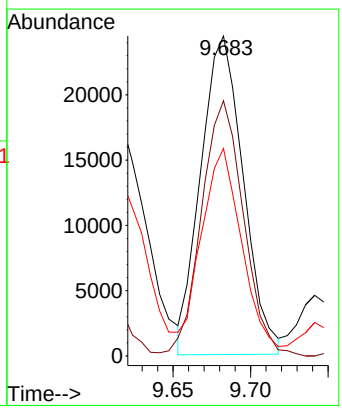
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

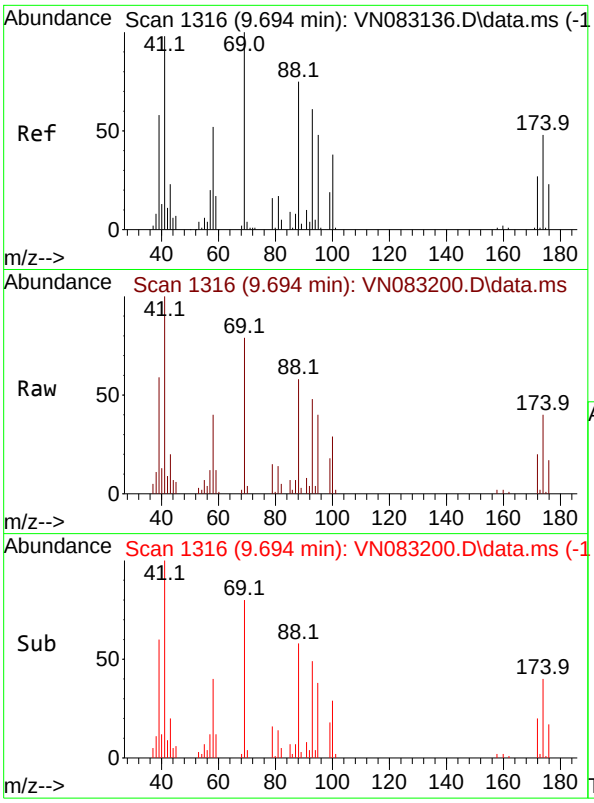


#48
Methyl methacrylate
Concen: 17.983 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 41 Resp: 46460

Ion	Ratio	Lower	Upper
41	100		
69	79.5	56.3	84.5
39	62.4	50.3	75.5

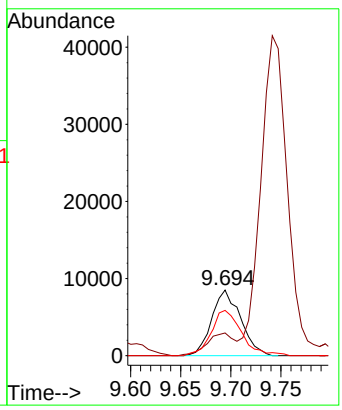




#49
1,4-Dioxane
Concen: 366.403 ug/l
RT: 9.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 88 Resp: 1707

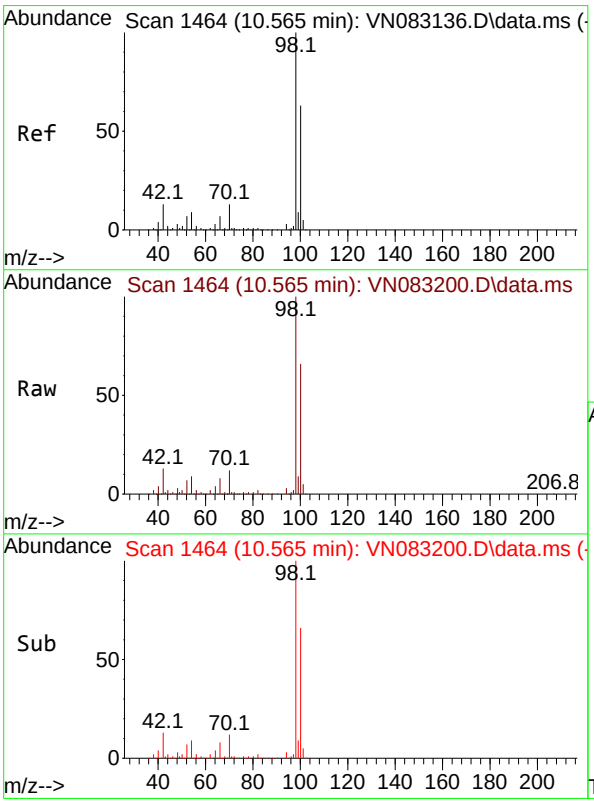
Ion	Ratio	Lower	Upper
88	100		
43	32.6	27.8	41.8
58	72.4	59.4	89.0



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

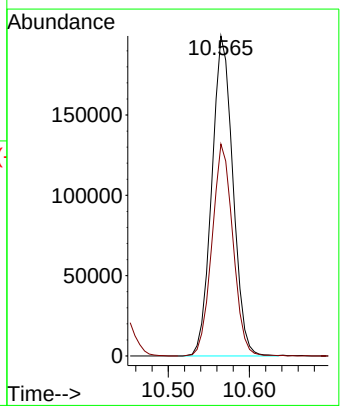
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

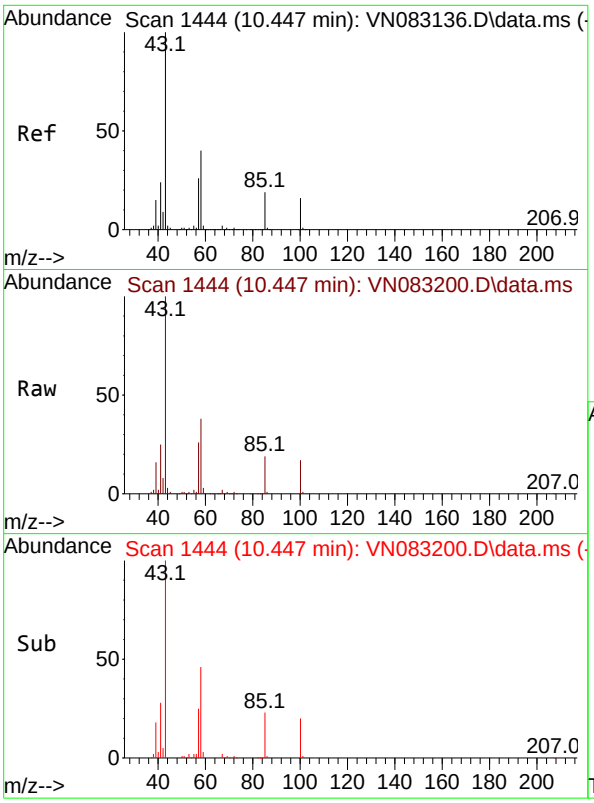


#50
Toluene-d8
Concen: 52.302 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 98 Resp: 359957

Ion	Ratio	Lower	Upper
98	100		
100	65.7	51.5	77.3





#51
4-Methyl-2-Pentanone
Concen: 96.405 ug/l
RT: 10.447 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

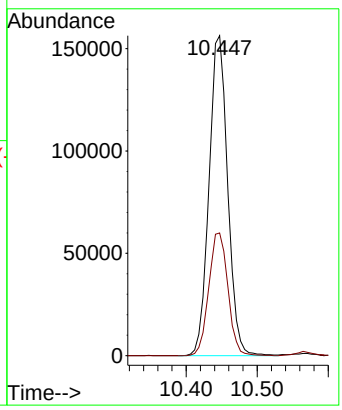
Tgt Ion: 43 Resp: 28488(

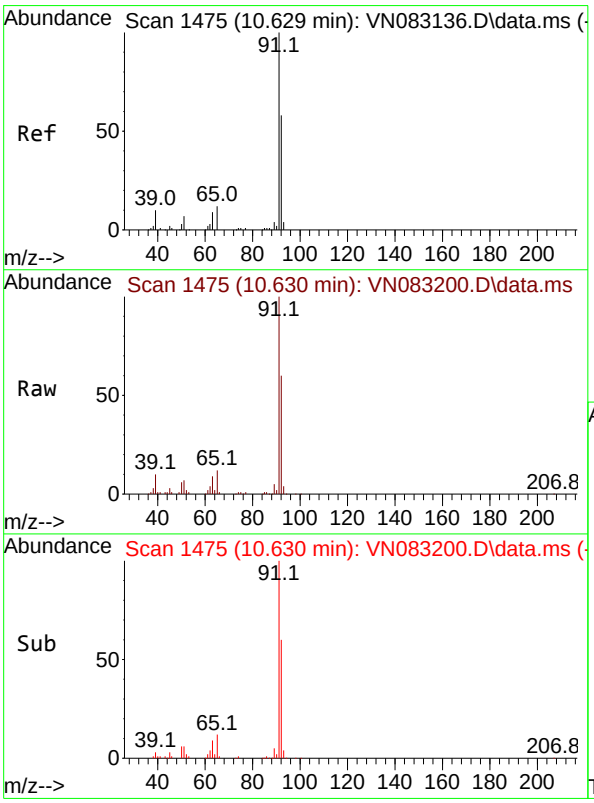
Ion	Ratio	Lower	Upper
43	100		
58	39.4	28.2	42.4

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

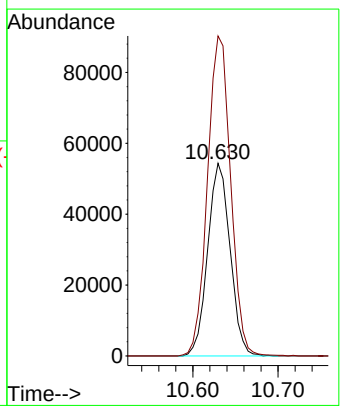


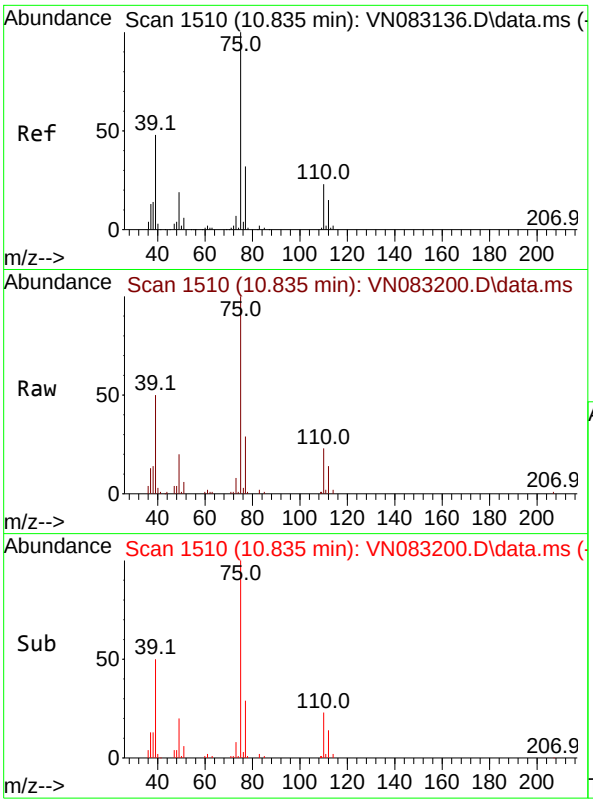


#52
Toluene
Concen: 18.932 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 92 Resp: 99457

Ion	Ratio	Lower	Upper
92	100		
91	171.9	139.4	209.0

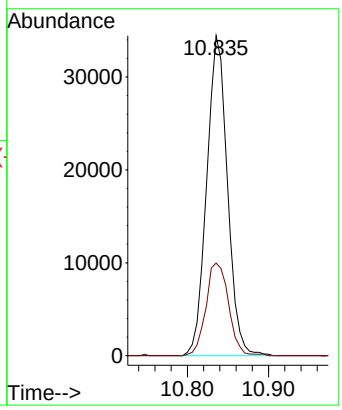




#53
t-1,3-Dichloropropene
Concen: 18.760 ug/l
RT: 10.835 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 75 Resp: 6112

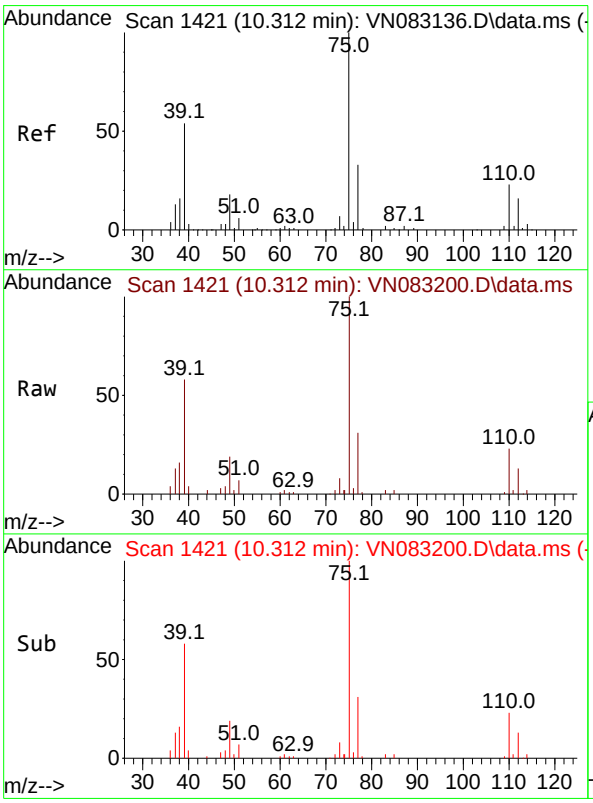
Ion	Ratio	Lower	Upper
75	100		
77	29.0	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

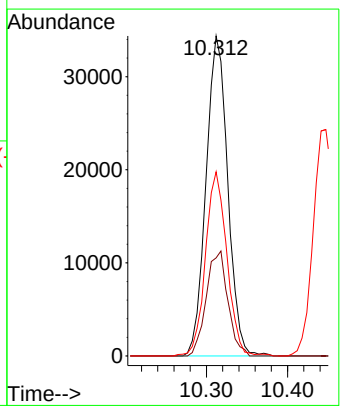
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

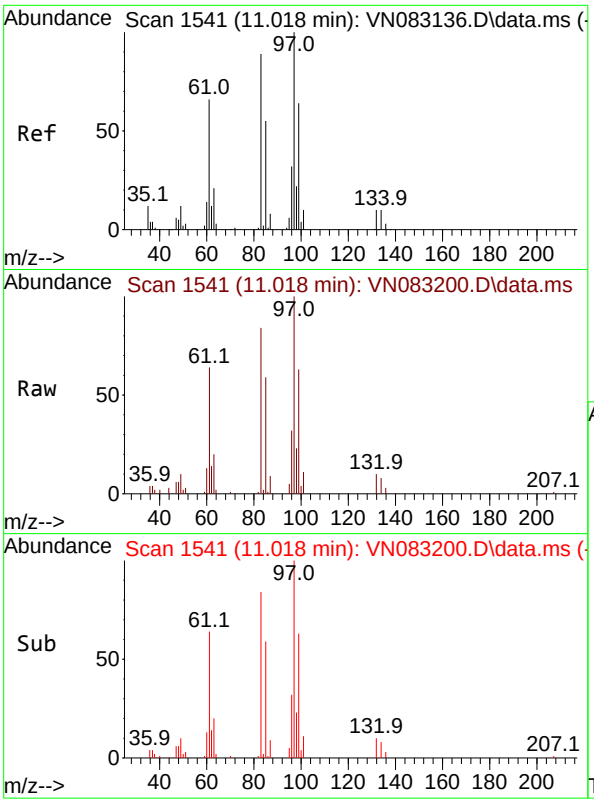


#54
cis-1,3-Dichloropropene
Concen: 18.440 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 75 Resp: 63904

Ion	Ratio	Lower	Upper
75	100		
77	30.7	24.3	36.5
39	57.6	50.5	75.7

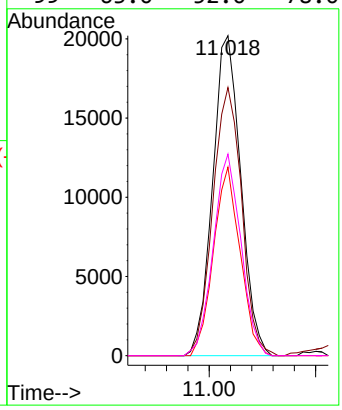




#55
1,1,2-Trichloroethane
Concen: 19.703 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 97 Resp: 3709

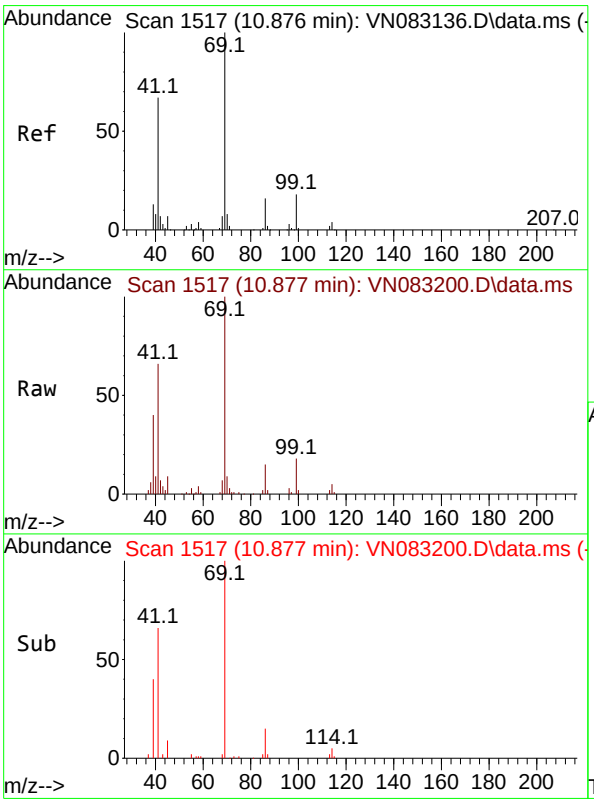
Ion	Ratio	Lower	Upper
97	100		
83	83.8	71.4	107.0
85	58.9	45.8	68.6
99	63.0	52.0	78.0



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

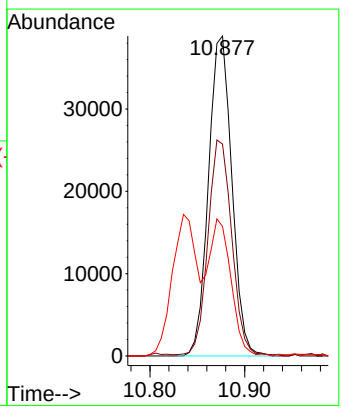
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

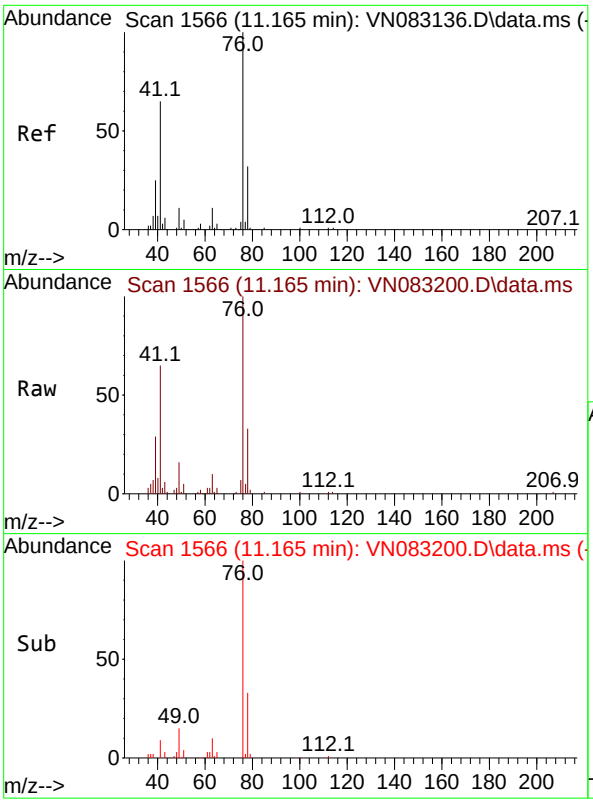


#56
Ethyl methacrylate
Concen: 18.784 ug/l
RT: 10.877 min Scan# 1517
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 69 Resp: 66666

Ion	Ratio	Lower	Upper
69	100		
41	69.2	63.4	95.2
39	42.2	37.4	56.0





#57
1,3-Dichloropropane
Concen: 19.506 ug/l
RT: 11.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

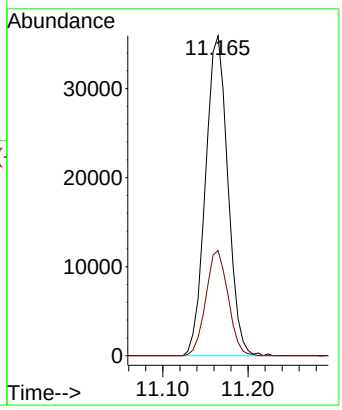
Tgt Ion: 76 Resp: 6545

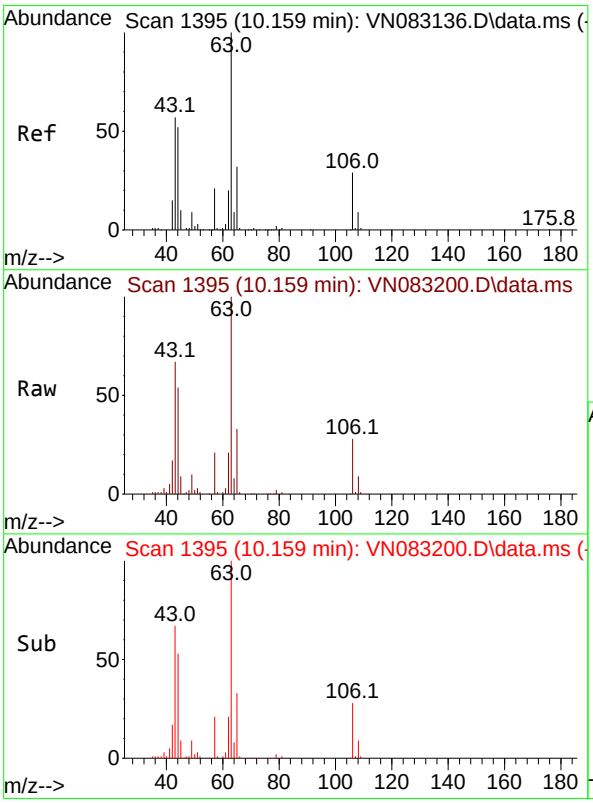
Ion	Ratio	Lower	Upper
76	100		
78	32.8	25.6	38.4

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

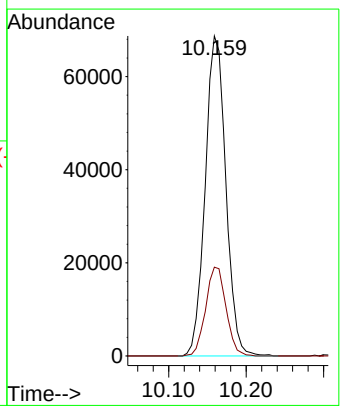


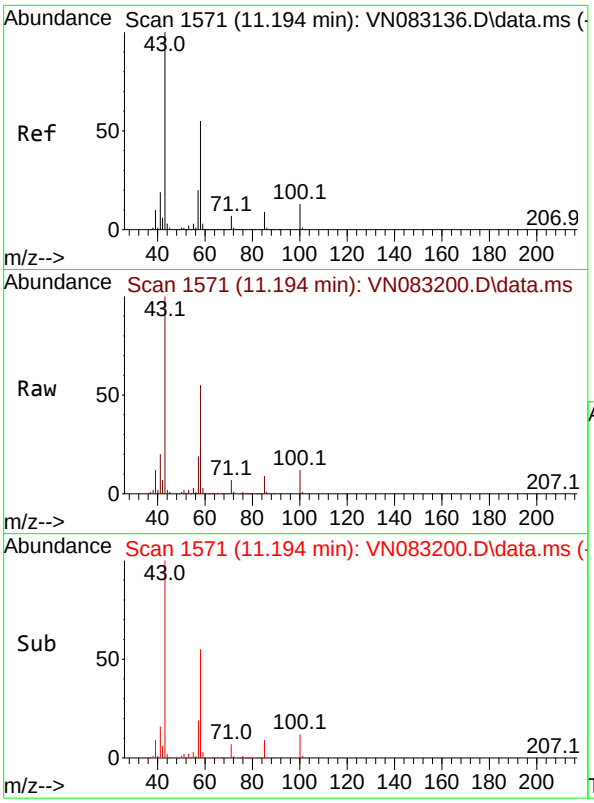


#58
2-Chloroethyl Vinyl ether
Concen: 84.673 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 63 Resp: 127028

Ion	Ratio	Lower	Upper
63	100		
106	27.4	21.4	32.0





#59
2-Hexanone
Concen: 94.847 ug/l
RT: 11.194 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

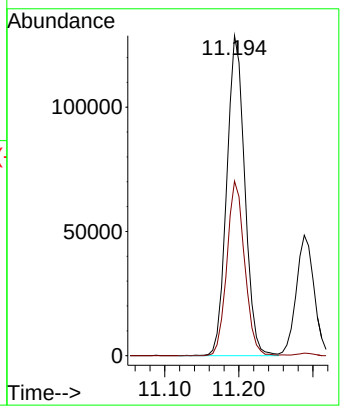
Tgt Ion: 43 Resp: 21683

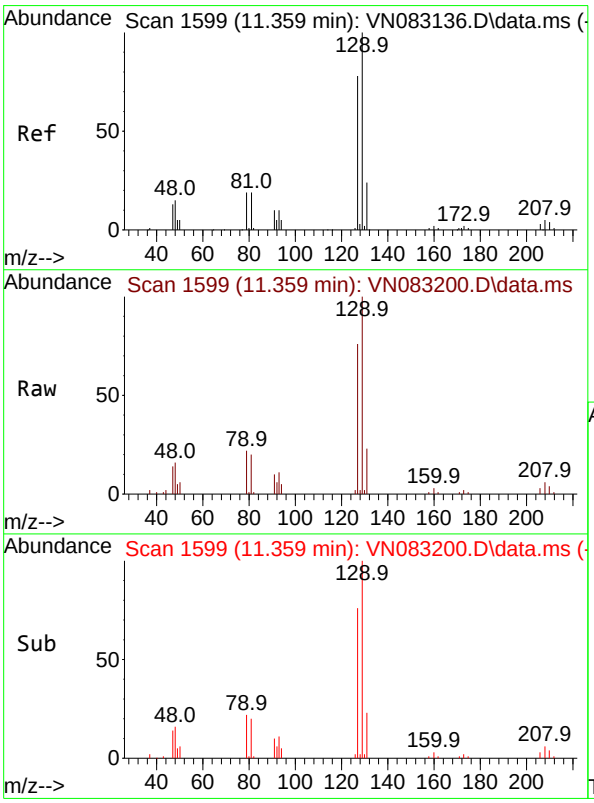
Ion	Ratio	Lower	Upper
43	100		
58	53.9	24.6	73.8

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

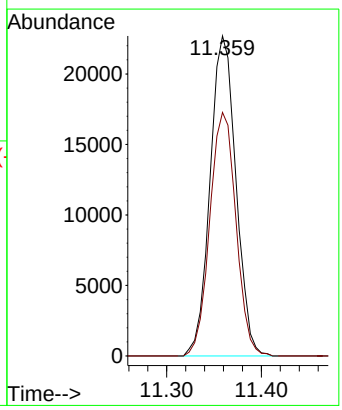


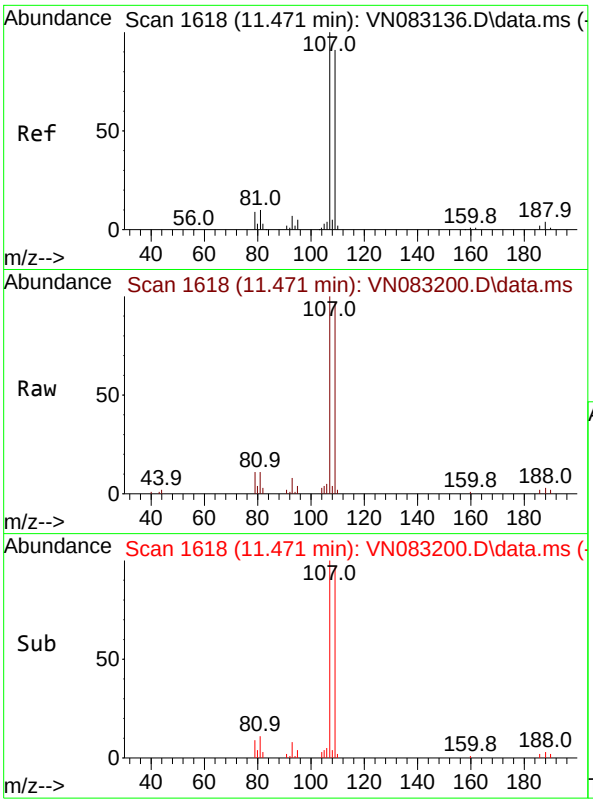


#60
Dibromochloromethane
Concen: 18.926 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion:129 Resp: 43079

Ion	Ratio	Lower	Upper
129	100		
127	77.0	39.2	117.6





#61
1,2-Dibromoethane
Concen: 18.860 ug/l
RT: 11.471 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

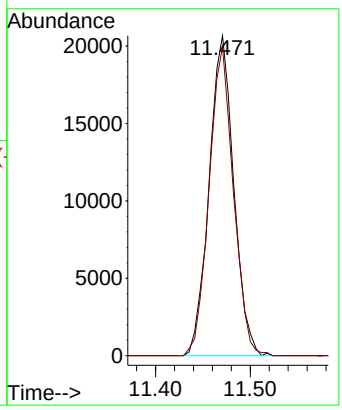
Tgt Ion:107 Resp: 3729

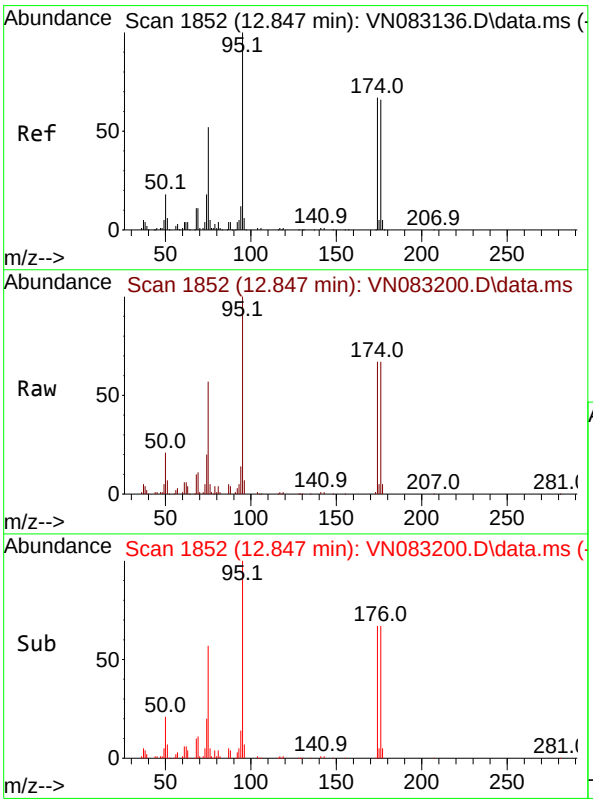
Ion	Ratio	Lower	Upper
107	100		
109	95.2	73.7	110.5

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

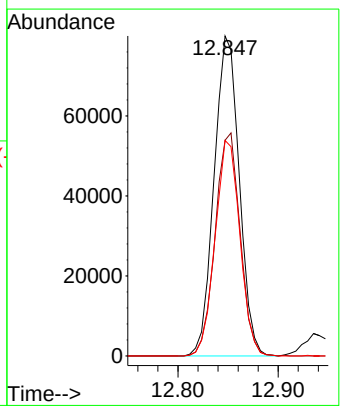


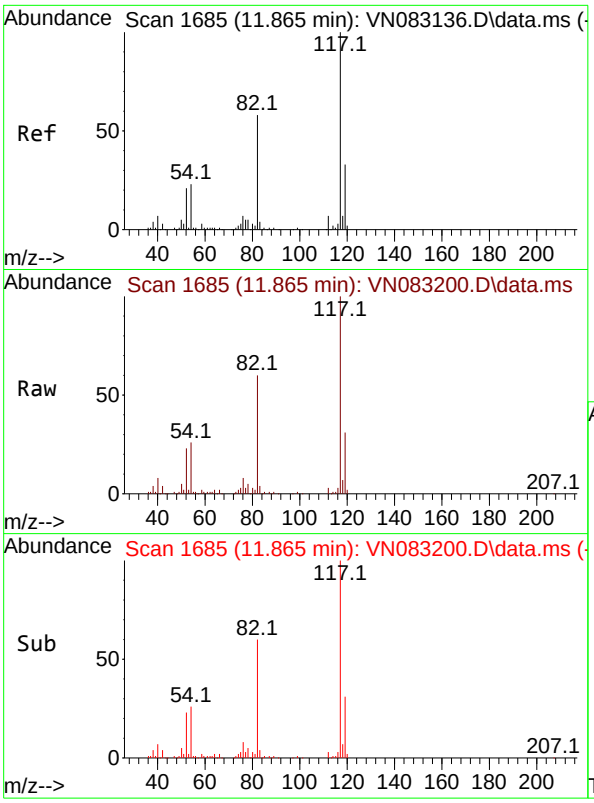


#62
4-Bromofluorobenzene
Concen: 51.837 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 95 Resp: 139086

Ion	Ratio	Lower	Upper
95	100		
174	69.2	0.0	159.2
176	66.6	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: VN083200.D
Acq: 10 Aug 2024 11:58

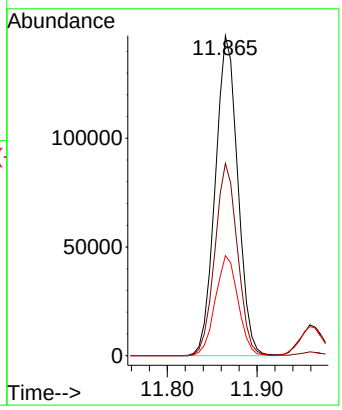
Tgt Ion:117 Resp: 25669

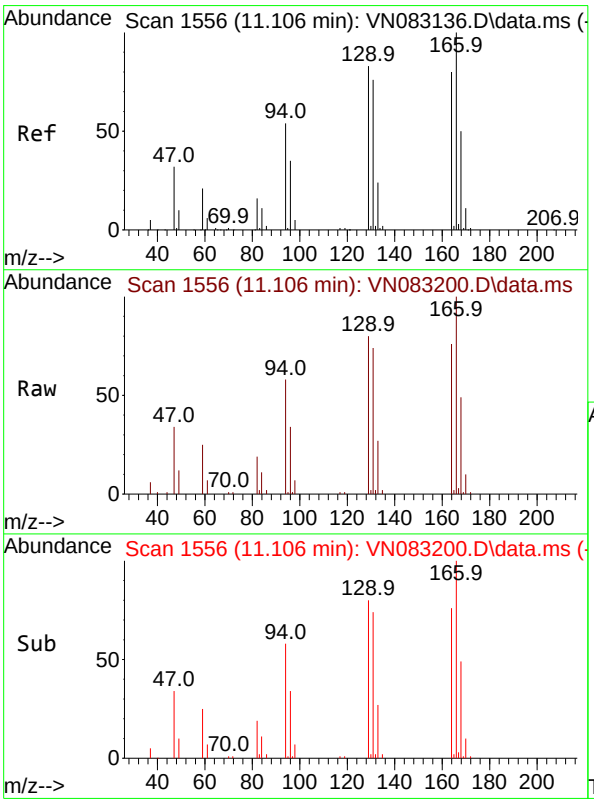
Ion	Ratio	Lower	Upper
117	100		
82	60.1	47.5	71.3
119	31.3	25.6	38.4

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

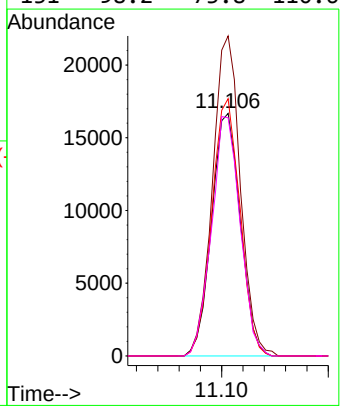


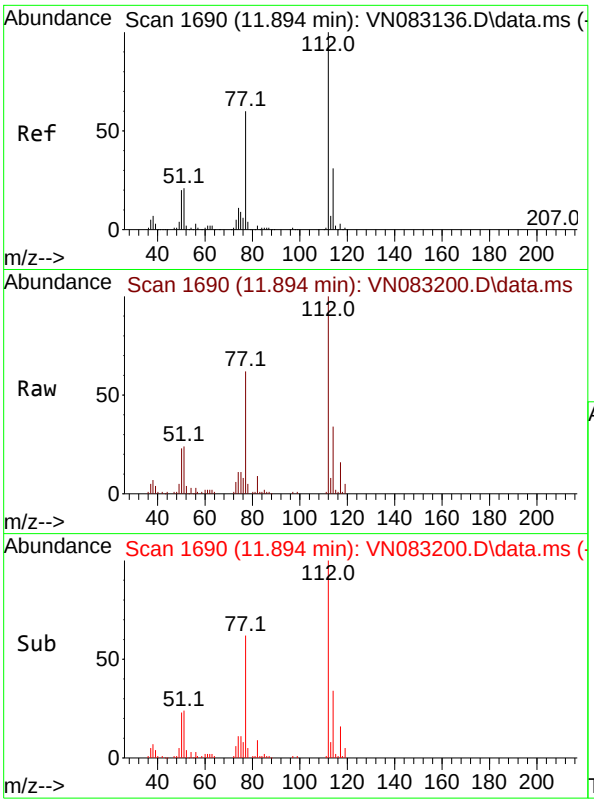


#64
Tetrachloroethene
Concen: 18.328 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion:164 Resp: 31159

Ion	Ratio	Lower	Upper
164	100		
166	131.9	101.4	152.0
129	106.0	75.7	113.5
131	98.2	73.8	110.6

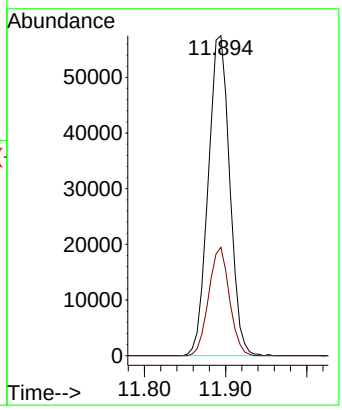




#65
Chlorobenzene
Concen: 18.648 ug/l
RT: 11.894 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion:112 Resp: 10578

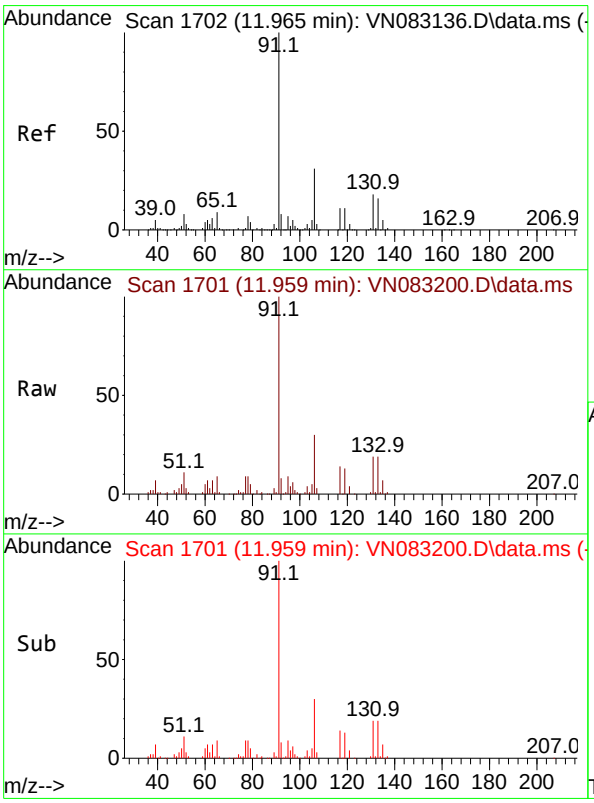
Ion	Ratio	Lower	Upper
112	100		
114	33.9	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

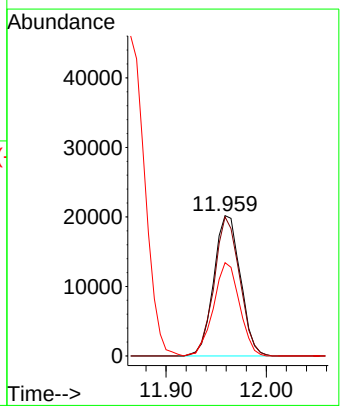
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

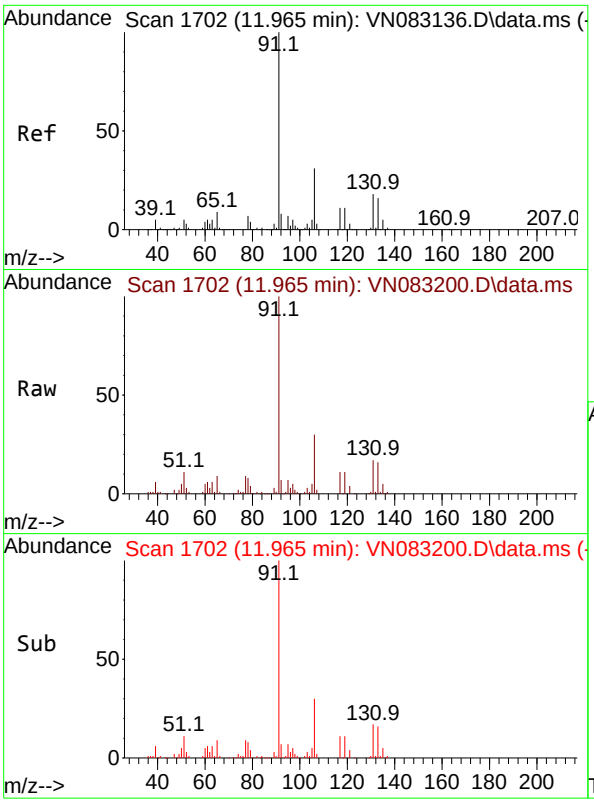


#66
1,1,1,2-Tetrachloroethane
Concen: 18.566 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion:131 Resp: 37144

Ion	Ratio	Lower	Upper
131	100		
133	95.2	47.3	142.0
119	65.0	32.5	97.4





#67
Ethyl Benzene
Concen: 18.794 ug/l
RT: 11.965 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

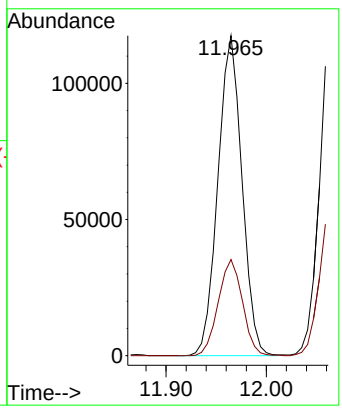
Tgt Ion: 91 Resp: 19557

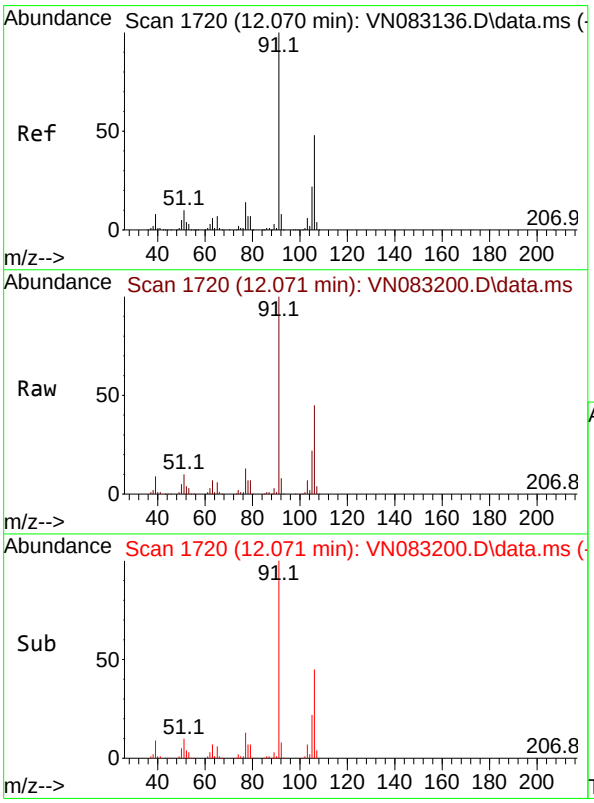
Ion	Ratio	Lower	Upper
91	100		
106	30.1	24.0	36.0

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

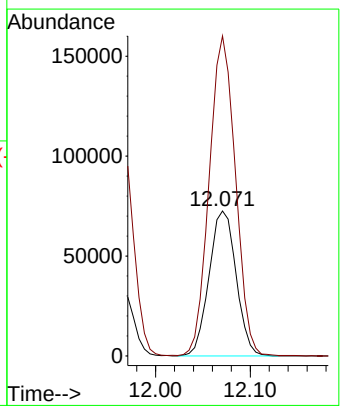


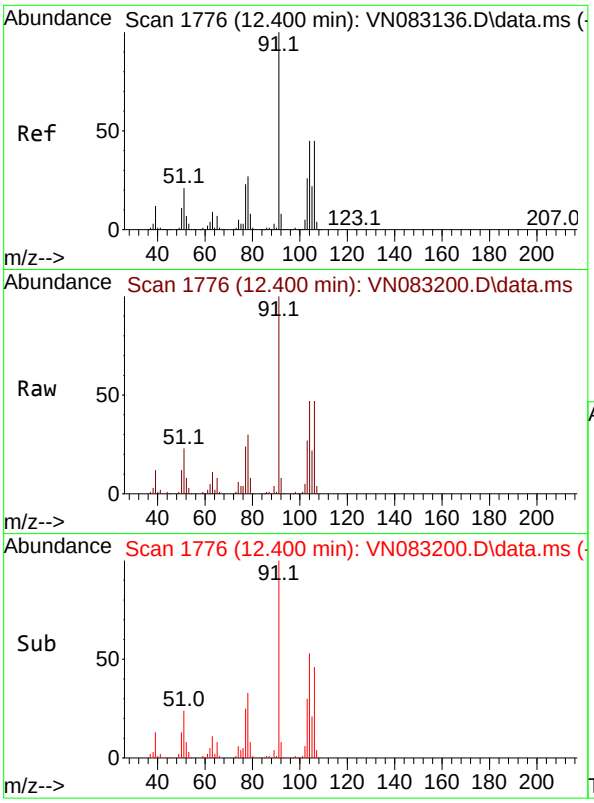


#68
m/p-Xylenes
Concen: 36.936 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion:106 Resp: 143982

Ion	Ratio	Lower	Upper
106	100		
91	214.5	166.1	249.1





#69
o-Xylene
Concen: 18.650 ug/l
RT: 12.400 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

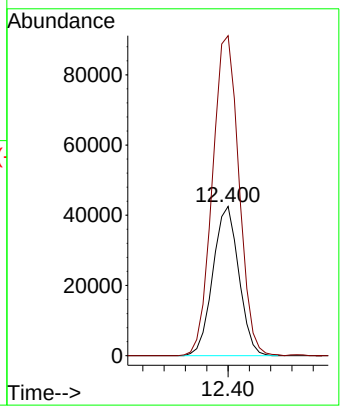
Tgt Ion:106 Resp: 7170

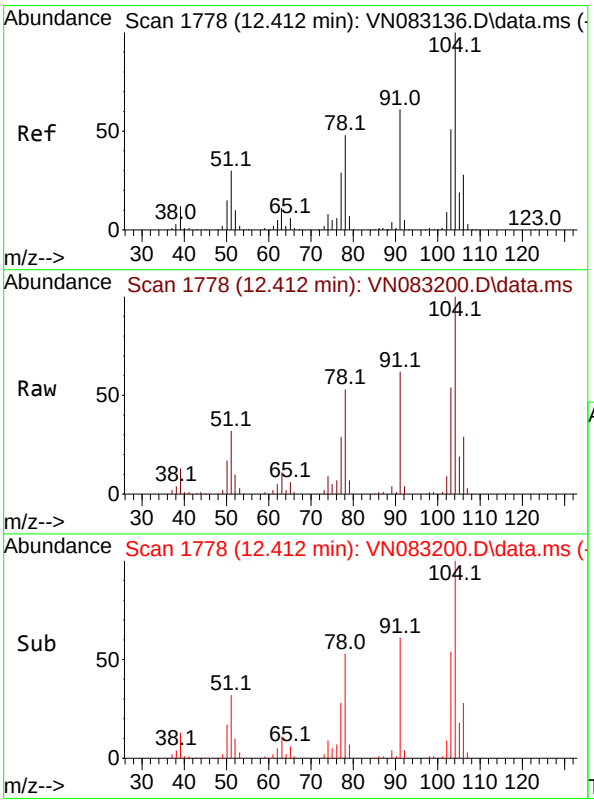
Ion	Ratio	Lower	Upper
106	100		
91	219.7	111.3	333.9

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

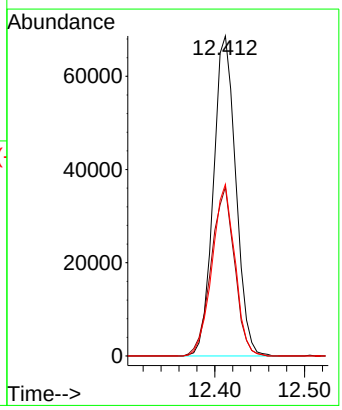


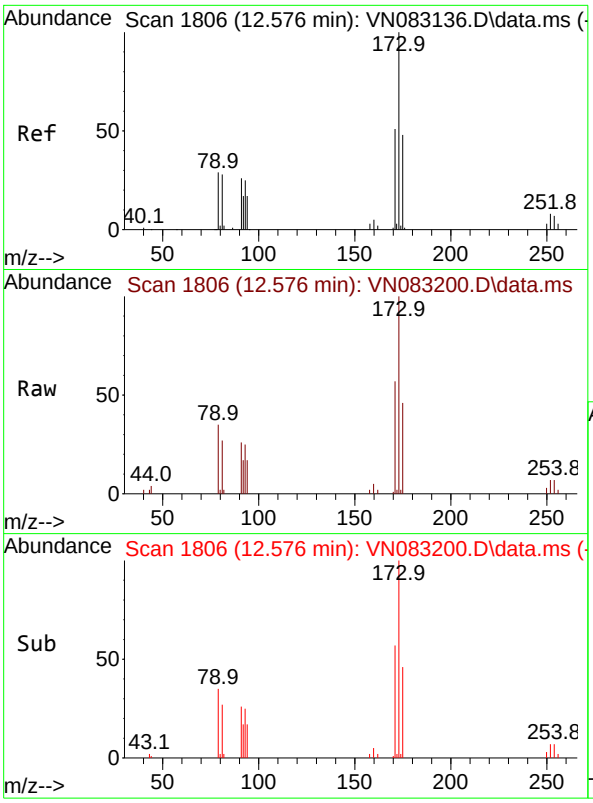


#70
Styrene
Concen: 18.432 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion:104 Resp: 119023

Ion	Ratio	Lower	Upper
104	100		
78	54.9	41.6	62.4
103	54.5	44.0	66.0

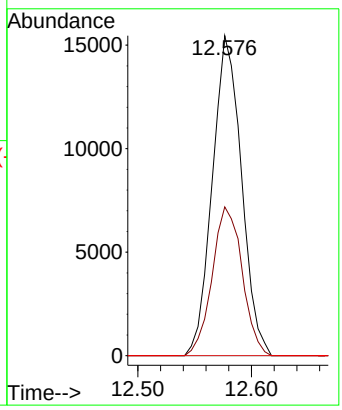




#71
Bromoform
Concen: 18.163 ug/l
RT: 12.576 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion:173 Resp: 2752

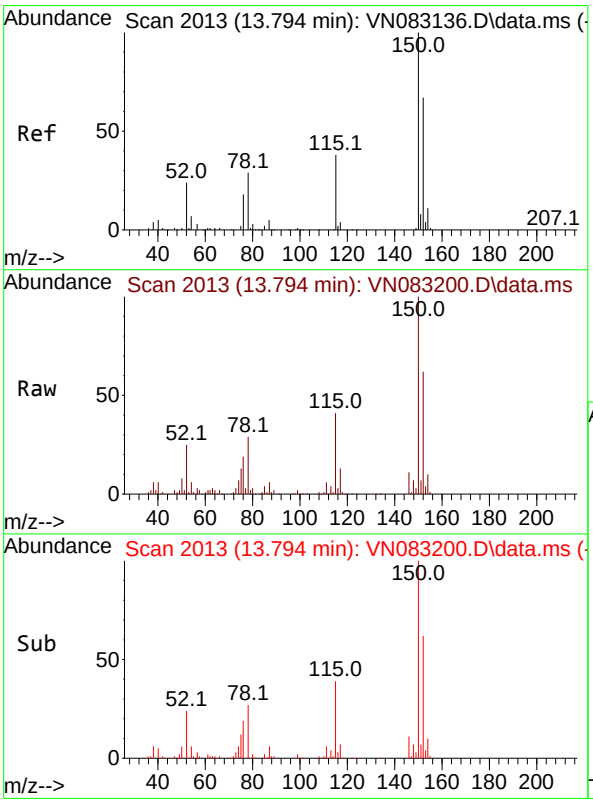
Ion	Ratio	Lower	Upper
173	100		
175	47.9	24.0	72.0
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

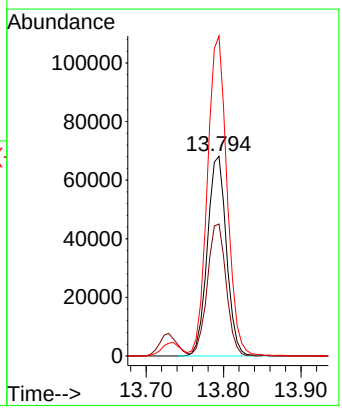
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

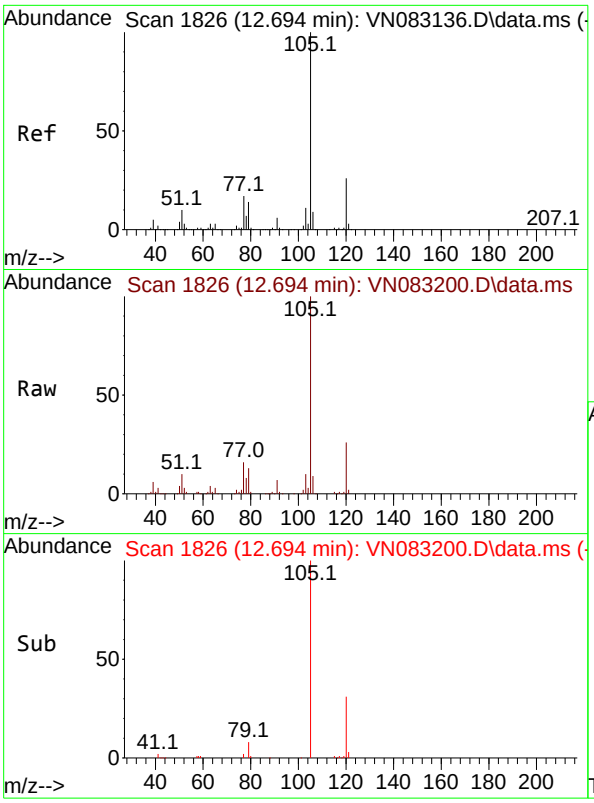


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion:152 Resp: 116986

Ion	Ratio	Lower	Upper
152	100		
115	65.6	30.6	91.6
150	164.0	0.0	348.6





#73
Isopropylbenzene
Concen: 18.923 ug/l
RT: 12.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

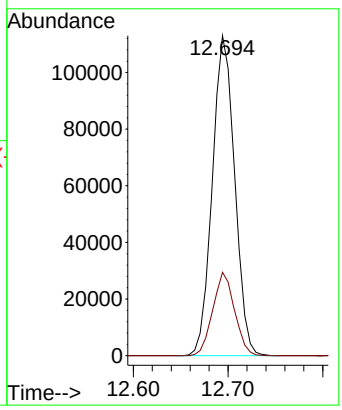
Tgt Ion:105 Resp: 18515

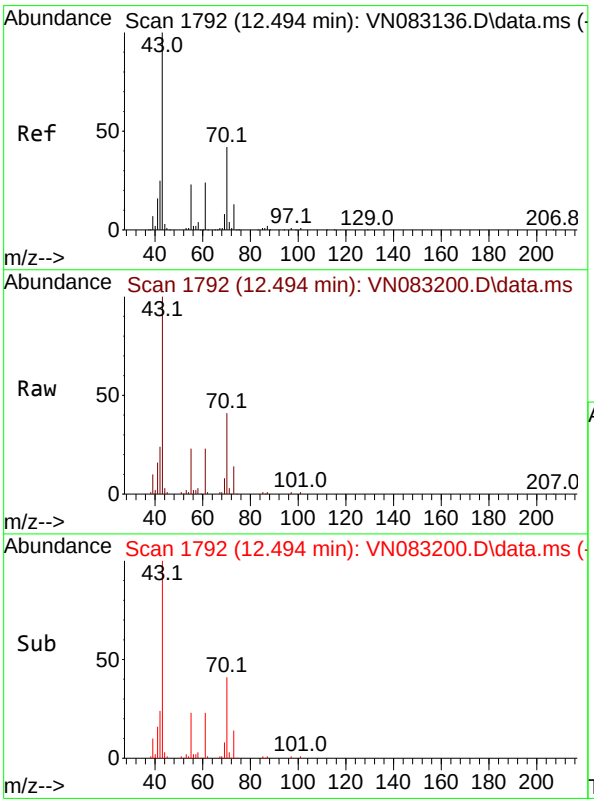
Ion	Ratio	Lower	Upper
105	100		
120	25.4	12.9	38.6

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

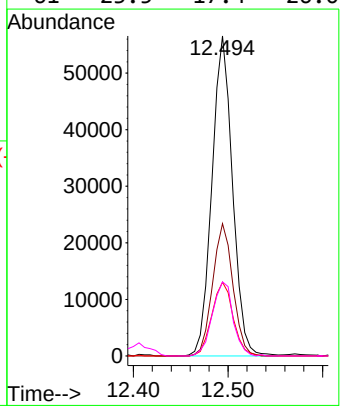


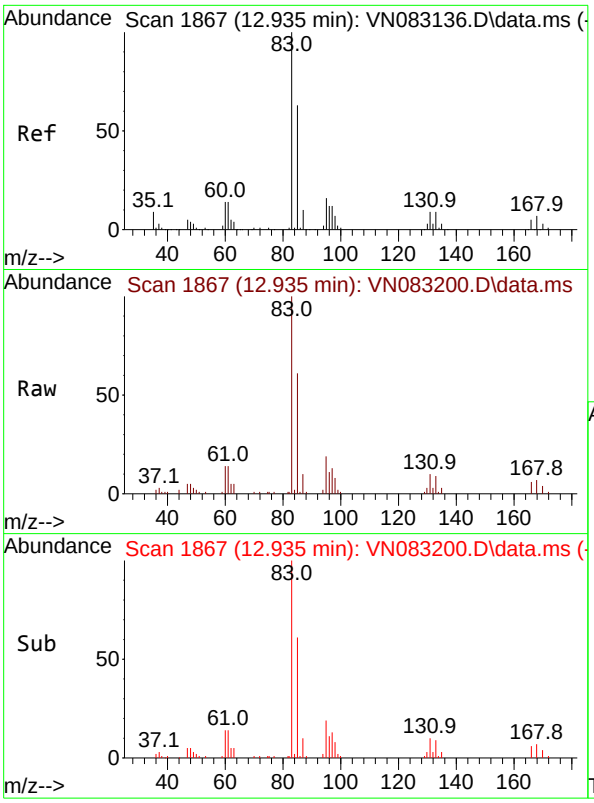


#74
N-amyl acetate
Concen: 17.848 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 43 Resp: 85424

Ion	Ratio	Lower	Upper
43	100		
70	40.8	29.8	44.6
55	23.9	18.7	28.1
61	23.5	17.4	26.0





#75
1,1,2,2-Tetrachloroethane
Concen: 19.014 ug/l
RT: 12.935 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

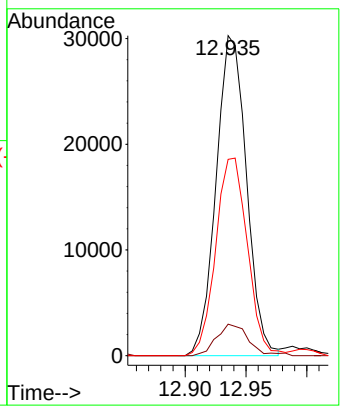
Tgt Ion: 83 Resp: 5262

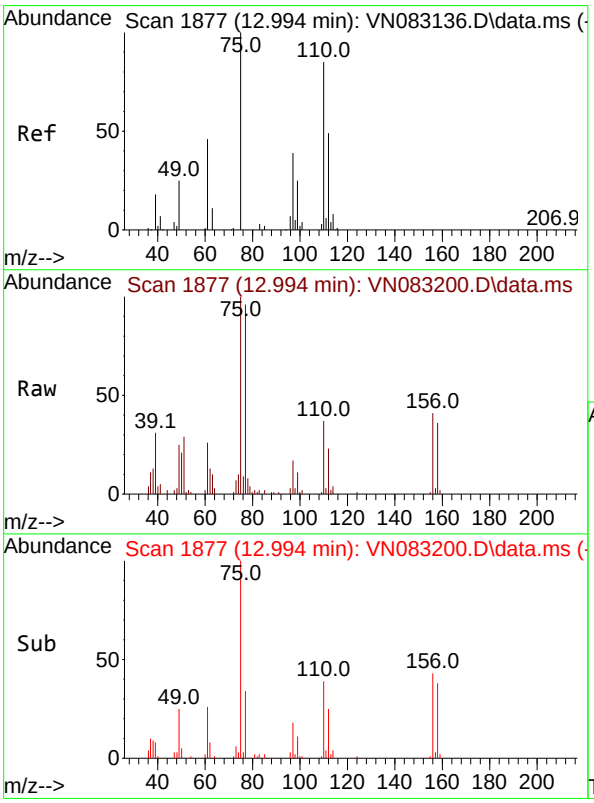
Ion	Ratio	Lower	Upper
83	100		
131	10.4	5.0	14.9
85	64.4	31.9	95.7

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

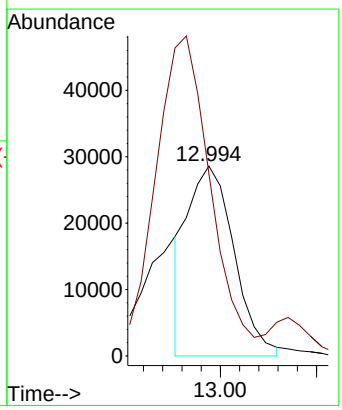


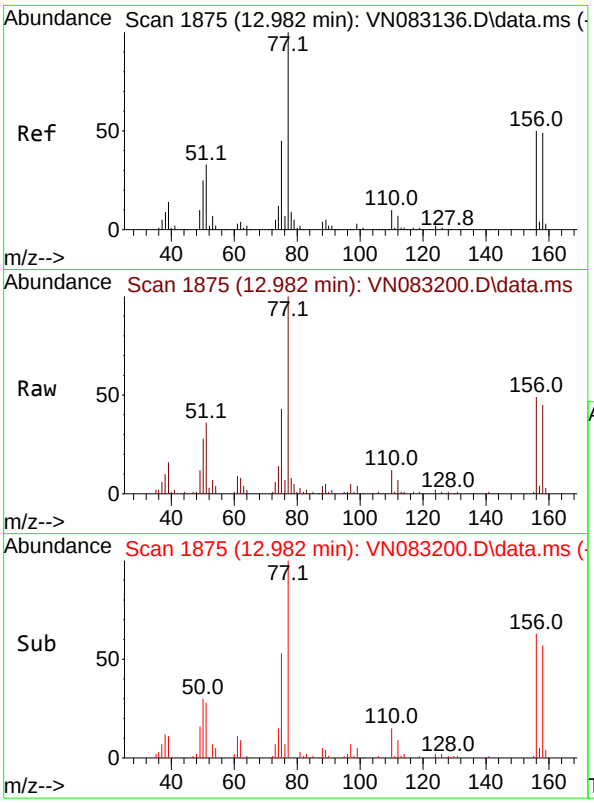


#76
1,2,3-Trichloropropane
Concen: 18.634 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 75 Resp: 47844

Ion	Ratio	Lower	Upper
75	100		
77	200.7	110.9	332.6

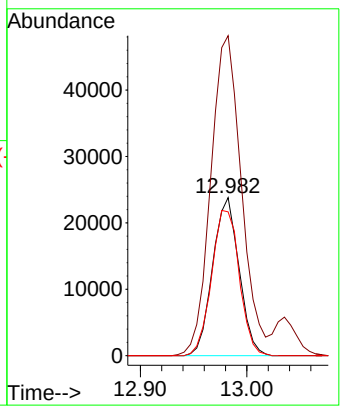




#77
Bromobenzene
Concen: 18.848 ug/l
RT: 12.982 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion:156 Resp: 4096

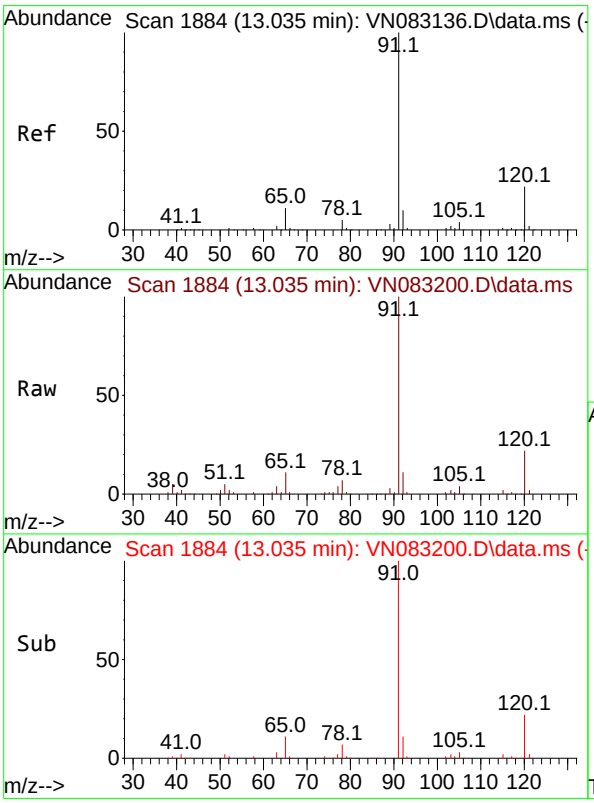
Ion	Ratio	Lower	Upper
156	100		
77	234.3	111.3	333.8
158	96.5	48.3	144.9



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

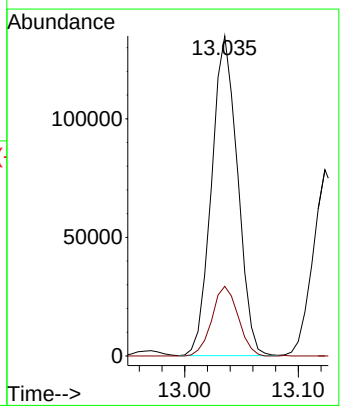
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

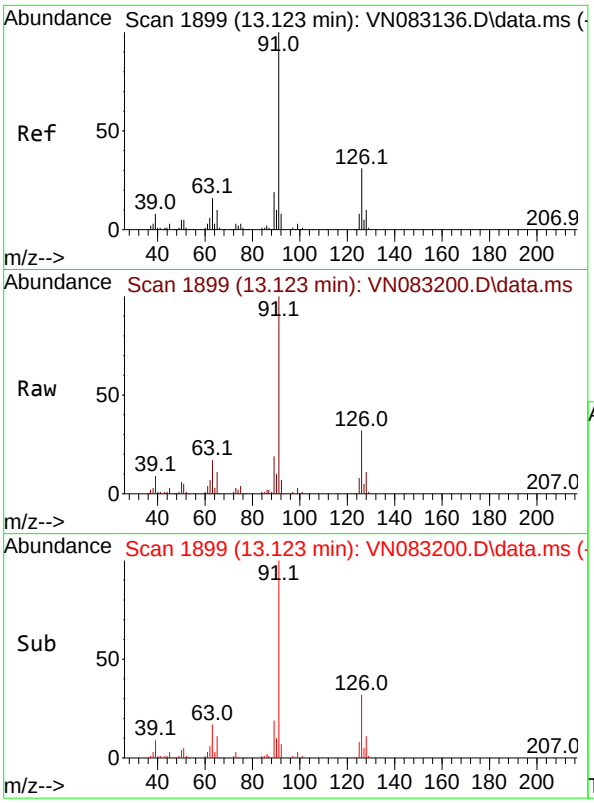


#78
n-propylbenzene
Concen: 19.031 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 91 Resp: 214421

Ion	Ratio	Lower	Upper
91	100		
120	21.9	10.9	32.9

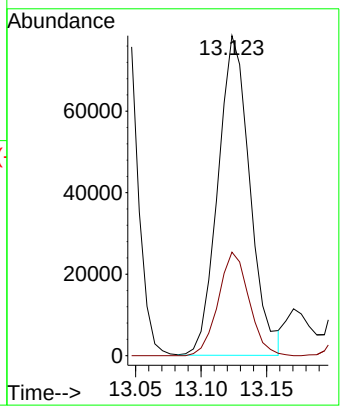




#79
2-Chlorotoluene
Concen: 18.624 ug/l
RT: 13.123 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 91 Resp: 13304

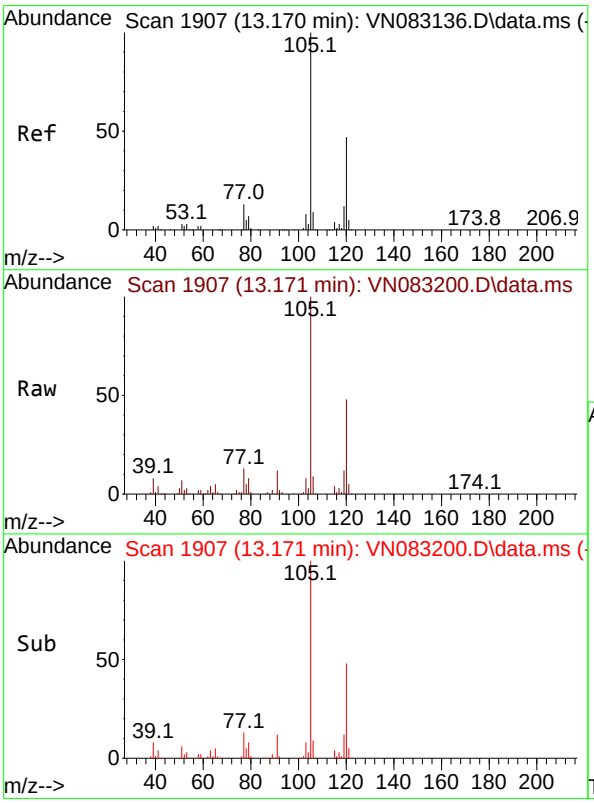
Ion	Ratio	Lower	Upper
91	100		
126	31.1	16.2	48.6



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

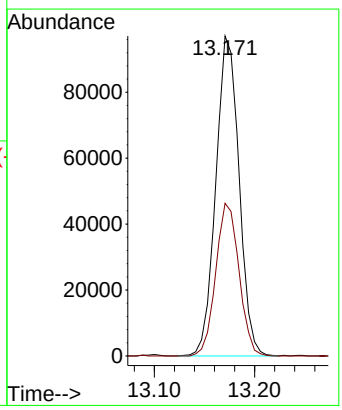
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

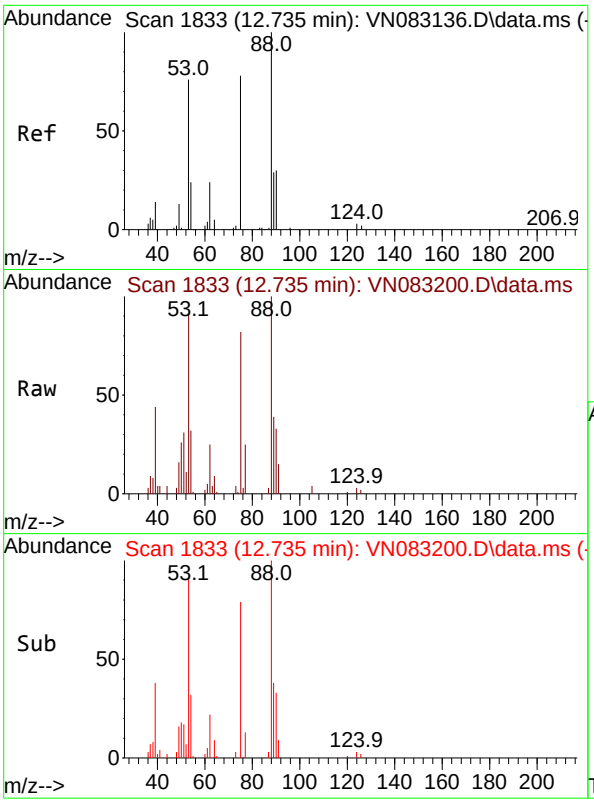


#80
1,3,5-Trimethylbenzene
Concen: 19.054 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion:105 Resp: 156096

Ion	Ratio	Lower	Upper
105	100		
120	47.7	24.3	72.8





#81
trans-1,4-Dichloro-2-butene
Concen: 16.257 ug/l
RT: 12.735 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

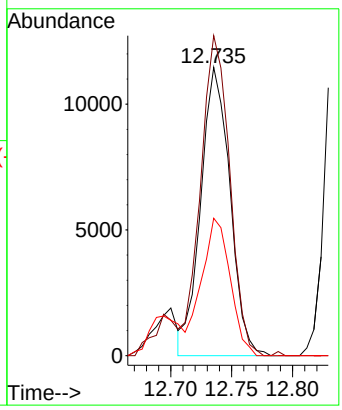
Tgt Ion: 75 Resp: 1918

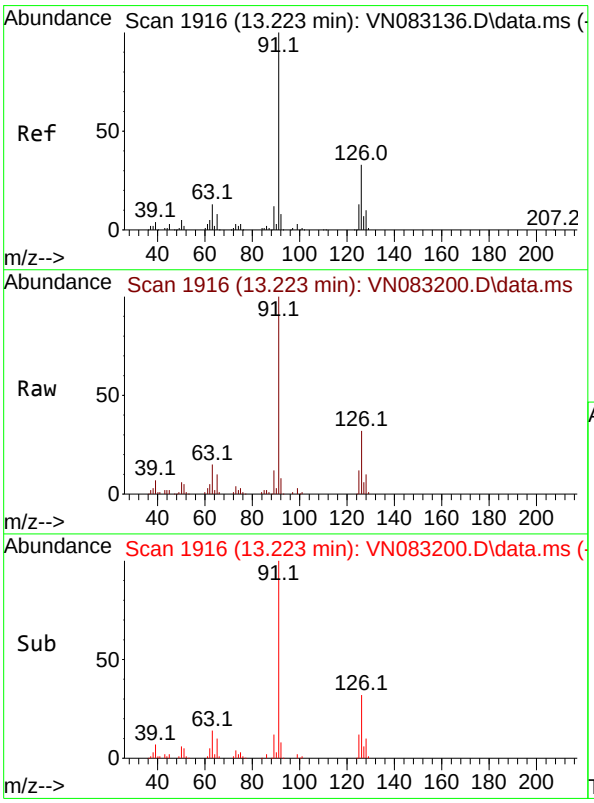
Ion	Ratio	Lower	Upper
75	100		
53	110.6	88.4	132.6
89	46.6	36.3	54.5

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

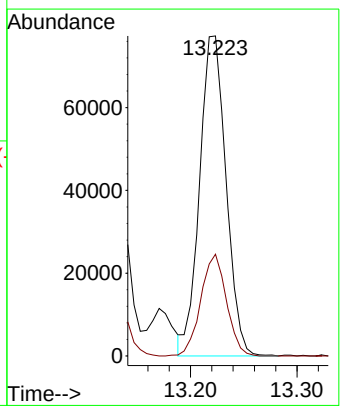


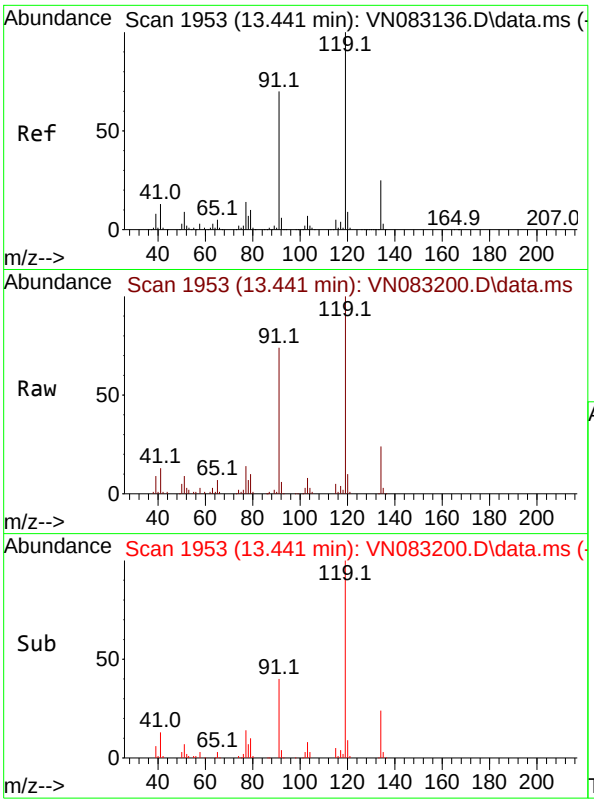


#82
4-Chlorotoluene
Concen: 18.693 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 91 Resp: 133942

Ion	Ratio	Lower	Upper
91	100		
126	30.8	16.2	48.6

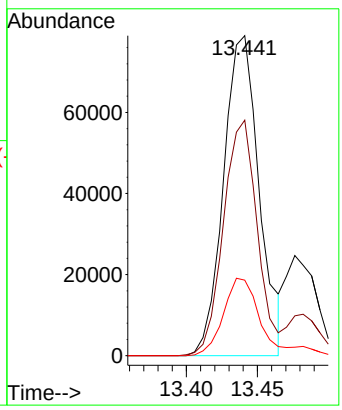




#83
tert-Butylbenzene
Concen: 19.032 ug/l
RT: 13.441 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion:119 Resp: 13807

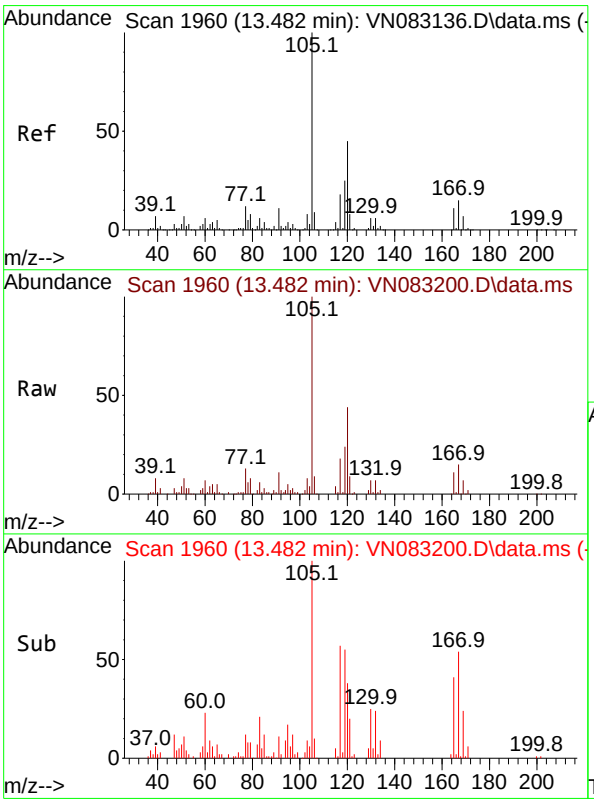
Ion	Ratio	Lower	Upper
119	100		
91	69.9	35.0	105.1
134	25.9	13.3	39.8



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

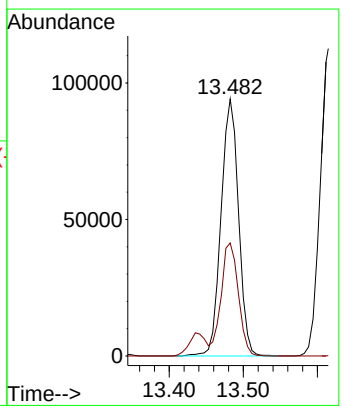
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

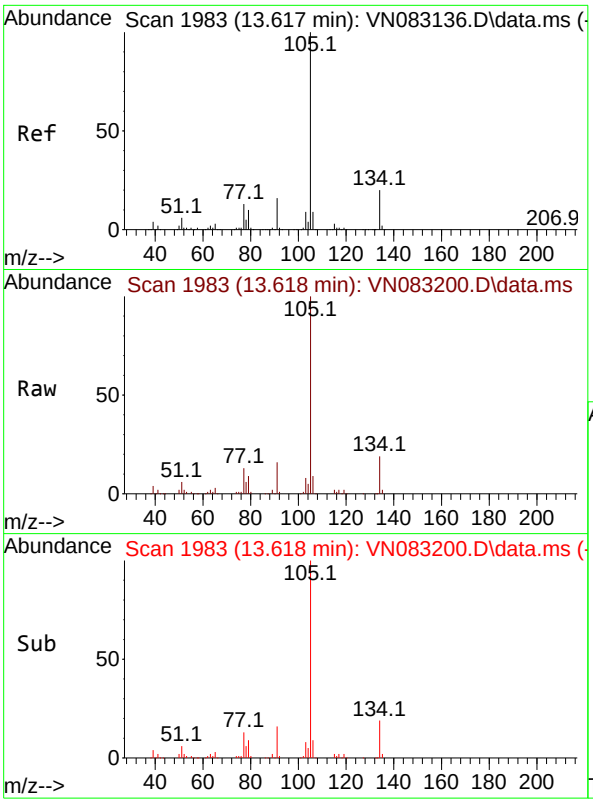


#84
1,2,4-Trimethylbenzene
Concen: 18.679 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion:105 Resp: 154210

Ion	Ratio	Lower	Upper
105	100		
120	43.6	21.9	65.8





#85
sec-Butylbenzene
Concen: 18.885 ug/l
RT: 13.618 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

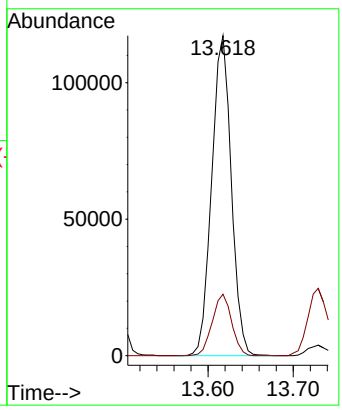
Tgt Ion:105 Resp: 18694

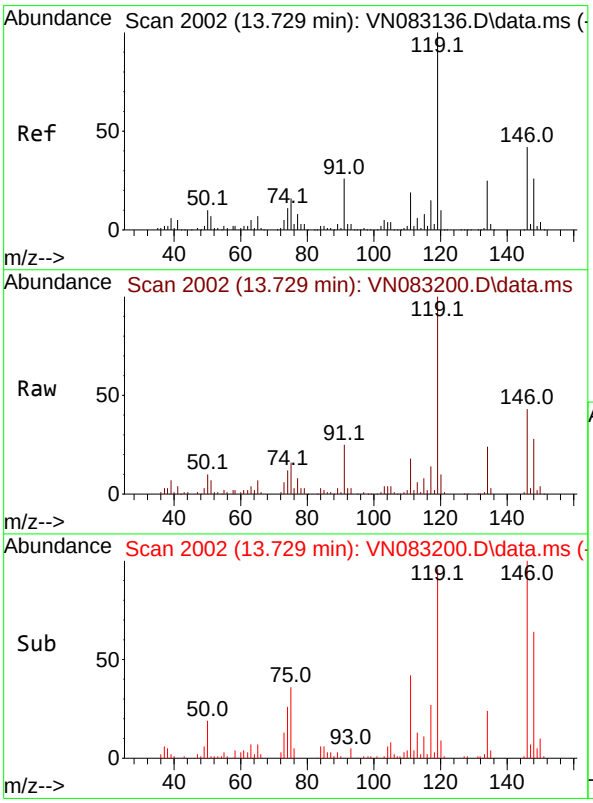
Ion	Ratio	Lower	Upper
105	100		
134	19.0	9.8	29.3

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

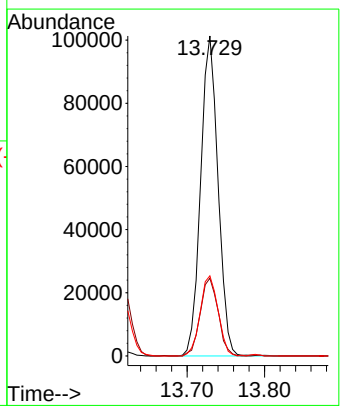


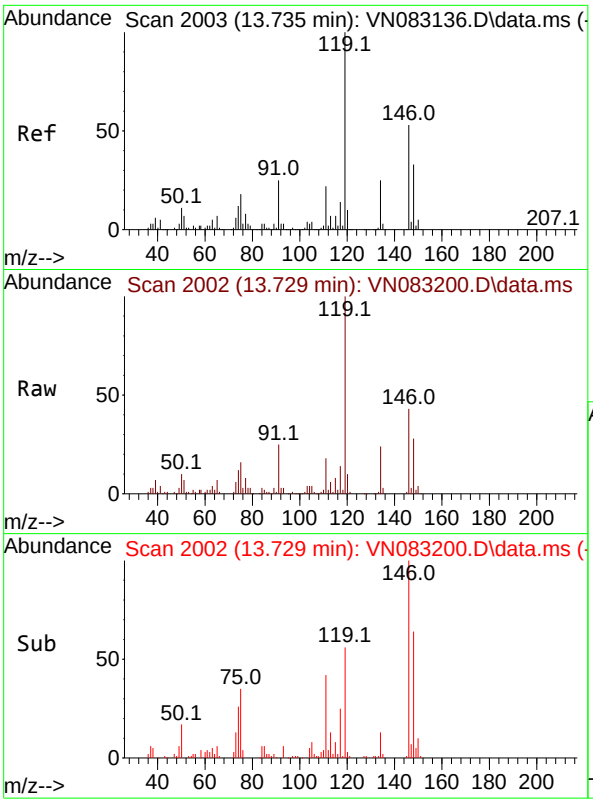


#86
p-Isopropyltoluene
Concen: 19.294 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion:119 Resp: 157702

Ion	Ratio	Lower	Upper
119	100		
134	25.0	13.0	39.0
91	25.8	12.3	36.9

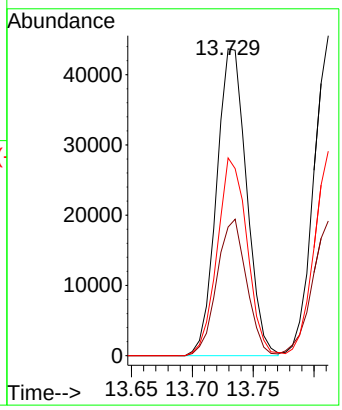




#87
1,3-Dichlorobenzene
Concen: 18.328 ug/l
RT: 13.729 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion:146 Resp: 7496

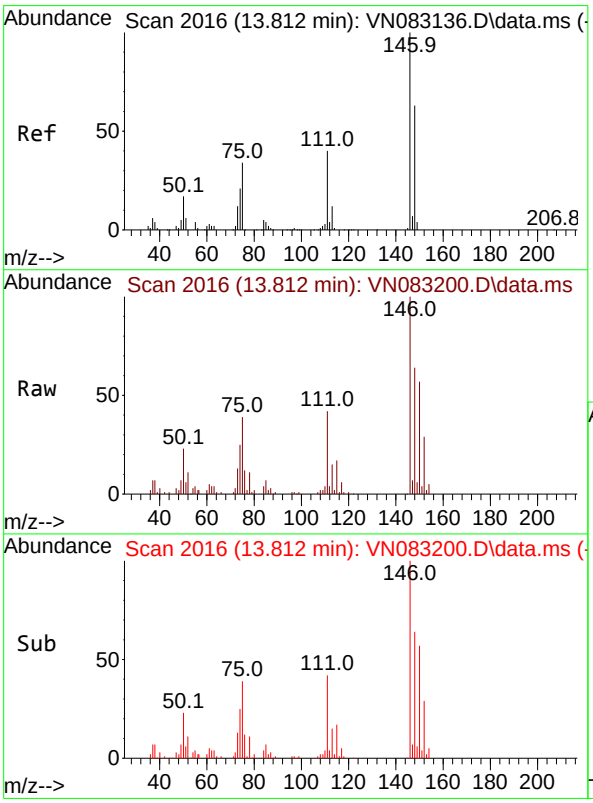
Ion	Ratio	Lower	Upper
146	100		
111	44.0	20.6	61.9
148	64.3	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

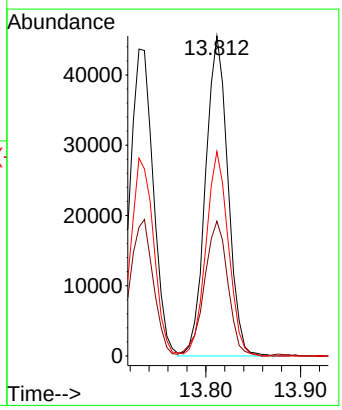
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

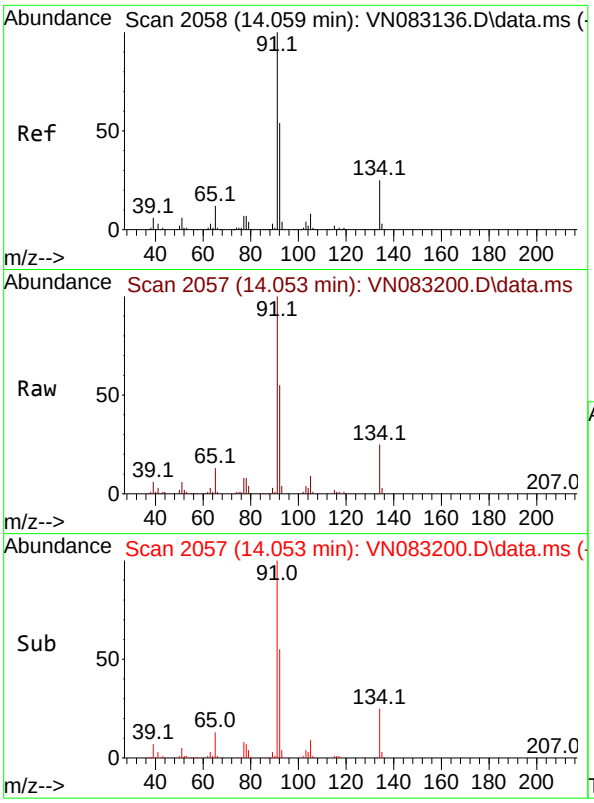


#88
1,4-Dichlorobenzene
Concen: 18.166 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion:146 Resp: 74905

Ion	Ratio	Lower	Upper
146	100		
111	44.1	20.1	60.3
148	63.7	32.2	96.6

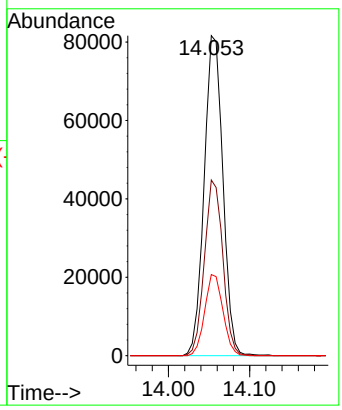




#89
n-Butylbenzene
Concen: 18.483 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 91 Resp: 13090

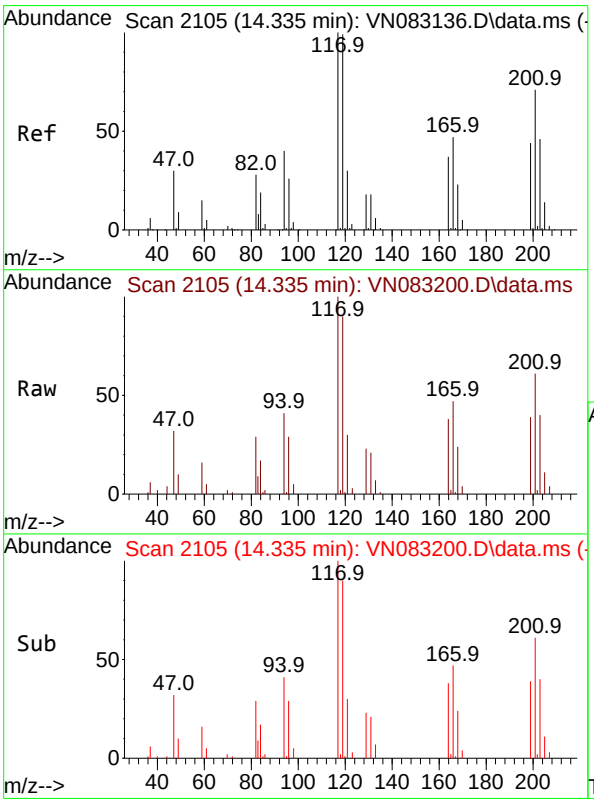
Ion	Ratio	Lower	Upper
91	100		
92	53.8	26.1	78.3
134	24.7	12.1	36.3



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

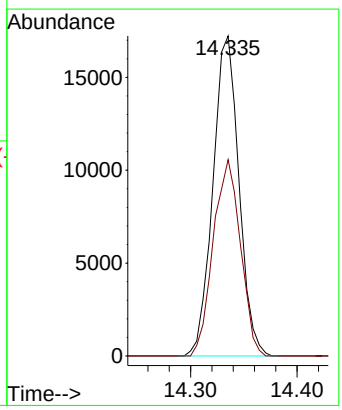
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

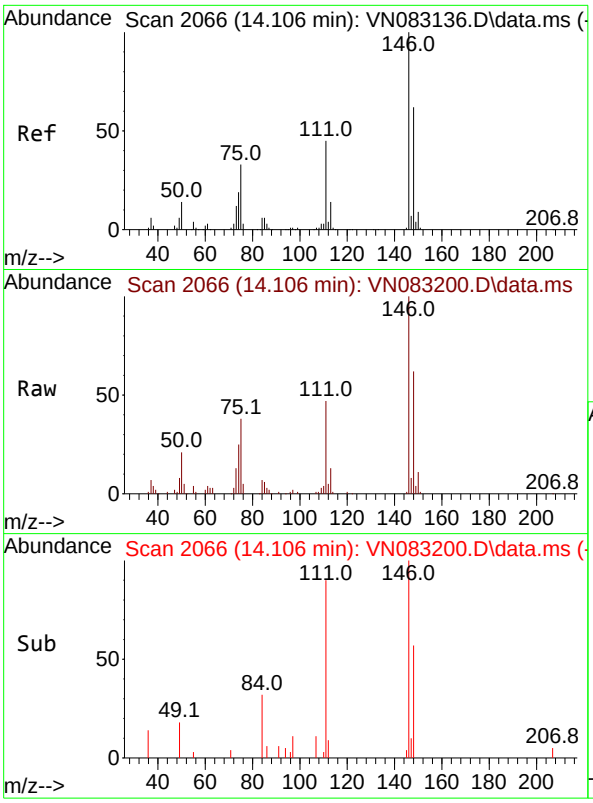


#90
Hexachloroethane
Concen: 18.466 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion:117 Resp: 29160

Ion	Ratio	Lower	Upper
117	100		
201	64.2	35.8	107.3

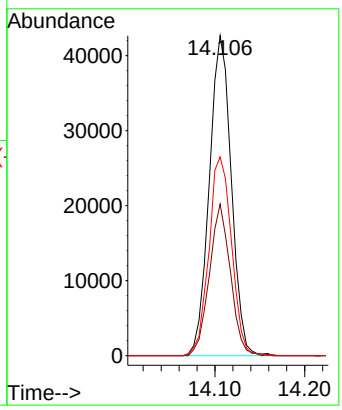




#91
1,2-Dichlorobenzene
Concen: 18.339 ug/l
RT: 14.106 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion:146 Resp: 7258

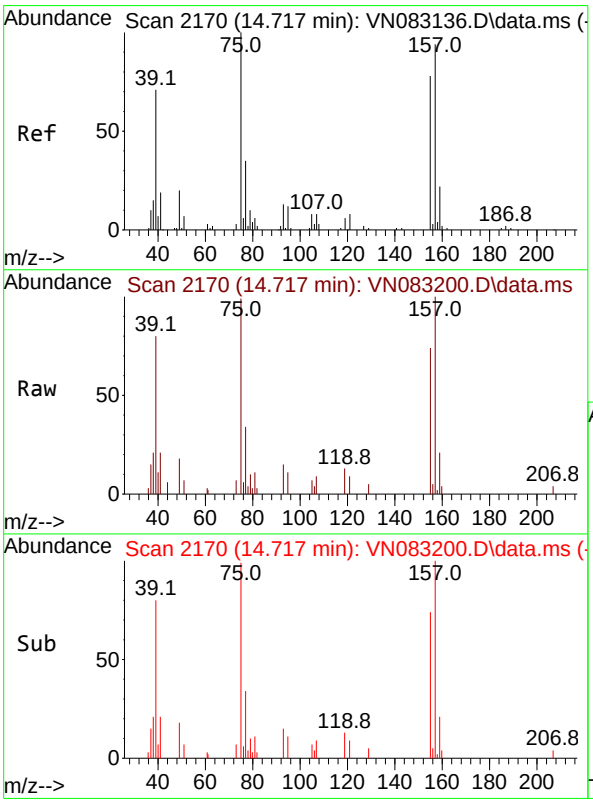
Ion	Ratio	Lower	Upper
146	100		
111	45.3	21.4	64.2
148	64.1	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

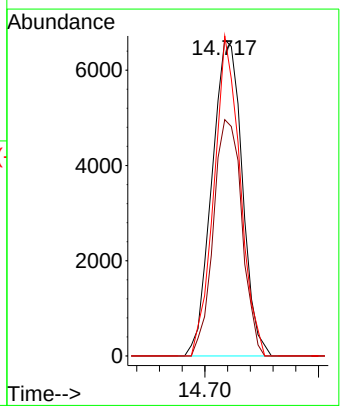
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

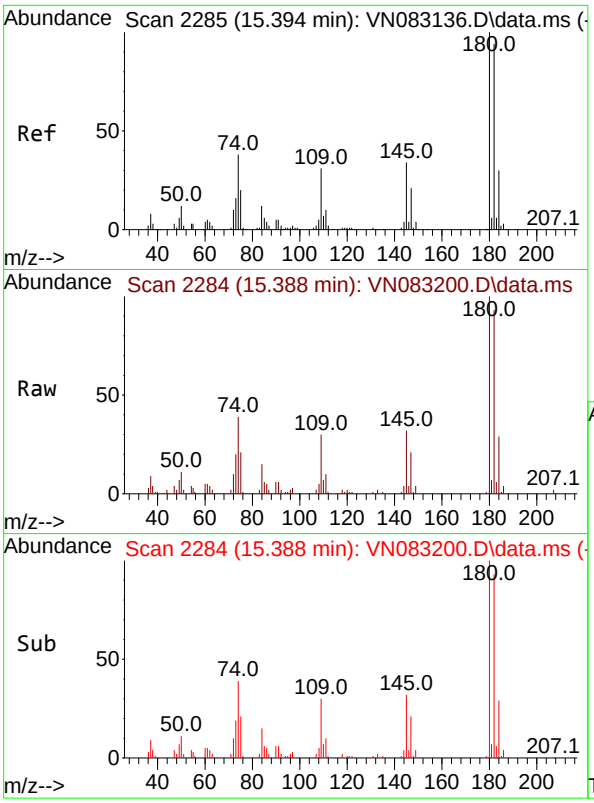


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.300 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion: 75 Resp: 12290

Ion	Ratio	Lower	Upper
75	100		
155	70.5	36.6	109.8
157	87.2	46.9	140.6

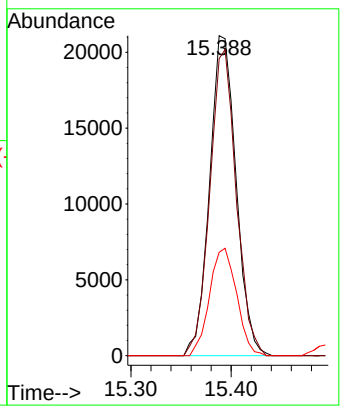




#93
1,2,4-Trichlorobenzene
Concen: 17.496 ug/l
RT: 15.388 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion:180 Resp: 3879

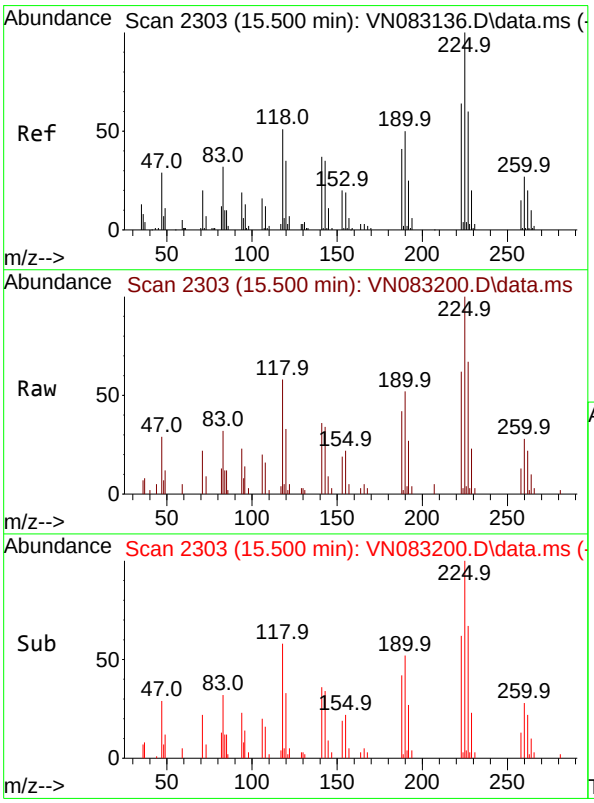
Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.3	141.8
145	34.3	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

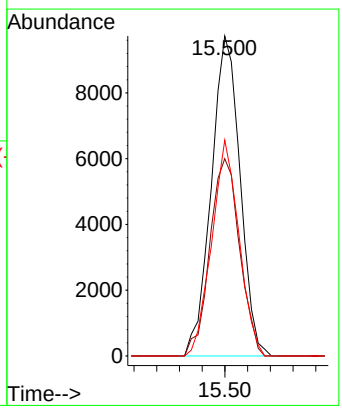
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

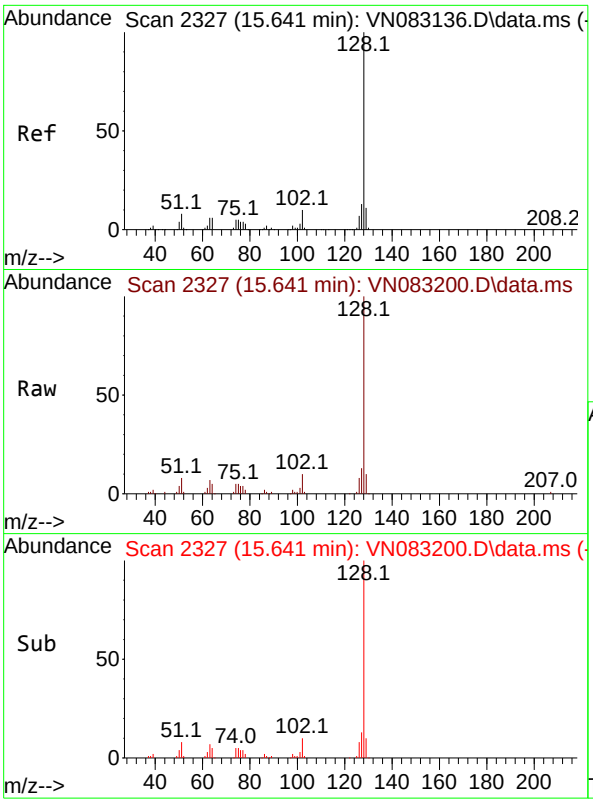


#94
Hexachlorobutadiene
Concen: 17.337 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion:225 Resp: 17096

Ion	Ratio	Lower	Upper
225	100		
223	63.7	31.9	95.7
227	63.9	32.5	97.5

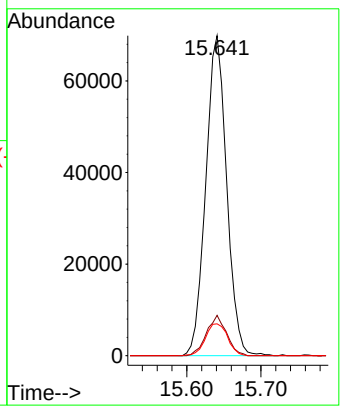




#95
Naphthalene
Concen: 17.404 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion:128 Resp: 13669

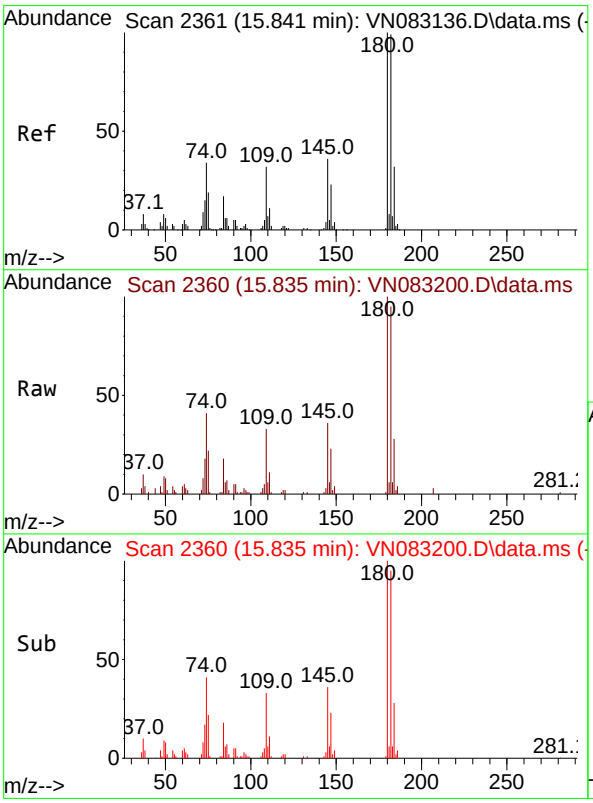
Ion	Ratio	Lower	Upper
128	100		
127	12.1	10.6	16.0
129	10.6	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBS01

Manual Integrations
APPROVED

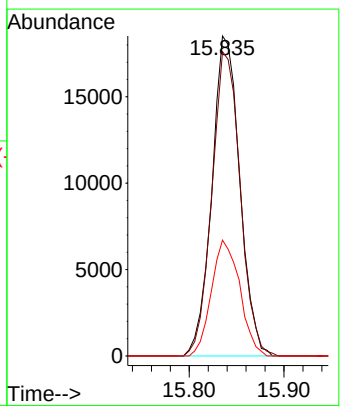
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024



#96
1,2,3-Trichlorobenzene
Concen: 17.257 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.006 min
Lab File: VN083200.D
Acq: 10 Aug 2024 11:58

Tgt Ion:180 Resp: 37862

Ion	Ratio	Lower	Upper
180	100		
182	96.5	48.9	146.8
145	36.8	16.8	50.4



Raw Data: **VX042965.D**

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	VX0808WBS02	SDG No.:	P3457
Lab Sample ID:	VX0808WBS02	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX042965.D	1		08/09/24 02:34	VX080824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	20.3		0.21	1.00	ug/L
74-87-3	Chloromethane	20.0		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	20.5		0.34	1.00	ug/L
74-83-9	Bromomethane	20.7		1.40	5.00	ug/L
75-00-3	Chloroethane	19.6		0.56	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.4		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	20.1		0.26	1.00	ug/L
67-64-1	Acetone	98.6		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	18.4		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.2		0.16	1.00	ug/L
75-09-2	Methylene Chloride	20.4		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	20.3		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.9		0.23	1.00	ug/L
110-82-7	Cyclohexane	20.8		1.60	5.00	ug/L
78-93-3	2-Butanone	100		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.5		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.9		0.25	1.00	ug/L
67-66-3	Chloroform	20.8		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.4		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	19.2		0.19	1.00	ug/L
71-43-2	Benzene	20.0		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.1		0.24	1.00	ug/L
79-01-6	Trichloroethene	19.3		0.32	1.00	ug/L
75-27-4	Bromodichloromethane	19.6		0.24	1.00	ug/L
108-88-3	Toluene	20.0		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.0		0.21	1.00	ug/L
124-48-1	Dibromochloromethane	19.4		0.18	1.00	ug/L
127-18-4	Tetrachloroethene	20.2		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.6		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	19.9		0.16	1.00	ug/L

Raw Data: **VX042965.D**

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	VX0808WBS02	SDG No.:	P3457
Lab Sample ID:	VX0808WBS02	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX042965.D	1		08/09/24 02:34	VX080824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
179601-23-1	m/p-Xylenes	38.7		0.31	2.00	ug/L
1330-20-7	Total Xylenes	58.8		0.45	3.00	ug/L
95-47-6	o-Xylene	20.1		0.14	1.00	ug/L
98-82-8	Isopropylbenzene	20.2		0.13	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.0		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.3		0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.4		70 (74) - 130 (125)	115%	SPK: 50
1868-53-7	Dibromofluoromethane	53.7		70 (75) - 130 (124)	107%	SPK: 50
2037-26-5	Toluene-d8	54.6		70 (86) - 130 (113)	109%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.5		70 (77) - 130 (121)	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	216000	5.55			
540-36-3	1,4-Difluorobenzene	373000	6.763			
3114-55-4	Chlorobenzene-d5	329000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	154000	12.024			

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_X\Data\VX080824\
Data File : VX042965.D
Acq On : 09 Aug 2024 02:34
Operator : JC/MD
Sample : VX0808WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Aug 09 05:48:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	216431	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	372967	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	328816	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	153912	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	170559	57.405	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 114.800%			
35) Dibromofluoromethane	5.385	113	130836	53.651	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 107.300%			
50) Toluene-d8	8.647	98	472468	54.575	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 109.140%			
62) 4-Bromofluorobenzene	11.079	95	166330	53.466	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 106.940%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	47425	20.329	ug/l	98
3) Chloromethane	1.301	50	50790	19.982	ug/l	96
4) Vinyl Chloride	1.374	62	49510	20.529	ug/l	98
5) Bromomethane	1.599	94	30247	20.723	ug/l	97
6) Chloroethane	1.666	64	26993	19.647	ug/l	97
7) Trichlorofluoromethane	1.868	101	72128	19.231	ug/l	94
8) Diethyl Ether	2.136	74	28903	20.951	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.319	101	48177	20.431	ug/l	97
10) Methyl Iodide	2.447	142	53095	21.775	ug/l	92
11) Tert butyl alcohol	2.995	59	61597	104.228	ug/l #	93
12) 1,1-Dichloroethene	2.307	96	48019	20.129	ug/l	89
13) Acrolein	2.239	56	64324	110.422	ug/l	98
14) Allyl chloride	2.660	41	77426	21.480	ug/l	94
15) Acrylonitrile	3.075	53	150976	100.091	ug/l	98
16) Acetone	2.392	43	127058	98.593	ug/l #	89
17) Carbon Disulfide	2.502	76	106569	18.358	ug/l	99
18) Methyl Acetate	2.709	43	83969	20.547	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	162467	20.234	ug/l	97
20) Methylene Chloride	2.788	84	56178	20.395	ug/l	95
21) trans-1,2-Dichloroethene	3.087	96	48664	20.276	ug/l	96
22) Diisopropyl ether	3.770	45	171164	21.615	ug/l	95
23) Vinyl Acetate	3.721	43	957059	106.491	ug/l	100
24) 1,1-Dichloroethane	3.611	63	95262	20.917	ug/l	99
25) 2-Butanone	4.574	43	205223	101.403	ug/l	98
26) 2,2-Dichloropropane	4.471	77	49005	17.503	ug/l	91
27) cis-1,2-Dichloroethene	4.483	96	59509	20.908	ug/l	88
28) Bromochloromethane	4.904	49	33137	18.963	ug/l	86
29) Tetrahydrofuran	5.019	42	134535	98.375	ug/l	96
30) Chloroform	5.093	83	99252	20.818	ug/l	100
31) Cyclohexane	5.471	56	77383	20.815	ug/l	95
32) 1,1,1-Trichloroethane	5.379	97	85802	20.443	ug/l	98
36) 1,1-Dichloropropene	5.690	75	62561	18.922	ug/l	98
37) Ethyl Acetate	4.727	43	79033	19.105	ug/l	98
38) Carbon Tetrachloride	5.672	117	69061	18.504	ug/l	97
39) Methylcyclohexane	7.379	83	75440	19.194	ug/l	97
40) Benzene	6.038	78	205151	19.993	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080824\
Data File : VX042965.D
Acq On : 09 Aug 2024 02:34
Operator : JC/MD
Sample : VX0808WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Aug 09 05:48:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.928	41	42975	20.170 ug/l		95
42) 1,2-Dichloroethane	6.086	62	75014	20.098 ug/l		98
43) Isopropyl Acetate	6.342	43	120364	19.674 ug/l		98
44) Trichloroethene	7.129	130	49654	19.258 ug/l		91
45) 1,2-Dichloropropane	7.434	63	50536	19.414 ug/l		97
46) Dibromomethane	7.580	93	38533	20.155 ug/l		95
47) Bromodichloromethane	7.824	83	69774	19.647 ug/l		98
48) Methyl methacrylate	7.696	41	58292	19.871 ug/l		95
49) 1,4-Dioxane	7.671	88	26907	413.183 ug/l	#	91
51) 4-Methyl-2-Pentanone	8.574	43	414062	101.040 ug/l		99
52) Toluene	8.720	92	124470	19.997 ug/l		95
53) t-1,3-Dichloropropene	8.982	75	62601	19.068 ug/l		98
54) cis-1,3-Dichloropropene	8.366	75	68677	18.942 ug/l		94
55) 1,1,2-Trichloroethane	9.153	97	50667	20.024 ug/l		96
56) Ethyl methacrylate	9.116	69	78552	19.292 ug/l		96
57) 1,3-Dichloropropane	9.311	76	84455	20.374 ug/l		100
58) 2-Chloroethyl Vinyl ether	8.244	63	203183	105.874 ug/l		98
59) 2-Hexanone	9.433	43	309797	97.561 ug/l		99
60) Dibromochloromethane	9.519	129	53986	19.422 ug/l		99
61) 1,2-Dibromoethane	9.610	107	52292	19.560 ug/l		98
64) Tetrachloroethene	9.275	164	46231	20.221 ug/l		98
65) Chlorobenzene	10.080	112	136841	19.611 ug/l		96
66) 1,1,1,2-Tetrachloroethane	10.159	131	47638	19.800 ug/l		99
67) Ethyl Benzene	10.195	91	233409	19.887 ug/l		99
68) m/p-Xylenes	10.299	106	173265	38.669 ug/l		96
69) o-Xylene	10.640	106	90386	20.137 ug/l		96
70) Styrene	10.653	104	146747	20.331 ug/l		98
71) Bromoform	10.799	173	36084	18.674 ug/l	#	100
73) Isopropylbenzene	10.964	105	224785	20.201 ug/l		97
74) N-amyl acetate	10.842	43	102488	20.469 ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	80343	19.709 ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	63663m	18.392 ug/l		
77) Bromobenzene	11.201	156	55805	19.715 ug/l		92
78) n-propylbenzene	11.305	91	246537	19.946 ug/l		99
79) 2-Chlorotoluene	11.366	91	157094	19.829 ug/l		97
80) 1,3,5-Trimethylbenzene	11.451	105	189183	20.532 ug/l		98
81) trans-1,4-Dichloro-2-b...	11.018	75	18708	17.573 ug/l		98
82) 4-Chlorotoluene	11.457	91	178823	20.082 ug/l		99
83) tert-Butylbenzene	11.713	119	187793	19.833 ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	187803	20.246 ug/l		97
85) sec-Butylbenzene	11.890	105	230031	20.631 ug/l		99
86) p-Isopropyltoluene	12.006	119	186636	20.147 ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	99156	19.356 ug/l		98
88) 1,4-Dichlorobenzene	12.043	146	99856	19.017 ug/l		100
89) n-Butylbenzene	12.335	91	152995	19.144 ug/l		96
90) Hexachloroethane	12.536	117	32790	19.351 ug/l		91
91) 1,2-Dichlorobenzene	12.335	146	104153	20.303 ug/l		97
92) 1,2-Dibromo-3-Chloropr...	12.945	75	16957	18.931 ug/l		84
93) 1,2,4-Trichlorobenzene	13.591	180	56950	18.200 ug/l		98
94) Hexachlorobutadiene	13.725	225	24952	18.802 ug/l		99
95) Naphthalene	13.774	128	206965	19.114 ug/l		100
96) 1,2,3-Trichlorobenzene	13.963	180	60636	19.251 ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080824\
Data File : VX042965.D
Acq On : 09 Aug 2024 02:34
Operator : JC/MD
Sample : VX0808WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Aug 09 05:48:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations APPROVED

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

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

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

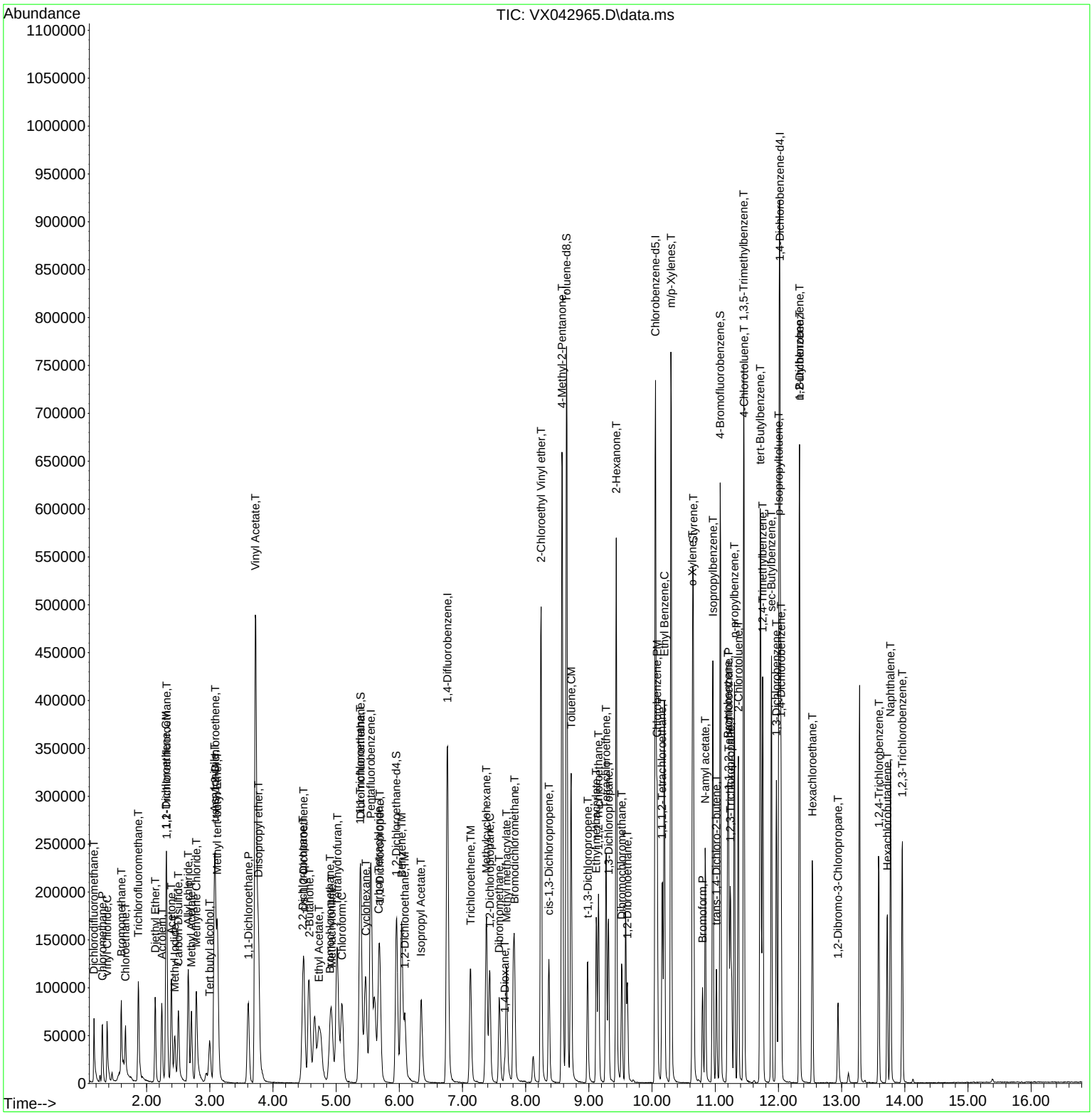
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080824\
Data File : VX042965.D
Acq On : 09 Aug 2024 02:34
Operator : JC/MD
Sample : VX0808WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 34 Sample Multiplier: 1

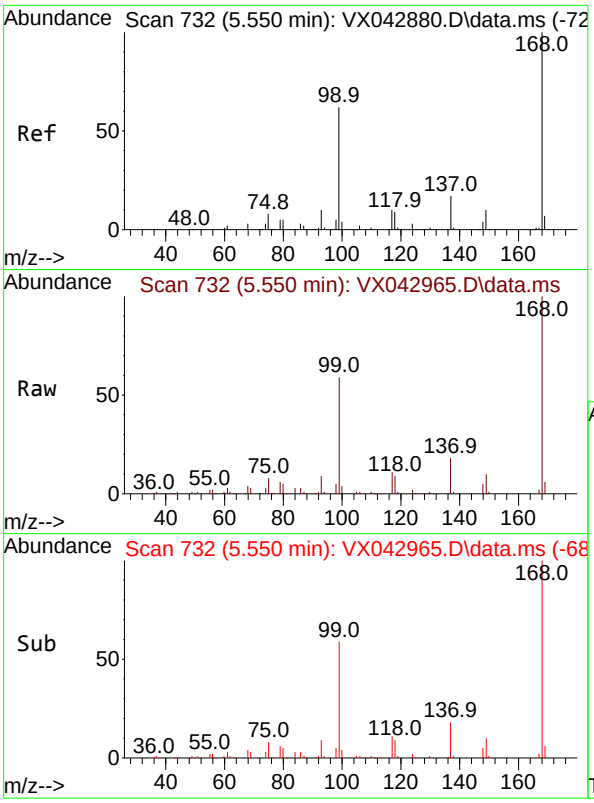
Quant Time: Aug 09 05:48:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations APPROVED

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

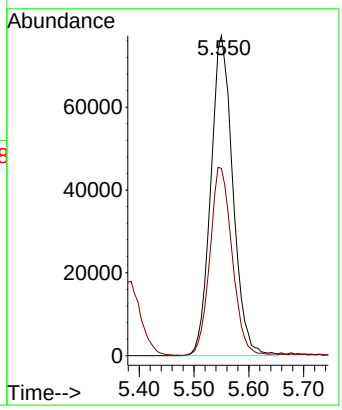




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion:168 Resp: 21643

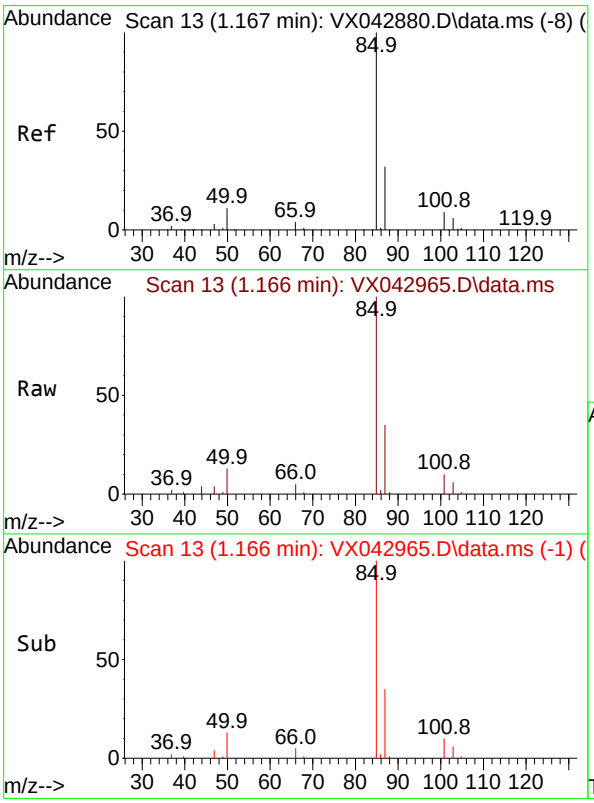
Ion	Ratio	Lower	Upper
168	100		
99	58.4	56.6	85.0



Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

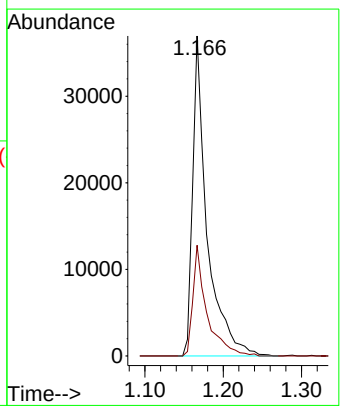
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

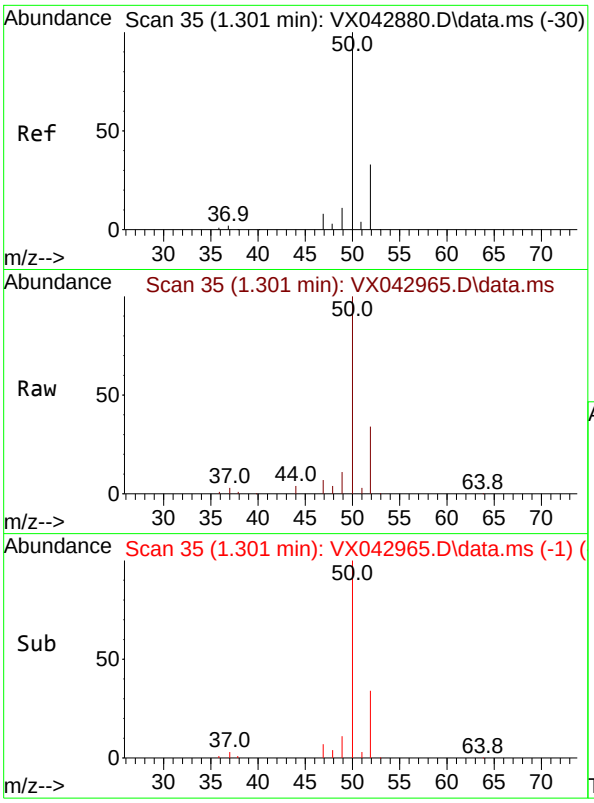


#2
Dichlorodifluoromethane
Concen: 20.329 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 85 Resp: 47425

Ion	Ratio	Lower	Upper
85	100		
87	34.6	16.7	50.1





#3
Chloromethane
Concen: 19.982 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

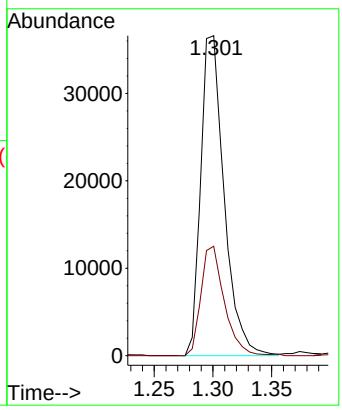
Tgt Ion: 50 Resp: 5079

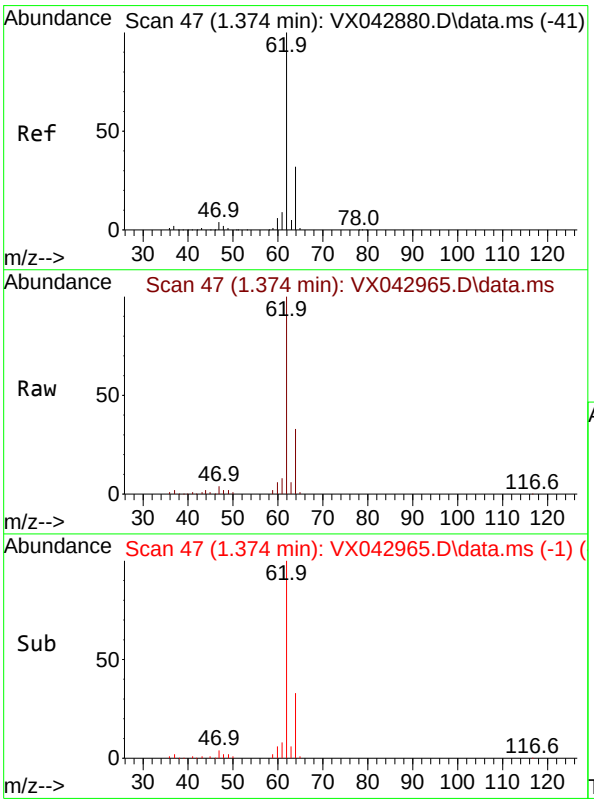
Ion	Ratio	Lower	Upper
50	100		
52	34.2	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

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

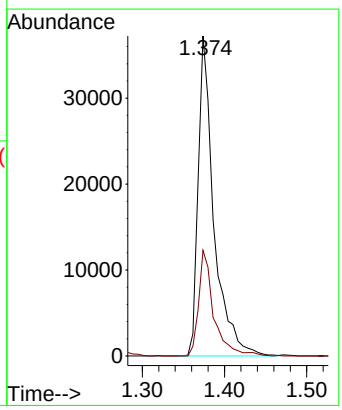


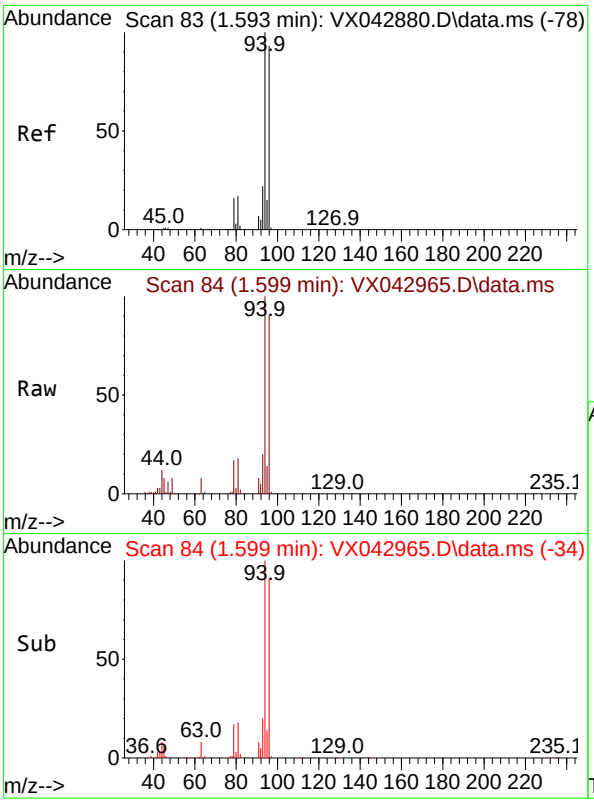


#4
Vinyl Chloride
Concen: 20.529 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 62 Resp: 49510

Ion	Ratio	Lower	Upper
62	100		
64	33.0	25.4	38.0





#5
Bromomethane
Concen: 20.723 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.006 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

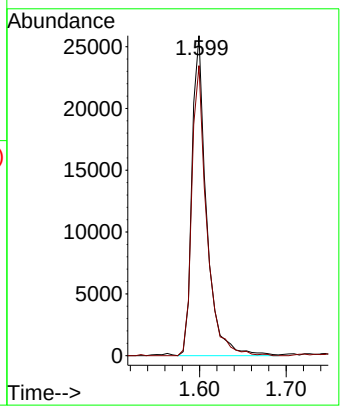
Tgt Ion: 94 Resp: 3024

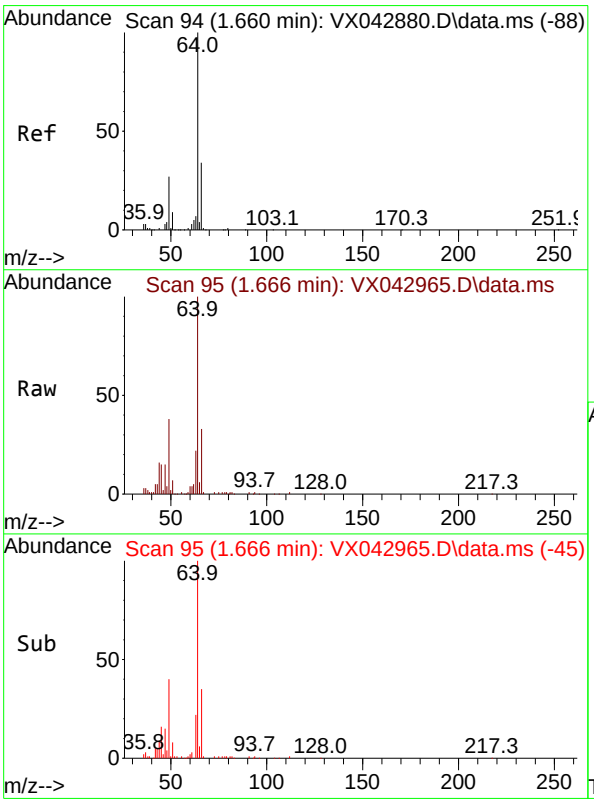
Ion	Ratio	Lower	Upper
94	100		
96	90.6	74.6	111.8

Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

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

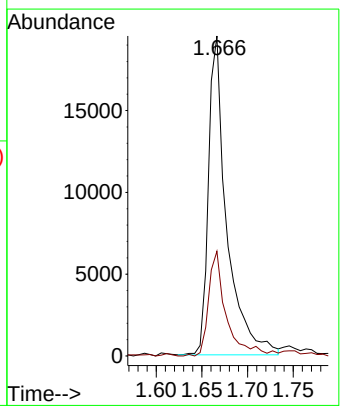


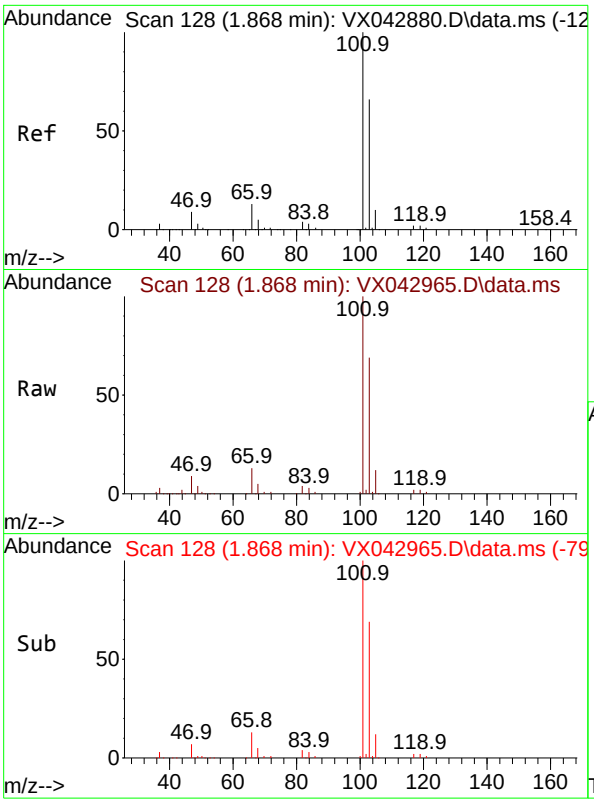


#6
Chloroethane
Concen: 19.647 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.006 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 64 Resp: 26993

Ion	Ratio	Lower	Upper
64	100		
66	32.8	25.1	37.7

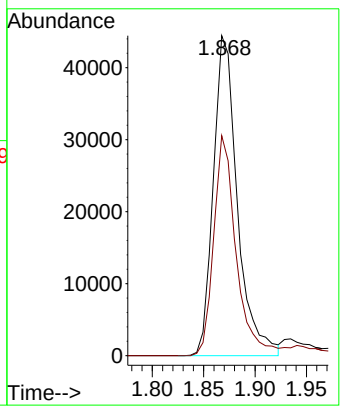




#7
Trichlorofluoromethane
Concen: 19.231 ug/l
RT: 1.868 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion:101 Resp: 7212

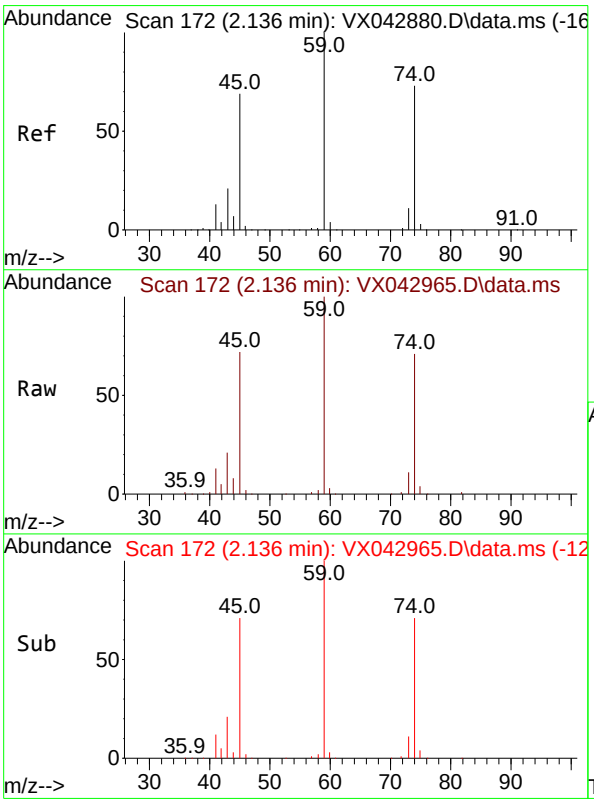
Ion	Ratio	Lower	Upper
101	100		
103	68.8	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

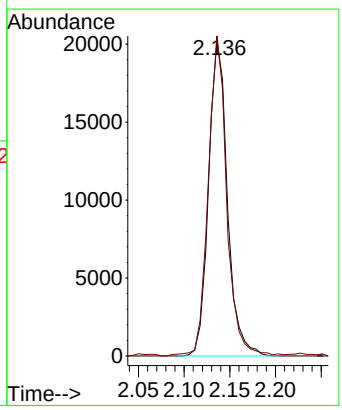
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

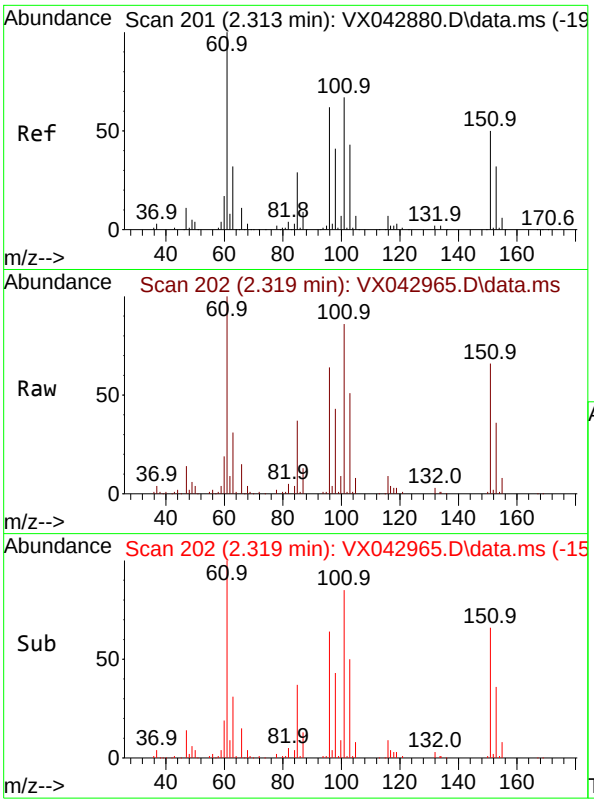


#8
Diethyl Ether
Concen: 20.951 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 74 Resp: 28903

Ion	Ratio	Lower	Upper
74	100		
45	99.7	53.3	159.8

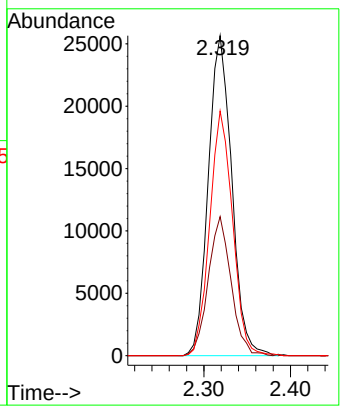




#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.431 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion:101 Resp: 4817

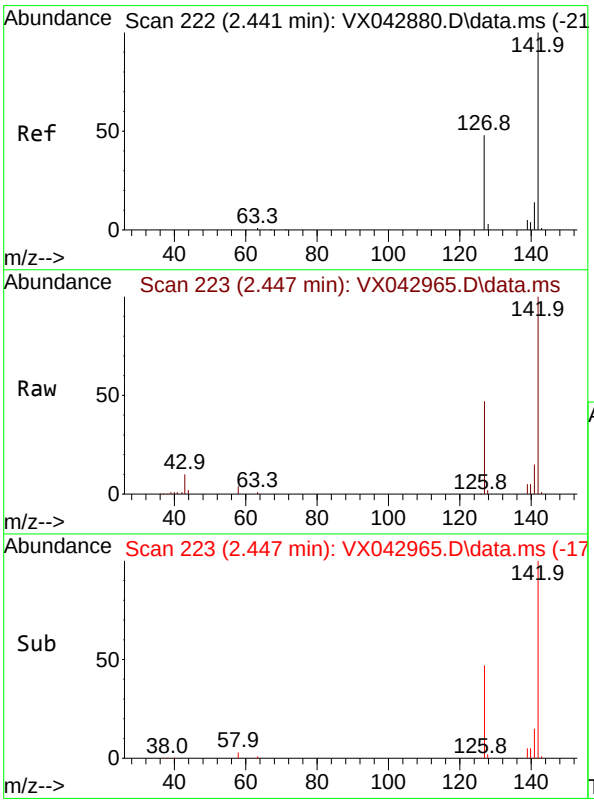
Ion	Ratio	Lower	Upper
101	100		
85	42.3	37.0	55.6
151	74.8	58.6	87.8



Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

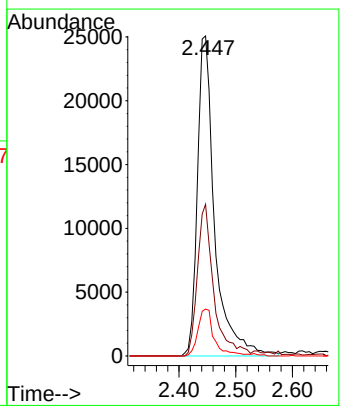
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

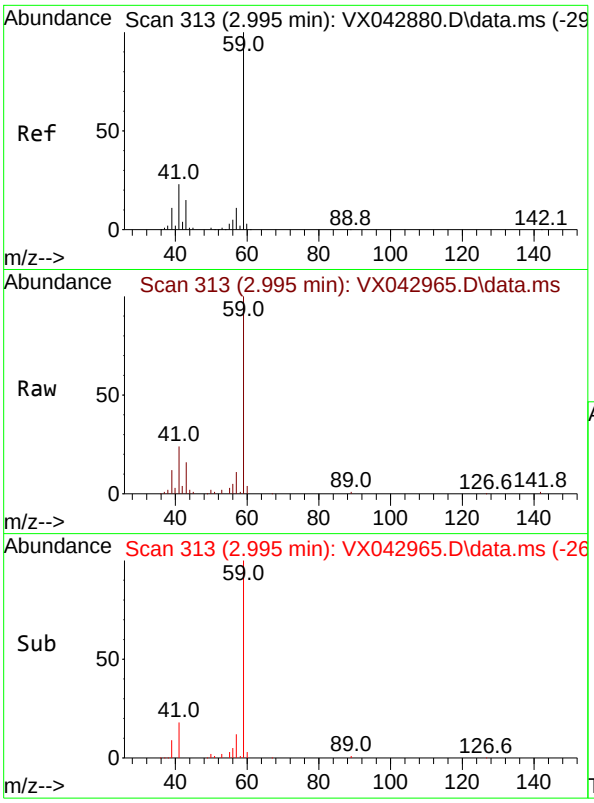


#10
Methyl Iodide
Concen: 21.775 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.006 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion:142 Resp: 53095

Ion	Ratio	Lower	Upper
142	100		
127	44.8	41.6	62.4
141	13.8	11.6	17.4

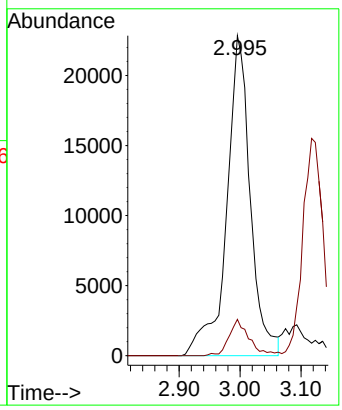




#11
Tert butyl alcohol
Concen: 104.228 ug/l
RT: 2.995 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 59 Resp: 6159

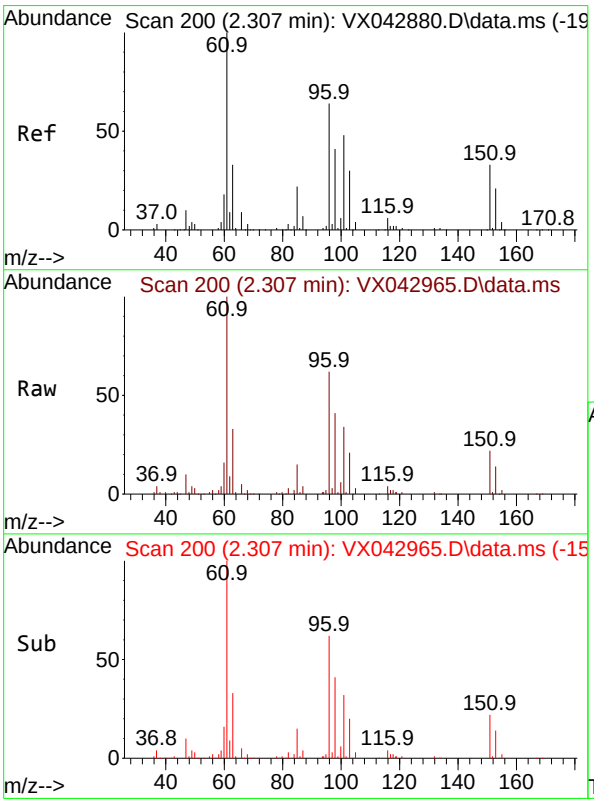
Ion	Ratio	Lower	Upper
59	100		
57	9.8	6.0	9.0



Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

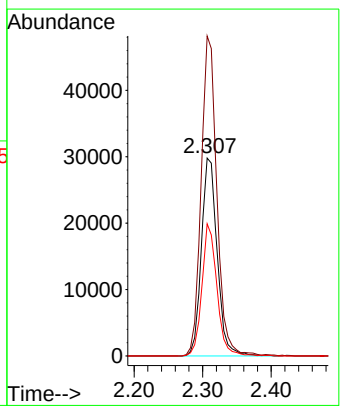
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

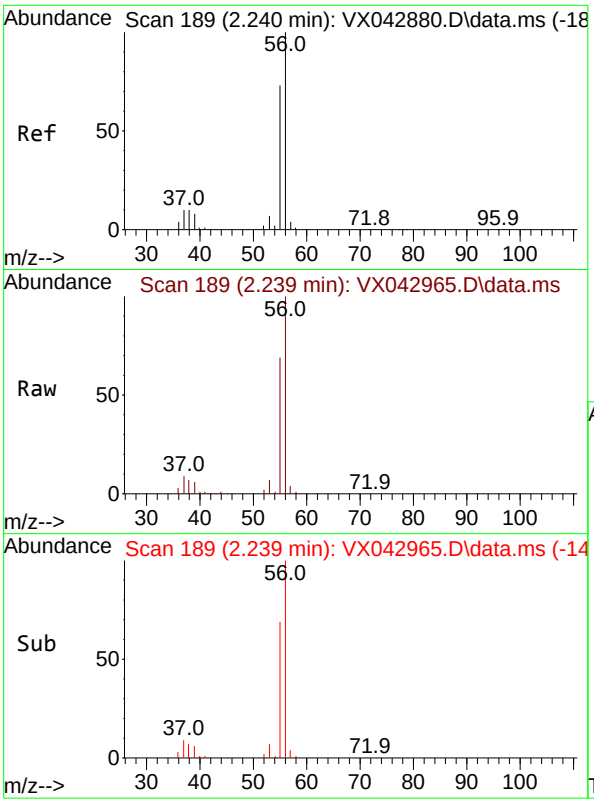


#12
1,1-Dichloroethene
Concen: 20.129 ug/l
RT: 2.307 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 96 Resp: 48019

Ion	Ratio	Lower	Upper
96	100		
61	161.7	144.6	216.8
98	66.7	50.4	75.6

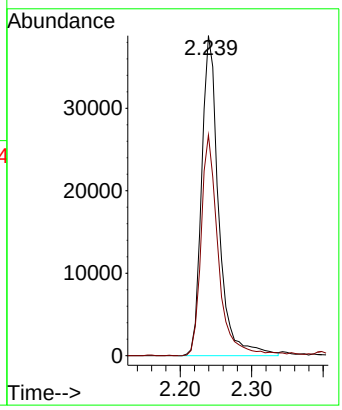




#13
Acrolein
Concen: 110.422 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 56 Resp: 6432

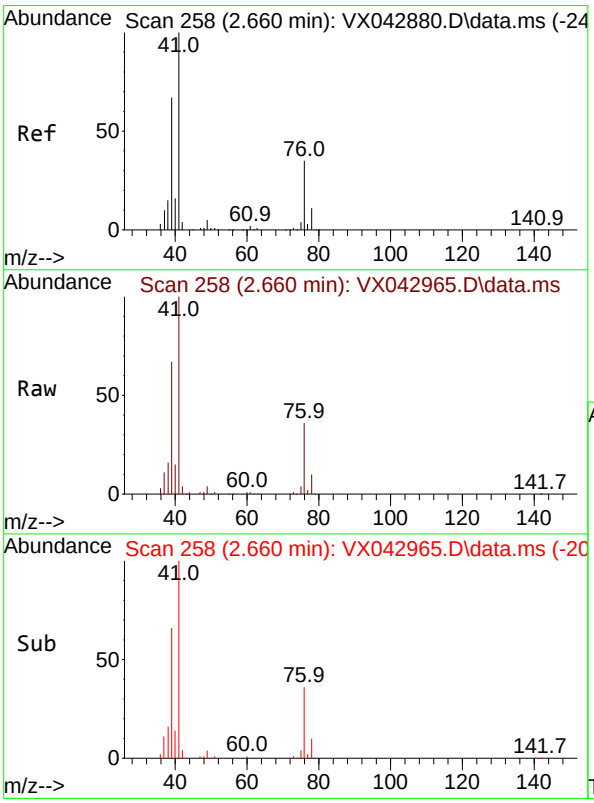
Ion	Ratio	Lower	Upper
56	100		
55	69.5	57.1	85.7



Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

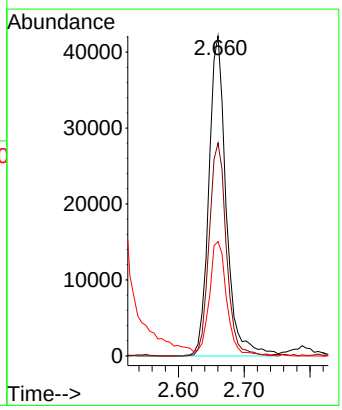
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

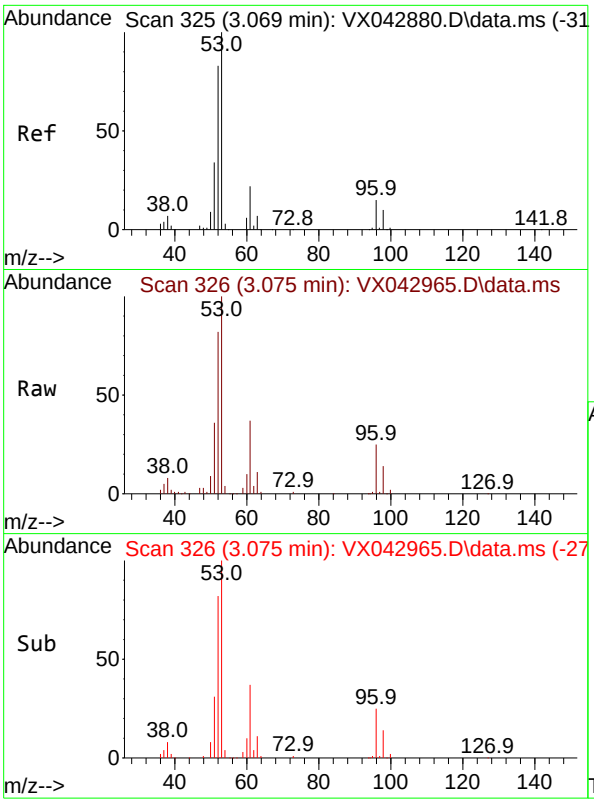


#14
Allyl chloride
Concen: 21.480 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 41 Resp: 77426

Ion	Ratio	Lower	Upper
41	100		
39	66.0	55.8	83.6
76	35.9	24.3	36.5





#15
Acrylonitrile
Concen: 100.091 ug/l
RT: 3.075 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

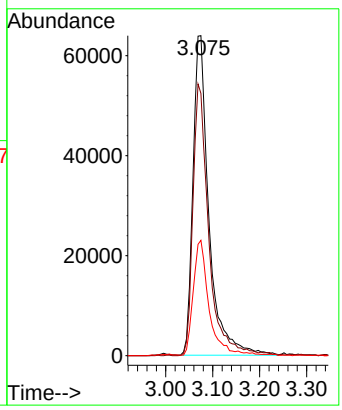
Tgt Ion: 53 Resp: 15097

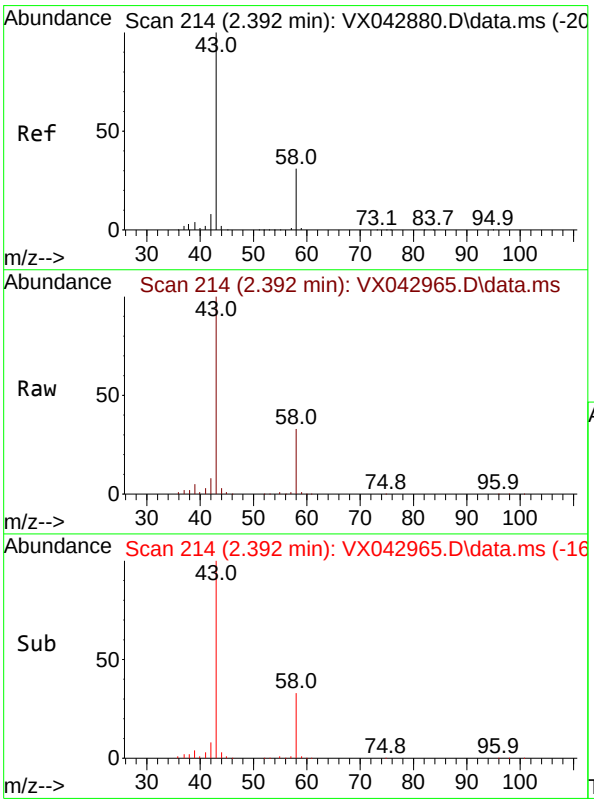
Ion	Ratio	Lower	Upper
53	100		
52	84.3	66.0	99.0
51	35.5	29.8	44.6

Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

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

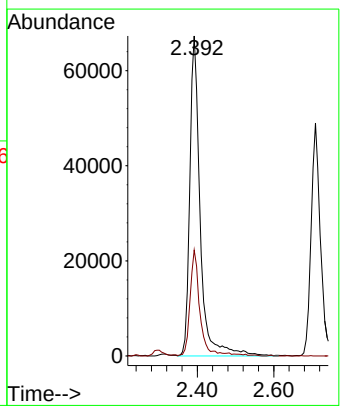


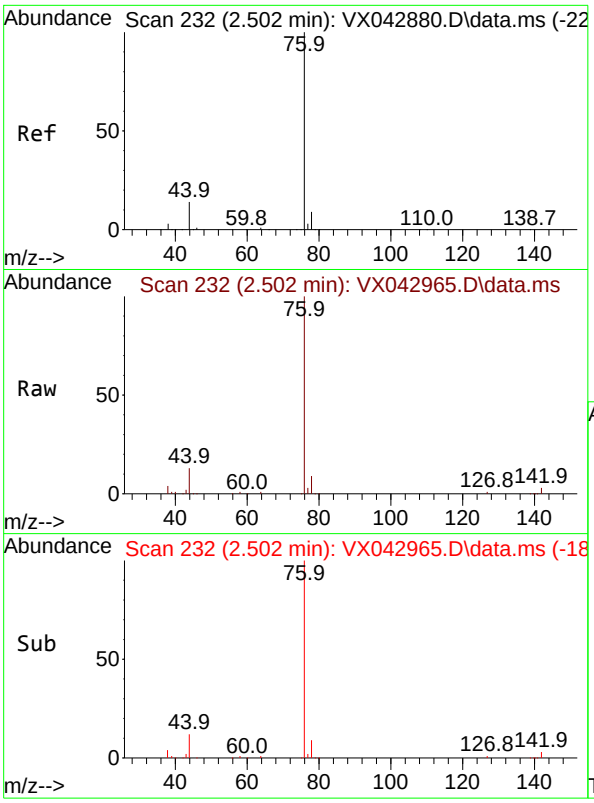


#16
Acetone
Concen: 98.593 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 43 Resp: 127058

Ion	Ratio	Lower	Upper
43	100		
58	33.1	21.9	32.9#





#17
Carbon Disulfide
Concen: 18.358 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

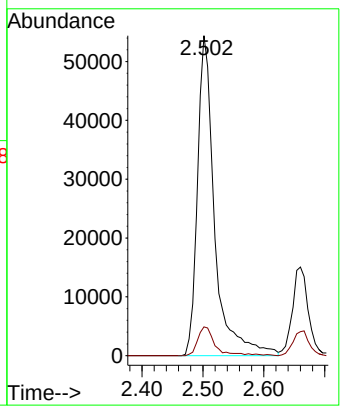
Tgt Ion: 76 Resp: 10656

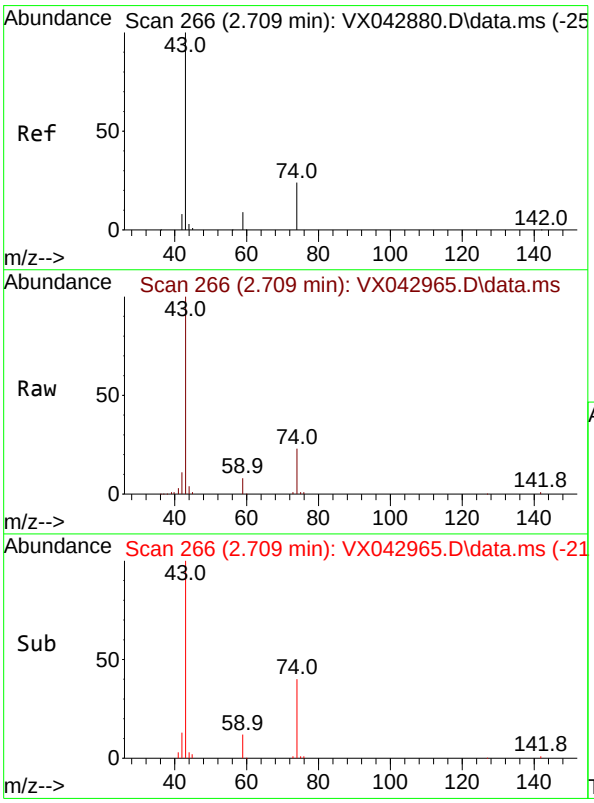
Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.0	10.6

Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

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

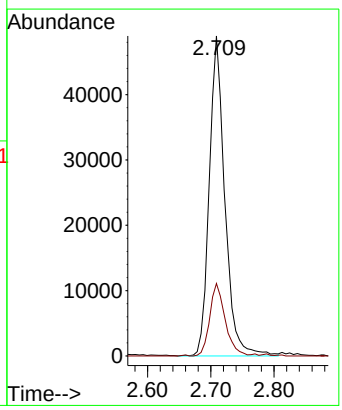


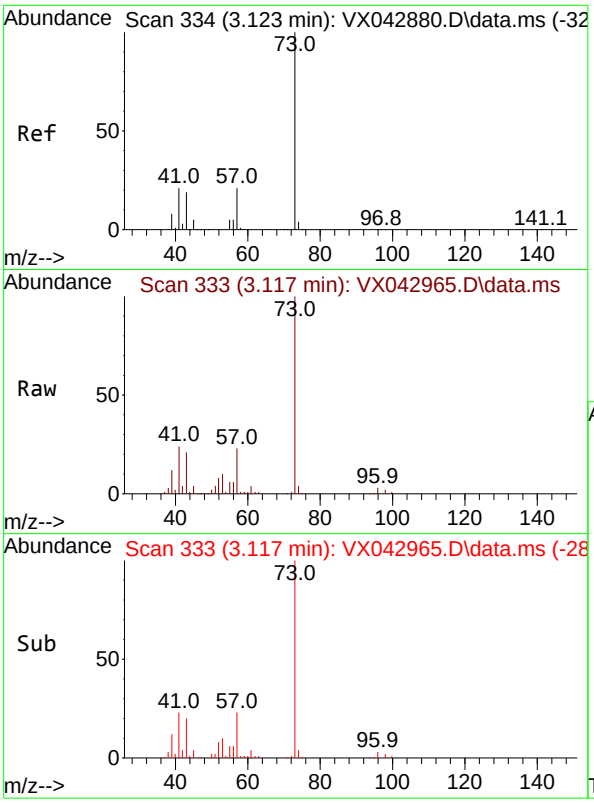


#18
Methyl Acetate
Concen: 20.547 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 43 Resp: 83969

Ion	Ratio	Lower	Upper
43	100		
74	22.4	17.8	26.8

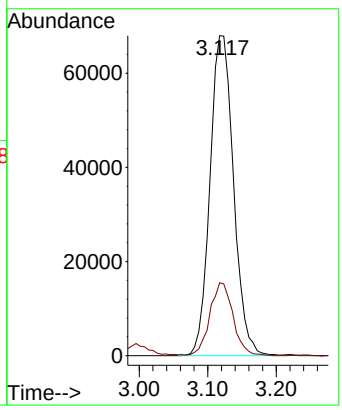




#19
Methyl tert-butyl Ether
Concen: 20.234 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 73 Resp: 16246

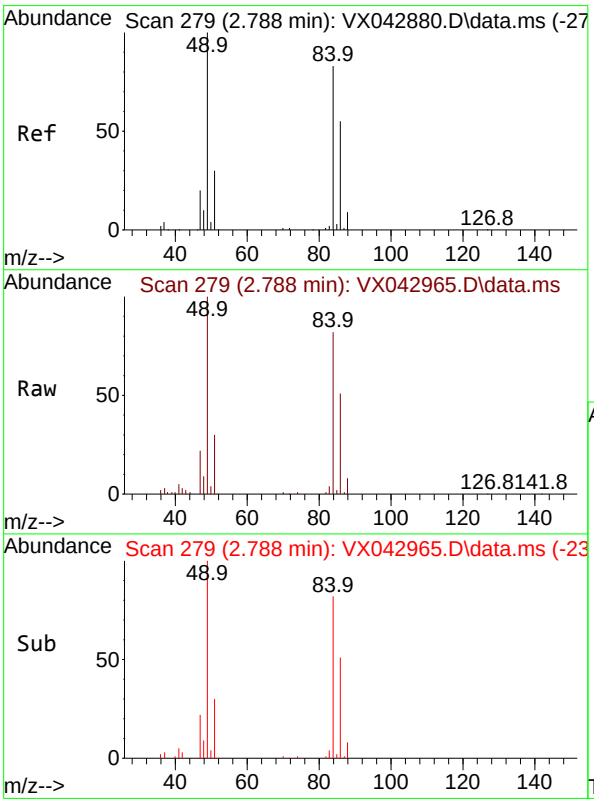
Ion	Ratio	Lower	Upper
73	100		
57	22.8	17.3	25.9



Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

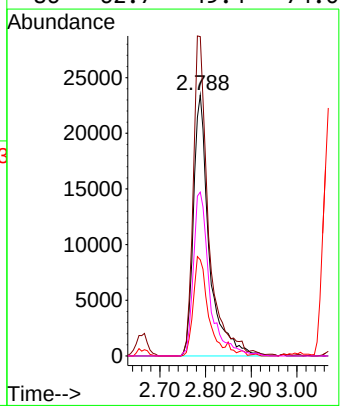
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

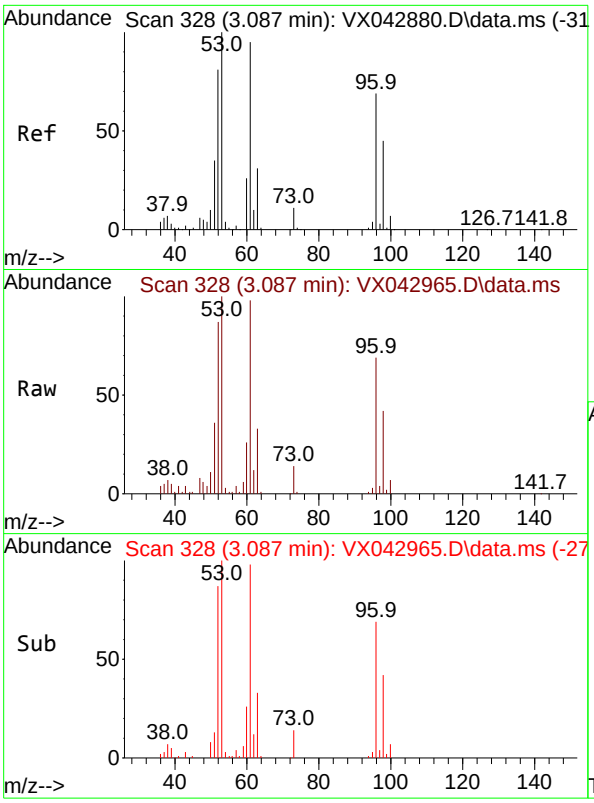


#20
Methylene Chloride
Concen: 20.395 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 84 Resp: 56178

Ion	Ratio	Lower	Upper
84	100		
49	122.3	103.6	155.4
51	36.9	33.8	50.6
86	62.7	49.4	74.0

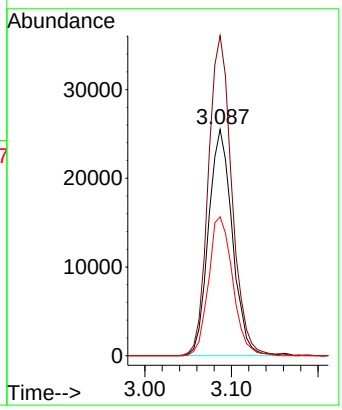




#21
trans-1,2-Dichloroethene
Concen: 20.276 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 96 Resp: 4866

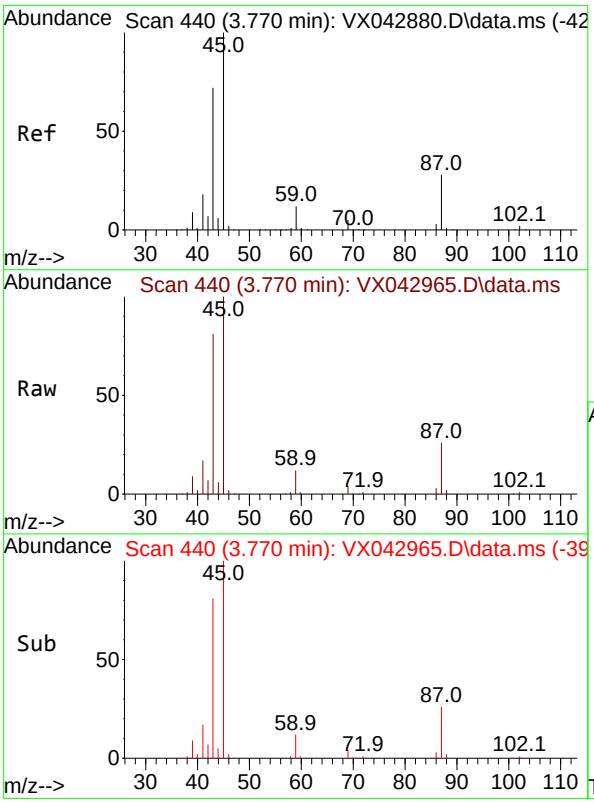
Ion	Ratio	Lower	Upper
96	100		
61	141.4	119.2	178.8
98	61.4	48.7	73.1



Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

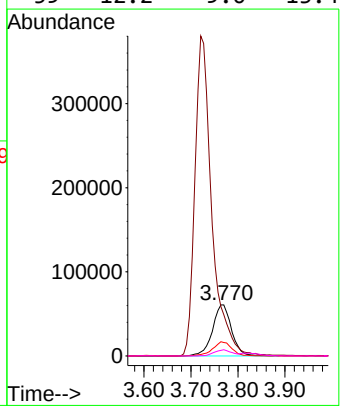
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

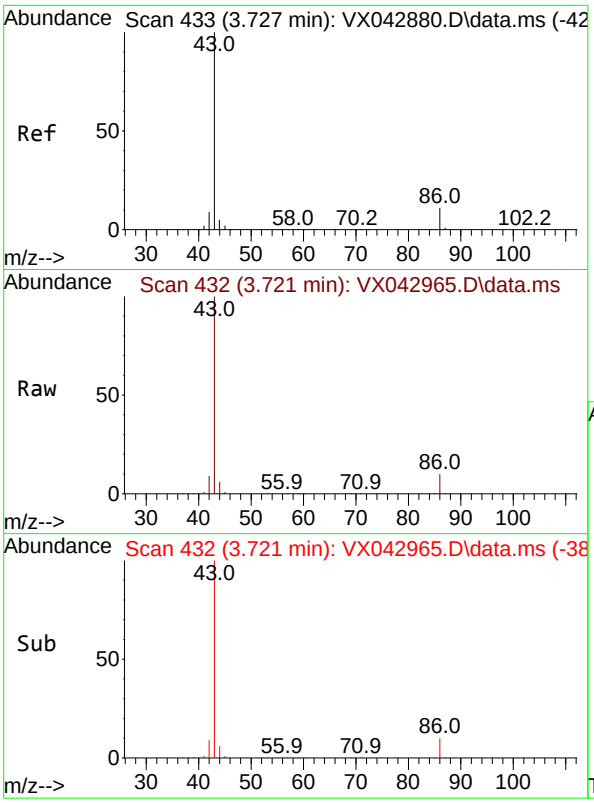


#22
Diisopropyl ether
Concen: 21.615 ug/l
RT: 3.770 min Scan# 440
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 45 Resp: 171164

Ion	Ratio	Lower	Upper
45	100		
43	80.8	69.7	104.5
87	26.2	20.8	31.2
59	12.2	9.0	13.4





#23
Vinyl Acetate
Concen: 106.491 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

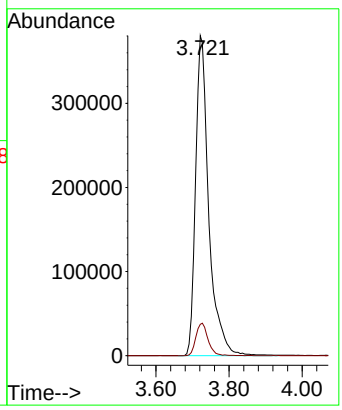
Tgt Ion: 43 Resp: 95705

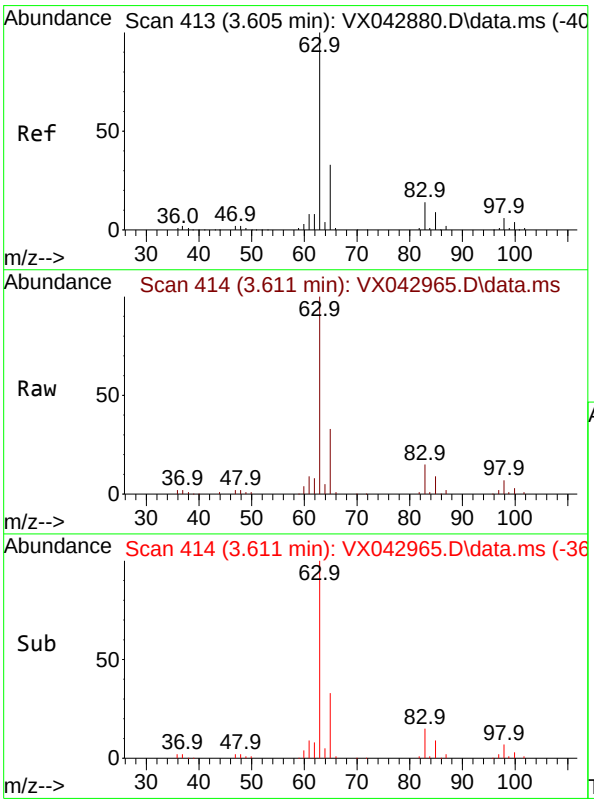
Ion	Ratio	Lower	Upper
43	100		
86	9.8	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

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

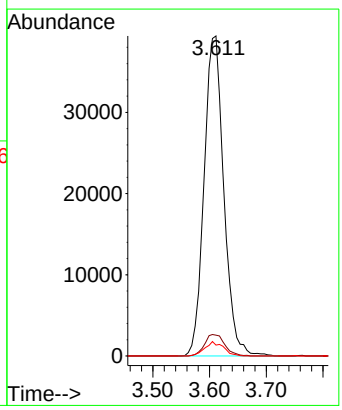


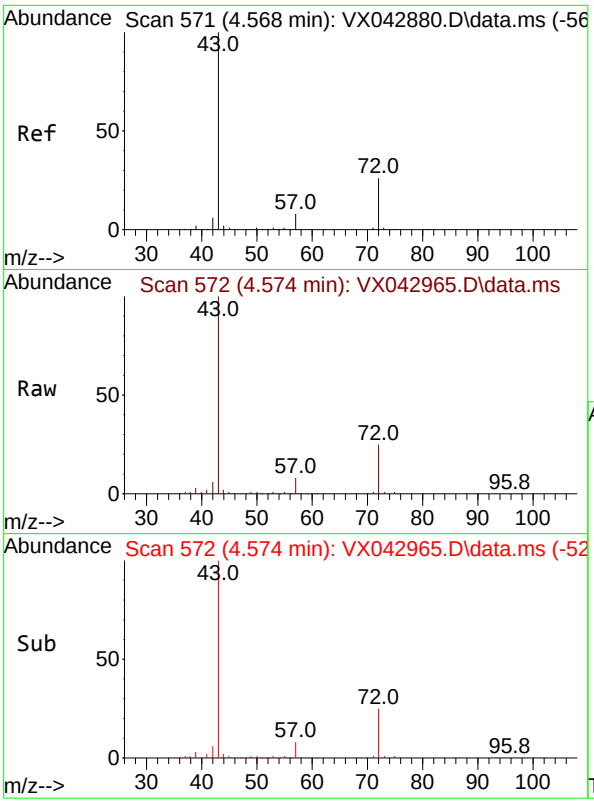


#24
1,1-Dichloroethane
Concen: 20.917 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 63 Resp: 95262

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.3	9.8
100	3.4	2.1	6.5





#25
2-Butanone
Concen: 101.403 ug/l
RT: 4.574 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

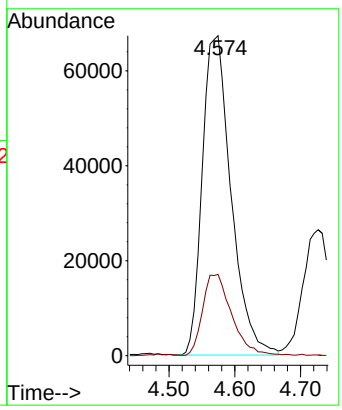
Tgt Ion: 43 Resp: 20522

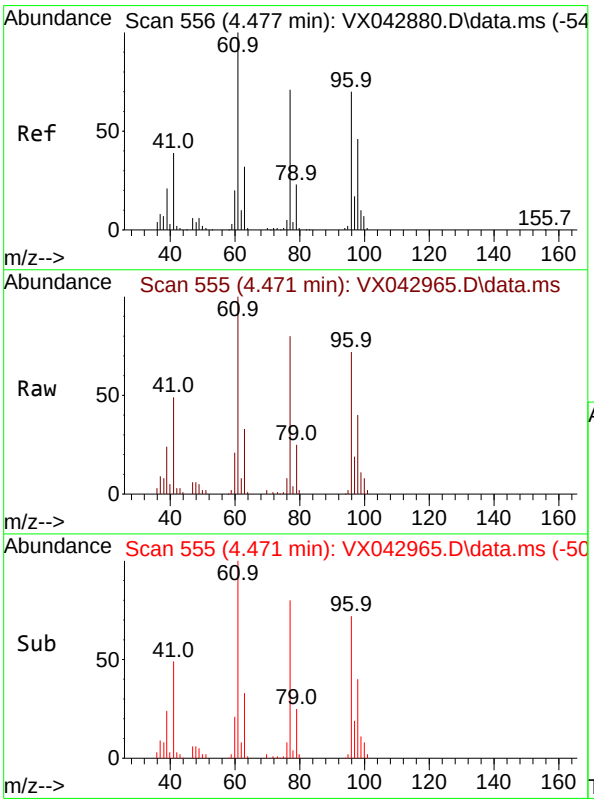
Ion	Ratio	Lower	Upper
43	100		
72	25.2	19.4	29.2

Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

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

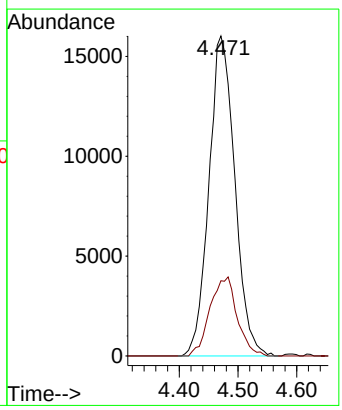


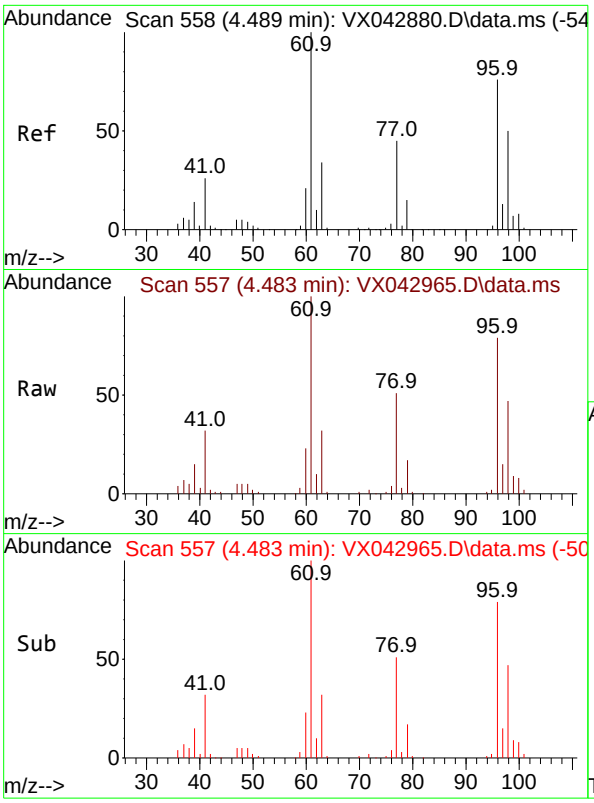


#26
2,2-Dichloropropane
Concen: 17.503 ug/l
RT: 4.471 min Scan# 555
Delta R.T. -0.006 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 77 Resp: 49005

Ion	Ratio	Lower	Upper
77	100		
97	25.9	10.8	32.3





#27
cis-1,2-Dichloroethene
Concen: 20.908 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

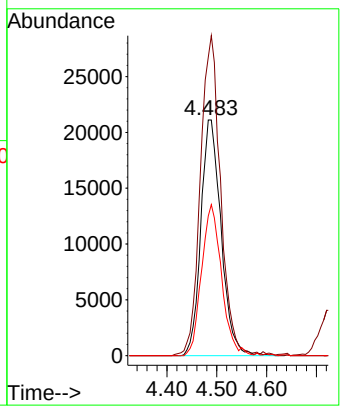
Tgt Ion: 96 Resp: 5950

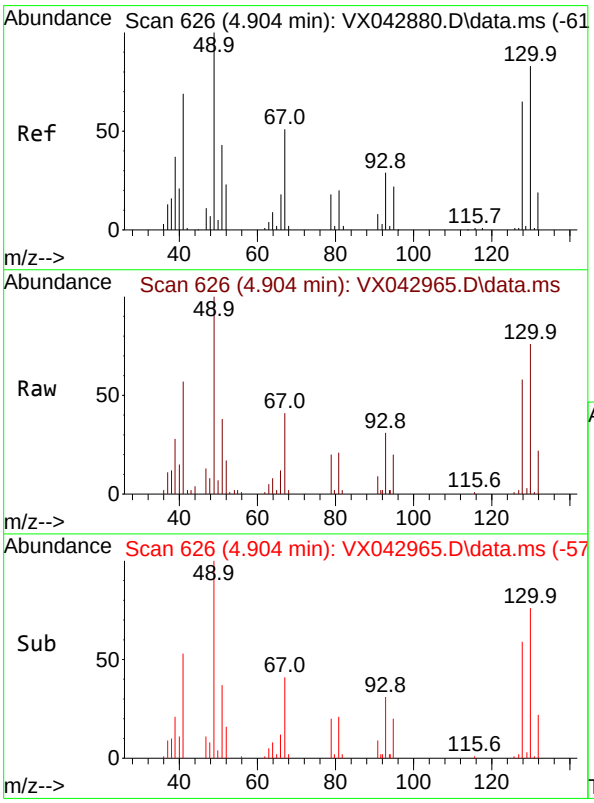
Ion	Ratio	Lower	Upper
96	100		
61	135.0	0.0	312.2
98	63.2	0.0	129.0

Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

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

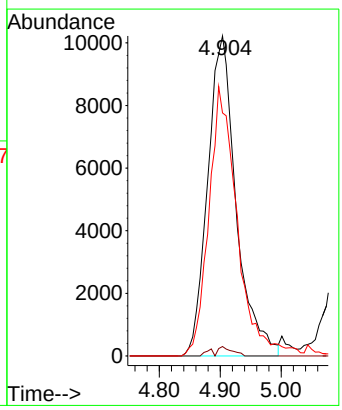


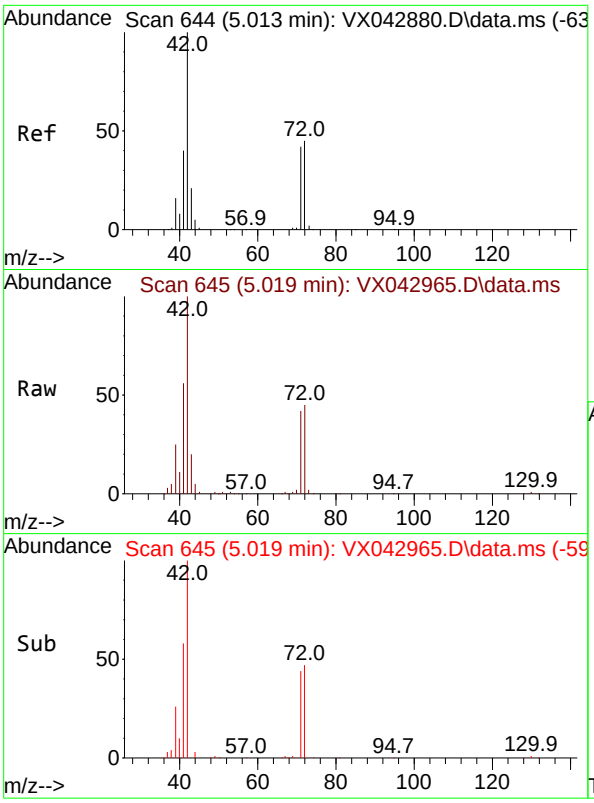


#28
Bromochloromethane
Concen: 18.963 ug/l
RT: 4.904 min Scan# 626
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 49 Resp: 33137

Ion	Ratio	Lower	Upper
49	100		
129	1.4	0.0	3.8
130	84.0	57.5	86.3





#29
Tetrahydrofuran
Concen: 98.375 ug/l
RT: 5.019 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

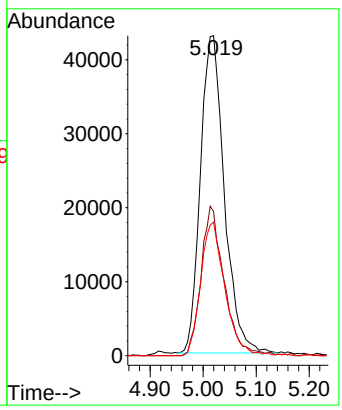
Tgt Ion: 42 Resp: 13453

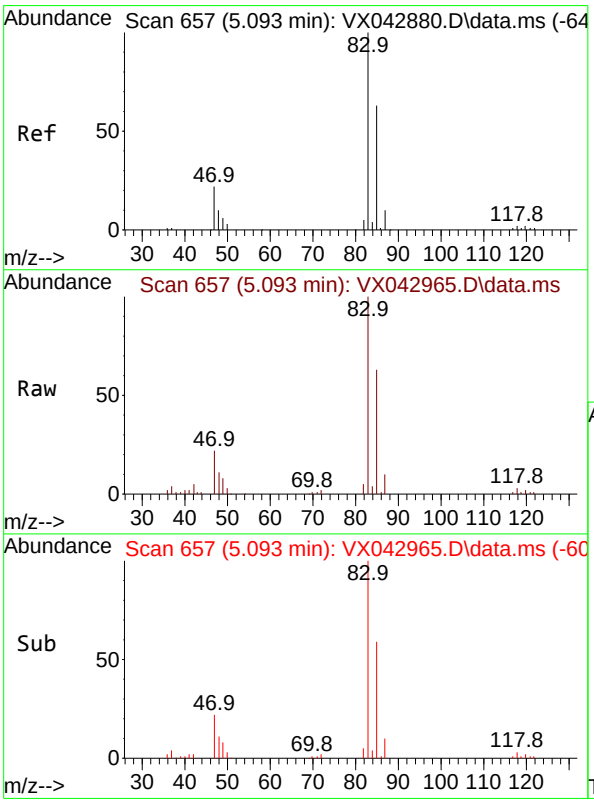
Ion	Ratio	Lower	Upper
42	100		
72	45.3	34.2	51.4
71	42.4	32.2	48.2

Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

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

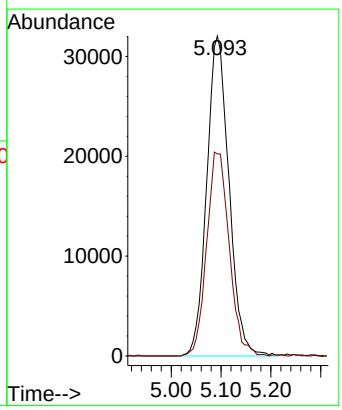


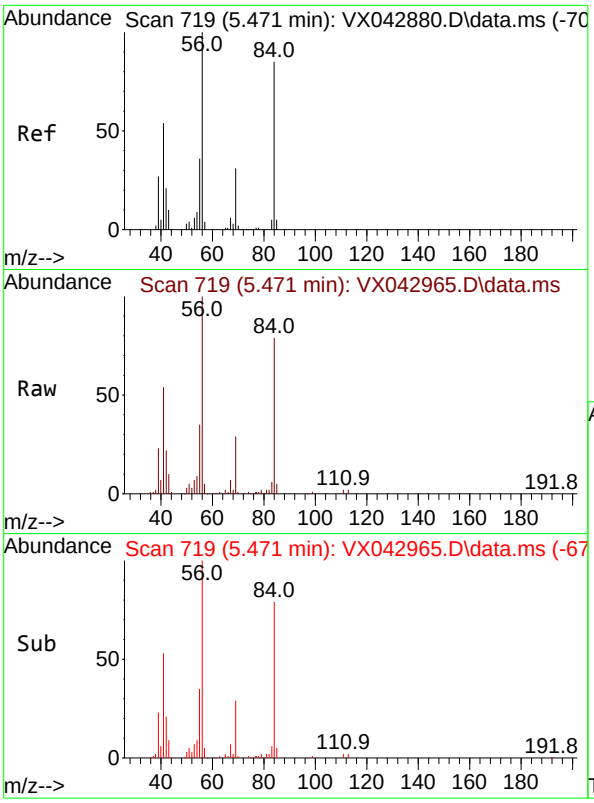


#30
Chloroform
Concen: 20.818 ug/l
RT: 5.093 min Scan# 657
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 83 Resp: 99252

Ion	Ratio	Lower	Upper
83	100		
85	63.2	50.3	75.5

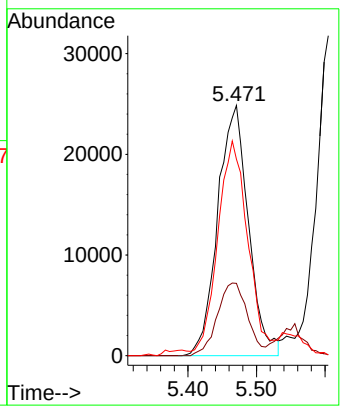




#31
Cyclohexane
Concen: 20.815 ug/l
RT: 5.471 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 56 Resp: 7738

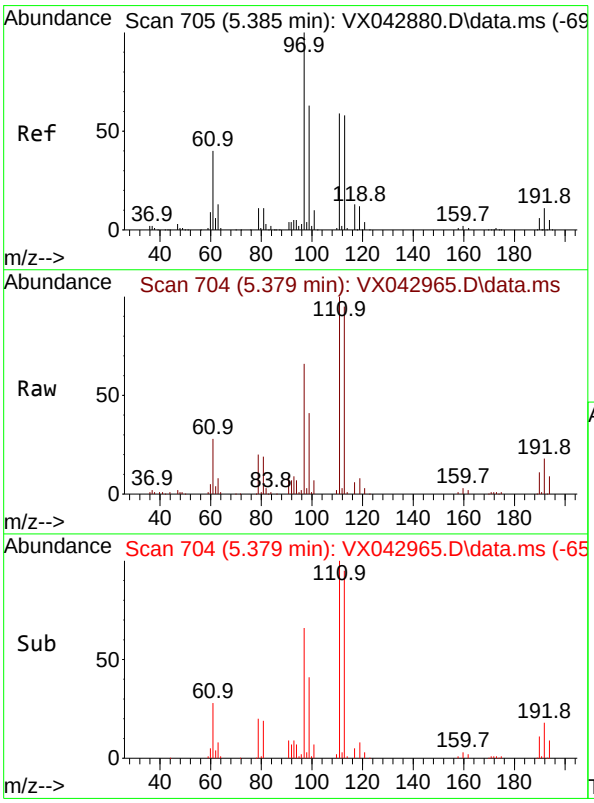
Ion	Ratio	Lower	Upper
56	100		
69	28.9	23.4	35.2
84	76.1	65.9	98.9



Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

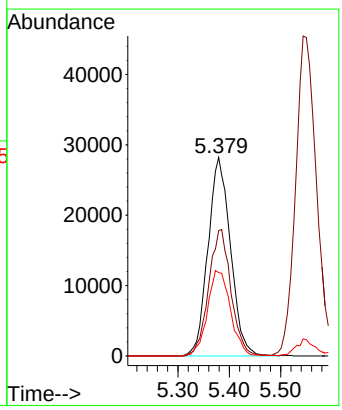
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

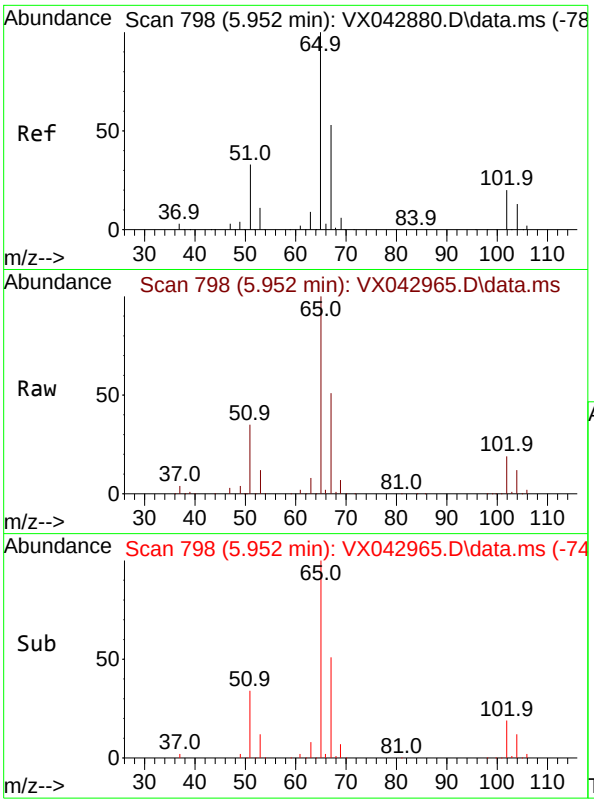


#32
1,1,1-Trichloroethane
Concen: 20.443 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 97 Resp: 85802

Ion	Ratio	Lower	Upper
97	100		
99	63.1	51.1	76.7
61	44.1	36.4	54.6





#33
1,2-Dichloroethane-d4
Concen: 57.405 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

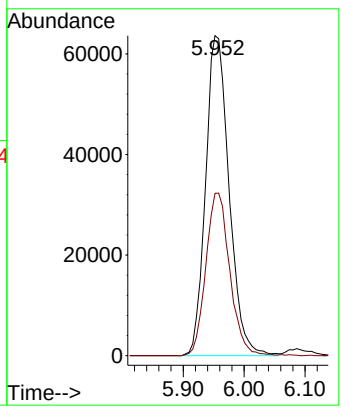
Tgt Ion: 65 Resp: 17055

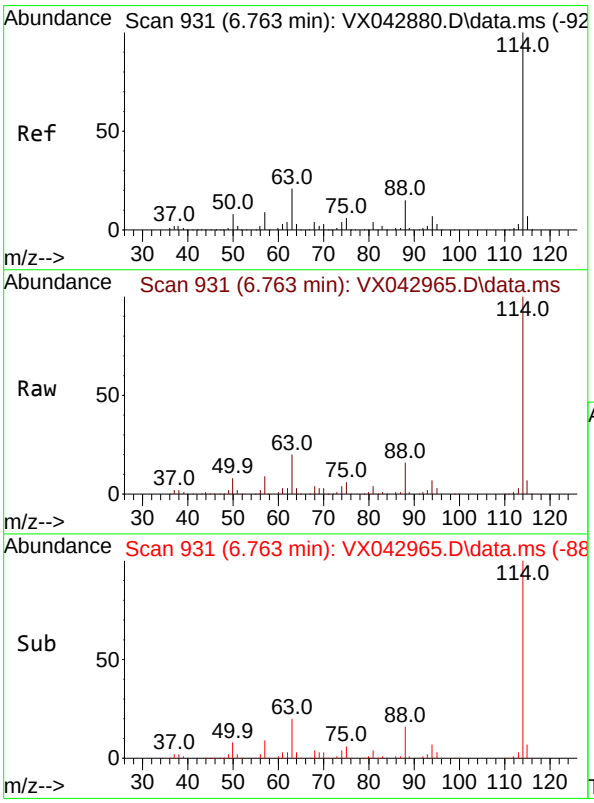
Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	100.2

Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

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

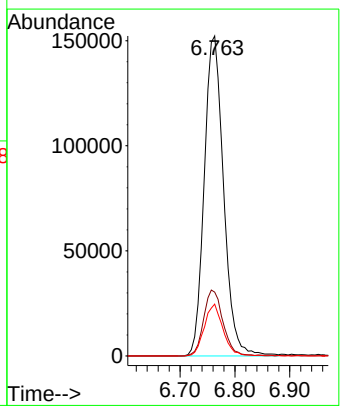


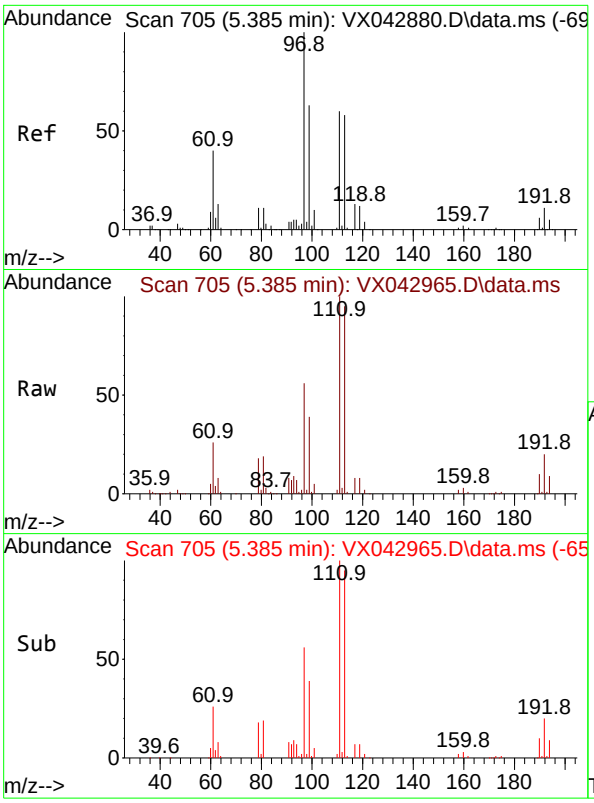


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion:114 Resp: 372967

Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	45.0
88	16.2	0.0	36.6

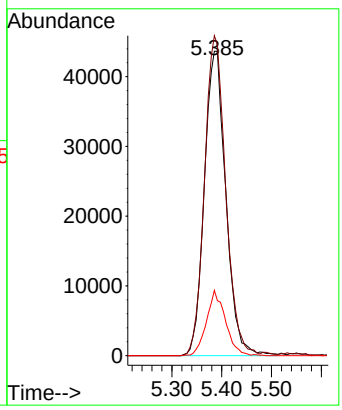




#35
Dibromofluoromethane
Concen: 53.651 ug/l
RT: 5.385 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion:113 Resp: 13083

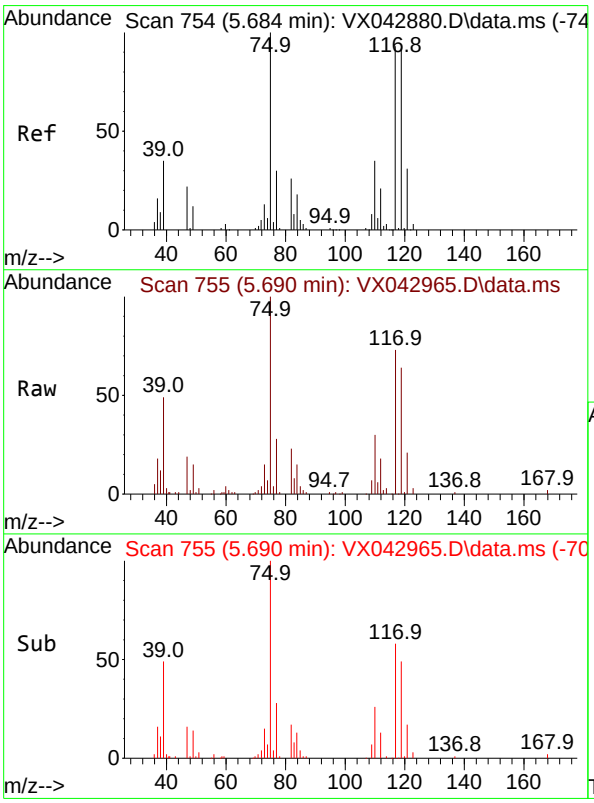
Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.9	124.3
192	19.0	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

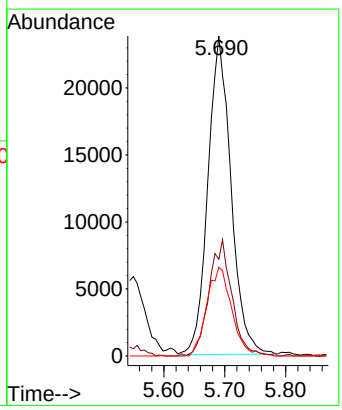
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

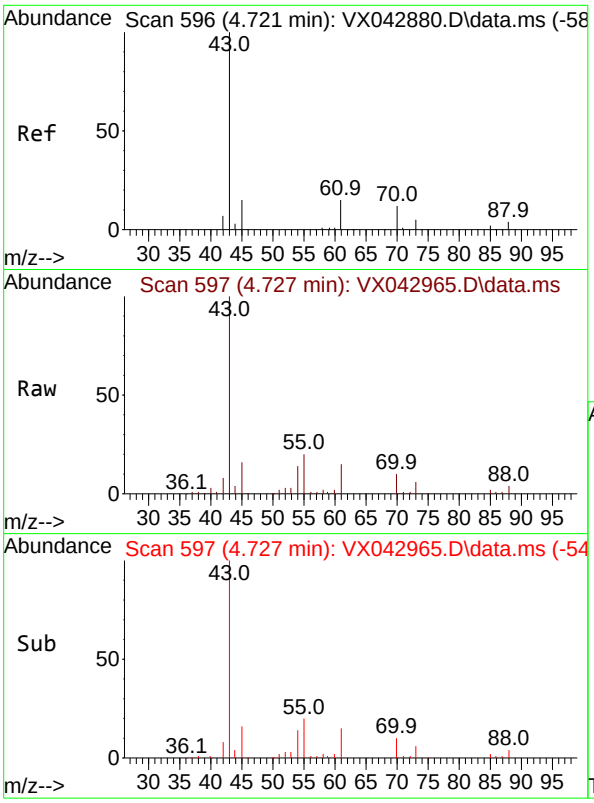


#36
1,1-Dichloropropene
Concen: 18.922 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.006 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 75 Resp: 62561

Ion	Ratio	Lower	Upper
75	100		
110	36.0	17.0	50.9
77	30.4	24.7	37.1

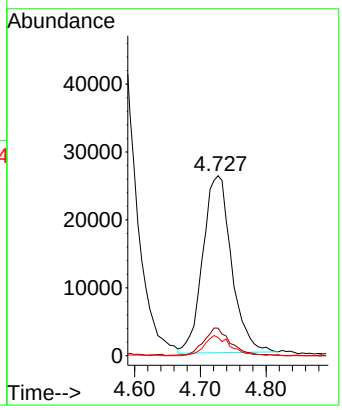




#37
Ethyl Acetate
Concen: 19.105 ug/l
RT: 4.727 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 43 Resp: 7903

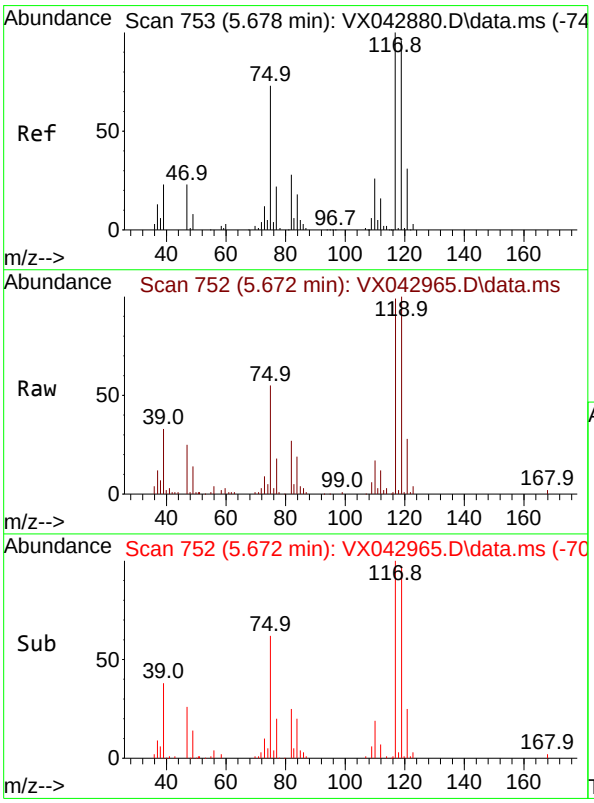
Ion	Ratio	Lower	Upper
43	100		
61	14.8	10.6	16.0
70	10.2	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

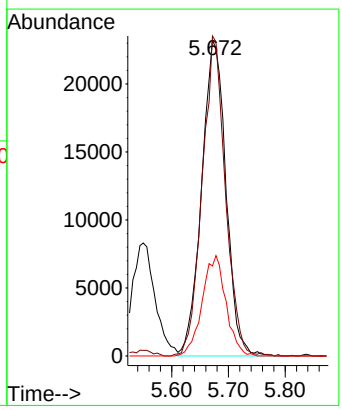
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

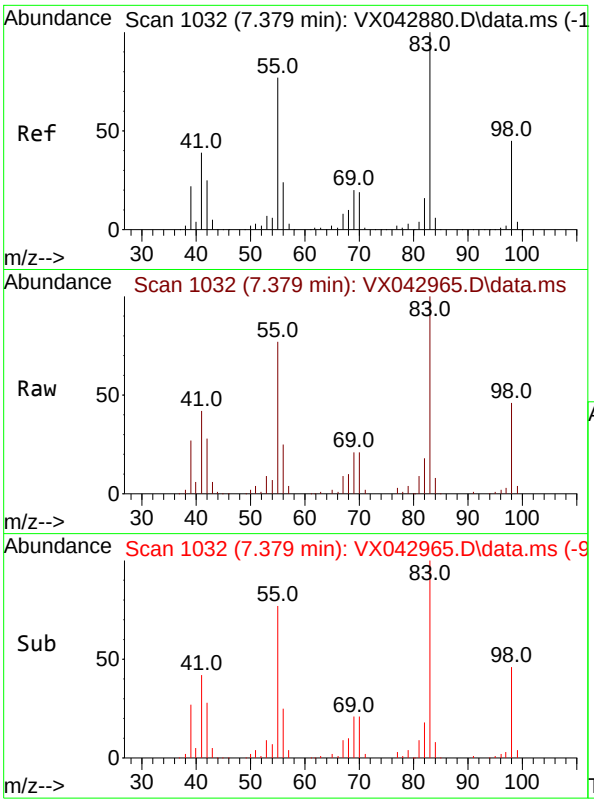


#38
Carbon Tetrachloride
Concen: 18.504 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.006 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion:117 Resp: 69061

Ion	Ratio	Lower	Upper
117	100		
119	100.9	78.2	117.2
121	28.5	24.4	36.6

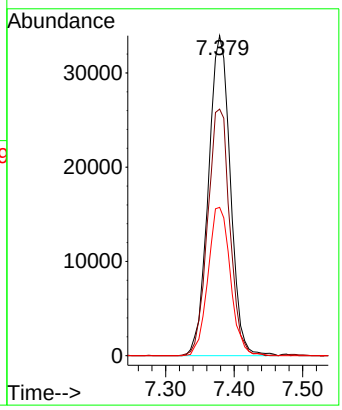




#39
Methylcyclohexane
Concen: 19.194 ug/l
RT: 7.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 83 Resp: 7544

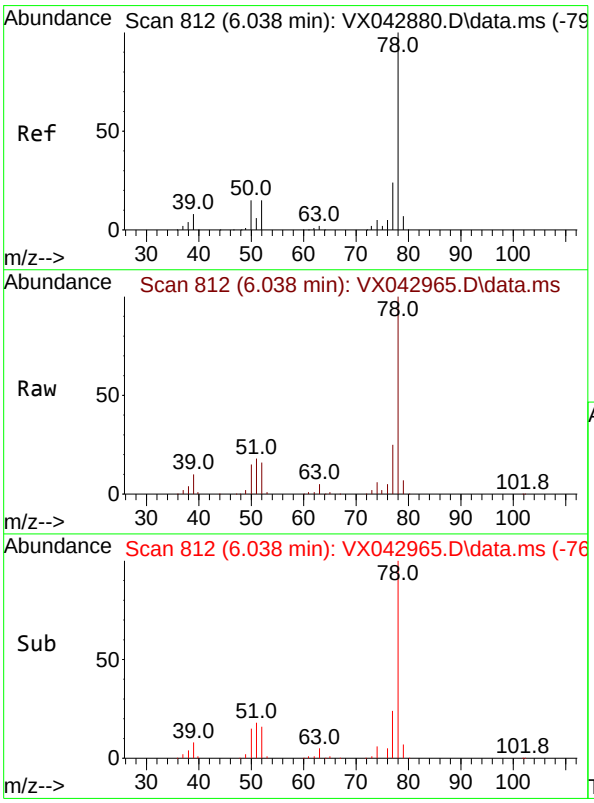
Ion	Ratio	Lower	Upper
83	100		
55	77.1	64.6	97.0
98	46.4	36.7	55.1



Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

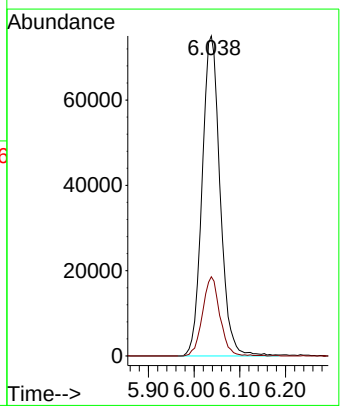
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

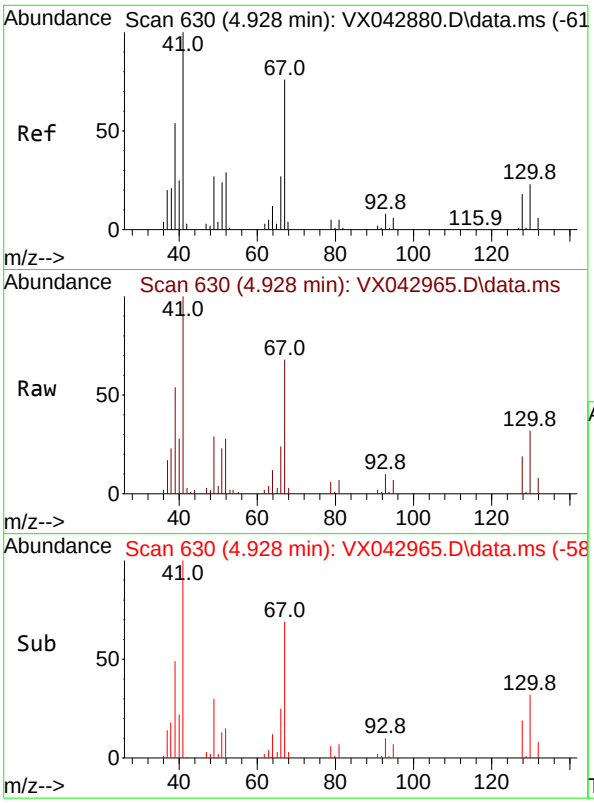


#40
Benzene
Concen: 19.993 ug/l
RT: 6.038 min Scan# 812
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 78 Resp: 205151

Ion	Ratio	Lower	Upper
78	100		
77	24.7	19.3	28.9

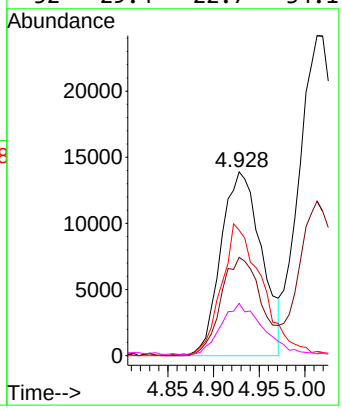




#41
Methacrylonitrile
Concen: 20.170 ug/l
RT: 4.928 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 41 Resp: 4297

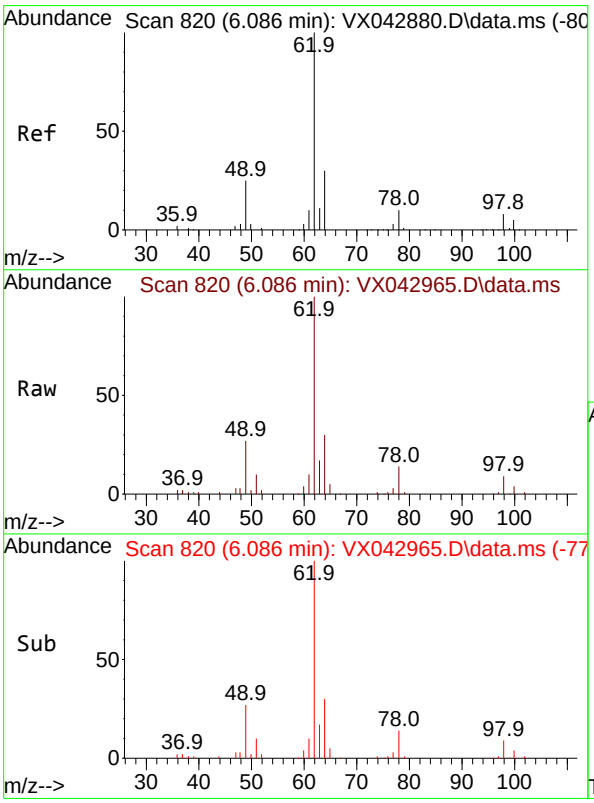
Ion	Ratio	Lower	Upper
41	100		
39	53.4	45.2	67.8
67	72.1	52.6	78.8
52	29.4	22.7	34.1



Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

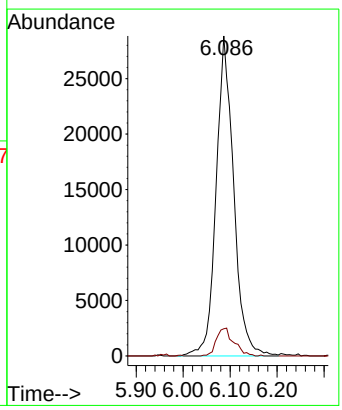
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

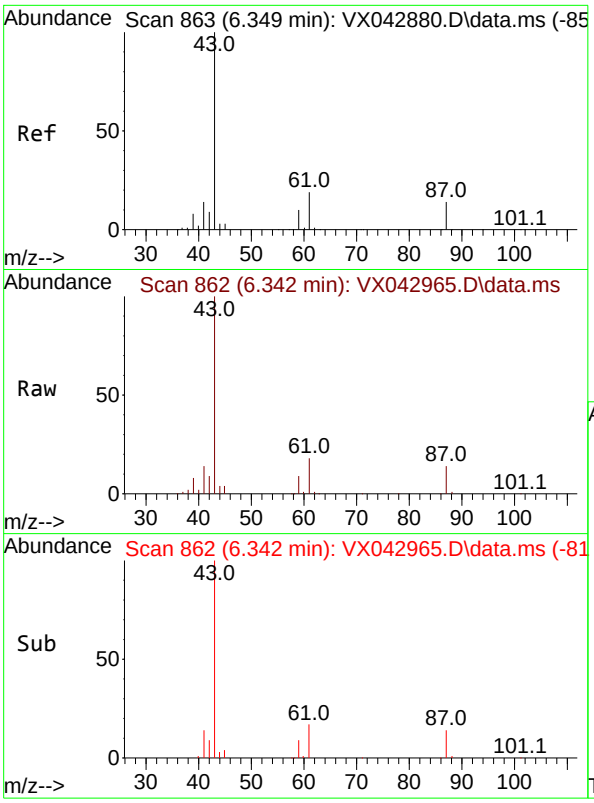


#42
1,2-Dichloroethane
Concen: 20.098 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 62 Resp: 75014

Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	16.0





#43
Isopropyl Acetate
Concen: 19.674 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

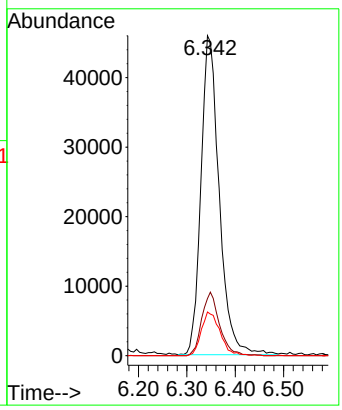
Tgt Ion: 43 Resp: 12036

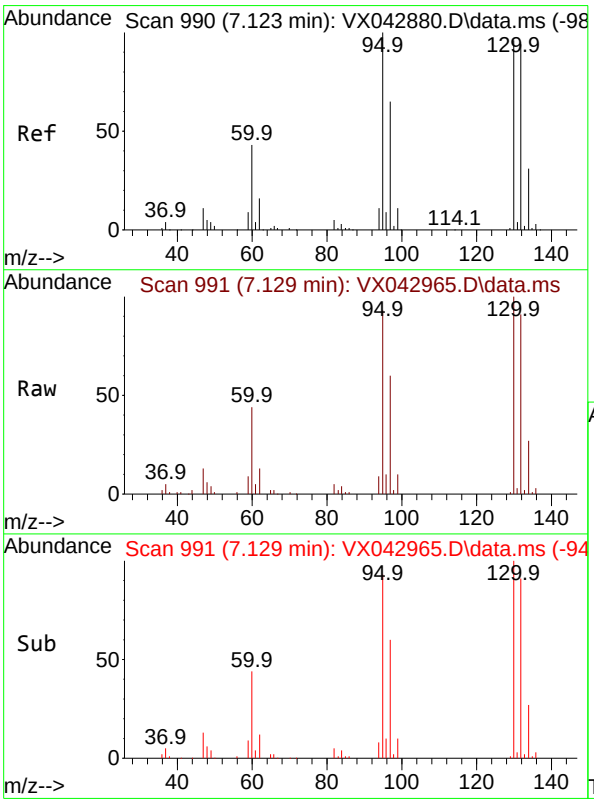
Ion	Ratio	Lower	Upper
43	100		
61	19.4	15.2	22.8
87	14.1	9.8	14.6

Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

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

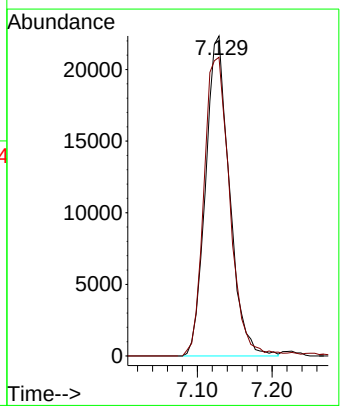


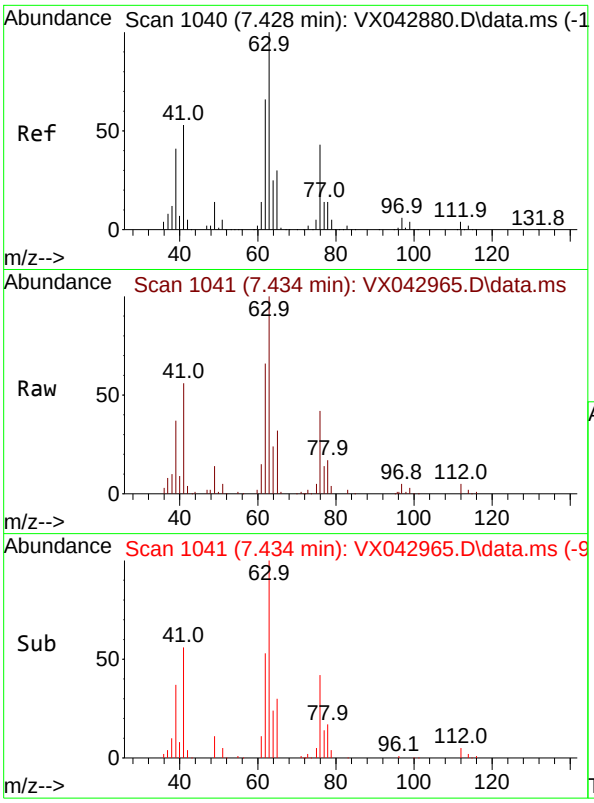


#44
Trichloroethene
Concen: 19.258 ug/l
RT: 7.129 min Scan# 991
Delta R.T. 0.006 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion:130 Resp: 49654

Ion	Ratio	Lower	Upper
130	100		
95	93.4	0.0	204.4

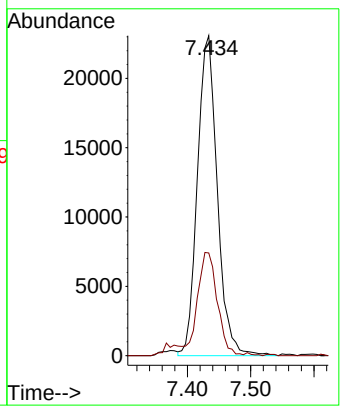




#45
1,2-Dichloropropane
Concen: 19.414 ug/l
RT: 7.434 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 63 Resp: 5053

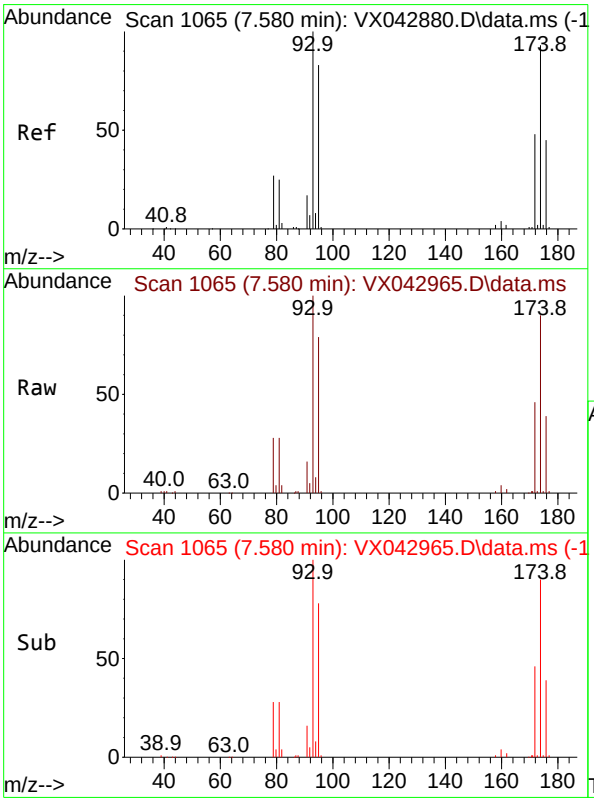
Ion	Ratio	Lower	Upper
63	100		
65	32.1	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

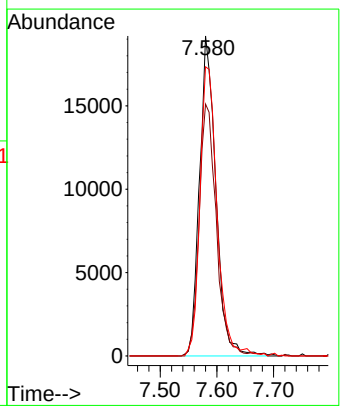
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

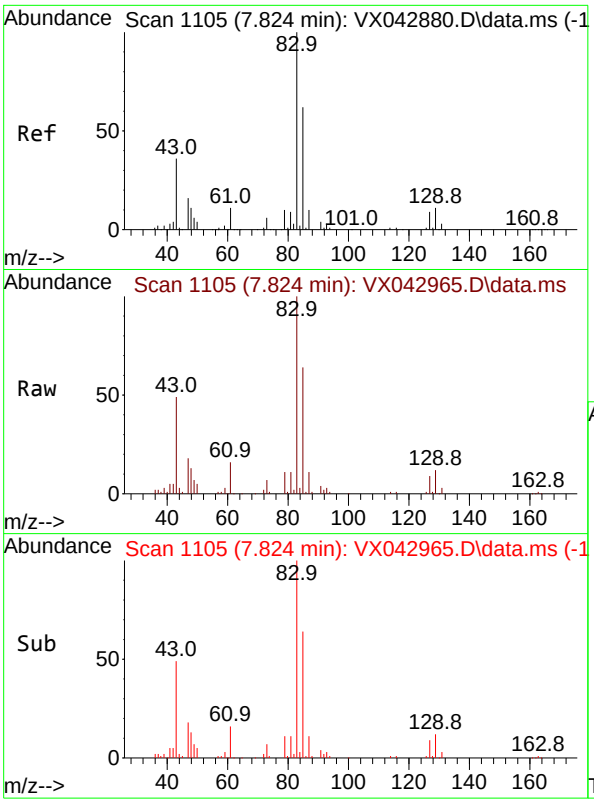


#46
Dibromomethane
Concen: 20.155 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 93 Resp: 38533

Ion	Ratio	Lower	Upper
93	100		
95	82.7	66.6	100.0
174	94.8	69.4	104.0

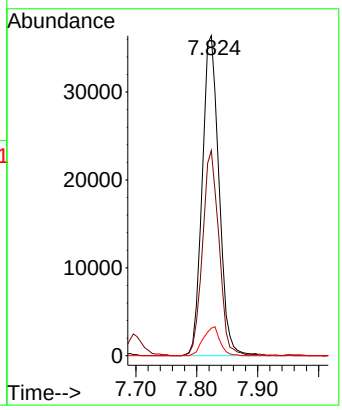




#47
Bromodichloromethane
Concen: 19.647 ug/l
RT: 7.824 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 83 Resp: 6977

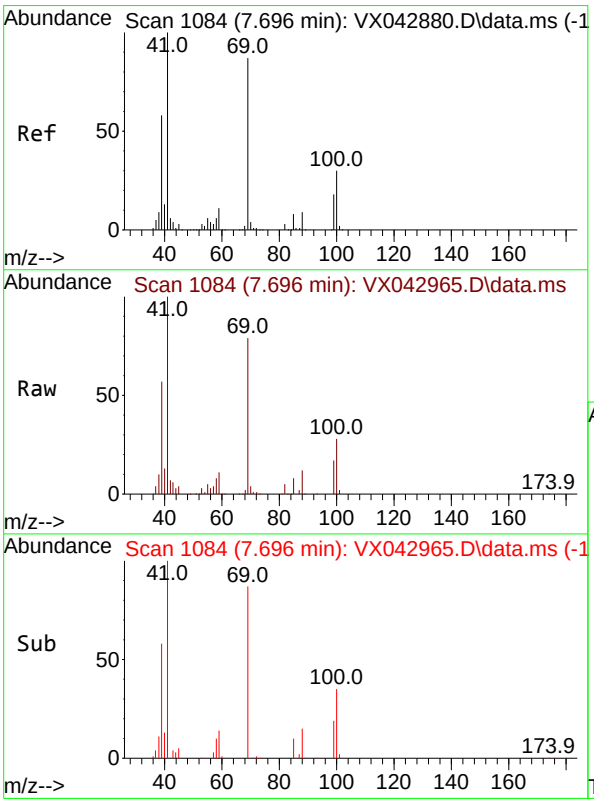
Ion	Ratio	Lower	Upper
83	100		
85	64.1	49.8	74.6
127	8.6	7.1	10.7



Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

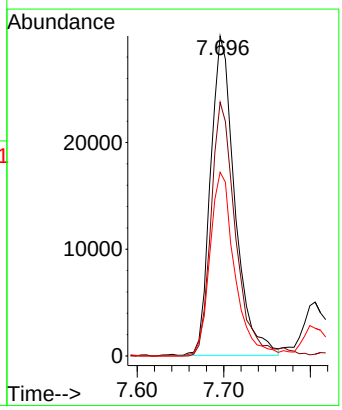
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

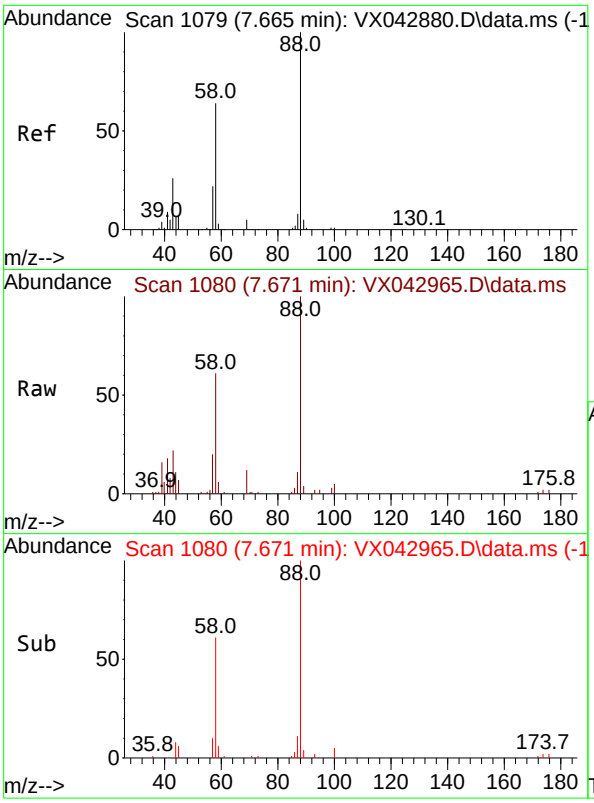


#48
Methyl methacrylate
Concen: 19.871 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 41 Resp: 58292

Ion	Ratio	Lower	Upper
41	100		
69	80.9	59.2	88.8
39	58.8	47.7	71.5

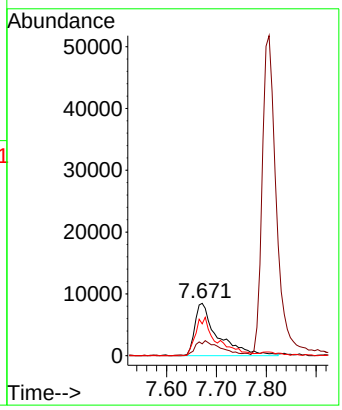




#49
1,4-Dioxane
Concen: 413.183 ug/l
RT: 7.671 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 88 Resp: 2690

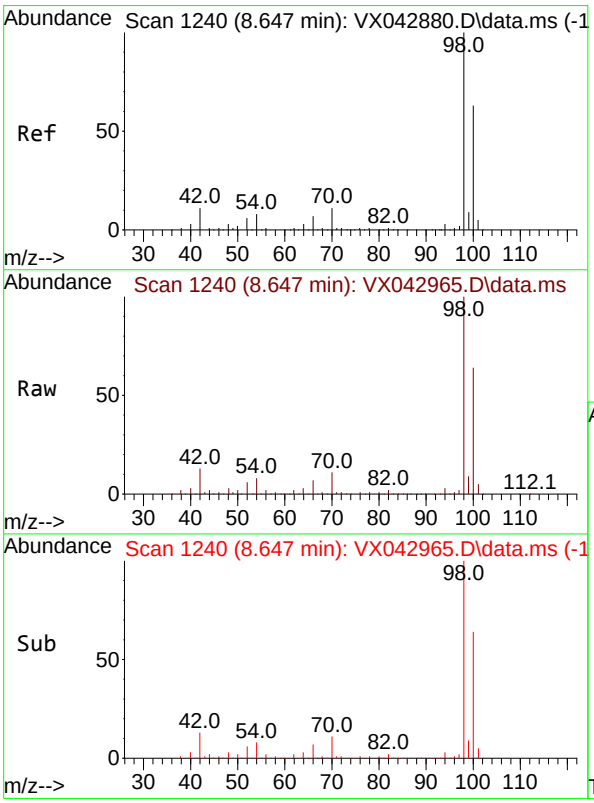
Ion	Ratio	Lower	Upper
88	100		
43	32.5	0.0	0.0
58	67.4	60.1	90.1



Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

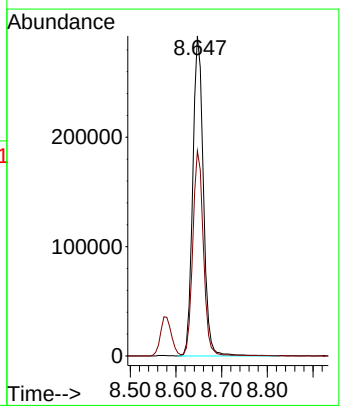
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

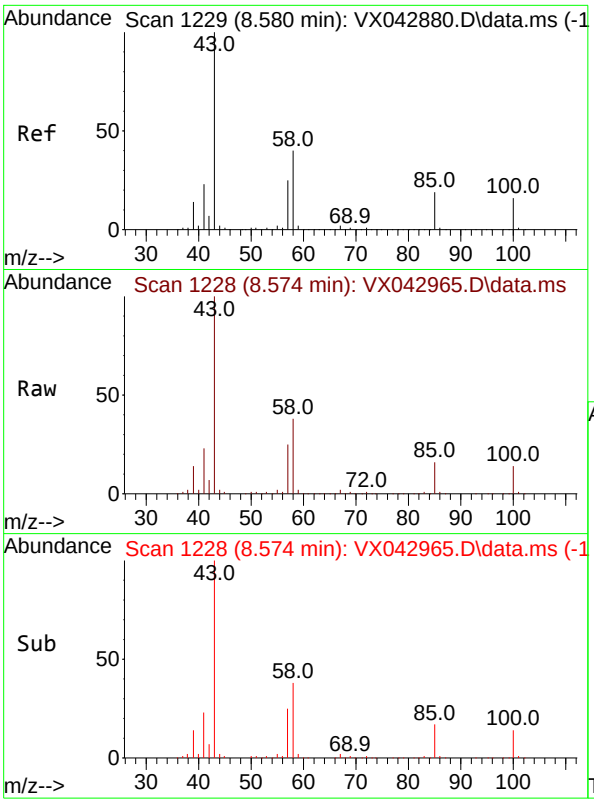


#50
Toluene-d8
Concen: 54.575 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 98 Resp: 472468

Ion	Ratio	Lower	Upper
98	100		
100	63.9	53.1	79.7





#51
4-Methyl-2-Pentanone
Concen: 101.040 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

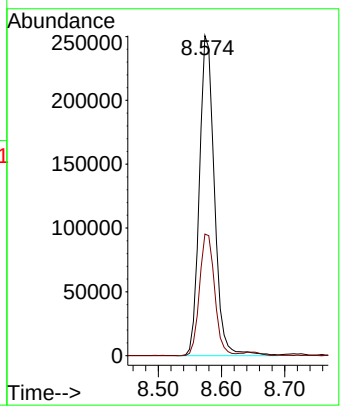
Tgt Ion: 43 Resp: 41406

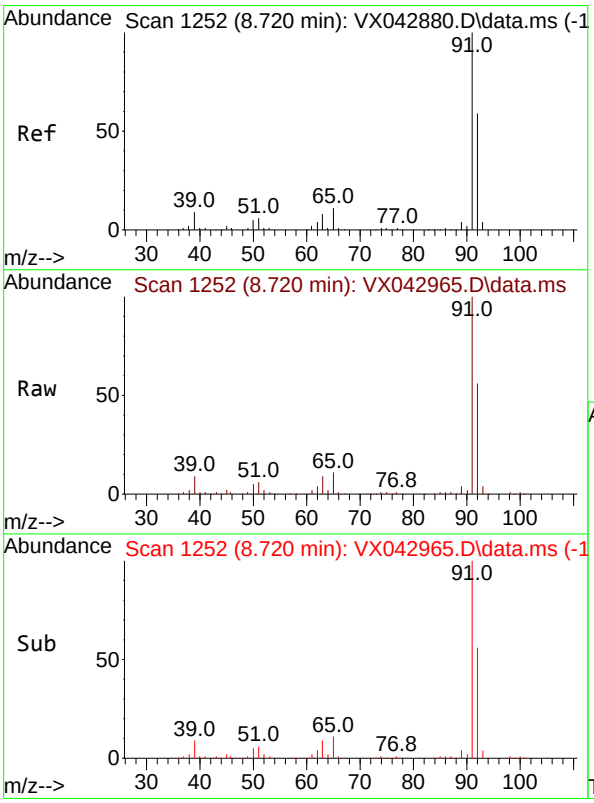
Ion	Ratio	Lower	Upper
43	100		
58	38.5	30.4	45.6

Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

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

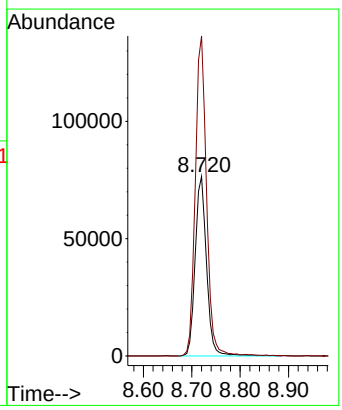


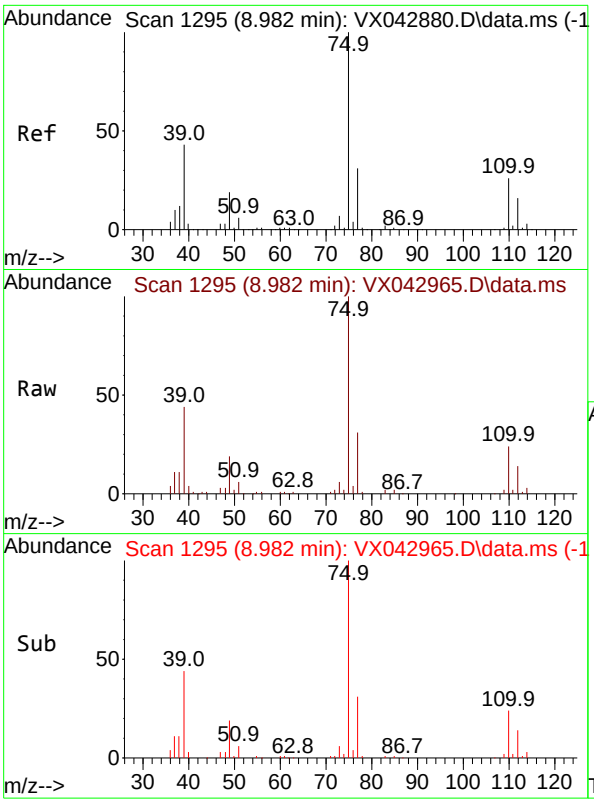


#52
Toluene
Concen: 19.997 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 92 Resp: 124470

Ion	Ratio	Lower	Upper
92	100		
91	175.1	134.2	201.2

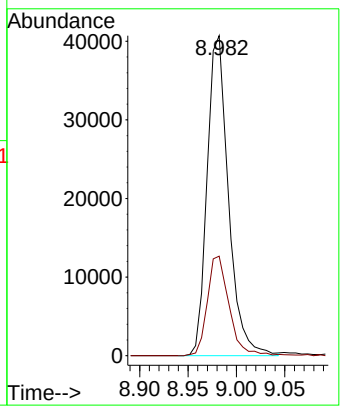




#53
t-1,3-Dichloropropene
Concen: 19.068 ug/l
RT: 8.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 75 Resp: 6260

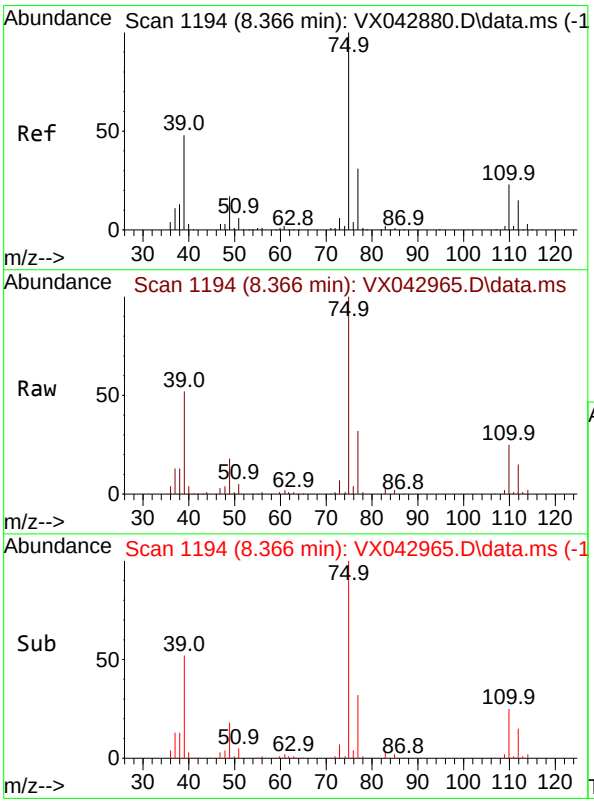
Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

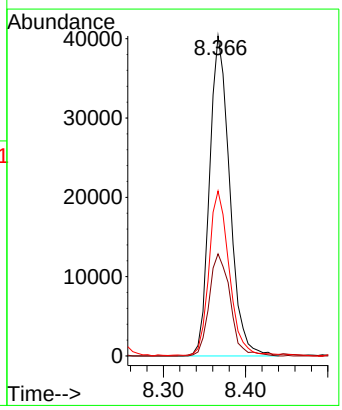
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

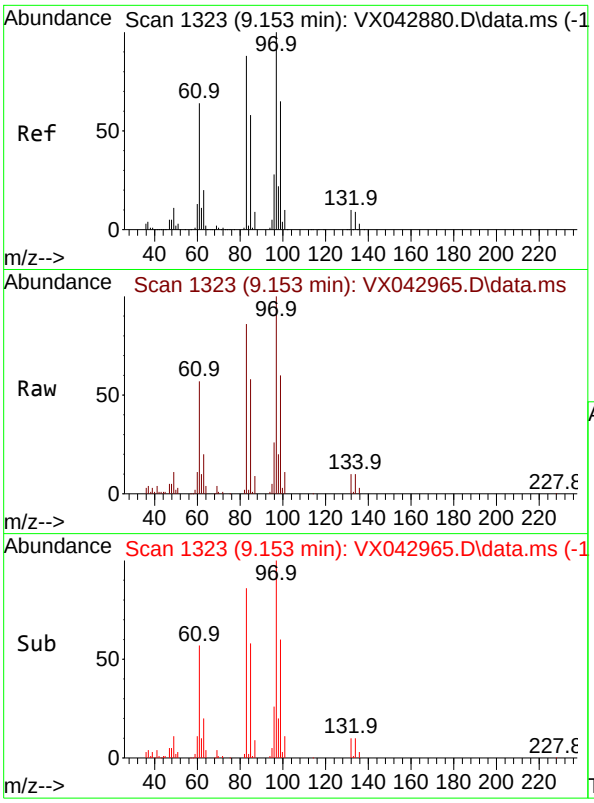


#54
cis-1,3-Dichloropropene
Concen: 18.942 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 75 Resp: 68677

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.3	37.9
39	51.3	46.7	70.1

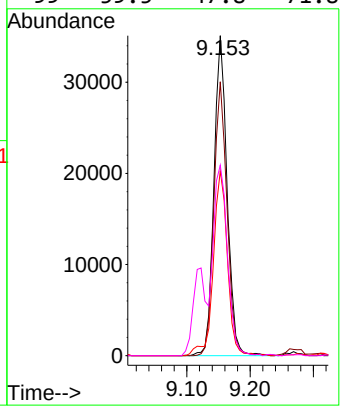




#55
1,1,2-Trichloroethane
Concen: 20.024 ug/l
RT: 9.153 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 97 Resp: 5066

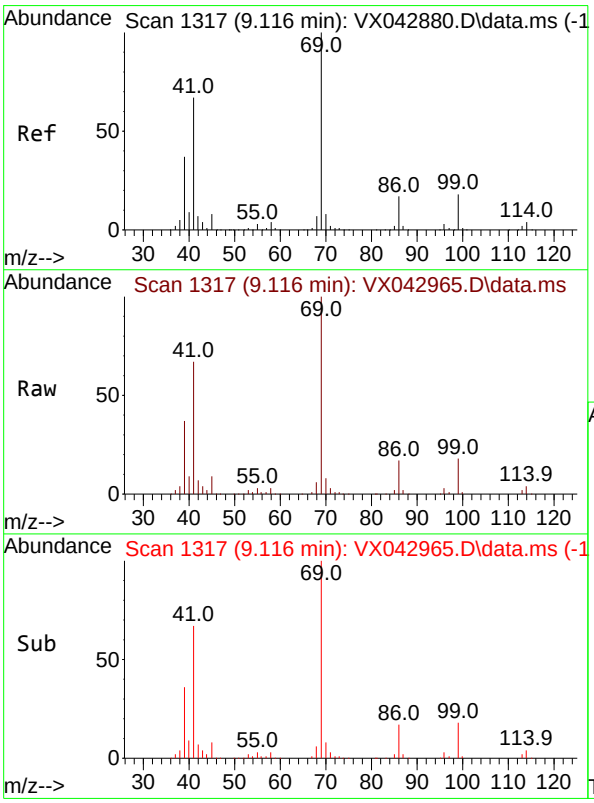
Ion	Ratio	Lower	Upper
97	100		
83	85.6	65.8	98.8
85	57.7	41.6	62.4
99	59.5	47.8	71.8



Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

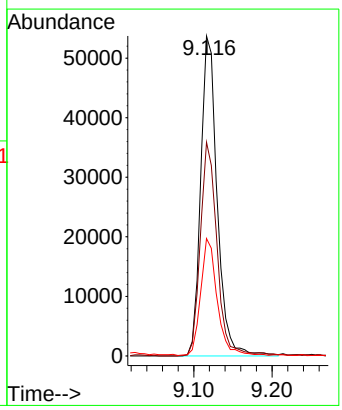
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

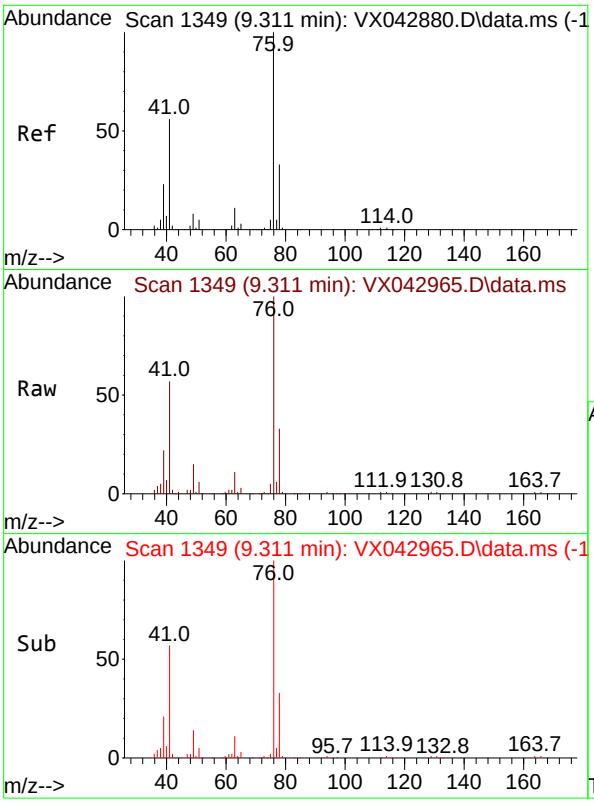


#56
Ethyl methacrylate
Concen: 19.292 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 69 Resp: 78552

Ion	Ratio	Lower	Upper
69	100		
41	68.2	56.8	85.2
39	36.6	32.0	48.0





#57
1,3-Dichloropropane
Concen: 20.374 ug/l
RT: 9.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

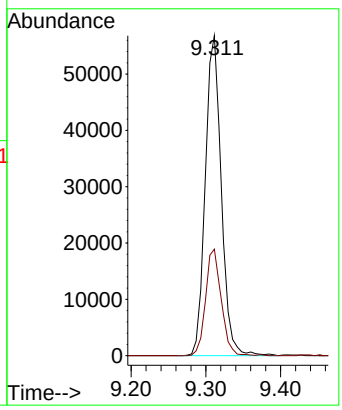
Tgt Ion: 76 Resp: 8445

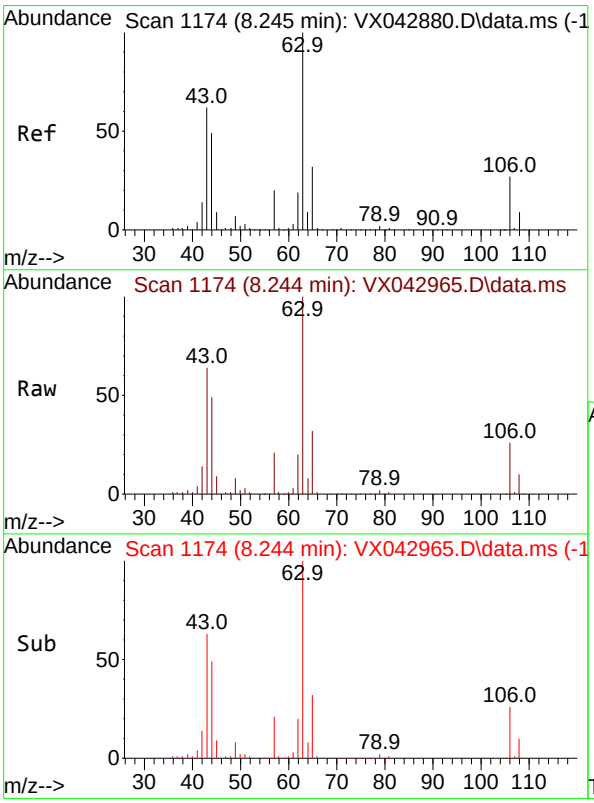
Ion	Ratio	Lower	Upper
76	100		
78	32.5	26.1	39.1

Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

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

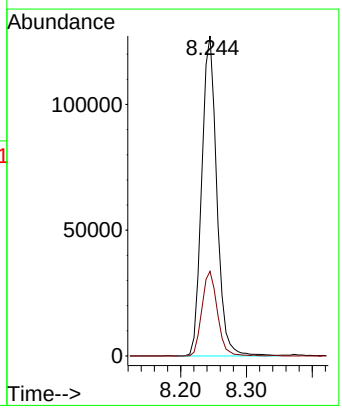


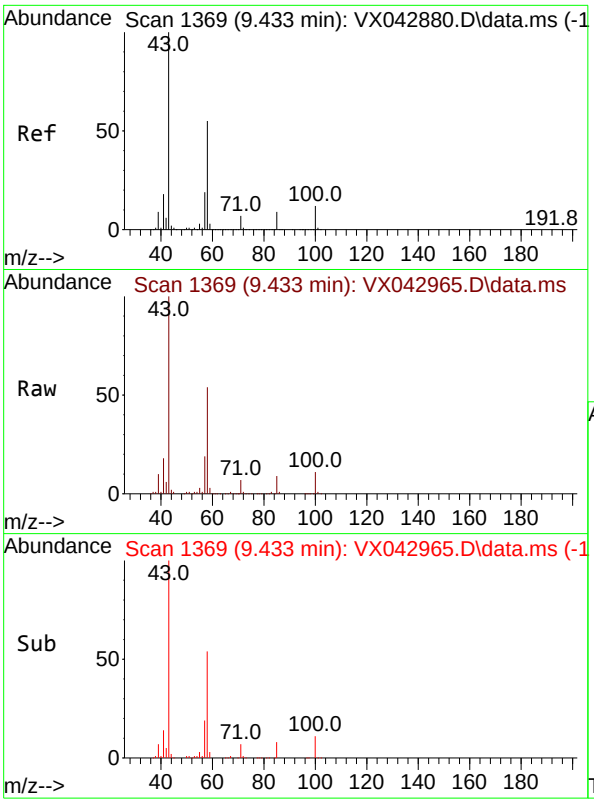


#58
2-Chloroethyl Vinyl ether
Concen: 105.874 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 63 Resp: 203183

Ion	Ratio	Lower	Upper
63	100		
106	27.1	22.5	33.7





#59
2-Hexanone
Concen: 97.561 ug/l
RT: 9.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

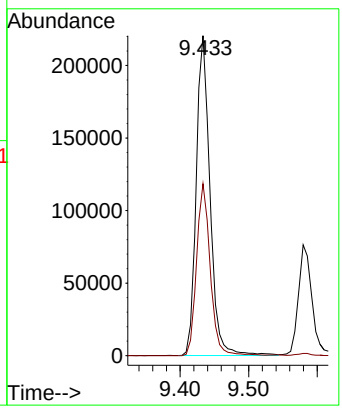
Tgt Ion: 43 Resp: 30979

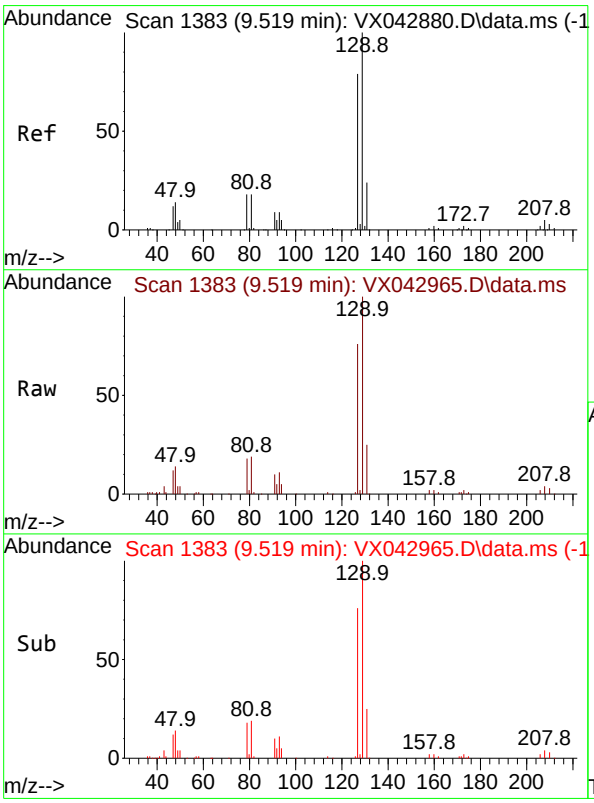
Ion	Ratio	Lower	Upper
43	100		
58	53.2	26.2	78.5

Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

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

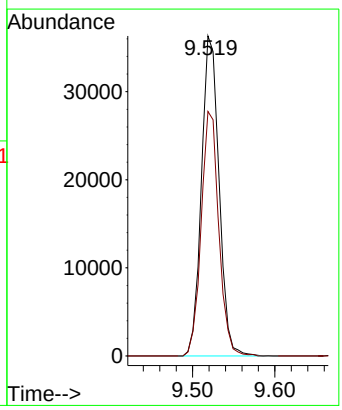


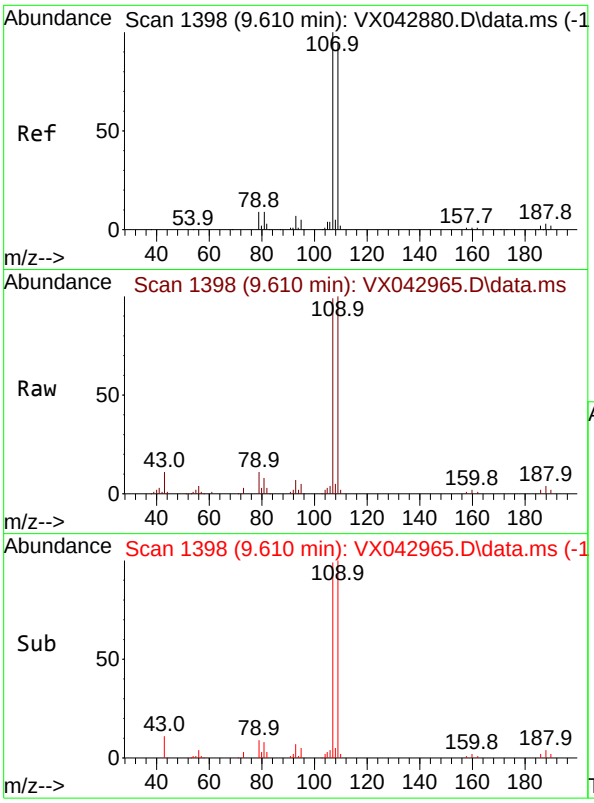


#60
Dibromochloromethane
Concen: 19.422 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion:129 Resp: 53986

Ion	Ratio	Lower	Upper
129	100		
127	76.4	38.8	116.4





#61
1,2-Dibromoethane
Concen: 19.560 ug/l
RT: 9.610 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

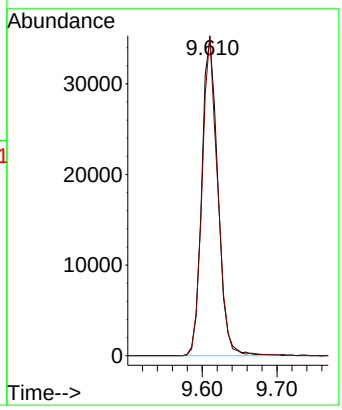
Tgt Ion:107 Resp: 5229

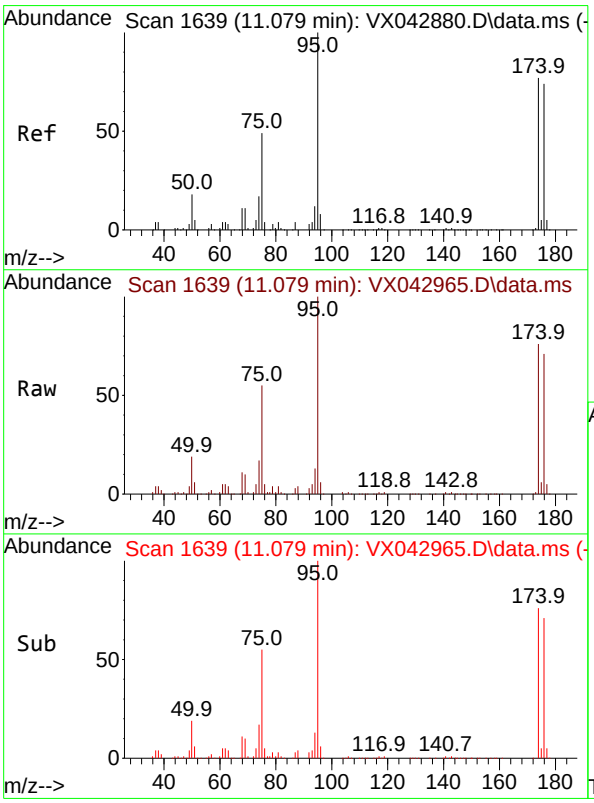
Ion	Ratio	Lower	Upper
107	100		
109	96.2	75.2	112.8

Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

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

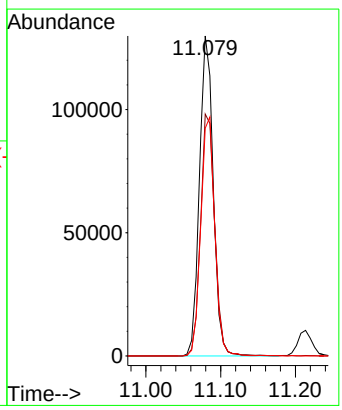


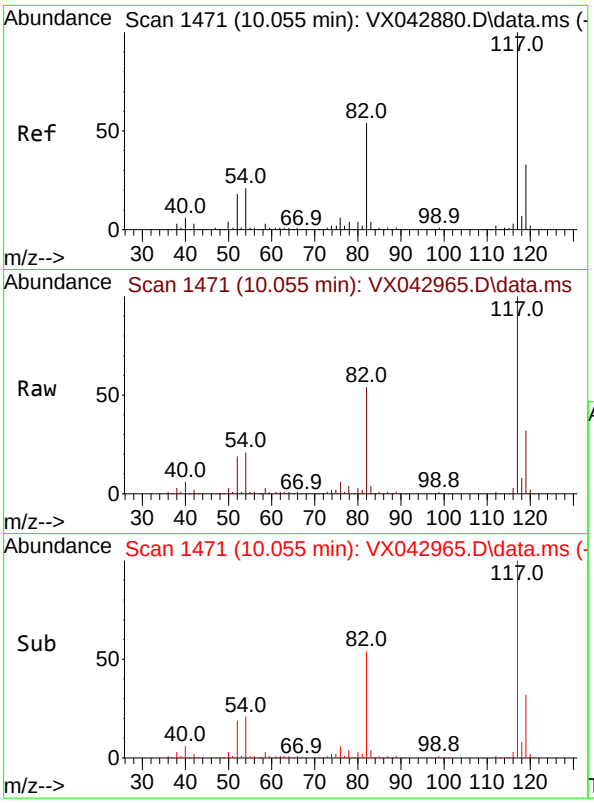


#62
4-Bromofluorobenzene
Concen: 53.466 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 95 Resp: 166330

Ion	Ratio	Lower	Upper
95	100		
174	77.8	0.0	135.6
176	75.8	0.0	131.0





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

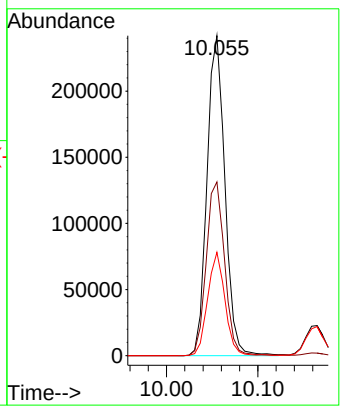
Tgt Ion:117 Resp: 32881(

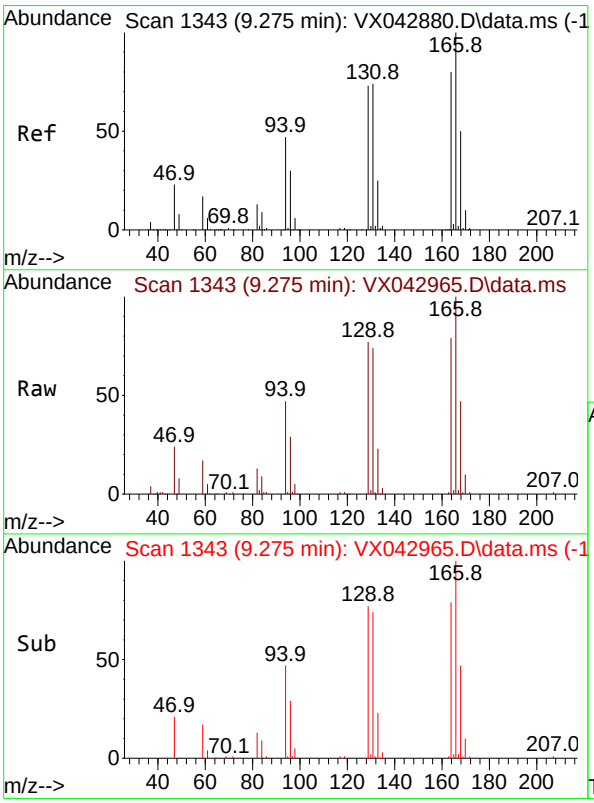
Ion	Ratio	Lower	Upper
117	100		
82	54.3	46.2	69.4
119	32.3	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

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

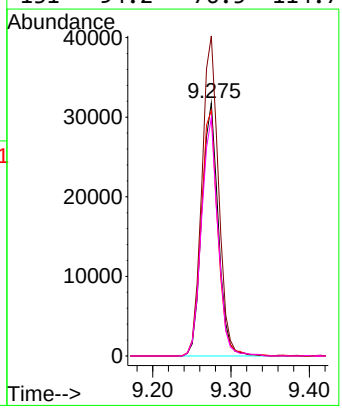


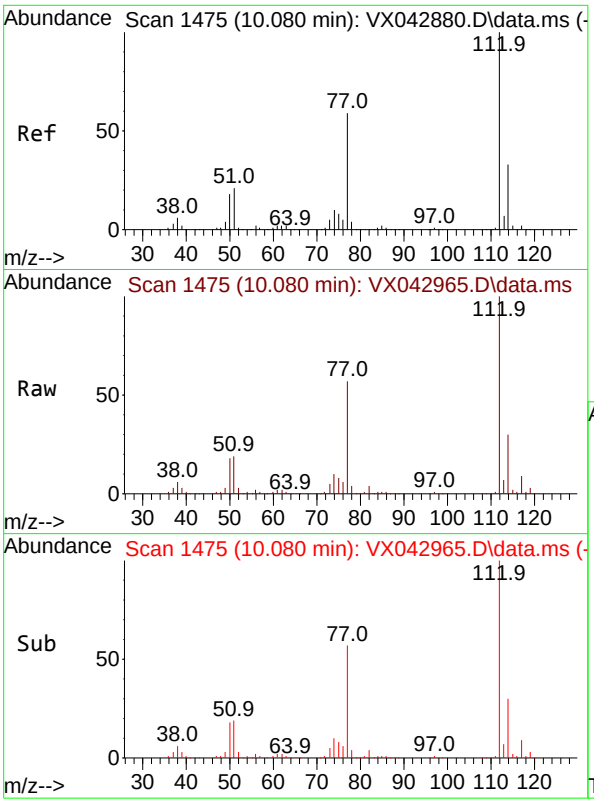


#64
Tetrachloroethene
Concen: 20.221 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion:164 Resp: 46231

Ion	Ratio	Lower	Upper
164	100		
166	126.5	102.7	154.1
129	97.0	80.4	120.6
131	94.2	76.5	114.7

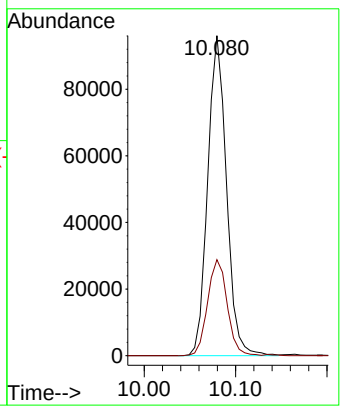




#65
Chlorobenzene
Concen: 19.611 ug/l
RT: 10.080 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion:112 Resp: 13684

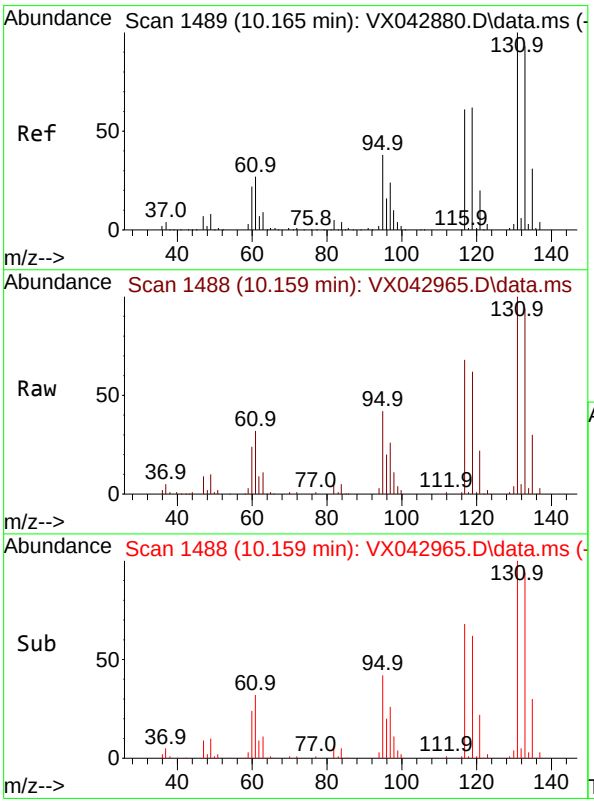
Ion	Ratio	Lower	Upper
112	100		
114	30.0	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

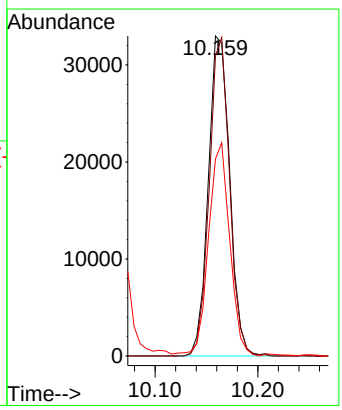
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

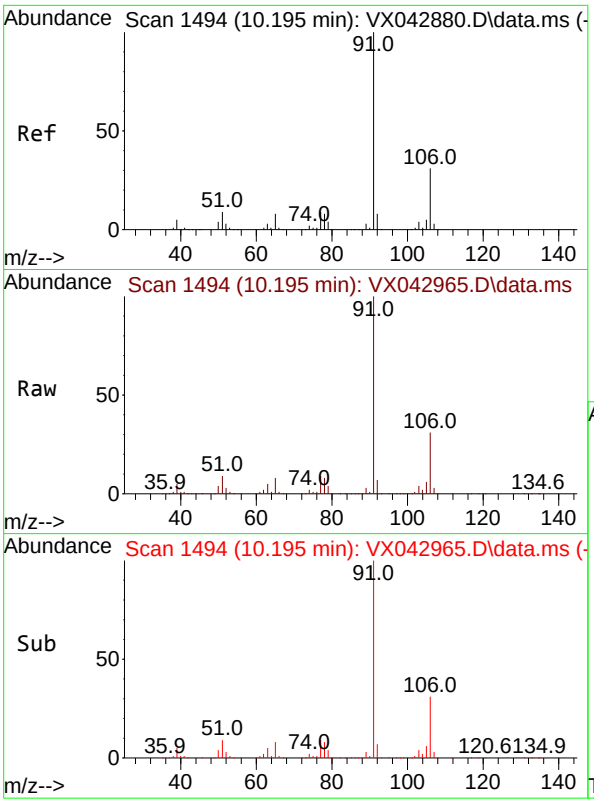


#66
1,1,1,2-Tetrachloroethane
Concen: 19.800 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.006 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion:131 Resp: 47638

Ion	Ratio	Lower	Upper
131	100		
133	94.4	47.1	141.4
119	65.9	32.2	96.6





#67
Ethyl Benzene
Concen: 19.887 ug/l
RT: 10.195 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

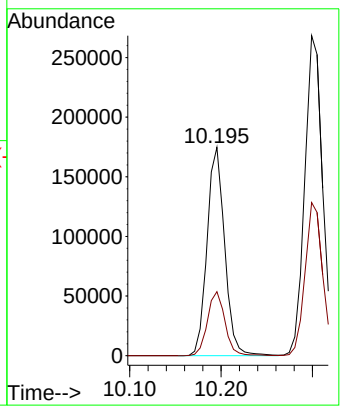
Tgt Ion: 91 Resp: 23340

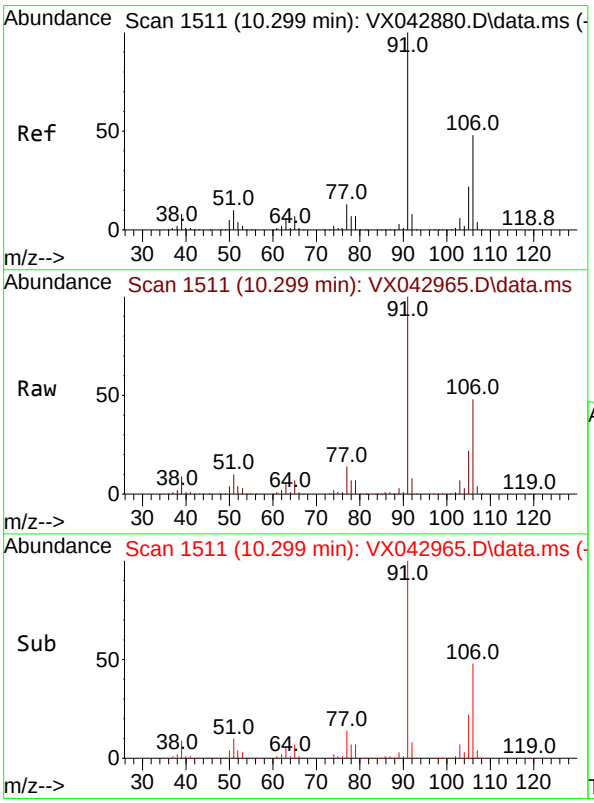
Ion	Ratio	Lower	Upper
91	100		
106	30.7	24.9	37.3

Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

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

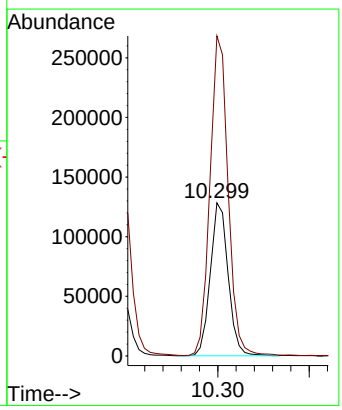


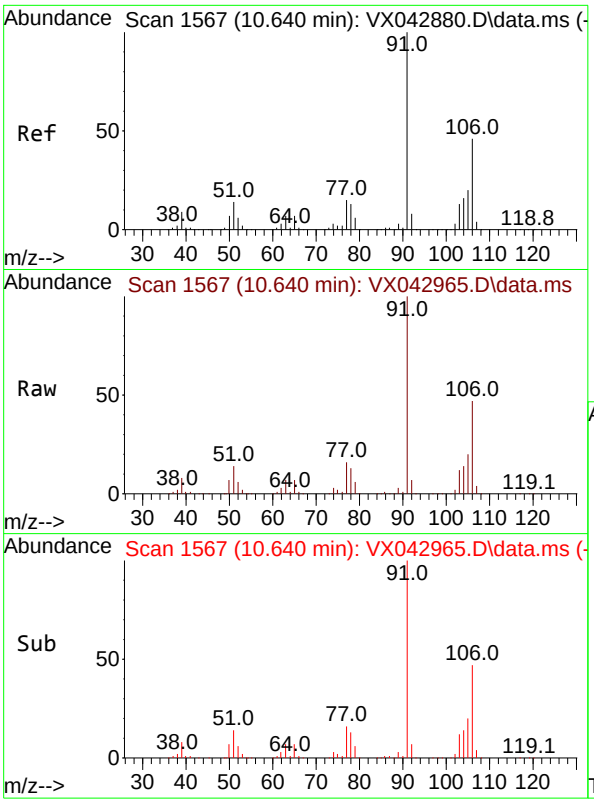


#68
m/p-Xylenes
Concen: 38.669 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion:106 Resp: 173265

Ion	Ratio	Lower	Upper
106	100		
91	213.7	165.5	248.3

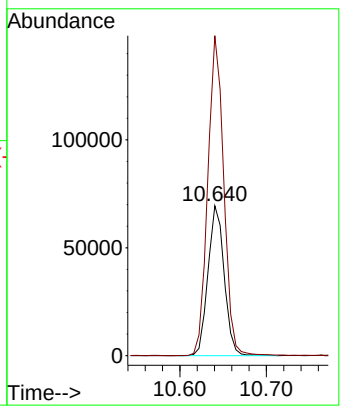




#69
o-Xylene
Concen: 20.137 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion:106 Resp: 9038

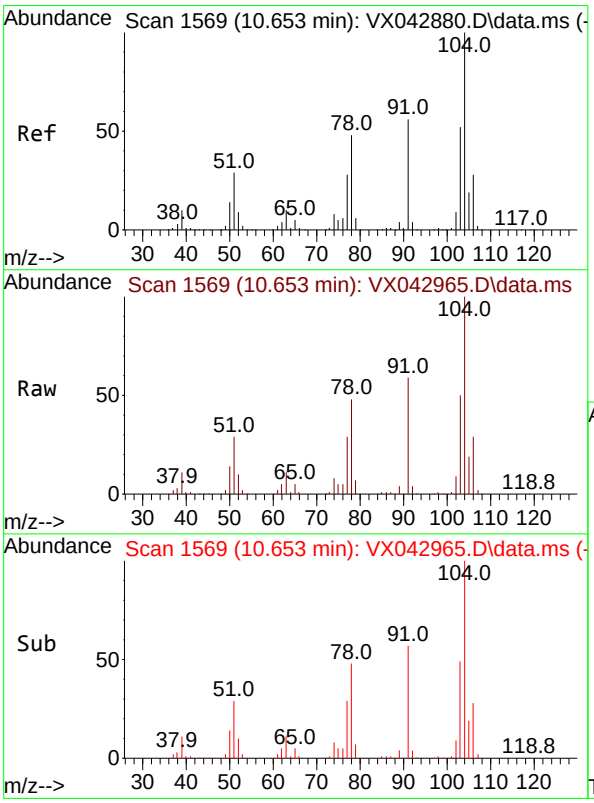
Ion	Ratio	Lower	Upper
106	100		
91	211.2	108.9	326.8



Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

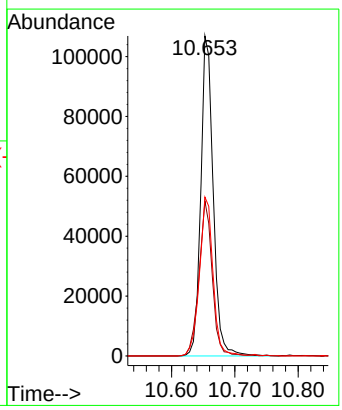
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

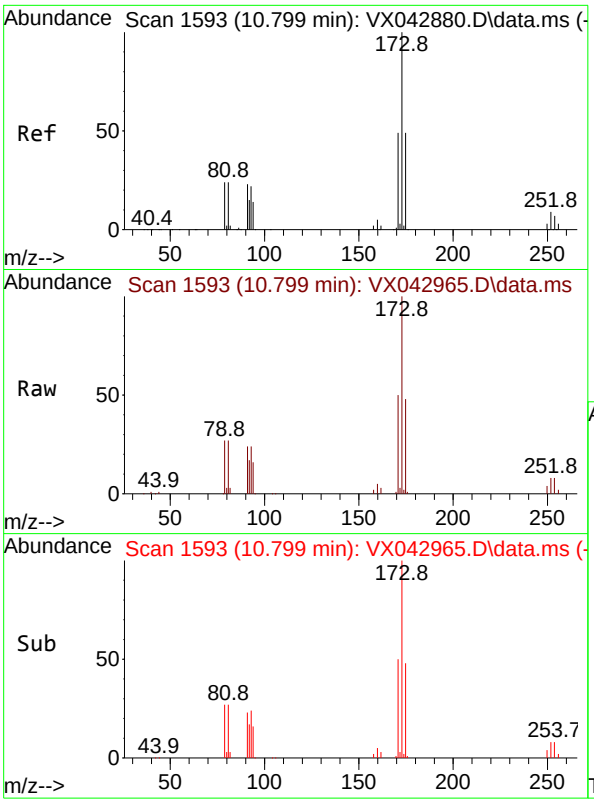


#70
Styrene
Concen: 20.331 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion:104 Resp: 146747

Ion	Ratio	Lower	Upper
104	100		
78	51.7	43.6	65.4
103	54.0	43.6	65.4

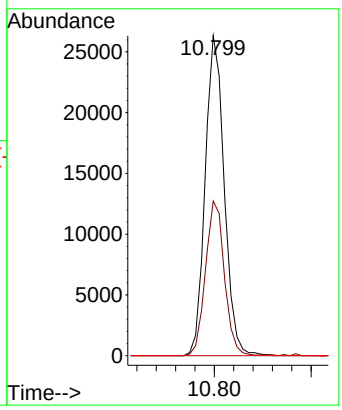




#71
Bromoform
Concen: 18.674 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion:173 Resp: 3608

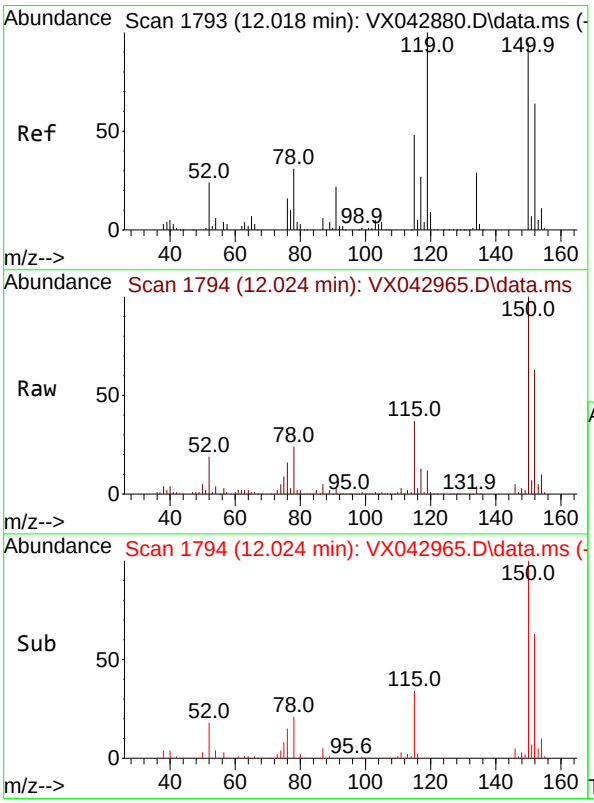
Ion	Ratio	Lower	Upper
173	100		
175	48.0	24.1	72.4
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

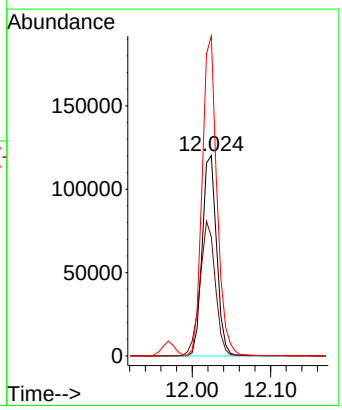
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

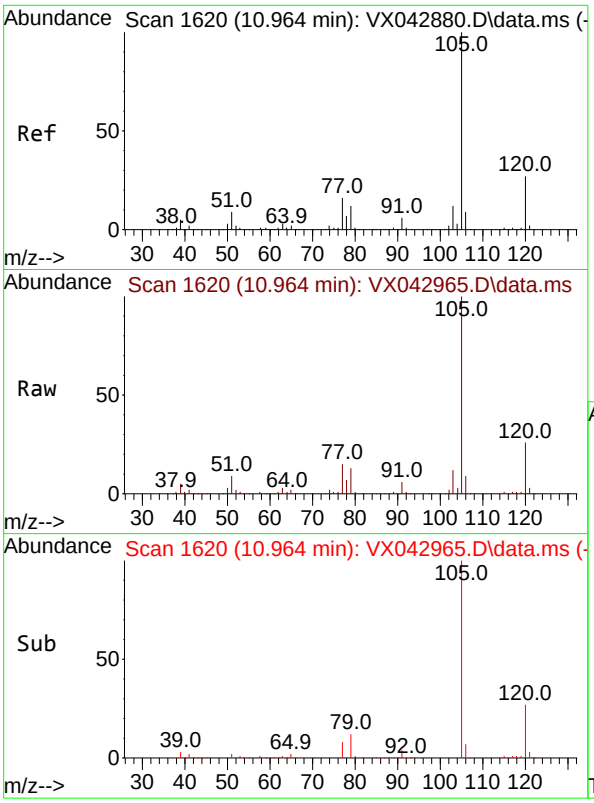


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion:152 Resp: 153912

Ion	Ratio	Lower	Upper
152	100		
115	72.0	43.3	129.9
150	163.2	0.0	345.0





#73
Isopropylbenzene
Concen: 20.201 ug/l
RT: 10.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

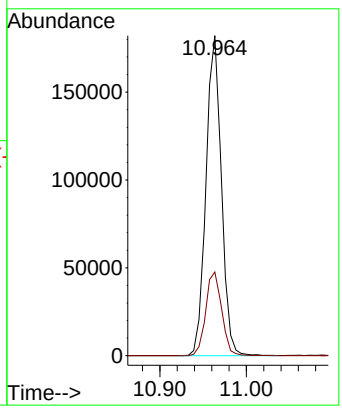
Tgt Ion:105 Resp: 22478

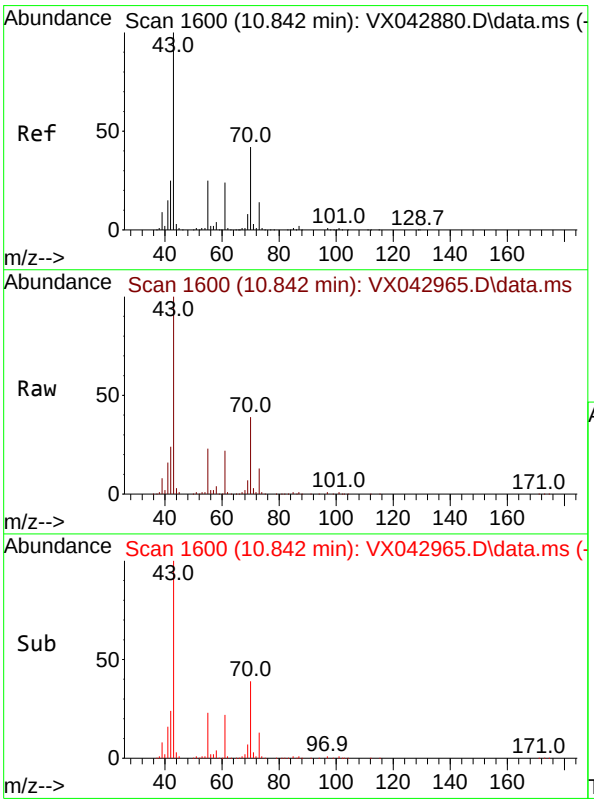
Ion	Ratio	Lower	Upper
105	100		
120	27.0	12.9	38.6

Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

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

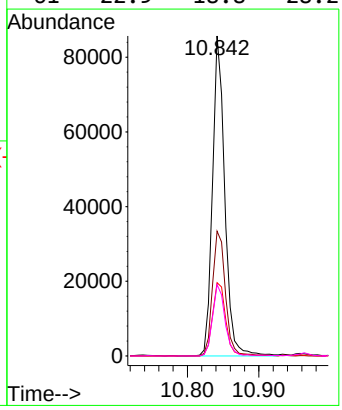


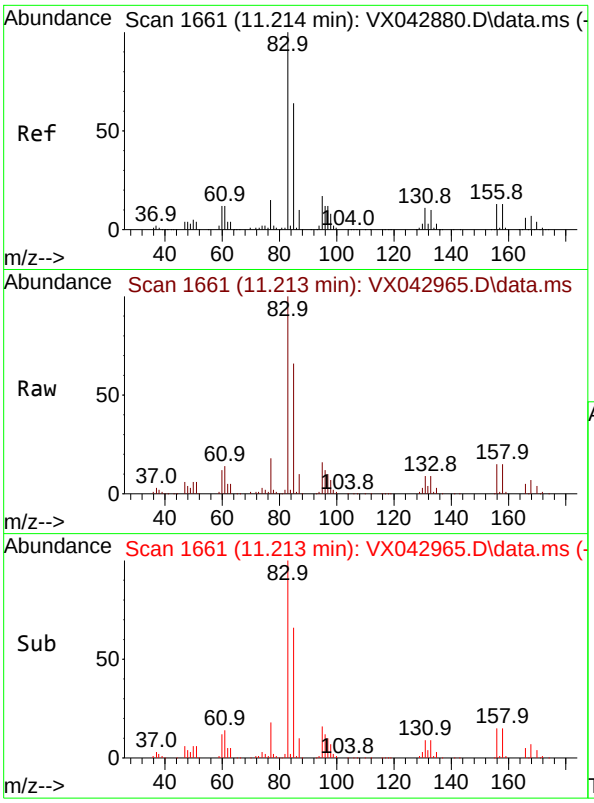


#74
N-amyl acetate
Concen: 20.469 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 43 Resp: 102488

Ion	Ratio	Lower	Upper
43	100		
70	41.2	32.9	49.3
55	24.6	19.3	28.9
61	22.9	18.8	28.2





#75
1,1,2,2-Tetrachloroethane
Concen: 19.709 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

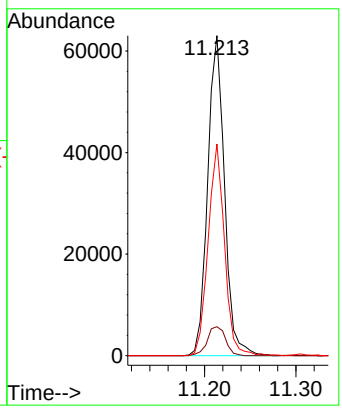
Tgt Ion: 83 Resp: 8034

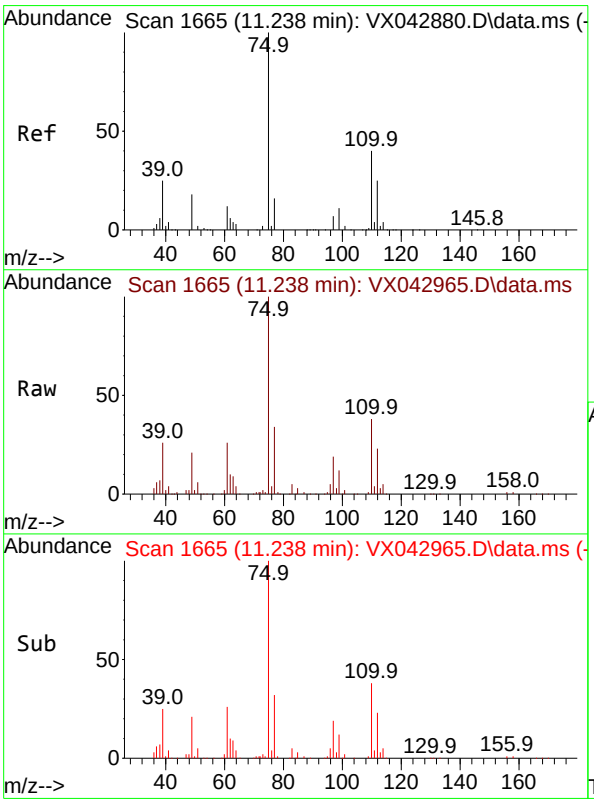
Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.3	15.8
85	64.4	32.0	96.2

Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

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

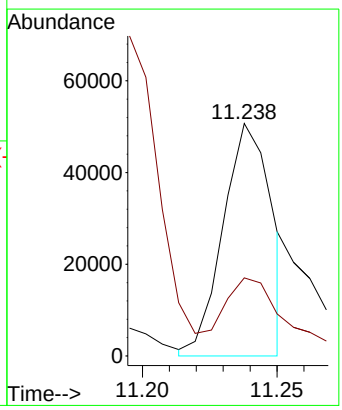


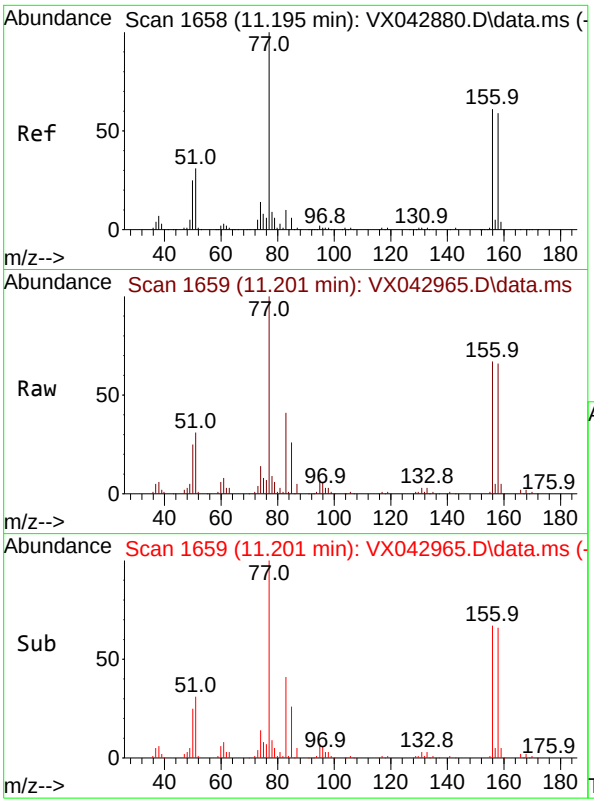


#76
1,2,3-Trichloropropane
Concen: 18.392 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 75 Resp: 63663

Ion	Ratio	Lower	Upper
75	100		
77	44.2	19.1	57.5





#77
Bromobenzene
Concen: 19.715 ug/l
RT: 11.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

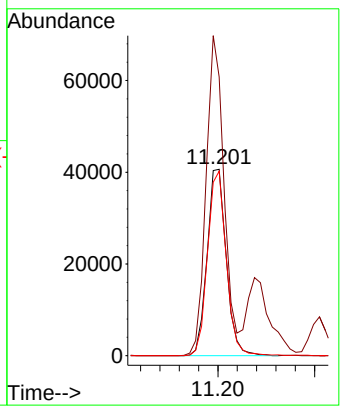
Tgt Ion:156 Resp: 5580

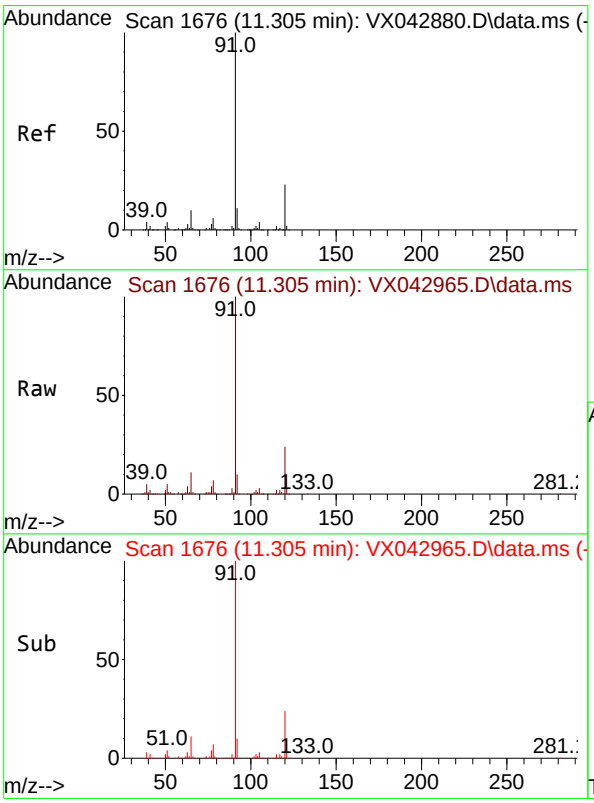
Ion	Ratio	Lower	Upper
156	100		
77	160.0	88.4	265.3
158	96.9	48.0	144.0

Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

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

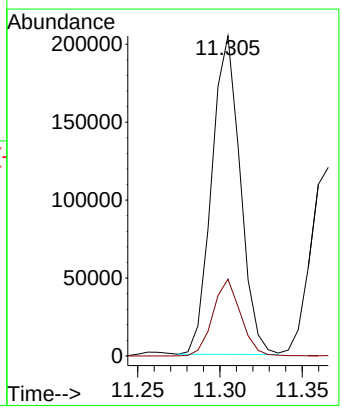


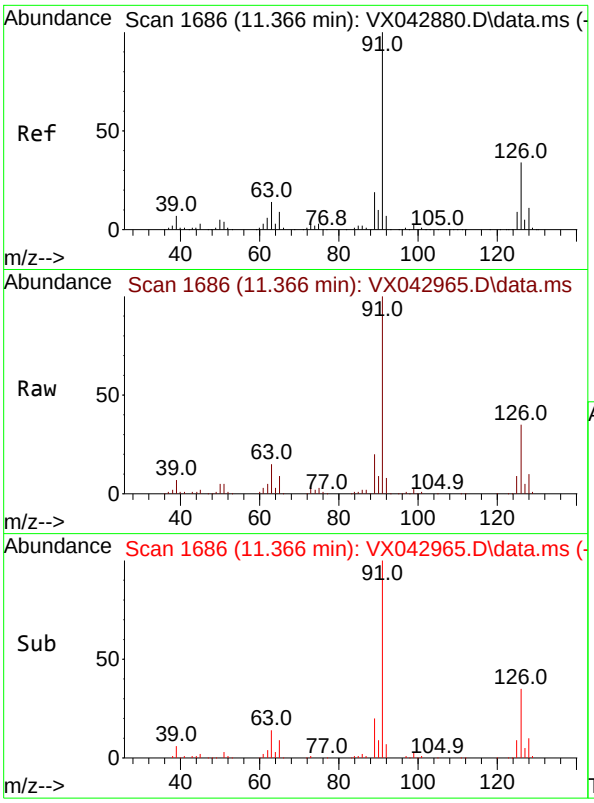


#78
n-propylbenzene
Concen: 19.946 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 91 Resp: 246537

Ion	Ratio	Lower	Upper
91	100		
120	23.4	11.5	34.4





#79
2-Chlorotoluene
Concen: 19.829 ug/l
RT: 11.366 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

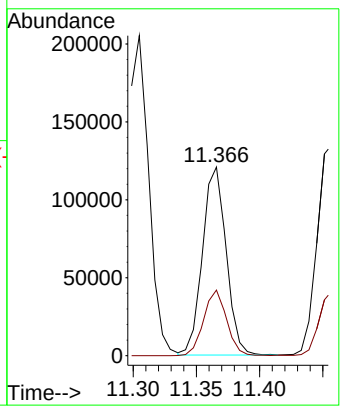
Tgt Ion: 91 Resp: 15709

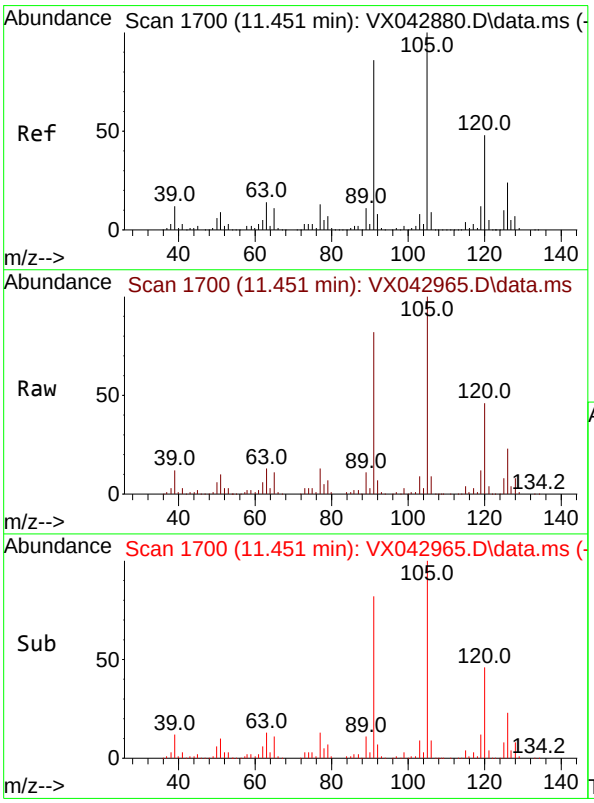
Ion	Ratio	Lower	Upper
91	100		
126	34.0	16.3	48.8

Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

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

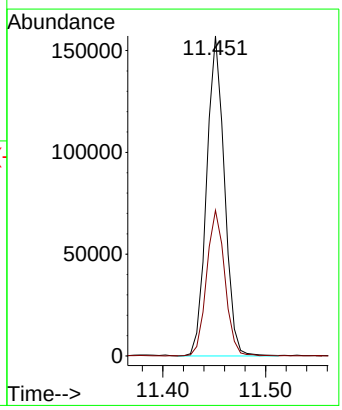


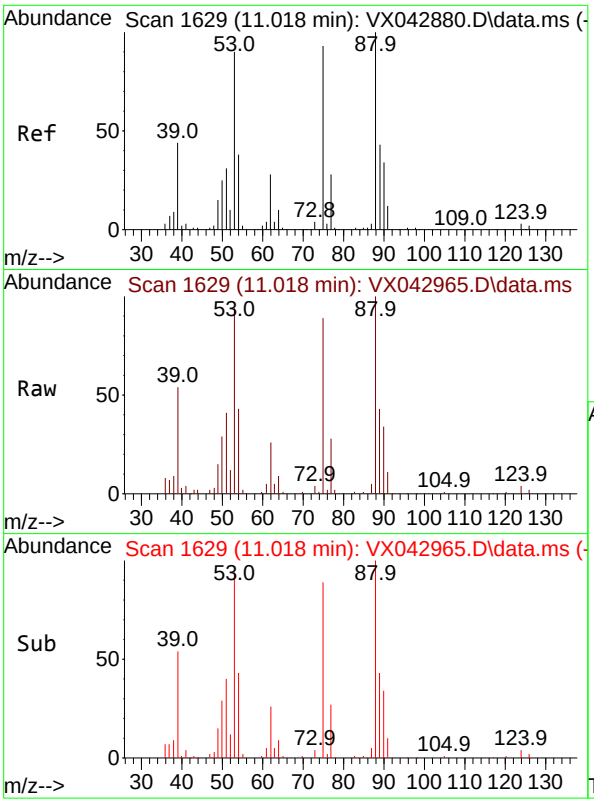


#80
1,3,5-Trimethylbenzene
Concen: 20.532 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion:105 Resp: 189183

Ion	Ratio	Lower	Upper
105	100		
120	46.7	24.1	72.3





#81
trans-1,4-Dichloro-2-butene
Concen: 17.573 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

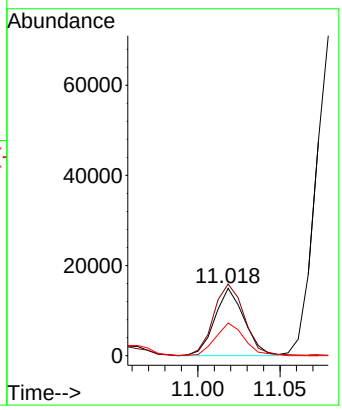
Tgt Ion: 75 Resp: 1870

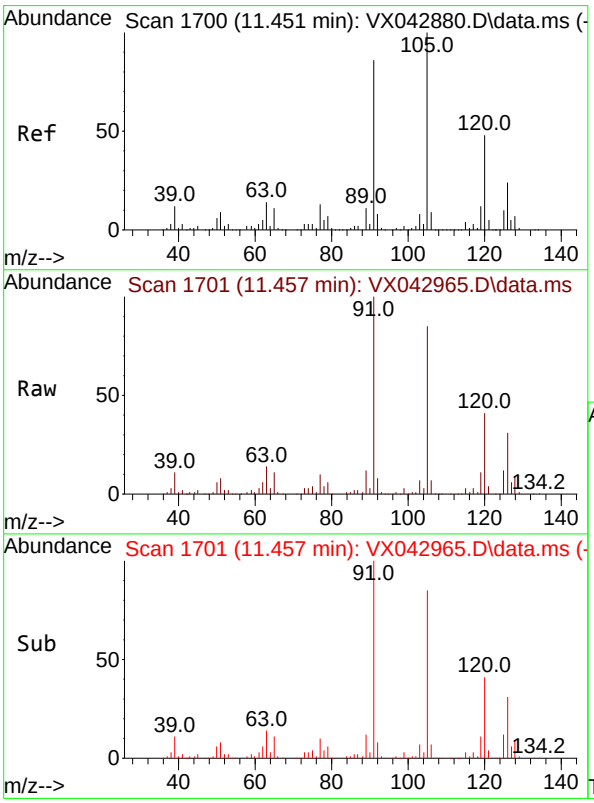
Ion	Ratio	Lower	Upper
75	100		
53	111.5	90.5	135.7
89	47.4	36.9	55.3

Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

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

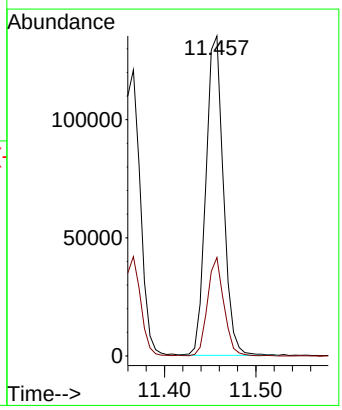


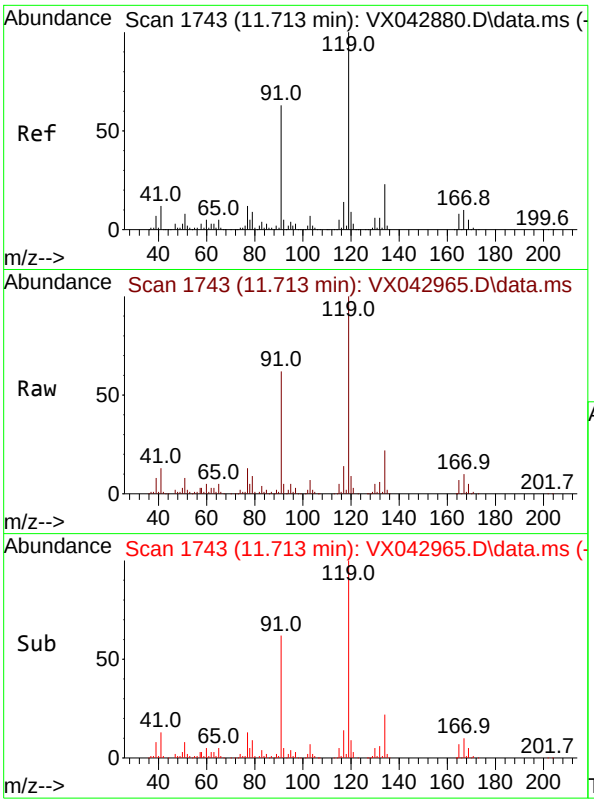


#82
4-Chlorotoluene
Concen: 20.082 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 91 Resp: 178823

Ion	Ratio	Lower	Upper
91	100		
126	29.1	14.2	42.6

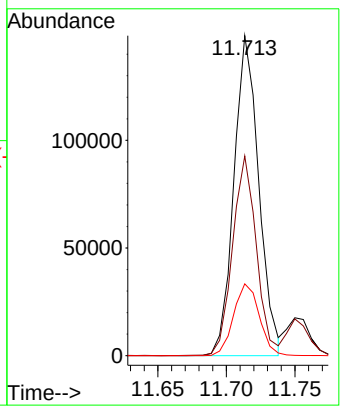




#83
tert-Butylbenzene
Concen: 19.833 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion:119 Resp: 18779

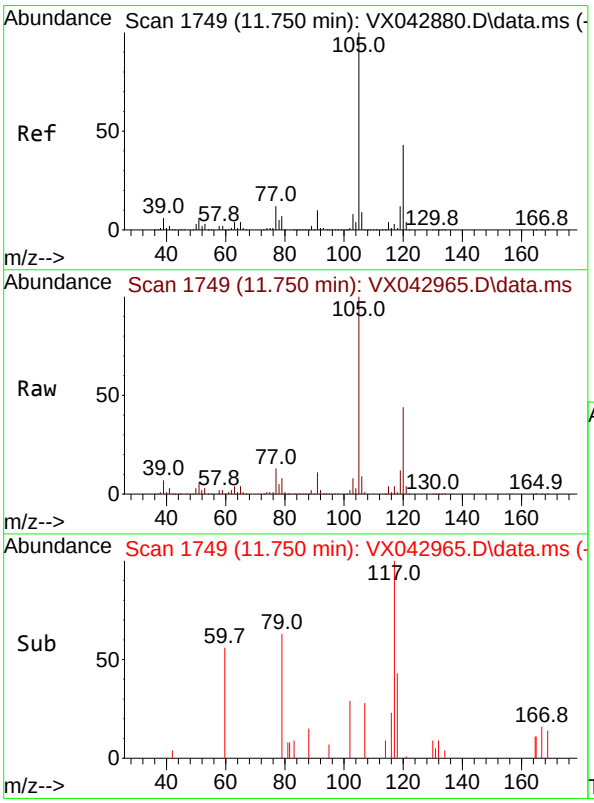
Ion	Ratio	Lower	Upper
119	100		
91	59.9	31.2	93.6
134	23.3	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

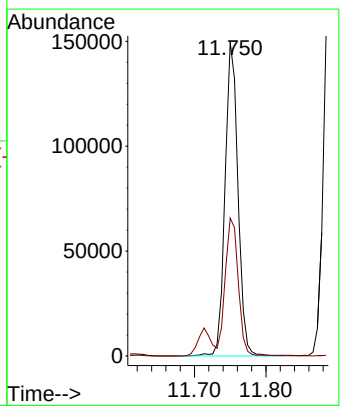
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

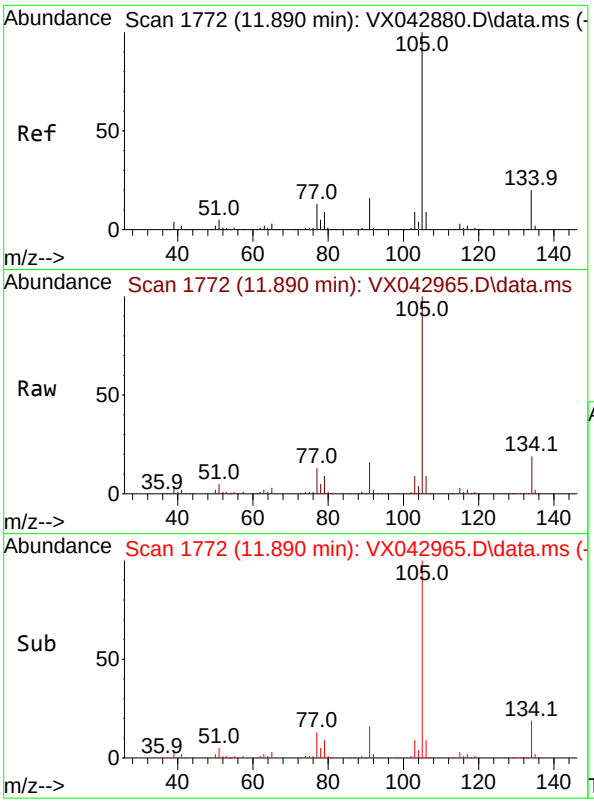


#84
1,2,4-Trimethylbenzene
Concen: 20.246 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion:105 Resp: 187803

Ion	Ratio	Lower	Upper
105	100		
120	44.1	21.2	63.6





#85
sec-Butylbenzene
Concen: 20.631 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

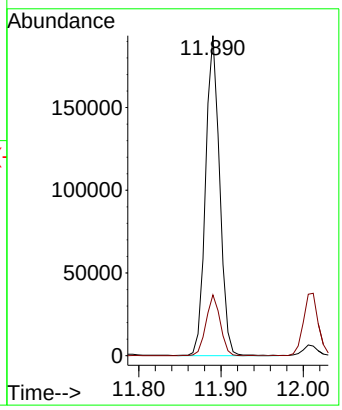
Tgt Ion:105 Resp: 23003

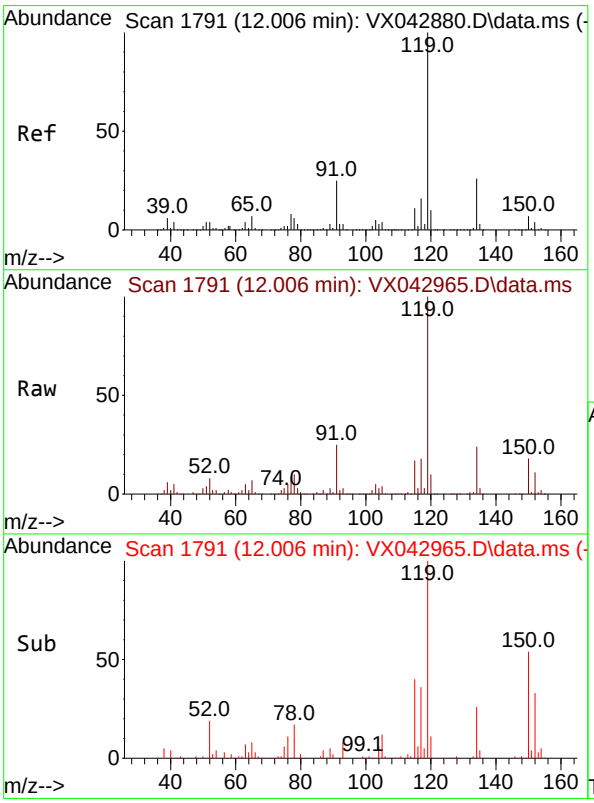
Ion	Ratio	Lower	Upper
105	100		
134	19.1	9.8	29.4

Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

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

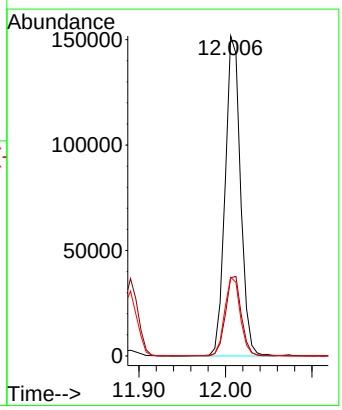


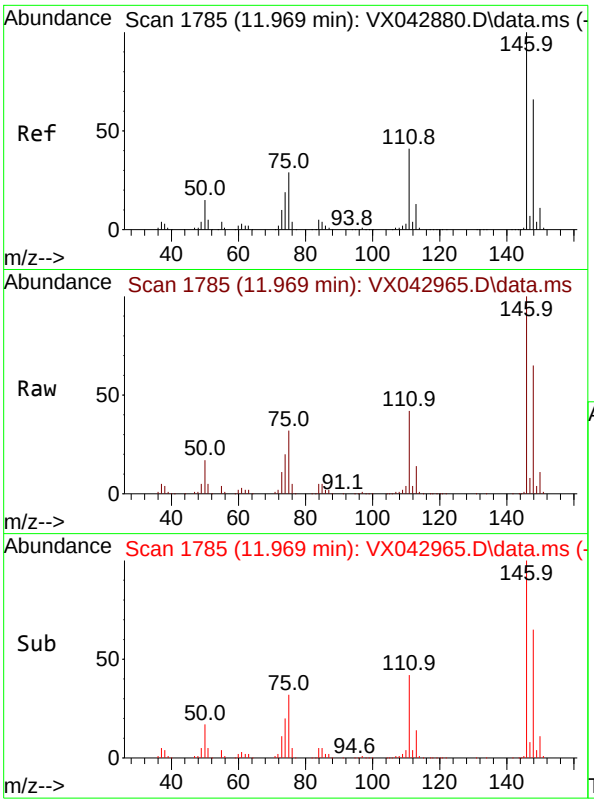


#86
p-Isopropyltoluene
Concen: 20.147 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion:119 Resp: 186636

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.8	38.3
91	25.3	13.1	39.3

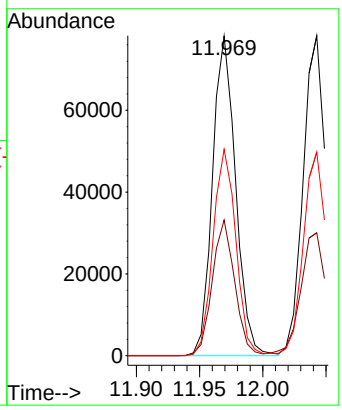




#87
1,3-Dichlorobenzene
Concen: 19.356 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion:146 Resp: 9915

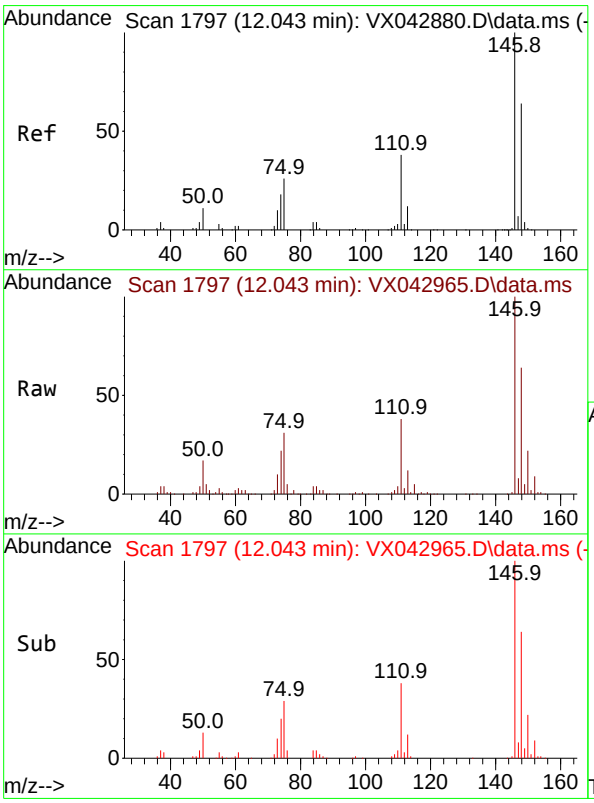
Ion	Ratio	Lower	Upper
146	100		
111	41.2	22.1	66.1
148	64.2	31.8	95.3



Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

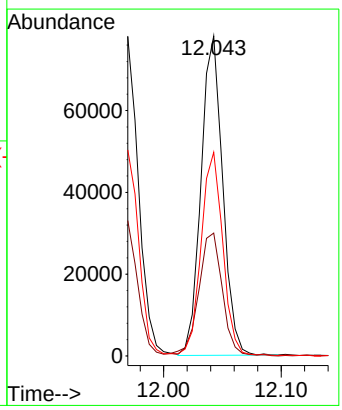
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

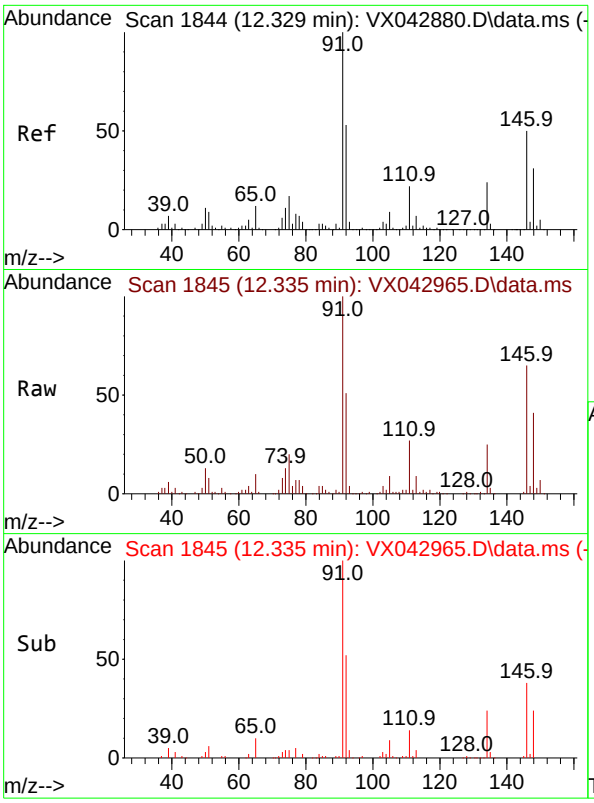


#88
1,4-Dichlorobenzene
Concen: 19.017 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion:146 Resp: 99856

Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.3	63.7
148	63.8	31.8	95.4

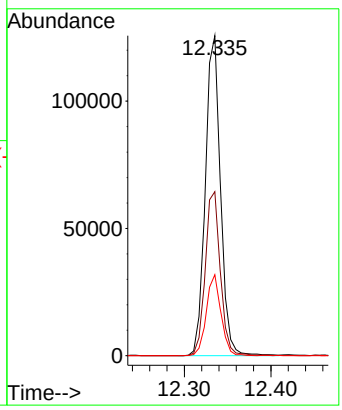




#89
n-Butylbenzene
Concen: 19.144 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 91 Resp: 15299

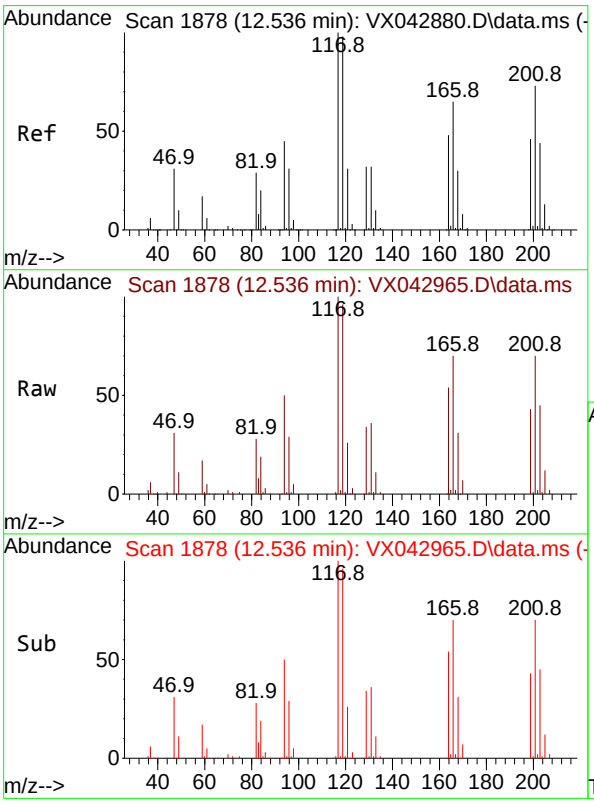
Ion	Ratio	Lower	Upper
91	100		
92	51.1	27.4	82.0
134	24.4	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

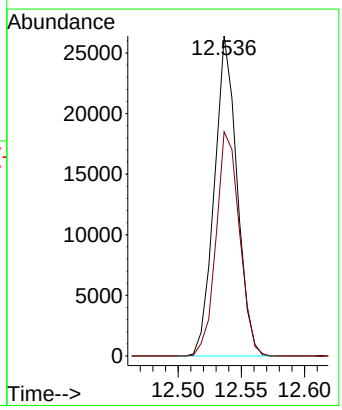
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

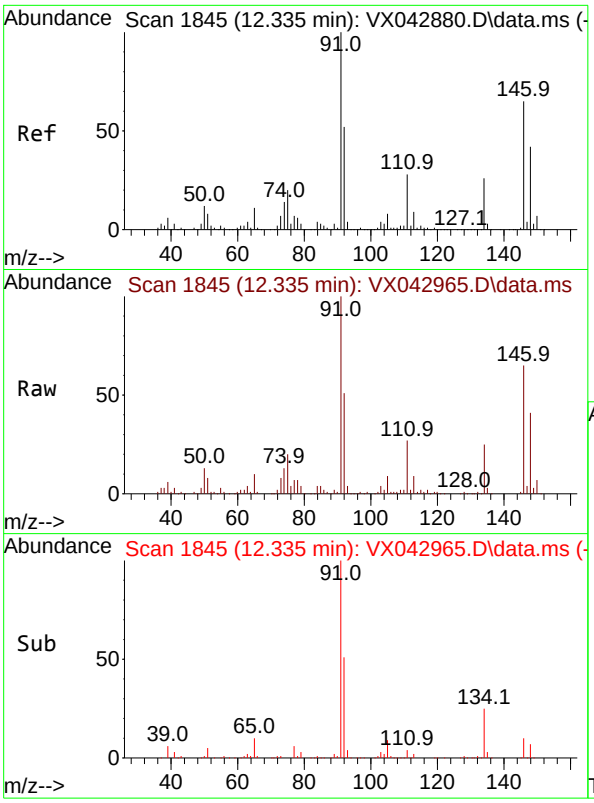


#90
Hexachloroethane
Concen: 19.351 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion:117 Resp: 32790

Ion	Ratio	Lower	Upper
117	100		
201	72.5	32.9	98.6

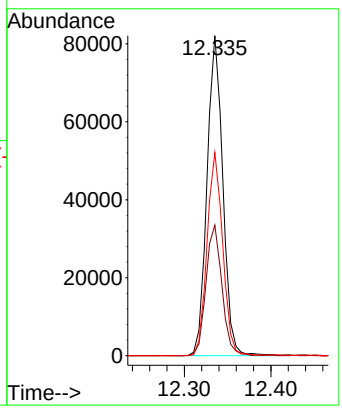




#91
1,2-Dichlorobenzene
Concen: 20.303 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion:146 Resp: 10415

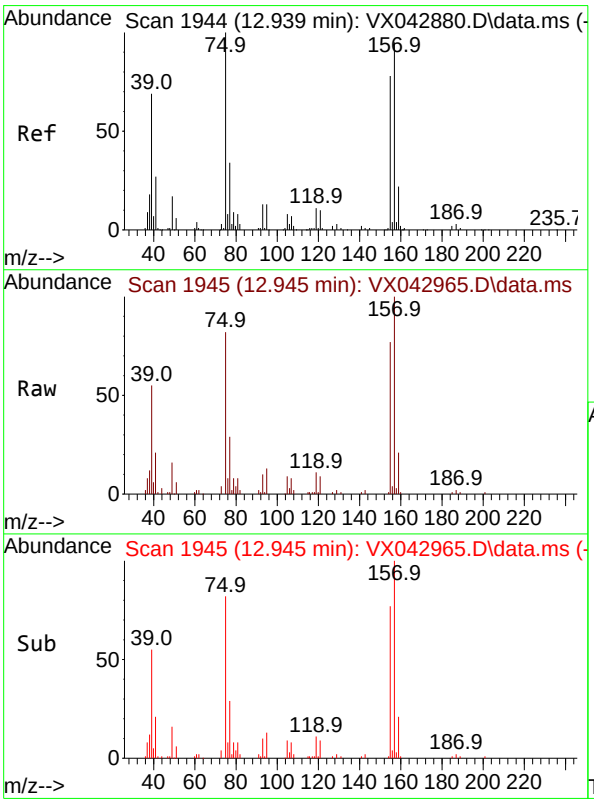
Ion	Ratio	Lower	Upper
146	100		
111	41.1	22.4	67.0
148	62.8	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

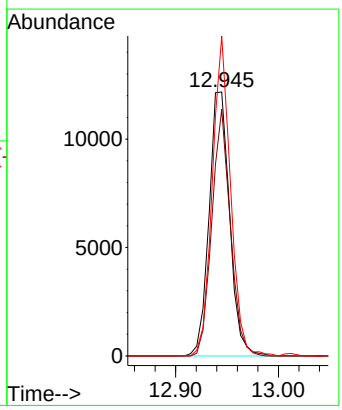
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

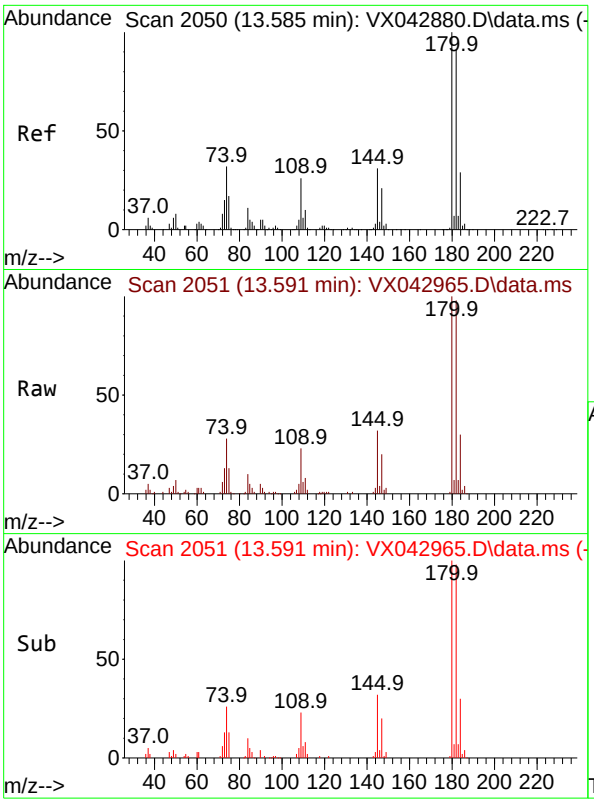


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.931 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion: 75 Resp: 16957

Ion	Ratio	Lower	Upper
75	100		
155	83.9	36.1	108.5
157	107.2	44.9	134.7

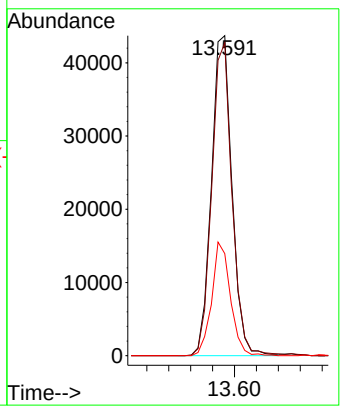




#93
1,2,4-Trichlorobenzene
Concen: 18.200 ug/l
RT: 13.591 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion:180 Resp: 5695

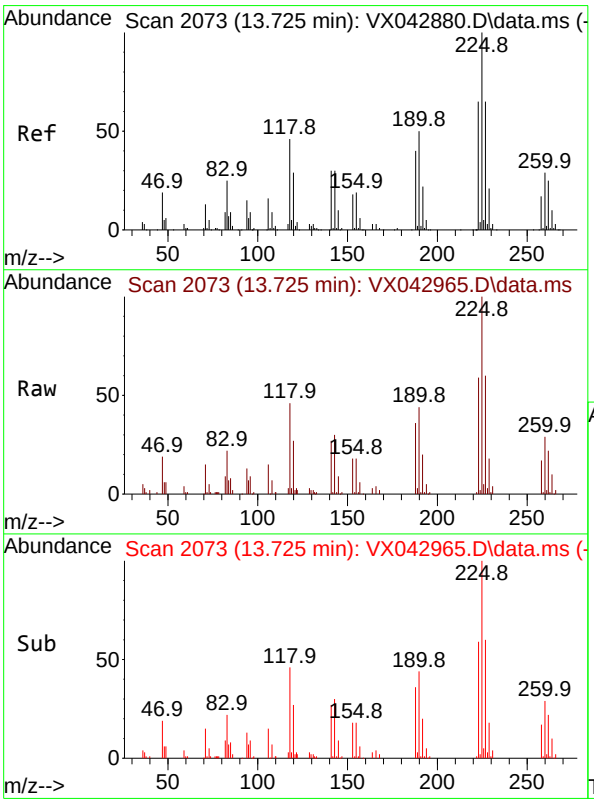
Ion	Ratio	Lower	Upper
180	100		
182	96.1	48.3	144.8
145	32.4	18.0	54.0



Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

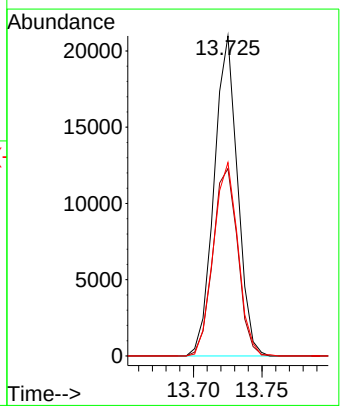
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

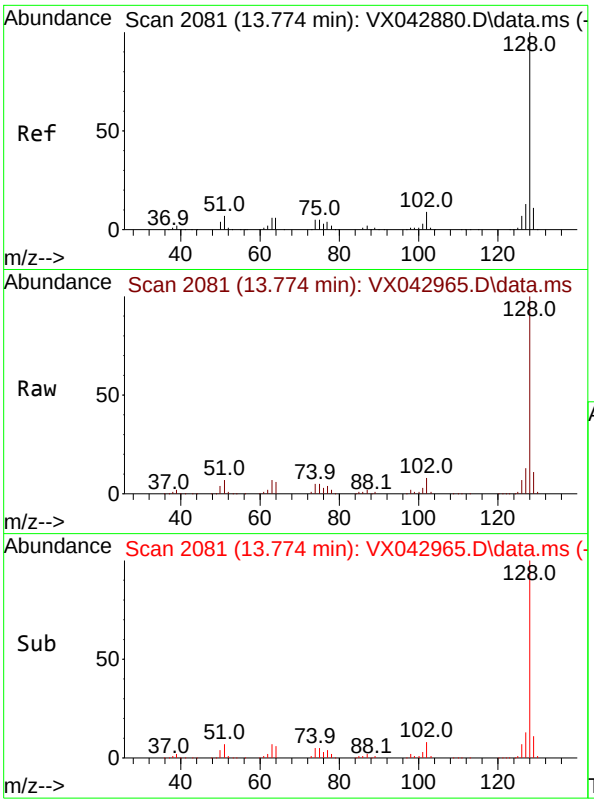


#94
Hexachlorobutadiene
Concen: 18.802 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion:225 Resp: 24952

Ion	Ratio	Lower	Upper
225	100		
223	62.1	31.1	93.2
227	63.3	32.5	97.5

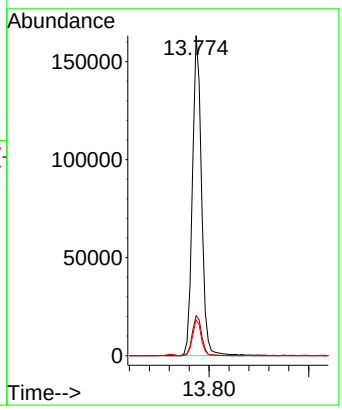




#95
Naphthalene
Concen: 19.114 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion:128 Resp: 20696

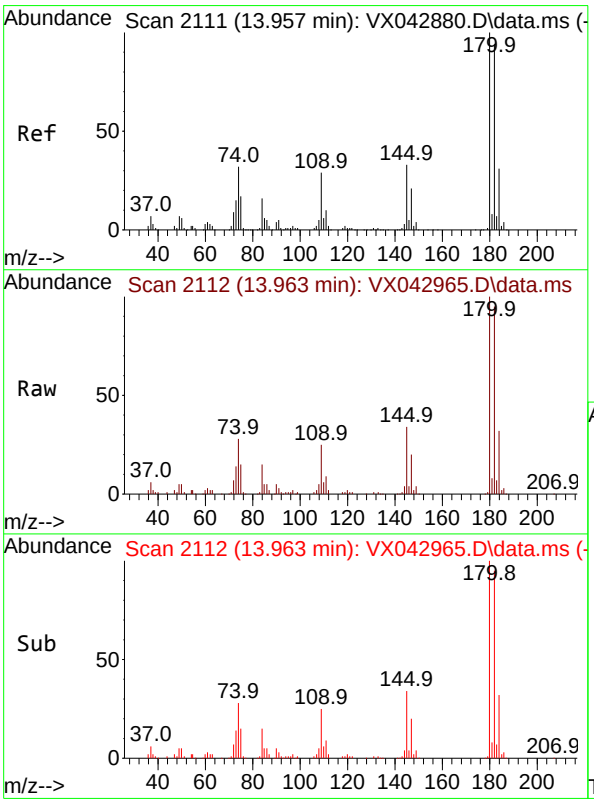
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	10.7	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VX0808WBS02

Manual Integrations
APPROVED

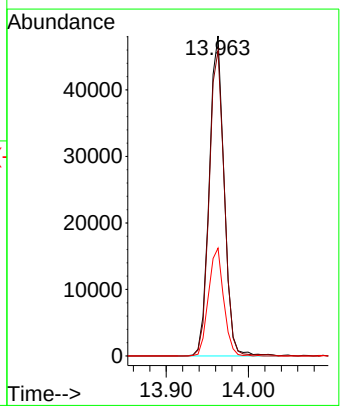
Reviewed By :John Carlone 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024



#96
1,2,3-Trichlorobenzene
Concen: 19.251 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX042965.D
Acq: 09 Aug 2024 02:34

Tgt Ion:180 Resp: 60636

Ion	Ratio	Lower	Upper
180	100		
182	95.8	46.9	140.6
145	34.3	17.8	53.5



Raw Data: **VX042989.D**

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	VX0809WBS01	SDG No.:	P3457
Lab Sample ID:	VX0809WBS01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX042989.D	1		08/09/24 12:15	VX080924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.2		0.21	1.00	ug/L
74-87-3	Chloromethane	19.8		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	19.5		0.34	1.00	ug/L
74-83-9	Bromomethane	20.3		1.40	5.00	ug/L
75-00-3	Chloroethane	19.6		0.56	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.3		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.1		0.26	1.00	ug/L
67-64-1	Acetone	100		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	17.0		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.5		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	19.3		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.1		0.23	1.00	ug/L
110-82-7	Cyclohexane	19.4		1.60	5.00	ug/L
78-93-3	2-Butanone	110		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.4		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.9		0.25	1.00	ug/L
67-66-3	Chloroform	19.2		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.0		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	18.7		0.19	1.00	ug/L
71-43-2	Benzene	19.5		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.9		0.24	1.00	ug/L
79-01-6	Trichloroethene	19.1		0.32	1.00	ug/L
75-27-4	Bromodichloromethane	19.2		0.24	1.00	ug/L
108-88-3	Toluene	19.5		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.8		0.21	1.00	ug/L
124-48-1	Dibromochloromethane	18.6		0.18	1.00	ug/L
127-18-4	Tetrachloroethene	18.4		0.25	1.00	ug/L
108-90-7	Chlorobenzene	18.9		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	19.4		0.16	1.00	ug/L

Raw Data: **VX042989.D**

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	VX0809WBS01	SDG No.:	P3457
Lab Sample ID:	VX0809WBS01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX042989.D	1		08/09/24 12:15	VX080924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
179601-23-1	m/p-Xylenes	38.5		0.31	2.00	ug/L
1330-20-7	Total Xylenes	57.7		0.45	3.00	ug/L
95-47-6	o-Xylene	19.2		0.14	1.00	ug/L
98-82-8	Isopropylbenzene	20.0		0.13	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.7		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.1		0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.8		70 (74) - 130 (125)	108%	SPK: 50
1868-53-7	Dibromofluoromethane	52.2		70 (75) - 130 (124)	104%	SPK: 50
2037-26-5	Toluene-d8	51.1		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.2		70 (77) - 130 (121)	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	233000	5.55			
540-36-3	1,4-Difluorobenzene	393000	6.763			
3114-55-4	Chlorobenzene-d5	348000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	164000	12.024			

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_X\Data\VX080924\
Data File : VX042989.D
Acq On : 09 Aug 2024 12:15
Operator : JC/MD
Sample : VX0809WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 09 16:26:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	232797	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	392597	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	347845	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	163980	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	171840	53.770	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 107.540%			
35) Dibromofluoromethane	5.385	113	134002	52.202	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.400%			
50) Toluene-d8	8.647	98	465857	51.121	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 102.240%			
62) 4-Bromofluorobenzene	11.079	95	167747	51.225	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.460%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	48055	19.151	ug/l	96
3) Chloromethane	1.301	50	54114	19.793	ug/l	98
4) Vinyl Chloride	1.374	62	50658	19.528	ug/l	95
5) Bromomethane	1.599	94	31810	20.262	ug/l	96
6) Chloroethane	1.666	64	29037	19.649	ug/l	99
7) Trichlorofluoromethane	1.867	101	78719	19.513	ug/l	99
8) Diethyl Ether	2.136	74	28662	19.316	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.319	101	48912	19.284	ug/l	97
10) Methyl Iodide	2.441	142	52693	20.091	ug/l	95
11) Tert butyl alcohol	2.995	59	68669	108.026	ug/l #	92
12) 1,1-Dichloroethene	2.306	96	46495	18.120	ug/l	91
13) Acrolein	2.239	56	54501	86.982	ug/l	97
14) Allyl chloride	2.660	41	81952	21.137	ug/l	96
15) Acrylonitrile	3.068	53	165501	102.007	ug/l	99
16) Acetone	2.392	43	145177	104.733	ug/l	98
17) Carbon Disulfide	2.502	76	106071	16.987	ug/l	99
18) Methyl Acetate	2.709	43	87822	19.979	ug/l	98
19) Methyl tert-butyl Ether	3.123	73	168534	19.514	ug/l	97
20) Methylene Chloride	2.788	84	56817	19.116	ug/l	94
21) trans-1,2-Dichloroethene	3.087	96	49825	19.300	ug/l	93
22) Diisopropyl ether	3.770	45	175875	20.649	ug/l	93
23) Vinyl Acetate	3.727	43	1008894	104.366	ug/l	99
24) 1,1-Dichloroethane	3.611	63	98303	20.068	ug/l	100
25) 2-Butanone	4.568	43	232543	106.825	ug/l	98
26) 2,2-Dichloropropane	4.471	77	75952	25.221	ug/l	98
27) cis-1,2-Dichloroethene	4.489	96	60965	19.913	ug/l	91
28) Bromochloromethane	4.904	49	36524	19.431	ug/l	95
29) Tetrahydrofuran	5.019	42	147513	100.282	ug/l	98
30) Chloroform	5.093	83	98560	19.219	ug/l	95
31) Cyclohexane	5.470	56	77658	19.420	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	85547	18.950	ug/l	98
36) 1,1-Dichloropropene	5.690	75	63902	18.361	ug/l	98
37) Ethyl Acetate	4.727	43	85958	19.740	ug/l	99
38) Carbon Tetrachloride	5.678	117	72173	18.371	ug/l	91
39) Methylcyclohexane	7.379	83	77173	18.653	ug/l	95
40) Benzene	6.037	78	210456	19.484	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080924\
Data File : VX042989.D
Acq On : 09 Aug 2024 12:15
Operator : JC/MD
Sample : VX0809WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 09 16:26:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.934	41	44382	19.788	ug/l		93
42) 1,2-Dichloroethane	6.092	62	78041	19.863	ug/l		99
43) Isopropyl Acetate	6.348	43	126733	19.679	ug/l		99
44) Trichloroethene	7.129	130	51764	19.072	ug/l		94
45) 1,2-Dichloropropane	7.434	63	52928	19.317	ug/l		98
46) Dibromomethane	7.586	93	38437	19.100	ug/l		95
47) Bromodichloromethane	7.824	83	71688	19.176	ug/l		98
48) Methyl methacrylate	7.696	41	60657	19.643	ug/l		92
49) 1,4-Dioxane	7.671	88	27115	395.558	ug/l	#	90
51) 4-Methyl-2-Pentanone	8.574	43	445710	103.324	ug/l		100
52) Toluene	8.720	92	127942	19.527	ug/l		94
53) t-1,3-Dichloropropene	8.982	75	69614	20.144	ug/l		100
54) cis-1,3-Dichloropropene	8.366	75	77594	20.331	ug/l		90
55) 1,1,2-Trichloroethane	9.153	97	52870	19.849	ug/l		94
56) Ethyl methacrylate	9.122	69	83087	19.385	ug/l		96
57) 1,3-Dichloropropane	9.311	76	85953	19.699	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.244	63	192128	95.108	ug/l		98
59) 2-Hexanone	9.433	43	342730	102.535	ug/l		98
60) Dibromochloromethane	9.519	129	54279	18.551	ug/l		98
61) 1,2-Dibromoethane	9.610	107	55746	19.809	ug/l		100
64) Tetrachloroethene	9.275	164	44408	18.361	ug/l		97
65) Chlorobenzene	10.079	112	139338	18.877	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	49042	19.268	ug/l		97
67) Ethyl Benzene	10.195	91	241279	19.433	ug/l		99
68) m/p-Xylenes	10.299	106	182665	38.537	ug/l		100
69) o-Xylene	10.640	106	91386	19.246	ug/l		99
70) Styrene	10.659	104	151726	19.871	ug/l		98
71) Bromoform	10.799	173	37239	18.243	ug/l	#	97
73) Isopropylbenzene	10.963	105	237099	19.999	ug/l		99
74) N-amyl acetate	10.841	43	108640	20.366	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	84110	19.366	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	67139m	18.205	ug/l		
77) Bromobenzene	11.201	156	57114	18.938	ug/l		92
78) n-propylbenzene	11.305	91	260142	19.754	ug/l		100
79) 2-Chlorotoluene	11.366	91	166299	19.702	ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	194619	19.825	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	23161	20.421	ug/l		96
82) 4-Chlorotoluene	11.457	91	186137	19.620	ug/l		97
83) tert-Butylbenzene	11.713	119	197239	19.551	ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	198069	20.042	ug/l		99
85) sec-Butylbenzene	11.890	105	236791	19.933	ug/l		100
86) p-Isopropyltoluene	12.006	119	196392	19.899	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	103646	18.990	ug/l		97
88) 1,4-Dichlorobenzene	12.042	146	104558	18.690	ug/l		98
89) n-Butylbenzene	12.335	91	160900	18.897	ug/l		97
90) Hexachloroethane	12.536	117	33143	18.358	ug/l		89
91) 1,2-Dichlorobenzene	12.335	146	104598	19.138	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	18576	19.465	ug/l		90
93) 1,2,4-Trichlorobenzene	13.591	180	57646	17.292	ug/l		98
94) Hexachlorobutadiene	13.725	225	26406	18.676	ug/l		98
95) Naphthalene	13.774	128	213096	18.472	ug/l		100
96) 1,2,3-Trichlorobenzene	13.963	180	62152	18.521	ug/l		98

Sample Results: **VX042989.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080924\
Data File : VX042989.D
Acq On : 09 Aug 2024 12:15
Operator : JC/MD
Sample : VX0809WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 09 16:26:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

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

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

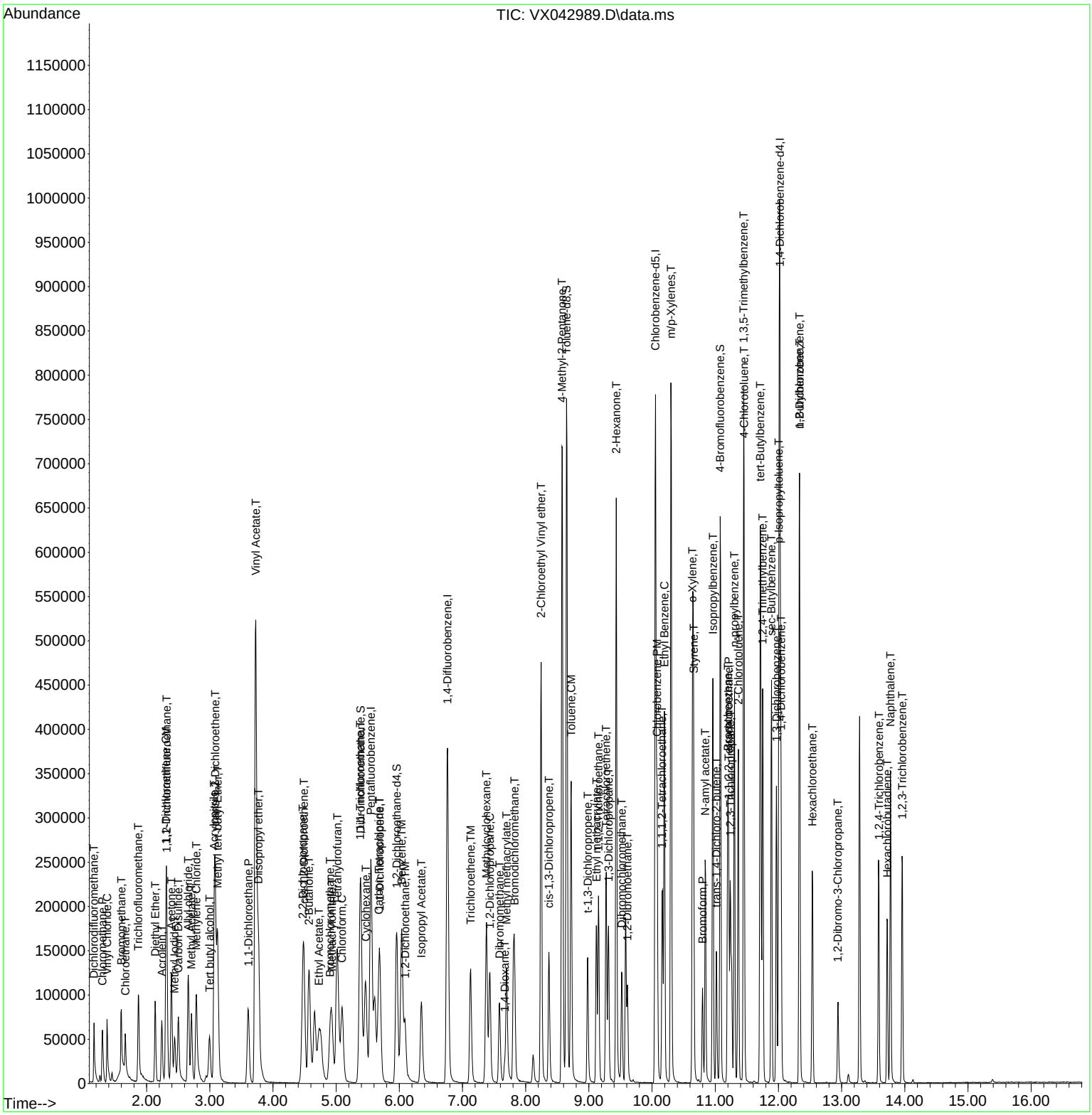
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080924\
Data File : VX042989.D
Acq On : 09 Aug 2024 12:15
Operator : JC/MD
Sample : VX0809WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

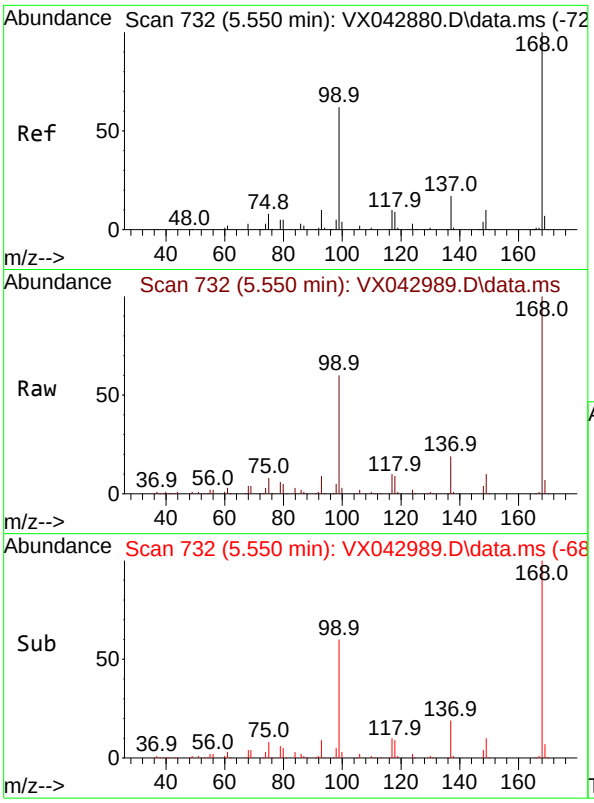
Quant Time: Aug 09 16:26:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X080724W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 07 02:55:22 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

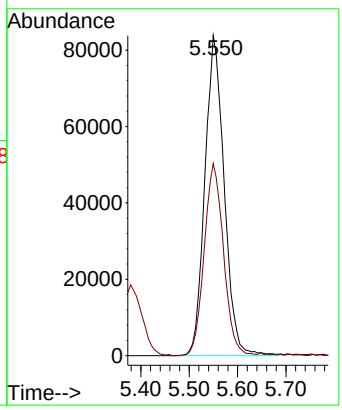




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion:168 Resp: 23279

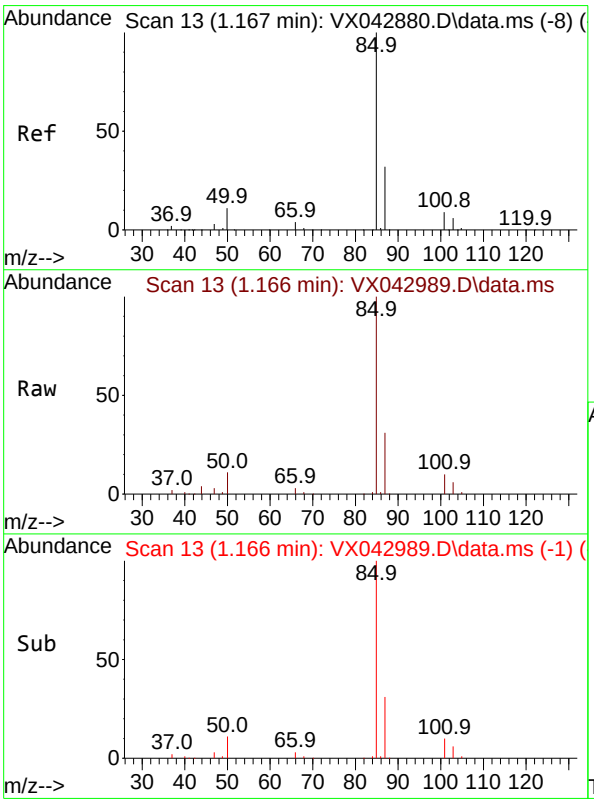
Ion	Ratio	Lower	Upper
168	100		
99	59.9	56.6	85.0



Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

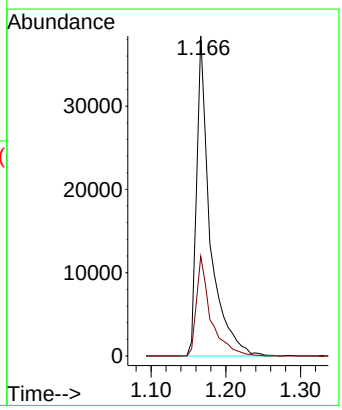
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

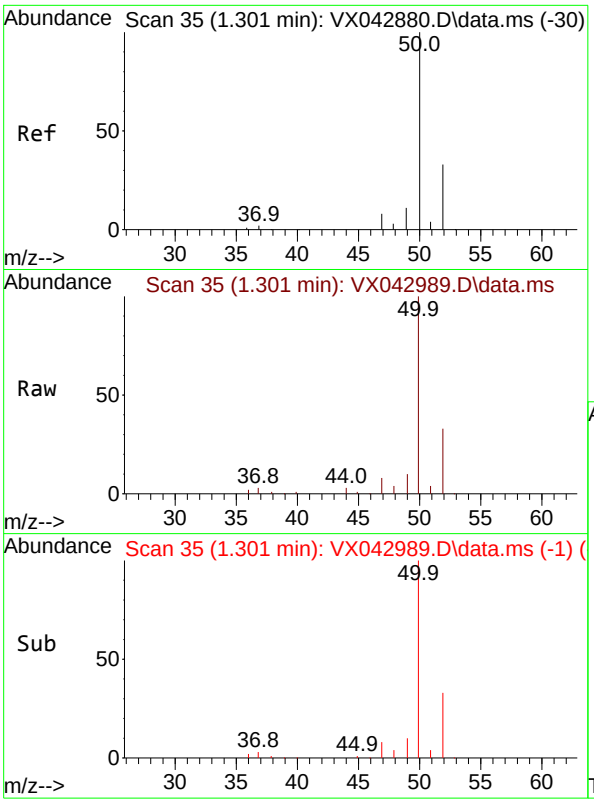


#2
Dichlorodifluoromethane
Concen: 19.151 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 85 Resp: 48055

Ion	Ratio	Lower	Upper
85	100		
87	31.2	16.7	50.1

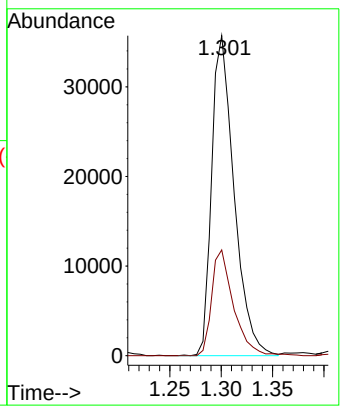




#3
Chloromethane
Concen: 19.793 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 50 Resp: 5411

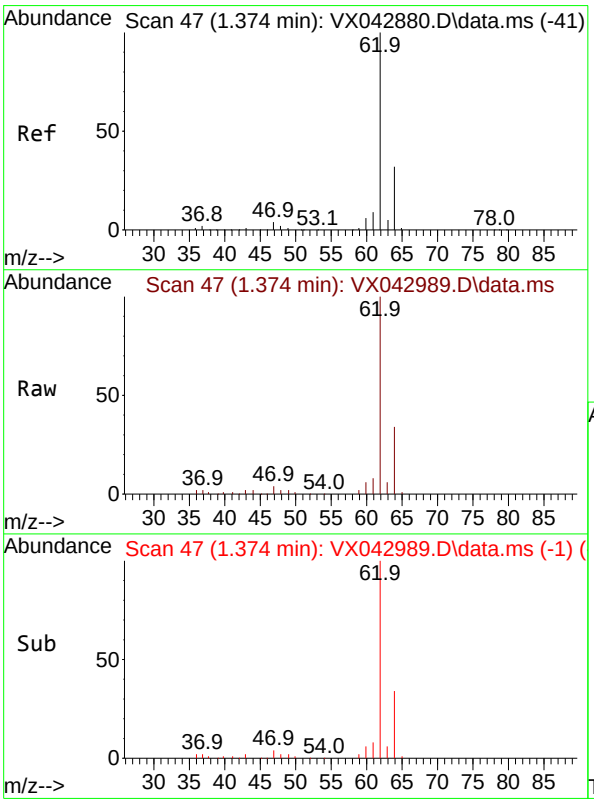
Ion	Ratio	Lower	Upper
50	100		
52	33.0	25.5	38.3



Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

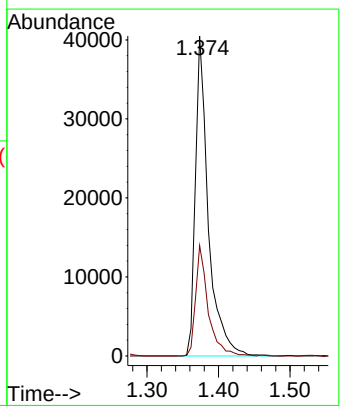
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

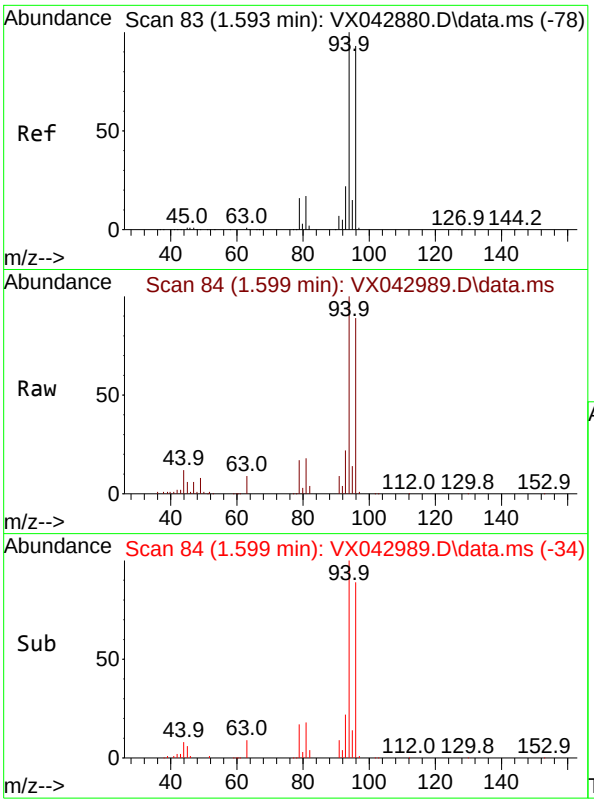


#4
Vinyl Chloride
Concen: 19.528 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 62 Resp: 50658

Ion	Ratio	Lower	Upper
62	100		
64	34.5	25.4	38.0

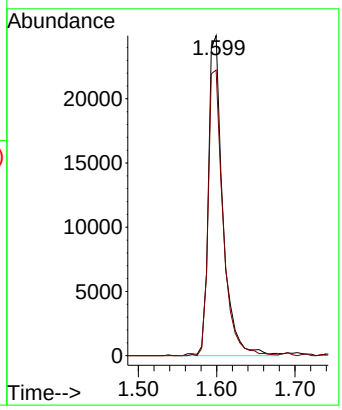




#5
Bromomethane
Concen: 20.262 ug/l
RT: 1.599 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 94 Resp: 3181

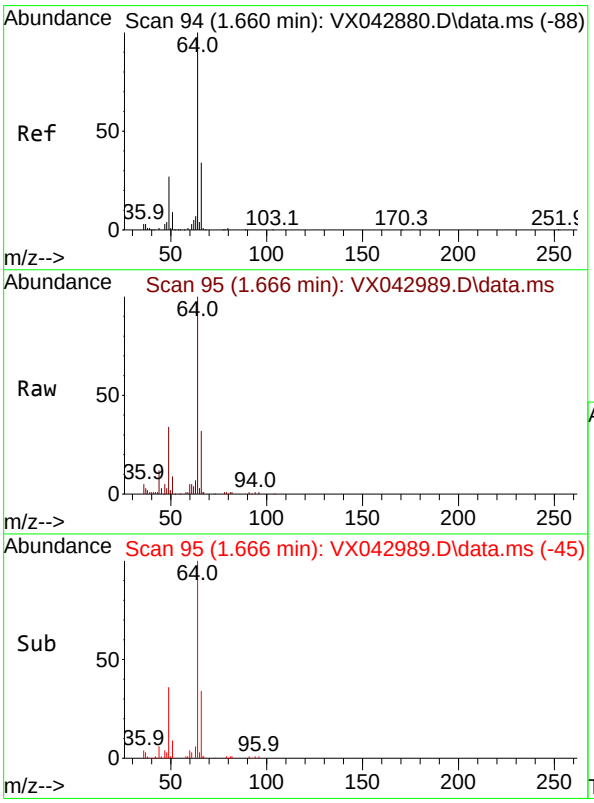
Ion	Ratio	Lower	Upper
94	100		
96	89.3	74.6	111.8



Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

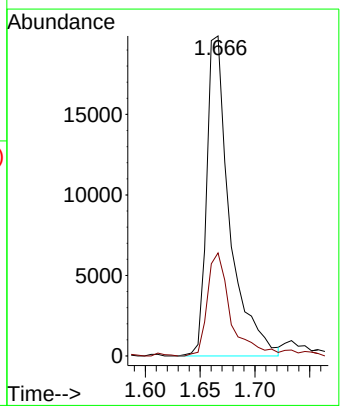
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

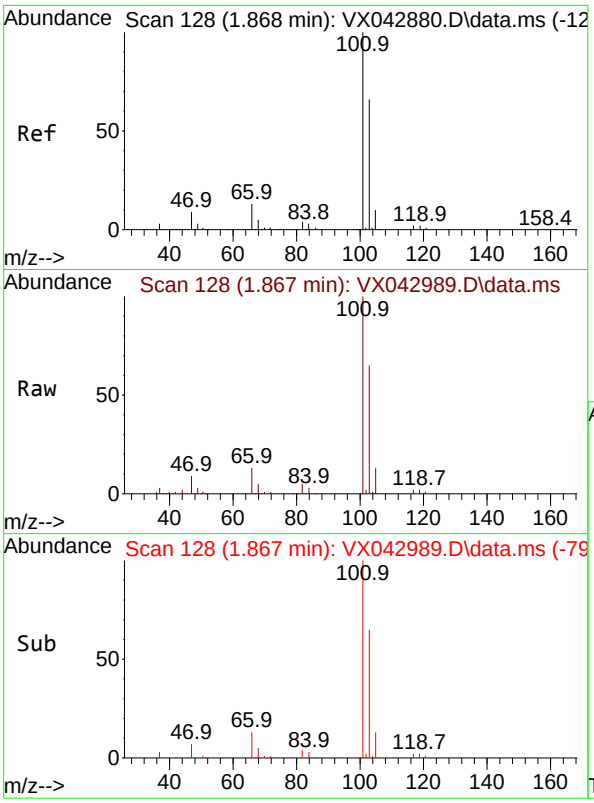


#6
Chloroethane
Concen: 19.649 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.006 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 64 Resp: 29037

Ion	Ratio	Lower	Upper
64	100		
66	32.2	25.1	37.7





#7
Trichlorofluoromethane
Concen: 19.513 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

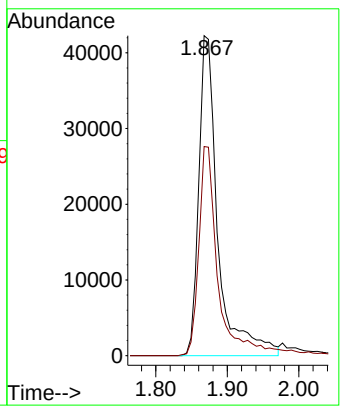
Tgt Ion:101 Resp: 7871

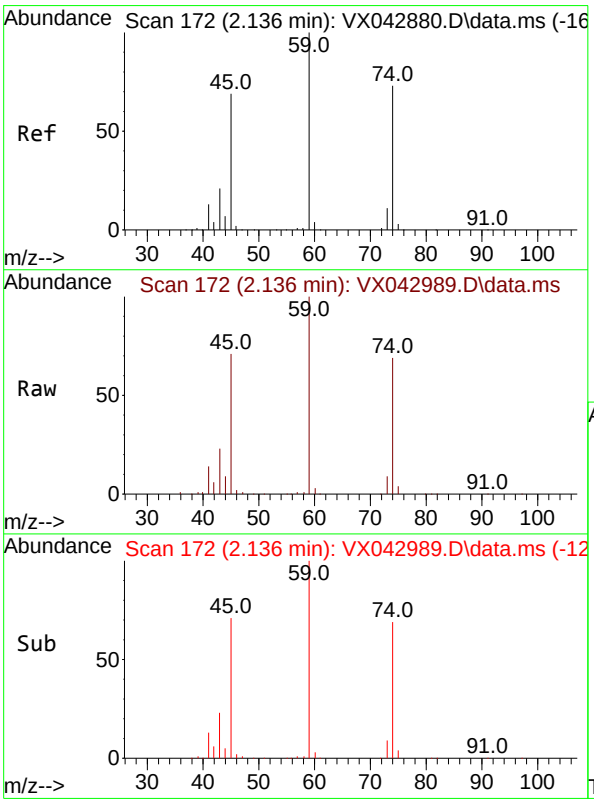
Ion	Ratio	Lower	Upper
101	100		
103	65.4	51.4	77.2

Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

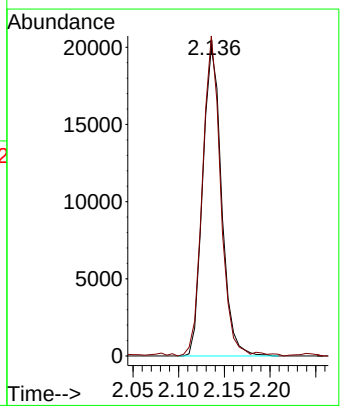


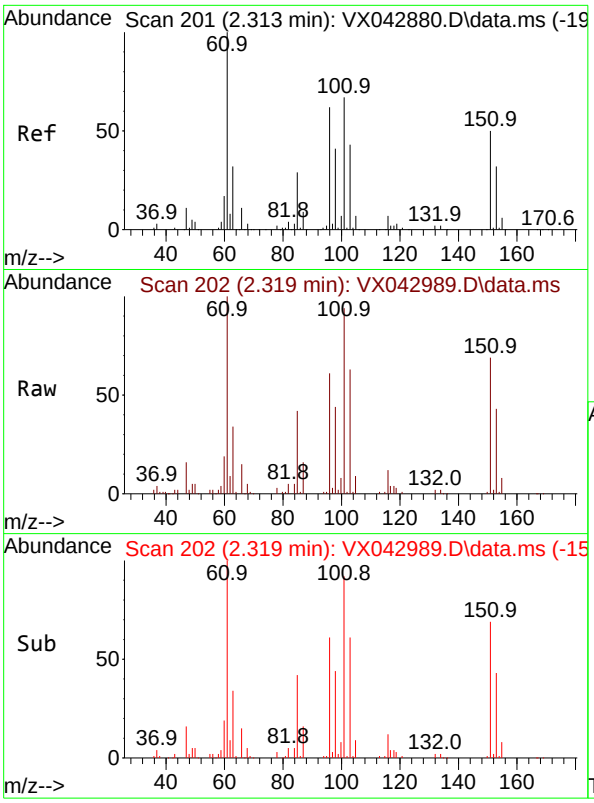


#8
Diethyl Ether
Concen: 19.316 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 74 Resp: 28662

Ion	Ratio	Lower	Upper
74	100		
45	100.5	53.3	159.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.284 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

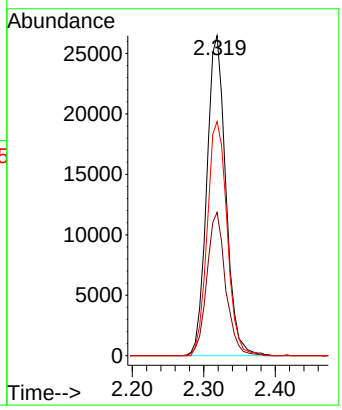
Tgt Ion:101 Resp: 4891

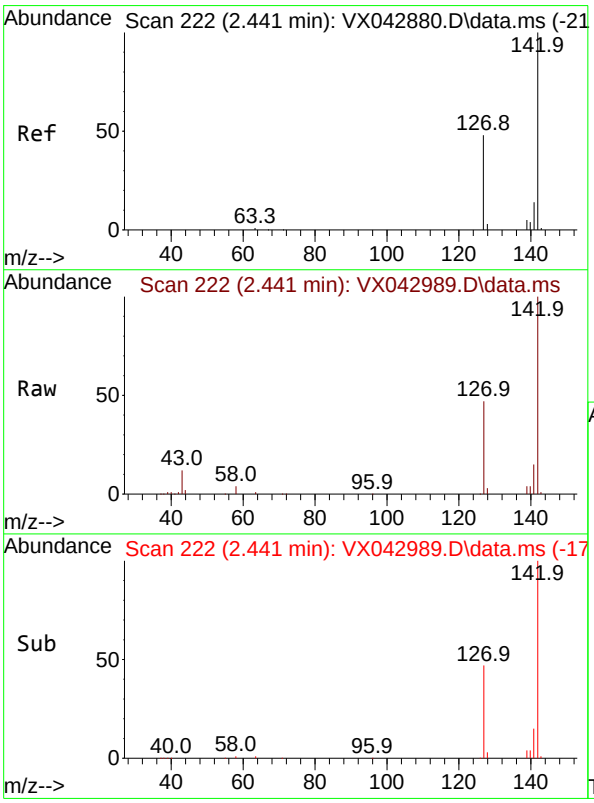
Ion	Ratio	Lower	Upper
101	100		
85	44.3	37.0	55.6
151	76.1	58.6	87.8

Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

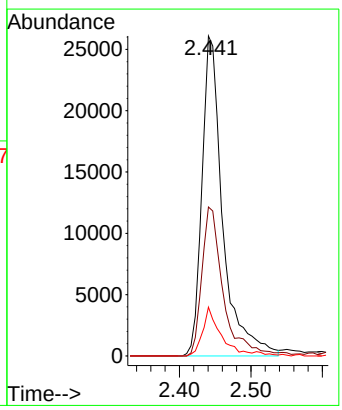


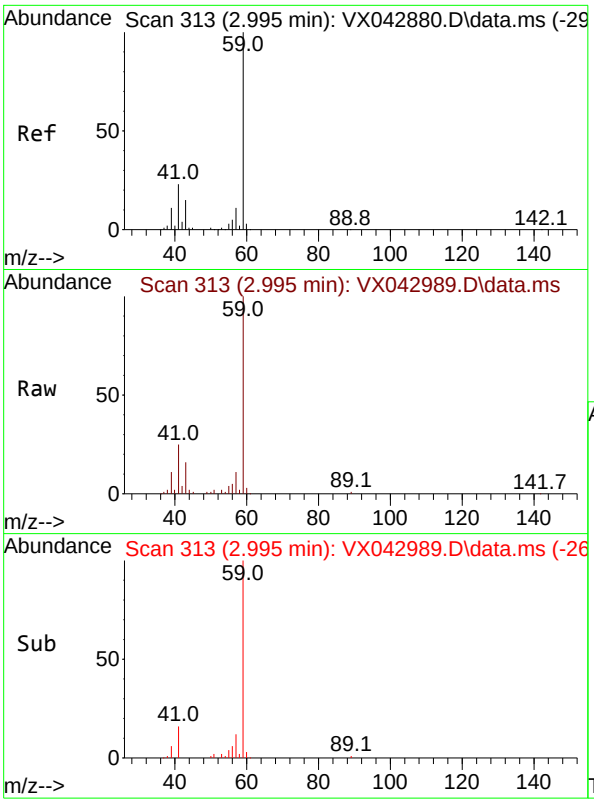


#10
Methyl Iodide
Concen: 20.091 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion:142 Resp: 52693

Ion	Ratio	Lower	Upper
142	100		
127	48.2	41.6	62.4
141	13.2	11.6	17.4

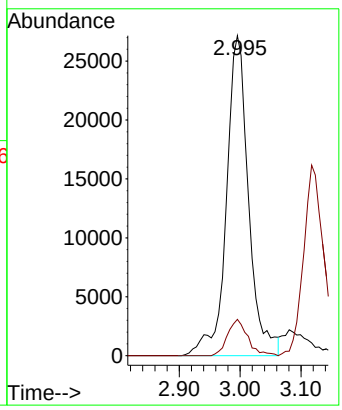




#11
Tert butyl alcohol
Concen: 108.026 ug/l
RT: 2.995 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 59 Resp: 6866

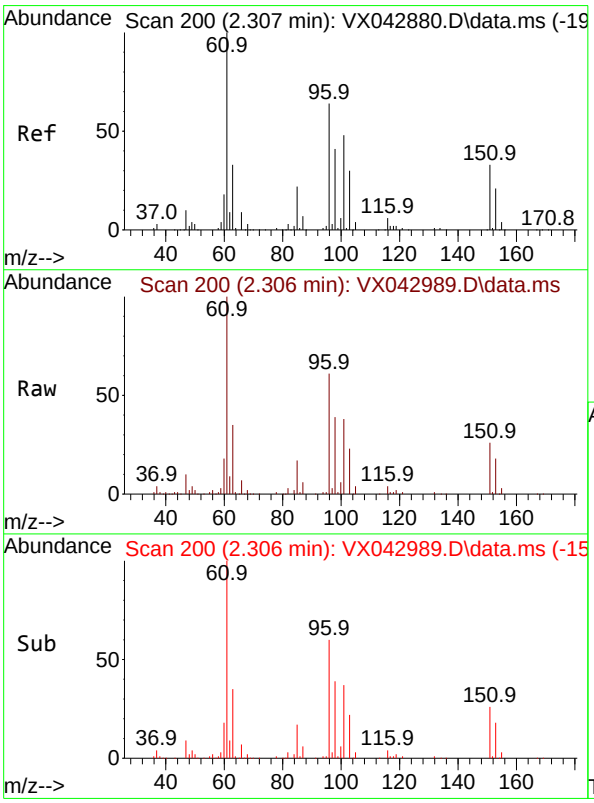
Ion	Ratio	Lower	Upper
59	100		
57	10.3	6.0	9.0



Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

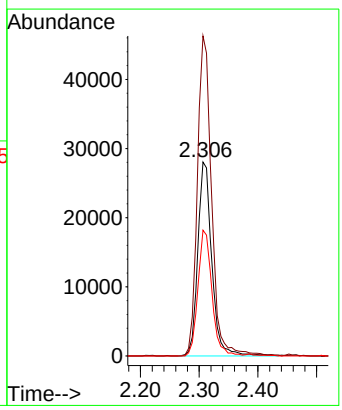
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

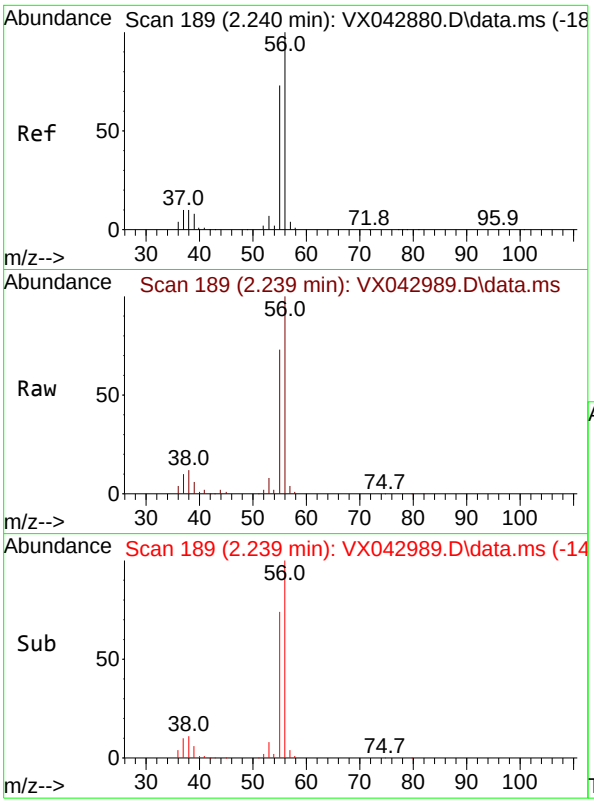


#12
1,1-Dichloroethene
Concen: 18.120 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 96 Resp: 46495

Ion	Ratio	Lower	Upper
96	100		
61	165.0	144.6	216.8
98	64.8	50.4	75.6

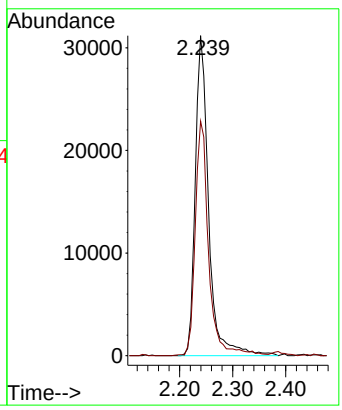




#13
Acrolein
Concen: 86.982 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 56 Resp: 5450

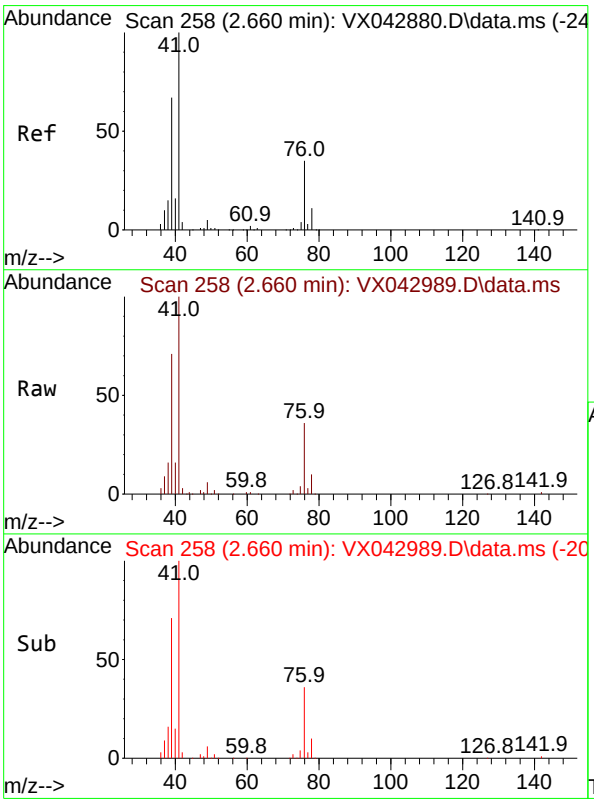
Ion	Ratio	Lower	Upper
56	100		
55	73.7	57.1	85.7



Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

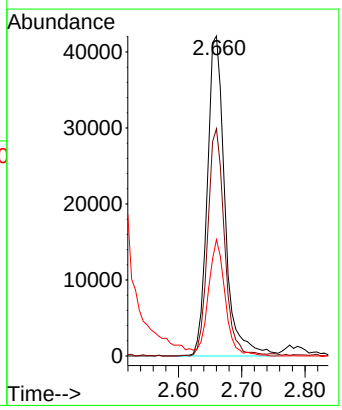
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

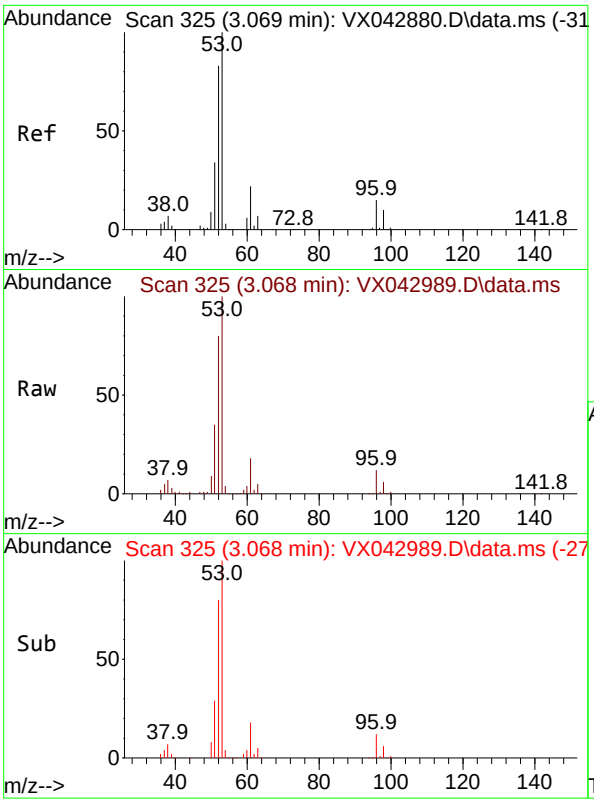


#14
Allyl chloride
Concen: 21.137 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 41 Resp: 81952

Ion	Ratio	Lower	Upper
41	100		
39	67.1	55.8	83.6
76	34.5	24.3	36.5

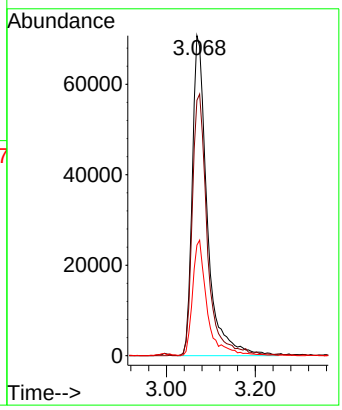




#15
Acrylonitrile
Concen: 102.007 ug/l
RT: 3.068 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 53 Resp: 16550

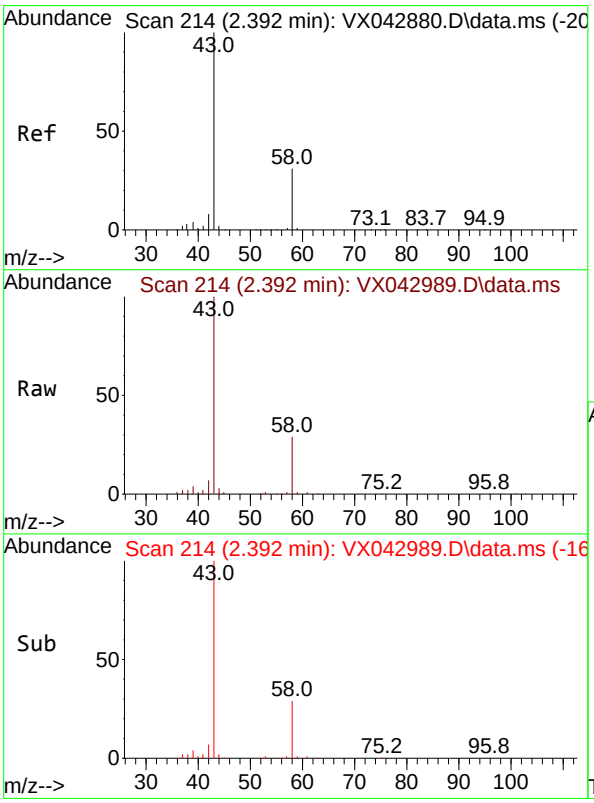
Ion	Ratio	Lower	Upper
53	100		
52	82.5	66.0	99.0
51	35.0	29.8	44.6



Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

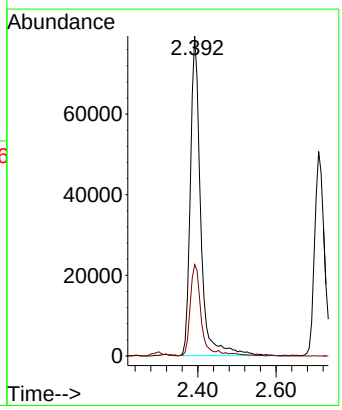
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

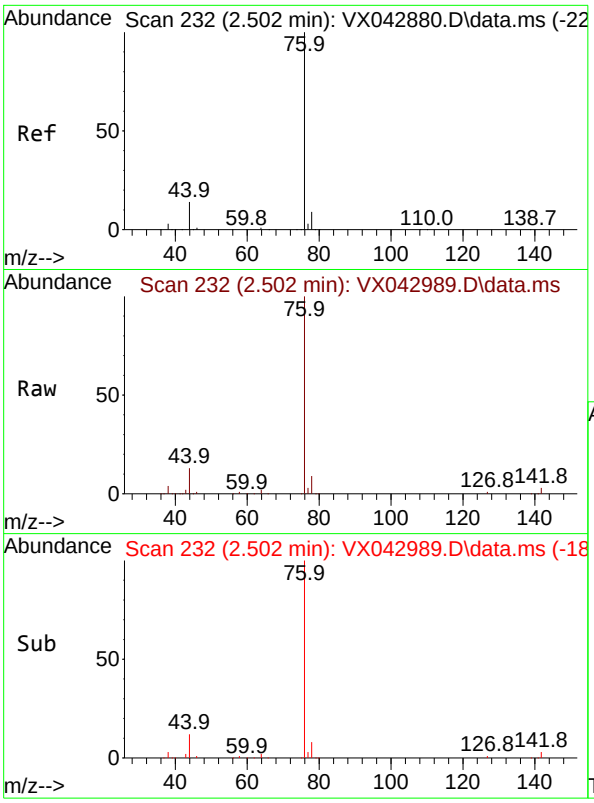


#16
Acetone
Concen: 104.733 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 43 Resp: 145177

Ion	Ratio	Lower	Upper
43	100		
58	28.6	21.9	32.9





#17
Carbon Disulfide
Concen: 16.987 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

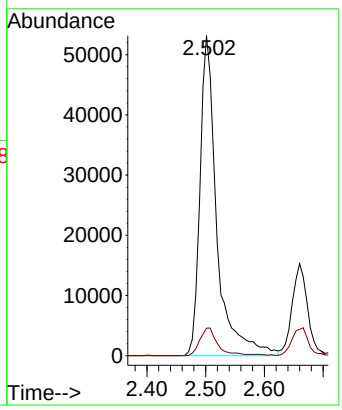
Tgt Ion: 76 Resp: 10607

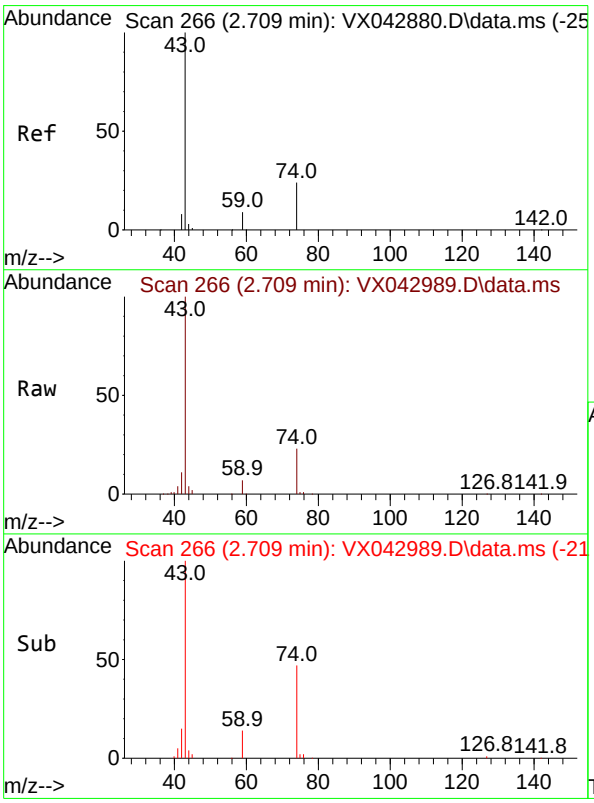
Ion	Ratio	Lower	Upper
76	100		
78	8.6	7.0	10.6

Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

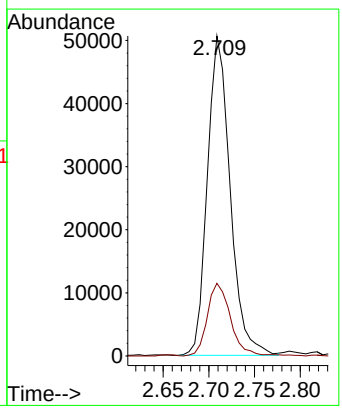


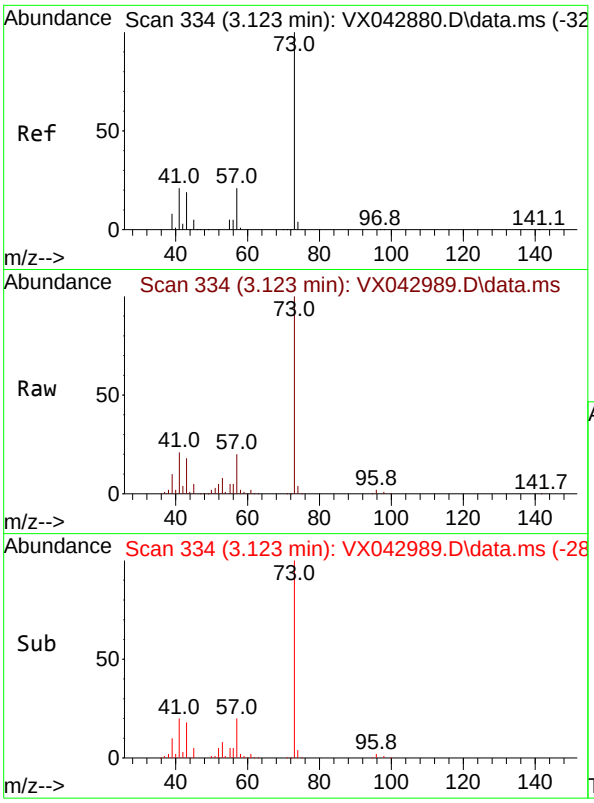


#18
Methyl Acetate
Concen: 19.979 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 43 Resp: 87822

Ion	Ratio	Lower	Upper
43	100		
74	23.3	17.8	26.8

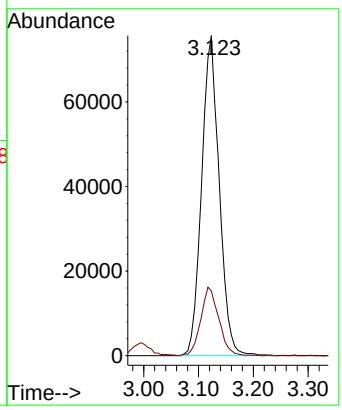




#19
Methyl tert-butyl Ether
Concen: 19.514 ug/l
RT: 3.123 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 73 Resp: 16853

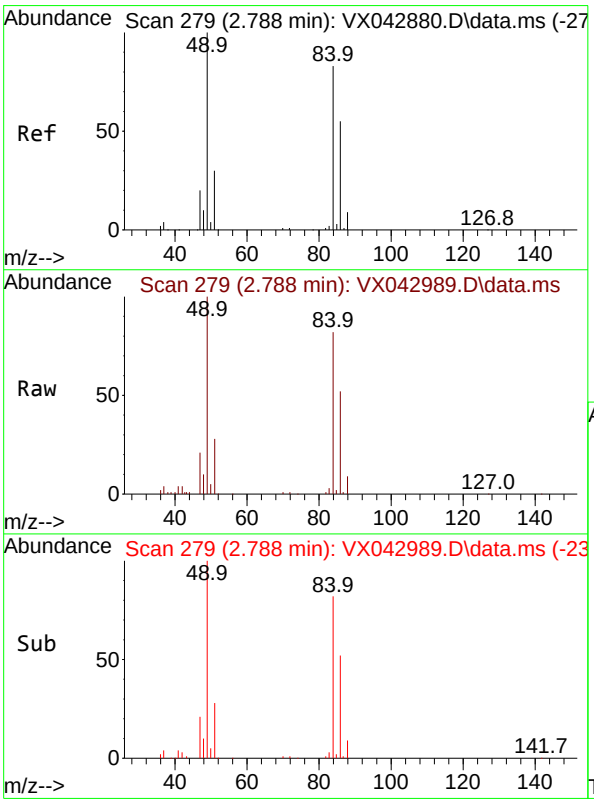
Ion	Ratio	Lower	Upper
73	100		
57	20.3	17.3	25.9



Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

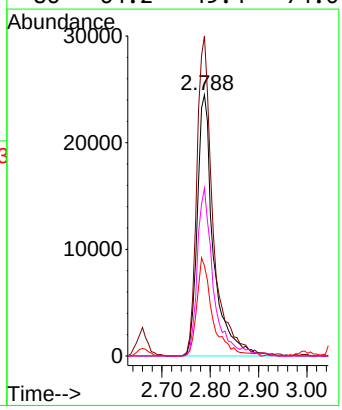
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

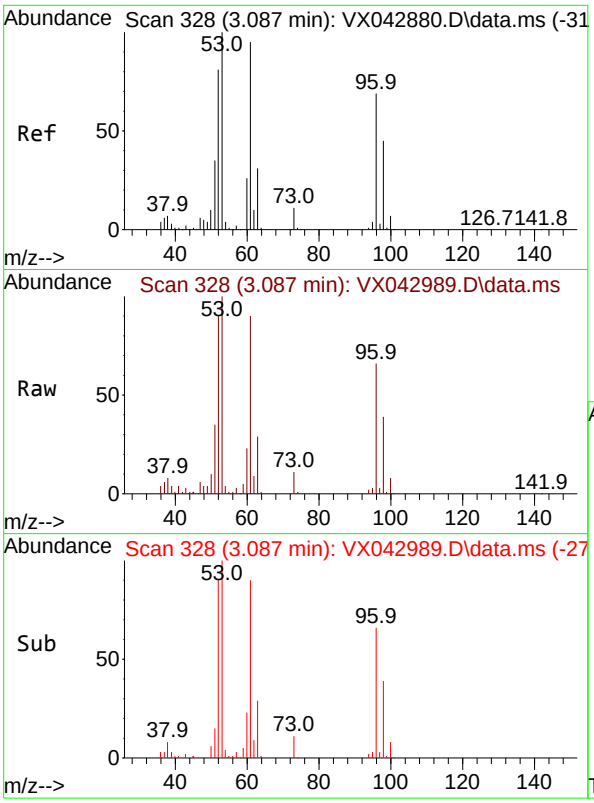


#20
Methylene Chloride
Concen: 19.116 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 84 Resp: 56817

Ion	Ratio	Lower	Upper
84	100		
49	122.6	103.6	155.4
51	34.5	33.8	50.6
86	64.2	49.4	74.0

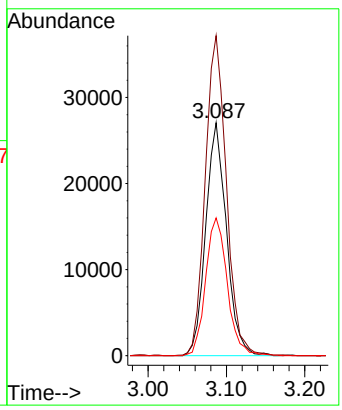




#21
trans-1,2-Dichloroethene
Concen: 19.300 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 96 Resp: 4982

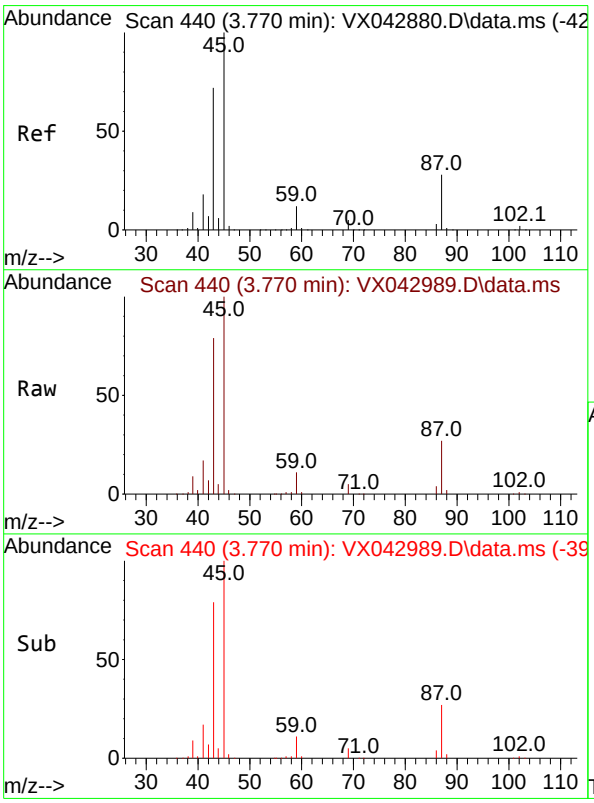
Ion	Ratio	Lower	Upper
96	100		
61	137.2	119.2	178.8
98	59.2	48.7	73.1



Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

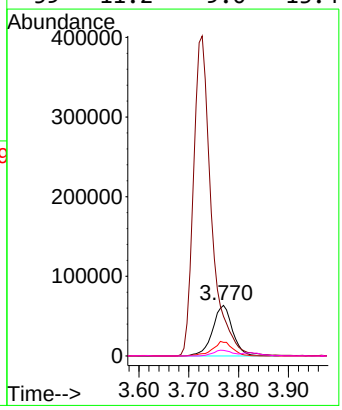
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

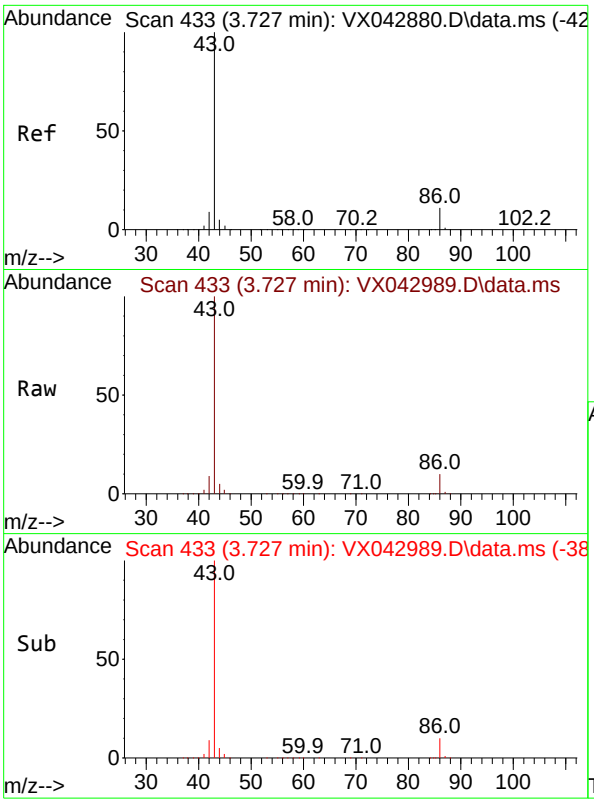


#22
Diisopropyl ether
Concen: 20.649 ug/l
RT: 3.770 min Scan# 440
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 45 Resp: 175875

Ion	Ratio	Lower	Upper
45	100		
43	78.3	69.7	104.5
87	26.8	20.8	31.2
59	11.2	9.0	13.4

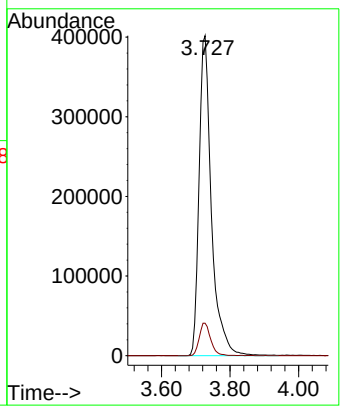




#23
Vinyl Acetate
Concen: 104.366 ug/l
RT: 3.727 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 43 Resp: 100889

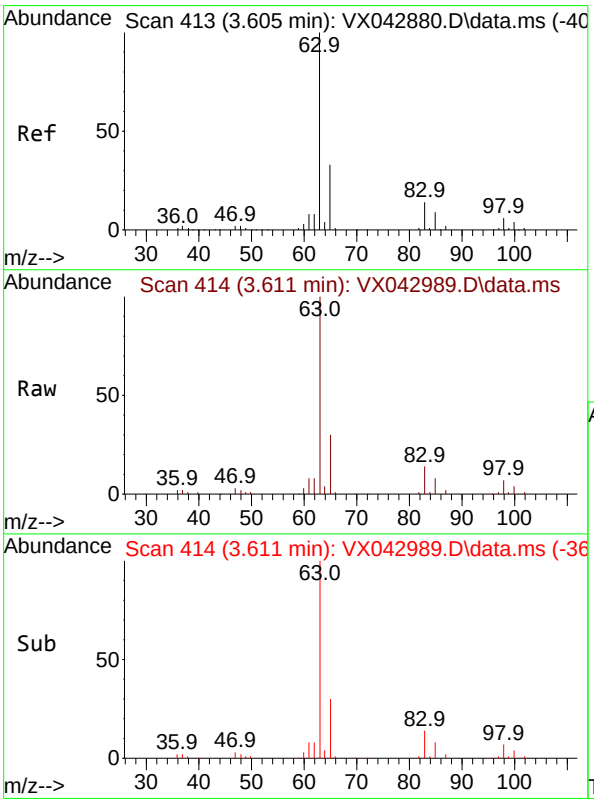
Ion	Ratio	Lower	Upper
43	100		
86	10.1	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

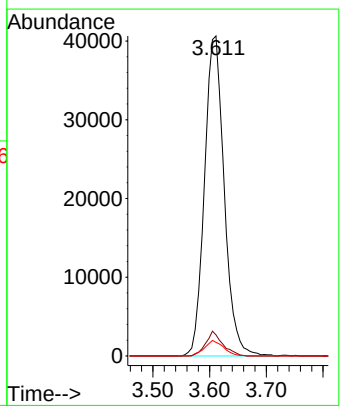
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

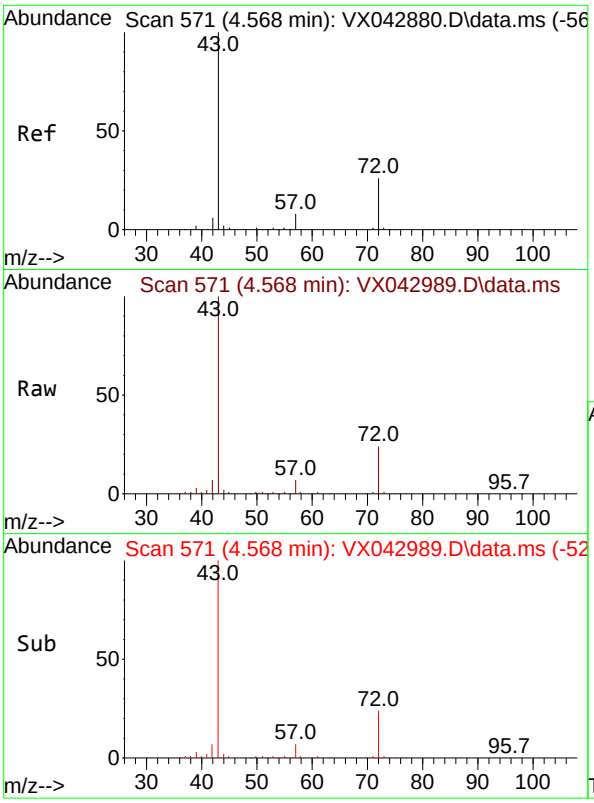


#24
1,1-Dichloroethane
Concen: 20.068 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 63 Resp: 98303

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.3	9.8
100	4.2	2.1	6.5





#25
2-Butanone
Concen: 106.825 ug/l
RT: 4.568 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

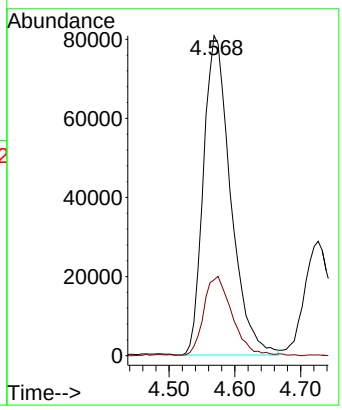
Tgt Ion: 43 Resp: 23254

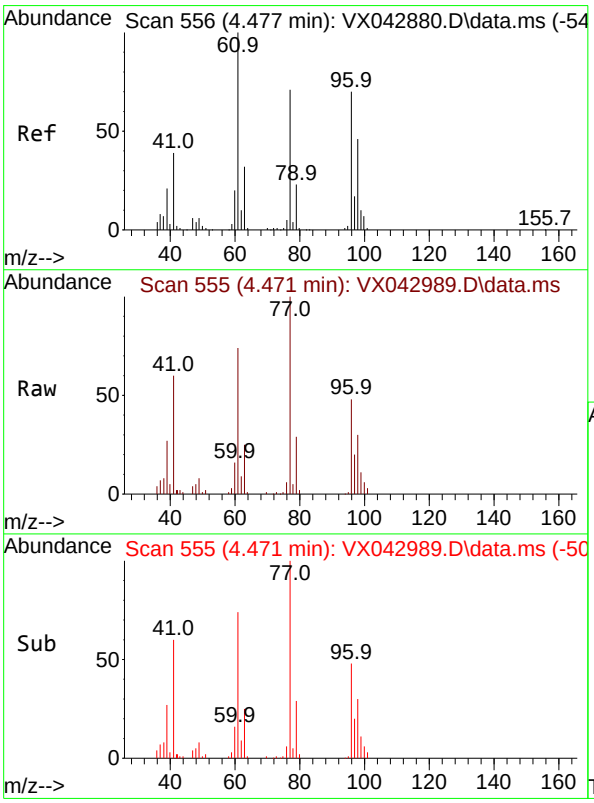
Ion	Ratio	Lower	Upper
43	100		
72	23.5	19.4	29.2

Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

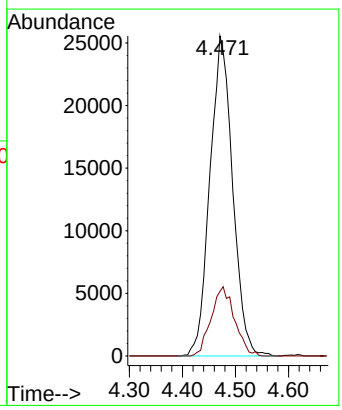


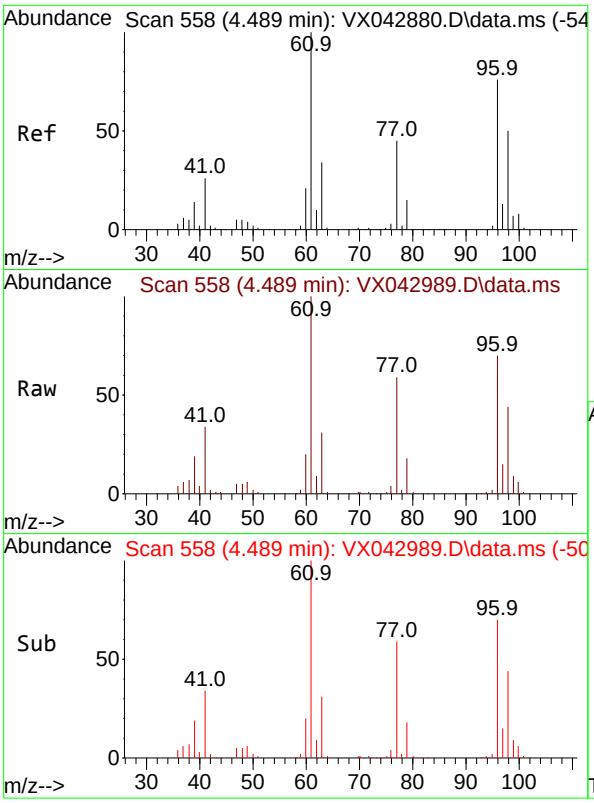


#26
2,2-Dichloropropane
Concen: 25.221 ug/l
RT: 4.471 min Scan# 555
Delta R.T. -0.006 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 77 Resp: 75952

Ion	Ratio	Lower	Upper
77	100		
97	22.3	10.8	32.3

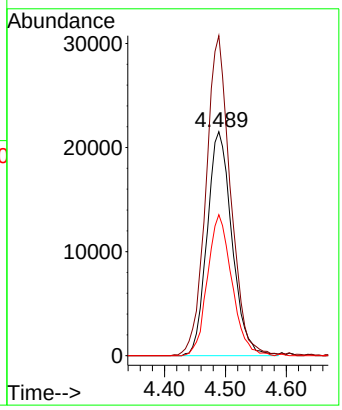




#27
cis-1,2-Dichloroethene
Concen: 19.913 ug/l
RT: 4.489 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 96 Resp: 6096

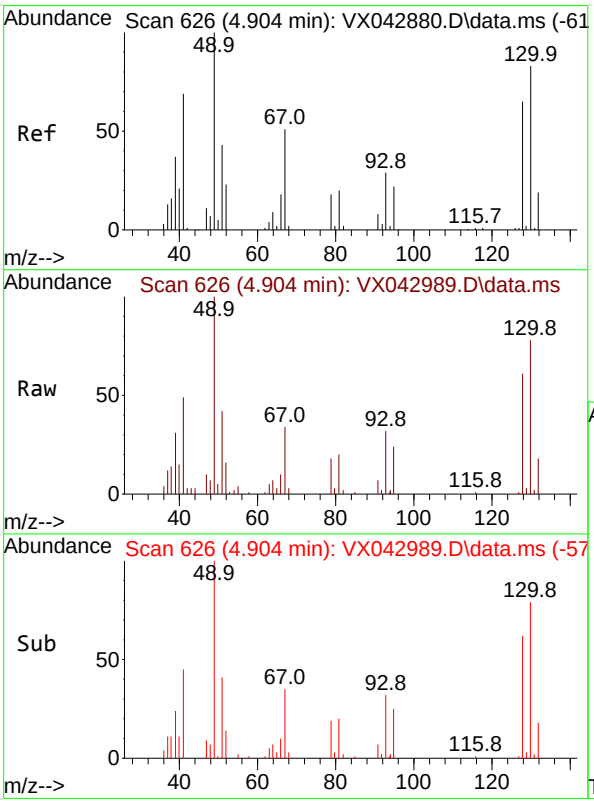
Ion	Ratio	Lower	Upper
96	100		
61	141.1	0.0	312.2
98	61.9	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

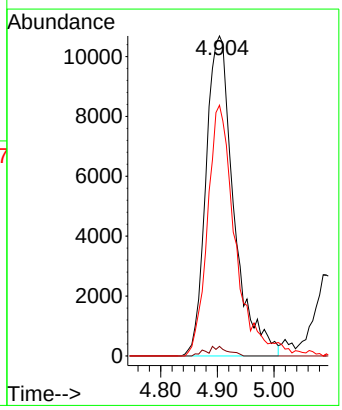
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

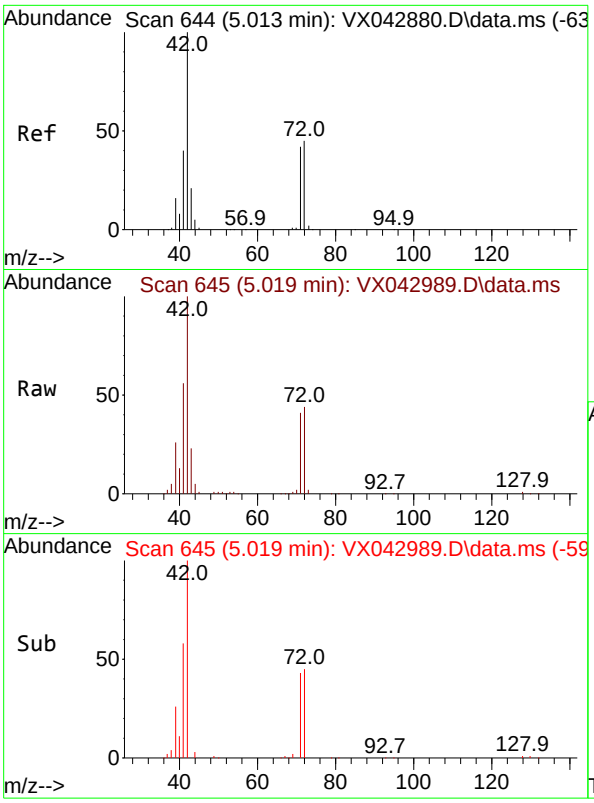


#28
Bromochloromethane
Concen: 19.431 ug/l
RT: 4.904 min Scan# 626
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 49 Resp: 36524

Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	3.8
130	76.3	57.5	86.3





#29
Tetrahydrofuran
Concen: 100.282 ug/l
RT: 5.019 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

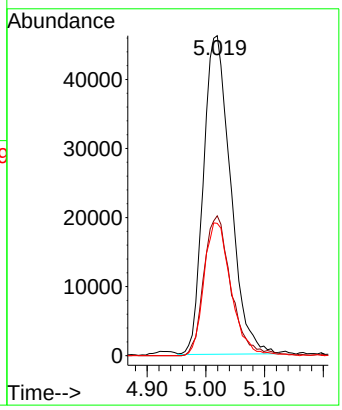
Tgt Ion: 42 Resp: 14751

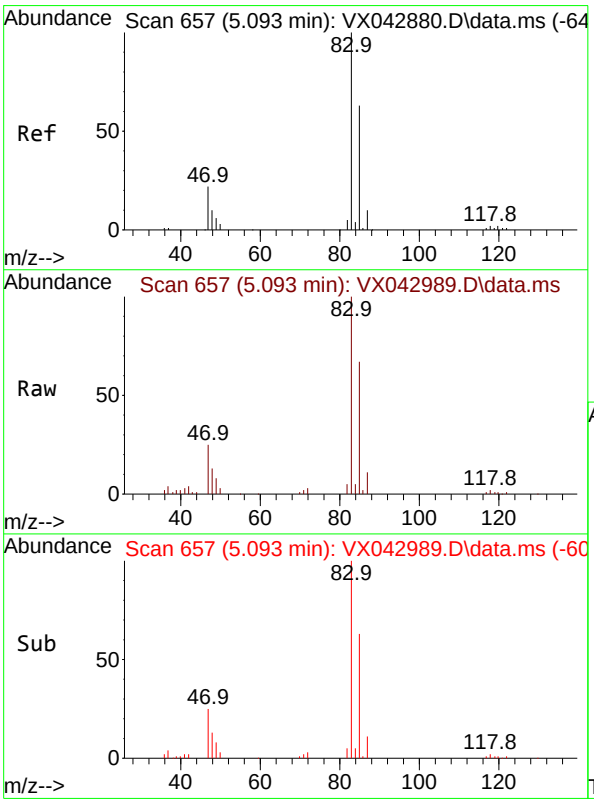
Ion	Ratio	Lower	Upper
42	100		
72	44.2	34.2	51.4
71	41.9	32.2	48.2

Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

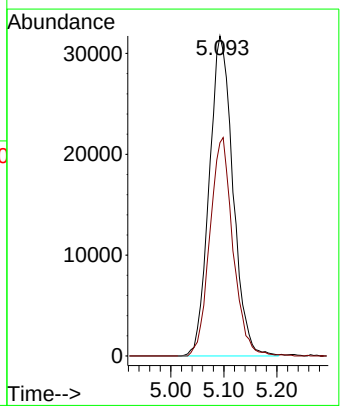


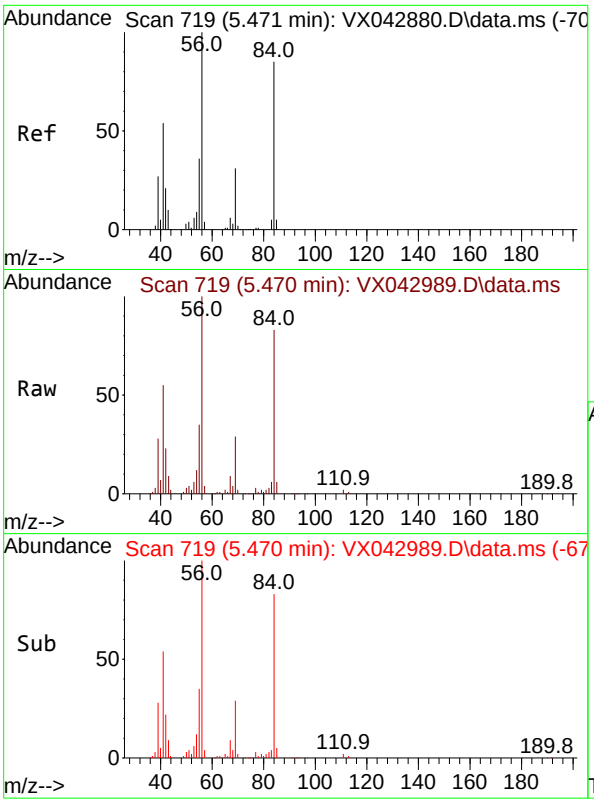


#30
Chloroform
Concen: 19.219 ug/l
RT: 5.093 min Scan# 657
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 83 Resp: 98560

Ion	Ratio	Lower	Upper
83	100		
85	66.7	50.3	75.5

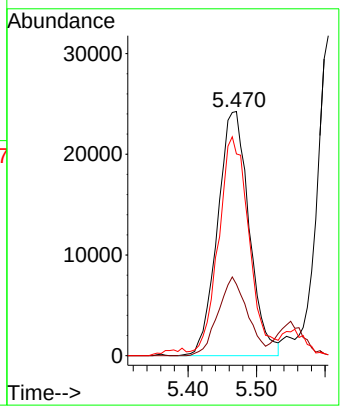




#31
Cyclohexane
Concen: 19.420 ug/l
RT: 5.470 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 56 Resp: 7765

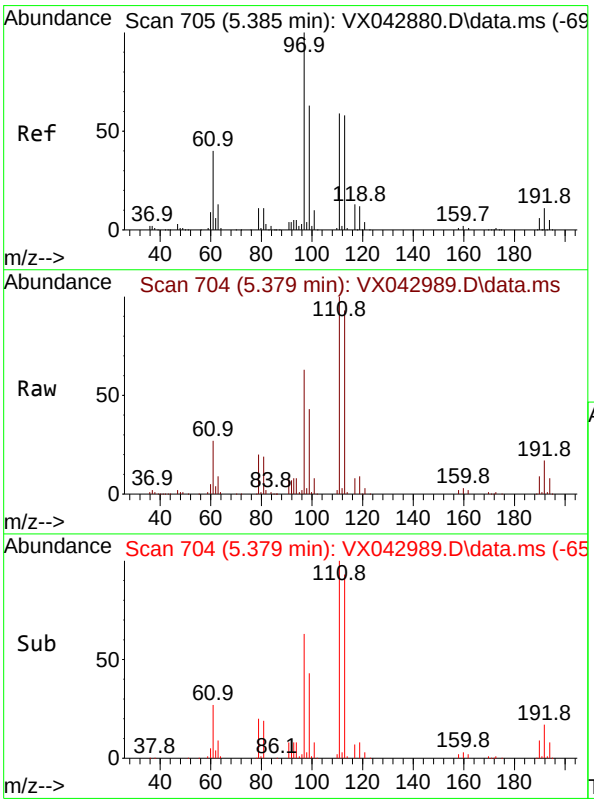
Ion	Ratio	Lower	Upper
56	100		
69	29.2	23.4	35.2
84	80.9	65.9	98.9



Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

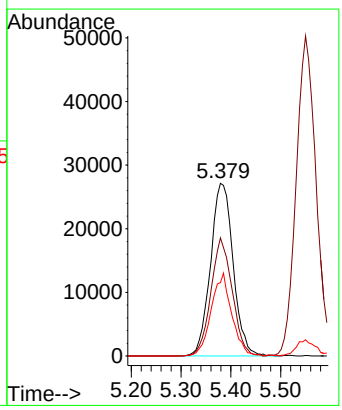
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

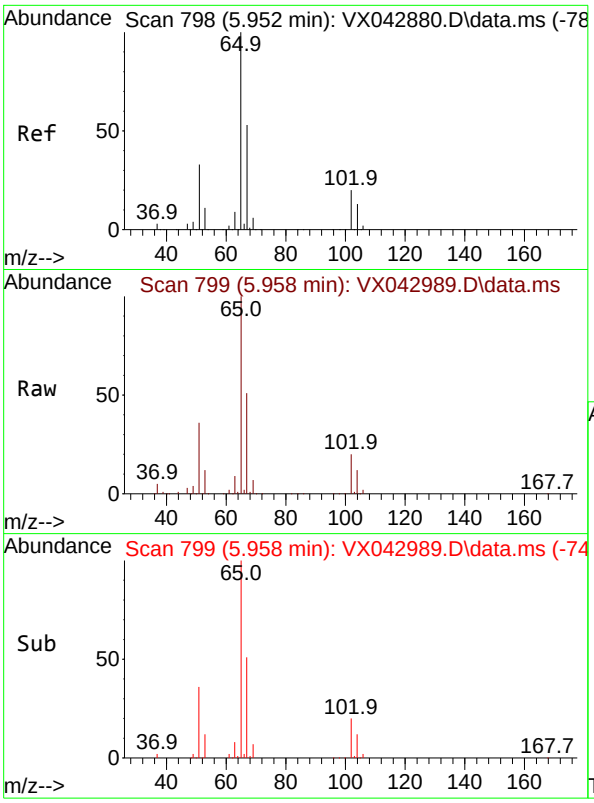


#32
1,1,1-Trichloroethane
Concen: 18.950 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 97 Resp: 85547

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.1	76.7
61	43.3	36.4	54.6





#33
1,2-Dichloroethane-d4
Concen: 53.770 ug/l
RT: 5.958 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

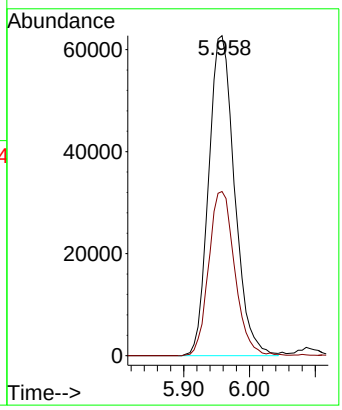
Tgt Ion: 65 Resp: 17184

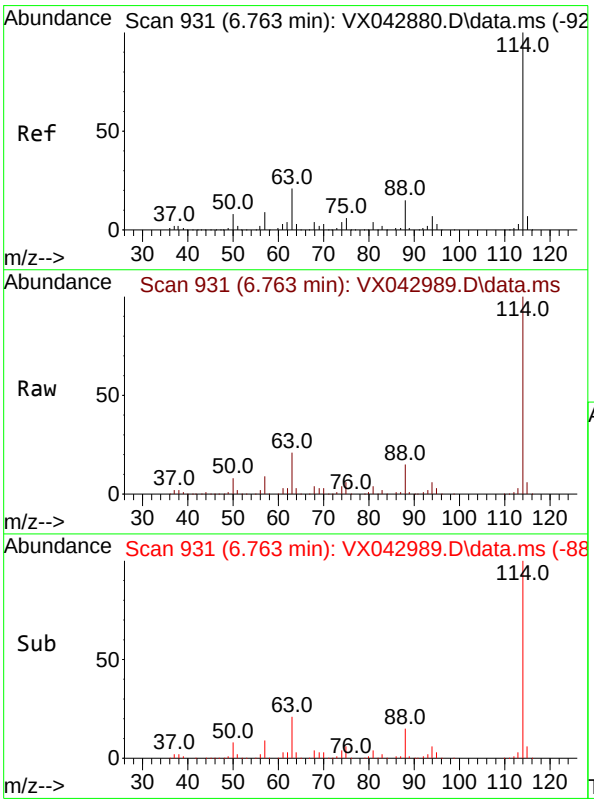
Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	100.2

Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

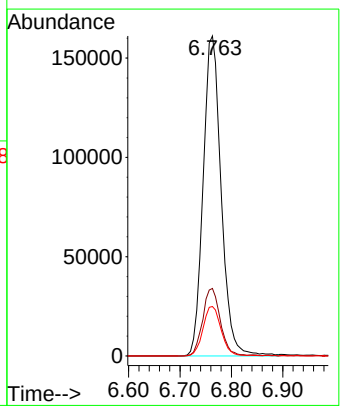


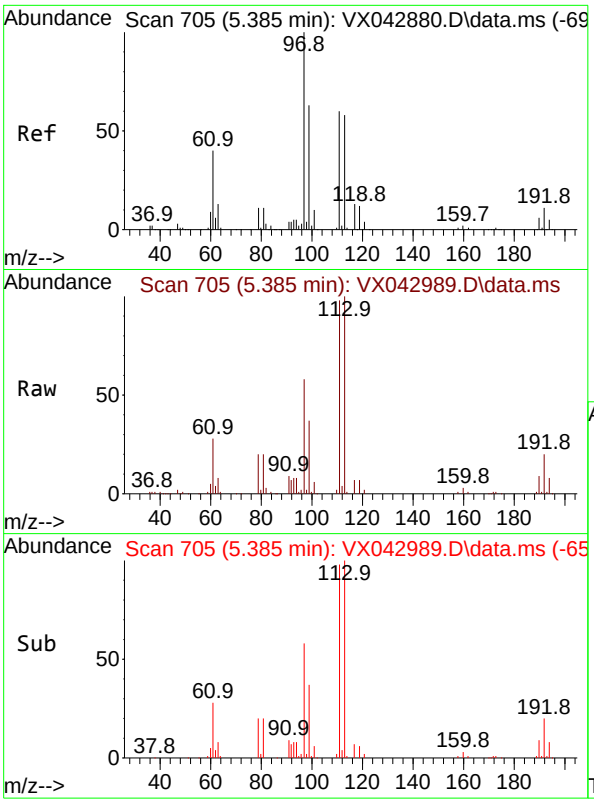


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion:114 Resp: 392597

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	45.0
88	15.5	0.0	36.6

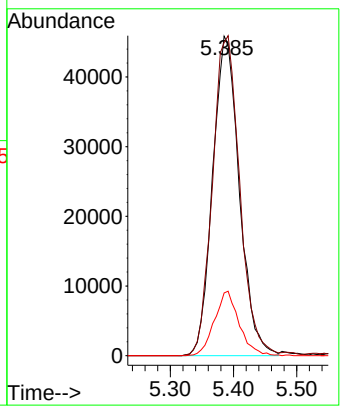




#35
Dibromofluoromethane
Concen: 52.202 ug/l
RT: 5.385 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion:113 Resp: 13400

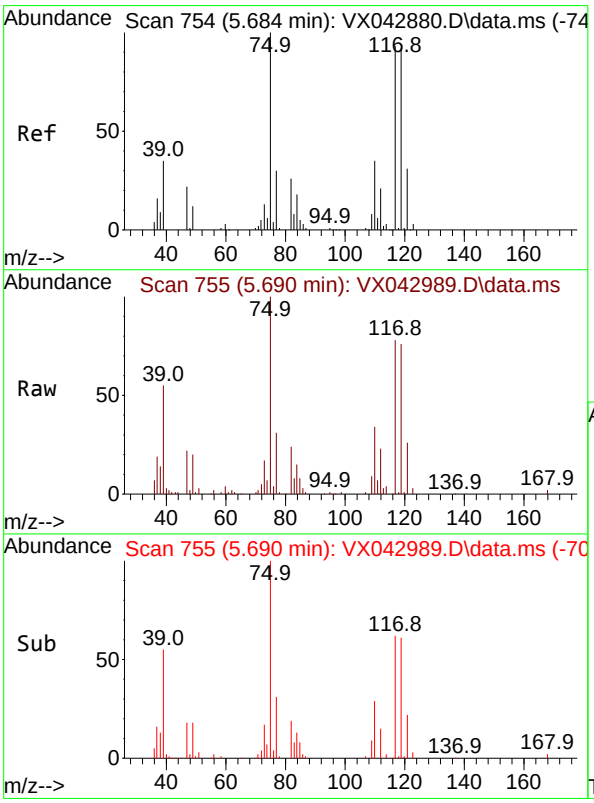
Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.9	124.3
192	18.7	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

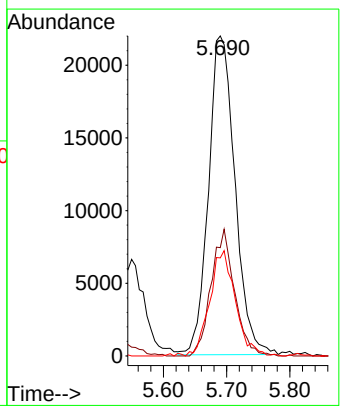
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

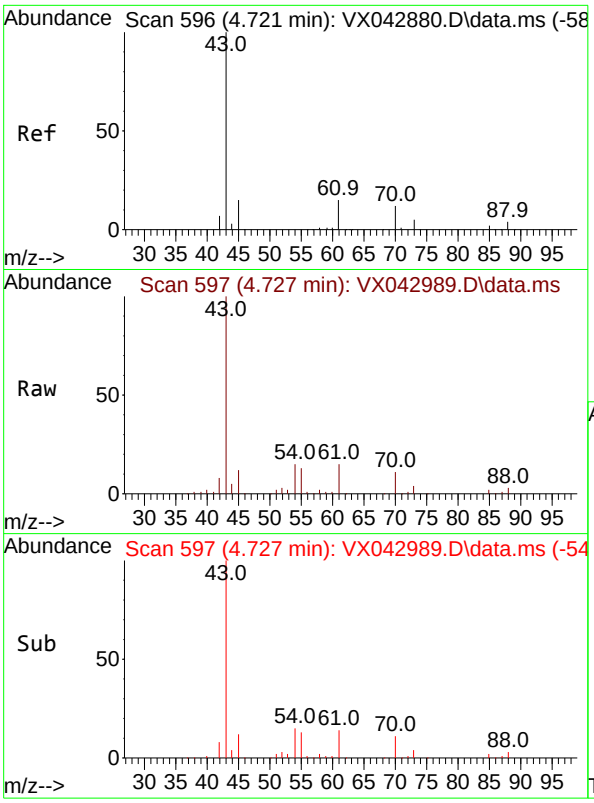


#36
1,1-Dichloropropene
Concen: 18.361 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.006 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 75 Resp: 63902

Ion	Ratio	Lower	Upper
75	100		
110	35.2	17.0	50.9
77	32.0	24.7	37.1

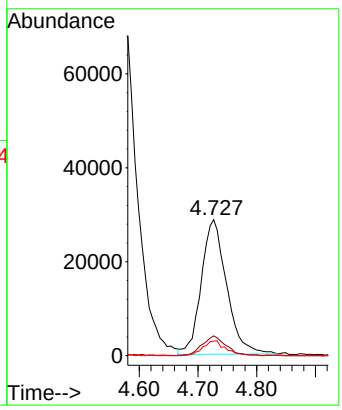




#37
Ethyl Acetate
Concen: 19.740 ug/l
RT: 4.727 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 43 Resp: 8595

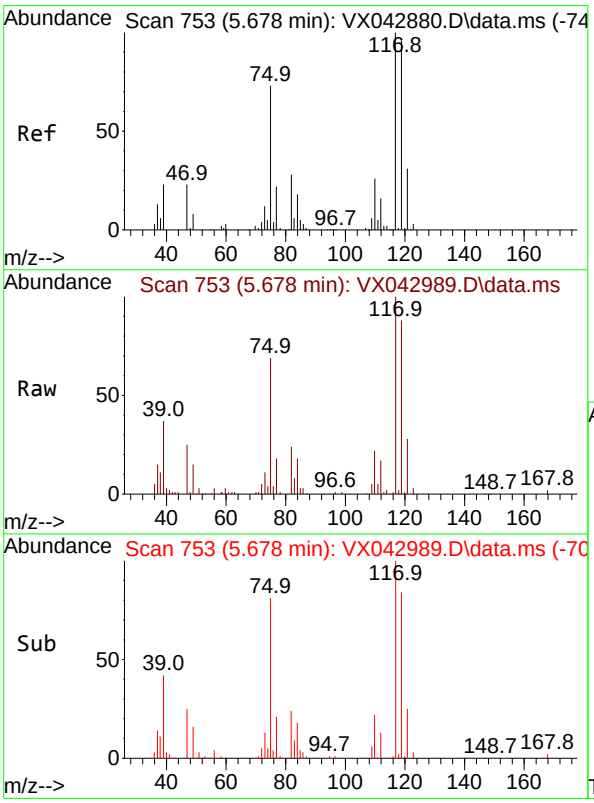
Ion	Ratio	Lower	Upper
43	100		
61	13.9	10.6	16.0
70	10.1	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

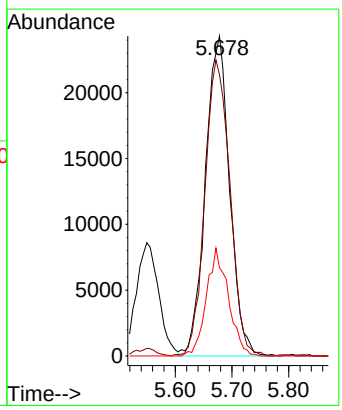
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

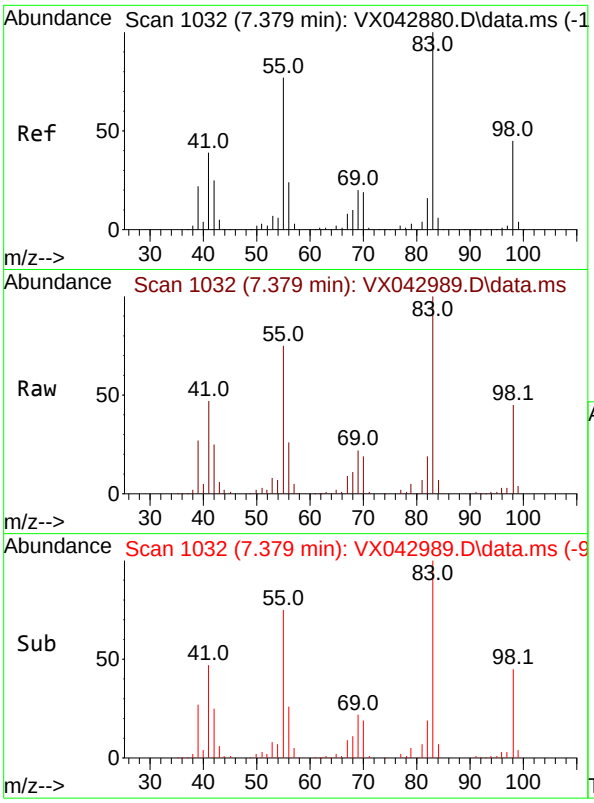


#38
Carbon Tetrachloride
Concen: 18.371 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion:117 Resp: 72173

Ion	Ratio	Lower	Upper
117	100		
119	87.7	78.2	117.2
121	27.6	24.4	36.6

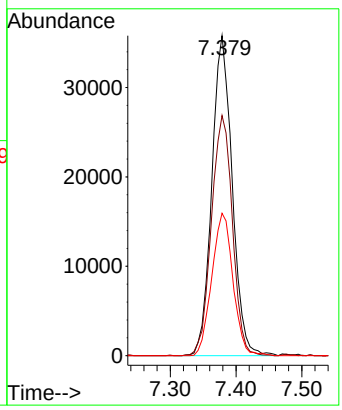




#39
Methylcyclohexane
Concen: 18.653 ug/l
RT: 7.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 83 Resp: 7717

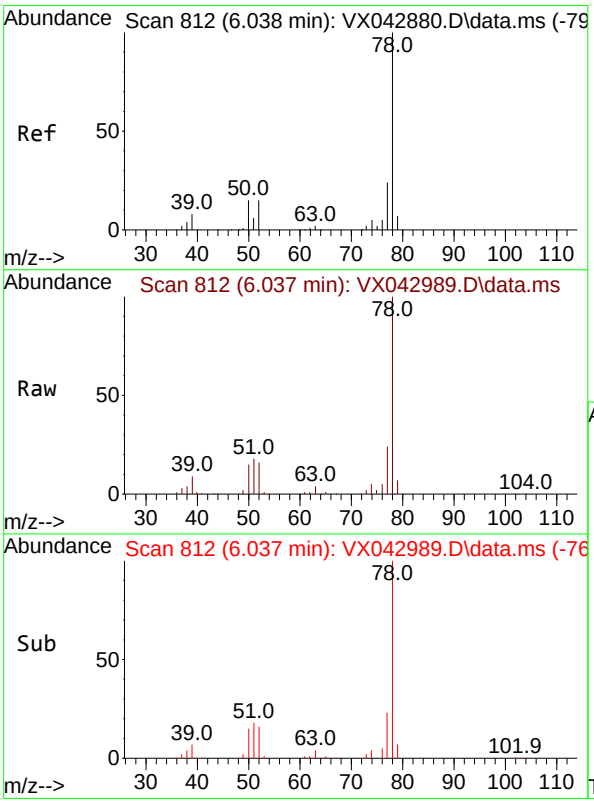
Ion	Ratio	Lower	Upper
83	100		
55	75.1	64.6	97.0
98	44.5	36.7	55.1



Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

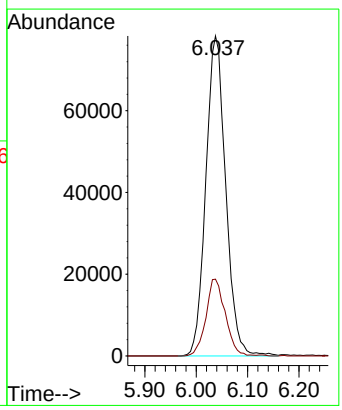
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

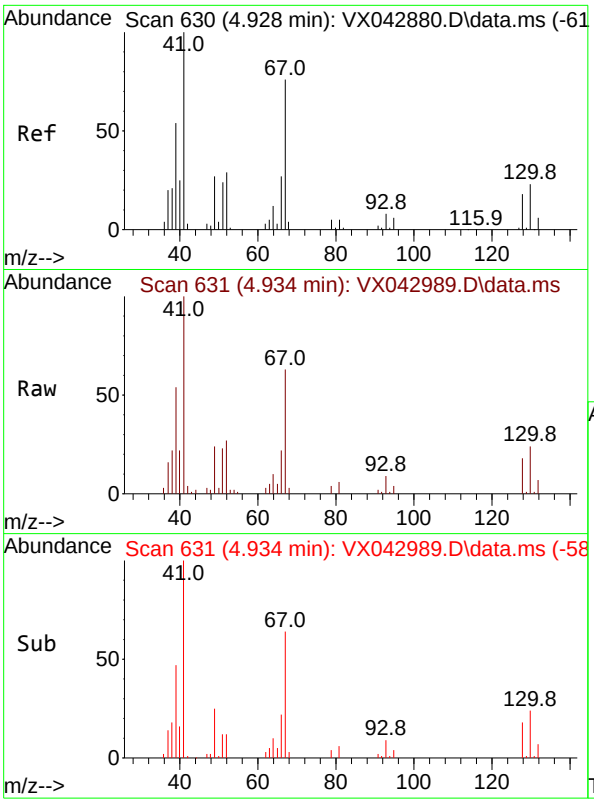


#40
Benzene
Concen: 19.484 ug/l
RT: 6.037 min Scan# 812
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 78 Resp: 210456

Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.3	28.9

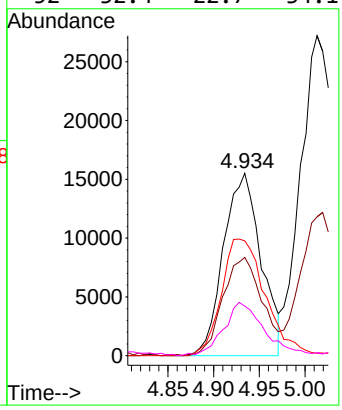




#41
Methacrylonitrile
Concen: 19.788 ug/l
RT: 4.934 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 41 Resp: 4438

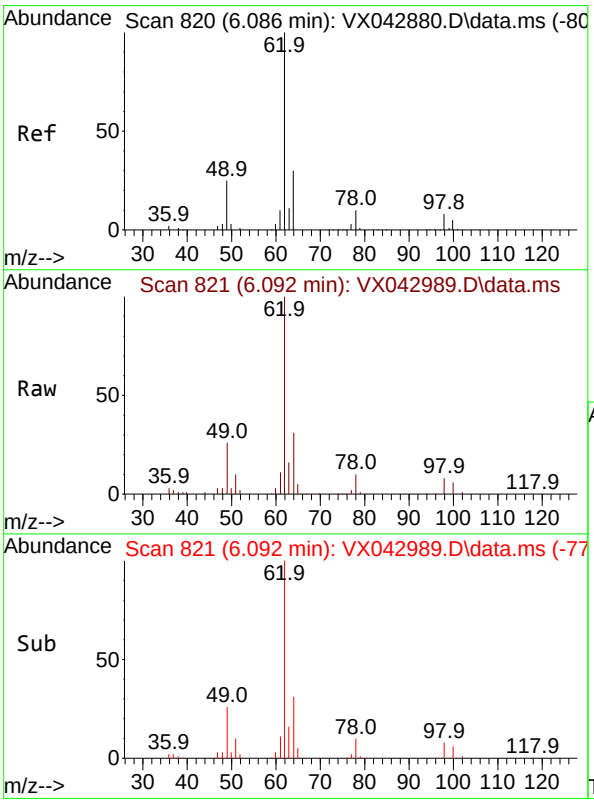
Ion	Ratio	Lower	Upper
41	100		
39	56.2	45.2	67.8
67	75.1	52.6	78.8
52	32.4	22.7	34.1



Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

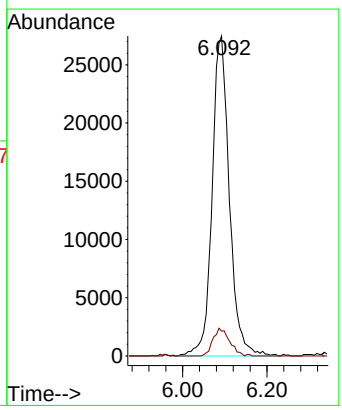
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

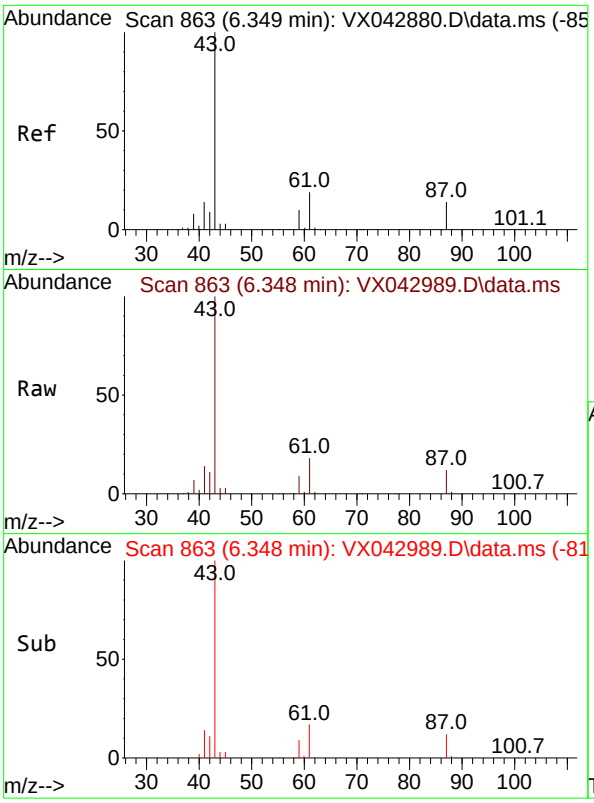


#42
1,2-Dichloroethane
Concen: 19.863 ug/l
RT: 6.092 min Scan# 821
Delta R.T. 0.006 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 62 Resp: 78041

Ion	Ratio	Lower	Upper
62	100		
98	8.3	0.0	16.0

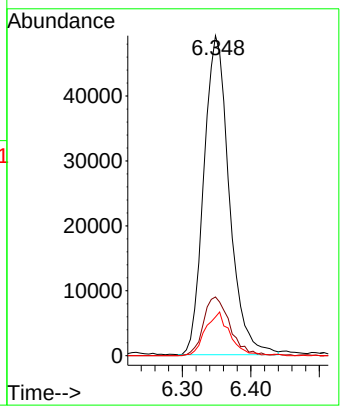




#43
Isopropyl Acetate
Concen: 19.679 ug/l
RT: 6.348 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 43 Resp: 12673

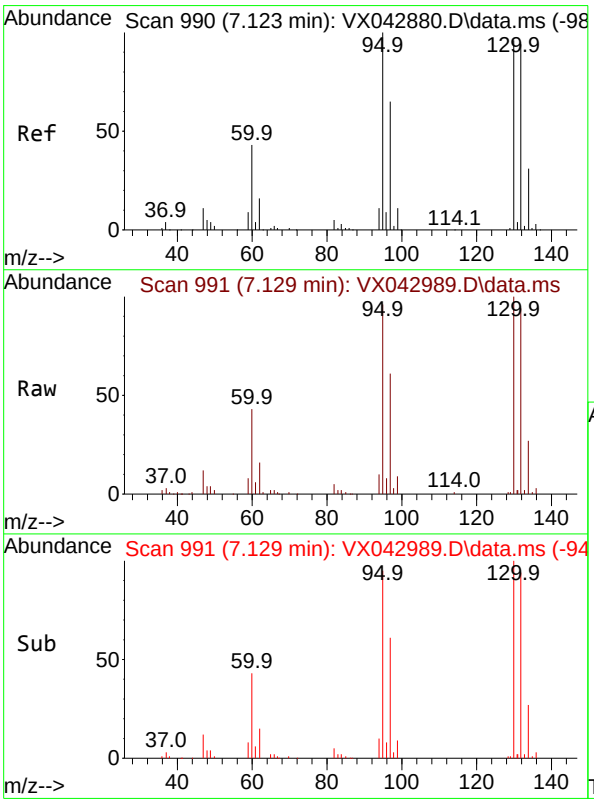
Ion	Ratio	Lower	Upper
43	100		
61	19.2	15.2	22.8
87	13.2	9.8	14.6



Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

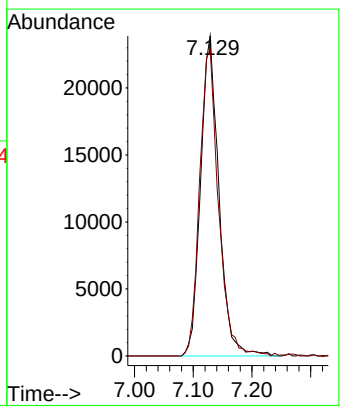
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

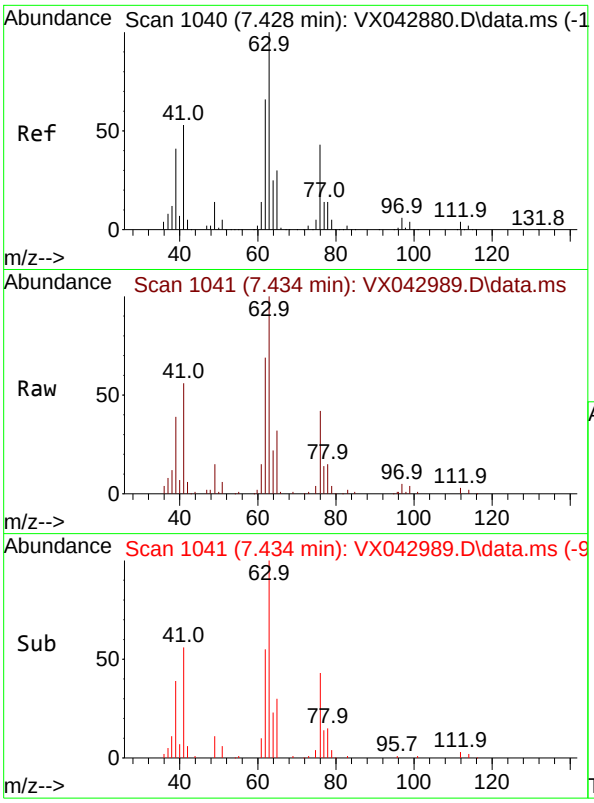


#44
Trichloroethene
Concen: 19.072 ug/l
RT: 7.129 min Scan# 991
Delta R.T. 0.006 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion:130 Resp: 51764

Ion	Ratio	Lower	Upper
130	100		
95	95.8	0.0	204.4

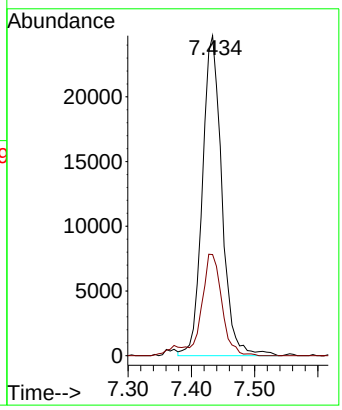




#45
1,2-Dichloropropane
Concen: 19.317 ug/l
RT: 7.434 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 63 Resp: 5292

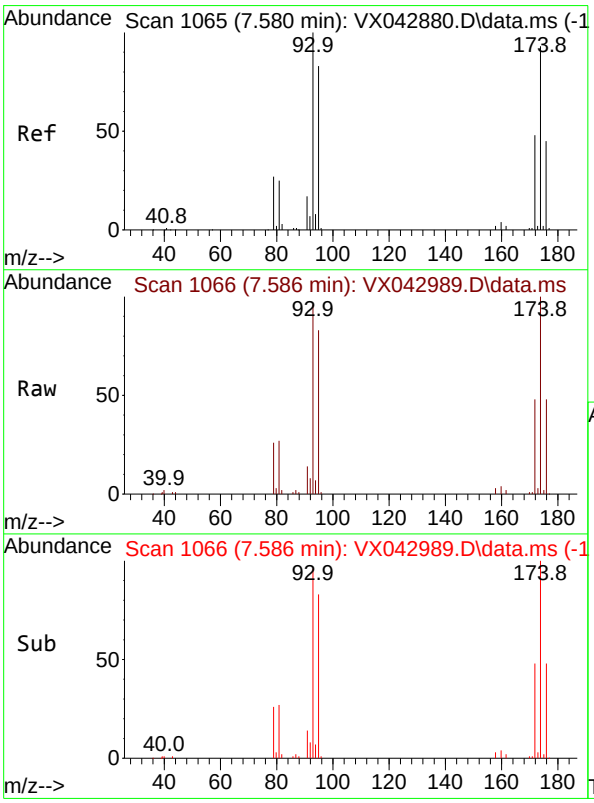
Ion	Ratio	Lower	Upper
63	100		
65	31.6	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

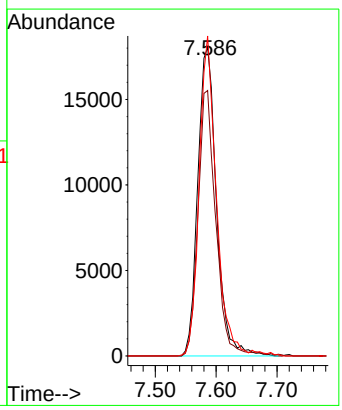
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

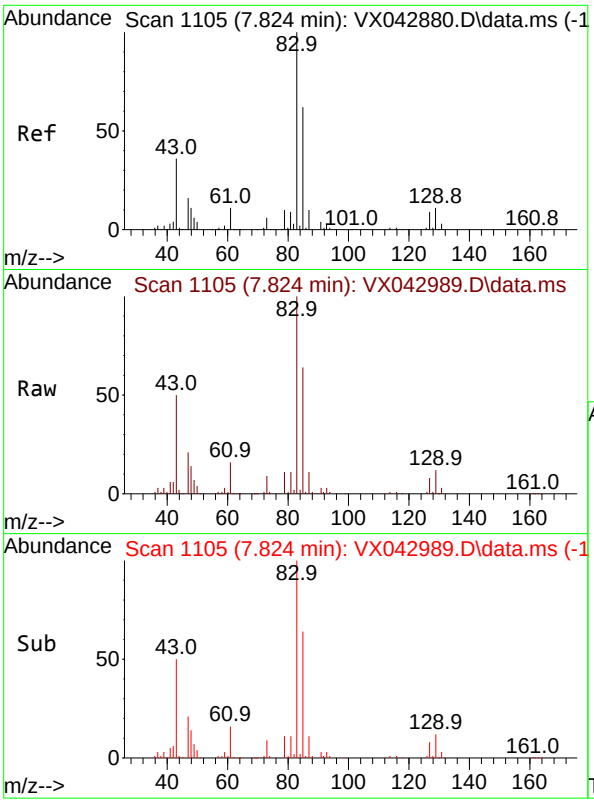


#46
Dibromomethane
Concen: 19.100 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 93 Resp: 38437

Ion	Ratio	Lower	Upper
93	100		
95	82.3	66.6	100.0
174	95.2	69.4	104.0

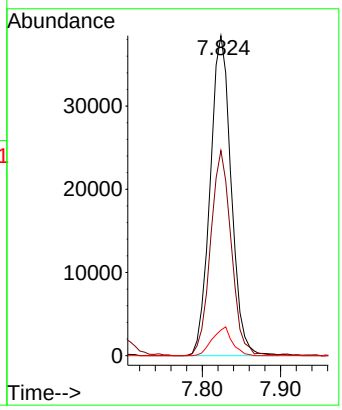




#47
Bromodichloromethane
Concen: 19.176 ug/l
RT: 7.824 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 83 Resp: 7168

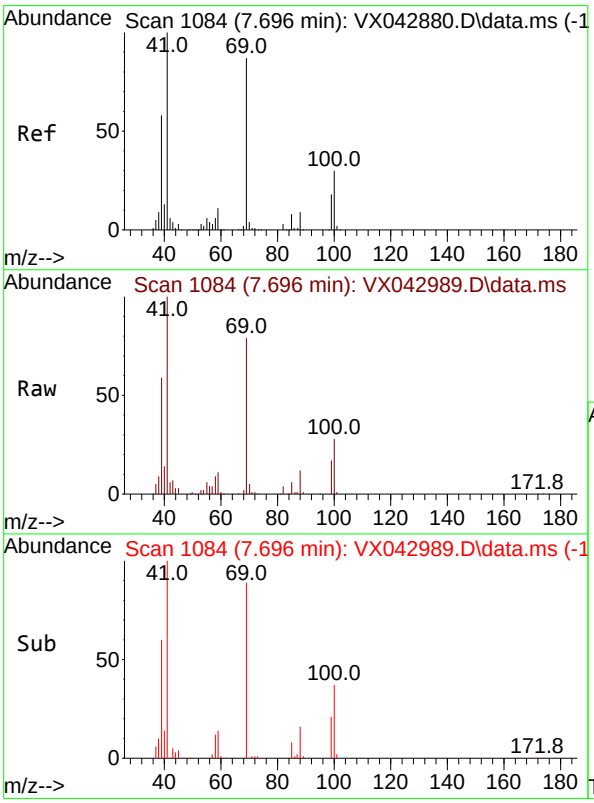
Ion	Ratio	Lower	Upper
83	100		
85	64.1	49.8	74.6
127	8.0	7.1	10.7



Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

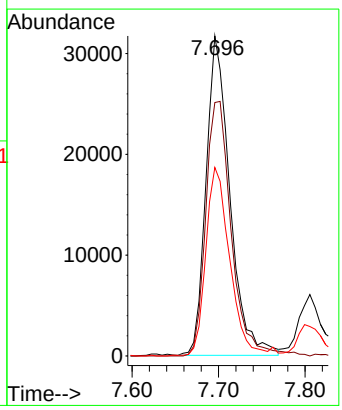
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

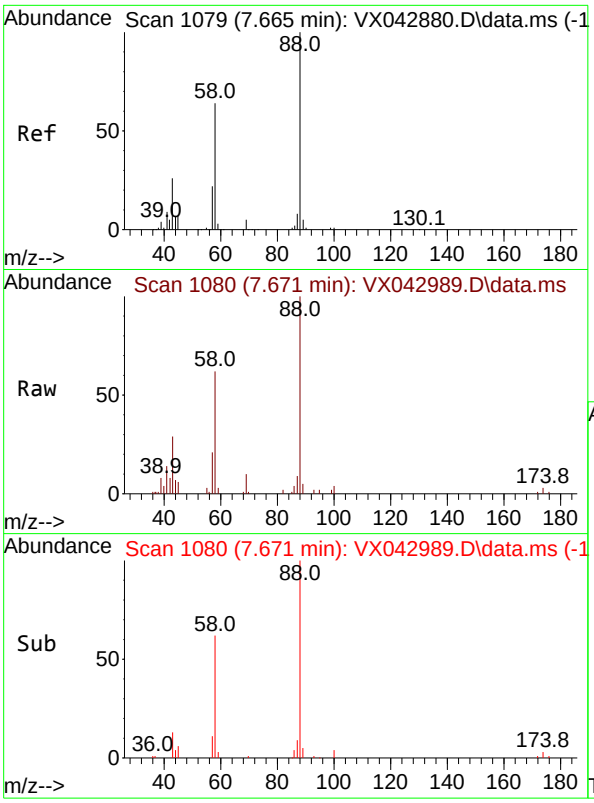


#48
Methyl methacrylate
Concen: 19.643 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 41 Resp: 60657

Ion	Ratio	Lower	Upper
41	100		
69	85.6	59.2	88.8
39	59.1	47.7	71.5





#49
1,4-Dioxane
Concen: 395.558 ug/l
RT: 7.671 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

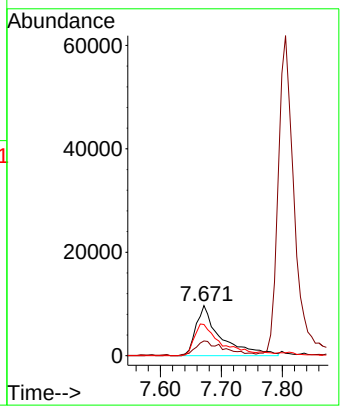
Tgt Ion: 88 Resp: 2711

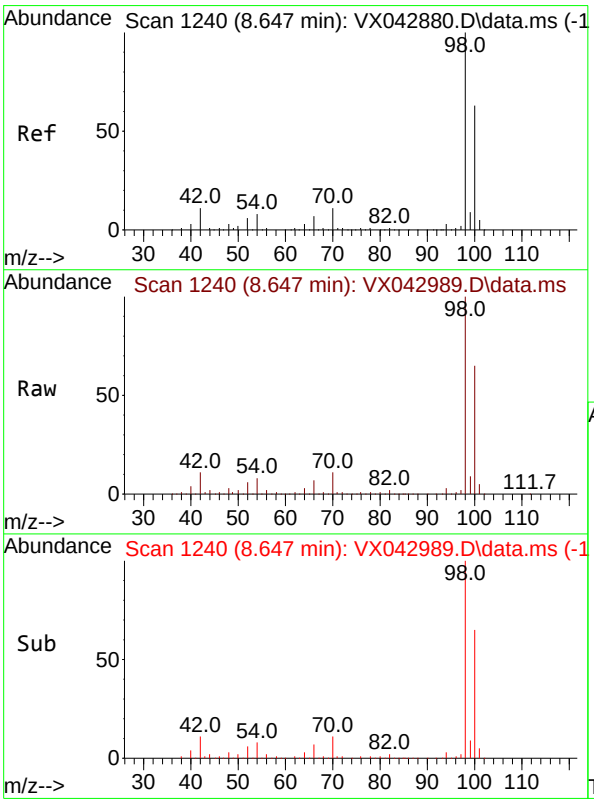
Ion	Ratio	Lower	Upper
88	100		
43	34.5	0.0	0.0
58	66.4	60.1	90.1

Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

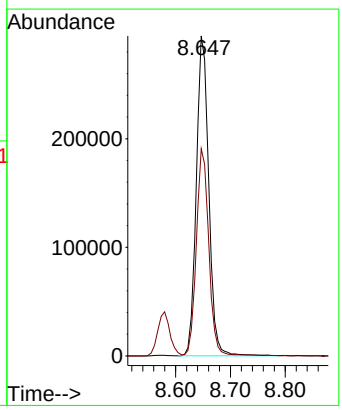


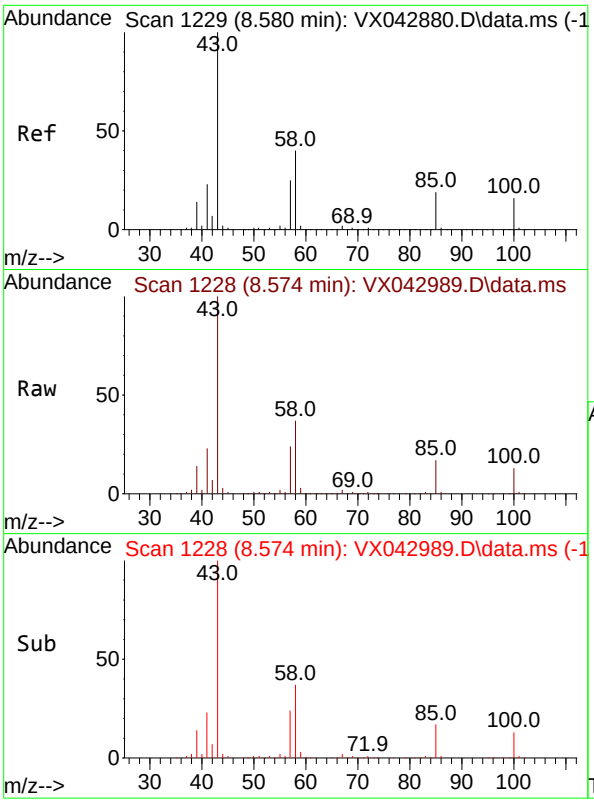


#50
Toluene-d8
Concen: 51.121 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 98 Resp: 465857

Ion	Ratio	Lower	Upper
98	100		
100	64.7	53.1	79.7

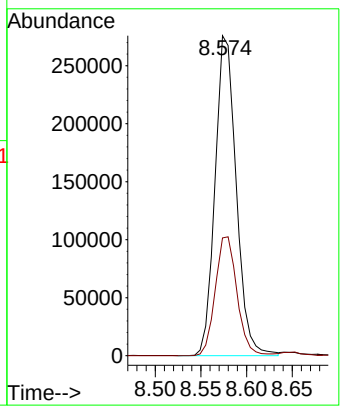




#51
4-Methyl-2-Pentanone
Concen: 103.324 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 43 Resp: 44571

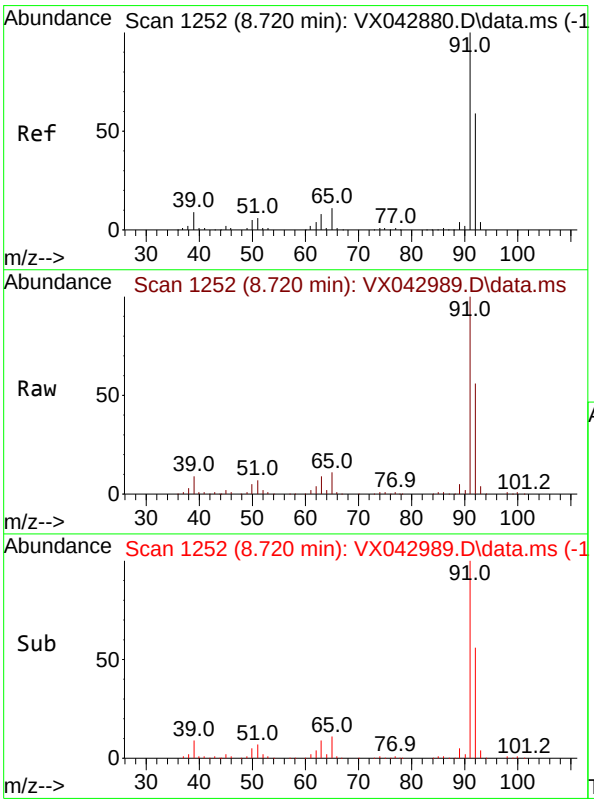
Ion	Ratio	Lower	Upper
43	100		
58	38.1	30.4	45.6



Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

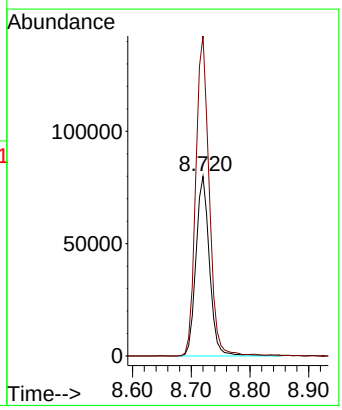
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

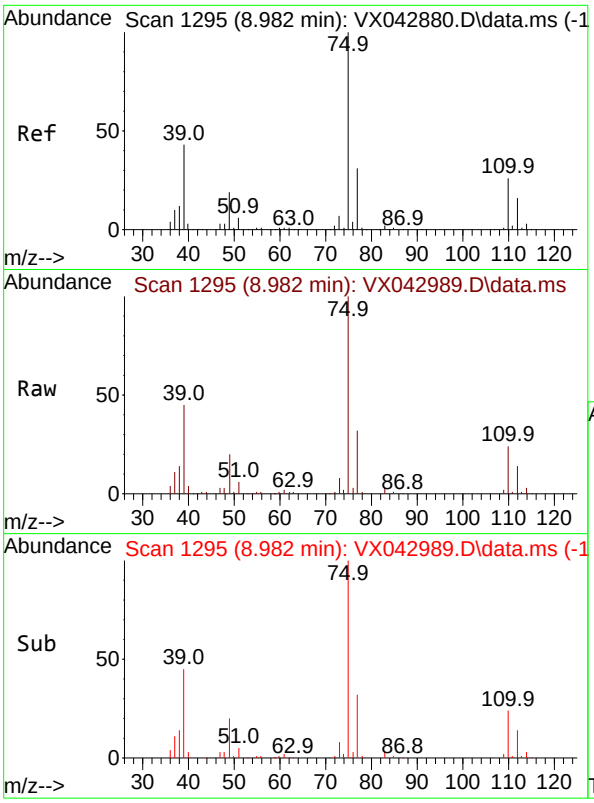


#52
Toluene
Concen: 19.527 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 92 Resp: 127942

Ion	Ratio	Lower	Upper
92	100		
91	176.1	134.2	201.2

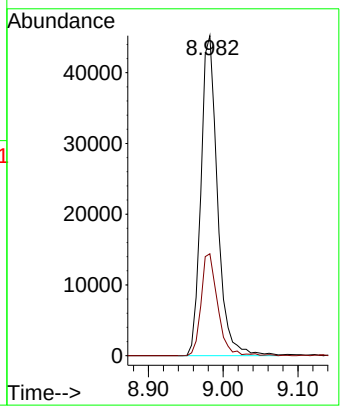




#53
t-1,3-Dichloropropene
Concen: 20.144 ug/l
RT: 8.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 75 Resp: 6961

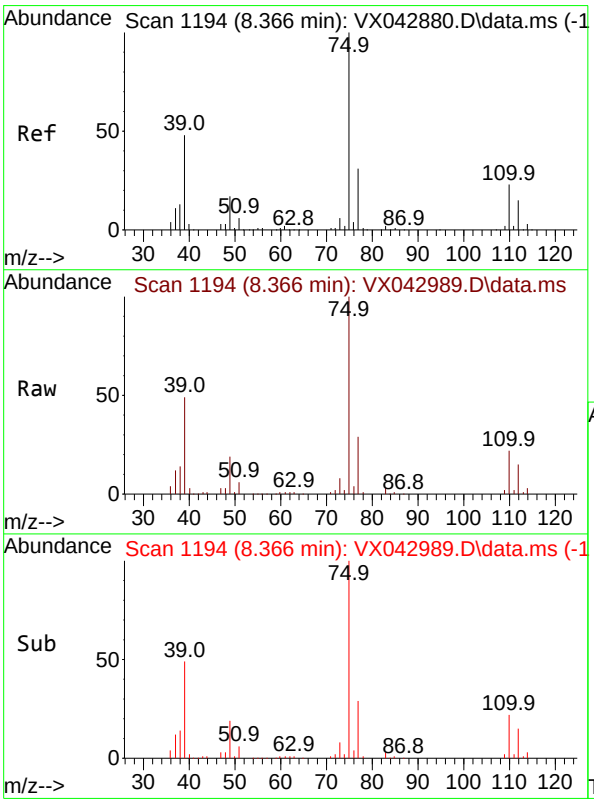
Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

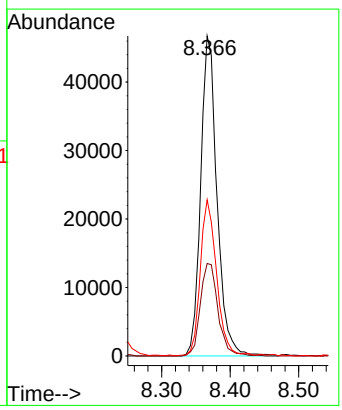
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

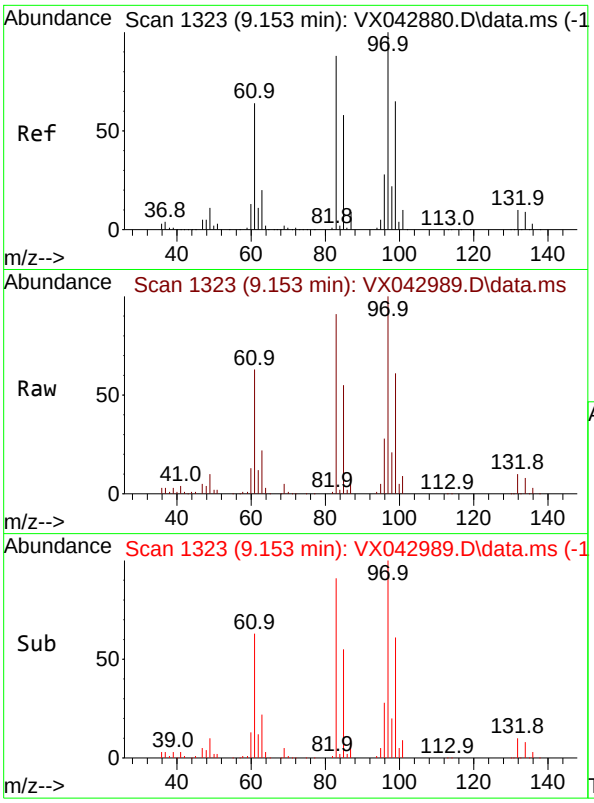


#54
cis-1,3-Dichloropropene
Concen: 20.331 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 75 Resp: 77594

Ion	Ratio	Lower	Upper
75	100		
77	28.9	25.3	37.9
39	48.7	46.7	70.1

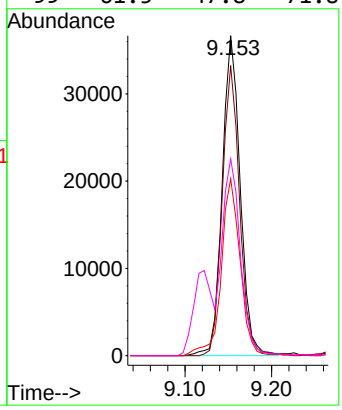




#55
1,1,2-Trichloroethane
Concen: 19.849 ug/l
RT: 9.153 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 97 Resp: 5287

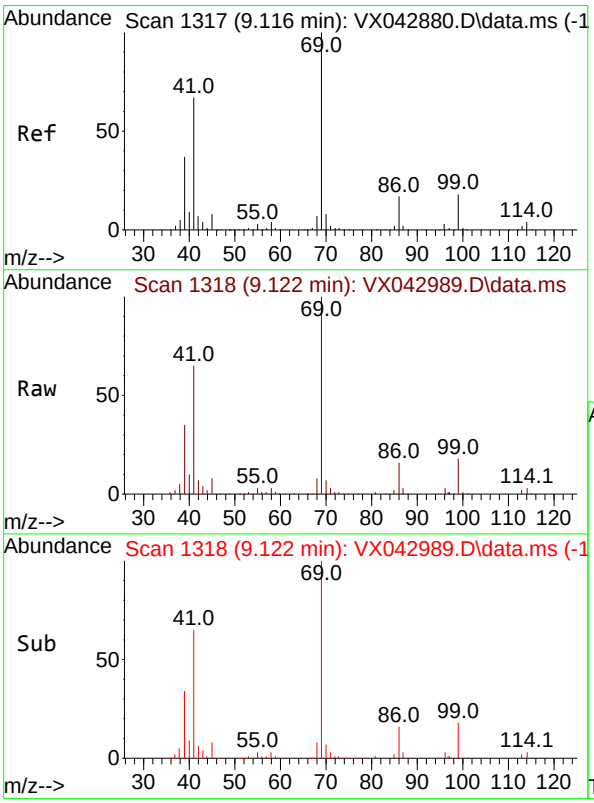
Ion	Ratio	Lower	Upper
97	100		
83	90.7	65.8	98.8
85	55.3	41.6	62.4
99	61.5	47.8	71.8



Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

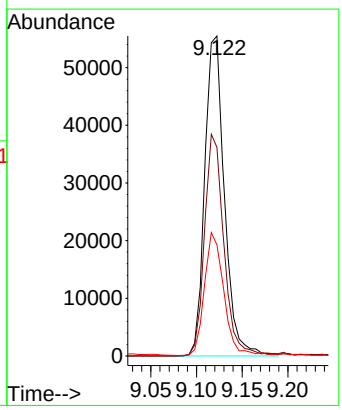
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

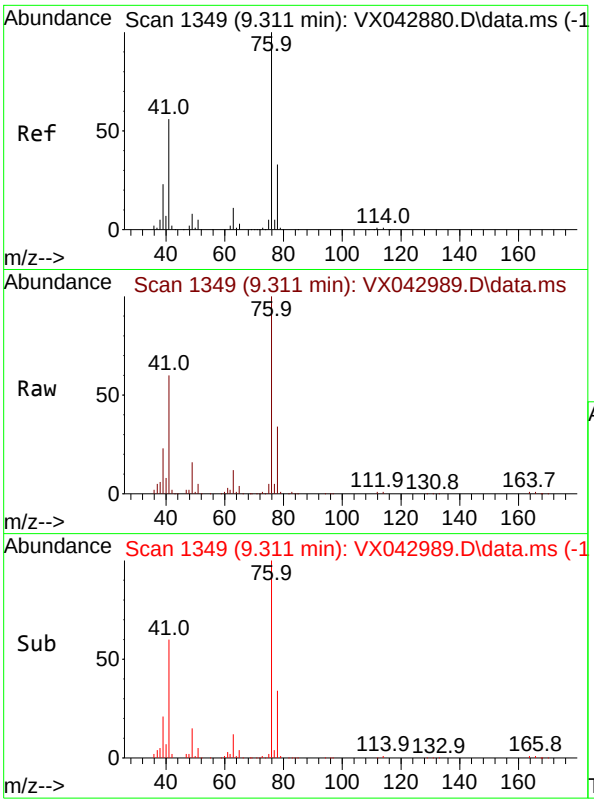


#56
Ethyl methacrylate
Concen: 19.385 ug/l
RT: 9.122 min Scan# 1318
Delta R.T. 0.006 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 69 Resp: 83087

Ion	Ratio	Lower	Upper
69	100		
41	68.2	56.8	85.2
39	37.7	32.0	48.0





#57
1,3-Dichloropropane
Concen: 19.699 ug/l
RT: 9.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

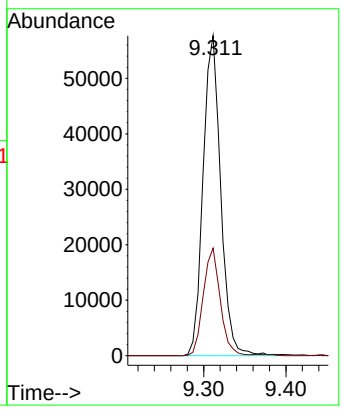
Tgt Ion: 76 Resp: 8595

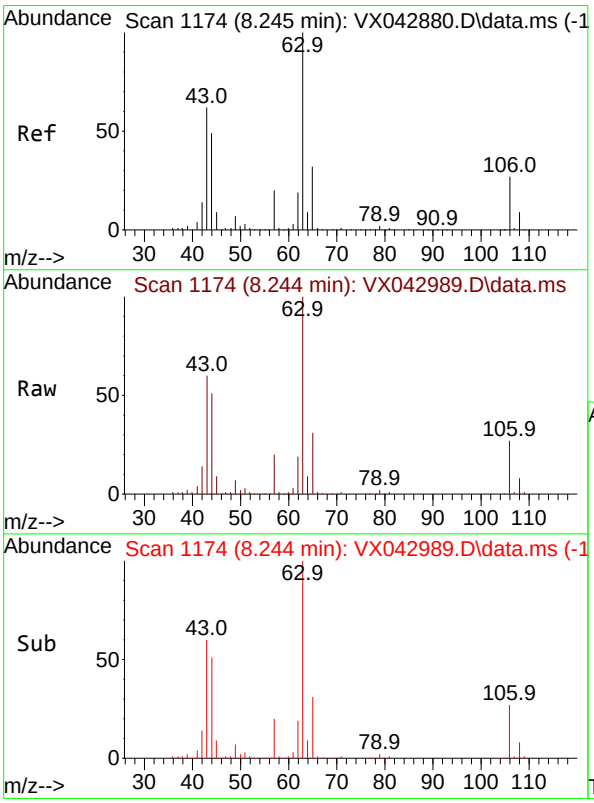
Ion	Ratio	Lower	Upper
76	100		
78	32.3	26.1	39.1

Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

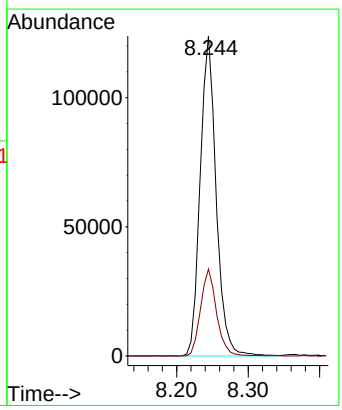


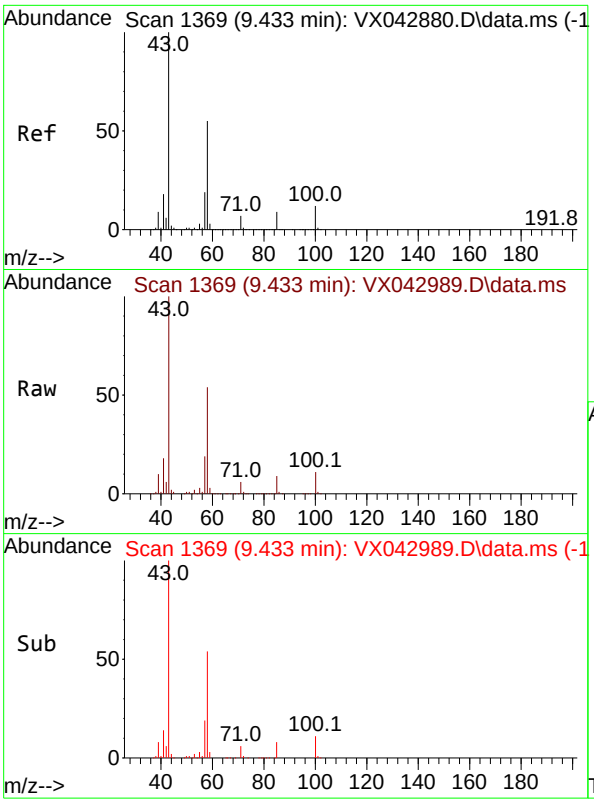


#58
2-Chloroethyl Vinyl ether
Concen: 95.108 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 63 Resp: 192128

Ion	Ratio	Lower	Upper
63	100		
106	27.1	22.5	33.7





#59
2-Hexanone
Concen: 102.535 ug/l
RT: 9.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

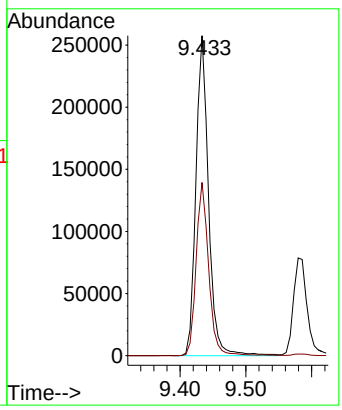
Tgt Ion: 43 Resp: 34273

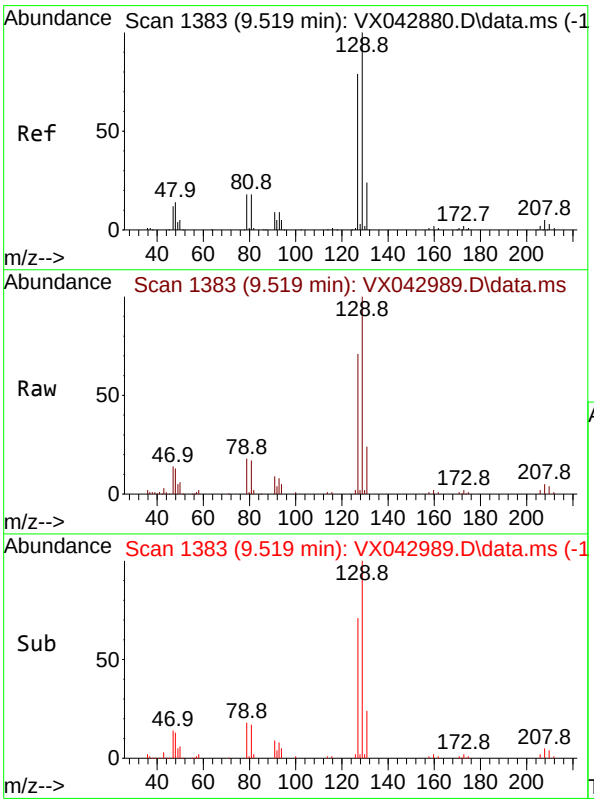
Ion	Ratio	Lower	Upper
43	100		
58	53.8	26.2	78.5

Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

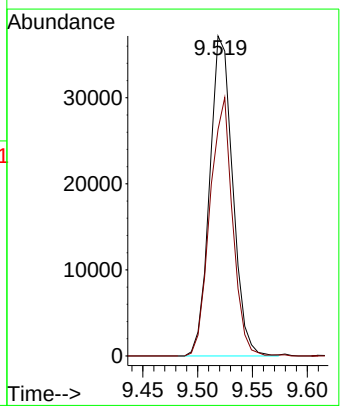


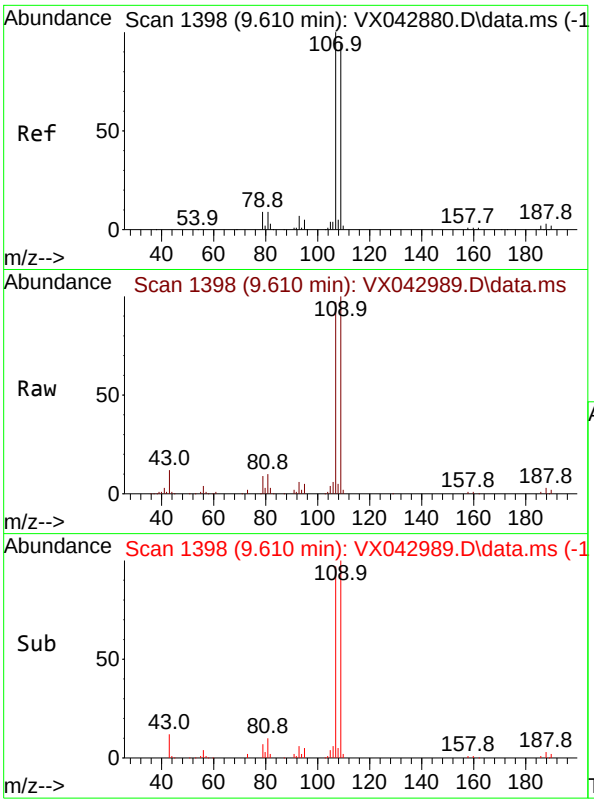


#60
Dibromochloromethane
Concen: 18.551 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion:129 Resp: 54279

Ion	Ratio	Lower	Upper
129	100		
127	79.4	38.8	116.4





#61
1,2-Dibromoethane
Concen: 19.809 ug/l
RT: 9.610 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

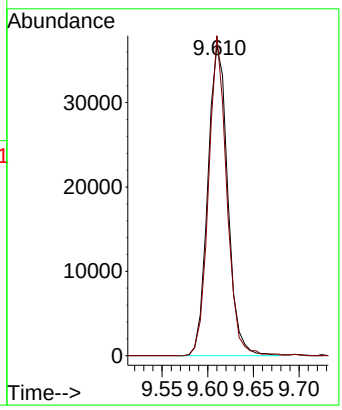
Tgt Ion:107 Resp: 5574

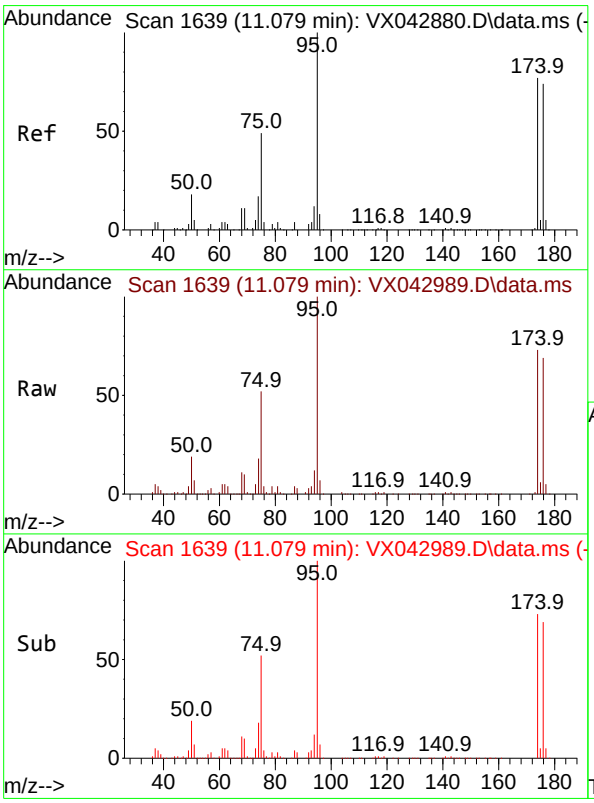
Ion	Ratio	Lower	Upper
107	100		
109	93.8	75.2	112.8

Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

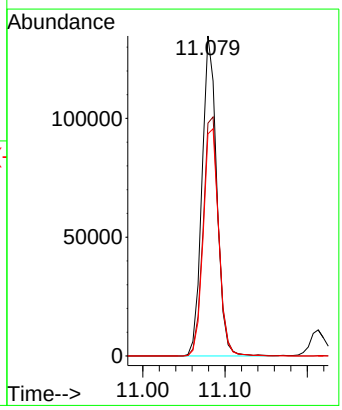


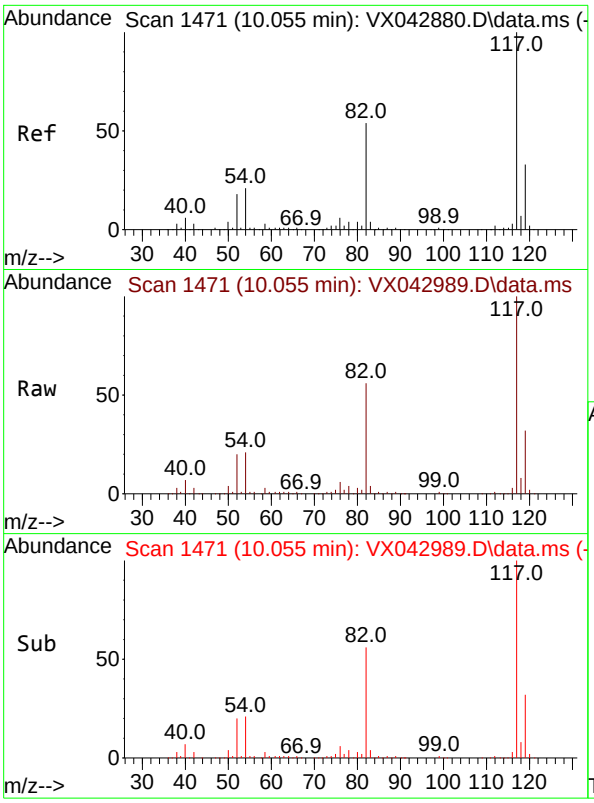


#62
4-Bromofluorobenzene
Concen: 51.225 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 95 Resp: 167747

Ion	Ratio	Lower	Upper
95	100		
174	78.8	0.0	135.6
176	74.7	0.0	131.0

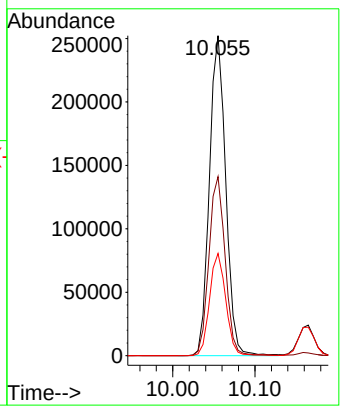




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion:117 Resp: 34784

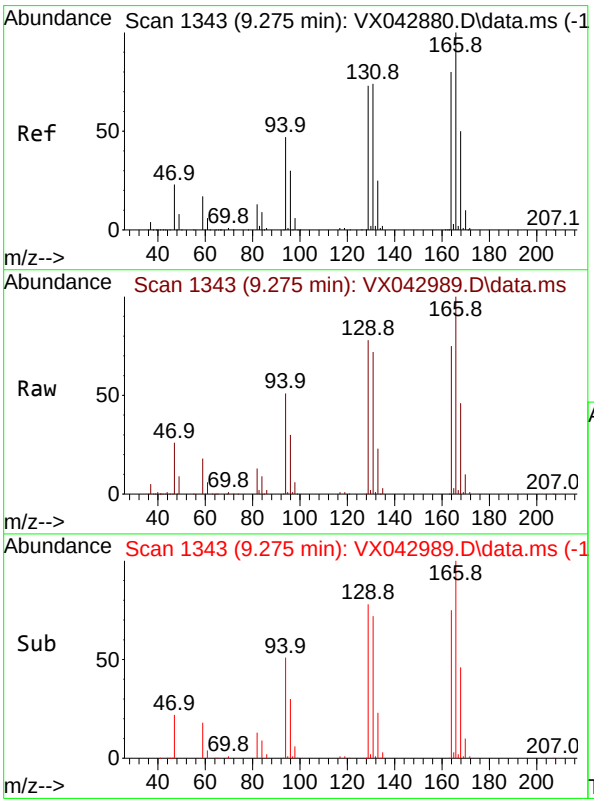
Ion	Ratio	Lower	Upper
117	100		
82	56.0	46.2	69.4
119	31.9	25.5	38.3



Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

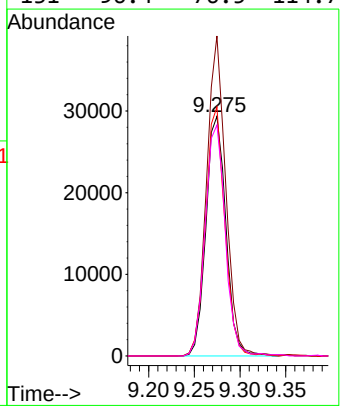
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

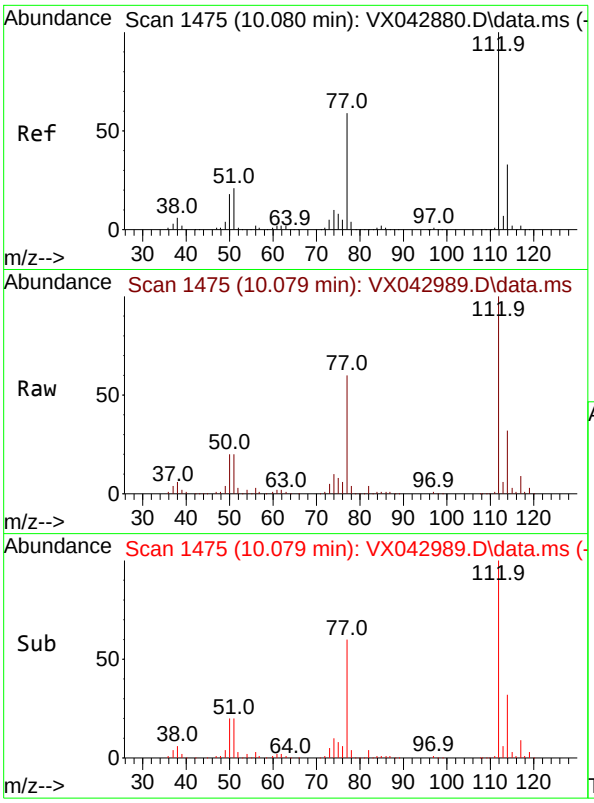


#64
Tetrachloroethene
Concen: 18.361 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion:164 Resp: 44408

Ion	Ratio	Lower	Upper
164	100		
166	133.6	102.7	154.1
129	104.0	80.4	120.6
131	96.4	76.5	114.7

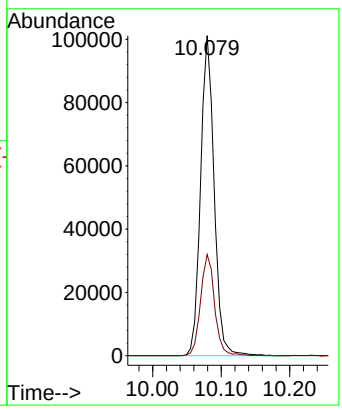




#65
Chlorobenzene
Concen: 18.877 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion:112 Resp: 13933

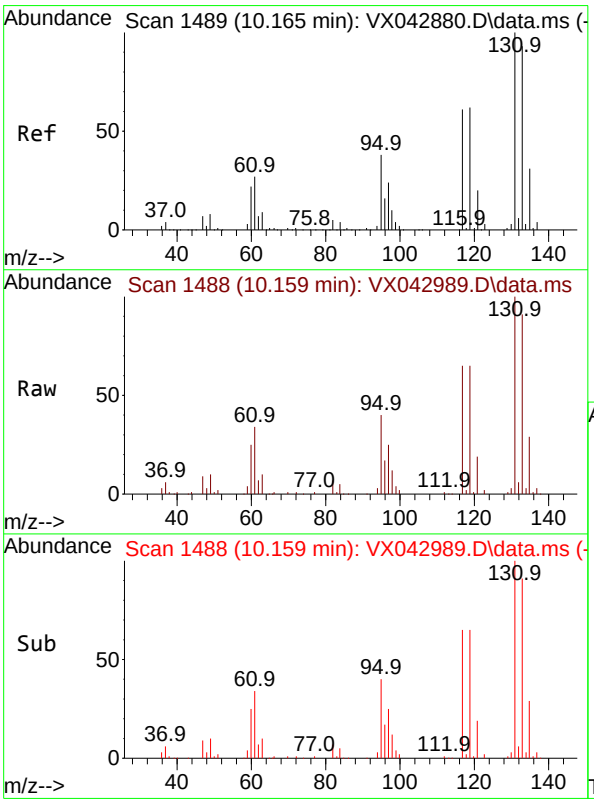
Ion	Ratio	Lower	Upper
112	100		
114	31.6	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

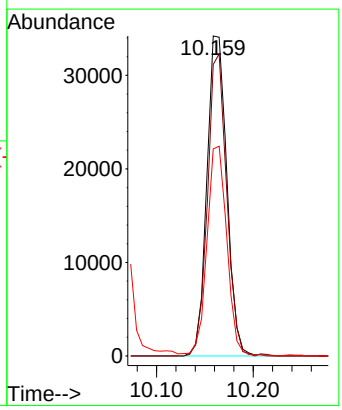
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

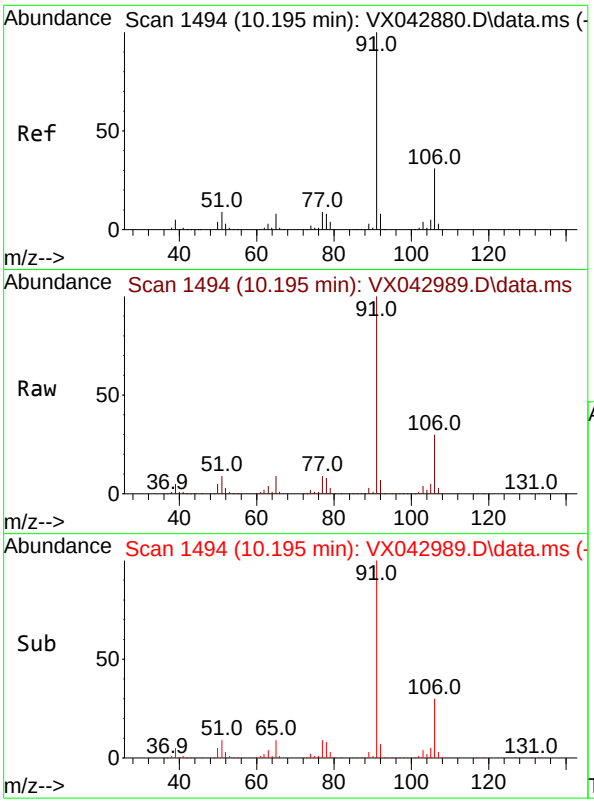


#66
1,1,1,2-Tetrachloroethane
Concen: 19.268 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.006 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion:131 Resp: 49042

Ion	Ratio	Lower	Upper
131	100		
133	90.7	47.1	141.4
119	65.5	32.2	96.6





#67
Ethyl Benzene
Concen: 19.433 ug/l
RT: 10.195 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

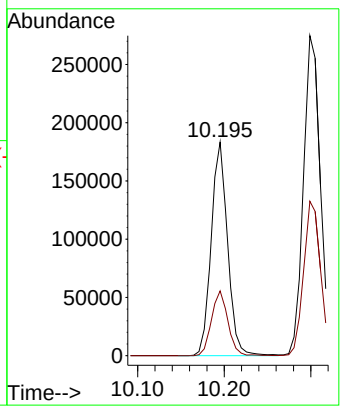
Tgt Ion: 91 Resp: 24127

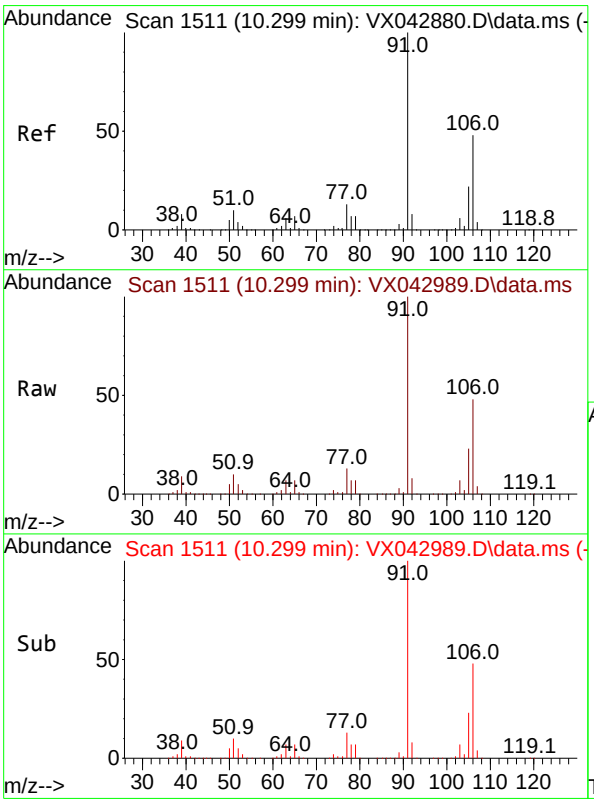
Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.9	37.3

Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

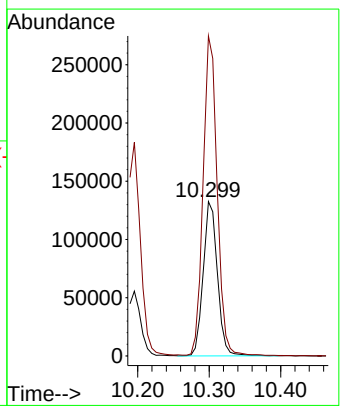


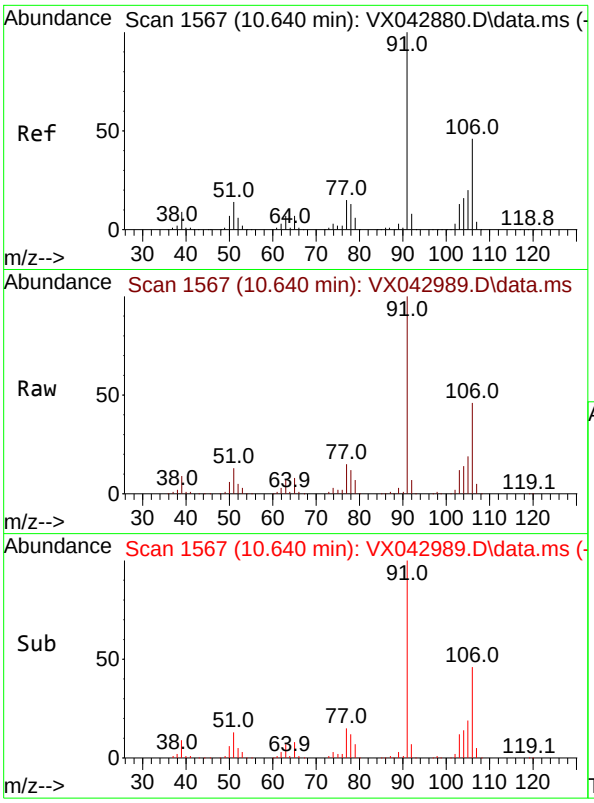


#68
m/p-Xylenes
Concen: 38.537 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion:106 Resp: 182665

Ion	Ratio	Lower	Upper
106	100		
91	206.4	165.5	248.3

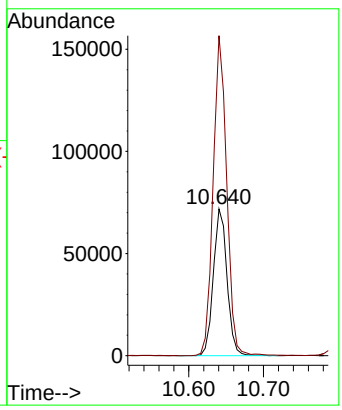




#69
o-Xylene
Concen: 19.246 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion:106 Resp: 9138

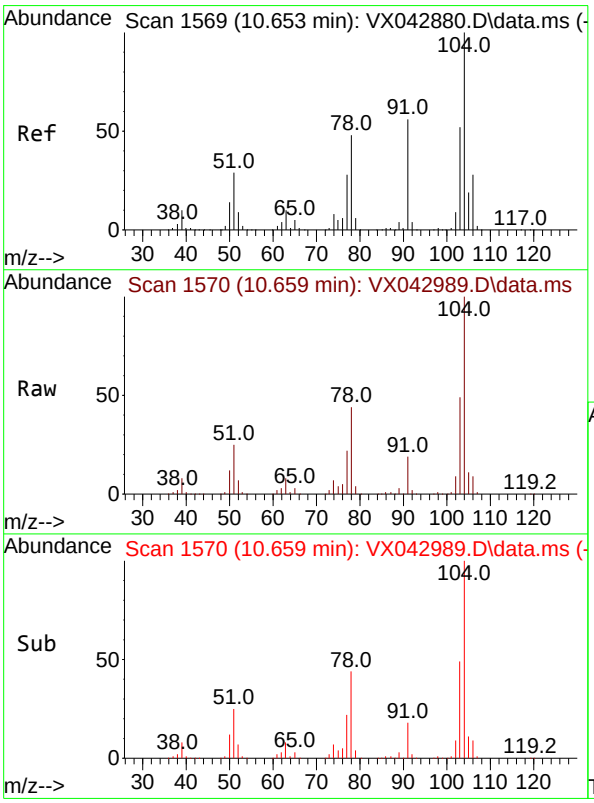
Ion	Ratio	Lower	Upper
106	100		
91	216.0	108.9	326.8



Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

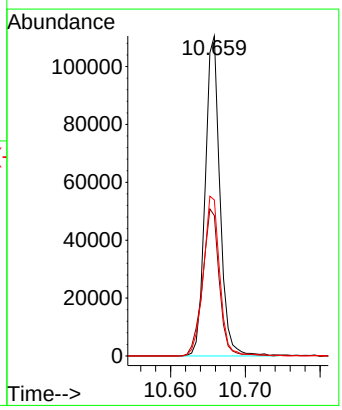
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

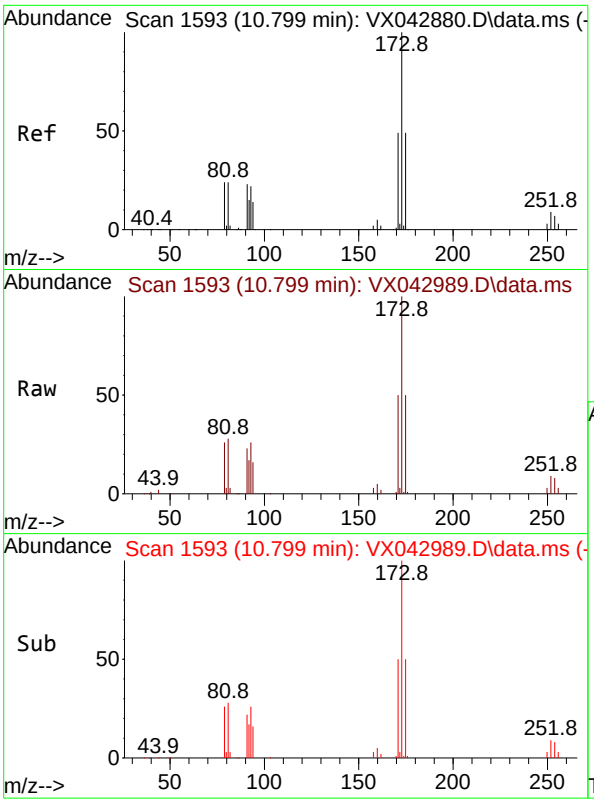


#70
Styrene
Concen: 19.871 ug/l
RT: 10.659 min Scan# 1570
Delta R.T. 0.006 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion:104 Resp: 151726

Ion	Ratio	Lower	Upper
104	100		
78	51.9	43.6	65.4
103	55.3	43.6	65.4

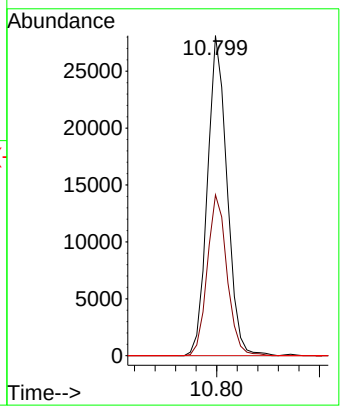




#71
Bromoform
Concen: 18.243 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion:173 Resp: 3723

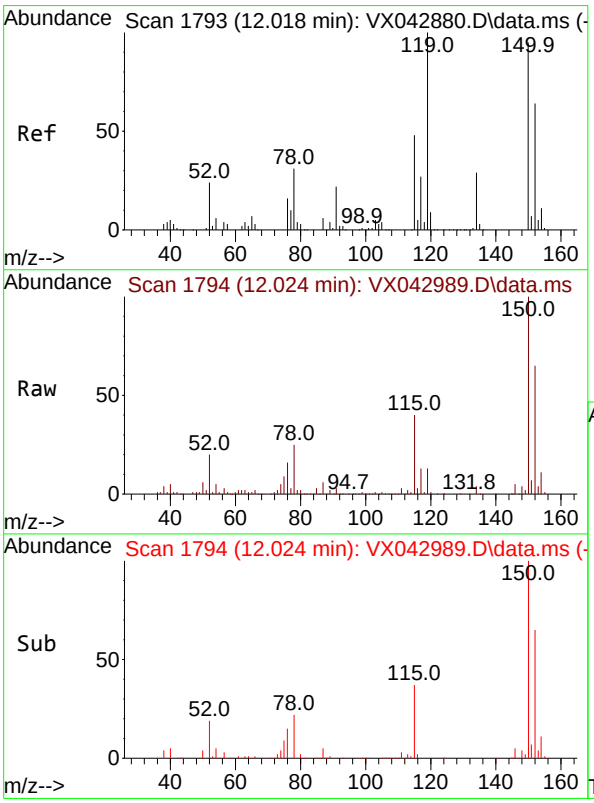
Ion	Ratio	Lower	Upper
173	100		
175	50.6	24.1	72.4
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

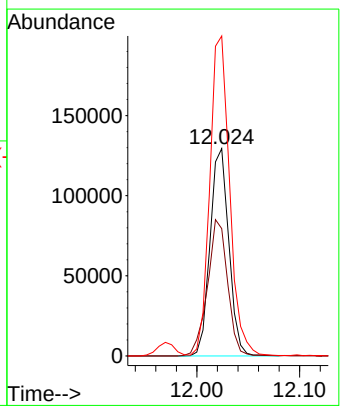
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

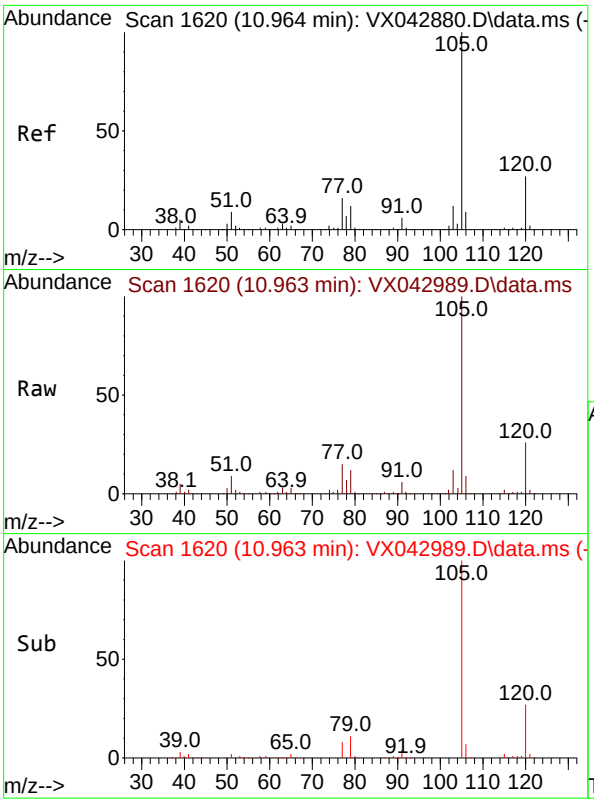


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion:152 Resp: 163980

Ion	Ratio	Lower	Upper
152	100		
115	70.7	43.3	129.9
150	162.8	0.0	345.0

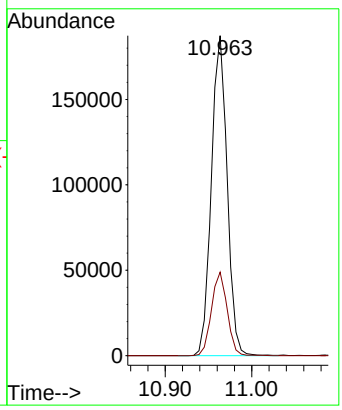




#73
Isopropylbenzene
Concen: 19.999 ug/l
RT: 10.963 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion:105 Resp: 23709

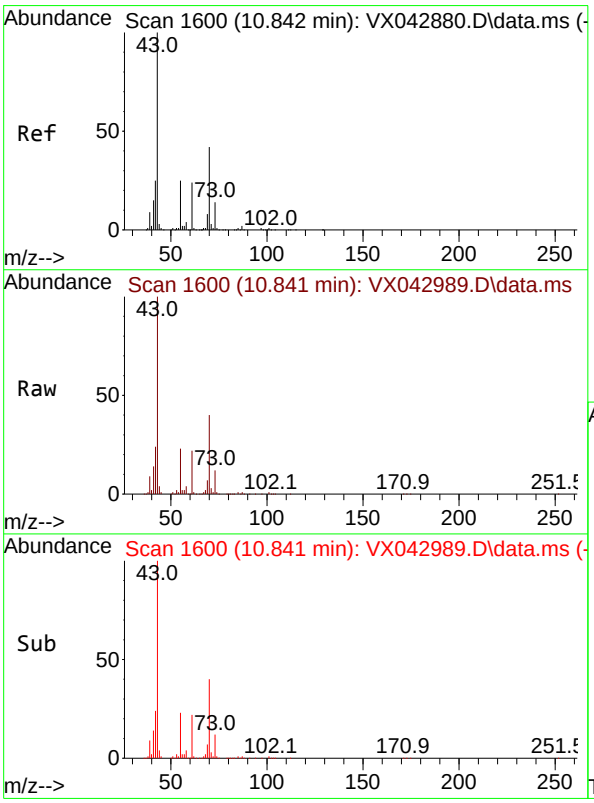
Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.9	38.6



Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

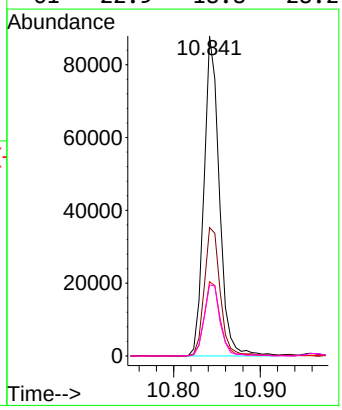
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

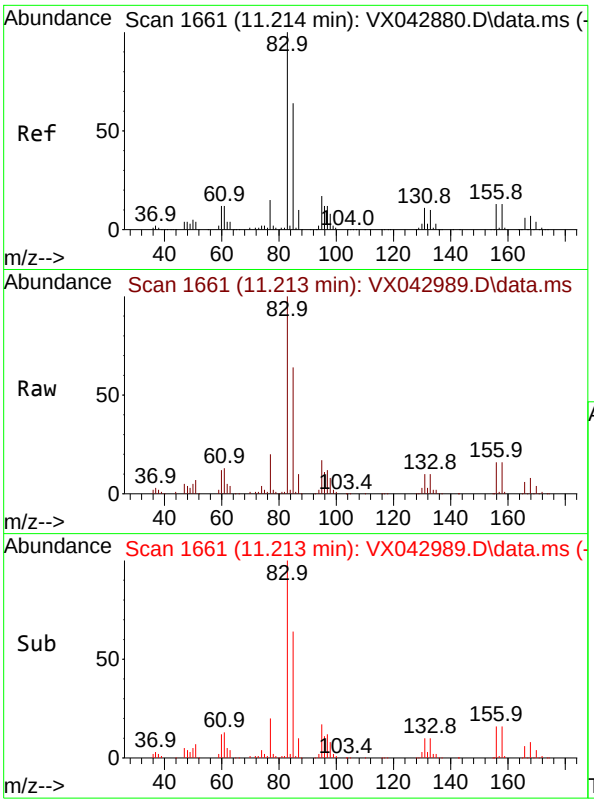


#74
N-amyl acetate
Concen: 20.366 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 43 Resp: 108640

Ion	Ratio	Lower	Upper
43	100		
70	41.6	32.9	49.3
55	24.3	19.3	28.9
61	22.9	18.8	28.2

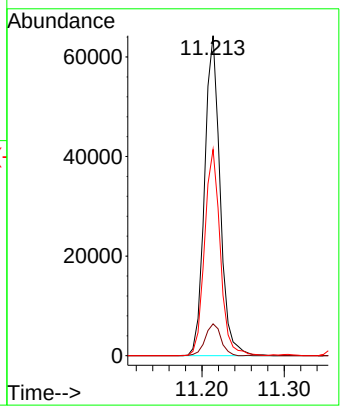




#75
1,1,2,2-Tetrachloroethane
Concen: 19.366 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 83 Resp: 8411

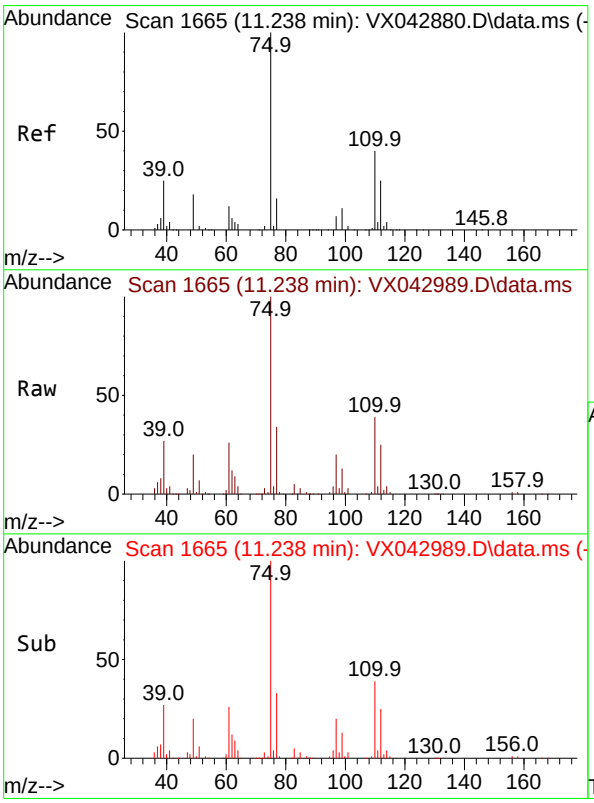
Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.3	15.8
85	65.2	32.0	96.2



Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

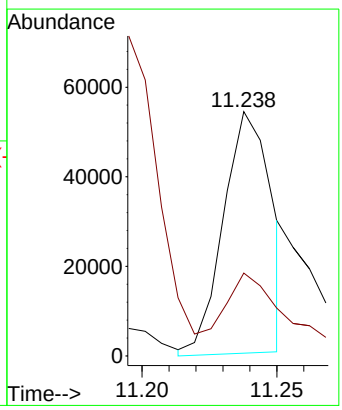
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

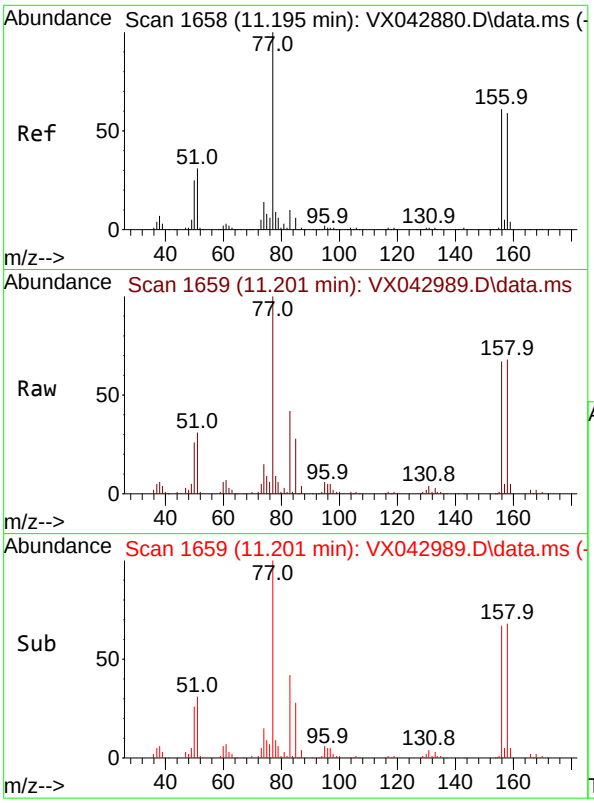


#76
1,2,3-Trichloropropane
Concen: 18.205 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 75 Resp: 67139

Ion	Ratio	Lower	Upper
75	100		
77	45.0	19.1	57.5





#77
Bromobenzene
Concen: 18.938 ug/l
RT: 11.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

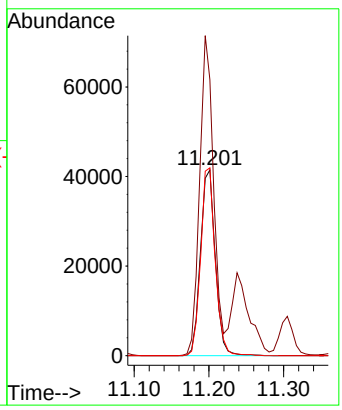
Tgt Ion:156 Resp: 5711

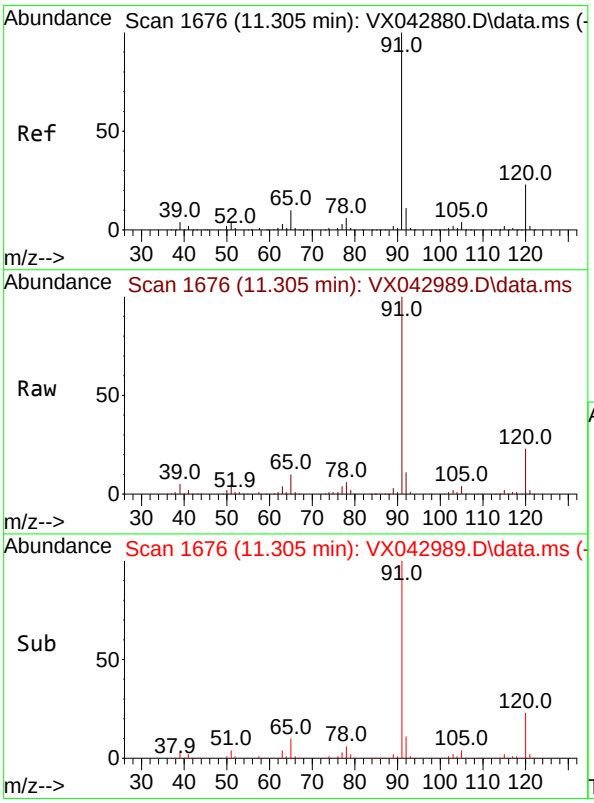
Ion	Ratio	Lower	Upper
156	100		
77	161.6	88.4	265.3
158	99.0	48.0	144.0

Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

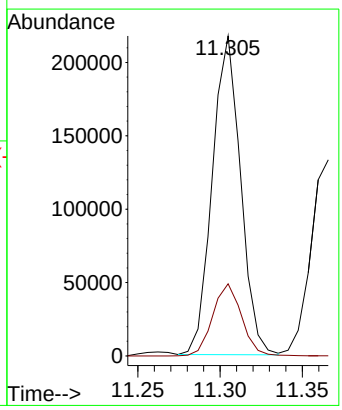


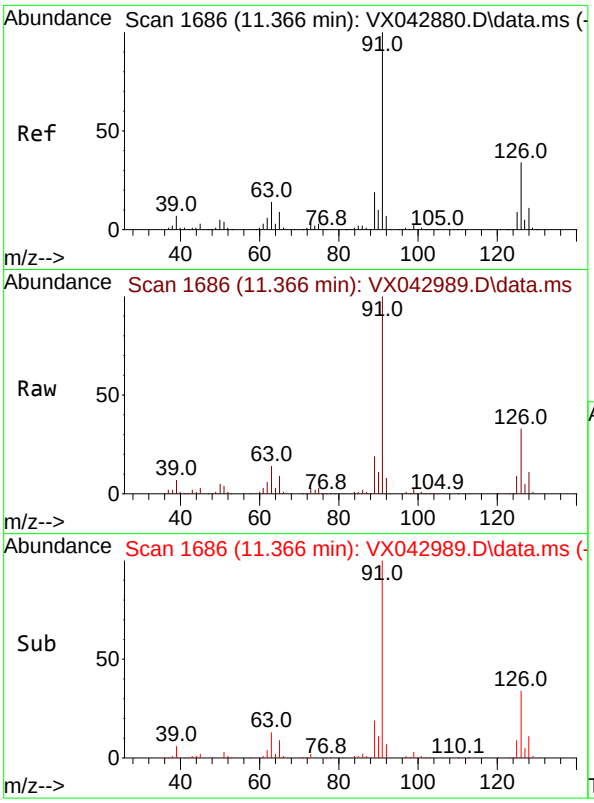


#78
n-propylbenzene
Concen: 19.754 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 91 Resp: 260142

Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.5	34.4

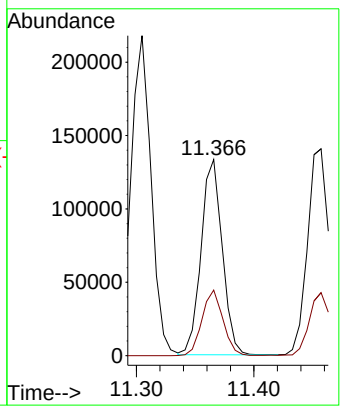




#79
2-Chlorotoluene
Concen: 19.702 ug/l
RT: 11.366 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 91 Resp: 16629

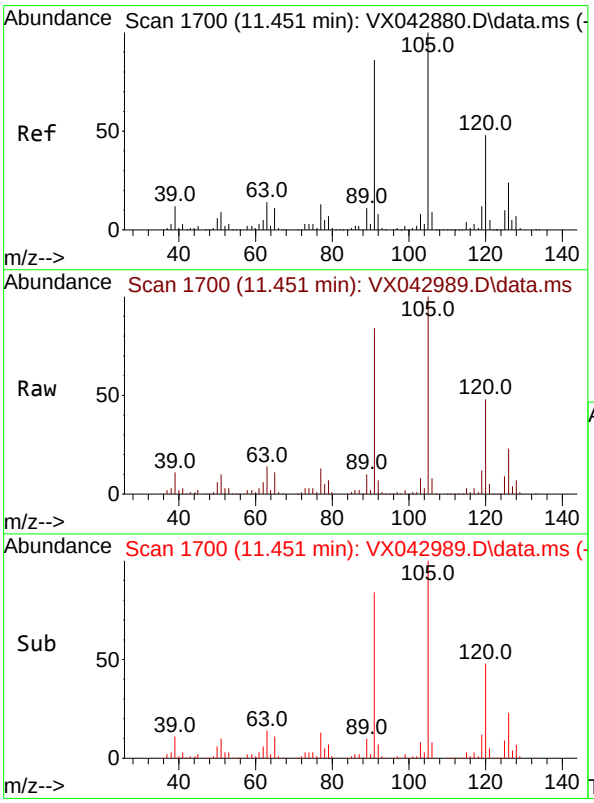
Ion	Ratio	Lower	Upper
91	100		
126	33.4	16.3	48.8



Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

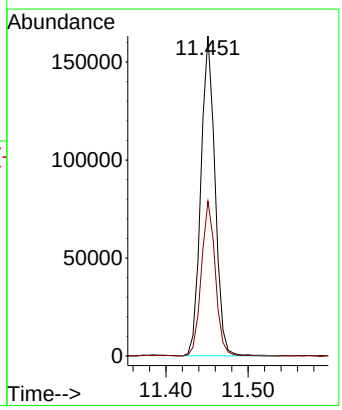
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

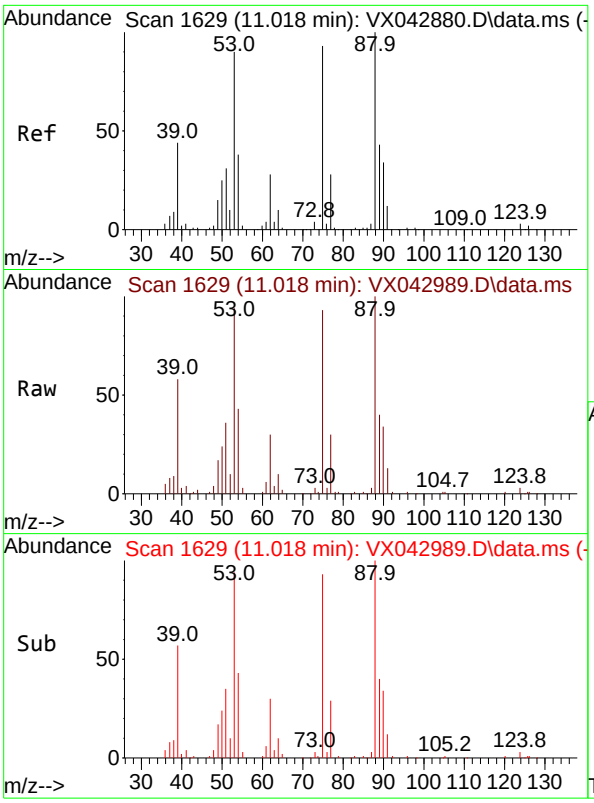


#80
1,3,5-Trimethylbenzene
Concen: 19.825 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion:105 Resp: 194619

Ion	Ratio	Lower	Upper
105	100		
120	47.9	24.1	72.3





#81
trans-1,4-Dichloro-2-butene
Concen: 20.421 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

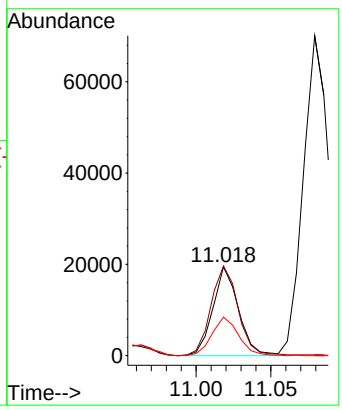
Tgt Ion: 75 Resp: 2316

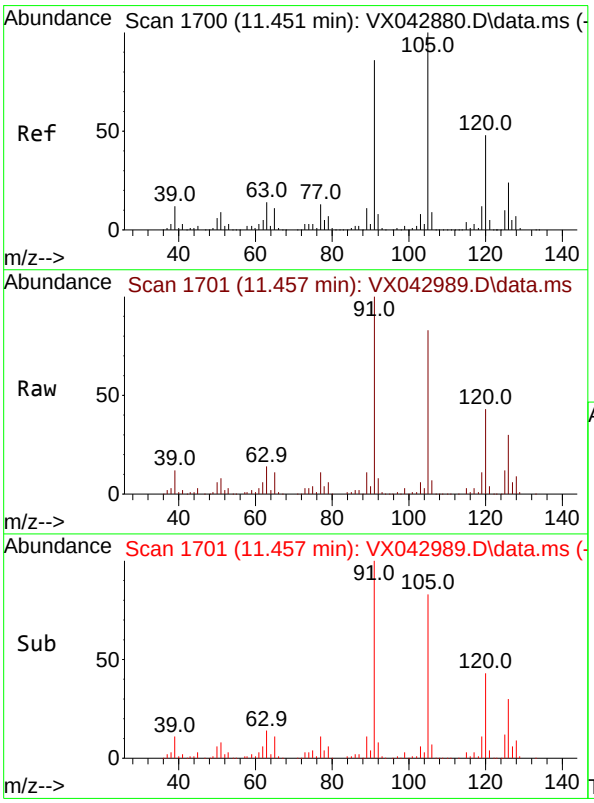
Ion	Ratio	Lower	Upper
75	100		
53	107.0	90.5	135.7
89	45.3	36.9	55.3

Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

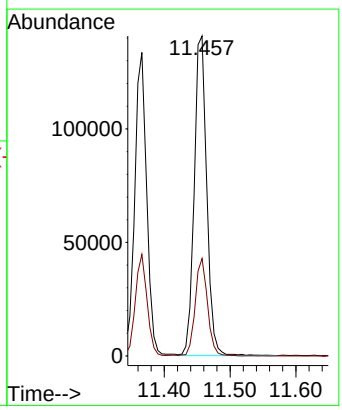


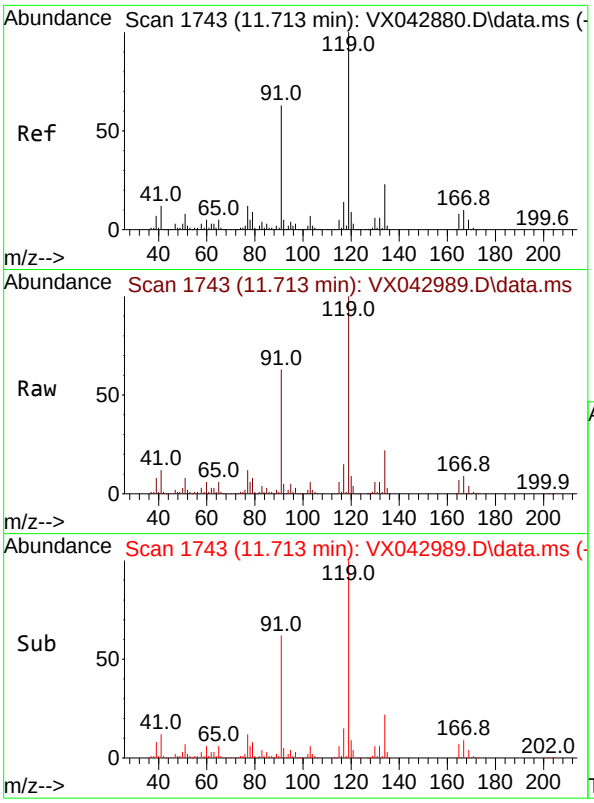


#82
4-Chlorotoluene
Concen: 19.620 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 91 Resp: 186137

Ion	Ratio	Lower	Upper
91	100		
126	30.1	14.2	42.6

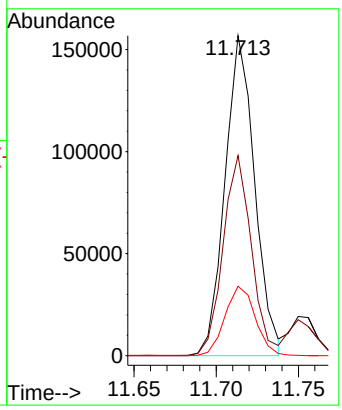




#83
tert-Butylbenzene
Concen: 19.551 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion:119 Resp: 19723

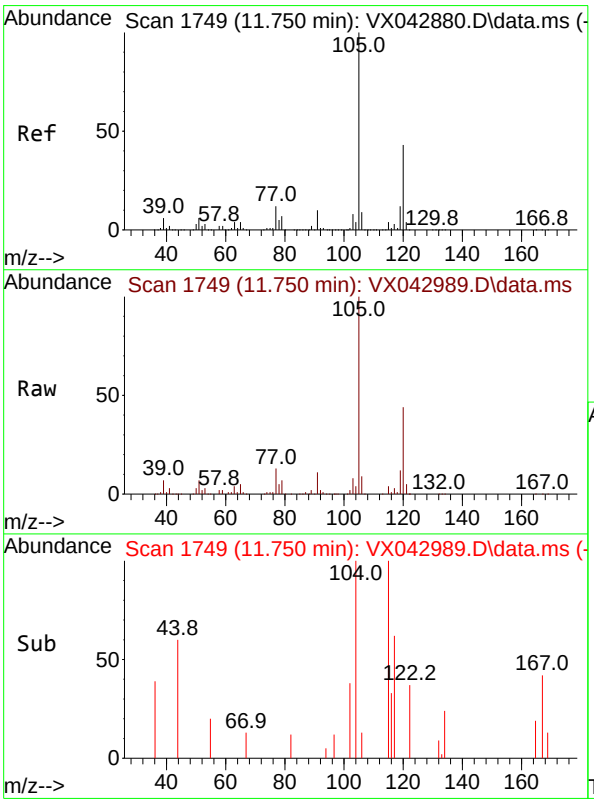
Ion	Ratio	Lower	Upper
119	100		
91	59.8	31.2	93.6
134	22.2	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

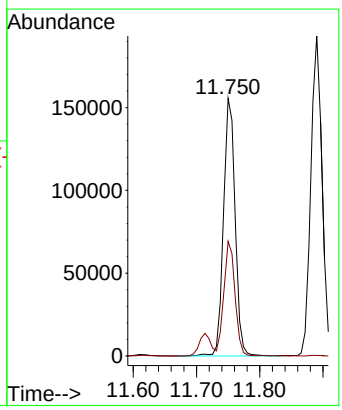
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

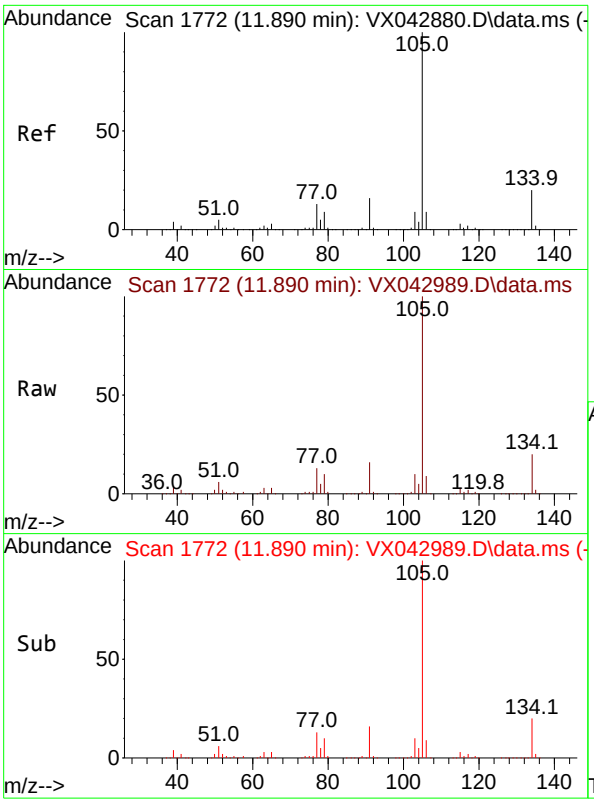


#84
1,2,4-Trimethylbenzene
Concen: 20.042 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion:105 Resp: 198069

Ion	Ratio	Lower	Upper
105	100		
120	42.8	21.2	63.6





#85
sec-Butylbenzene
Concen: 19.933 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

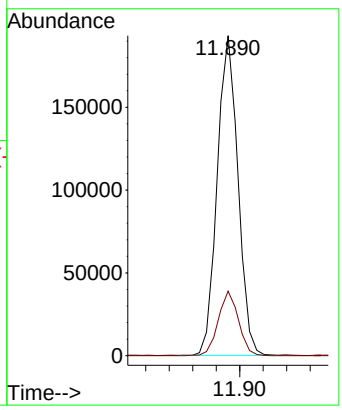
Tgt Ion:105 Resp: 23679

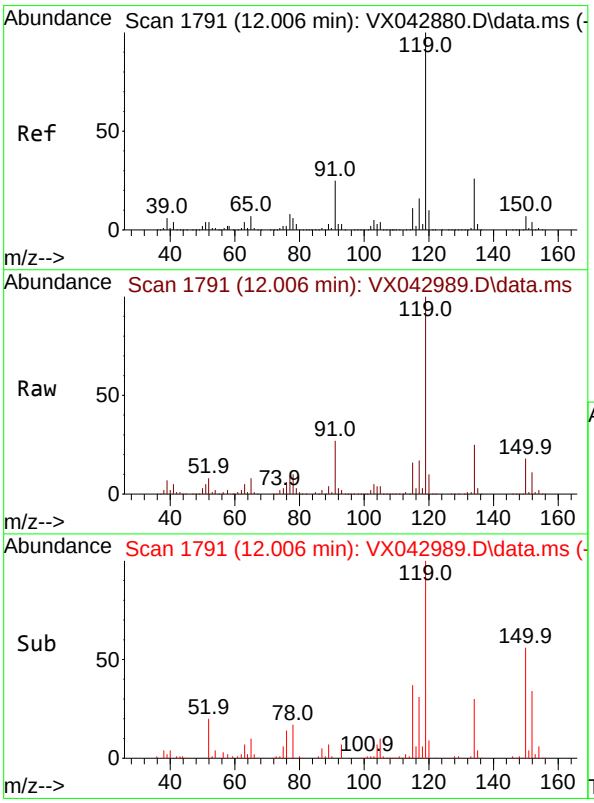
Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.4

Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

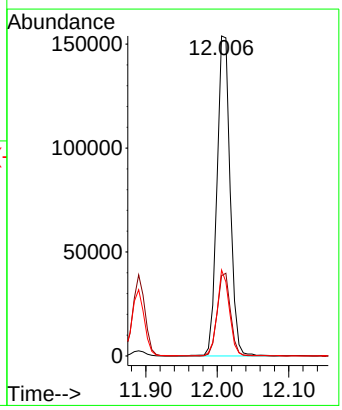


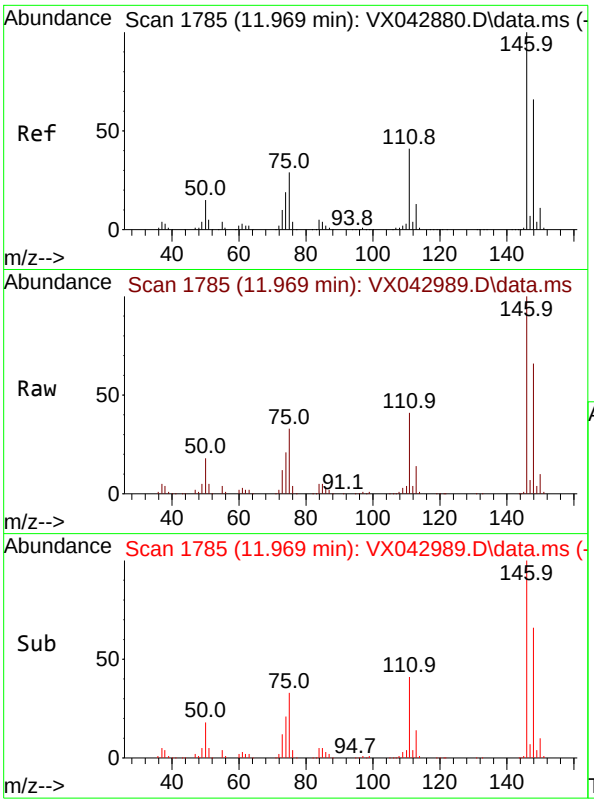


#86
p-Isopropyltoluene
Concen: 19.899 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion:119 Resp: 196392

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.8	38.3
91	24.7	13.1	39.3

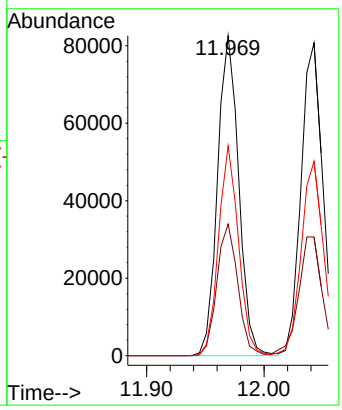




#87
1,3-Dichlorobenzene
Concen: 18.990 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion:146 Resp: 10364

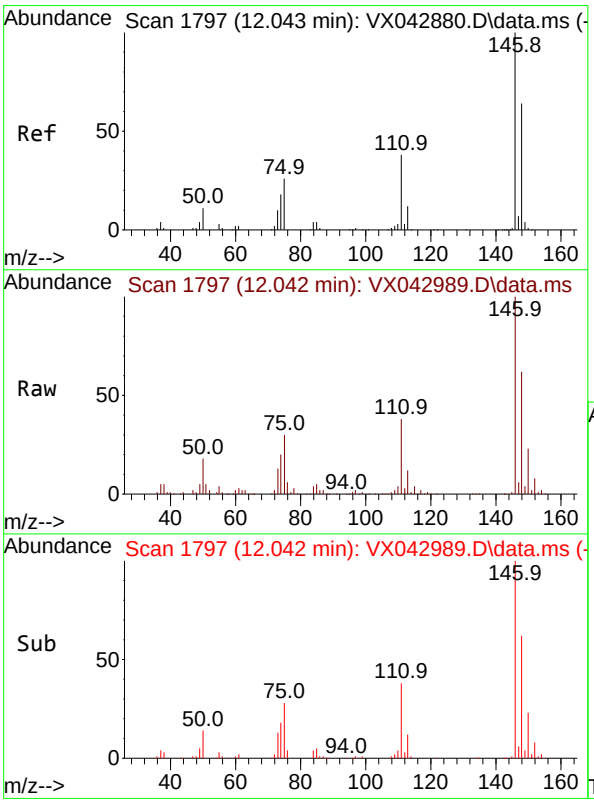
Ion	Ratio	Lower	Upper
146	100		
111	40.6	22.1	66.1
148	62.1	31.8	95.3



Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

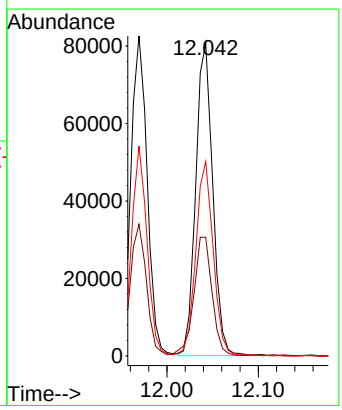
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

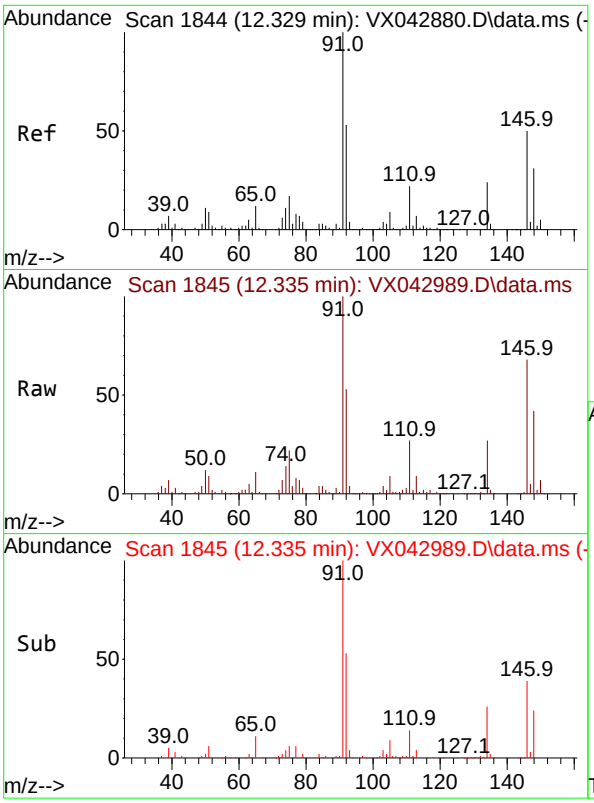


#88
1,4-Dichlorobenzene
Concen: 18.690 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion:146 Resp: 104558

Ion	Ratio	Lower	Upper
146	100		
111	40.7	21.3	63.7
148	64.2	31.8	95.4





#89
n-Butylbenzene
Concen: 18.897 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

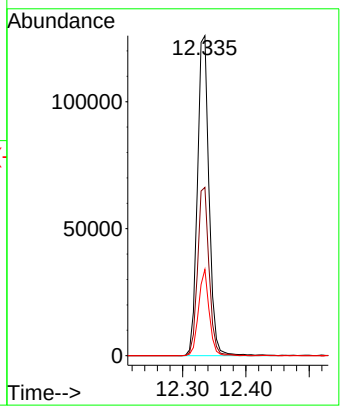
Tgt Ion: 91 Resp: 160900

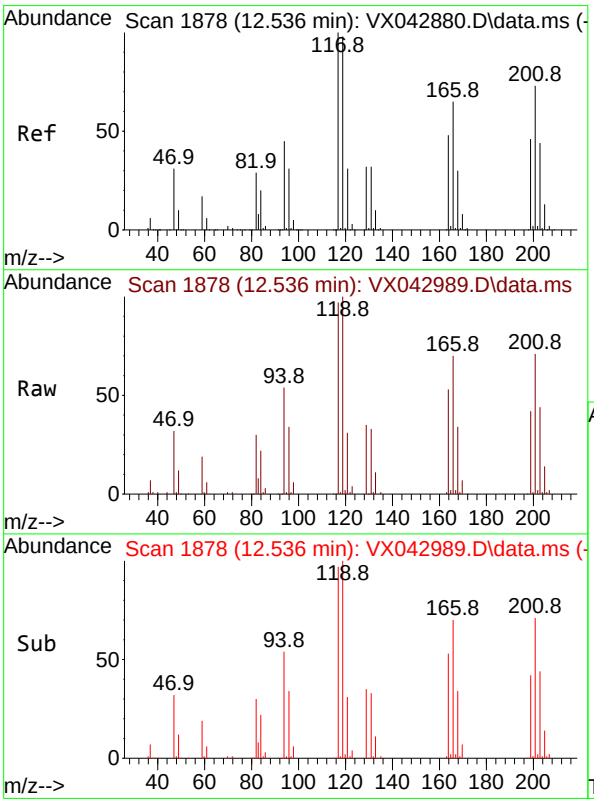
Ion	Ratio	Lower	Upper
91	100		
92	51.9	27.4	82.0
134	24.7	12.6	37.8

Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

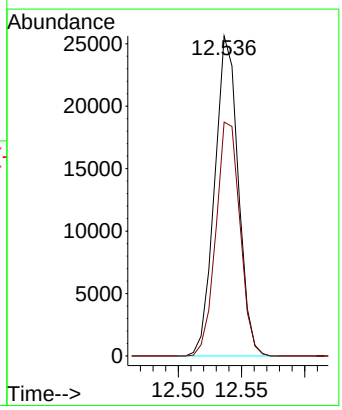


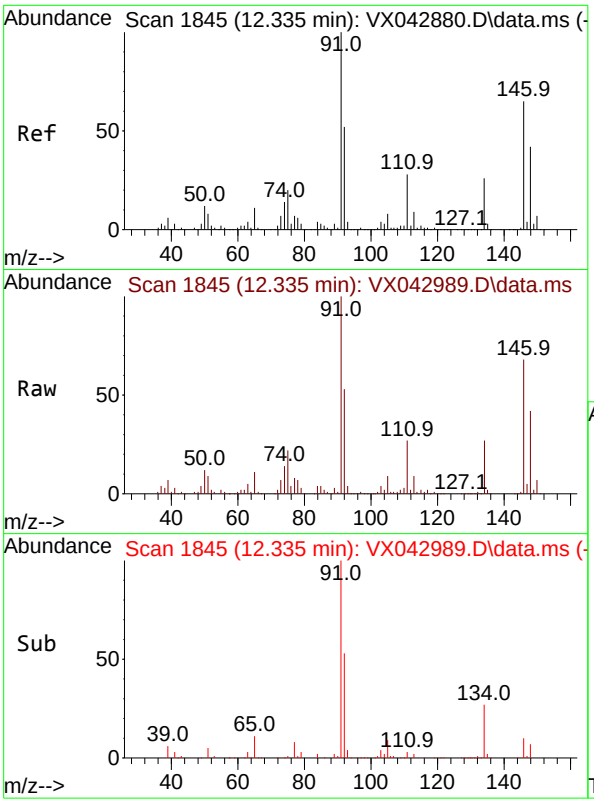


#90
Hexachloroethane
Concen: 18.358 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion:117 Resp: 33143

Ion	Ratio	Lower	Upper
117	100		
201	74.7	32.9	98.6

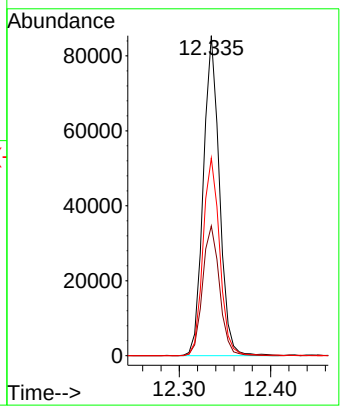




#91
1,2-Dichlorobenzene
Concen: 19.138 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion:146 Resp: 10459

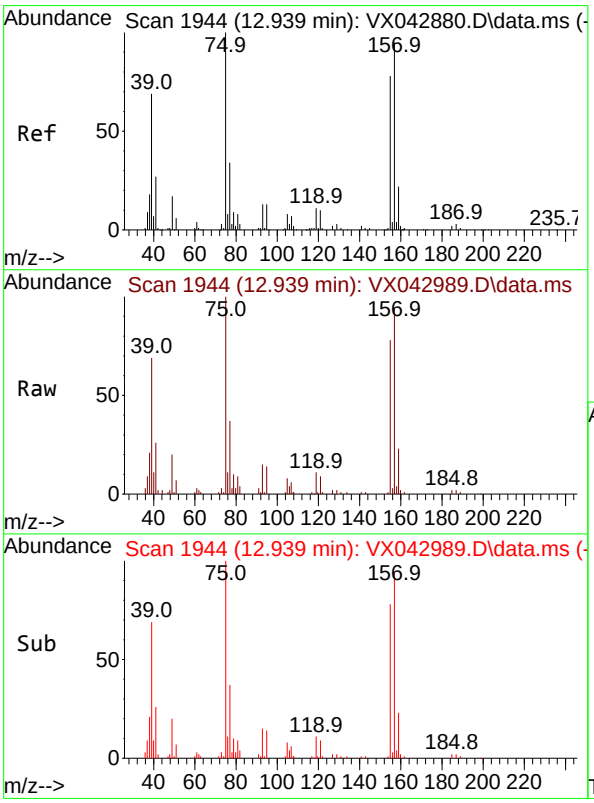
Ion	Ratio	Lower	Upper
146	100		
111	42.7	22.4	67.0
148	64.0	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

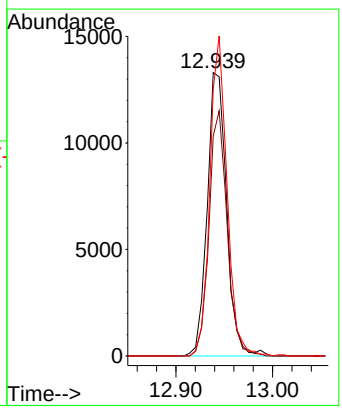
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

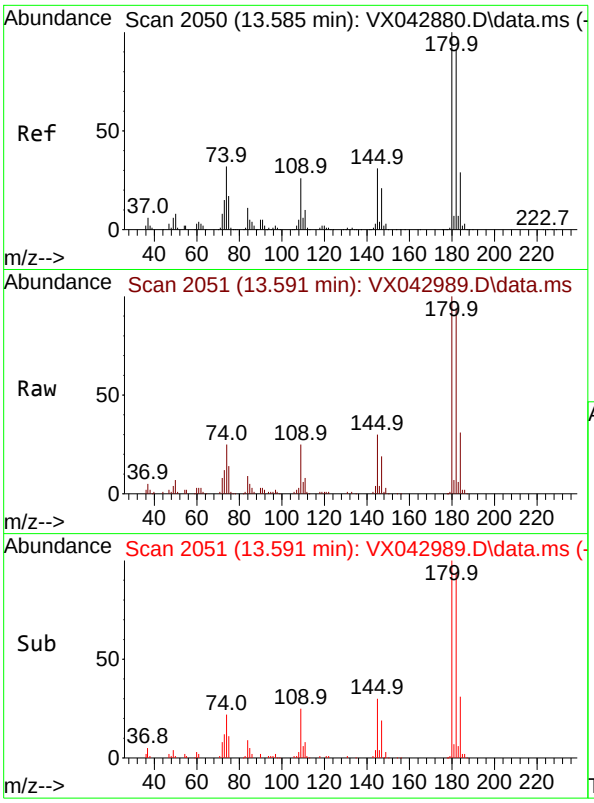


#92
1,2-Dibromo-3-Chloropropane
Concen: 19.465 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion: 75 Resp: 18576

Ion	Ratio	Lower	Upper
75	100		
155	80.5	36.1	108.5
157	99.9	44.9	134.7





#93
1,2,4-Trichlorobenzene
Concen: 17.292 ug/l
RT: 13.591 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

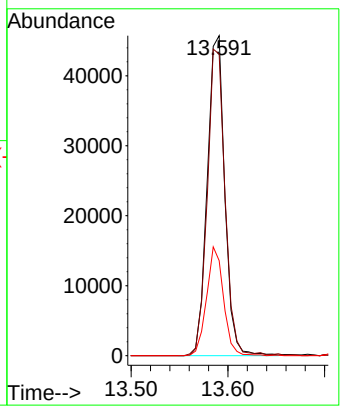
Tgt Ion:180 Resp: 5764

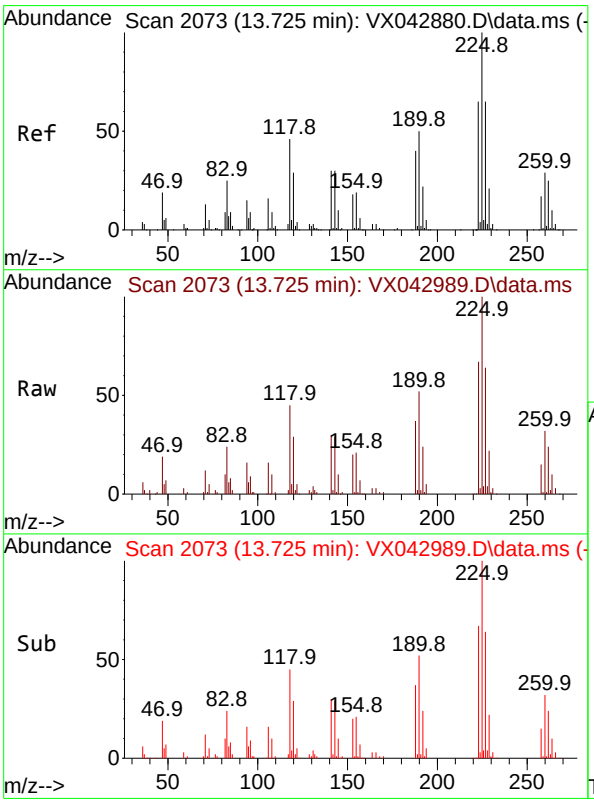
Ion	Ratio	Lower	Upper
180	100		
182	97.3	48.3	144.8
145	33.0	18.0	54.0

Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024

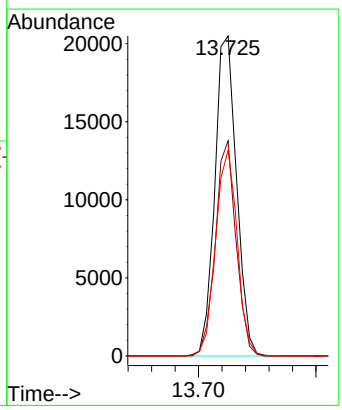


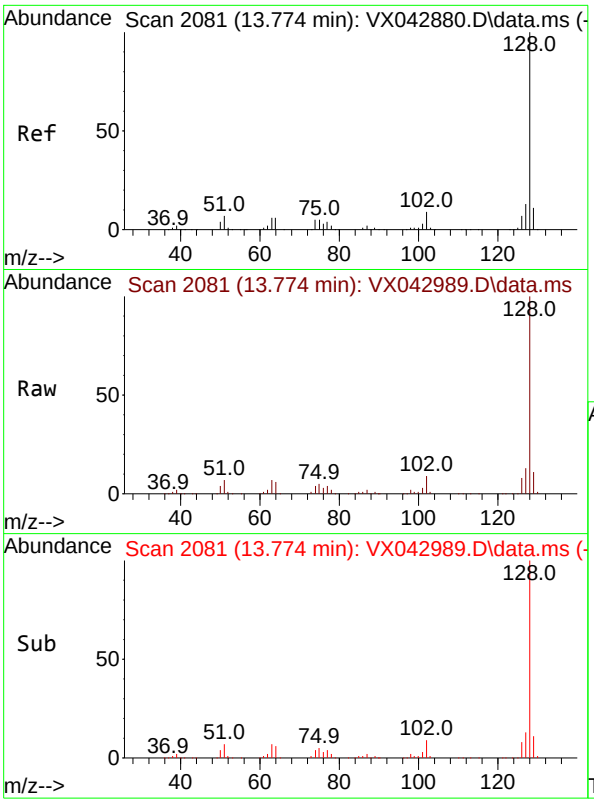


#94
Hexachlorobutadiene
Concen: 18.676 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion:225 Resp: 26406

Ion	Ratio	Lower	Upper
225	100		
223	63.9	31.1	93.2
227	63.8	32.5	97.5

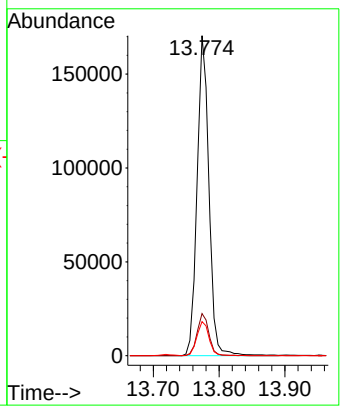




#95
Naphthalene
Concen: 18.472 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion:128 Resp: 21309

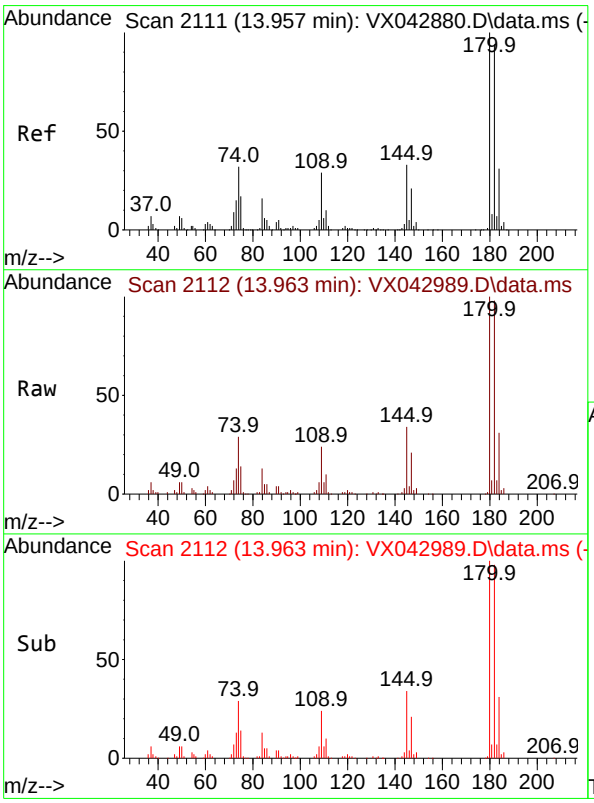
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.3	15.5
129	10.9	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VX0809WBS01

Manual Integrations
APPROVED

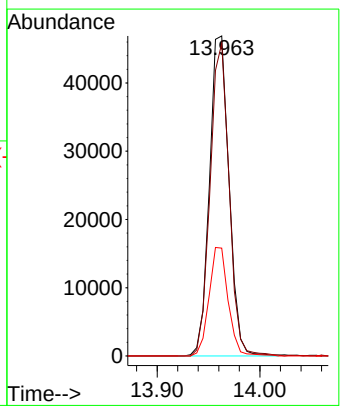
Reviewed By :John Carlone 08/10/2024
Supervised By :Mahesh Dadoda 08/12/2024



#96
1,2,3-Trichlorobenzene
Concen: 18.521 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX042989.D
Acq: 09 Aug 2024 12:15

Tgt Ion:180 Resp: 62152

Ion	Ratio	Lower	Upper
180	100		
182	94.7	46.9	140.6
145	33.2	17.8	53.5



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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	VN0810WBSD01	SDG No.:	P3457
Lab Sample ID:	VN0810WBSD01	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
VN083201.D	1		08/10/24 12:32	VN081024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.5		0.21	1.00	ug/L
74-87-3	Chloromethane	18.3		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	18.6		0.34	1.00	ug/L
74-83-9	Bromomethane	18.8		1.40	5.00	ug/L
75-00-3	Chloroethane	19.3		0.56	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.6		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.4		0.26	1.00	ug/L
67-64-1	Acetone	98.2		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	16.5		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.8		0.16	1.00	ug/L
75-09-2	Methylene Chloride	18.0		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.8		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.6		0.23	1.00	ug/L
110-82-7	Cyclohexane	17.4		1.60	5.00	ug/L
78-93-3	2-Butanone	98.3		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.1		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.2		0.25	1.00	ug/L
67-66-3	Chloroform	20.3		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.6		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	18.3		0.19	1.00	ug/L
71-43-2	Benzene	19.3		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.9		0.24	1.00	ug/L
79-01-6	Trichloroethene	19.2		0.32	1.00	ug/L
75-27-4	Bromodichloromethane	19.6		0.24	1.00	ug/L
108-88-3	Toluene	19.0		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.9		0.21	1.00	ug/L
124-48-1	Dibromochloromethane	20.3		0.18	1.00	ug/L
127-18-4	Tetrachloroethene	18.7		0.25	1.00	ug/L
108-90-7	Chlorobenzene	18.8		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	18.7		0.16	1.00	ug/L

Raw Data: **VN083201.D**

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	VN0810WBSD01	SDG No.:	P3457
Lab Sample ID:	VN0810WBSD01	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
VN083201.D	1		08/10/24 12:32	VN081024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
179601-23-1	m/p-Xylenes	37.6		0.31	2.00	ug/L
1330-20-7	Total Xylenes	56.3		0.45	3.00	ug/L
95-47-6	o-Xylene	18.7		0.14	1.00	ug/L
98-82-8	Isopropylbenzene	18.6		0.13	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.5		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.7		0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.5		70 (74) - 130 (125)	115%	SPK: 50
1868-53-7	Dibromofluoromethane	52.4		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	52.5		70 (86) - 130 (113)	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.9		70 (77) - 130 (121)	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	160000	8.224			
540-36-3	1,4-Difluorobenzene	279000	9.1			
3114-55-4	Chlorobenzene-d5	245000	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 QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081024\
Data File : VN083201.D
Acq On : 10 Aug 2024 12:32
Operator : JC\MD
Sample : VN0810WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 12 01:48:41 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

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	160373	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	278670	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	245098	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	113742	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	131175	57.464	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 114.920%			
35) Dibromofluoromethane	8.165	113	91154	52.405	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.820%			
50) Toluene-d8	10.565	98	340795	52.524	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.040%			
62) 4-Bromofluorobenzene	12.847	95	133905	52.936	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 105.880%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	33722	18.542	ug/l	97
3) Chloromethane	2.359	50	34129	18.330	ug/l	100
4) Vinyl Chloride	2.512	62	35282	18.571	ug/l	100
5) Bromomethane	2.959	94	22125	18.768	ug/l	96
6) Chloroethane	3.118	64	22971	19.326	ug/l	90
7) Trichlorofluoromethane	3.500	101	61056	19.453	ug/l	97
8) Diethyl Ether	3.965	74	22652	19.396	ug/l	84
9) 1,1,2-Trichlorotrifluo...	4.371	101	33891	19.586	ug/l	99
10) Methyl Iodide	4.589	142	41907	18.411	ug/l	92
11) Tert butyl alcohol	5.530	59	44413	93.621	ug/l	97
12) 1,1-Dichloroethene	4.341	96	32691	18.389	ug/l	84
13) Acrolein	4.177	56	25400	82.152	ug/l	96
14) Allyl chloride	5.024	41	56204	16.730	ug/l	94
15) Acrylonitrile	5.724	53	97011	99.431	ug/l	98
16) Acetone	4.424	43	87711	98.196	ug/l	98
17) Carbon Disulfide	4.712	76	86008	16.534	ug/l	98
18) Methyl Acetate	5.024	43	53002	19.916	ug/l #	90
19) Methyl tert-butyl Ether	5.794	73	127226	19.827	ug/l	98
20) Methylene Chloride	5.277	84	36941	17.970	ug/l	93
21) trans-1,2-Dichloroethene	5.783	96	32743	17.820	ug/l	92
22) Diisopropyl ether	6.671	45	124301	19.684	ug/l	97
23) Vinyl Acetate	6.606	43	636955	98.405	ug/l	96
24) 1,1-Dichloroethane	6.571	63	67479	19.604	ug/l	99
25) 2-Butanone	7.482	43	134866	98.333	ug/l	92
26) 2,2-Dichloropropane	7.488	77	62181	19.452	ug/l	99
27) cis-1,2-Dichloroethene	7.488	96	42570	19.200	ug/l	94
28) Bromochloromethane	7.812	49	29768	21.162	ug/l	88
29) Tetrahydrofuran	7.841	42	86812	97.916	ug/l	89
30) Chloroform	7.965	83	72482	20.269	ug/l	99
31) Cyclohexane	8.253	56	58919	17.417	ug/l	99
32) 1,1,1-Trichloroethane	8.171	97	66215	19.562	ug/l	96
36) 1,1-Dichloropropene	8.371	75	49350	18.755	ug/l	99
37) Ethyl Acetate	7.559	43	53754	18.246	ug/l #	97
38) Carbon Tetrachloride	8.365	117	56464	19.053	ug/l	97
39) Methylcyclohexane	9.600	83	59045	18.270	ug/l	95
40) Benzene	8.606	78	151338	19.307	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081024\
Data File : VN083201.D
Acq On : 10 Aug 2024 12:32
Operator : JC\MD
Sample : VN0810WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 12 01:48:41 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

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	30656	18.301	ug/l		96
42) 1,2-Dichloroethane	8.671	62	59737	20.921	ug/l		99
43) Isopropyl Acetate	8.688	43	98842	17.912	ug/l	#	95
44) Trichloroethene	9.353	130	35835	19.207	ug/l		95
45) 1,2-Dichloropropane	9.618	63	36654	19.700	ug/l		93
46) Dibromomethane	9.706	93	26827	20.143	ug/l		98
47) Bromodichloromethane	9.888	83	58519	19.569	ug/l		98
48) Methyl methacrylate	9.682	41	45564	18.707	ug/l		92
49) 1,4-Dioxane	9.694	88	16757	381.344	ug/l		98
51) 4-Methyl-2-Pentanone	10.447	43	281165	100.923	ug/l		94
52) Toluene	10.629	92	94127	19.005	ug/l		99
53) t-1,3-Dichloropropene	10.835	75	60133	19.576	ug/l		99
54) cis-1,3-Dichloropropene	10.312	75	62682	19.185	ug/l		92
55) 1,1,2-Trichloroethane	11.018	97	37158	20.935	ug/l		97
56) Ethyl methacrylate	10.876	69	63349	18.933	ug/l		93
57) 1,3-Dichloropropane	11.165	76	64306	20.327	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	127808	90.365	ug/l		98
59) 2-Hexanone	11.194	43	212300	98.501	ug/l		93
60) Dibromochloromethane	11.359	129	43479	20.261	ug/l		97
61) 1,2-Dibromoethane	11.470	107	37334	20.023	ug/l		98
64) Tetrachloroethene	11.106	164	30326	18.683	ug/l		95
65) Chlorobenzene	11.894	112	102028	18.837	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.959	131	35939	18.814	ug/l		98
67) Ethyl Benzene	11.965	91	186219	18.742	ug/l		99
68) m/p-Xylenes	12.070	106	139868	37.579	ug/l		97
69) o-Xylene	12.400	106	68564	18.678	ug/l		99
70) Styrene	12.412	104	116638	18.918	ug/l		98
71) Bromoform	12.576	173	27132	18.749	ug/l	#	98
73) Isopropylbenzene	12.694	105	176719	18.575	ug/l		99
74) N-amyl acetate	12.494	43	83269	17.894	ug/l		94
75) 1,1,2,2-Tetrachloroethane	12.941	83	52616	19.554	ug/l		100
76) 1,2,3-Trichloropropane	12.994	75	47222m	18.916	ug/l		
77) Bromobenzene	12.976	156	40469	19.149	ug/l		96
78) n-propylbenzene	13.035	91	210429	19.209	ug/l		99
79) 2-Chlorotoluene	13.123	91	131389	18.918	ug/l		96
80) 1,3,5-Trimethylbenzene	13.170	105	151364	19.004	ug/l		97
81) trans-1,4-Dichloro-2-b...	12.735	75	19482	16.976	ug/l		99
82) 4-Chlorotoluene	13.223	91	131889	18.932	ug/l		97
83) tert-Butylbenzene	13.441	119	131911	18.701	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	151431	18.866	ug/l		100
85) sec-Butylbenzene	13.617	105	180684	18.773	ug/l		99
86) p-Isopropyltoluene	13.729	119	152096	19.139	ug/l		97
87) 1,3-Dichlorobenzene	13.735	146	74724	18.791	ug/l		98
88) 1,4-Dichlorobenzene	13.811	146	74297	18.532	ug/l		97
89) n-Butylbenzene	14.059	91	129545	18.813	ug/l		99
90) Hexachloroethane	14.329	117	27030	17.605	ug/l		95
91) 1,2-Dichlorobenzene	14.106	146	72096	18.735	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	12131	18.579	ug/l		97
93) 1,2,4-Trichlorobenzene	15.394	180	40187	18.641	ug/l		99
94) Hexachlorobutadiene	15.500	225	16888	17.614	ug/l		99
95) Naphthalene	15.641	128	137642	18.024	ug/l		99
96) 1,2,3-Trichlorobenzene	15.841	180	38859	18.216	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081024\
Data File : VN083201.D
Acq On : 10 Aug 2024 12:32
Operator : JC\MD
Sample : VN0810WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 12 01:48:41 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

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

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

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

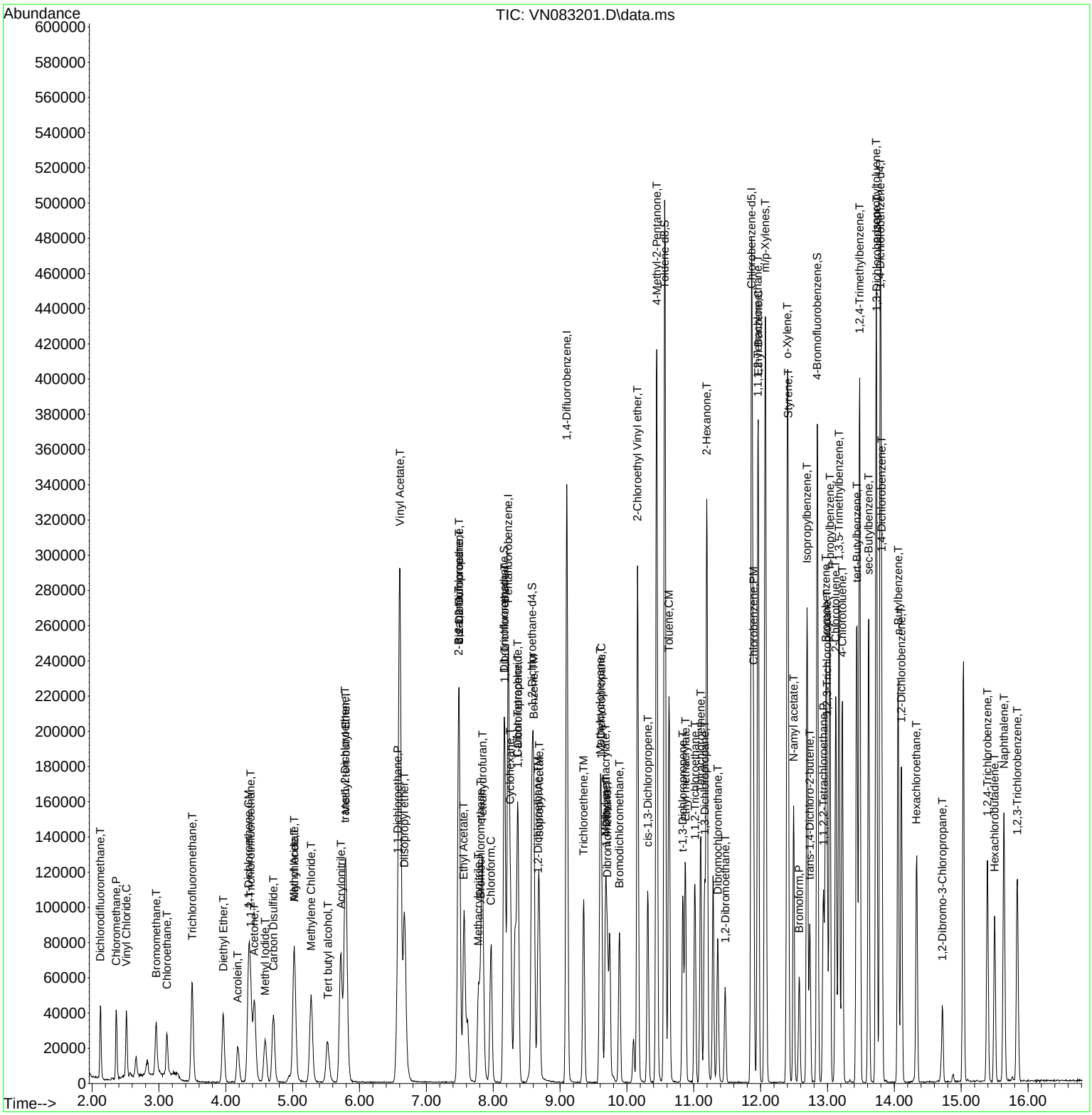
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081024\
Data File : VN083201.D
Acq On : 10 Aug 2024 12:32
Operator : JC\MD
Sample : VN0810WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

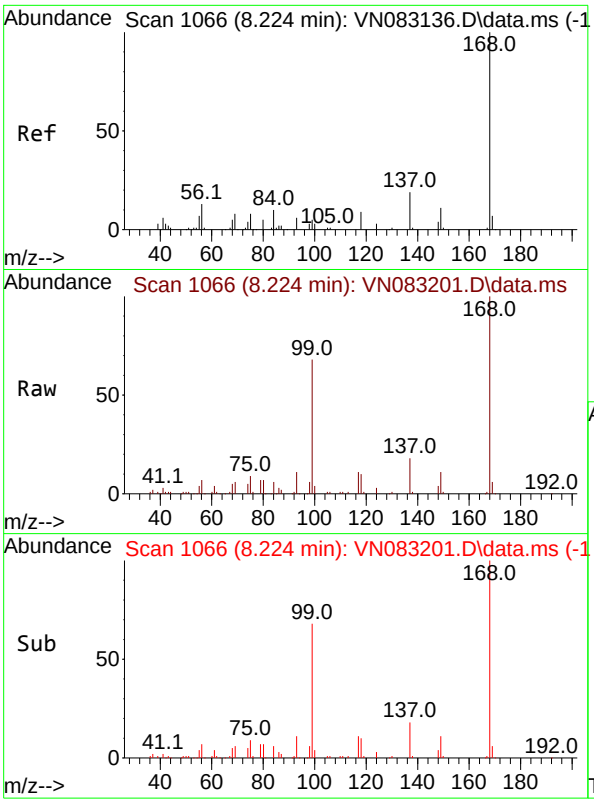
Quant Time: Aug 12 01:48:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

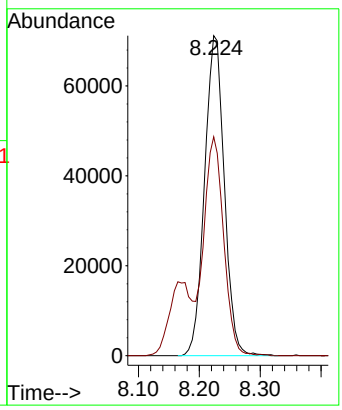




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion:168 Resp: 16037

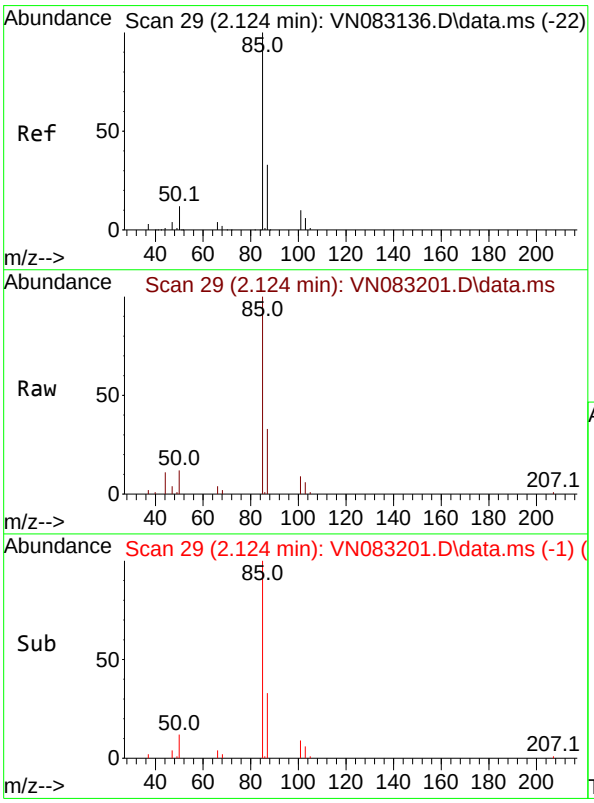
Ion	Ratio	Lower	Upper
168	100		
99	68.4	48.2	72.4



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

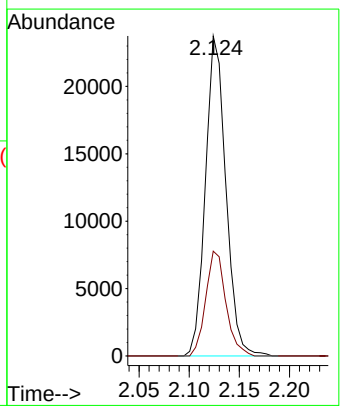
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

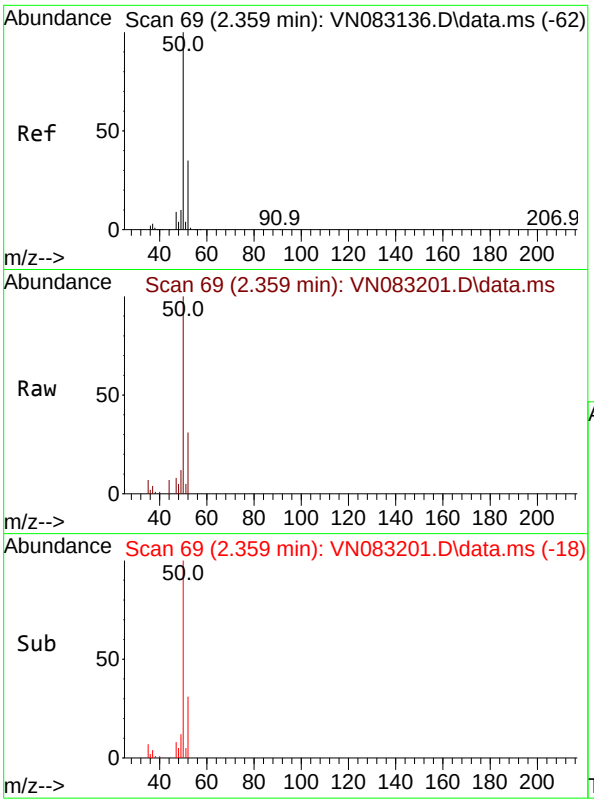


#2
Dichlorodifluoromethane
Concen: 18.542 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 85 Resp: 33722

Ion	Ratio	Lower	Upper
85	100		
87	32.8	15.7	47.0

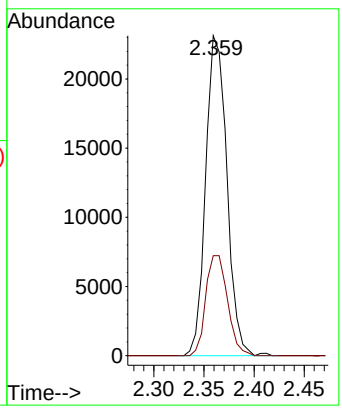




#3
Chloromethane
Concen: 18.330 ug/l
RT: 2.359 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 50 Resp: 3412

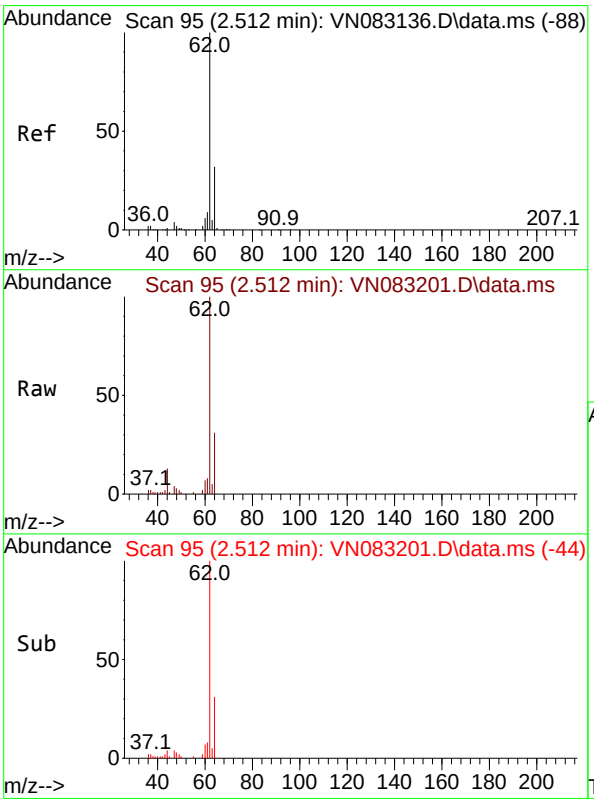
Ion	Ratio	Lower	Upper
50	100		
52	31.2	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

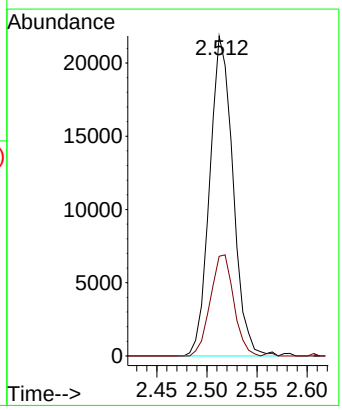
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

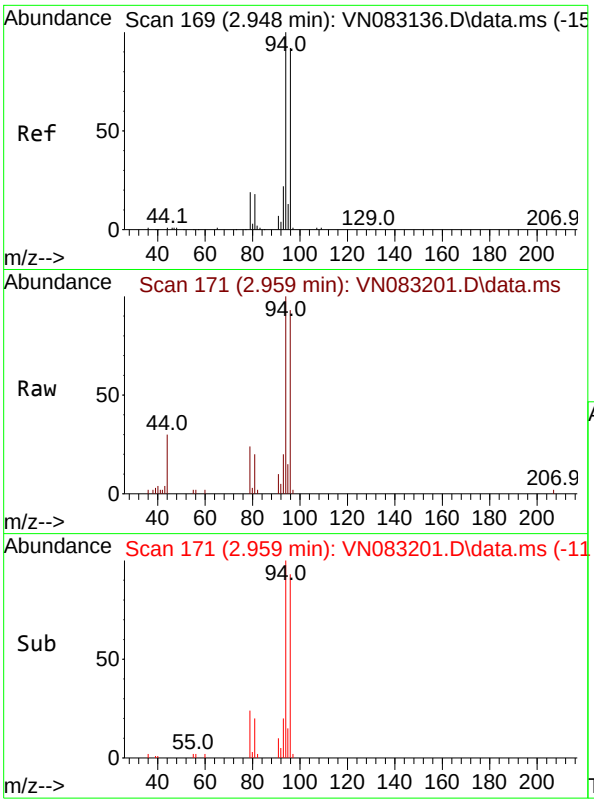


#4
Vinyl Chloride
Concen: 18.571 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 62 Resp: 35282

Ion	Ratio	Lower	Upper
62	100		
64	31.1	25.0	37.6

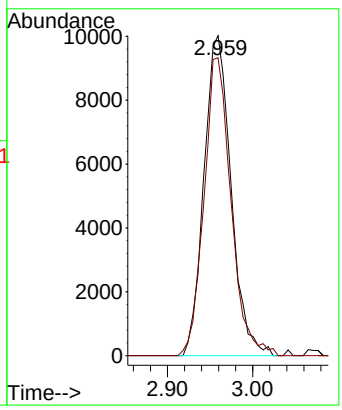




#5
Bromomethane
Concen: 18.768 ug/l
RT: 2.959 min Scan# 1
Delta R.T. 0.012 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 94 Resp: 2212

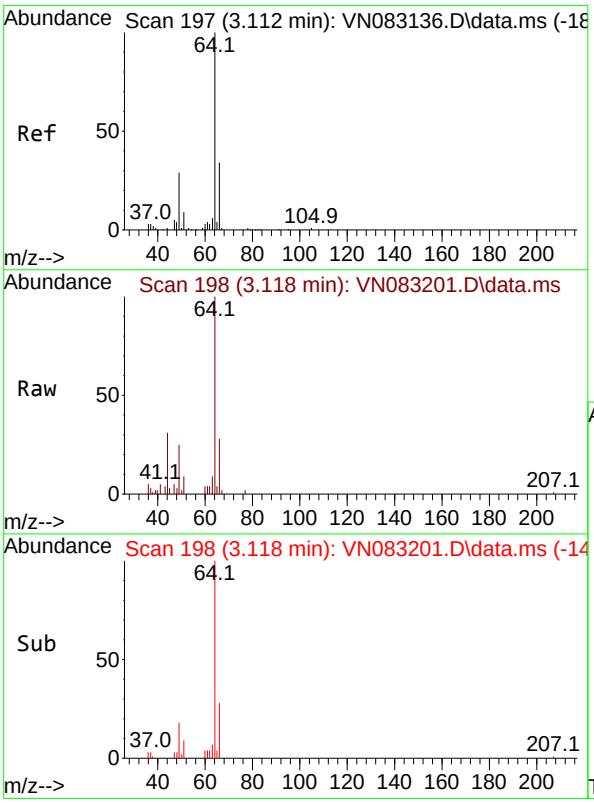
Ion	Ratio	Lower	Upper
94	100		
96	93.1	78.0	117.0



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

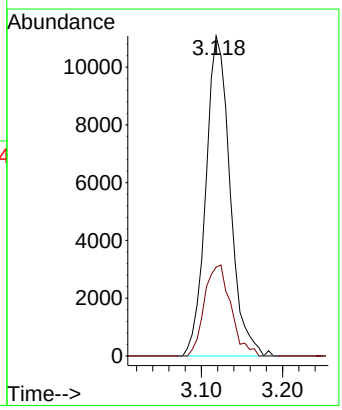
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

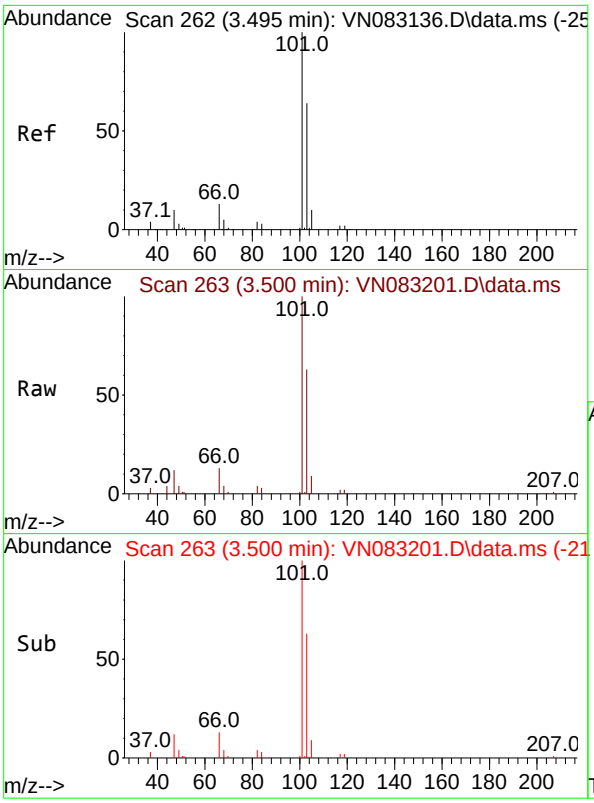


#6
Chloroethane
Concen: 19.326 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.006 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 64 Resp: 22971

Ion	Ratio	Lower	Upper
64	100		
66	27.8	26.6	40.0





#7
Trichlorofluoromethane
Concen: 19.453 ug/l
RT: 3.500 min Scan# 2
Delta R.T. 0.005 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

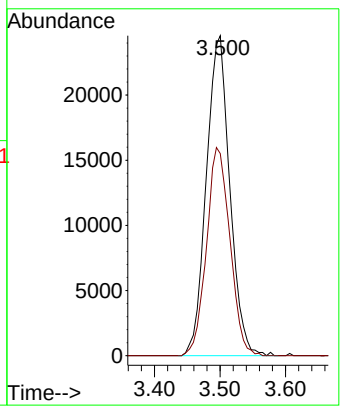
Tgt Ion:101 Resp: 6105

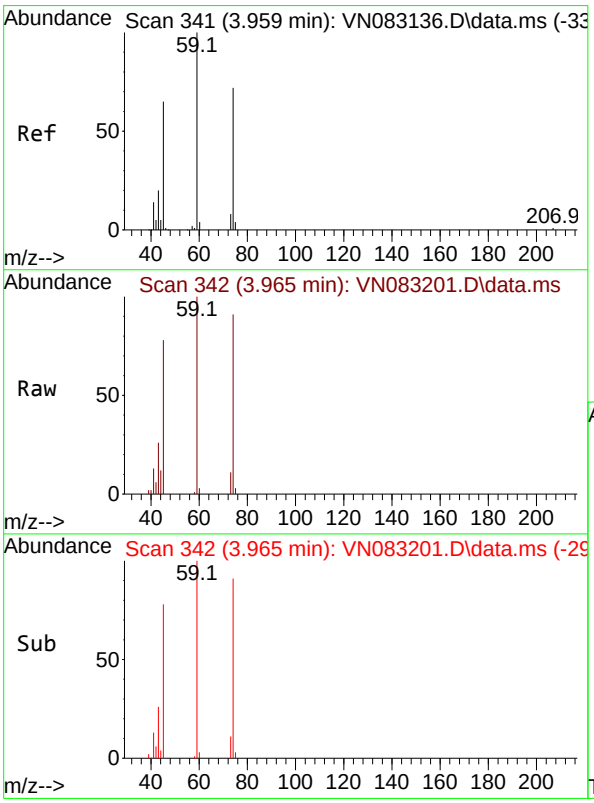
Ion	Ratio	Lower	Upper
101	100		
103	63.2	52.7	79.1

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

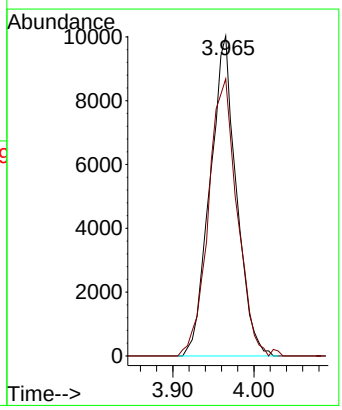


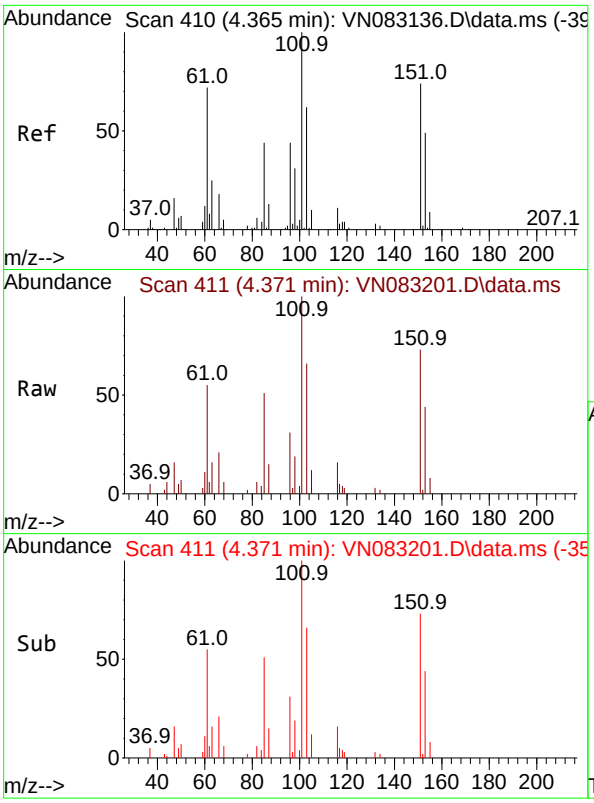


#8
Diethyl Ether
Concen: 19.396 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.006 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 74 Resp: 22652

Ion	Ratio	Lower	Upper
74	100		
45	94.1	55.5	166.3





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.586 ug/l
RT: 4.371 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

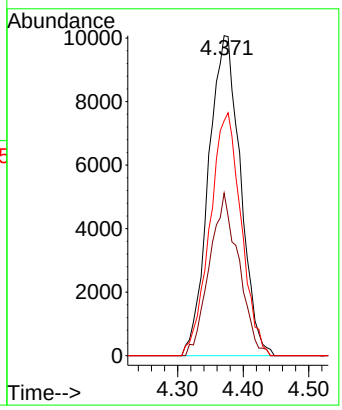
Tgt Ion:101 Resp: 3389

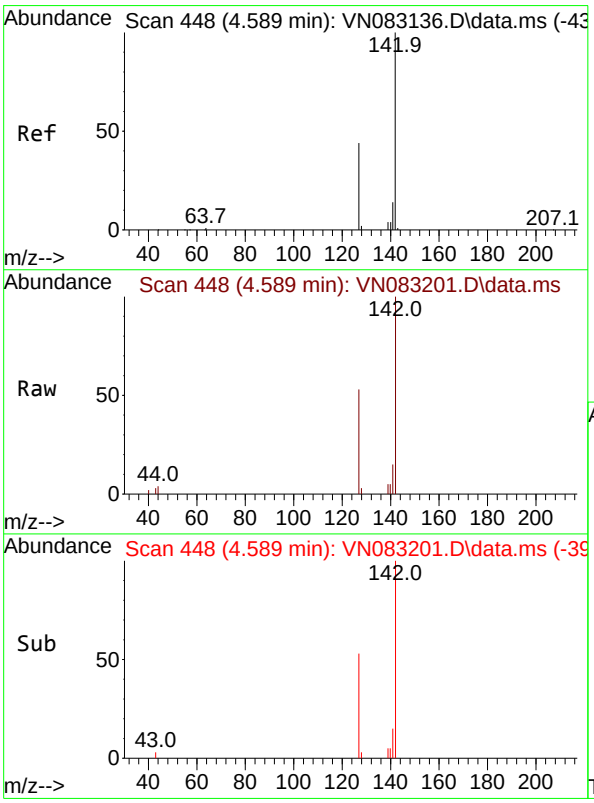
Ion	Ratio	Lower	Upper
101	100		
85	47.0	38.3	57.5
151	74.7	59.3	88.9

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

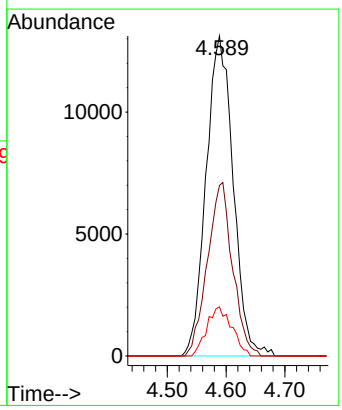


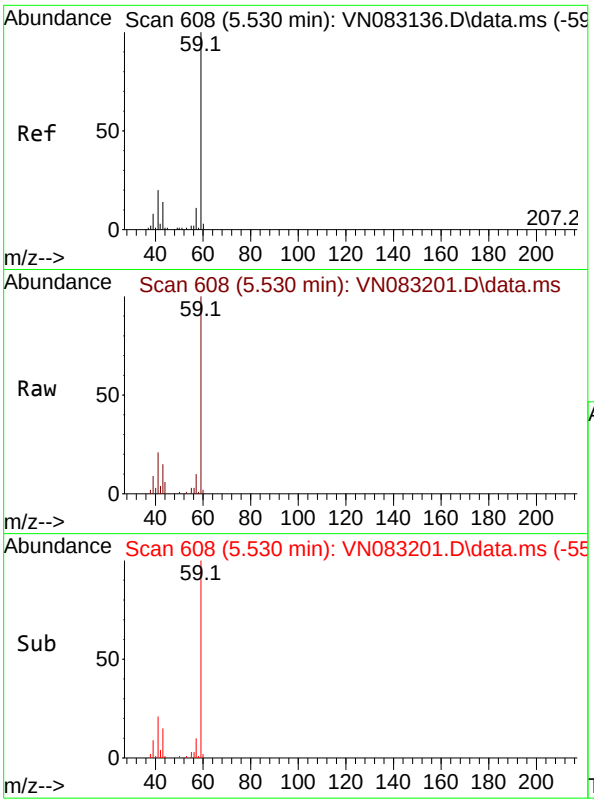


#10
Methyl Iodide
Concen: 18.411 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion:142 Resp: 41907

Ion	Ratio	Lower	Upper
142	100		
127	53.3	37.5	56.3
141	15.3	13.1	19.7

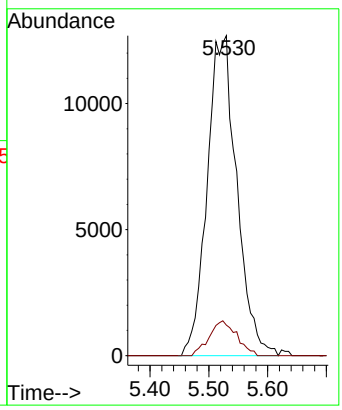




#11
Tert butyl alcohol
Concen: 93.621 ug/l
RT: 5.530 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 59 Resp: 4441

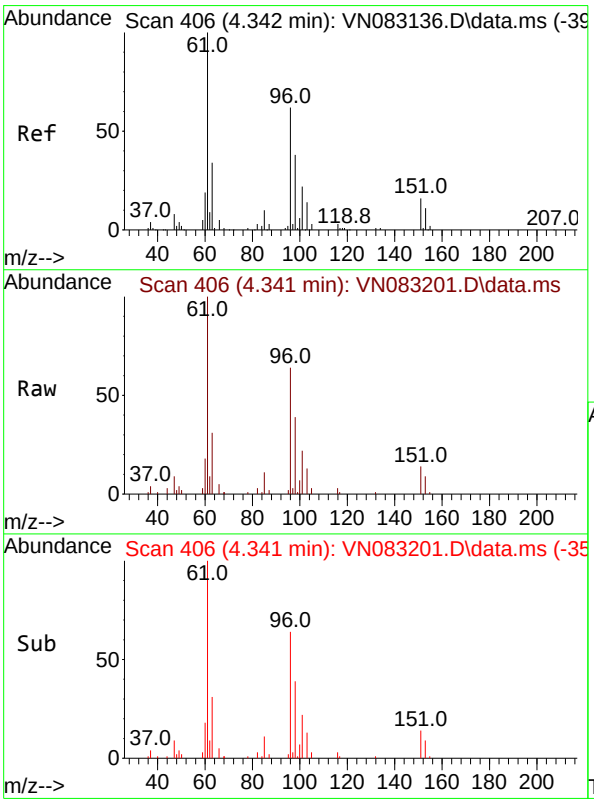
Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.9	13.3



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

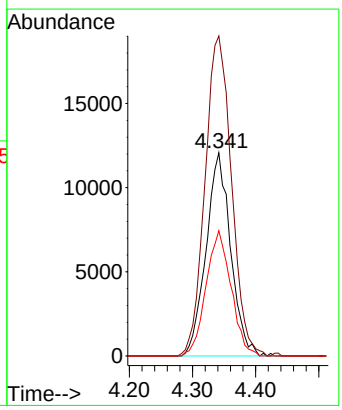
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

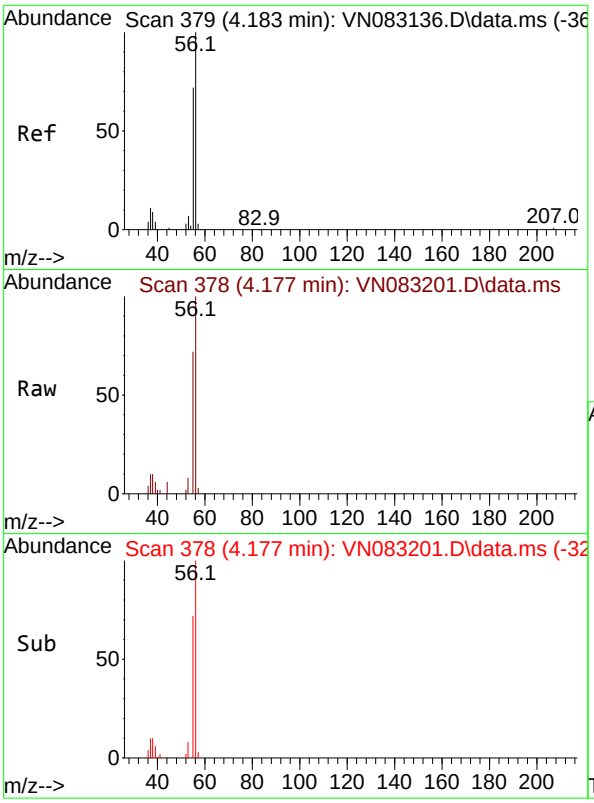


#12
1,1-Dichloroethene
Concen: 18.389 ug/l
RT: 4.341 min Scan# 406
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 96 Resp: 32691

Ion	Ratio	Lower	Upper
96	100		
61	157.4	149.7	224.5
98	61.6	50.1	75.1





#13
Acrolein
Concen: 82.152 ug/l
RT: 4.177 min Scan# 3
Delta R.T. -0.006 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

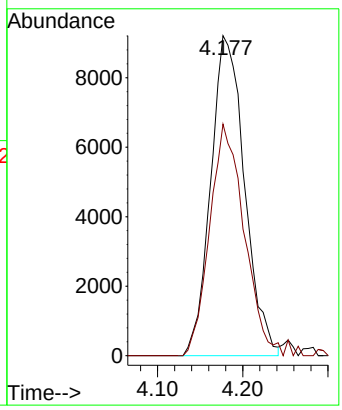
Tgt Ion: 56 Resp: 2540

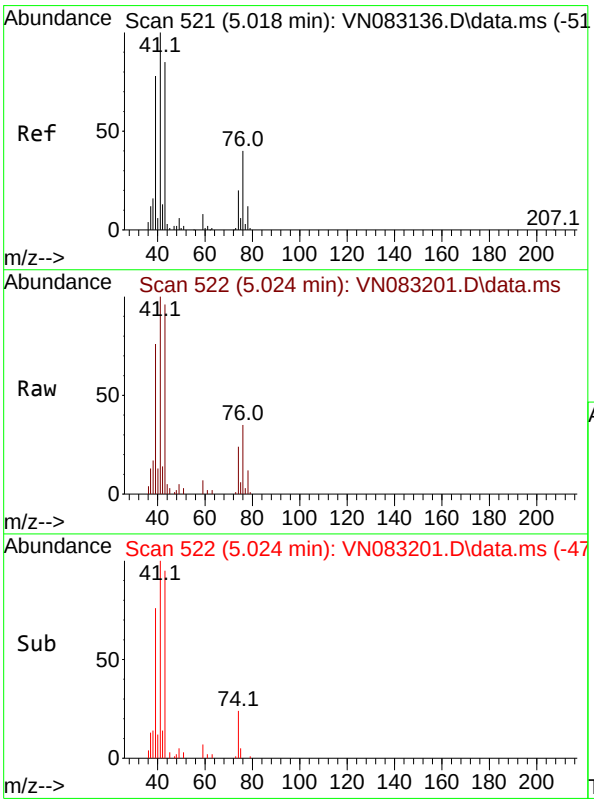
Ion	Ratio	Lower	Upper
56	100		
55	73.6	56.4	84.6

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

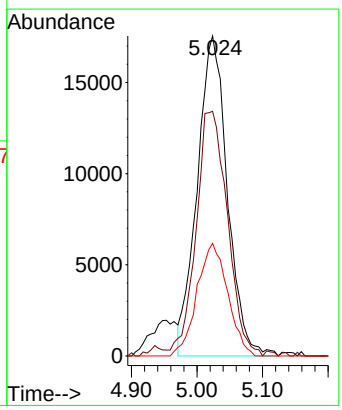


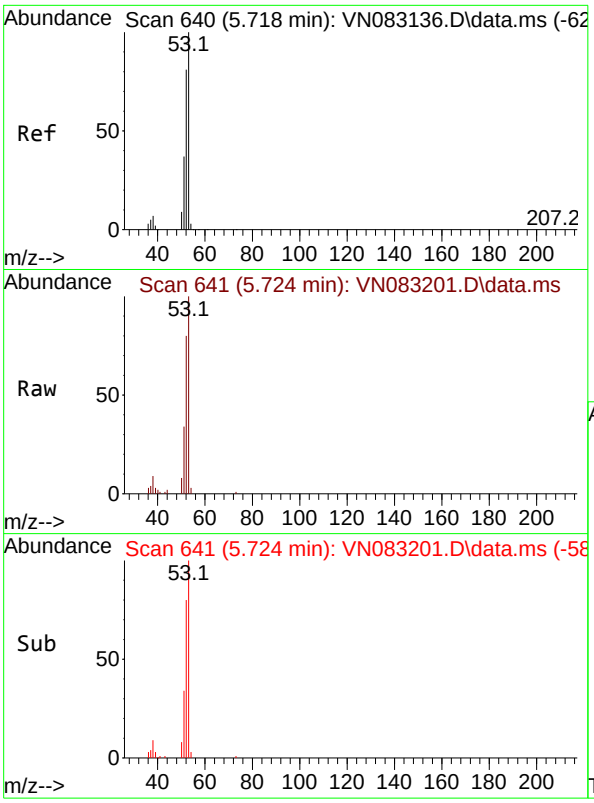


#14
Allyl chloride
Concen: 16.730 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 41 Resp: 56204

Ion	Ratio	Lower	Upper
41	100		
39	79.6	67.8	101.6
76	35.8	25.8	38.8

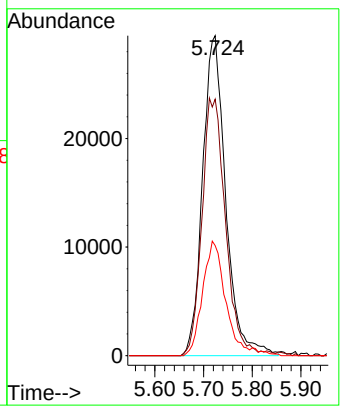




#15
Acrylonitrile
Concen: 99.431 ug/l
RT: 5.724 min Scan# 64
Delta R.T. 0.006 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 53 Resp: 9701

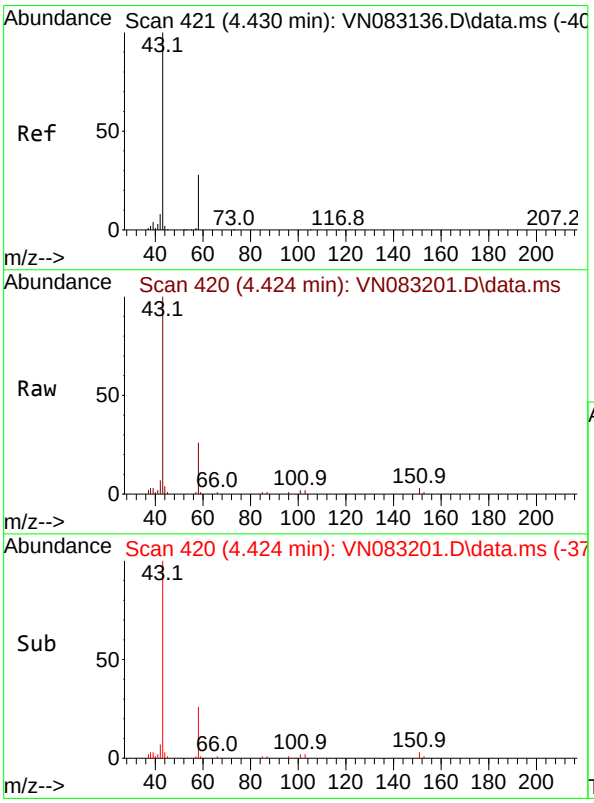
Ion	Ratio	Lower	Upper
53	100		
52	81.6	66.6	100.0
51	36.3	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

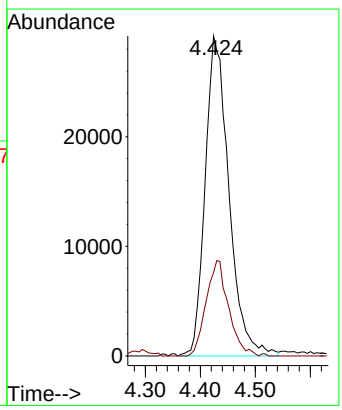
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

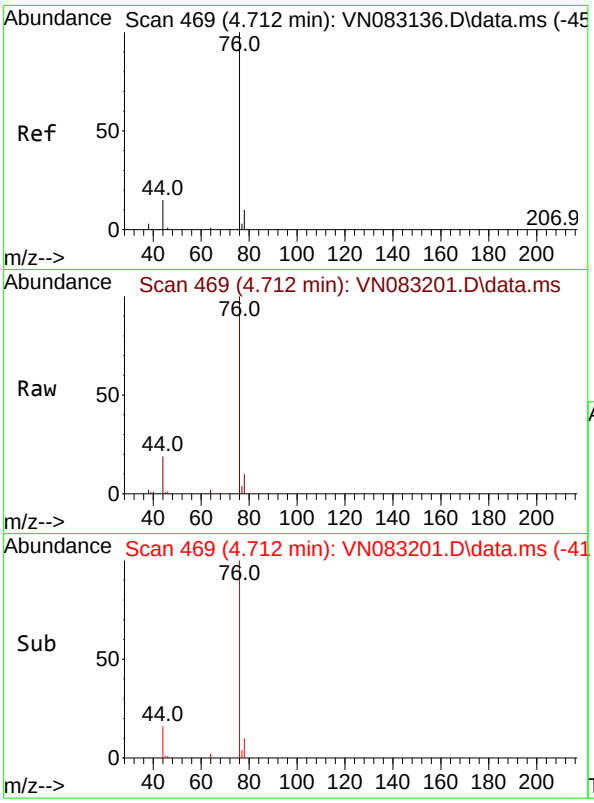


#16
Acetone
Concen: 98.196 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 43 Resp: 87711

Ion	Ratio	Lower	Upper
43	100		
58	26.1	21.8	32.6

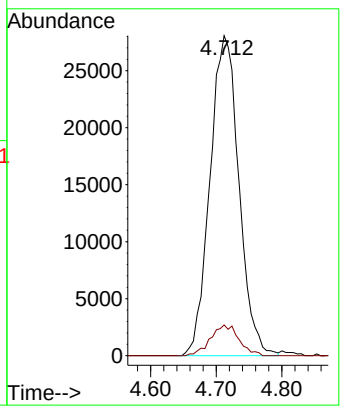




#17
Carbon Disulfide
Concen: 16.534 ug/l
RT: 4.712 min Scan# 4
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 76 Resp: 8600

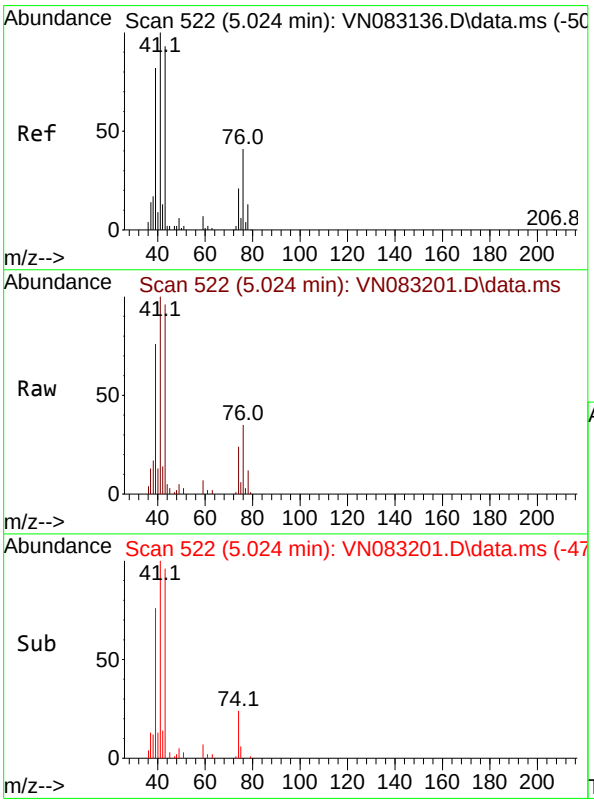
Ion	Ratio	Lower	Upper
76	100		
78	9.6	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

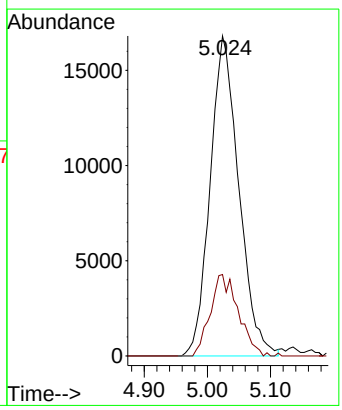
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

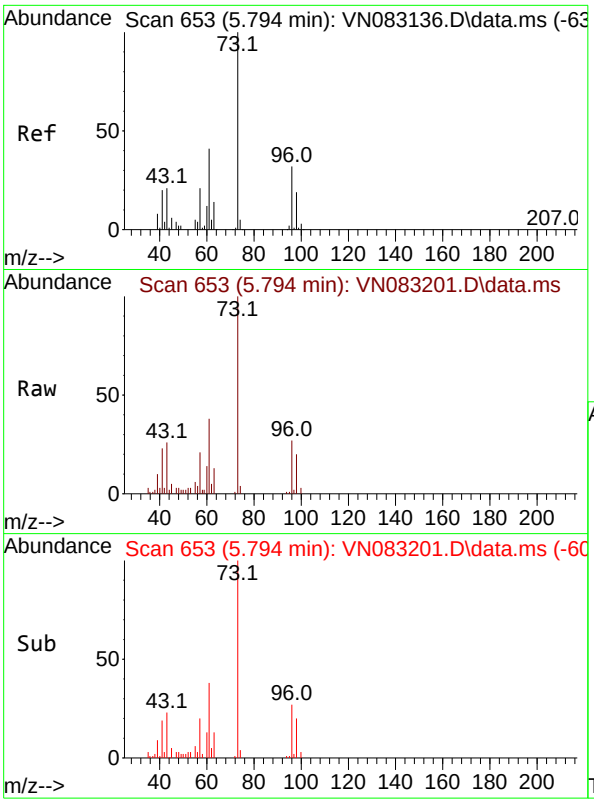


#18
Methyl Acetate
Concen: 19.916 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 43 Resp: 53002

Ion	Ratio	Lower	Upper
43	100		
74	24.9	16.3	24.5#

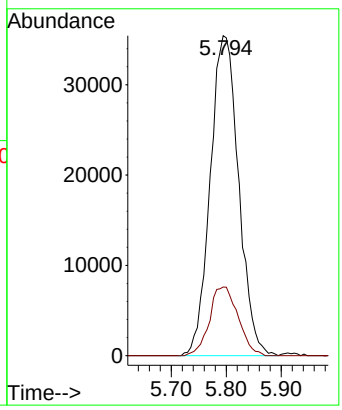




#19
Methyl tert-butyl Ether
Concen: 19.827 ug/l
RT: 5.794 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 73 Resp: 12722

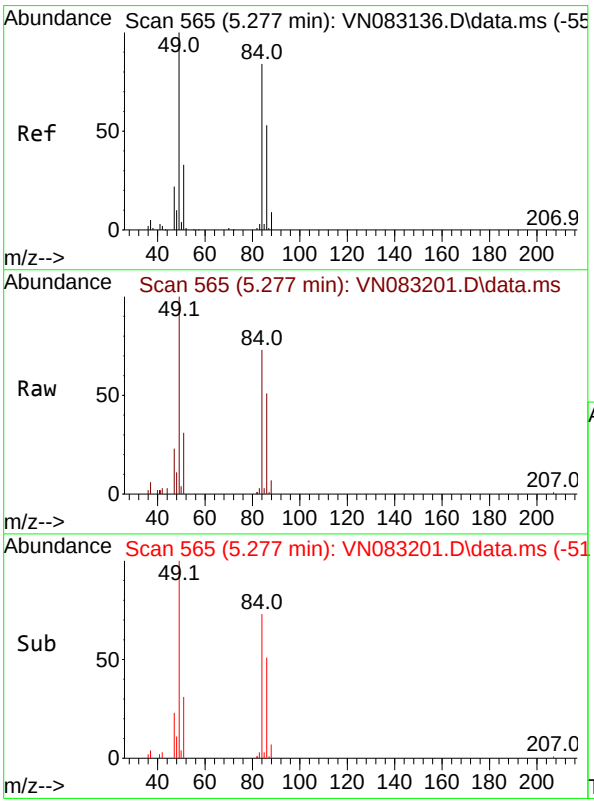
Ion	Ratio	Lower	Upper
73	100		
57	21.4	17.9	26.9



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

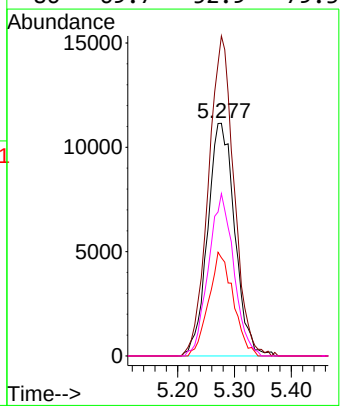
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

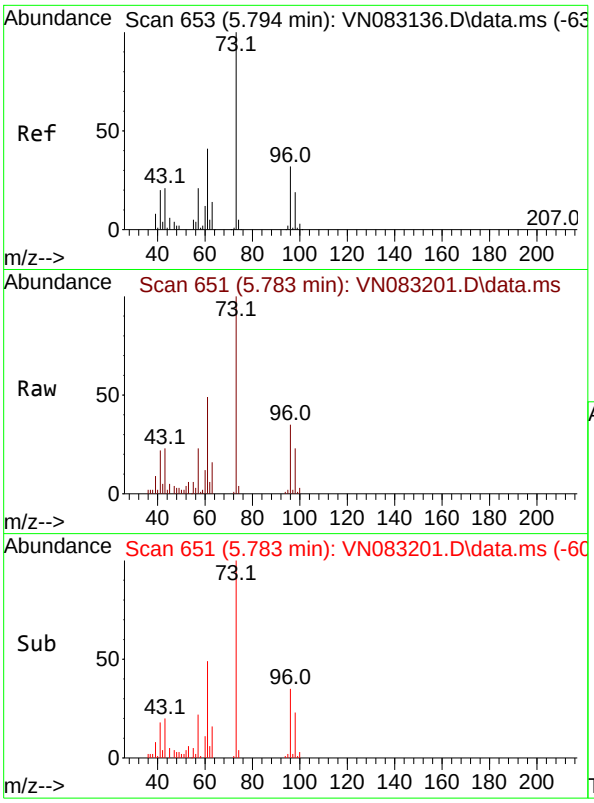


#20
Methylene Chloride
Concen: 17.970 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 84 Resp: 36941

Ion	Ratio	Lower	Upper
84	100		
49	137.5	119.6	179.4
51	42.2	34.8	52.2
86	69.7	52.9	79.3

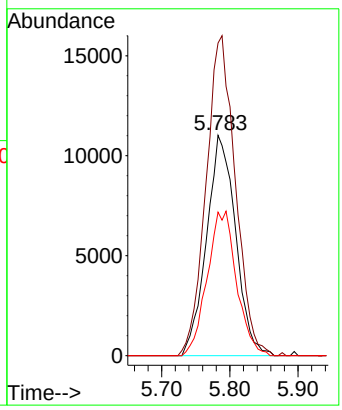




#21
trans-1,2-Dichloroethene
Concen: 17.820 ug/l
RT: 5.783 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 96 Resp: 3274

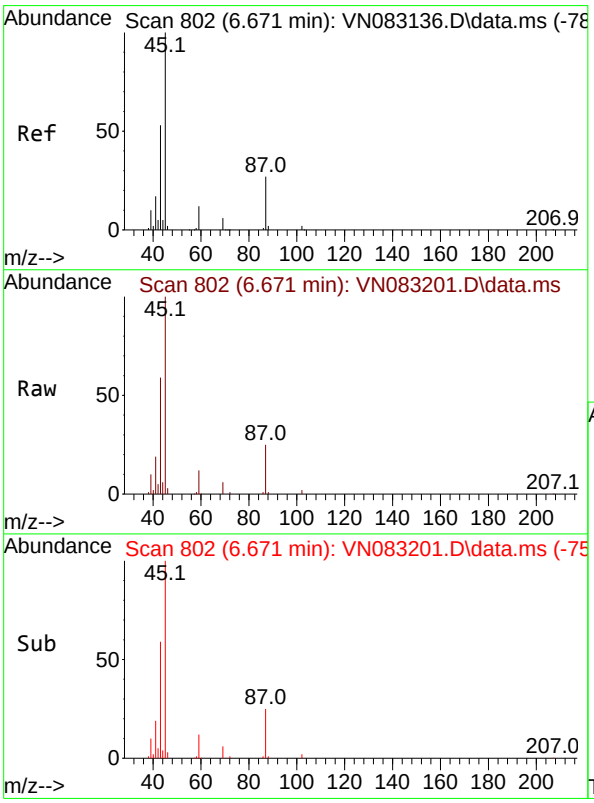
Ion	Ratio	Lower	Upper
96	100		
61	141.9	123.4	185.2
98	65.1	49.3	73.9



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

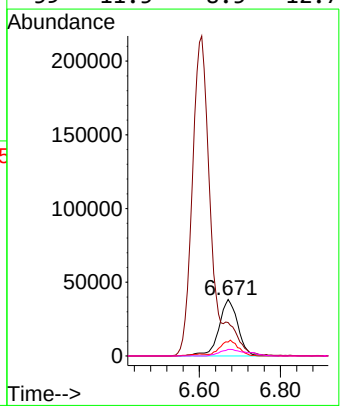
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

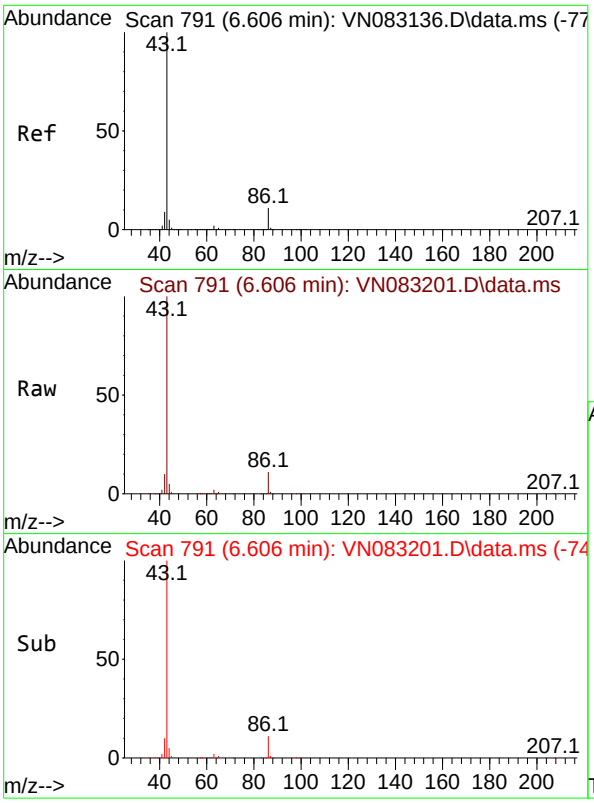


#22
Diisopropyl ether
Concen: 19.684 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 45 Resp: 124301

Ion	Ratio	Lower	Upper
45	100		
43	58.2	44.0	66.0
87	24.7	19.7	29.5
59	11.5	8.5	12.7





#23
Vinyl Acetate
Concen: 98.405 ug/l
RT: 6.606 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

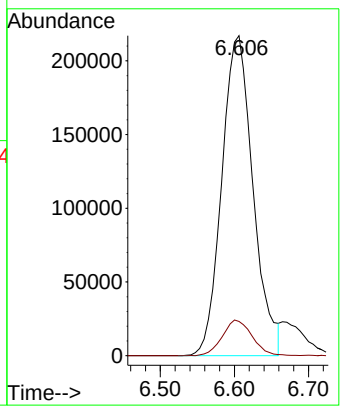
Tgt Ion: 43 Resp: 63695

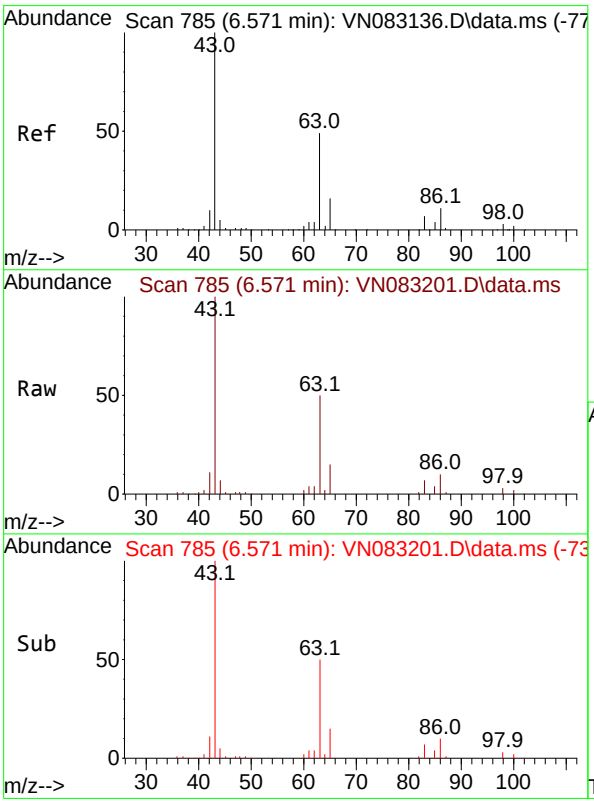
Ion	Ratio	Lower	Upper
43	100		
86	10.7	7.3	10.9

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

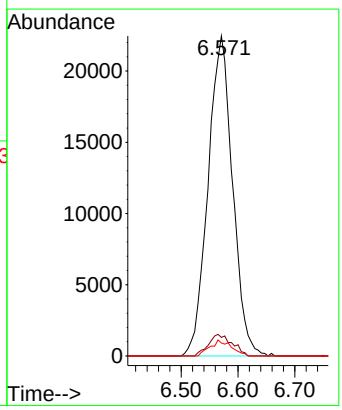


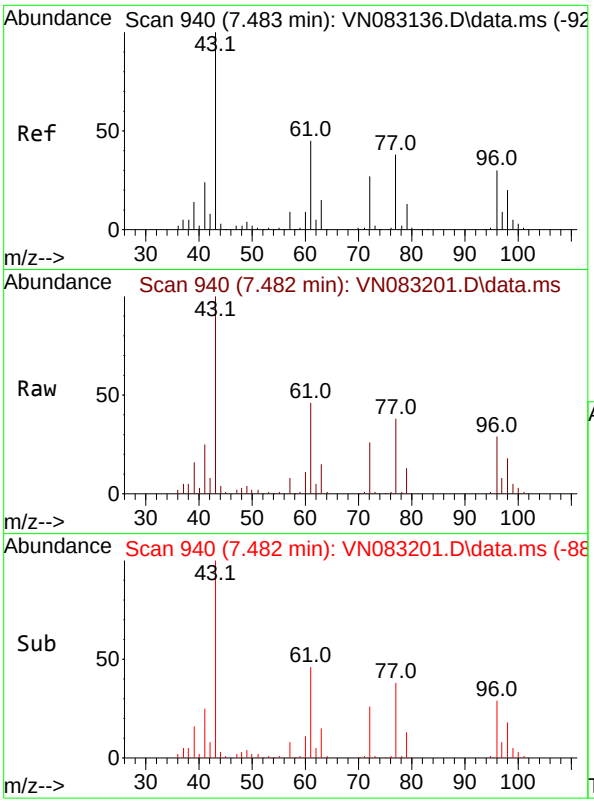


#24
1,1-Dichloroethane
Concen: 19.604 ug/l
RT: 6.571 min Scan# 785
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 63 Resp: 67479

Ion	Ratio	Lower	Upper
63	100		
98	5.8	3.3	9.9
100	4.0	2.0	6.0





#25
2-Butanone
Concen: 98.333 ug/l
RT: 7.482 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

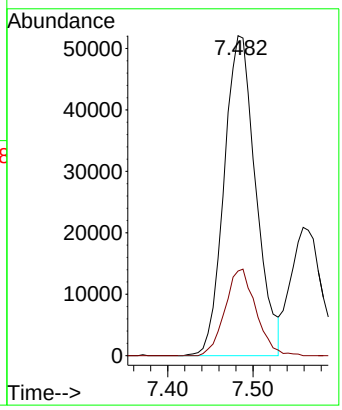
Tgt Ion: 43 Resp: 13486

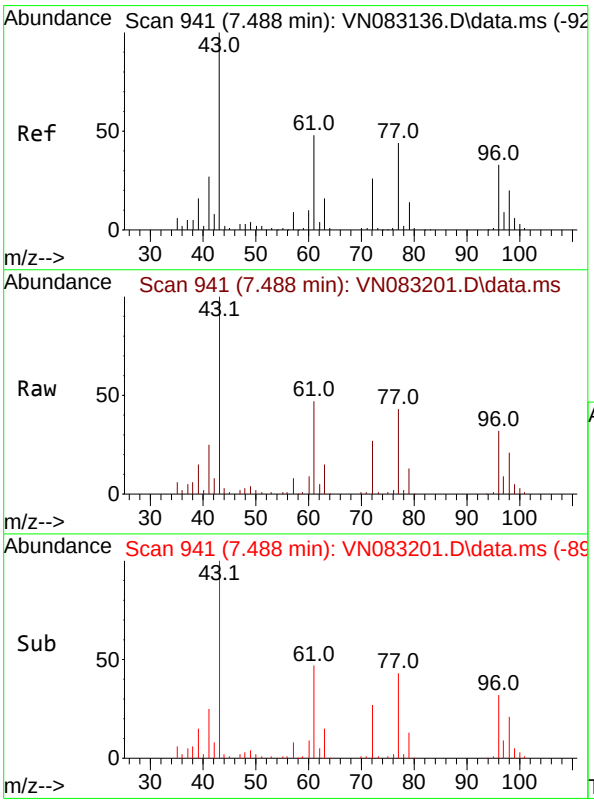
Ion	Ratio	Lower	Upper
43	100		
72	26.4	18.2	27.2

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

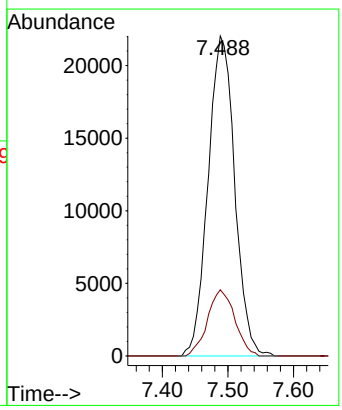


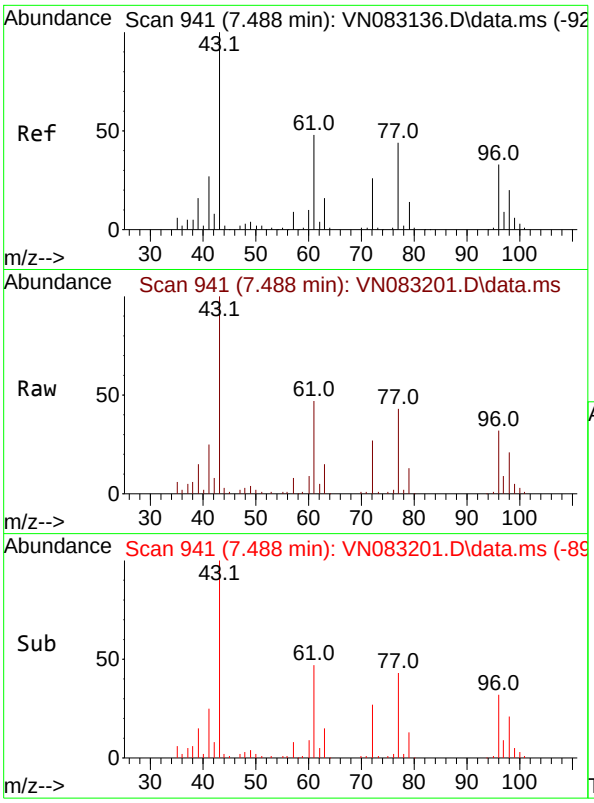


#26
2,2-Dichloropropane
Concen: 19.452 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 77 Resp: 62181

Ion	Ratio	Lower	Upper
77	100		
97	21.1	10.3	30.9





#27
cis-1,2-Dichloroethene
Concen: 19.200 ug/l
RT: 7.488 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

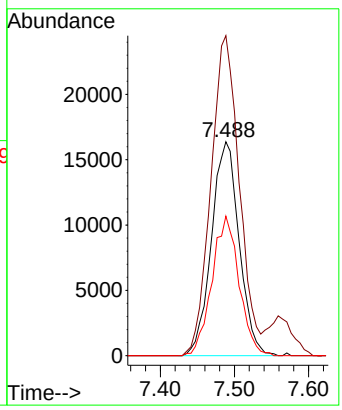
Tgt Ion: 96 Resp: 4257

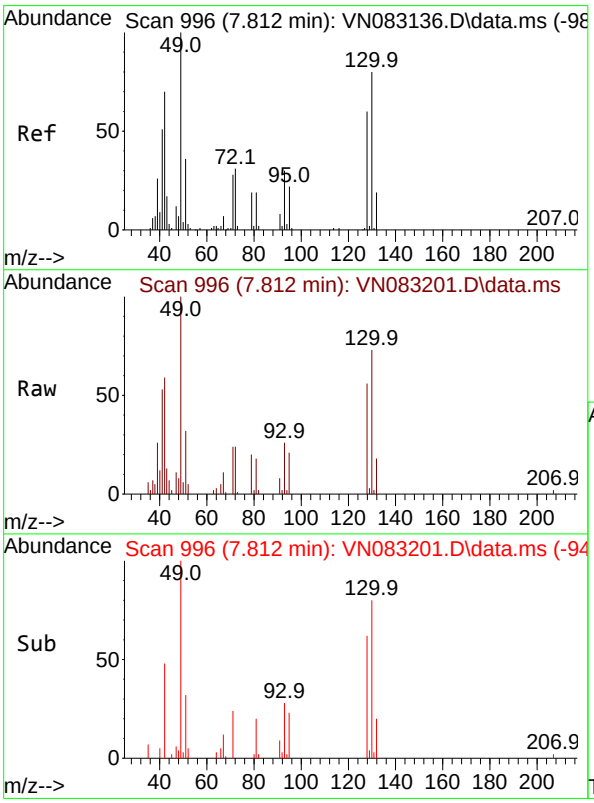
Ion	Ratio	Lower	Upper
96	100		
61	153.1	0.0	329.6
98	63.7	0.0	128.6

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

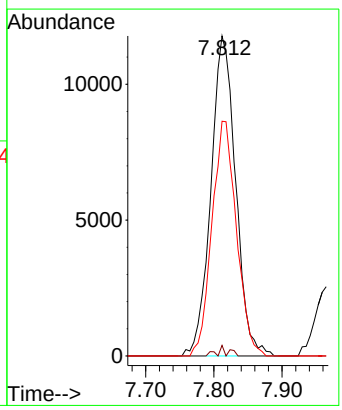


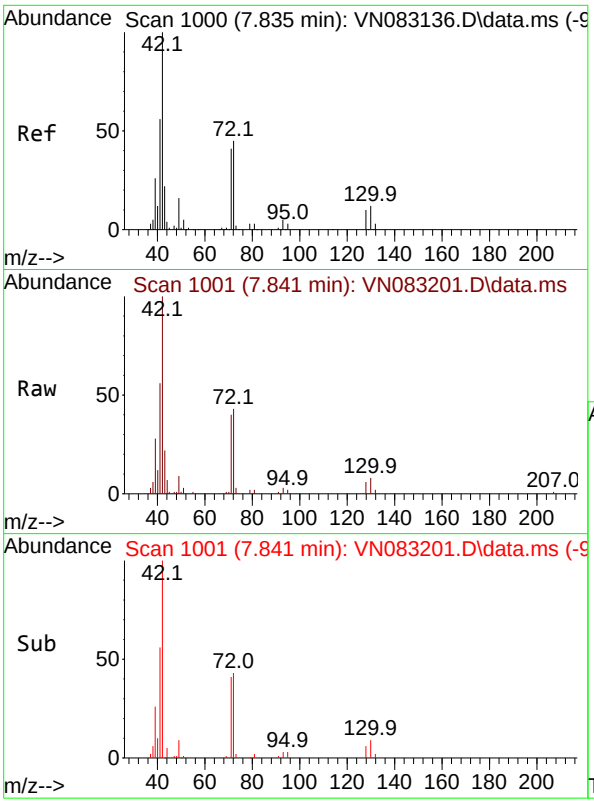


#28
Bromochloromethane
Concen: 21.162 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 49 Resp: 29768

Ion	Ratio	Lower	Upper
49	100		
129	1.0	0.0	3.8
130	72.7	50.5	75.7

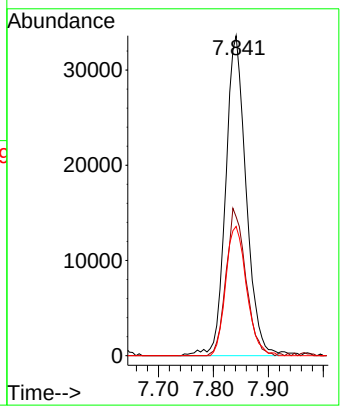




#29
Tetrahydrofuran
Concen: 97.916 ug/l
RT: 7.841 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 42 Resp: 8681

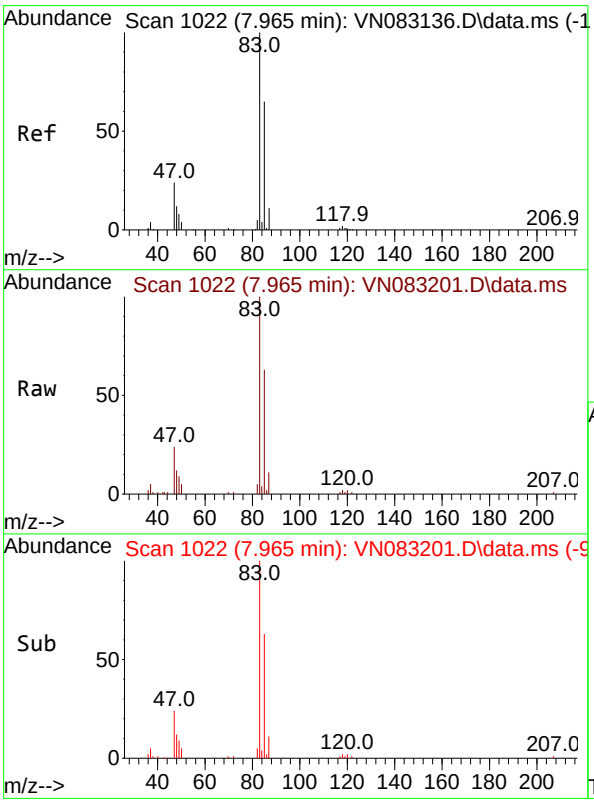
Ion	Ratio	Lower	Upper
42	100		
72	44.5	30.0	45.0
71	41.3	28.3	42.5



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

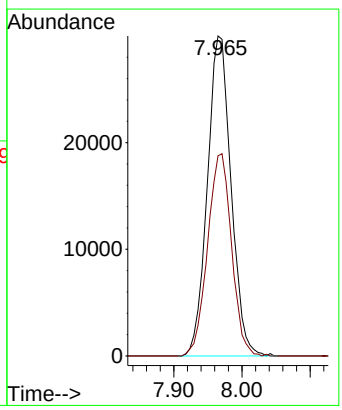
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

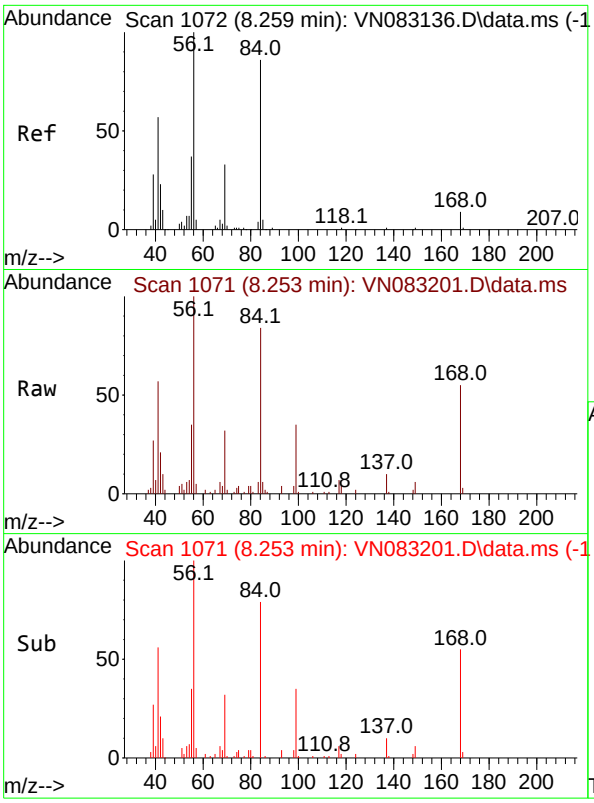


#30
Chloroform
Concen: 20.269 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 83 Resp: 72482

Ion	Ratio	Lower	Upper
83	100		
85	62.5	50.9	76.3





#31
Cyclohexane
Concen: 17.417 ug/l
RT: 8.253 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

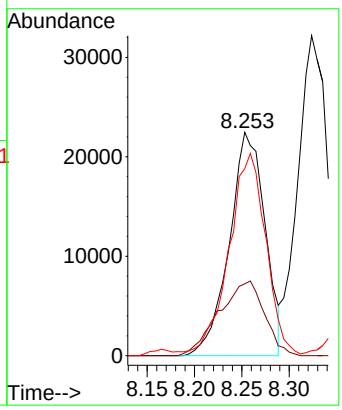
Tgt Ion: 56 Resp: 5891

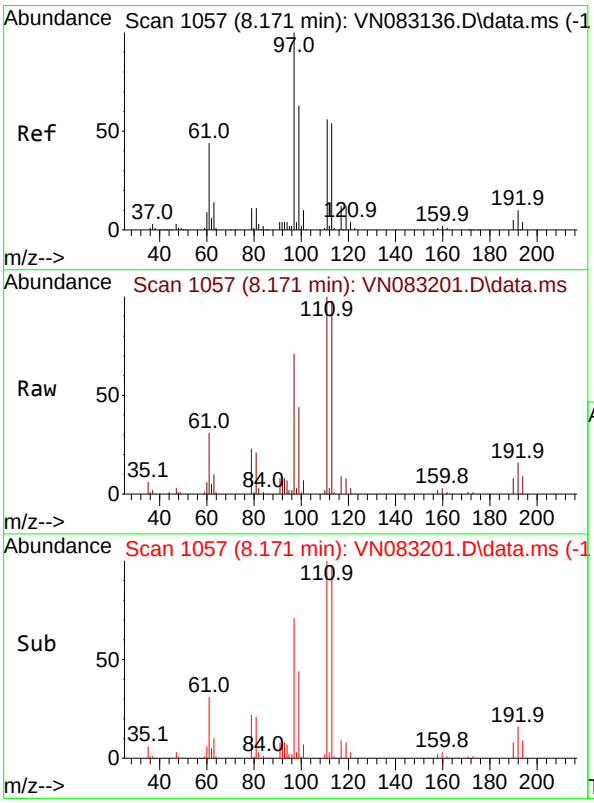
Ion	Ratio	Lower	Upper
56	100		
69	32.1	24.5	36.7
84	82.0	66.0	99.0

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

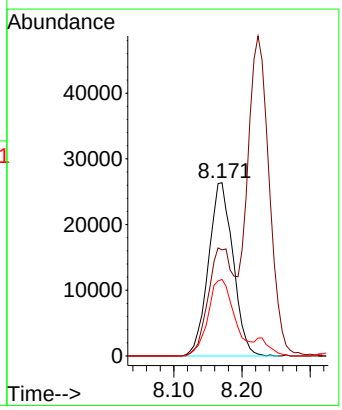


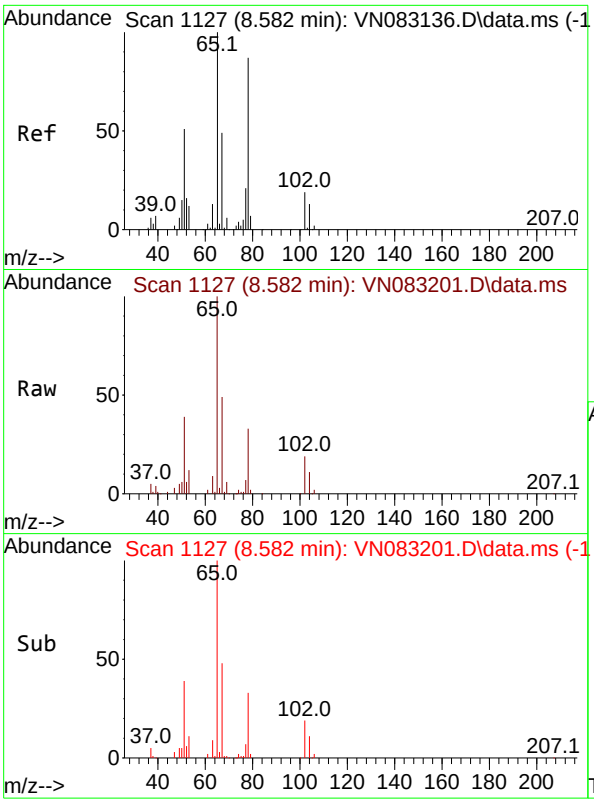


#32
1,1,1-Trichloroethane
Concen: 19.562 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 97 Resp: 66215

Ion	Ratio	Lower	Upper
97	100		
99	67.2	52.0	78.0
61	48.4	42.1	63.1

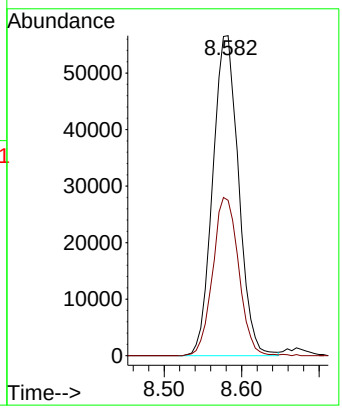




#33
1,2-Dichloroethane-d4
Concen: 57.464 ug/l
RT: 8.582 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 65 Resp: 13117

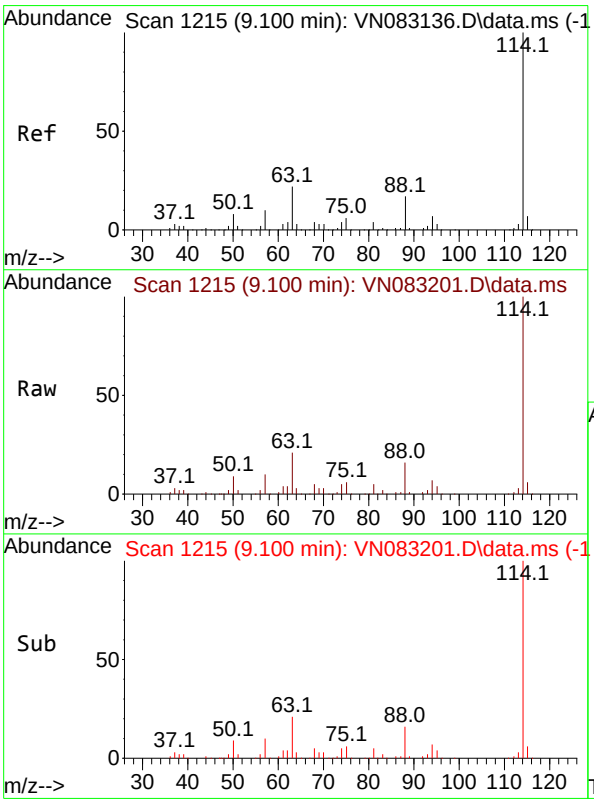
Ion	Ratio	Lower	Upper
65	100		
67	49.6	0.0	104.4



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

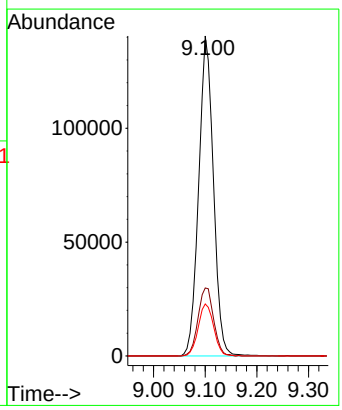
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

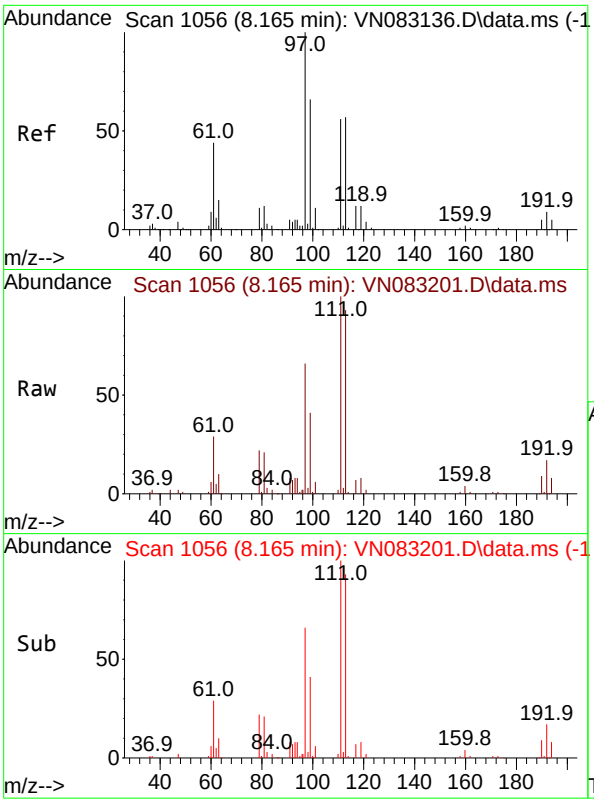


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion:114 Resp: 278670

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	44.6
88	16.2	0.0	31.4

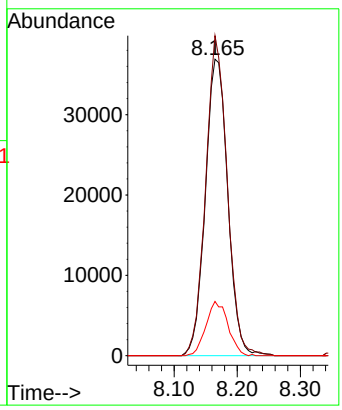




#35
Dibromofluoromethane
Concen: 52.405 ug/l
RT: 8.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion:113 Resp: 9115

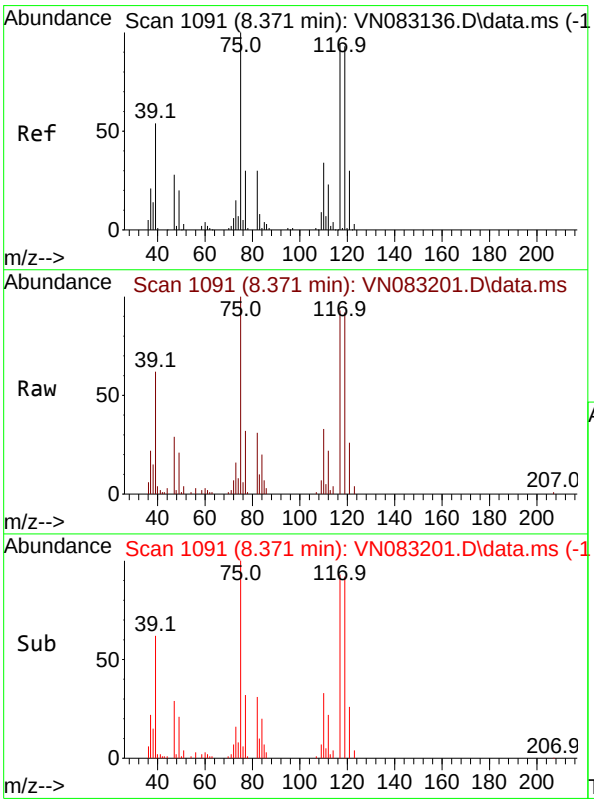
Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.4	123.6
192	18.0	14.9	22.3



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

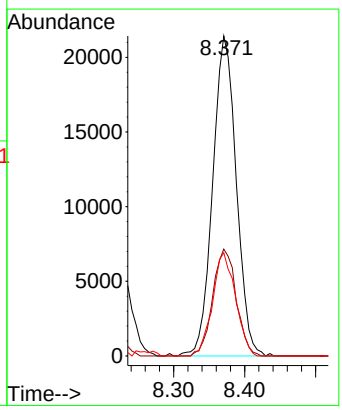
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

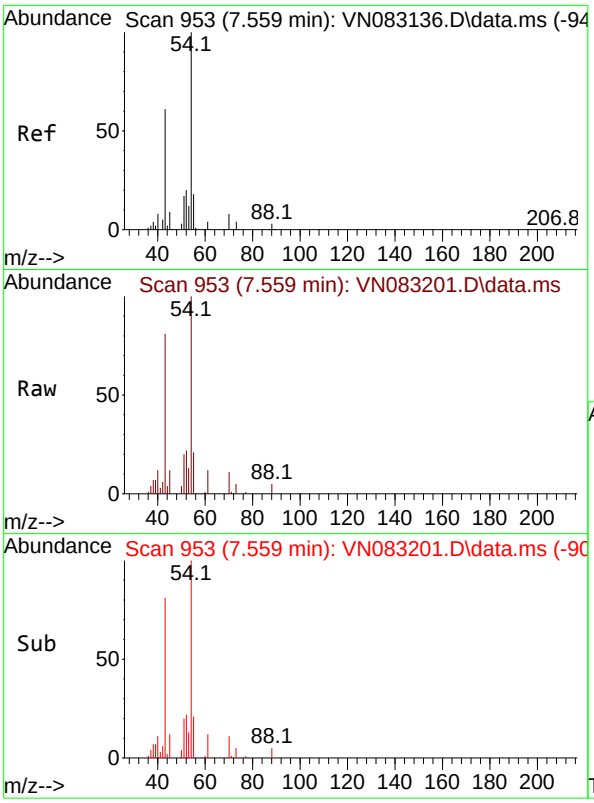


#36
1,1-Dichloropropene
Concen: 18.755 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 75 Resp: 49350

Ion	Ratio	Lower	Upper
75	100		
110	33.2	16.3	48.9
77	31.5	24.6	37.0





#37
Ethyl Acetate
Concen: 18.246 ug/l
RT: 7.559 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

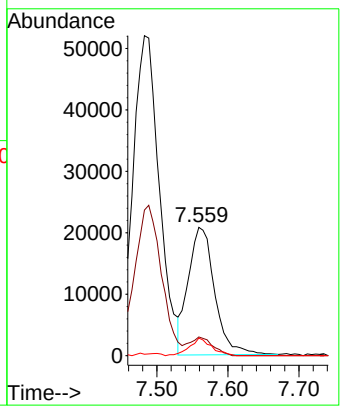
Tgt Ion: 43 Resp: 5375

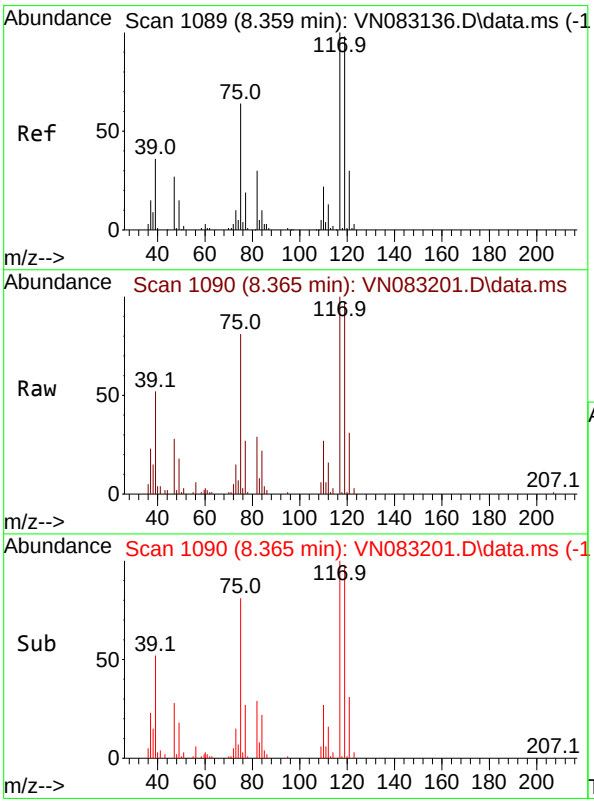
Ion	Ratio	Lower	Upper
43	100		
61	11.7	9.3	13.9
70	11.4	7.0	10.6

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

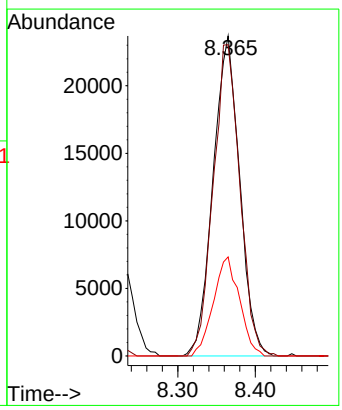


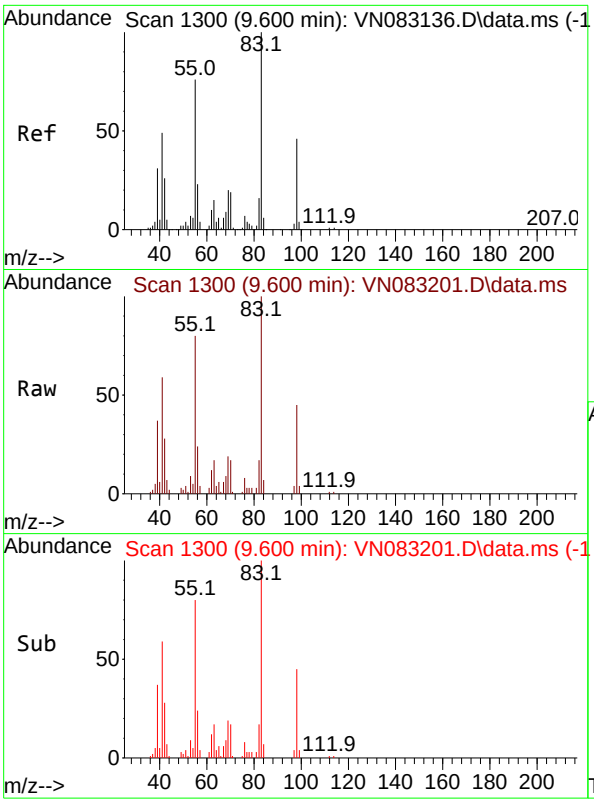


#38
Carbon Tetrachloride
Concen: 19.053 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.006 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion:117 Resp: 56464

Ion	Ratio	Lower	Upper
117	100		
119	97.2	74.9	112.3
121	31.0	24.3	36.5





#39
Methylcyclohexane
Concen: 18.270 ug/l
RT: 9.600 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

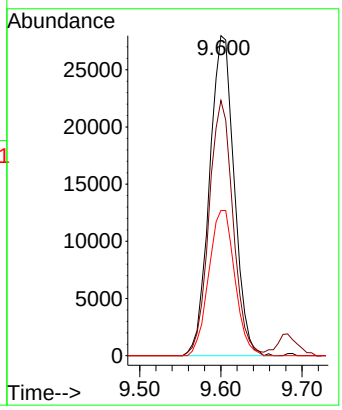
Tgt Ion: 83 Resp: 5904

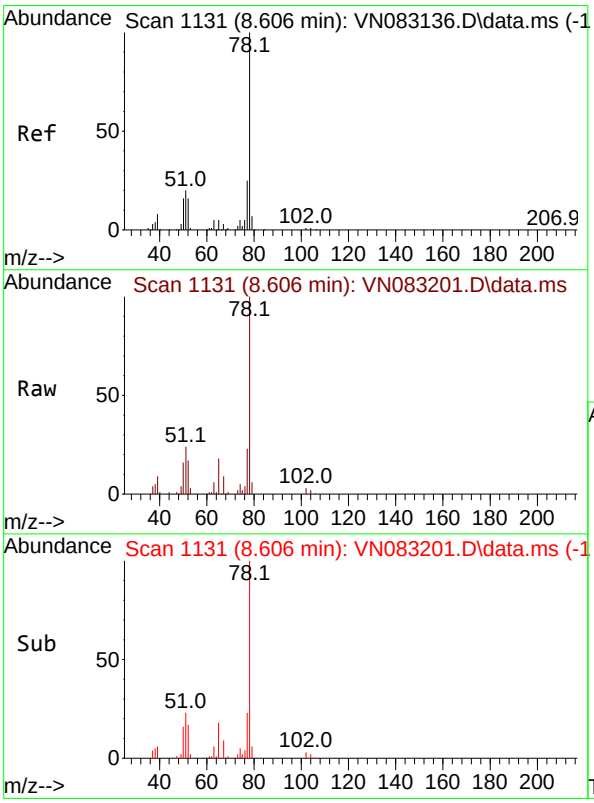
Ion	Ratio	Lower	Upper
83	100		
55	79.7	66.4	99.6
98	45.4	40.7	61.1

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

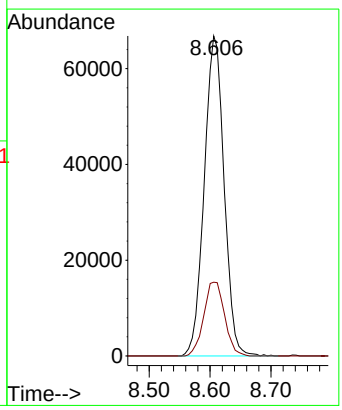


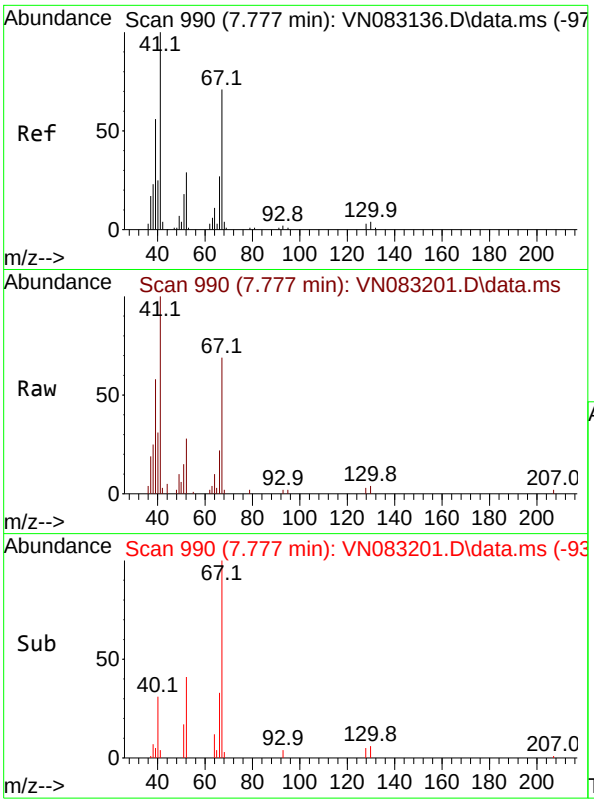


#40
Benzene
Concen: 19.307 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 78 Resp: 151338

Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.0	28.4

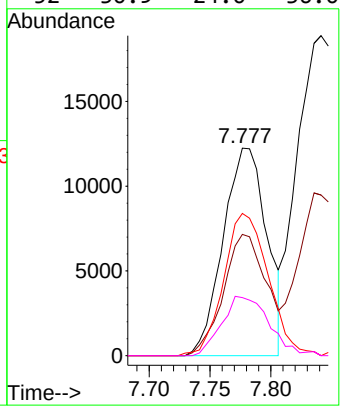




#41
Methacrylonitrile
Concen: 18.301 ug/l
RT: 7.777 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 41 Resp: 3065

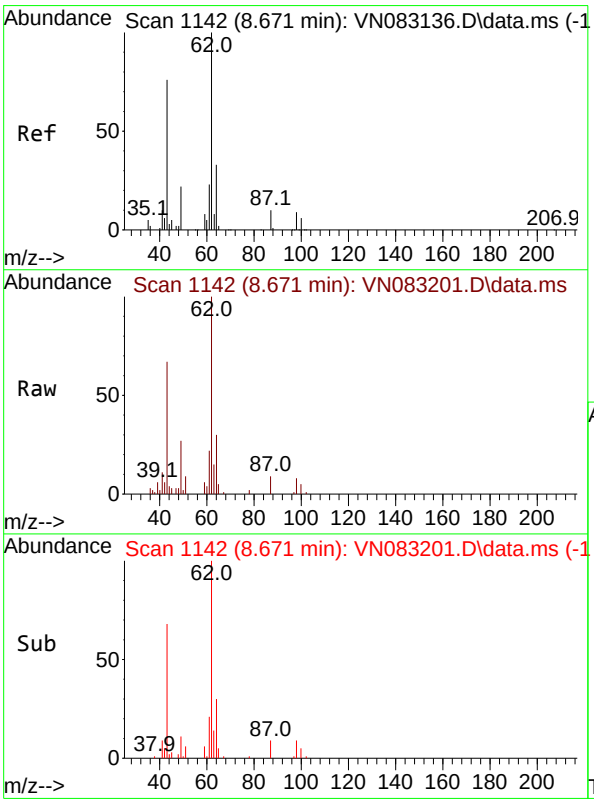
Ion	Ratio	Lower	Upper
41	100		
39	57.1	45.5	68.3
67	69.9	50.5	75.7
52	30.9	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

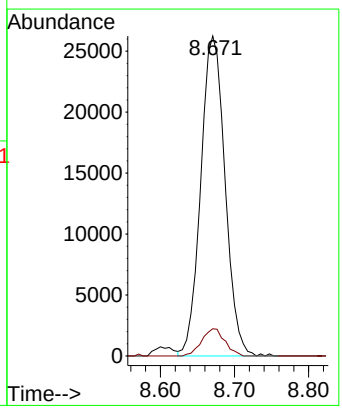
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

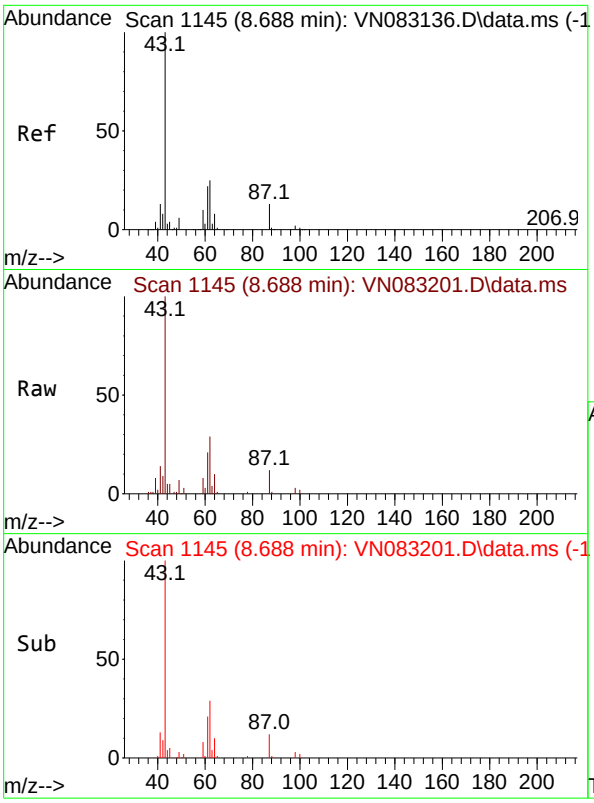


#42
1,2-Dichloroethane
Concen: 20.921 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 62 Resp: 59737

Ion	Ratio	Lower	Upper
62	100		
98	8.1	0.0	15.8





#43
Isopropyl Acetate
Concen: 17.912 ug/l
RT: 8.688 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

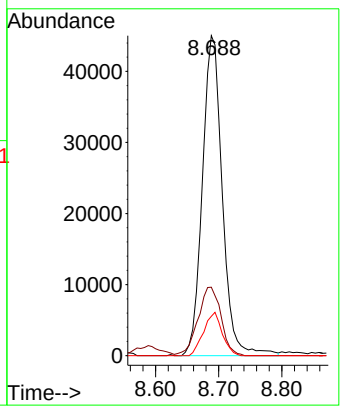
Tgt Ion: 43 Resp: 9884

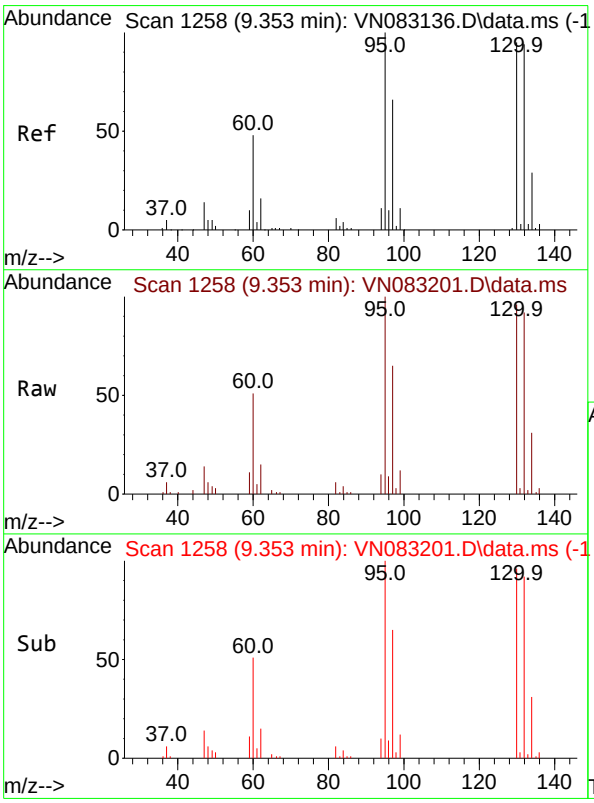
Ion	Ratio	Lower	Upper
43	100		
61	24.6	17.8	26.6
87	12.6	8.2	12.2

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

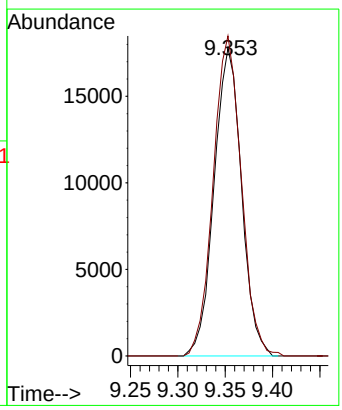


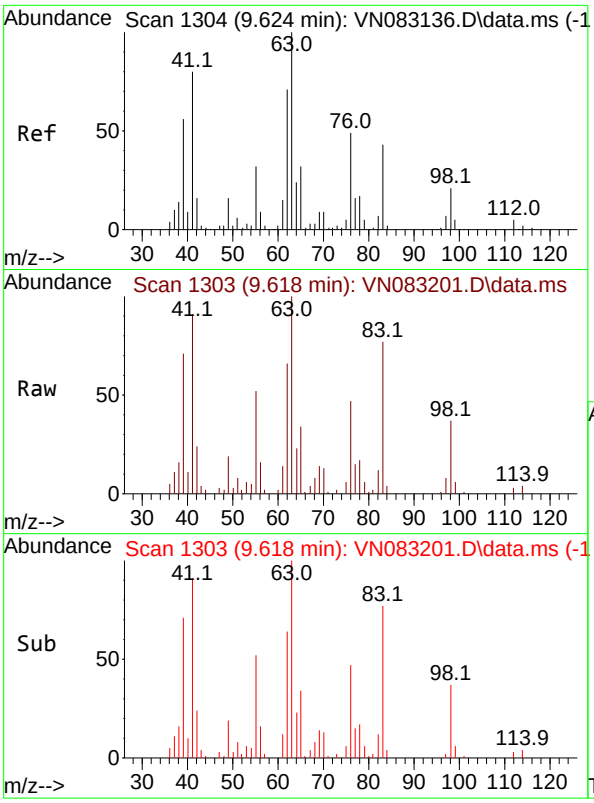


#44
Trichloroethene
Concen: 19.207 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion:130 Resp: 35835

Ion	Ratio	Lower	Upper
130	100		
95	104.0	0.0	197.8

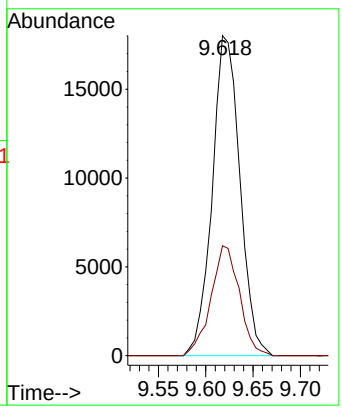




#45
1,2-Dichloropropane
Concen: 19.700 ug/l
RT: 9.618 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 63 Resp: 3665

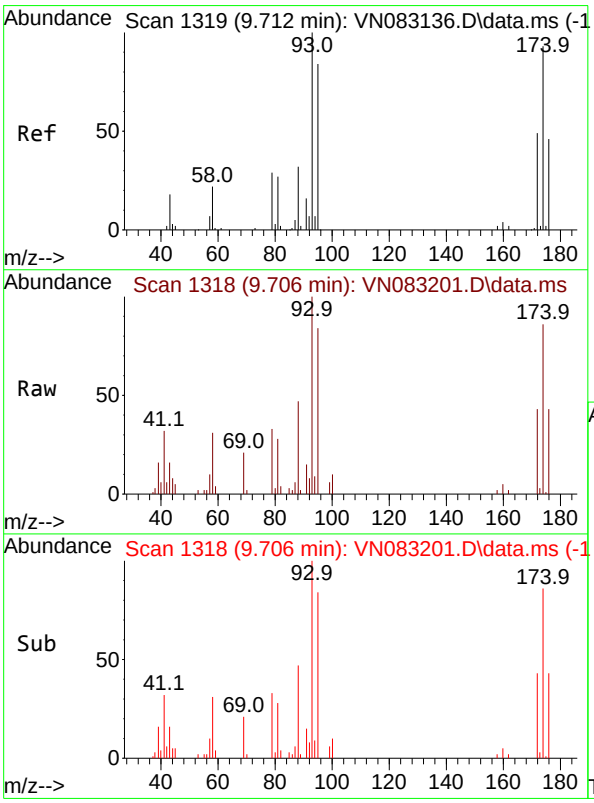
Ion	Ratio	Lower	Upper
63	100		
65	34.3	24.4	36.6



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

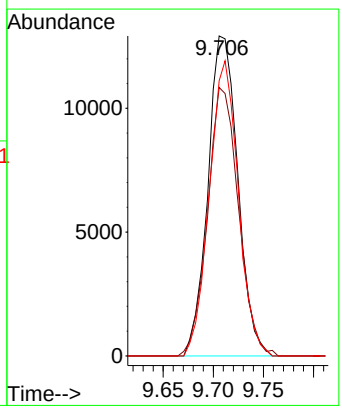
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

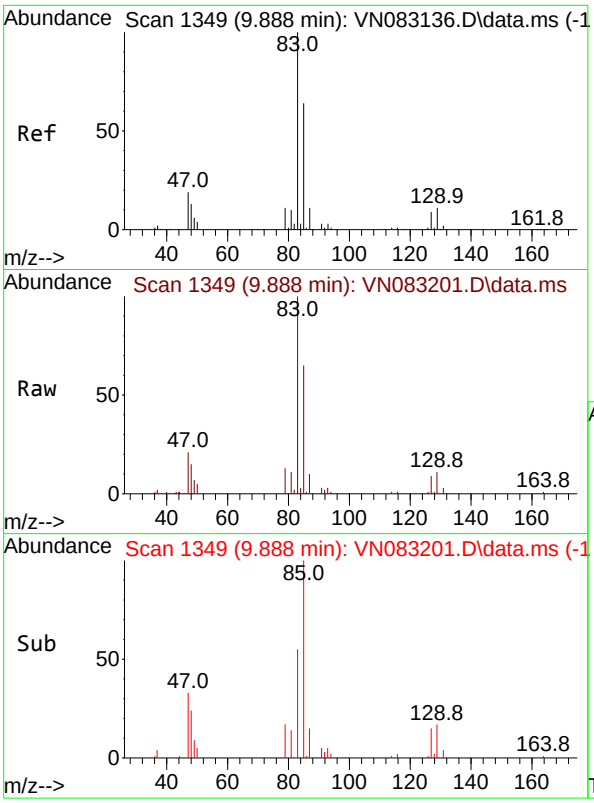


#46
Dibromomethane
Concen: 20.143 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.006 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 93 Resp: 26827

Ion	Ratio	Lower	Upper
93	100		
95	86.7	65.8	98.6
174	89.5	71.7	107.5

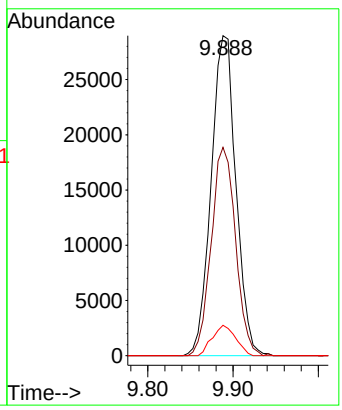




#47
Bromodichloromethane
Concen: 19.569 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 83 Resp: 5851

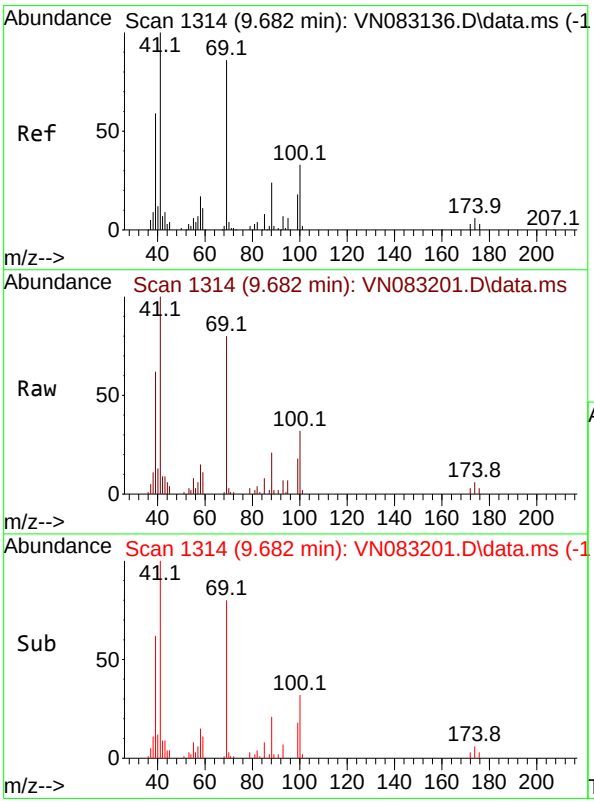
Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.1	76.7
127	9.5	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

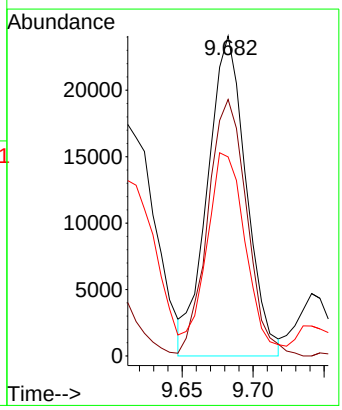
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

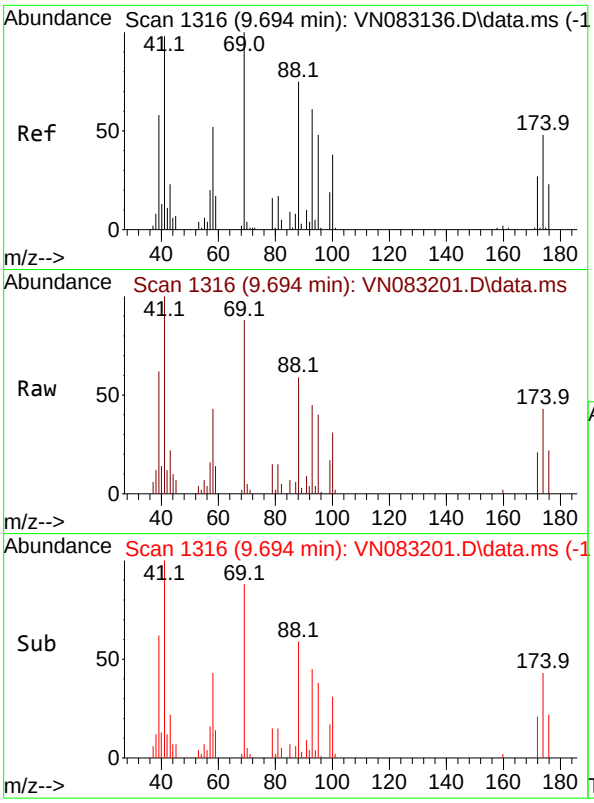


#48
Methyl methacrylate
Concen: 18.707 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 41 Resp: 45564

Ion	Ratio	Lower	Upper
41	100		
69	81.0	56.3	84.5
39	65.0	50.3	75.5





#49
1,4-Dioxane
Concen: 381.344 ug/l
RT: 9.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

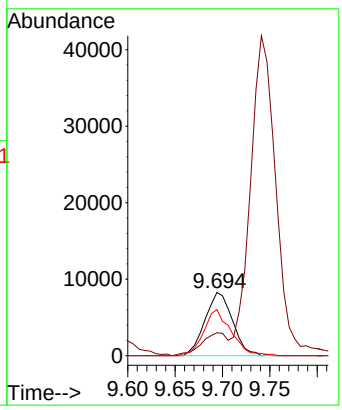
Tgt Ion: 88 Resp: 1675

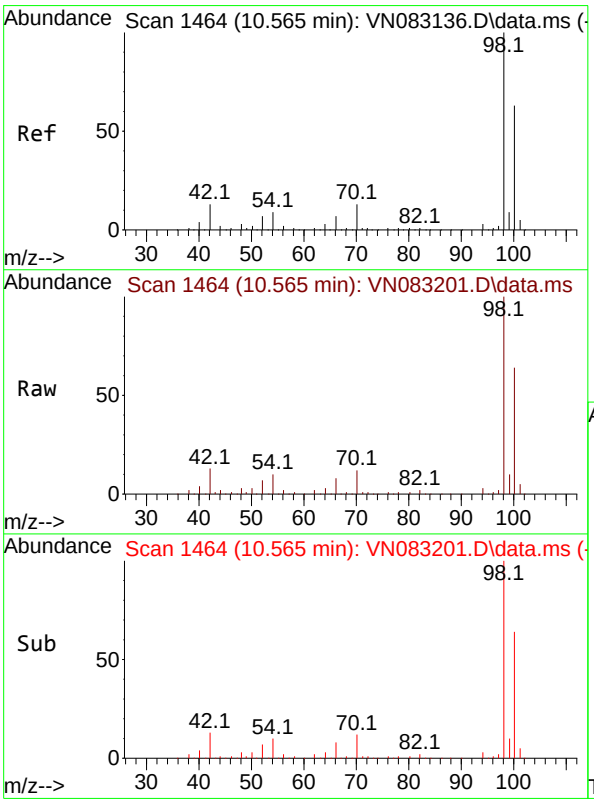
Ion	Ratio	Lower	Upper
88	100		
43	33.6	27.8	41.8
58	72.4	59.4	89.0

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

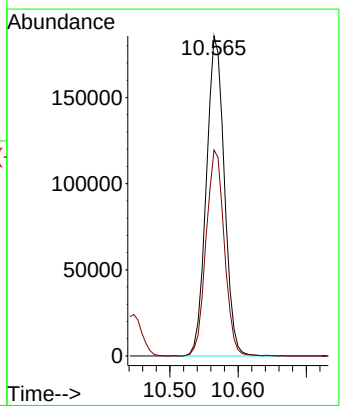


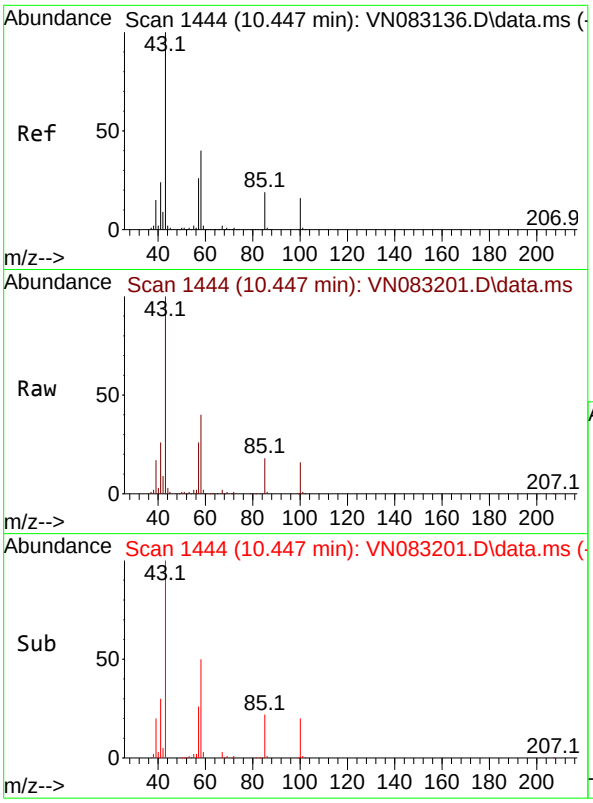


#50
Toluene-d8
Concen: 52.524 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 98 Resp: 340795

Ion	Ratio	Lower	Upper
98	100		
100	65.4	51.5	77.3





#51
4-Methyl-2-Pentanone
Concen: 100.923 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

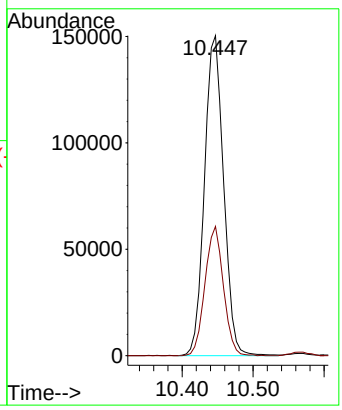
Tgt Ion: 43 Resp: 28116

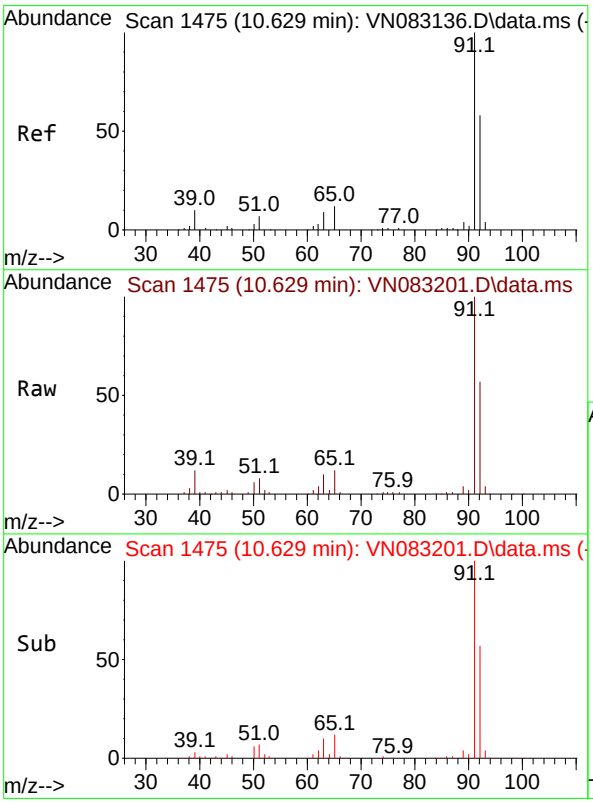
Ion	Ratio	Lower	Upper
43	100		
58	39.0	28.2	42.4

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

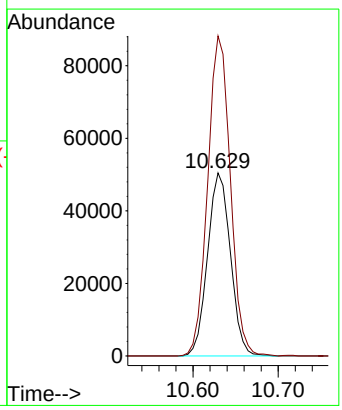


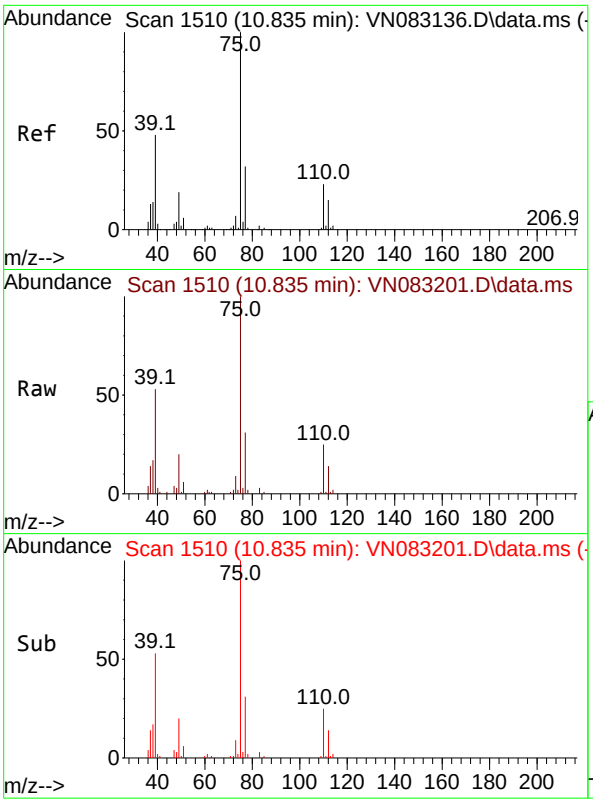


#52
Toluene
Concen: 19.005 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 92 Resp: 94127

Ion	Ratio	Lower	Upper
92	100		
91	173.3	139.4	209.0

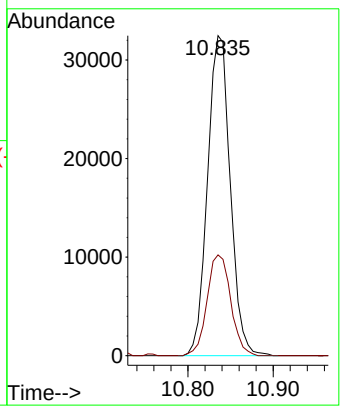




#53
t-1,3-Dichloropropene
Concen: 19.576 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 75 Resp: 6013

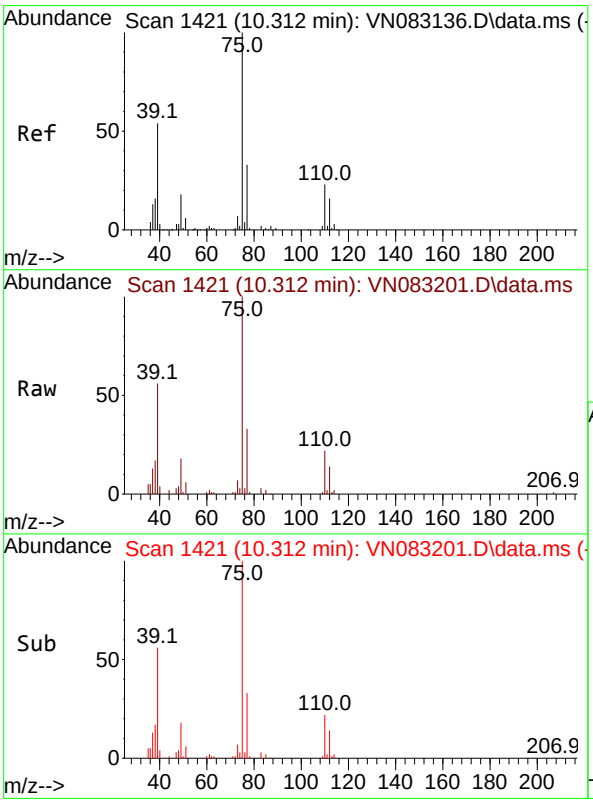
Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

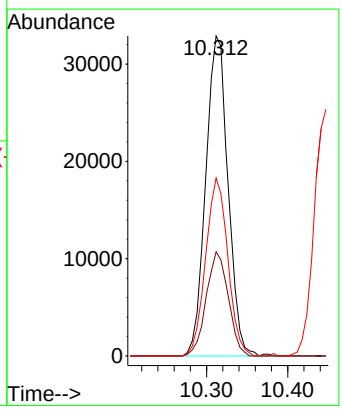
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

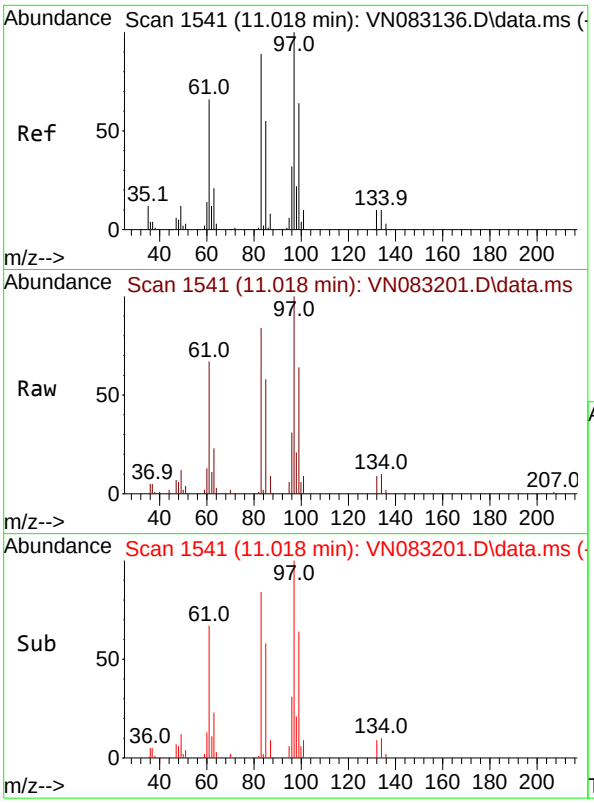


#54
cis-1,3-Dichloropropene
Concen: 19.185 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 75 Resp: 62682

Ion	Ratio	Lower	Upper
75	100		
77	32.5	24.3	36.5
39	55.6	50.5	75.7

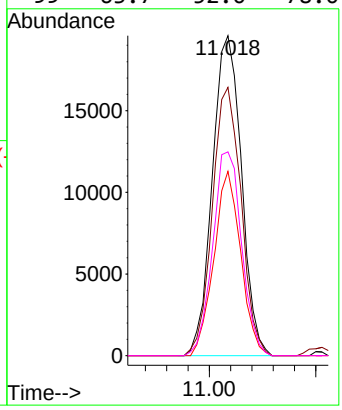




#55
1,1,2-Trichloroethane
Concen: 20.935 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 97 Resp: 3715

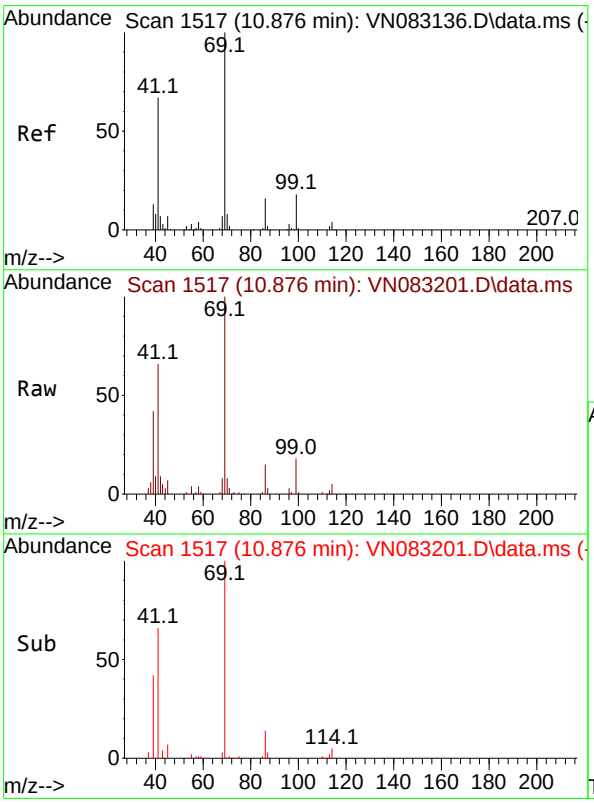
Ion	Ratio	Lower	Upper
97	100		
83	83.9	71.4	107.0
85	57.6	45.8	68.6
99	63.7	52.0	78.0



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

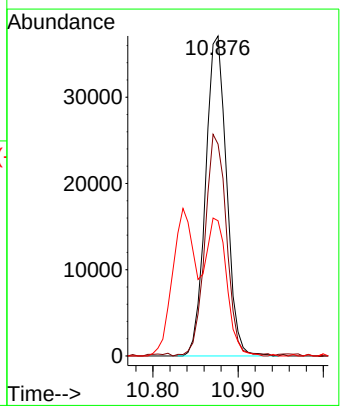
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

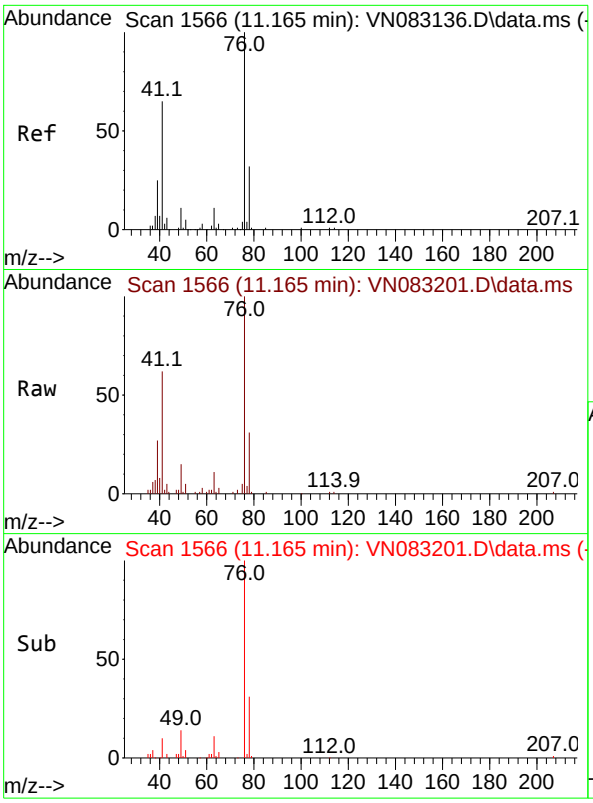


#56
Ethyl methacrylate
Concen: 18.933 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 69 Resp: 63349

Ion	Ratio	Lower	Upper
69	100		
41	71.2	63.4	95.2
39	44.8	37.4	56.0

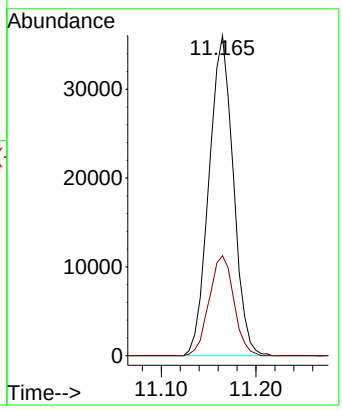




#57
1,3-Dichloropropane
Concen: 20.327 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 76 Resp: 6430

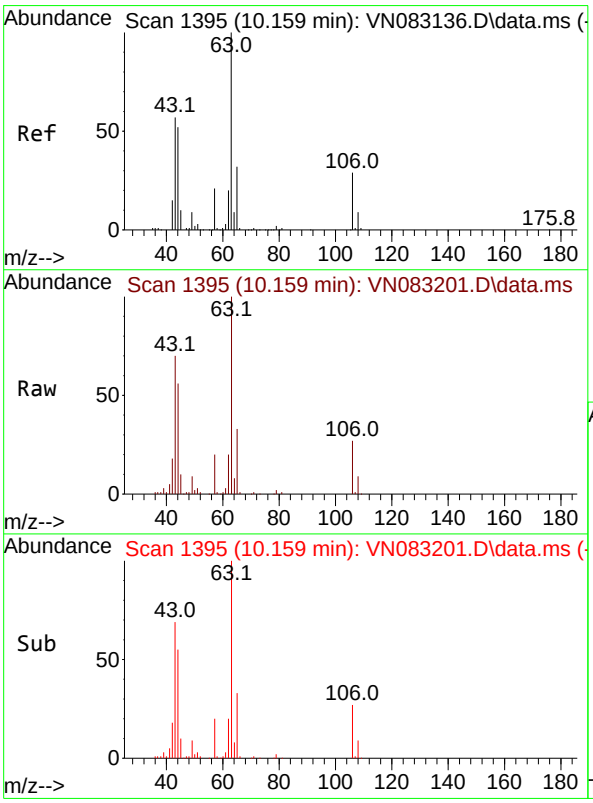
Ion	Ratio	Lower	Upper
76	100		
78	31.7	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

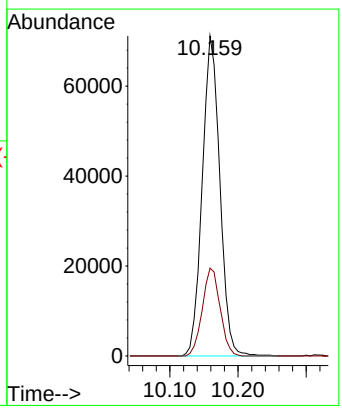
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

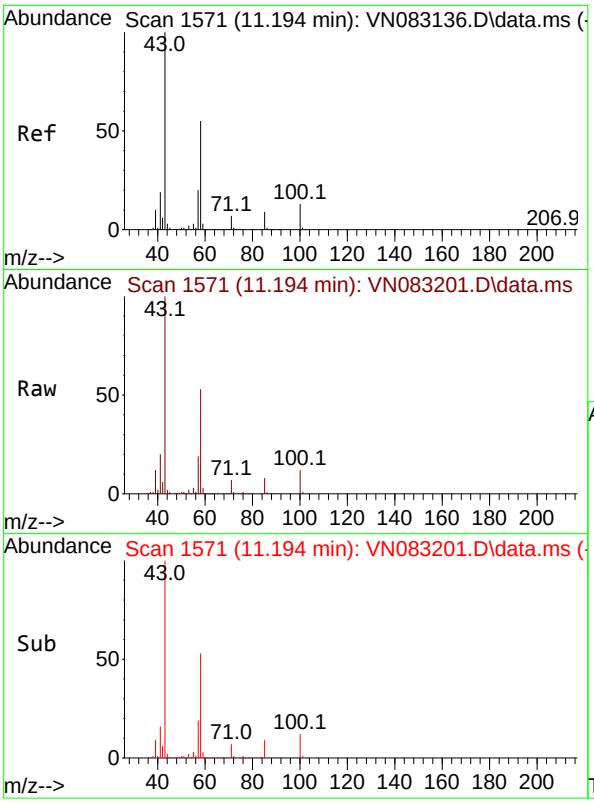


#58
2-Chloroethyl Vinyl ether
Concen: 90.365 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 63 Resp: 127808

Ion	Ratio	Lower	Upper
63	100		
106	27.6	21.4	32.0





#59
2-Hexanone
Concen: 98.501 ug/l
RT: 11.194 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

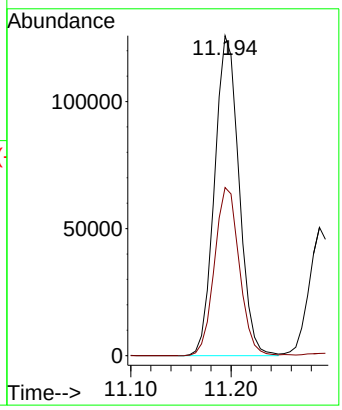
Tgt Ion: 43 Resp: 21230

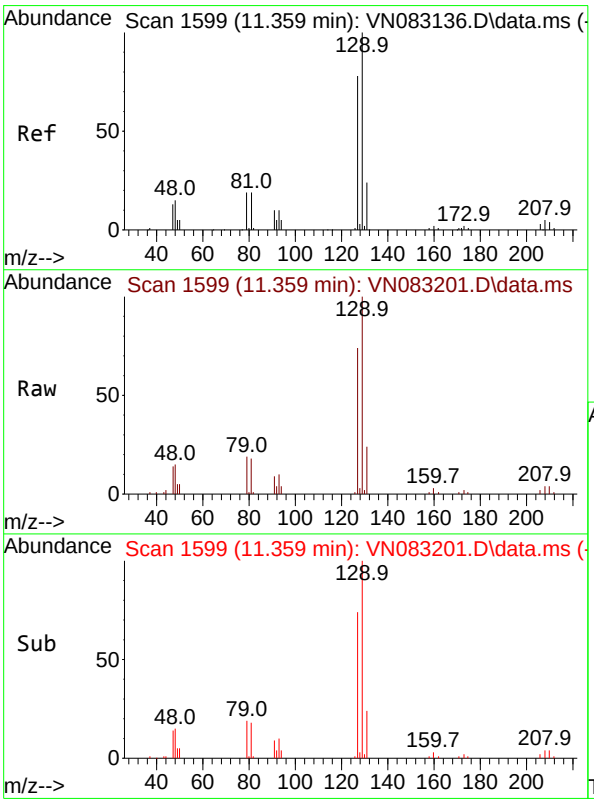
Ion	Ratio	Lower	Upper
43	100		
58	53.7	24.6	73.8

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

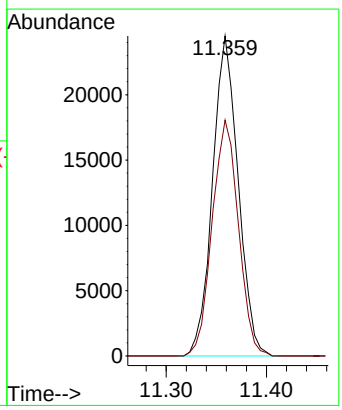


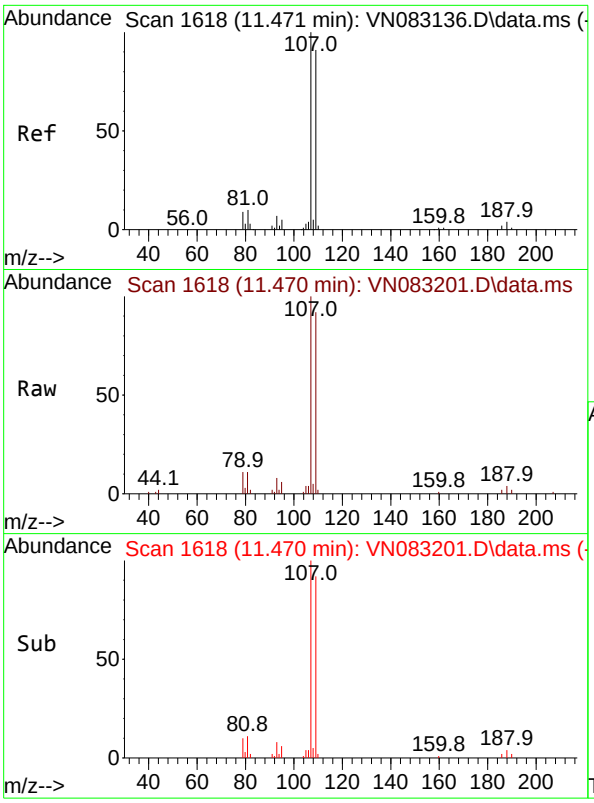


#60
Dibromochloromethane
Concen: 20.261 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion:129 Resp: 43479

Ion	Ratio	Lower	Upper
129	100		
127	75.5	39.2	117.6





#61
1,2-Dibromoethane
Concen: 20.023 ug/l
RT: 11.470 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

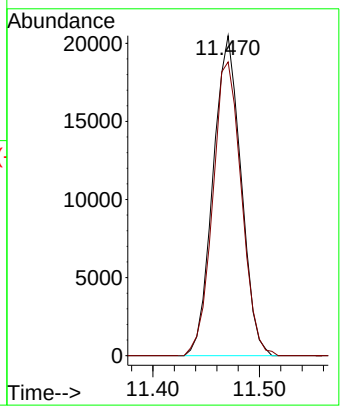
Tgt Ion:107 Resp: 3733

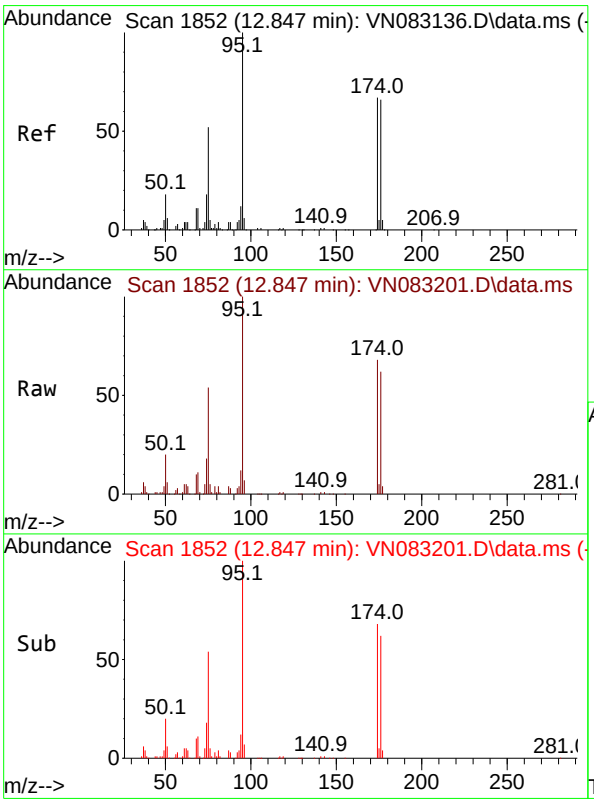
Ion	Ratio	Lower	Upper
107	100		
109	94.1	73.7	110.5

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

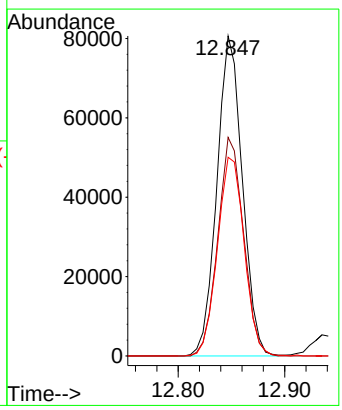


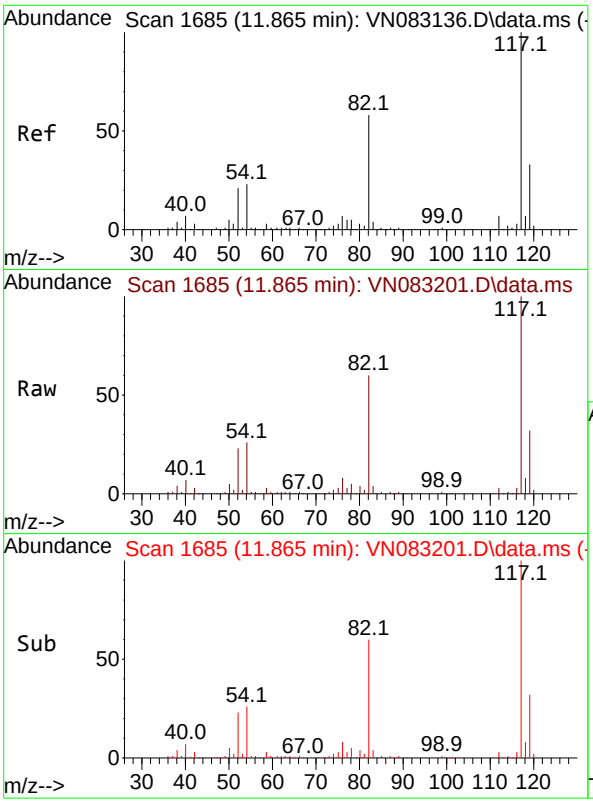


#62
4-Bromofluorobenzene
Concen: 52.936 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 95 Resp: 133905

Ion	Ratio	Lower	Upper
95	100		
174	68.9	0.0	159.2
176	65.3	0.0	147.6

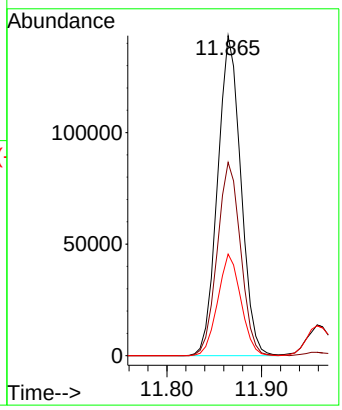




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion:117 Resp: 245098

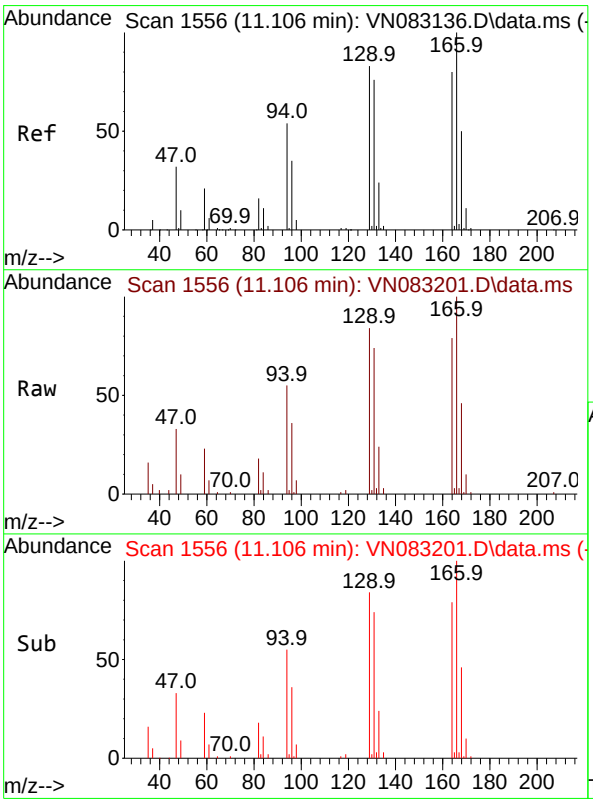
Ion	Ratio	Lower	Upper
117	100		
82	60.4	47.5	71.3
119	31.7	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

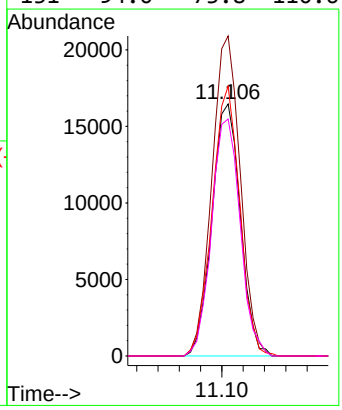
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

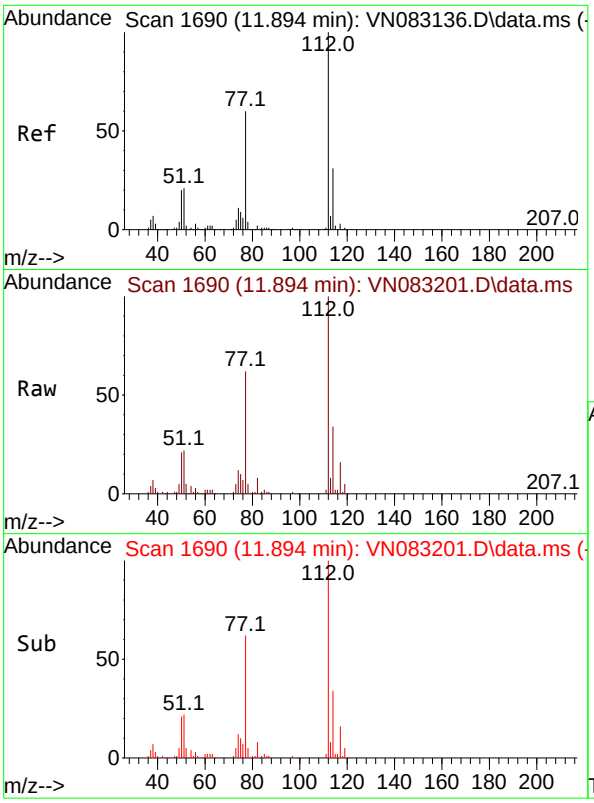


#64
Tetrachloroethene
Concen: 18.683 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion:164 Resp: 30326

Ion	Ratio	Lower	Upper
164	100		
166	127.0	101.4	152.0
129	107.0	75.7	113.5
131	94.0	73.8	110.6

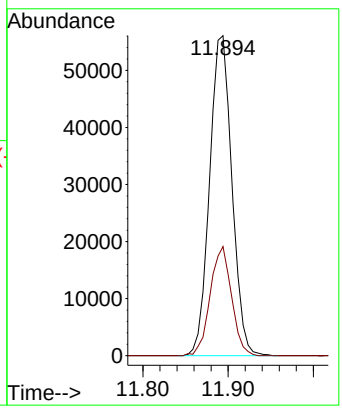




#65
Chlorobenzene
Concen: 18.837 ug/l
RT: 11.894 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion:112 Resp: 10202

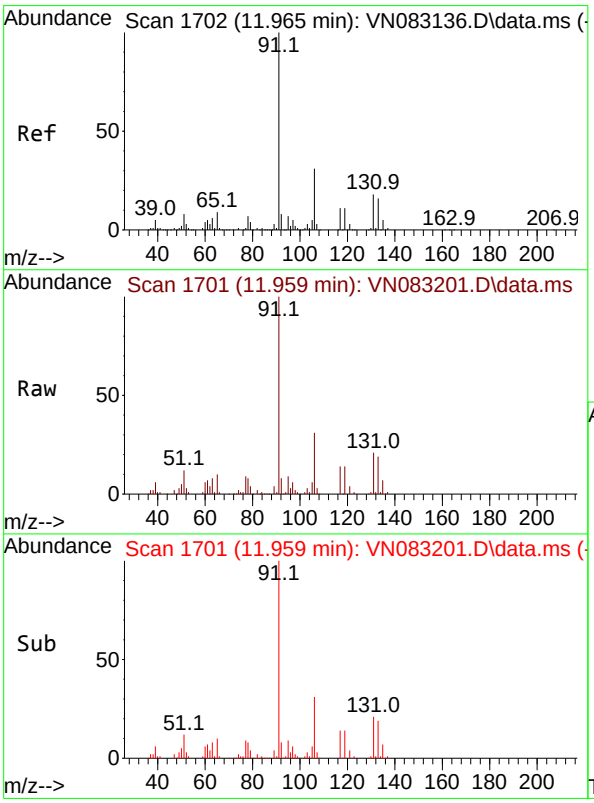
Ion	Ratio	Lower	Upper
112	100		
114	34.1	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

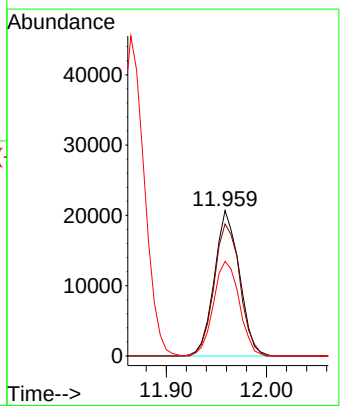
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

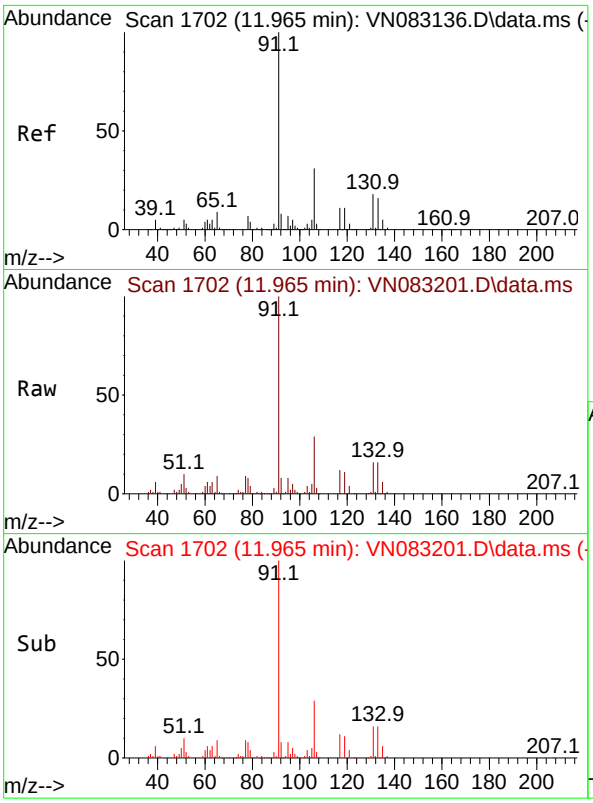


#66
1,1,1,2-Tetrachloroethane
Concen: 18.814 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion:131 Resp: 35939

Ion	Ratio	Lower	Upper
131	100		
133	93.7	47.3	142.0
119	67.1	32.5	97.4





#67
Ethyl Benzene
Concen: 18.742 ug/l
RT: 11.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

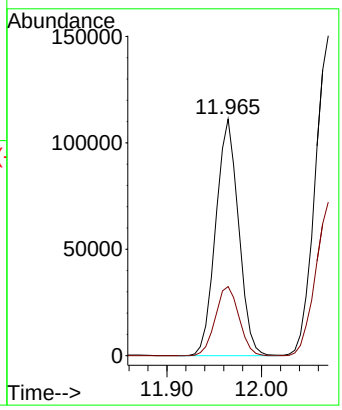
Tgt Ion: 91 Resp: 18621

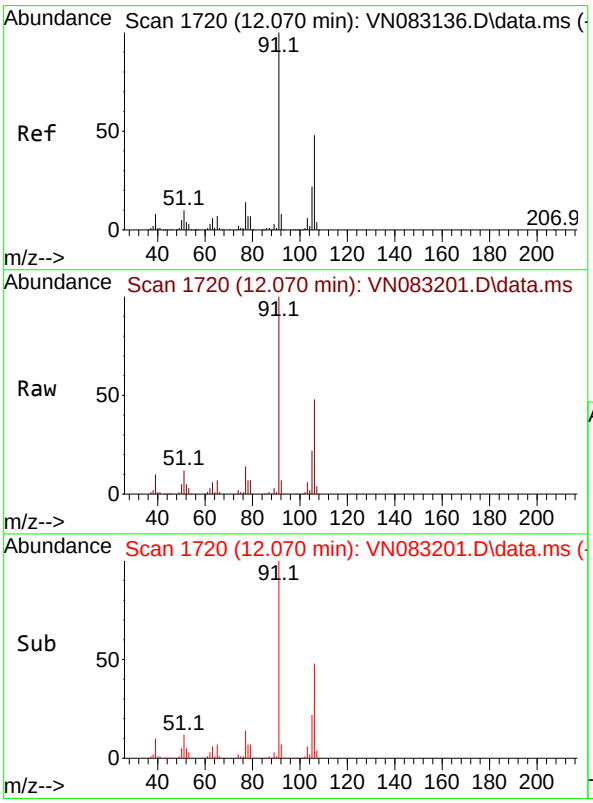
Ion	Ratio	Lower	Upper
91	100		
106	29.2	24.0	36.0

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

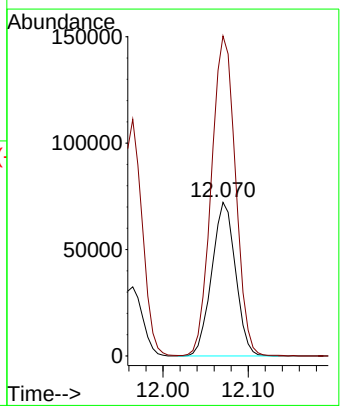


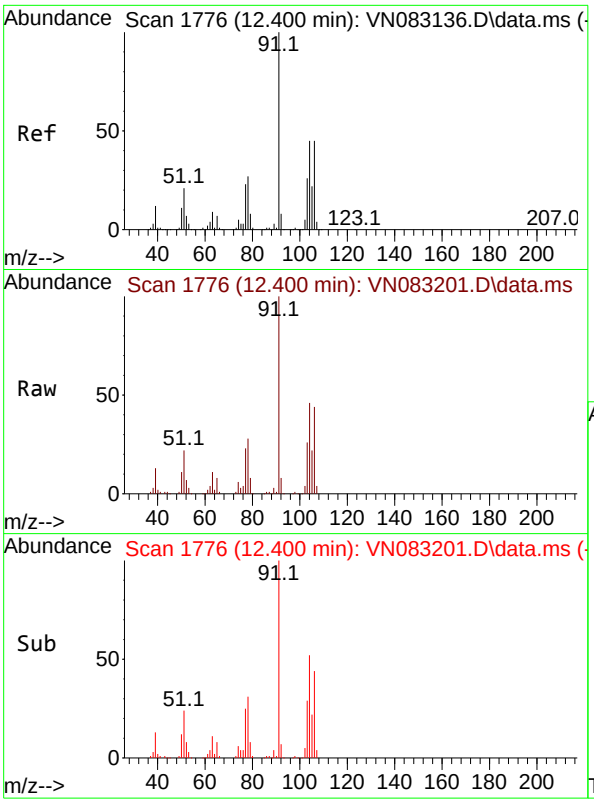


#68
m/p-Xylenes
Concen: 37.579 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion:106 Resp: 139868

Ion	Ratio	Lower	Upper
106	100		
91	212.0	166.1	249.1





#69
o-Xylene
Concen: 18.678 ug/l
RT: 12.400 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

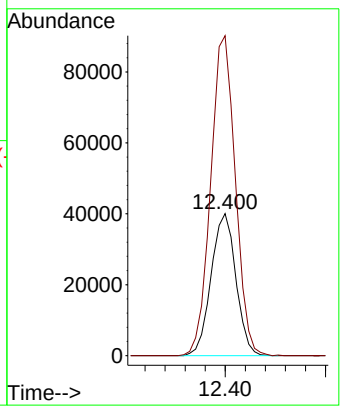
Tgt Ion:106 Resp: 6856

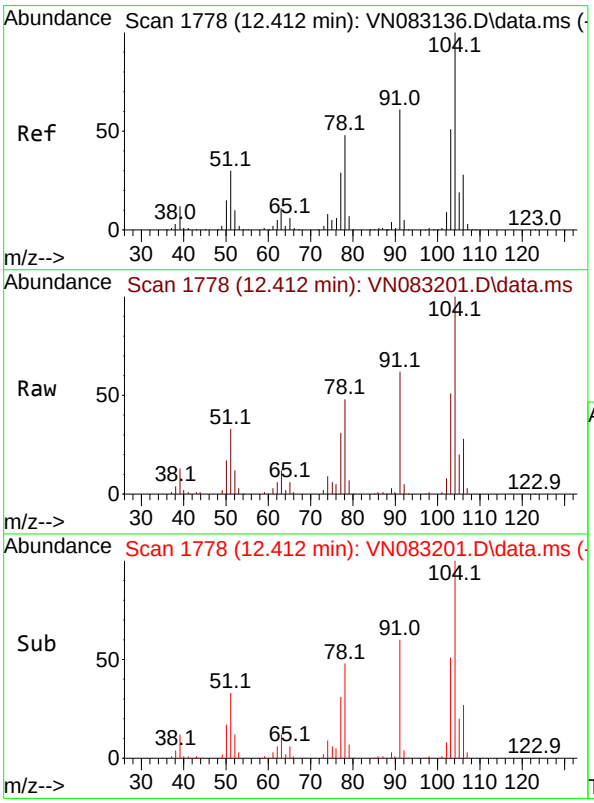
Ion	Ratio	Lower	Upper
106	100		
91	224.5	111.3	333.9

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

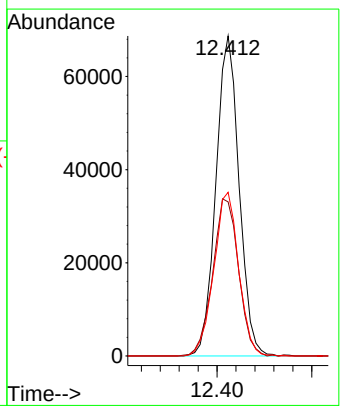


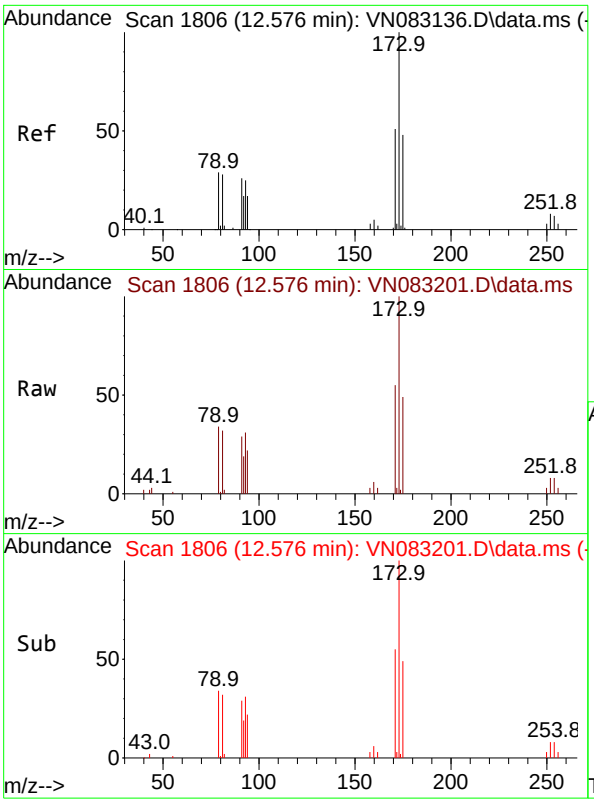


#70
Styrene
Concen: 18.918 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion:104 Resp: 116638

Ion	Ratio	Lower	Upper
104	100		
78	54.9	41.6	62.4
103	54.8	44.0	66.0





#71
Bromoform
Concen: 18.749 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

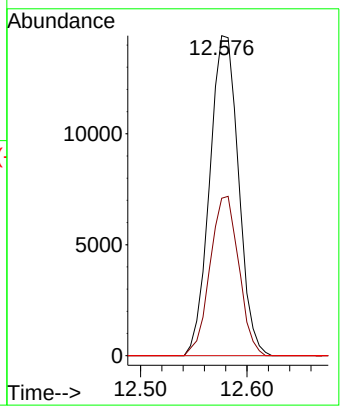
Tgt Ion:173 Resp: 2713

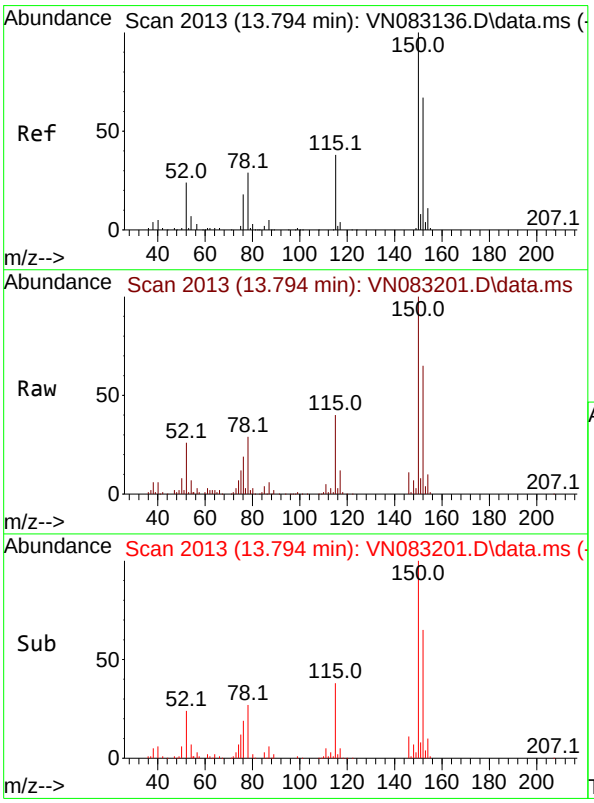
Ion	Ratio	Lower	Upper
173	100		
175	49.6	24.0	72.0
254	0.0	0.0	0.0

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

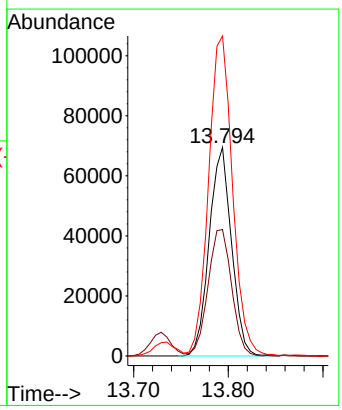


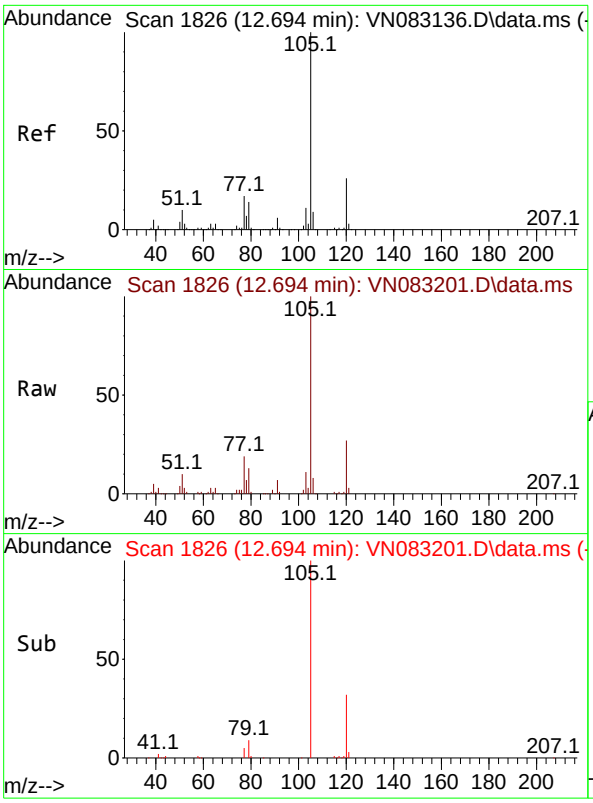


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion:152 Resp: 113742

Ion	Ratio	Lower	Upper
152	100		
115	64.2	30.6	91.6
150	164.4	0.0	348.6

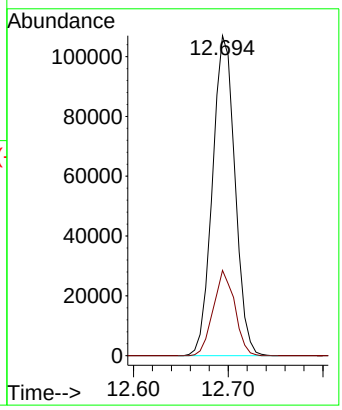




#73
Isopropylbenzene
Concen: 18.575 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion:105 Resp: 17671

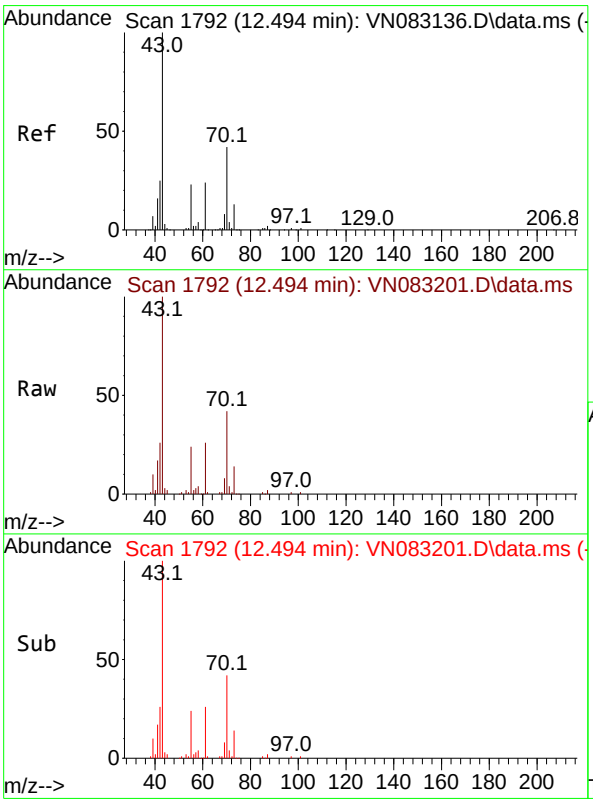
Ion	Ratio	Lower	Upper
105	100		
120	25.4	12.9	38.6



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

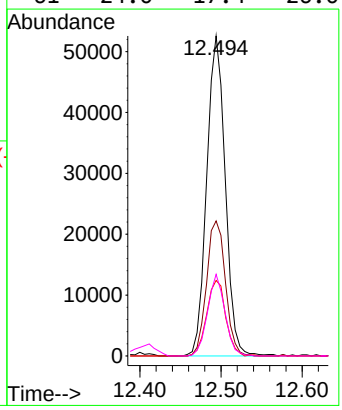
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

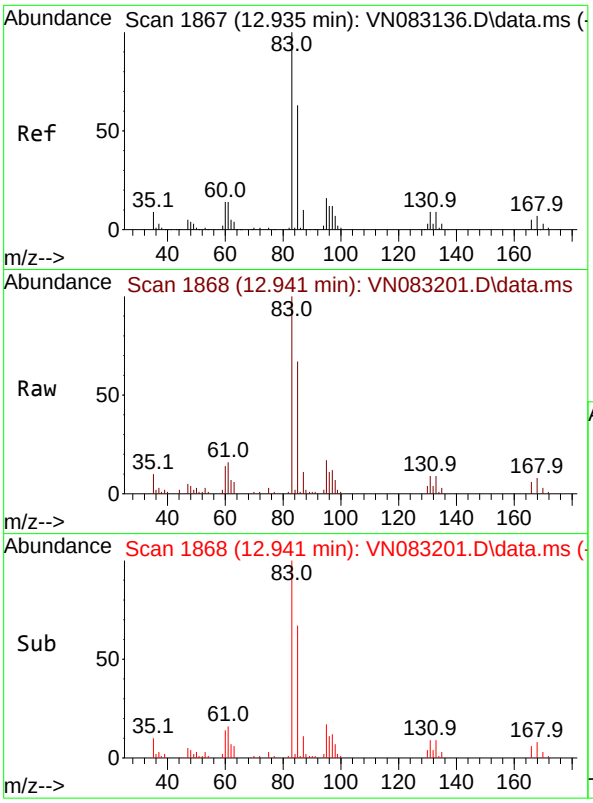


#74
N-amyl acetate
Concen: 17.894 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 43 Resp: 83269

Ion	Ratio	Lower	Upper
43	100		
70	42.9	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: 19.554 ug/l
RT: 12.941 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

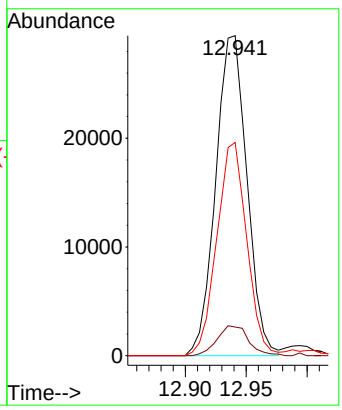
Tgt Ion: 83 Resp: 5261

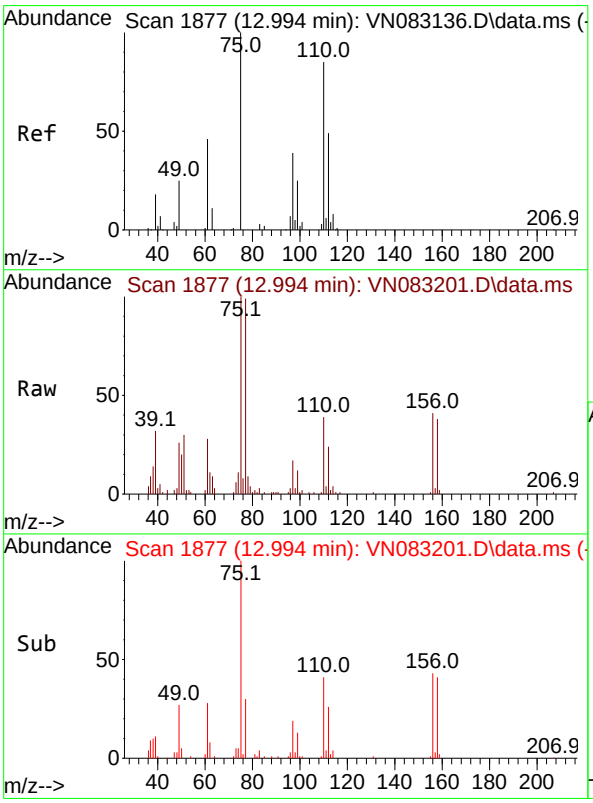
Ion	Ratio	Lower	Upper
83	100		
131	9.4	5.0	14.9
85	63.7	31.9	95.7

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

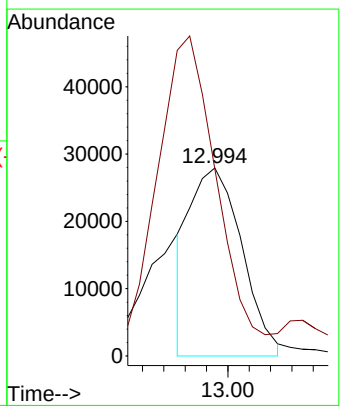


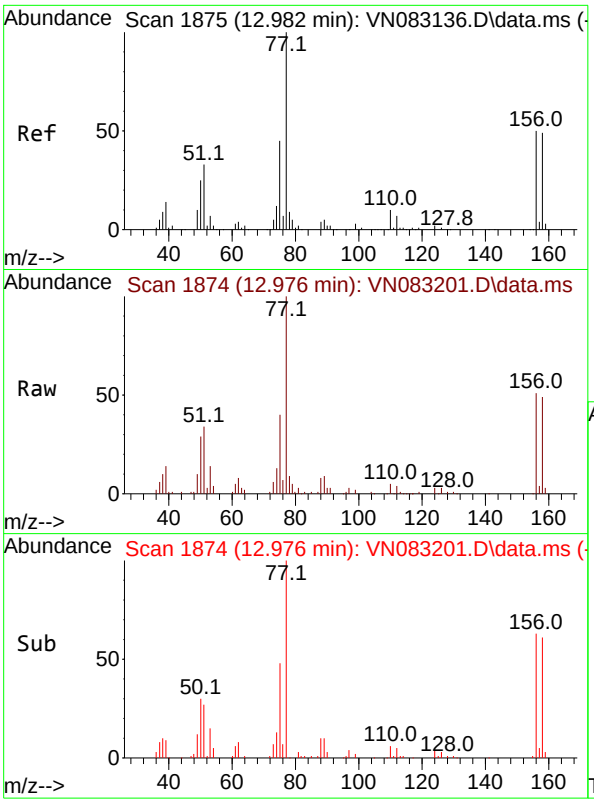


#76
1,2,3-Trichloropropane
Concen: 18.916 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 75 Resp: 47222

Ion	Ratio	Lower	Upper
75	100		
77	198.3	110.9	332.6

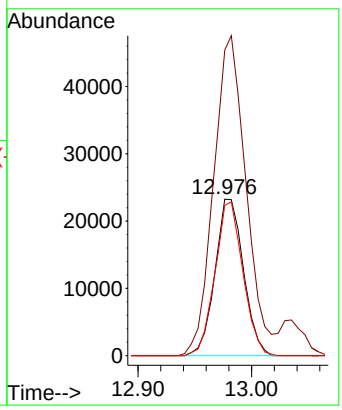




#77
Bromobenzene
Concen: 19.149 ug/l
RT: 12.976 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion:156 Resp: 4046

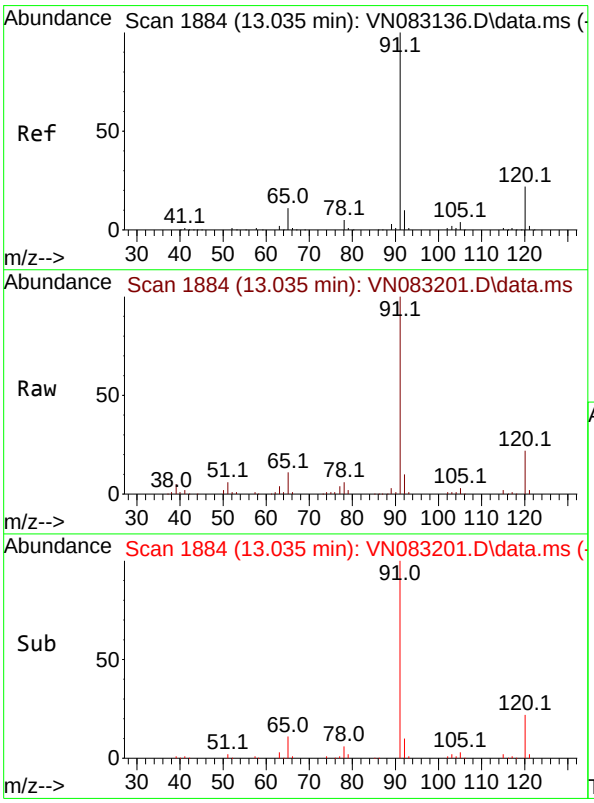
Ion	Ratio	Lower	Upper
156	100		
77	231.4	111.3	333.8
158	96.5	48.3	144.9



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

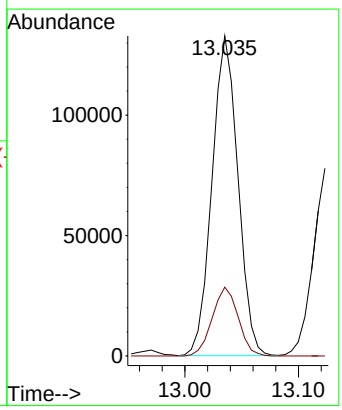
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

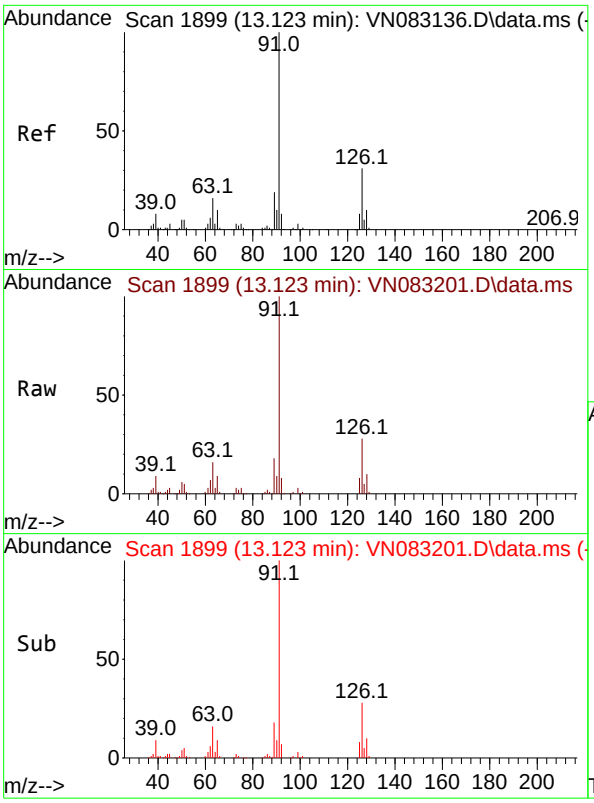


#78
n-propylbenzene
Concen: 19.209 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 91 Resp: 210429

Ion	Ratio	Lower	Upper
91	100		
120	21.5	10.9	32.9

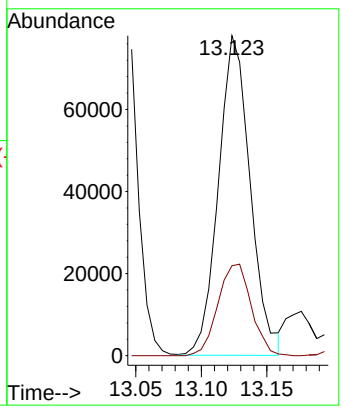




#79
2-Chlorotoluene
Concen: 18.918 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 91 Resp: 13138

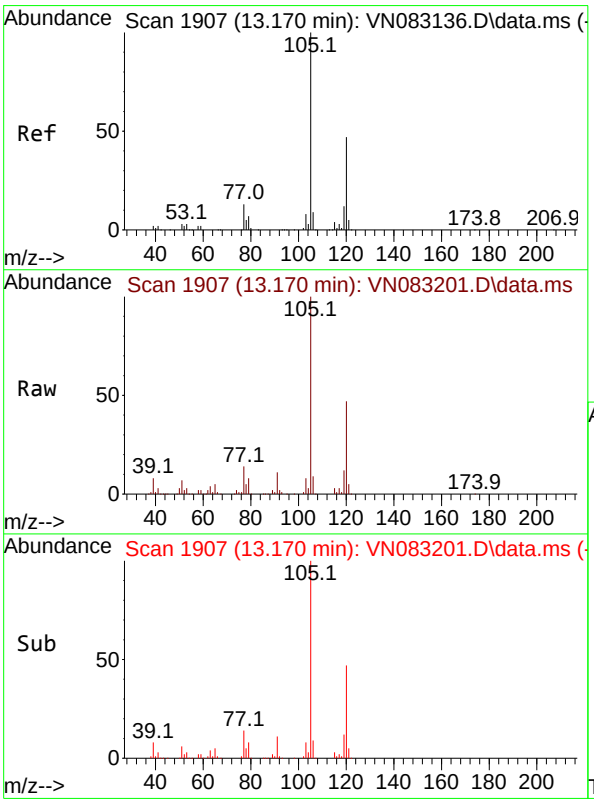
Ion	Ratio	Lower	Upper
91	100		
126	30.0	16.2	48.6



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

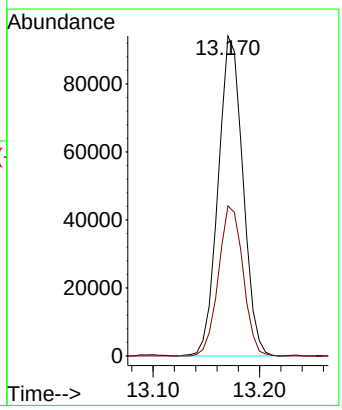
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

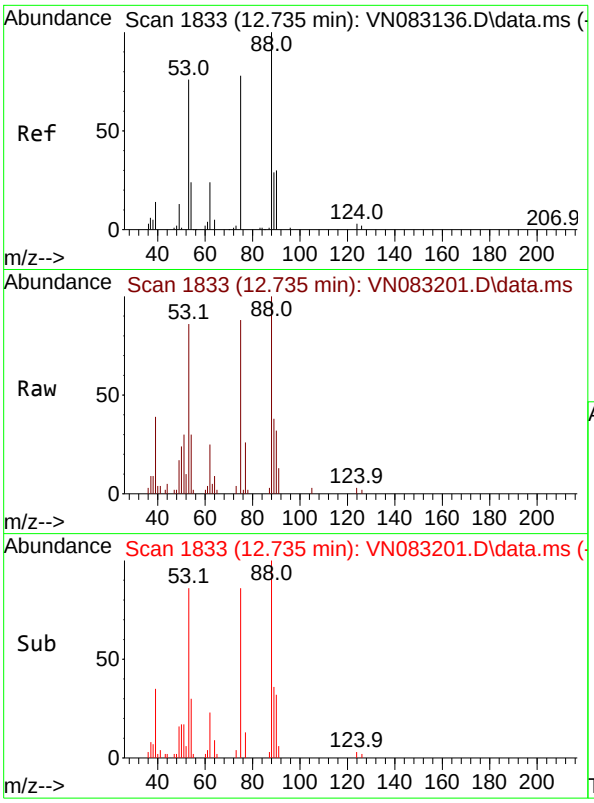


#80
1,3,5-Trimethylbenzene
Concen: 19.004 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion:105 Resp: 151364

Ion	Ratio	Lower	Upper
105	100		
120	46.6	24.3	72.8





#81
trans-1,4-Dichloro-2-butene
Concen: 16.976 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

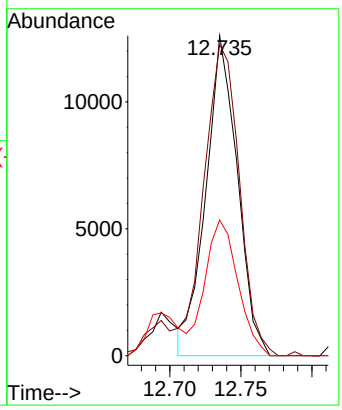
Tgt Ion: 75 Resp: 1948

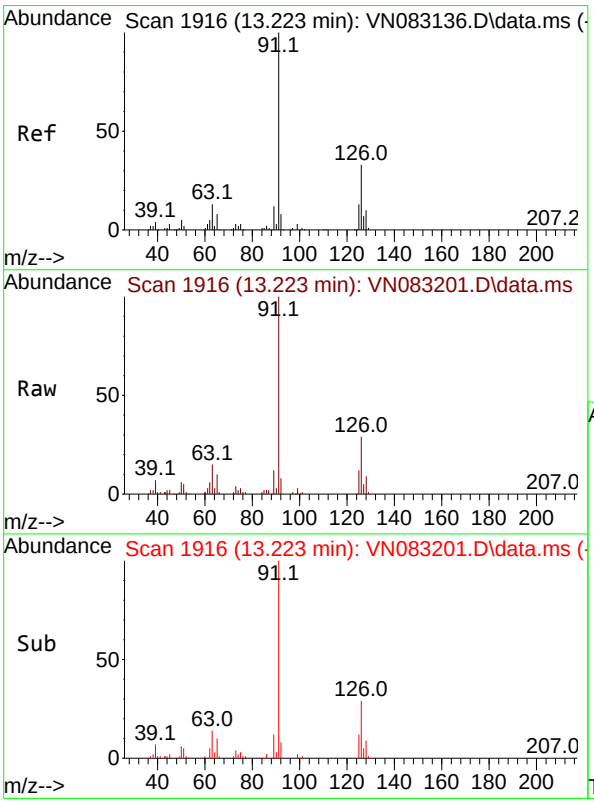
Ion	Ratio	Lower	Upper
75	100		
53	110.3	88.4	132.6
89	44.1	36.3	54.5

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

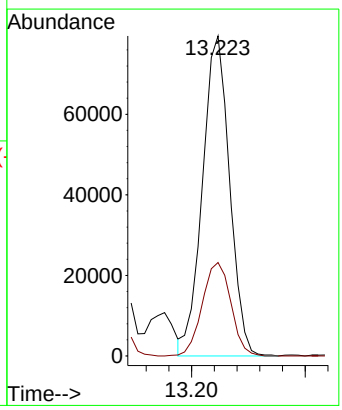


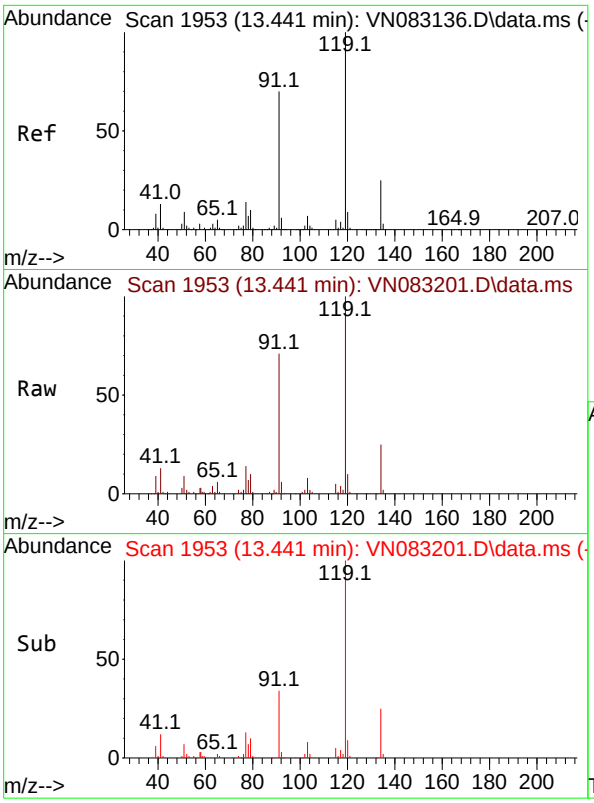


#82
4-Chlorotoluene
Concen: 18.932 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 91 Resp: 131889

Ion	Ratio	Lower	Upper
91	100		
126	30.7	16.2	48.6

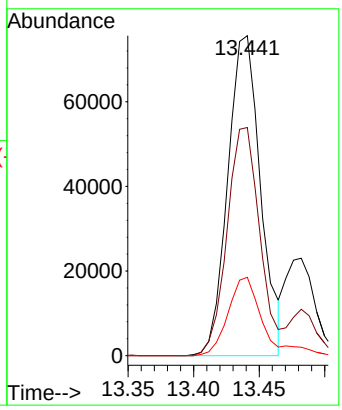




#83
tert-Butylbenzene
Concen: 18.701 ug/l
RT: 13.441 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion:119 Resp: 13191

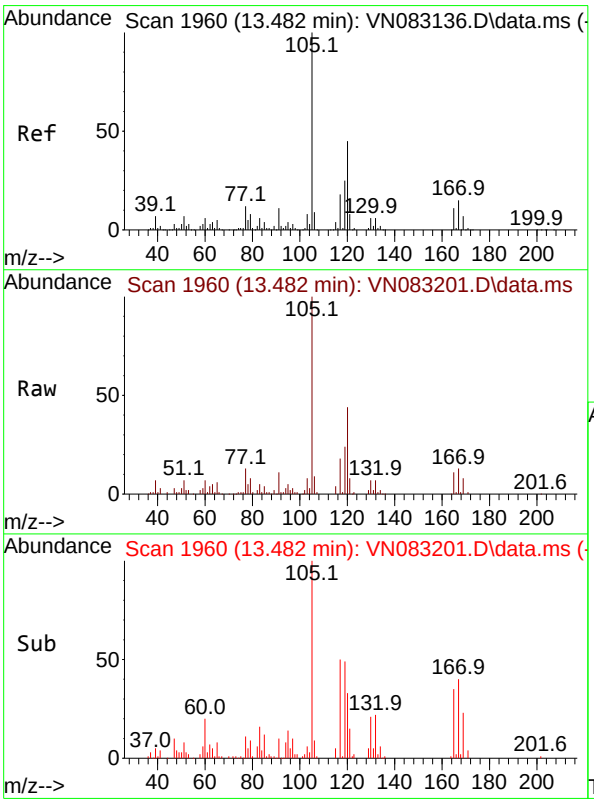
Ion	Ratio	Lower	Upper
119	100		
91	70.7	35.0	105.1
134	26.0	13.3	39.8



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

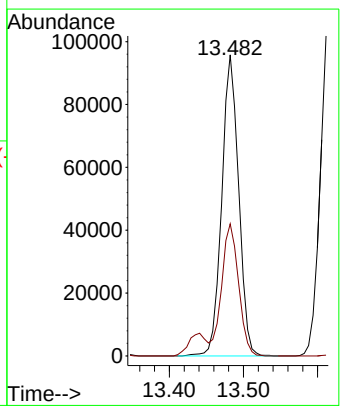
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

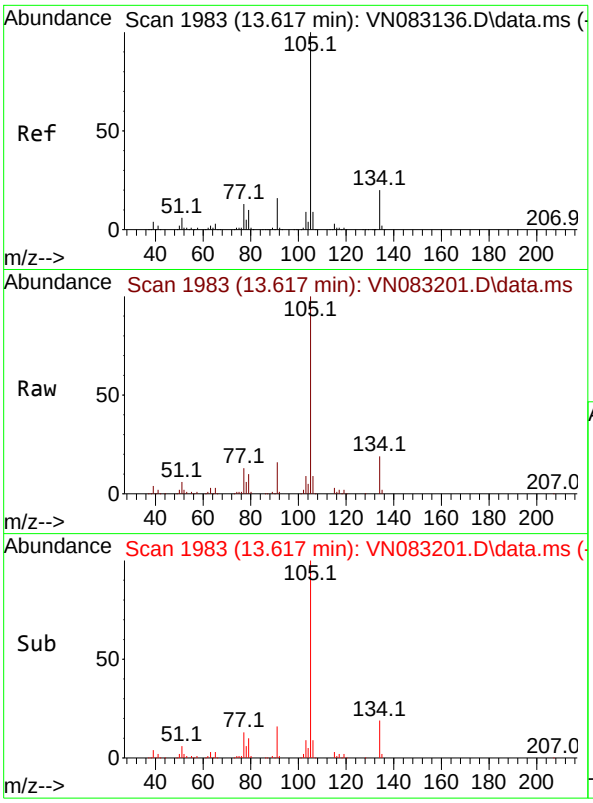


#84
1,2,4-Trimethylbenzene
Concen: 18.866 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion:105 Resp: 151431

Ion	Ratio	Lower	Upper
105	100		
120	44.2	21.9	65.8





#85
sec-Butylbenzene
Concen: 18.773 ug/l
RT: 13.617 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

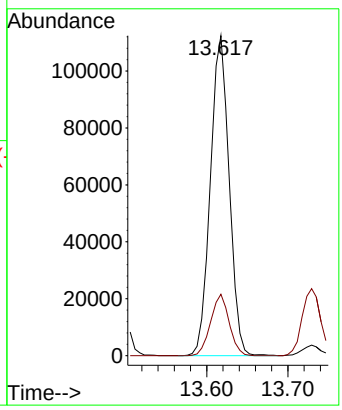
Tgt Ion:105 Resp: 18068

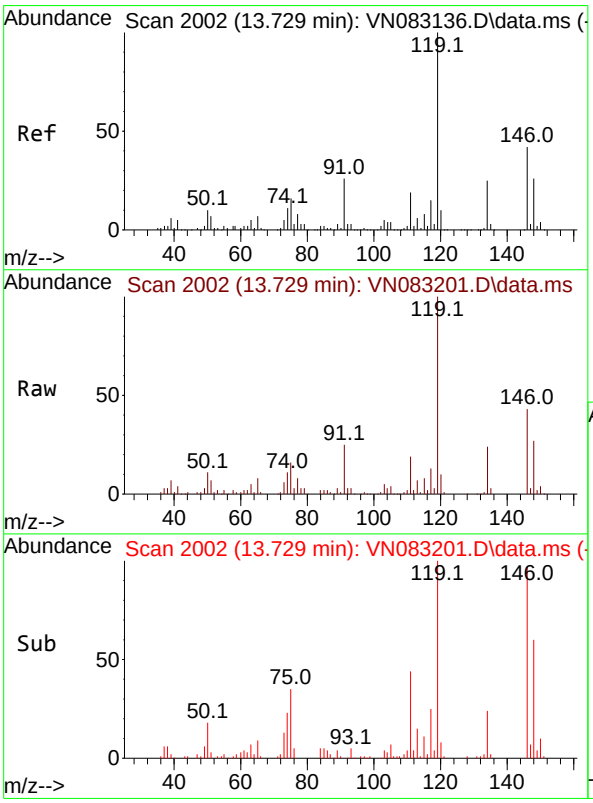
Ion	Ratio	Lower	Upper
105	100		
134	18.9	9.8	29.3

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

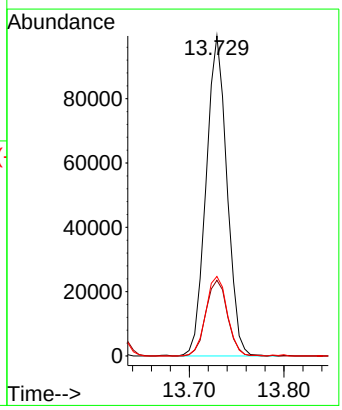


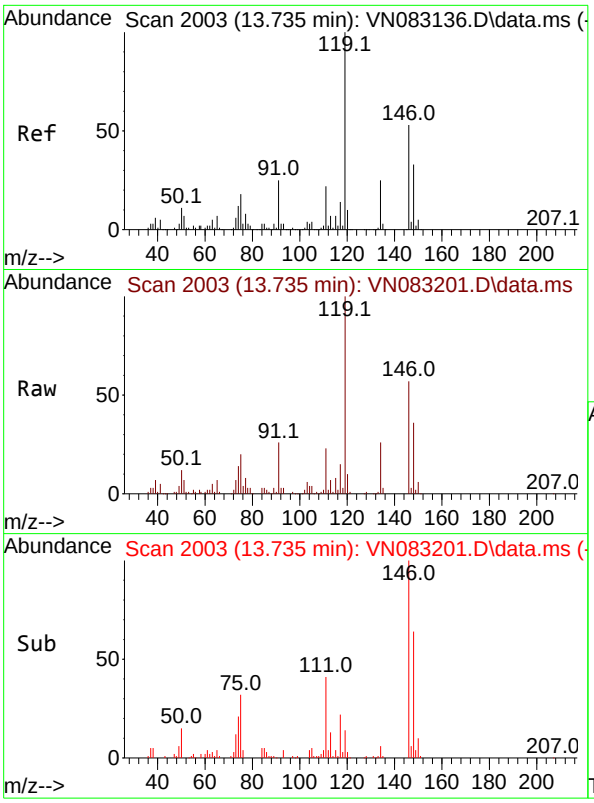


#86
p-Isopropyltoluene
Concen: 19.139 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion:119 Resp: 152096

Ion	Ratio	Lower	Upper
119	100		
134	24.6	13.0	39.0
91	25.7	12.3	36.9

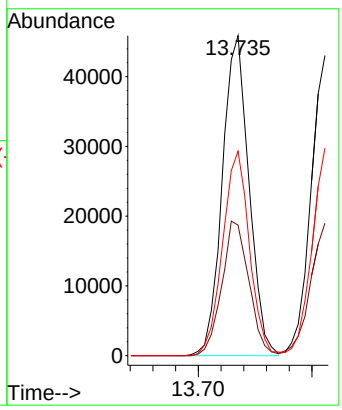




#87
1,3-Dichlorobenzene
Concen: 18.791 ug/l
RT: 13.735 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion:146 Resp: 7472

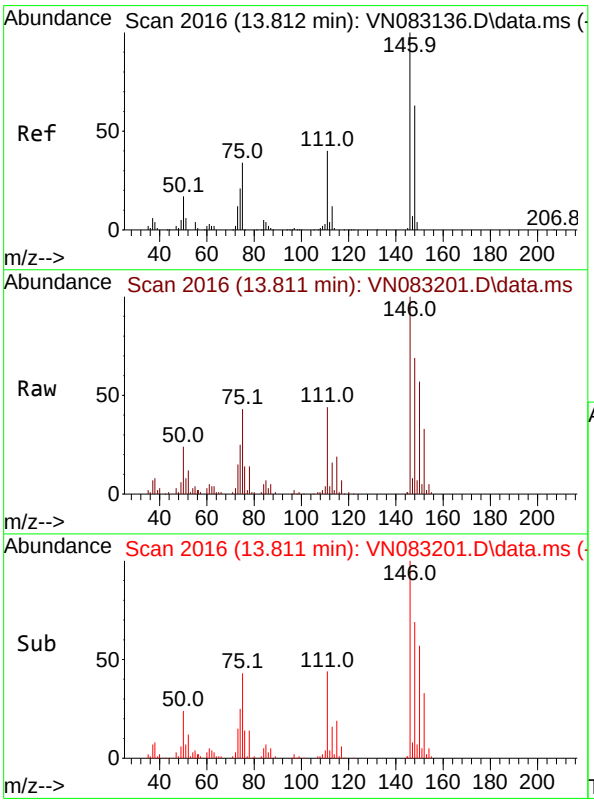
Ion	Ratio	Lower	Upper
146	100		
111	42.9	20.6	61.9
148	64.5	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

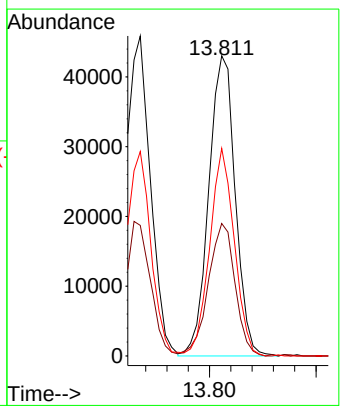
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

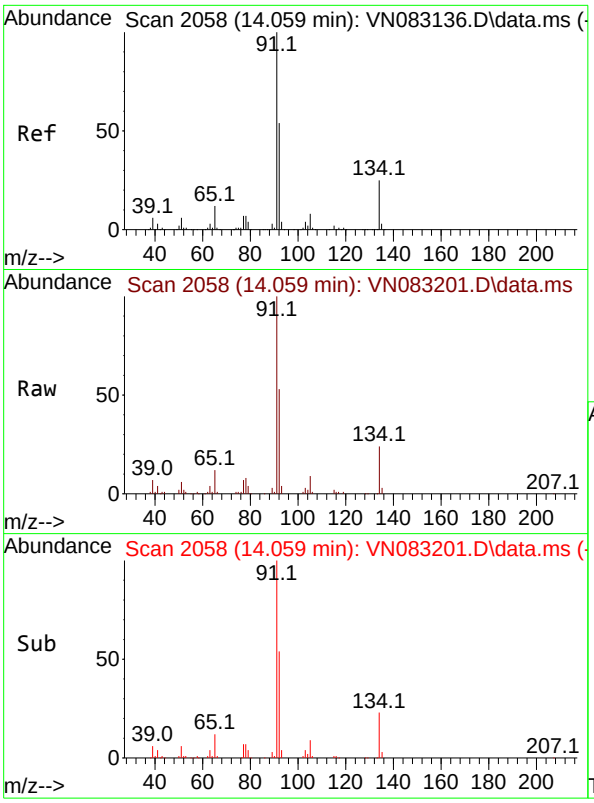


#88
1,4-Dichlorobenzene
Concen: 18.532 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion:146 Resp: 74297

Ion	Ratio	Lower	Upper
146	100		
111	44.6	20.1	60.3
148	64.1	32.2	96.6





#89
n-Butylbenzene
Concen: 18.813 ug/l
RT: 14.059 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

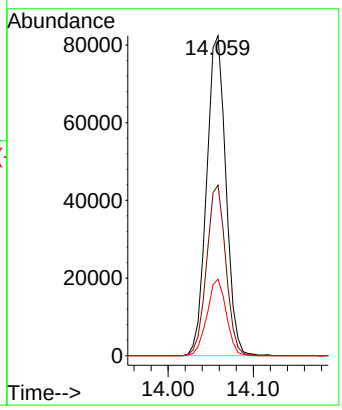
Tgt Ion: 91 Resp: 12954

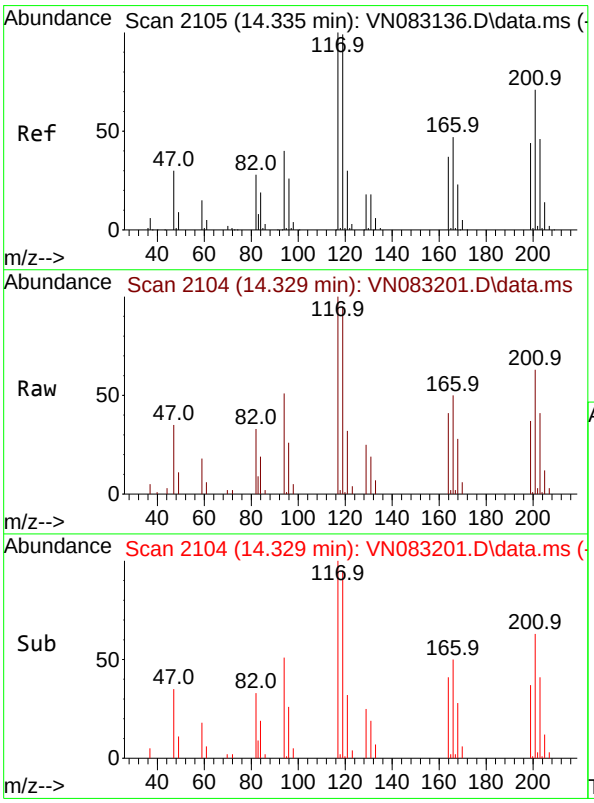
Ion	Ratio	Lower	Upper
91	100		
92	53.0	26.1	78.3
134	23.8	12.1	36.3

Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

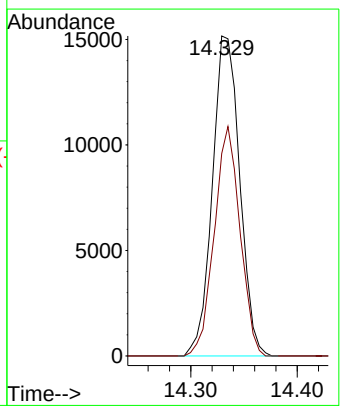


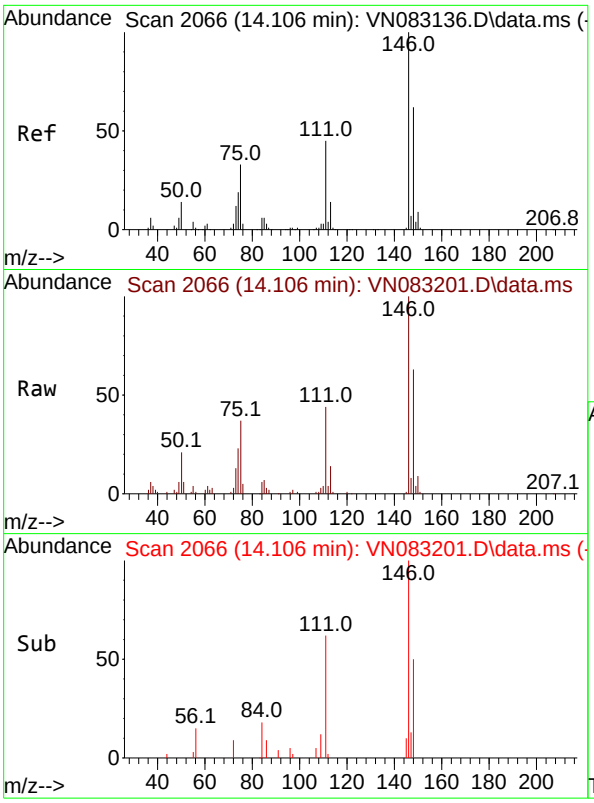


#90
Hexachloroethane
Concen: 17.605 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.006 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion:117 Resp: 27030

Ion	Ratio	Lower	Upper
117	100		
201	67.4	35.8	107.3

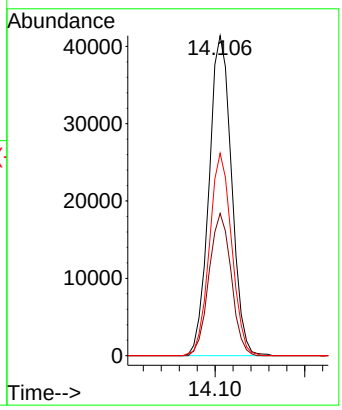




#91
1,2-Dichlorobenzene
Concen: 18.735 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion:146 Resp: 7209

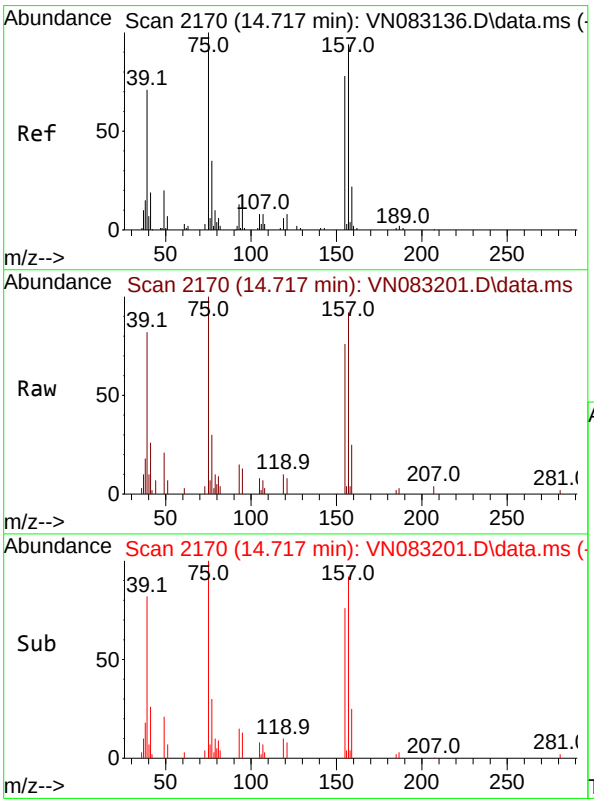
Ion	Ratio	Lower	Upper
146	100		
111	43.8	21.4	64.2
148	62.4	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

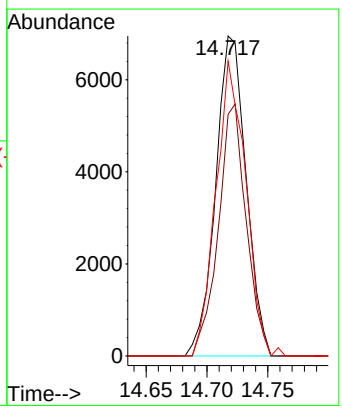
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

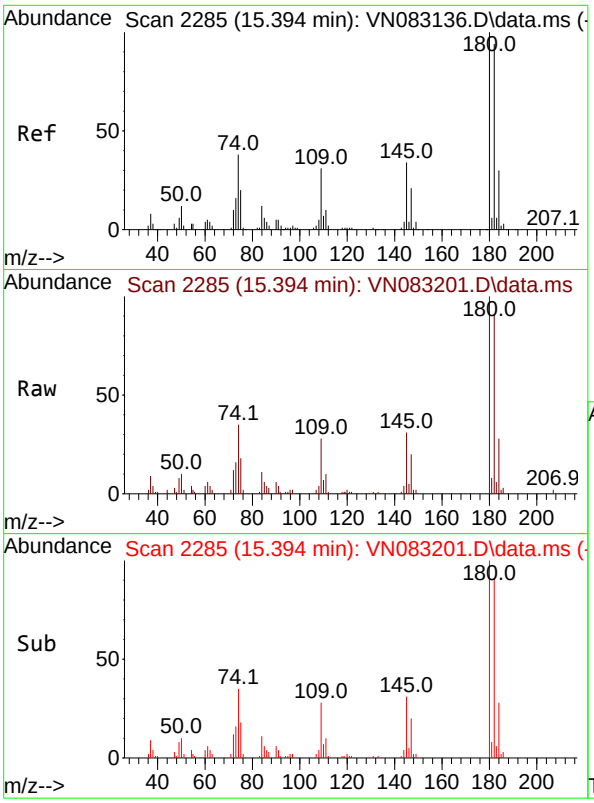


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.579 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion: 75 Resp: 12131

Ion	Ratio	Lower	Upper
75	100		
155	71.9	36.6	109.8
157	90.2	46.9	140.6

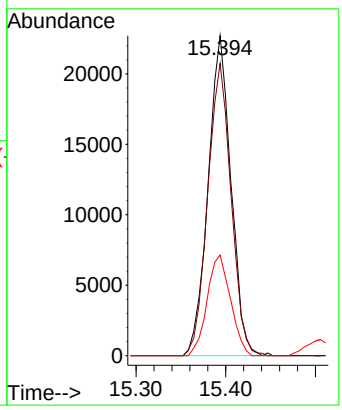




#93
1,2,4-Trichlorobenzene
Concen: 18.641 ug/l
RT: 15.394 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion:180 Resp: 4018

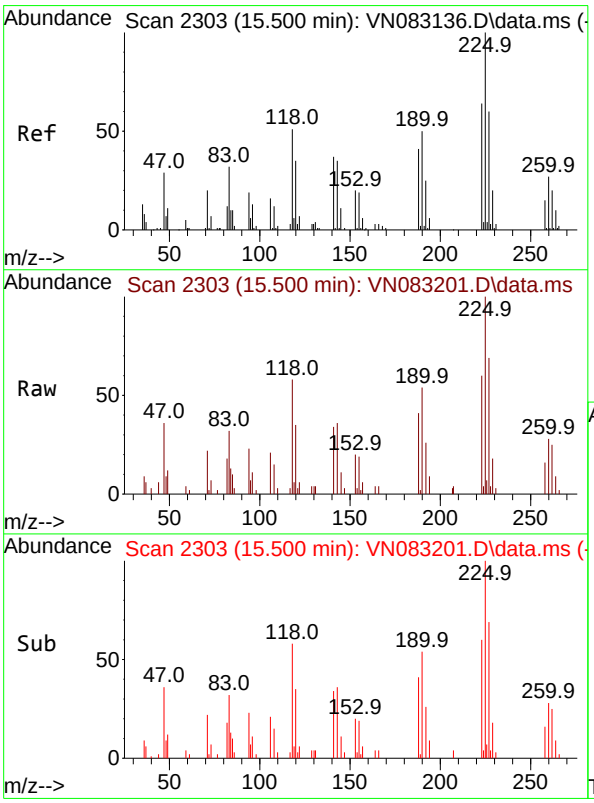
Ion	Ratio	Lower	Upper
180	100		
182	93.2	47.3	141.8
145	32.1	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

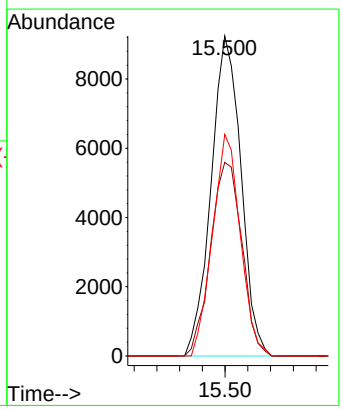
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024

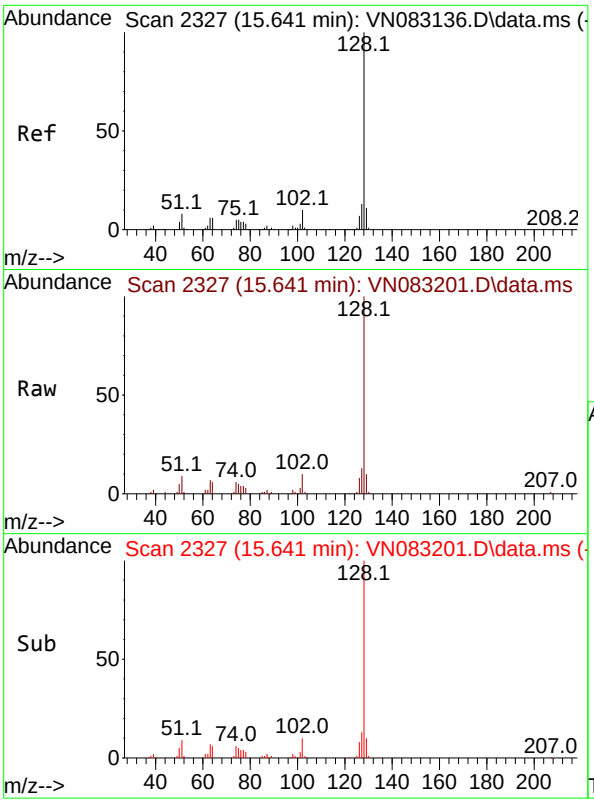


#94
Hexachlorobutadiene
Concen: 17.614 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion:225 Resp: 16888

Ion	Ratio	Lower	Upper
225	100		
223	63.3	31.9	95.7
227	64.4	32.5	97.5

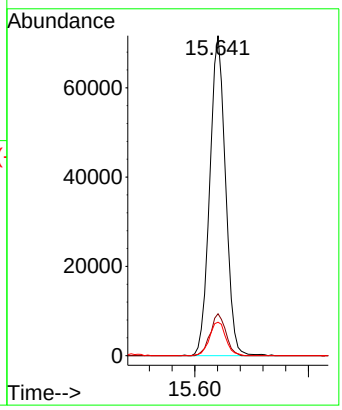




#95
Naphthalene
Concen: 18.024 ug/l
RT: 15.641 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion:128 Resp: 13764

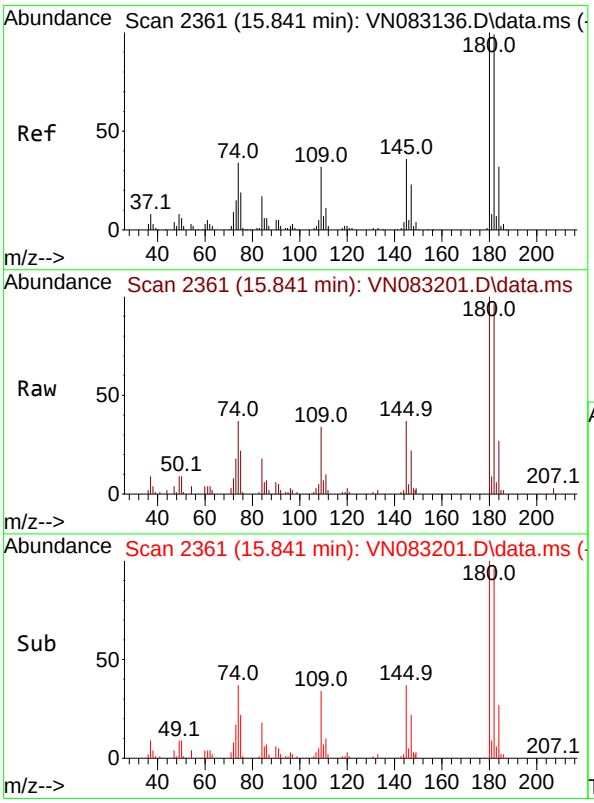
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.6	16.0
129	10.9	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VN0810WBSD01

Manual Integrations
APPROVED

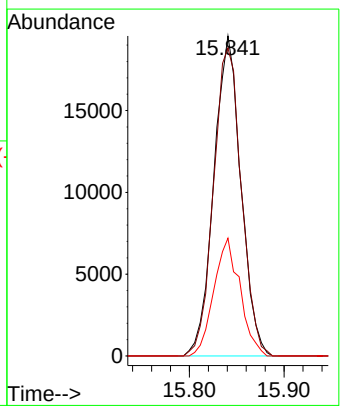
Reviewed By :John Carlone 08/12/2024
Supervised By :Mahesh Dadoda 08/12/2024



#96
1,2,3-Trichlorobenzene
Concen: 18.216 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. -0.000 min
Lab File: VN083201.D
Acq: 10 Aug 2024 12:32

Tgt Ion:180 Resp: 38859

Ion	Ratio	Lower	Upper
180	100		
182	98.9	48.9	146.8
145	35.5	16.8	50.4



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

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

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

Manual Integration Report

Sequence:	vn081024	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN083197.D	1,2,3-Trichloropropane	JOHN	8/12/2024 9:47:49 AM	MMDadoda	8/12/2024 4:40:51 PM	Peak Integrated by Software
VSTDCCC050	VN083197.D	Vinyl Acetate	JOHN	8/12/2024 9:47:49 AM	MMDadoda	8/12/2024 4:40:51 PM	Peak Integrated by Software
VN0810WBS01	VN083200.D	1,2,3-Trichloropropane	JOHN	8/12/2024 9:47:54 AM	MMDadoda	8/12/2024 4:40:53 PM	Peak Integrated by Software
VN0810WBS01	VN083200.D	Vinyl Acetate	JOHN	8/12/2024 9:47:54 AM	MMDadoda	8/12/2024 4:40:53 PM	Peak Integrated by Software
VN0810WBSD01	VN083201.D	1,2,3-Trichloropropane	JOHN	8/12/2024 9:47:58 AM	MMDadoda	8/12/2024 4:40:55 PM	Peak Integrated by Software
VSTDCCC050	VN083223.D	1,2,3-Trichloropropane	JOHN	8/12/2024 9:48:47 AM	MMDadoda	8/12/2024 4:41:02 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vx080724	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX042877.D	1,2,3-Trichloropropane	JOHN	8/7/2024 9:16:53 AM	MMDadoda	8/8/2024 1:37:42 AM	Peak Integrated by Software
VSTDICC001	VX042877.D	1,4-Dichlorobenzene	JOHN	8/7/2024 9:16:53 AM	MMDadoda	8/8/2024 1:37:42 AM	Peak Integrated by Software
VSTDICC001	VX042877.D	1,4-Dioxane	JOHN	8/7/2024 9:16:53 AM	MMDadoda	8/8/2024 1:37:42 AM	Peak Integrated by Software
VSTDICC005	VX042878.D	1,2,3-Trichloropropane	JOHN	8/7/2024 9:16:57 AM	MMDadoda	8/8/2024 1:37:43 AM	Peak Integrated by Software
VSTDICC005	VX042878.D	1,4-Dioxane	JOHN	8/7/2024 9:16:57 AM	MMDadoda	8/8/2024 1:37:43 AM	Peak Integrated by Software
VSTDICC020	VX042879.D	1,2,3-Trichloropropane	JOHN	8/7/2024 9:17:31 AM	MMDadoda	8/8/2024 1:37:45 AM	Peak Integrated by Software
VSTDICCC050	VX042880.D	1,2,3-Trichloropropane	JOHN	8/7/2024 9:17:35 AM	MMDadoda	8/8/2024 1:37:46 AM	Peak Integrated by Software
VSTDICC100	VX042881.D	1,2,3-Trichloropropane	JOHN	8/7/2024 9:18:01 AM	MMDadoda	8/8/2024 1:39:21 AM	Peak Integrated by Software
VSTDICC150	VX042882.D	1,2,3-Trichloropropane	JOHN	8/7/2024 9:17:39 AM	MMDadoda	8/8/2024 1:39:23 AM	Peak Integrated by Software
VSTDICV050	VX042884.D	1,2,3-Trichloropropane	JOHN	8/7/2024 9:17:43 AM	MMDadoda	8/8/2024 1:42:01 AM	Peak Integrated by Software
VSTDCCC050	VX042901.D	1,2,3-Trichloropropane	JOHN	8/7/2024 9:18:13 AM	MMDadoda	8/8/2024 1:37:40 AM	Peak Integrated by Software
VSTDCCC050	VX042903.D	1,2,3-Trichloropropane	MMDadoda	8/8/2024 3:07:42 AM	SAM	8/8/2024 4:07:24 AM	Peak Integrated by Software
VSTDCCC050	VX042927.D	1,2,3-Trichloropropane	MMDadoda	8/8/2024 3:07:49 AM	SAM	8/8/2024 4:07:34 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vx080724	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX042929.D	1,2,3-Trichloropropane	MMDadoda	8/9/2024 6:37:12 PM	SAM	8/9/2024 6:37:36 PM	Peak Integrated by Software
VSTDCCC050	VX042938.D	1,2,3-Trichloropropane	JOHN	8/8/2024 9:38:58 AM	MMDadoda	8/9/2024 6:18:44 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VX080824	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC020	VX042940.D	1,2,3-Trichloropropane	JOHN	8/8/2024 3:18:16 PM	MMDadoda	8/9/2024 6:23:56 PM	Peak Integrated by Software
VSTDCCC020	VX042961.D	1,2,3-Trichloropropane	JOHN	8/9/2024 9:26:21 AM	MMDadoda	8/9/2024 6:23:57 PM	Peak Integrated by Software
VSTDCCC020	VX042961.D	1,4-Dioxane	JOHN	8/9/2024 9:26:21 AM	MMDadoda	8/9/2024 6:23:57 PM	Peak Integrated by Software
VSTDCCC020	VX042961.D	tert-Butyl Alcohol	JOHN	8/9/2024 9:26:21 AM	MMDadoda	8/9/2024 6:23:57 PM	Peak Integrated by Software
VSTDCCC050	VX042963.D	1,2,3-Trichloropropane	JOHN	8/9/2024 9:26:25 AM	MMDadoda	8/9/2024 6:23:59 PM	Peak Integrated by Software
VX0808WBS02	VX042965.D	1,2,3-Trichloropropane	JOHN	8/9/2024 9:26:29 AM	MMDadoda	8/9/2024 6:24:00 PM	Peak Integrated by Software
VSTDCCC050	VX042984.D	1,2,3-Trichloropropane	JOHN	8/9/2024 3:06:16 PM	MMDadoda	8/9/2024 6:24:05 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VX080924	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX042986.D	1,2,3-Trichloropropane	JOHN	8/10/2024 9:26:10 AM	MMDadoda	8/12/2024 4:40:01 PM	Peak Integrated by Software
VX0809WBS01	VX042989.D	1,2,3-Trichloropropane	JOHN	8/10/2024 9:26:16 AM	MMDadoda	8/12/2024 4:40:00 PM	Peak Integrated by Software

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch 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	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

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN081024

Review By	John Carlone	Review On	8/12/2024 9:58:36 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/12/2024 4:40:34 PM		
SubDirectory	VN081024	HP Acquire Method		HP Processing Method	82N080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129626
Initial Calibration Stds	
CCC	VP129627,VP129628
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN083196.D	10 Aug 2024 09:22	JC\MD	Ok
2	VSTDCCC050	VN083197.D	10 Aug 2024 10:46	JC\MD	Ok,M
3	VN0810WBL01	VN083198.D	10 Aug 2024 11:10	JC\MD	Not Ok
4	VN0810WBL02	VN083199.D	10 Aug 2024 11:34	JC\MD	Ok
5	VN0810WBS01	VN083200.D	10 Aug 2024 11:58	JC\MD	Ok,M
6	VN0810WBSD01	VN083201.D	10 Aug 2024 12:32	JC\MD	Ok,M
7	PB162353TB	VN083202.D	10 Aug 2024 12:56	JC\MD	Ok
8	PB162508TB	VN083203.D	10 Aug 2024 13:20	JC\MD	Ok
9	PB162558TB	VN083204.D	10 Aug 2024 13:44	JC\MD	Ok
10	P3476-01	VN083205.D	10 Aug 2024 14:08	JC\MD	Ok
11	P3476-03	VN083206.D	10 Aug 2024 14:34	JC\MD	Not Ok
12	P3476-05	VN083207.D	10 Aug 2024 14:57	JC\MD	Ok
13	P3476-07	VN083208.D	10 Aug 2024 15:21	JC\MD	Ok
14	P3478-01	VN083209.D	10 Aug 2024 15:45	JC\MD	Ok
15	P3478-05	VN083210.D	10 Aug 2024 16:09	JC\MD	Ok
16	P3478-07	VN083211.D	10 Aug 2024 16:34	JC\MD	Ok
17	P3478-09	VN083212.D	10 Aug 2024 16:58	JC\MD	Ok
18	P3479-01	VN083213.D	10 Aug 2024 17:22	JC\MD	Ok
19	P3479-03	VN083214.D	10 Aug 2024 17:46	JC\MD	Ok
20	P3479-05	VN083215.D	10 Aug 2024 18:10	JC\MD	Ok
21	P3479-07	VN083216.D	10 Aug 2024 18:35	JC\MD	Ok

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN081024

Review By	John Carlone	Review On	8/12/2024 9:58:36 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/12/2024 4:40:34 PM		
SubDirectory	VN081024	HP Acquire Method		HP Processing Method	82N080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129626
Initial Calibration Stds	
CCC	VP129627,VP129628
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P3430-01	VN083217.D	10 Aug 2024 18:59	JC\MD	Ok
23	P3457-02	VN083218.D	10 Aug 2024 19:23	JC\MD	Ok
24	P3506-02	VN083219.D	10 Aug 2024 19:47	JC\MD	ReRun
25	P3530-01	VN083220.D	10 Aug 2024 20:11	JC\MD	ReRun
26	P3478-02MS	VN083221.D	10 Aug 2024 20:36	JC\MD	Ok,M
27	P3478-03MSD	VN083222.D	10 Aug 2024 21:00	JC\MD	Ok,M
28	VSTDCCC050	VN083223.D	10 Aug 2024 21:24	JC\MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX080724

Review By	John Carlone	Review On	8/7/2024 9:30:38 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/8/2024 4:07:47 AM		
SubDirectory	VX080724	HP Acquire Method		HP Processing Method	82X080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129502,VP129513,VP129523
Initial Calibration Stds	VP129495,VP129496,VP129497,VP129498,VP129499,VP129500
CCC	VP129494,VP129521,VP129522,VP129524,VP129525
Internal Standard/PEM	
ICV/I.BLK	VP129501
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX042876.D	06 Aug 2024 17:07	JC/MD	Ok
2	VSTDICC001	VX042877.D	06 Aug 2024 18:18	JC/MD	Ok,M
3	VSTDICC005	VX042878.D	06 Aug 2024 18:41	JC/MD	Ok,M
4	VSTDICC020	VX042879.D	06 Aug 2024 19:05	JC/MD	Ok,M
5	VSTDICCC050	VX042880.D	06 Aug 2024 19:28	JC/MD	Ok,M
6	VSTDICC100	VX042881.D	06 Aug 2024 19:51	JC/MD	Ok,M
7	VSTDICC150	VX042882.D	06 Aug 2024 20:15	JC/MD	Ok,M
8	IBLK	VX042883.D	06 Aug 2024 20:38	JC/MD	Ok
9	VSTDICV050	VX042884.D	06 Aug 2024 21:02	JC/MD	Ok,M
10	VX0807MBL01	VX042885.D	06 Aug 2024 22:59	JC/MD	Ok
11	VX0807WBL01	VX042886.D	06 Aug 2024 23:22	JC/MD	Ok
12	VX0807MBS01	VX042887.D	06 Aug 2024 23:46	JC/MD	Ok,M
13	VX0807MBSD01	VX042888.D	07 Aug 2024 00:09	JC/MD	Ok,M
14	VX0807WBS01	VX042889.D	07 Aug 2024 00:32	JC/MD	Ok,M
15	P3448-02	VX042890.D	07 Aug 2024 00:56	JC/MD	Ok
16	P3448-04	VX042891.D	07 Aug 2024 01:19	JC/MD	Ok
17	P3448-06	VX042892.D	07 Aug 2024 01:43	JC/MD	Ok
18	P3448-08	VX042893.D	07 Aug 2024 02:06	JC/MD	Ok
19	P3448-10	VX042894.D	07 Aug 2024 02:29	JC/MD	Ok
20	P3448-12	VX042895.D	07 Aug 2024 02:53	JC/MD	Ok
21	P3448-14	VX042896.D	07 Aug 2024 03:16	JC/MD	Ok

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX080724

Review By	John Carlone	Review On	8/7/2024 9:30:38 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/8/2024 4:07:47 AM		
SubDirectory	VX080724	HP Acquire Method		HP Processing Method	82X080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129502,VP129513,VP129523
Initial Calibration Stds	VP129495,VP129496,VP129497,VP129498,VP129499,VP129500
CCC	VP129494,VP129521,VP129522,VP129524,VP129525
Internal Standard/PEM	
ICV/I.BLK	VP129501
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P3374-01ME	VX042897.D	07 Aug 2024 03:39	JC/MD	Ok
23	P3462-01	VX042898.D	07 Aug 2024 04:02	JC/MD	Not Ok
24	P3462-05	VX042899.D	07 Aug 2024 04:26	JC/MD	Not Ok
25	P3462-09	VX042900.D	07 Aug 2024 04:49	JC/MD	Not Ok
26	VSTDCCC050	VX042901.D	07 Aug 2024 05:12	JC/MD	Not Ok
27	BFB	VX042902.D	07 Aug 2024 07:52	JC/MD	Ok
28	VSTDCCC050	VX042903.D	07 Aug 2024 08:24	JC/MD	Ok,M
29	VX0807MBL02	VX042904.D	07 Aug 2024 08:54	JC/MD	Ok
30	VX0807WBL02	VX042905.D	07 Aug 2024 10:58	JC/MD	Ok
31	VX0807WBS02	VX042906.D	07 Aug 2024 11:26	JC/MD	Ok,M
32	VX0807MBS02	VX042907.D	07 Aug 2024 11:55	JC/MD	Ok,M
33	P3462-01	VX042908.D	07 Aug 2024 12:18	JC/MD	ReRun
34	P3462-05	VX042909.D	07 Aug 2024 12:41	JC/MD	Ok
35	P3462-09	VX042910.D	07 Aug 2024 13:05	JC/MD	Ok
36	P3462-02	VX042911.D	07 Aug 2024 13:28	JC/MD	Ok
37	P3462-06	VX042912.D	07 Aug 2024 13:51	JC/MD	Ok
38	P3462-10	VX042913.D	07 Aug 2024 14:15	JC/MD	Ok
39	P3462-01	VX042914.D	07 Aug 2024 14:38	JC/MD	Ok
40	P3374-18ME	VX042915.D	07 Aug 2024 15:01	JC/MD	Ok
41	P3374-22ME	VX042916.D	07 Aug 2024 15:25	JC/MD	Ok
42	P3374-02ME	VX042917.D	07 Aug 2024 15:48	JC/MD	Ok
43	P3374-03ME	VX042918.D	07 Aug 2024 16:11	JC/MD	Ok
44	P3374-06ME	VX042919.D	07 Aug 2024 16:35	JC/MD	Ok

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX080724

Review By	John Carlone	Review On	8/7/2024 9:30:38 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/8/2024 4:07:47 AM		
SubDirectory	VX080724	HP Acquire Method		HP Processing Method	82X080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129502,VP129513,VP129523
Initial Calibration Stds	VP129495,VP129496,VP129497,VP129498,VP129499,VP129500
CCC	VP129494,VP129521,VP129522,VP129524,VP129525
Internal Standard/PEM	
ICV/I.BLK	VP129501
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	VX0807MBSD02	VX042920.D	07 Aug 2024 16:58	JC/MD	Ok,M
46	P3374-11ME	VX042921.D	07 Aug 2024 17:21	JC/MD	Ok
47	P3374-12ME	VX042922.D	07 Aug 2024 17:45	JC/MD	Ok
48	P3374-14ME	VX042923.D	07 Aug 2024 18:08	JC/MD	Ok
49	P3374-17ME	VX042924.D	07 Aug 2024 18:31	JC/MD	Ok
50	VX0807WBSD02	VX042925.D	07 Aug 2024 18:54	JC/MD	Ok,M
51	P3464-02	VX042926.D	07 Aug 2024 19:18	JC/MD	Ok
52	VSTDCCC050	VX042927.D	07 Aug 2024 19:41	JC/MD	Ok,M
53	BFB	VX042928.D	07 Aug 2024 21:36	JC/MD	Not Ok
54	VSTDCCC050	VX042929.D	07 Aug 2024 21:59	JC/MD	Ok,M
55	VX0807WBL03	VX042930.D	07 Aug 2024 23:09	JC/MD	Ok
56	VX0807WBS03	VX042931.D	07 Aug 2024 23:32	JC/MD	Not Ok
57	VX0807WBSD03	VX042932.D	07 Aug 2024 23:55	JC/MD	Not Ok
58	P3430-05DL	VX042933.D	08 Aug 2024 00:18	JC/MD	Not Ok
59	P3410-01DL	VX042934.D	08 Aug 2024 00:41	JC/MD	Not Ok
60	P3393-25	VX042935.D	08 Aug 2024 01:05	JC/MD	Not Ok
61	P3393-26	VX042936.D	08 Aug 2024 01:28	JC/MD	Not Ok
62	P3393-27	VX042937.D	08 Aug 2024 01:51	JC/MD	Not Ok
63	VSTDCCC050	VX042938.D	08 Aug 2024 02:14	JC/MD	Not Ok

M : Manual Integration

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX080824

Review By	John Carlone	Review On	8/9/2024 3:18:32 PM		
Supervise By	Mahesh Dadoda	Supervise On	8/9/2024 6:24:30 PM		
SubDirectory	VX080824	HP Acquire Method		HP Processing Method	624X080624W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129557,VP129583
Initial Calibration Stds	
CCC	VP129558,VP129559,VP129560,VP129584,VP129585
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX042939.D	08 Aug 2024 08:47	JC/MD	Ok
2	VSTDCCC020	VX042940.D	08 Aug 2024 09:20	JC/MD	Ok,M
3	VX0808WBS01	VX042941.D	08 Aug 2024 09:47	JC/MD	Ok,M
4	VX0808WBSD01	VX042942.D	08 Aug 2024 10:14	JC/MD	Ok,M
5	VX0808WBL01	VX042943.D	08 Aug 2024 10:38	JC/MD	Ok
6	P3390-09 2.5PPB	VX042944.D	08 Aug 2024 11:04	JC/MD	Ok,M
7	P3505-01	VX042945.D	08 Aug 2024 11:32	JC/MD	Ok
8	P3505-02	VX042946.D	08 Aug 2024 11:55	JC/MD	Ok
9	PB162548ZHE#01	VX042947.D	08 Aug 2024 12:18	JC/MD	Ok
10	PB162548ZHE#02	VX042948.D	08 Aug 2024 12:41	JC/MD	Ok
11	PB162548ZHE#03	VX042949.D	08 Aug 2024 13:05	JC/MD	Ok
12	PB162548ZHE#04	VX042950.D	08 Aug 2024 13:28	JC/MD	Ok
13	PB162548ZHE#05	VX042951.D	08 Aug 2024 13:51	JC/MD	Ok
14	PB162548ZHE#06	VX042952.D	08 Aug 2024 14:14	JC/MD	Ok
15	PB162548ZHE#07	VX042953.D	08 Aug 2024 14:37	JC/MD	Ok
16	PB162548ZHE#08	VX042954.D	08 Aug 2024 15:00	JC/MD	Ok
17	PB162548ZHE#09	VX042955.D	08 Aug 2024 15:24	JC/MD	Ok
18	PB162548ZHE#10	VX042956.D	08 Aug 2024 15:47	JC/MD	Ok
19	PB162548ZHE#11	VX042957.D	08 Aug 2024 16:10	JC/MD	Ok
20	PB162548ZHE#12	VX042958.D	08 Aug 2024 16:33	JC/MD	Ok
21	PB162548ZHE#13	VX042959.D	08 Aug 2024 16:56	JC/MD	Ok

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX080824

Review By	John Carlone	Review On	8/9/2024 3:18:32 PM		
Supervise By	Mahesh Dadoda	Supervise On	8/9/2024 6:24:30 PM		
SubDirectory	VX080824	HP Acquire Method		HP Processing Method	624X080624W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129557,VP129583
Initial Calibration Stds	
CCC	VP129558,VP129559,VP129560,VP129584,VP129585
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB162548ZHE#14	VX042960.D	08 Aug 2024 17:20	JC/MD	Ok
23	VSTDCCC020	VX042961.D	08 Aug 2024 17:43	JC/MD	Ok,M
24	BFB	VX042962.D	08 Aug 2024 23:48	JC/MD	Ok
25	VSTDCCC050	VX042963.D	09 Aug 2024 00:35	JC/MD	Ok,M
26	VX0808WBL02	VX042964.D	09 Aug 2024 01:48	JC/MD	Ok
27	VX0808WBS02	VX042965.D	09 Aug 2024 02:34	JC/MD	Ok,M
28	VX0808WBSD02	VX042966.D	09 Aug 2024 02:57	JC/MD	Ok,M
29	P3457-01	VX042967.D	09 Aug 2024 03:20	JC/MD	ReRun
30	P3457-03	VX042968.D	09 Aug 2024 03:43	JC/MD	Ok
31	P3458-07	VX042969.D	09 Aug 2024 04:06	JC/MD	ReRun
32	P3458-02	VX042970.D	09 Aug 2024 04:30	JC/MD	ReRun
33	P3458-01	VX042971.D	09 Aug 2024 04:53	JC/MD	ReRun
34	P3469-04	VX042972.D	09 Aug 2024 05:16	JC/MD	Ok
35	P3515-01	VX042973.D	09 Aug 2024 05:39	JC/MD	ReRun
36	P3515-03	VX042974.D	09 Aug 2024 06:03	JC/MD	ReRun
37	P3515-02	VX042975.D	09 Aug 2024 06:26	JC/MD	Ok
38	P3458-05	VX042976.D	09 Aug 2024 06:49	JC/MD	Ok
39	P3458-04	VX042977.D	09 Aug 2024 07:12	JC/MD	Ok
40	P3458-03	VX042978.D	09 Aug 2024 07:36	JC/MD	Dilution
41	P3469-01	VX042979.D	09 Aug 2024 07:59	JC/MD	Ok
42	P3469-02	VX042980.D	09 Aug 2024 08:22	JC/MD	Ok
43	P3469-03	VX042981.D	09 Aug 2024 08:44	JC/MD	Ok
44	P3457-02	VX042982.D	09 Aug 2024 09:06	JC/MD	ReRun

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX080824

Review By	John Carlone	Review On	8/9/2024 3:18:32 PM		
Supervise By	Mahesh Dadoda	Supervise On	8/9/2024 6:24:30 PM		
SubDirectory	VX080824	HP Acquire Method		HP Processing Method	624X080624W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129557,VP129583
Initial Calibration Stds	
CCC	VP129558,VP129559,VP129560,VP129584,VP129585
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	P3458-06	VX042983.D	09 Aug 2024 09:29	JC/MD	Ok
46	VSTDCCC050	VX042984.D	09 Aug 2024 09:52	JC/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX080924

Review By	John Carlone	Review On	8/10/2024 9:32:08 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/12/2024 4:40:06 PM		
SubDirectory	VX080924	HP Acquire Method		HP Processing Method	82X080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129602
Initial Calibration Stds	
CCC	VP129603,VP129604
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX042985.D	09 Aug 2024 10:32	JC/MD	Ok
2	VSTDCCC050	VX042986.D	09 Aug 2024 11:01	JC/MD	Ok,M
3	VX0809MBL01	VX042987.D	09 Aug 2024 11:28	JC/MD	Ok
4	VX0809WBL01	VX042988.D	09 Aug 2024 11:52	JC/MD	Ok
5	VX0809WBS01	VX042989.D	09 Aug 2024 12:15	JC/MD	Ok,M
6	VX0809WBSD01	VX042990.D	09 Aug 2024 12:42	JC/MD	Ok,M
7	P3514-01	VX042991.D	09 Aug 2024 13:06	JC/MD	Not Ok
8	P3514-02	VX042992.D	09 Aug 2024 13:29	JC/MD	Ok
9	P3514-01	VX042993.D	09 Aug 2024 13:53	JC/MD	Ok
10	P3458-03DL	VX042994.D	09 Aug 2024 14:16	JC/MD	Ok
11	P3458-02	VX042995.D	09 Aug 2024 14:40	JC/MD	Ok,M
12	P3458-07	VX042996.D	09 Aug 2024 15:03	JC/MD	Ok
13	P3458-01	VX042997.D	09 Aug 2024 15:27	JC/MD	Ok
14	P3515-03RE	VX042998.D	09 Aug 2024 15:50	JC/MD	Confirms
15	P3515-01RE	VX042999.D	09 Aug 2024 16:14	JC/MD	Confirms
16	P3430-02	VX043000.D	09 Aug 2024 17:01	JC/MD	Ok
17	P3410-01DL	VX043001.D	09 Aug 2024 17:24	JC/MD	Not Ok
18	P3457-01	VX043002.D	09 Aug 2024 17:48	JC/MD	Ok
19	P3430-05DL	VX043003.D	09 Aug 2024 18:11	JC/MD	Ok

M : Manual Integration

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch 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

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN081024

Review By	John Carlone	Review On	8/12/2024 9:58:36 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/12/2024 4:40:34 PM		
SubDirectory	VN081024	HP Acquire Method		HP Processing Method	82N080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129626
Initial Calibration Stds	
CCC	VP129627,VP129628
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN083196.D	10 Aug 2024 09:22		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN083197.D	10 Aug 2024 10:46	V13516	JC\MD	Ok,M
3	VN0810WBL01	VN0810WBL01	VN083198.D	10 Aug 2024 11:10	Not used	JC\MD	Not Ok
4	VN0810WBL02	VN0810WBL02	VN083199.D	10 Aug 2024 11:34		JC\MD	Ok
5	VN0810WBS01	VN0810WBS01	VN083200.D	10 Aug 2024 11:58		JC\MD	Ok,M
6	VN0810WBSD01	VN0810WBSD01	VN083201.D	10 Aug 2024 12:32		JC\MD	Ok,M
7	PB162353TB	PB162353TB	VN083202.D	10 Aug 2024 12:56		JC\MD	Ok
8	PB162508TB	PB162508TB	VN083203.D	10 Aug 2024 13:20		JC\MD	Ok
9	PB162558TB	PB162558TB	VN083204.D	10 Aug 2024 13:44		JC\MD	Ok
10	P3476-01	MUL04	VN083205.D	10 Aug 2024 14:08	vial A pH#6.0	JC\MD	Ok
11	P3476-03	MUL05	VN083206.D	10 Aug 2024 14:34	Spike Not Added	JC\MD	Not Ok
12	P3476-05	MUL06	VN083207.D	10 Aug 2024 14:57	vial A pH#6.0	JC\MD	Ok
13	P3476-07	MUL07	VN083208.D	10 Aug 2024 15:21	vial A pH#6.0	JC\MD	Ok
14	P3478-01	TS04	VN083209.D	10 Aug 2024 15:45	vial A pH#6.0	JC\MD	Ok
15	P3478-05	TS05	VN083210.D	10 Aug 2024 16:09	vial A pH#6.0	JC\MD	Ok
16	P3478-07	TS06	VN083211.D	10 Aug 2024 16:34	vial A pH#6.0	JC\MD	Ok
17	P3478-09	TS07	VN083212.D	10 Aug 2024 16:58	vial A pH#6.0	JC\MD	Ok
18	P3479-01	TS08	VN083213.D	10 Aug 2024 17:22	vial A pH#6.0	JC\MD	Ok

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN081024

Review By	John Carlone	Review On	8/12/2024 9:58:36 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/12/2024 4:40:34 PM		
SubDirectory	VN081024	HP Acquire Method		HP Processing Method	82N080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129626
Initial Calibration Stds	
CCC	VP129627,VP129628
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P3479-03	TS09	VN083214.D	10 Aug 2024 17:46	vial A pH#6.0	JC\MD	Ok
20	P3479-05	TS10	VN083215.D	10 Aug 2024 18:10	vial A pH#6.0	JC\MD	Ok
21	P3479-07	TS11	VN083216.D	10 Aug 2024 18:35	vial A pH#6.0	JC\MD	Ok
22	P3430-01	927-K1-WPO-0-0.25-07	VN083217.D	10 Aug 2024 18:59	vial B pH<2 Surrogate fail	JC\MD	Ok
23	P3457-02	932-K1-WS-080224	VN083218.D	10 Aug 2024 19:23	vial B pH<2	JC\MD	Ok
24	P3506-02	RT4534	VN083219.D	10 Aug 2024 19:47	vial A pH#5.0 Surrogate fail	JC\MD	ReRun
25	P3530-01	WC-S-04-202408	VN083220.D	10 Aug 2024 20:11	vial A pH#5.0 Surrogate fail	JC\MD	ReRun
26	P3478-02MS	TS04MS	VN083221.D	10 Aug 2024 20:36	vial A pH#6.0	JC\MD	Ok,M
27	P3478-03MSD	TS04MSD	VN083222.D	10 Aug 2024 21:00	vial A pH#6.0	JC\MD	Ok,M
28	VSTDCCC050	VSTDCCC050EC	VN083223.D	10 Aug 2024 21:24		JC\MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX080724

Review By	John Carlone	Review On	8/7/2024 9:30:38 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/8/2024 4:07:47 AM		
SubDirectory	VX080724	HP Acquire Method		HP Processing Method	82X080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129502,VP129513,VP129523
Initial Calibration Stds	VP129495,VP129496,VP129497,VP129498,VP129499,VP129500
CCC	VP129494,VP129521,VP129522,VP129524,VP129525
Internal Standard/PEM	
ICV/I.BLK	VP129501
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX042876.D	06 Aug 2024 17:07		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX042877.D	06 Aug 2024 18:18	Good for DOD	JC/MD	Ok,M
3	VSTDICC005	VSTDICC005	VX042878.D	06 Aug 2024 18:41	QR- 20, 71	JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX042879.D	06 Aug 2024 19:05		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX042880.D	06 Aug 2024 19:28		JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX042881.D	06 Aug 2024 19:51		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX042882.D	06 Aug 2024 20:15		JC/MD	Ok,M
8	IBLK	IBLK	VX042883.D	06 Aug 2024 20:38		JC/MD	Ok
9	VSTDICV050	ICVVX080724	VX042884.D	06 Aug 2024 21:02		JC/MD	Ok,M
10	VX0807MBL01	VX0807MBL01	VX042885.D	06 Aug 2024 22:59		JC/MD	Ok
11	VX0807WBL01	VX0807WBL01	VX042886.D	06 Aug 2024 23:22		JC/MD	Ok
12	VX0807MBS01	VX0807MBS01	VX042887.D	06 Aug 2024 23:46		JC/MD	Ok,M
13	VX0807MBSD01	VX0807MBSD01	VX042888.D	07 Aug 2024 00:09		JC/MD	Ok,M
14	VX0807WBS01	VX0807WBS01	VX042889.D	07 Aug 2024 00:32		JC/MD	Ok,M
15	P3448-02	TP1	VX042890.D	07 Aug 2024 00:56	vial B pH#5.0	JC/MD	Ok
16	P3448-04	TP2	VX042891.D	07 Aug 2024 01:19	vial B pH#5.0	JC/MD	Ok
17	P3448-06	TP3	VX042892.D	07 Aug 2024 01:43	vial B pH#5.0	JC/MD	Ok
18	P3448-08	TP4	VX042893.D	07 Aug 2024 02:06	vial B pH#5.0	JC/MD	Ok

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX080724

Review By	John Carlone	Review On	8/7/2024 9:30:38 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/8/2024 4:07:47 AM		
SubDirectory	VX080724	HP Acquire Method		HP Processing Method	82X080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129502,VP129513,VP129523
Initial Calibration Stds	VP129495,VP129496,VP129497,VP129498,VP129499,VP129500
CCC	VP129494,VP129521,VP129522,VP129524,VP129525
Internal Standard/PEM	
ICV/I.BLK	VP129501
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P3448-10	TP5	VX042894.D	07 Aug 2024 02:29	vial B pH#5.0	JC/MD	Ok
20	P3448-12	TP6	VX042895.D	07 Aug 2024 02:53	vial B pH#5.0	JC/MD	Ok
21	P3448-14	TP7	VX042896.D	07 Aug 2024 03:16	vial B pH#5.0	JC/MD	Ok
22	P3374-01ME	S-864-K2-SO-12-12.5-(	VX042897.D	07 Aug 2024 03:39		JC/MD	Ok
23	P3462-01	JC-1	VX042898.D	07 Aug 2024 04:02	Need straight ME	JC/MD	Not Ok
24	P3462-05	JC-2	VX042899.D	07 Aug 2024 04:26	Need straight ME	JC/MD	Not Ok
25	P3462-09	JC-3	VX042900.D	07 Aug 2024 04:49	Need straight ME	JC/MD	Not Ok
26	VSTDCCC050	VSTDCCC050EC	VX042901.D	07 Aug 2024 05:12		JC/MD	Not Ok
27	BFB	BFB	VX042902.D	07 Aug 2024 07:52		JC/MD	Ok
28	VSTDCCC050	VSTDCCC050	VX042903.D	07 Aug 2024 08:24		JC/MD	Ok,M
29	VX0807MBL02	VX0807MBL02	VX042904.D	07 Aug 2024 08:54		JC/MD	Ok
30	VX0807WBL02	VX0807WBL02	VX042905.D	07 Aug 2024 10:58		JC/MD	Ok
31	VX0807WBS02	VX0807WBS02	VX042906.D	07 Aug 2024 11:26		JC/MD	Ok,M
32	VX0807MBS02	VX0807MBS02	VX042907.D	07 Aug 2024 11:55		JC/MD	Ok,M
33	P3462-01	JC-1	VX042908.D	07 Aug 2024 12:18	Internal Standard Fail	JC/MD	ReRun
34	P3462-05	JC-2	VX042909.D	07 Aug 2024 12:41		JC/MD	Ok
35	P3462-09	JC-3	VX042910.D	07 Aug 2024 13:05		JC/MD	Ok
36	P3462-02	JC-1	VX042911.D	07 Aug 2024 13:28	vial A pH#5.0	JC/MD	Ok
37	P3462-06	JC-2	VX042912.D	07 Aug 2024 13:51	vial A pH#5.0	JC/MD	Ok

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX080724

Review By	John Carlone	Review On	8/7/2024 9:30:38 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/8/2024 4:07:47 AM		
SubDirectory	VX080724	HP Acquire Method		HP Processing Method	82X080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129502,VP129513,VP129523
Initial Calibration Stds	VP129495,VP129496,VP129497,VP129498,VP129499,VP129500
CCC	VP129494,VP129521,VP129522,VP129524,VP129525
Internal Standard/PEM	
ICV/I.BLK	VP129501
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	P3462-10	JC-3	VX042913.D	07 Aug 2024 14:15	vial A pH#5.0	JC/MD	Ok
39	P3462-01	JC-1	VX042914.D	07 Aug 2024 14:38		JC/MD	Ok
40	P3374-18ME	S-863-K2-SO-12.75-13	VX042915.D	07 Aug 2024 15:01		JC/MD	Ok
41	P3374-22ME	S-863-K2-SO-12-12.5-(	VX042916.D	07 Aug 2024 15:25		JC/MD	Ok
42	P3374-02ME	S-864-K2-SO-12.75-13	VX042917.D	07 Aug 2024 15:48		JC/MD	Ok
43	P3374-03ME	S-864-K2-SO-13.5-14-(	VX042918.D	07 Aug 2024 16:11		JC/MD	Ok
44	P3374-06ME	S-861-K2-SO-13.5-14-(	VX042919.D	07 Aug 2024 16:35		JC/MD	Ok
45	VX0807MBSD02	VX0807MBSD02	VX042920.D	07 Aug 2024 16:58		JC/MD	Ok,M
46	P3374-11ME	S-862-K2-SO-13.5-14-(	VX042921.D	07 Aug 2024 17:21		JC/MD	Ok
47	P3374-12ME	S-861-K2-SO-13.5-14-(	VX042922.D	07 Aug 2024 17:45		JC/MD	Ok
48	P3374-14ME	S-847-G1-SO-10-10.5-(	VX042923.D	07 Aug 2024 18:08		JC/MD	Ok
49	P3374-17ME	S-863-K2-SO-13.5-14-(	VX042924.D	07 Aug 2024 18:31		JC/MD	Ok
50	VX0807WBSD02	VX0807WBSD02	VX042925.D	07 Aug 2024 18:54		JC/MD	Ok,M
51	P3464-02	TOPSOIL	VX042926.D	07 Aug 2024 19:18		JC/MD	Ok
52	VSTDCCC050	VSTDCCC050EC	VX042927.D	07 Aug 2024 19:41		JC/MD	Ok,M
53	BFB	BFB	VX042928.D	07 Aug 2024 21:36	Tune failed	JC/MD	Not Ok
54	VSTDCCC050	VSTDCCC050	VX042929.D	07 Aug 2024 21:59		JC/MD	Ok,M
55	VX0807WBL03	VX0807WBL03	VX042930.D	07 Aug 2024 23:09		JC/MD	Ok
56	VX0807WBS03	VX0807WBS03	VX042931.D	07 Aug 2024 23:32		JC/MD	Not Ok

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX080724

Review By	John Carlone	Review On	8/7/2024 9:30:38 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/8/2024 4:07:47 AM		
SubDirectory	VX080724	HP Acquire Method		HP Processing Method	82X080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129502,VP129513,VP129523
Initial Calibration Stds	VP129495,VP129496,VP129497,VP129498,VP129499,VP129500
CCC	VP129494,VP129521,VP129522,VP129524,VP129525
Internal Standard/PEM	
ICV/I.BLK	VP129501
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

57	VX0807WBSD03	VX0807WBSD03	VX042932.D	07 Aug 2024 23:55		JC/MD	Not Ok
58	P3430-05DL	925-K1-WPO-0-0.25-07	VX042933.D	08 Aug 2024 00:18	Tune failed	JC/MD	Not Ok
59	P3410-01DL	GW-S-864-9-14-073024	VX042934.D	08 Aug 2024 00:41	Tune failed	JC/MD	Not Ok
60	P3393-25	EB-03-072624	VX042935.D	08 Aug 2024 01:05	EB, Tune failed	JC/MD	Not Ok
61	P3393-26	EB-02-072624	VX042936.D	08 Aug 2024 01:28	EB, Tune failed	JC/MD	Not Ok
62	P3393-27	EB-01-072624	VX042937.D	08 Aug 2024 01:51	EB, Tune failed	JC/MD	Not Ok
63	VSTDCCC050	VSTDCCC050EC	VX042938.D	08 Aug 2024 02:14		JC/MD	Not Ok

M : Manual Integration

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX080824

Review By	John Carlone	Review On	8/9/2024 3:18:32 PM		
Supervise By	Mahesh Dadoda	Supervise On	8/9/2024 6:24:30 PM		
SubDirectory	VX080824	HP Acquire Method		HP Processing Method	624X080624W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129557,VP129583
Initial Calibration Stds	
CCC	VP129558,VP129559,VP129560,VP129584,VP129585
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX042939.D	08 Aug 2024 08:47		JC/MD	Ok
2	VSTDCCC020	VSTDCCC020	VX042940.D	08 Aug 2024 09:20	V13516	JC/MD	Ok,M
3	VX0808WBS01	VX0808WBS01	VX042941.D	08 Aug 2024 09:47		JC/MD	Ok,M
4	VX0808WBSD01	VX0808WBSD01	VX042942.D	08 Aug 2024 10:14		JC/MD	Ok,M
5	VX0808WBL01	VX0808WBL01	VX042943.D	08 Aug 2024 10:38		JC/MD	Ok
6	P3390-09 2.5PPB	MDL-WATER-03-QT3-2	VX042944.D	08 Aug 2024 11:04		JC/MD	Ok,M
7	P3505-01	001-WILLETS-PT-BLVD	VX042945.D	08 Aug 2024 11:32	vial A pH<2	JC/MD	Ok
8	P3505-02	002-35TH-AVE(JUNE)	VX042946.D	08 Aug 2024 11:55	vial A pH<2	JC/MD	Ok
9	PB162548ZHE#01	PB162548ZHE#01	VX042947.D	08 Aug 2024 12:18	8260	JC/MD	Ok
10	PB162548ZHE#02	PB162548ZHE#02	VX042948.D	08 Aug 2024 12:41	8260	JC/MD	Ok
11	PB162548ZHE#03	PB162548ZHE#03	VX042949.D	08 Aug 2024 13:05	624	JC/MD	Ok
12	PB162548ZHE#04	PB162548ZHE#04	VX042950.D	08 Aug 2024 13:28	624	JC/MD	Ok
13	PB162548ZHE#05	PB162548ZHE#05	VX042951.D	08 Aug 2024 13:51	624	JC/MD	Ok
14	PB162548ZHE#06	PB162548ZHE#06	VX042952.D	08 Aug 2024 14:14	624	JC/MD	Ok
15	PB162548ZHE#07	PB162548ZHE#07	VX042953.D	08 Aug 2024 14:37	624	JC/MD	Ok
16	PB162548ZHE#08	PB162548ZHE#08	VX042954.D	08 Aug 2024 15:00	624	JC/MD	Ok
17	PB162548ZHE#09	PB162548ZHE#09	VX042955.D	08 Aug 2024 15:24	624	JC/MD	Ok
18	PB162548ZHE#10	PB162548ZHE#10	VX042956.D	08 Aug 2024 15:47	624	JC/MD	Ok

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX080824

Review By	John Carlone	Review On	8/9/2024 3:18:32 PM		
Supervise By	Mahesh Dadoda	Supervise On	8/9/2024 6:24:30 PM		
SubDirectory	VX080824	HP Acquire Method		HP Processing Method	624X080624W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129557,VP129583
Initial Calibration Stds	
CCC	VP129558,VP129559,VP129560,VP129584,VP129585
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PB162548ZHE#11	PB162548ZHE#11	VX042957.D	08 Aug 2024 16:10	624	JC/MD	Ok
20	PB162548ZHE#12	PB162548ZHE#12	VX042958.D	08 Aug 2024 16:33	624	JC/MD	Ok
21	PB162548ZHE#13	PB162548ZHE#13	VX042959.D	08 Aug 2024 16:56	624	JC/MD	Ok
22	PB162548ZHE#14	PB162548ZHE#14	VX042960.D	08 Aug 2024 17:20	624	JC/MD	Ok
23	VSTDCCC020	VSTDCCC020EC	VX042961.D	08 Aug 2024 17:43		JC/MD	Ok,M
24	BFB	BFB	VX042962.D	08 Aug 2024 23:48		JC/MD	Ok
25	VSTDCCC050	VSTDCCC050	VX042963.D	09 Aug 2024 00:35		JC/MD	Ok,M
26	VX0808WBL02	VX0808WBL02	VX042964.D	09 Aug 2024 01:48		JC/MD	Ok
27	VX0808WBS02	VX0808WBS02	VX042965.D	09 Aug 2024 02:34		JC/MD	Ok,M
28	VX0808WBSD02	VX0808WBSD02	VX042966.D	09 Aug 2024 02:57		JC/MD	Ok,M
29	P3457-01	924-K1-WS-080224	VX042967.D	09 Aug 2024 03:20	vial A pH<2 Surrogate Fail	JC/MD	ReRun
30	P3457-03	TB-01-080224	VX042968.D	09 Aug 2024 03:43	vial A pH<2 TB, Surrogate Fail	JC/MD	Ok
31	P3458-07	TB-02	VX042969.D	09 Aug 2024 04:06	vial A pH<2 TB, Surrogate Fail	JC/MD	ReRun
32	P3458-02	EB-70-150	VX042970.D	09 Aug 2024 04:30	vial A pH<2 EB, hit of Com#16, Surrogate Fail	JC/MD	ReRun
33	P3458-01	EB-224-375	VX042971.D	09 Aug 2024 04:53	vial A pH<2 EB, hit of Com#16, Surrogate Fail	JC/MD	ReRun
34	P3469-04	TB-03	VX042972.D	09 Aug 2024 05:16	vial A pH<2 TB	JC/MD	Ok
35	P3515-01	BP-TB-20240806	VX042973.D	09 Aug 2024 05:39	vial A pH<2 TB, Surrogate Fail	JC/MD	ReRun
36	P3515-03	BPOW6-7-HYD-202408	VX042974.D	09 Aug 2024 06:03	vial A pH<2 Surrogate Fail	JC/MD	ReRun
37	P3515-02	TT189D2-HYD-202408	VX042975.D	09 Aug 2024 06:26	vial A pH<2	JC/MD	Ok

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX080824

Review By	John Carlone	Review On	8/9/2024 3:18:32 PM		
Supervise By	Mahesh Dadoda	Supervise On	8/9/2024 6:24:30 PM		
SubDirectory	VX080824	HP Acquire Method		HP Processing Method	624X080624W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129557,VP129583
Initial Calibration Stds	
CCC	VP129558,VP129559,VP129560,VP129584,VP129585
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	P3458-05	MLS-15-360-375	VX042976.D	09 Aug 2024 06:49	vial A pH<2	JC/MD	Ok
39	P3458-04	MLS-15-257-272	VX042977.D	09 Aug 2024 07:12	vial A pH<2	JC/MD	Ok
40	P3458-03	MLS-15-224-239	VX042978.D	09 Aug 2024 07:36	vial A pH<2 Need 5X	JC/MD	Dilution
41	P3469-01	MLS-15-513-528	VX042979.D	09 Aug 2024 07:59	vial A pH<2	JC/MD	Ok
42	P3469-02	MLS-15-625-640	VX042980.D	09 Aug 2024 08:22	vial A pH<2	JC/MD	Ok
43	P3469-03	MLS-15-682-697	VX042981.D	09 Aug 2024 08:44	vial A pH<2	JC/MD	Ok
44	P3457-02	932-K1-WS-080224	VX042982.D	09 Aug 2024 09:06	vial A pH<2 Surrogate Fail	JC/MD	ReRun
45	P3458-06	MLS-15-383-398	VX042983.D	09 Aug 2024 09:29	vial A pH<2	JC/MD	Ok
46	VSTDCCC050	VSTDCCC050EC	VX042984.D	09 Aug 2024 09:52		JC/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX080924

Review By	John Carlone	Review On	8/10/2024 9:32:08 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/12/2024 4:40:06 PM		
SubDirectory	VX080924	HP Acquire Method		HP Processing Method	82X080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129602
Initial Calibration Stds	
CCC	VP129603,VP129604
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX042985.D	09 Aug 2024 10:32		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX042986.D	09 Aug 2024 11:01	V13516	JC/MD	Ok,M
3	VX0809MBL01	VX0809MBL01	VX042987.D	09 Aug 2024 11:28		JC/MD	Ok
4	VX0809WBL01	VX0809WBL01	VX042988.D	09 Aug 2024 11:52		JC/MD	Ok
5	VX0809WBS01	VX0809WBS01	VX042989.D	09 Aug 2024 12:15		JC/MD	Ok,M
6	VX0809WBSD01	VX0809WBSD01	VX042990.D	09 Aug 2024 12:42		JC/MD	Ok,M
7	P3514-01	GWBR-05-459-475-080	VX042991.D	09 Aug 2024 13:06	Need straight run	JC/MD	Not Ok
8	P3514-02	TB-01-080724	VX042992.D	09 Aug 2024 13:29	vial A pH<2 TB	JC/MD	Ok
9	P3514-01	GWBR-05-459-475-080	VX042993.D	09 Aug 2024 13:53	vial A pH<2	JC/MD	Ok
10	P3458-03DL	MLS-15-224-239DL	VX042994.D	09 Aug 2024 14:16	vial B pH<2	JC/MD	Ok
11	P3458-02	EB-70-150	VX042995.D	09 Aug 2024 14:40	vial B pH<2 EB	JC/MD	Ok,M
12	P3458-07	TB-02	VX042996.D	09 Aug 2024 15:03	vial B pH<2 TB	JC/MD	Ok
13	P3458-01	EB-224-375	VX042997.D	09 Aug 2024 15:27	vial B pH<2 EB	JC/MD	Ok
14	P3515-03RE	BPOW6-7-HYD-202408	VX042998.D	09 Aug 2024 15:50	vial B pH<2 end cc missing	JC/MD	Confirms
15	P3515-01RE	BP-TB-20240806RE	VX042999.D	09 Aug 2024 16:14	vial B pH<2 TB end cc missing	JC/MD	Confirms
16	P3430-02	927-K1-WPO-0-0.25-07	VX043000.D	09 Aug 2024 17:01	vial B pH<2	JC/MD	Ok
17	P3410-01DL	GW-S-864-9-14-073024	VX043001.D	09 Aug 2024 17:24	Internal standard fail, not match	JC/MD	Not Ok
18	P3457-01	924-K1-WS-080224	VX043002.D	09 Aug 2024 17:48	vial B pH<2	JC/MD	Ok

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX080924

Review By	John Carlone	Review On	8/10/2024 9:32:08 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/12/2024 4:40:06 PM		
SubDirectory	VX080924	HP Acquire Method		HP Processing Method	82X080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129602
Initial Calibration Stds	
CCC	VP129603,VP129604
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P3430-05DL	925-K1-WPO-0-0.25-07	VX043003.D	09 Aug 2024 18:11	vial B pH<2	JC/MD	Ok

M : Manual Integration

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

Prep Standard - Chemical Standard Summary

Order ID : P3457

Test : VOCMS Group6

Prepbatch ID :

Sequence ID/Qc Batch ID: vn081024,VX080824,vx080924,

Standard ID :
VP126666,VP127286,VP128290,VP128298,VP128762,VP128764,VP128766,VP129228,VP129230,VP129517,VP129519,VP129557,VP129558,VP129559,VP129560,VP129583,VP129584,VP129585,VP129602,VP129603,VP129604,VP129626,VP129627,VP129628,

Chemical ID :
V12566,V12664,V12794,V12798,V13390,V13444,V13462,V13463,V13708,V13800,V13801,V13952,V13953,V14016,V14017,V14103,V14104,V14138,V14141,V14143,V14147,V14148,V14169,V14170,V14202,V14207,V14219,V14288,V14411,V14412,V14413,V14414,W3112,

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
617	8260 Surrogate, 400PPM	VP126666	03/19/2024	09/19/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/28/2024

FROM 0.80000ml of V13708 + 49.20000ml of V14141 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
466	624 Internal Standard and Surrogate Mix, 150PPM	VP127286	04/22/2024	10/22/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/03/2024

FROM 0.15000ml of V12566 + 0.15000ml of V12664 + 24.70000ml of V14138 = Final Quantity: 25.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
218	BFB, 25PPM	VP128290	06/10/2024	11/23/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/12/2024

FROM 0.25000ml of V13390 + 24.75000ml of V14148 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
247	8260 Internal Standard, 250PPM	VP128298	06/10/2024	11/23/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/12/2024

FROM 0.10000ml of V14288 + 9.90000ml of V14148 = Final Quantity: 10.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1810	8260 Working Std(2-CVE)-800ppm	VP128762	07/01/2024	12/11/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/02/2024

FROM 0.50000ml of V12798 + 1.50000ml of V12794 + 23.00000ml of V14147 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1812	8260 Working Std(2-CVE)-100ppm	VP128764	07/01/2024	12/11/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/02/2024

FROM 0.20000ml of V12798 + 19.08000ml of V14147 = Final Quantity: 20.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
719	8260 Working STD (BCM)-First source, 400PPM	VP128766	07/01/2024	12/11/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/02/2024

FROM 1.50000ml of V13462 + 1.50000ml of V13463 + 12.00000ml of V14147 = Final Quantity: 15.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
51	8260 Working STD (Acrolein) -first source, 800PPM	VP129228	07/25/2024	08/24/2024	Semsettin Yesilyurt	None	None	Mahesh 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

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
180	8260 Working STD (Acrolein)-First source, 100PPM	VP129230	07/25/2024	08/24/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/30/2024

FROM 17.50000ml of V14143 + 2.50000ml of VP129228 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
245	8260 Calibration Working STD Mix-First source, 20PPM	VP129519	08/05/2024	09/14/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/08/2024

FROM 17.50000ml of V14143 + 2.50000ml of VP129517 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP129557	08/08/2024	08/09/2024	John Carlone	None	None	Mahesh Dadoda 08/12/2024

FROM 39.98400ml of W3112 + 0.01600ml of VP128290 = Final Quantity: 40.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
645	20 PPB CCC, 624	VP129558	08/08/2024	08/09/2024	John Carlone	None	None	Mahesh Dadoda 08/12/2024

FROM 39.97000ml of W3112 + 0.00500ml of VP128762 + 0.00500ml of VP129228 + 0.00500ml of VP129517 + 0.00800ml of VP127286 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
645	20 PPB CCC, 624	VP129559	08/08/2024	08/09/2024	John Carlone	None	None	Mahesh Dadoda 08/12/2024

FROM 39.97000ml of W3112 + 0.00500ml of VP128762 + 0.00500ml of VP129228 + 0.00500ml of VP129517 + 0.00800ml of VP127286 = Final Quantity: 40.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3591	624 WATER 2.5 PPB MDL	VP129560	08/08/2024	08/09/2024	John Carlone	None	None	Mahesh Dadoda 08/12/2024

FROM 39.90000ml of W3112 + 0.00500ml of VP128764 + 0.00500ml of VP129230 + 0.00500ml of VP129519 + 0.00800ml of VP127286 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP129583	08/08/2024	08/09/2024	John Carlone	None	None	Mahesh Dadoda 08/12/2024

FROM 39.98400ml of W3112 + 0.01600ml of VP128290 = Final Quantity: 40.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP129584	08/08/2024	08/09/2024	John Carlone	None	None	Mahesh Dadoda 08/12/2024

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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP129585	08/08/2024	08/09/2024	John Carlone	None	None	Mahesh Dadoda 08/12/2024

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

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP129602	08/09/2024	08/10/2024	John Carlone	None	None	Mahesh Dadoda 08/12/2024

FROM 39.98400ml of W3112 + 0.01600ml of VP128290 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP129603	08/09/2024	08/10/2024	John Carlone	None	None	Mahesh Dadoda 08/12/2024

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

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP129604	08/09/2024	08/10/2024	John Carlone	None	None	Mahesh Dadoda 08/12/2024

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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP129626	08/10/2024	08/11/2024	John Carlone	None	None	Semsettin Yesilyurt 08/12/2024

FROM 39.98400ml of W3112 + 0.01600ml of VP128290 = Final Quantity: 40.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP129627	08/10/2024	08/11/2024	John Carlone	None	None	Semsettin Yesilyurt 08/12/2024

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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP129628	08/10/2024	08/11/2024	John Carlone	None	None	Semsettin Yesilyurt 08/12/2024

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

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555584 / Custom Standard, CLP VOA SurrogateStd [CS 5179-4]	A0179624	10/22/2024	04/22/2024 / SAM	01/04/2022 / SAM	V12566

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555583 / Custom Standard, CLP VOA Internal Std [CS 5179-3]	A0181978	10/22/2024	04/22/2024 / SAM	02/22/2022 / SAM	V12664

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	121321	12/13/2024	06/25/2024 / SAM	03/30/2022 / SAM	V12794

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	121321	12/13/2024	06/25/2024 / SAM	03/30/2022 / SAM	V12798

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	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

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

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	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0196865	09/19/2024	03/19/2024 / SAM	04/12/2023 / SAM	V13708

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	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0196115	09/30/2024	06/14/2024 / SAM	09/25/2023 / SAM	V13952

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	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 #
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 LOTS	A0205179	12/14/2024	06/14/2024 / SAM	12/22/2023 / SAM	V14103

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 LOTS	A0205179	12/14/2024	06/14/2024 / SAM	12/22/2023 / SAM	V14104

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	10/22/2024	04/22/2024 / pedro	02/06/2024 / SAM	V14138

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

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	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

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

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	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

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

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

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	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 #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty 5E-05 Balance Uncertainty

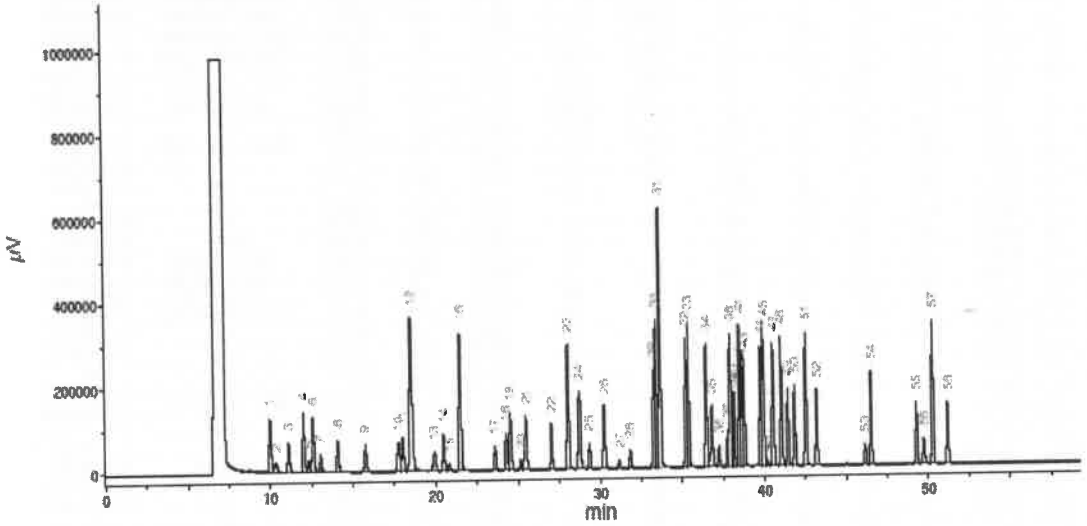
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 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)	orl-rat 2460mg/kg
2. 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)	orl-rat 700mg/kg
3. Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS0000	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0361)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8718V	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)	orl-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)	orl-rat 2460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-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	orl-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	orl-rat 848mg/kg
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-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	orl-rat 820mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-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)	orl-rat 933mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-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)	orl-rat 908mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-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	594-20-7	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)	orl-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-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	106-93-4	20 ppm (8H)	orl-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)	orl-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)	orl-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	unr-mus 3600mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	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)	orl-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	orl-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)	orl-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (46mg/m3/8H)(skin)	orl-rat 836mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/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)	orl-rat 149.6mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-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)	orl-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	99-87-6	N/A	orl-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)	orl-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	orl-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	orl-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 1390mg/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)	orl-rat 756mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-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	orl-rat 5000mg/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-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	135-98-8	N/A	orl-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)	orl-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	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65. 1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66. Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67. n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 6040mg/kg
68. o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69. p-Xylene	35163	101923	0.05	5.00	40000.6	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/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 sample, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: 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).

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., Hydogen(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	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.46
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethene	23.58
18	1,2-Dichloropropane	24.28
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.86
32	o-Xylene	35.22
33	Styrene	35.38
34	Isopropylbenzene/Bromoform	36.18
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	37.93
39	trans-1,4-Dichloro-2-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	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.48
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

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 sheild**
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. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
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#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty 5E-05 Balance Uncertainty

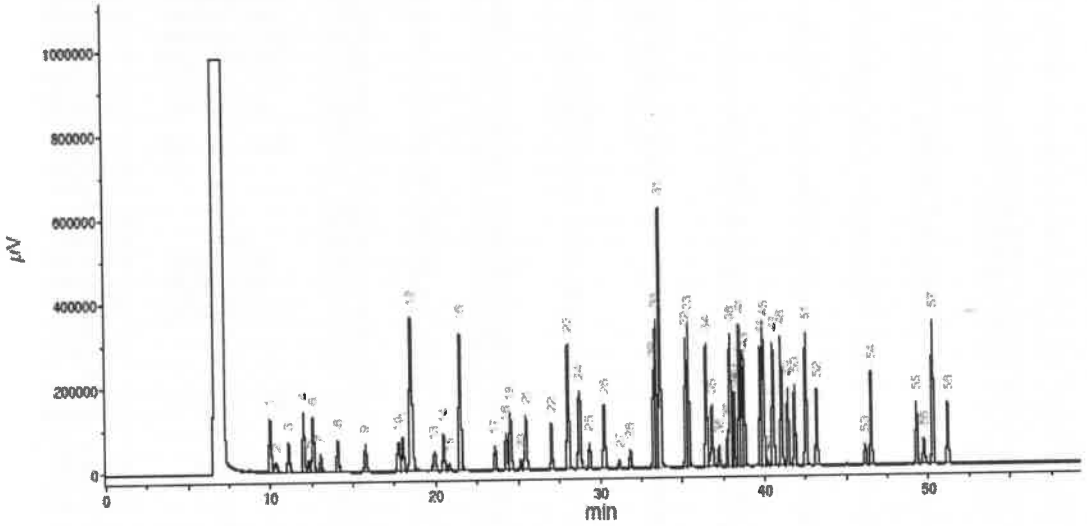
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 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)	orl-rat 2460mg/kg
2. 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)	orl-rat 700mg/kg
3. Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS0000	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0361)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8718V	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)	orl-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)	orl-rat 2460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-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	orl-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	orl-rat 848mg/kg
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-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	orl-rat 820mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-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)	orl-rat 933mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-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)	orl-rat 908mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-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	594-20-7	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)	orl-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-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	106-93-4	20 ppm (8H)	orl-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)	orl-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)	orl-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	unr-mus 3600mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	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)	orl-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	orl-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)	orl-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (46mg/m3/8H)(skin)	orl-rat 836mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/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)	orl-rat 149.6mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-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)	orl-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	99-87-6	N/A	orl-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)	orl-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	orl-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	orl-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 1390mg/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)	orl-rat 756mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-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	orl-rat 5000mg/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-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	135-98-8	N/A	orl-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)	orl-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	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65. 1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66. Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67. n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 6040mg/kg
68. o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69. p-Xylene	35163	101923	0.05	5.00	40000.6	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/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 sample, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: 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).

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., Hydogen(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	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.46
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethene	23.58
18	1,2-Dichloropropane	24.28
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.86
32	o-Xylene	35.22
33	Styrene	35.38
34	Isopropylbenzene/Bromoform	36.18
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	37.93
39	trans-1,4-Dichloro-2-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	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.48
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

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 sheild**
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. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
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.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

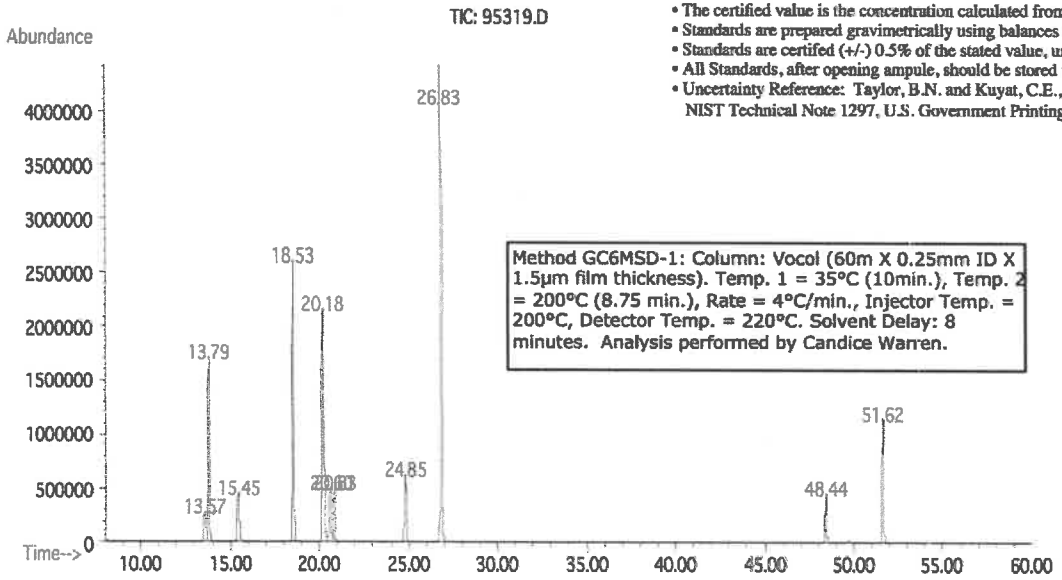
Part Number: 95319
Lot Number: 032922
Description: Revised Additions Mix
11 components
Expiration Date: 032925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.012 Flask Uncertainty

Solvent(s): Methanol **Lot#** EC592-US

Formulated By: Prashant Chauhan 032922 DATE

Reviewed By: Pedro L. Rentas 032922 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	orl-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	orl-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)	orl-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)	orl-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)	orl-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)	orl-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	orl-rat 4g/kg
9. Propionitrile	349	1395468	20000	99	0.2	2.02030	2.02045	20001.5	81.0	107-12-0	N/A	orl-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)	orl-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	orl-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 certifed (+/-) 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).

Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Solvent Delay: 8 minutes. Analysis performed by Candice Warren.

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

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

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 Date Prepared/Revised	**1-352-323-3500** 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 sheild**
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 (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
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.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

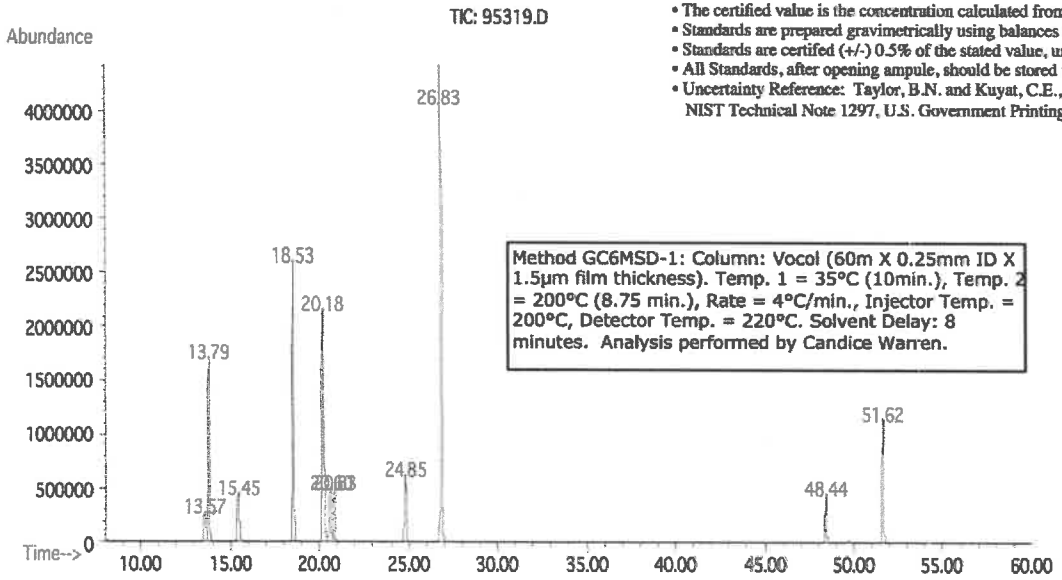
Part Number: 95319
Lot Number: 032922
Description: Revised Additions Mix
11 components
Expiration Date: 032925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.012 Flask Uncertainty

Solvent(s): Methanol **Lot#** EC592-US

Formulated By: Prashant Chauhan 032922 DATE

Reviewed By: Pedro L. Rentas 032922 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	orl-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	orl-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)	orl-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)	orl-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)	orl-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)	orl-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	orl-rat 4g/kg
9. Propionitrile	349	1395468	20000	99	0.2	2.02030	2.02045	20001.5	81.0	107-12-0	N/A	orl-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)	orl-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	orl-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 certifed (+/-) 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).

Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Solvent Delay: 8 minutes. Analysis performed by Candice Warren.

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

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

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 Date Prepared/Revised	**1-352-323-3500** 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 sheild**
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 (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
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.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 072423
Description: Acrolein

Expiration Date: 082423
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): Water **Lot#** 102422Q

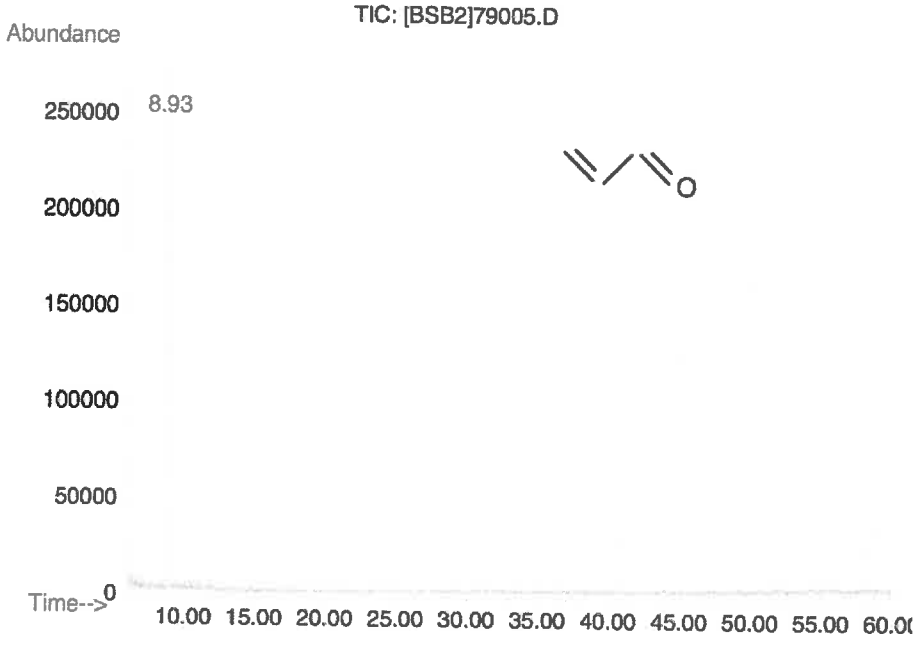
5 Sony

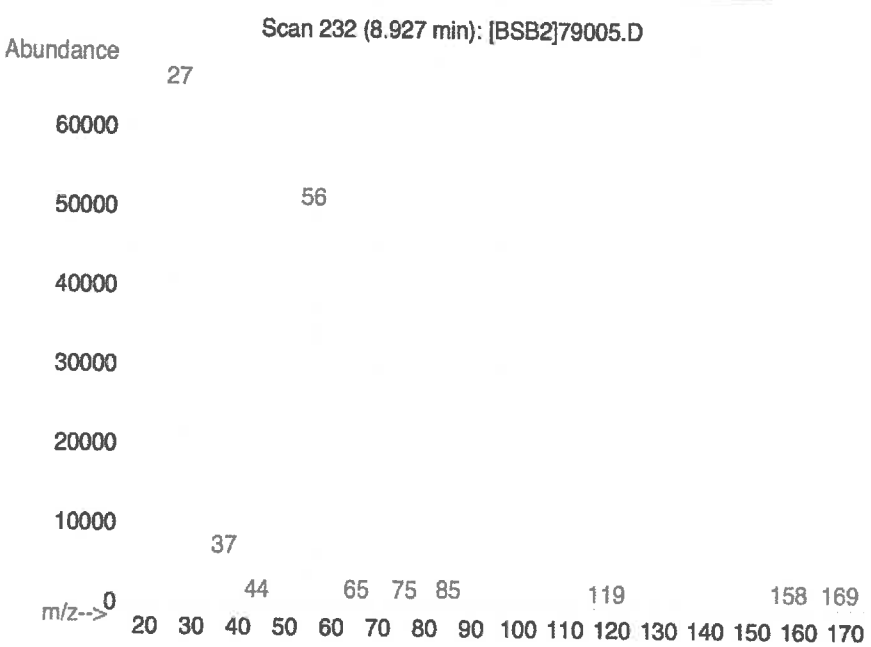
Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

Gabriel Helland	072423
Formulated By: Gabriel Helland	DATE
Pedro 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	orl-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 certifed (+/-) 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).

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

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 sheild**
		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)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	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)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
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.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 072423
Description: Acrolein

Expiration Date: 082423
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): Water **Lot#** 102422Q

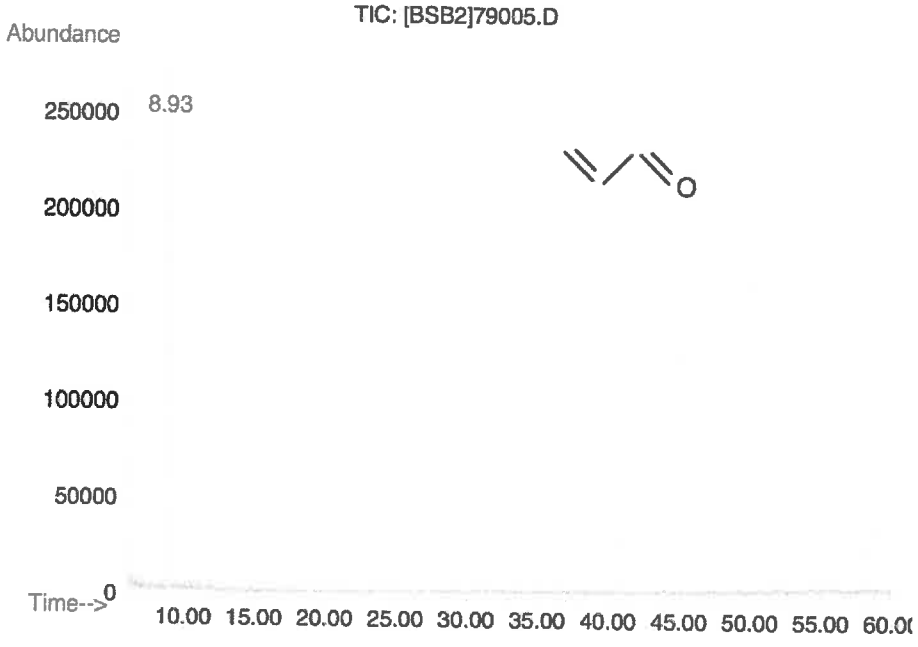
5 Sony

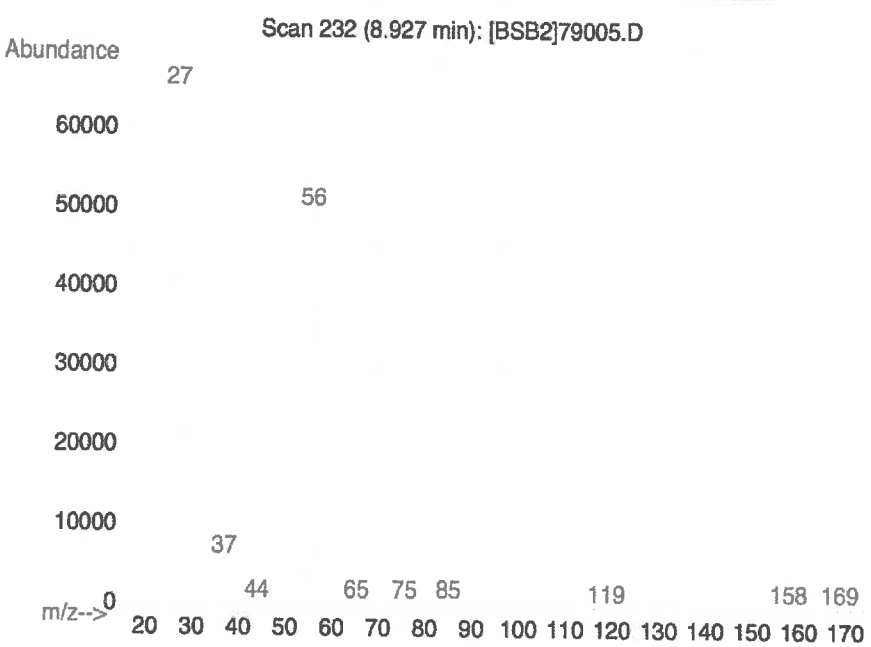
Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

Gabriel Helland	072423
Formulated By: Gabriel Helland	DATE
Pedro 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	orl-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 certifed (+/-) 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).

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

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 sheild**
		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)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	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)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
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.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 072423
Description: Acrolein

Expiration Date: 082423
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): Water **Lot#** 102422Q

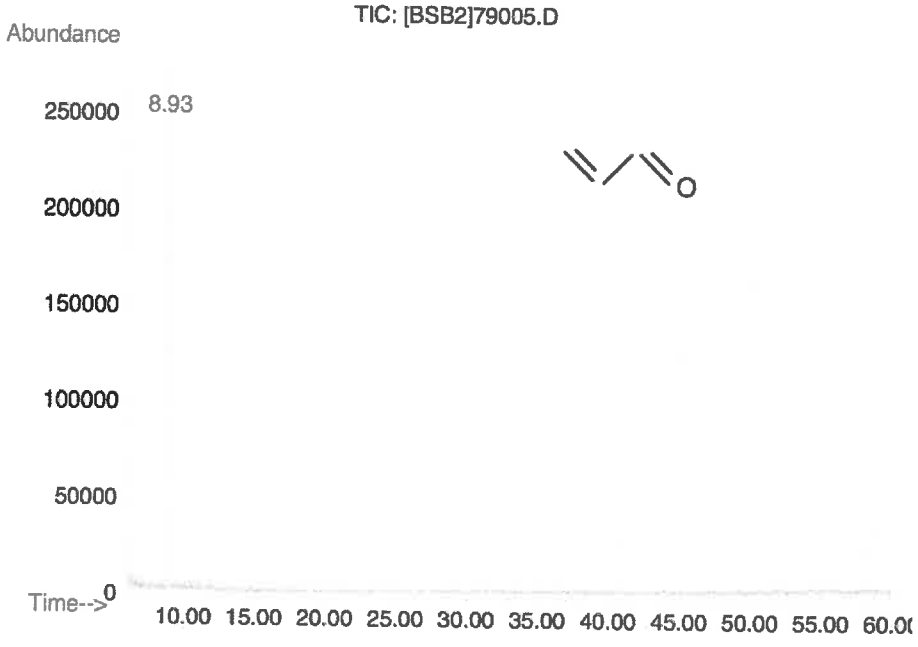
5 Sony

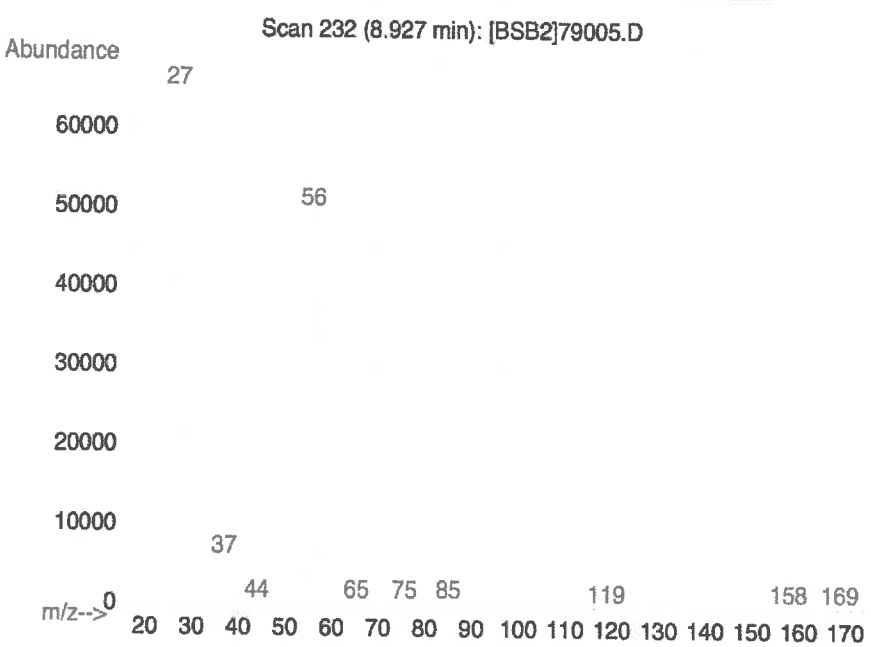
Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

Gabriel Helland	072423
Formulated By: Gabriel Helland	DATE
Pedro 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	orl-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 certifed (+/-) 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).

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

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 sheild**
		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)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	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)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
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.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 072423
Description: Acrolein

Expiration Date: 082423
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): Water **Lot#** 102422Q

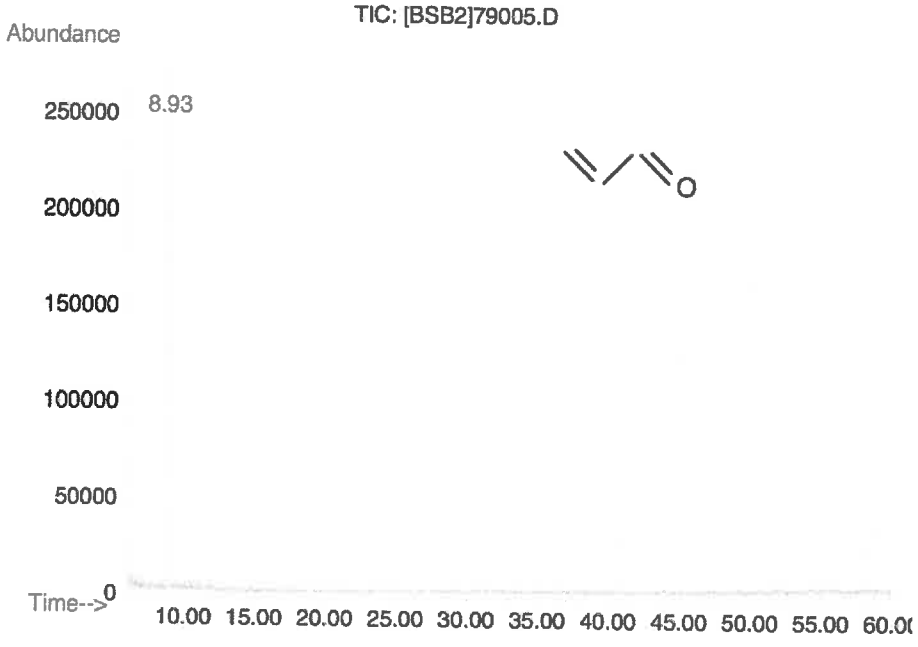
5 Sony

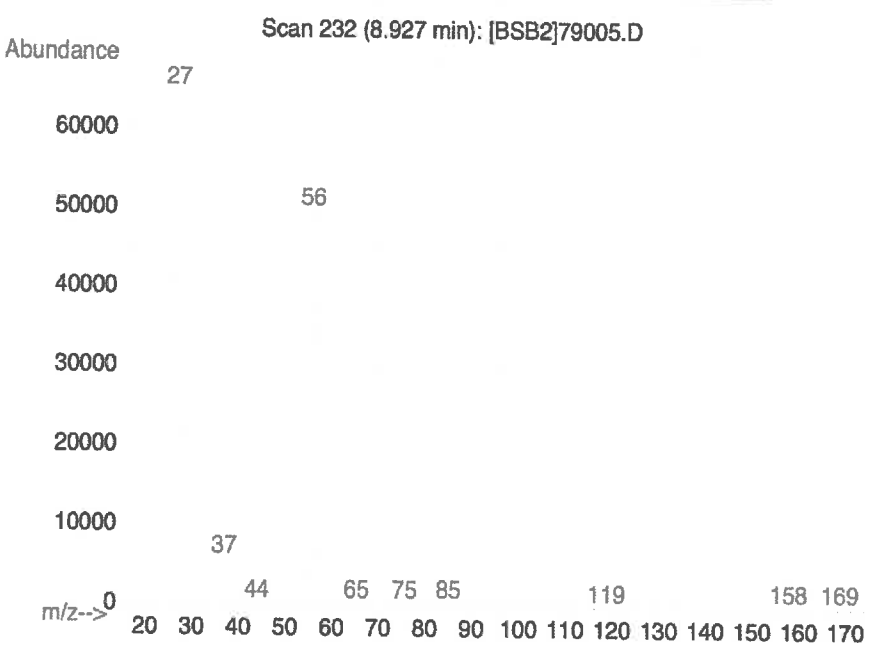
Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

Gabriel Helland	072423
Formulated By: Gabriel Helland	DATE
Pedro 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	orl-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 certifed (+/-) 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).

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

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 sheild**
		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)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	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)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
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.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 121321
Description: 2-Chloroethyl vinyl ether

Solvent(s): **Lot#**
Methanol EA899-US

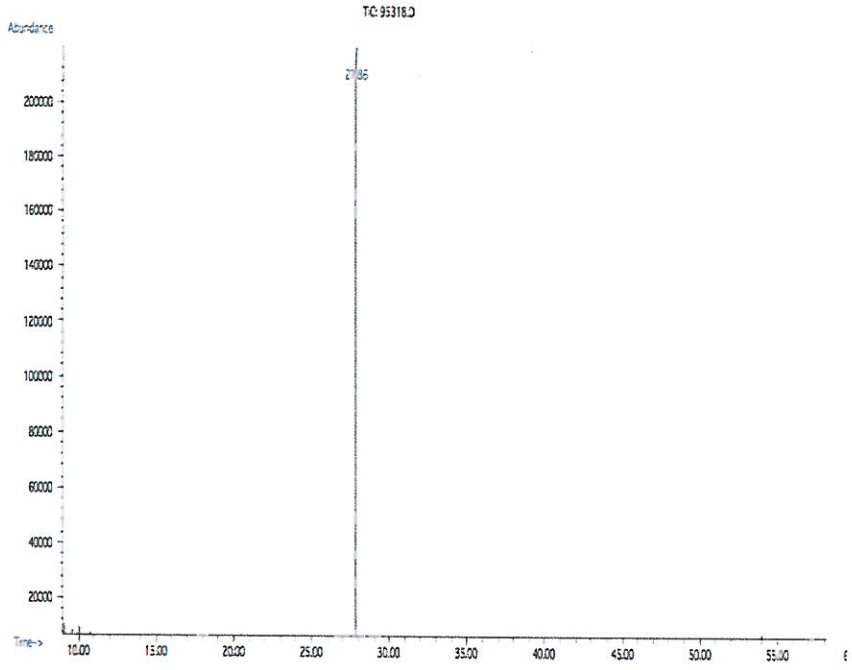
Expiration Date: 121324
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

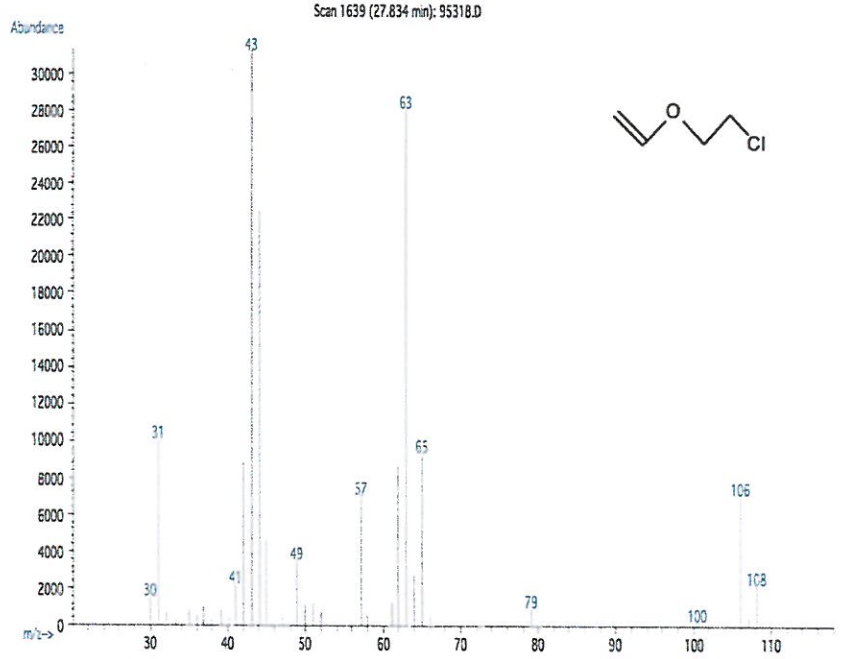
Weight(s) shown below were combined and diluted to (mL): 30.0 | 5E-05 Balance Uncertainty | 0.0003 Flask Uncertainty

		121321
Formulated By:	Benson Chan	DATE
		121321
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	0.30320	0.30411	10030.2	40.7	110-75-8	N/A	orl-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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 121321
Description: 2-Chloroethyl vinyl ether

Solvent(s): **Lot#**
Methanol EA899-US

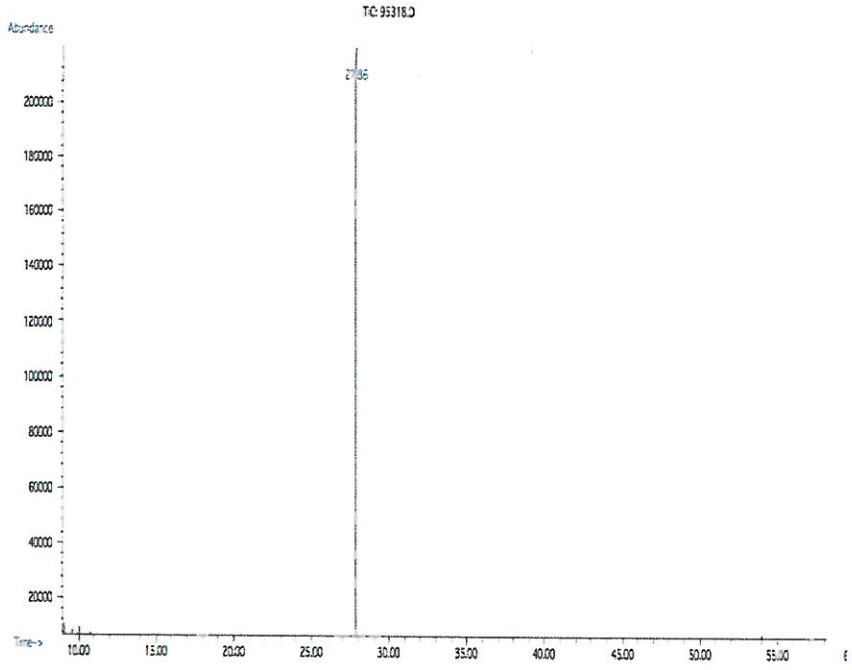
Expiration Date: 121324
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

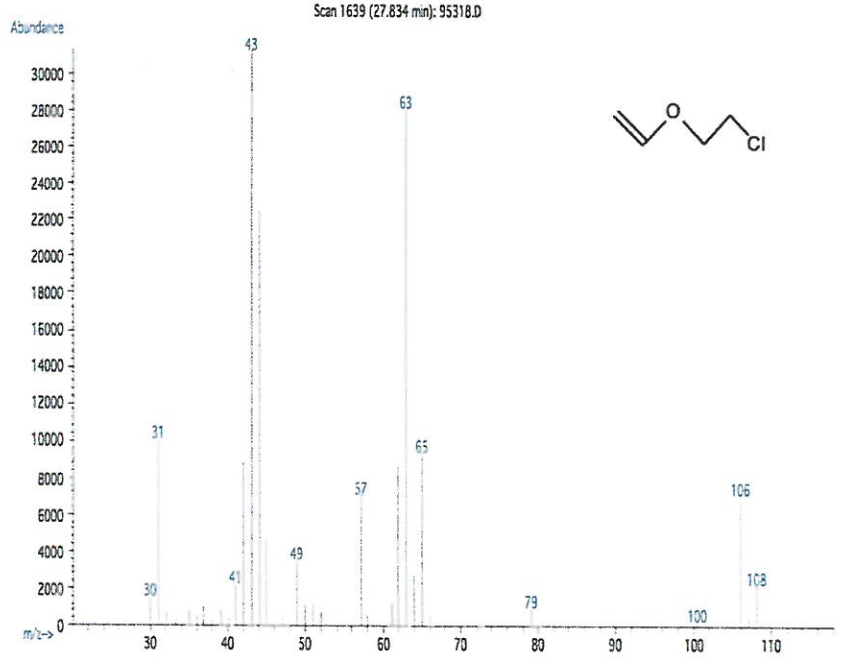
Weight(s) shown below were combined and diluted to (mL): 30.0 | 5E-05 Balance Uncertainty | 0.0003 Flask Uncertainty

		121321
Formulated By:	Benson Chan	DATE
		121321
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	0.30320	0.30411	10030.2	40.7	110-75-8	N/A	orl-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).

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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. : 555583 **Lot No.:** A0181978

Description : Custom CLP VOA Internal Standard Mix

Custom CLP VOA Internal Standard Mix 25,000µg/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

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,4-Difluorobenzene **CAS #** 540-36-3 (Lot MKBN8571V) **Purity** 99%	25,032.0 µg/mL	+/- 231.6508 µg/mL +/- 1,415.0433 µg/mL +/- 1,447.6224 µg/mL	Gravimetric Unstressed Stressed
2	Bromochloromethane **CAS #** 74-97-5 (Lot 00008541) **Purity** 99%	25,036.0 µg/mL	+/- 231.6879 µg/mL +/- 1,415.2694 µg/mL +/- 1,447.8538 µg/mL	Gravimetric Unstressed Stressed
3	Chlorobenzene-d5 **CAS #** 3114-55-4 (Lot PR-29571) **Purity** 99%	25,104.0 µg/mL	+/- 232.3171 µg/mL +/- 1,419.1134 µg/mL +/- 1,451.7863 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Miranda Kline

Miranda Kline - Operations Technician I

Date Mixed: 17-Feb-2022 **Balance:** B707717271

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:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

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.

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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)	50,126.0 µg/mL	+/- 293.4988 µg/mL	Gravimetric
	CAS # 75-65-0 (Lot SHBM7694)		+/- 1,073.7654 µg/mL	Unstressed
	Purity 99%		+/- 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)

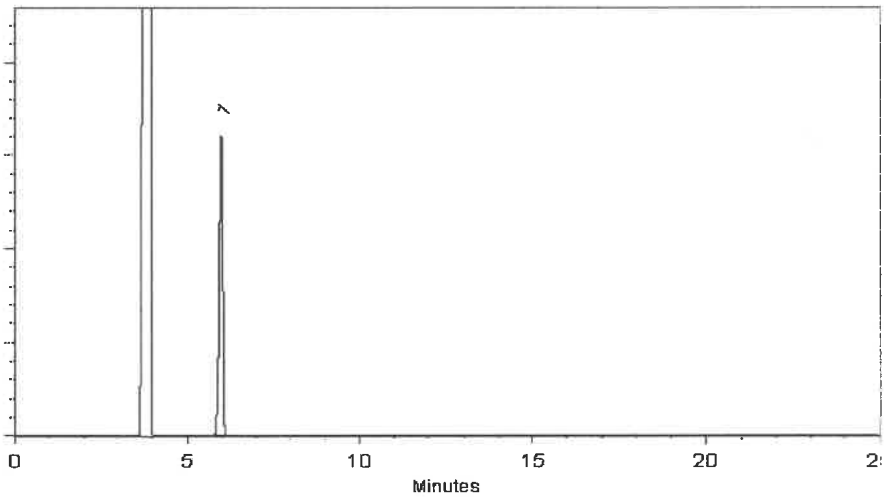
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Marlina 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:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

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.

RESTEK
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

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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.)

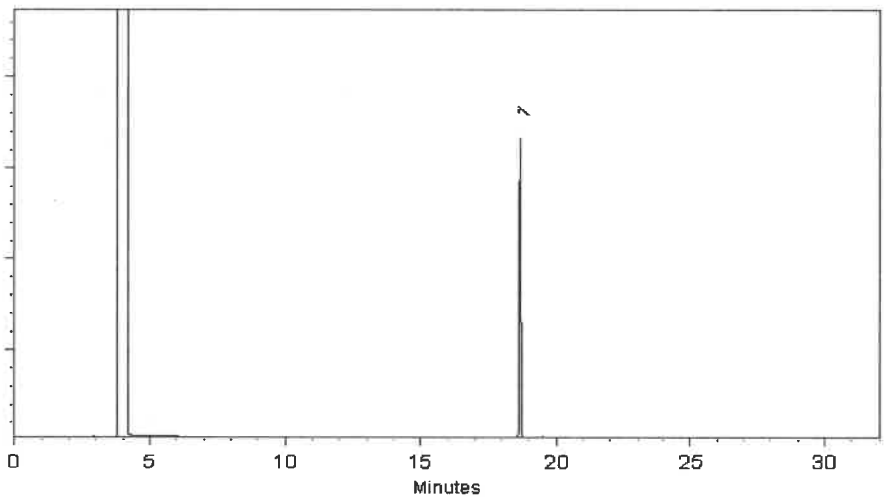
Inj. Temp:
200°C

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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.

RESTEK
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

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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.)

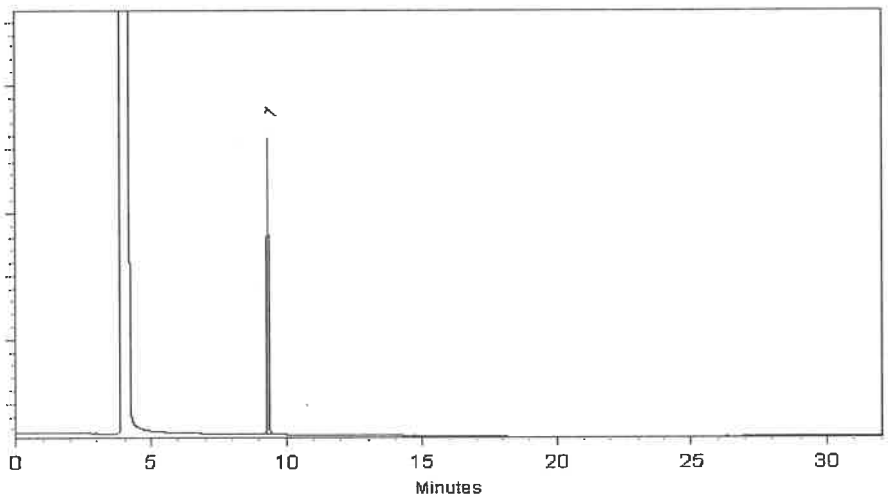
Inj. Temp:
200°C

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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.

RESTEK
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

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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.)

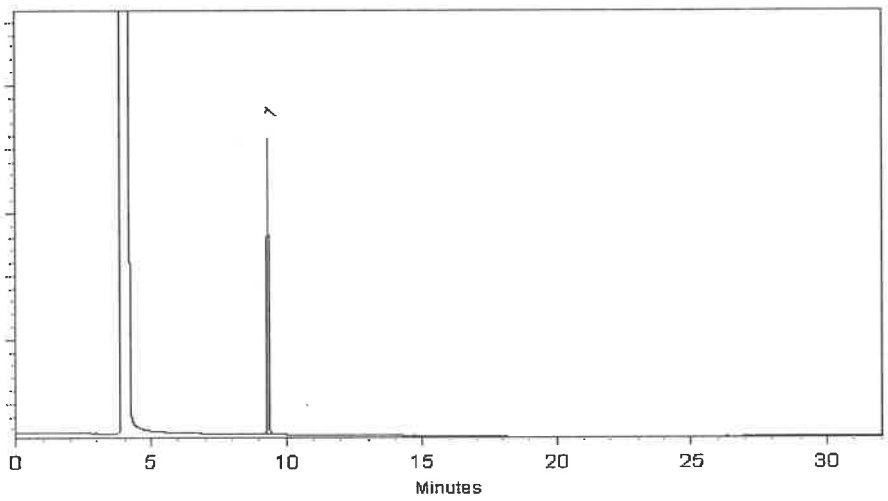
Inj. Temp:
200°C

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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.

RESTEK
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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0194279

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00012554	99%	2,001.5 µg/mL	+/- 112.7231
2	Chloromethane (methyl chloride)	74-87-3	SHBK6571	99%	2,001.2 µg/mL	+/- 112.5863
3	Vinyl chloride	75-01-4	00015559	99%	2,001.4 µg/mL	+/- 112.6561
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8262
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,001.9 µg/mL	+/- 112.5897
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	2,000.8 µg/mL	+/- 112.6473

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

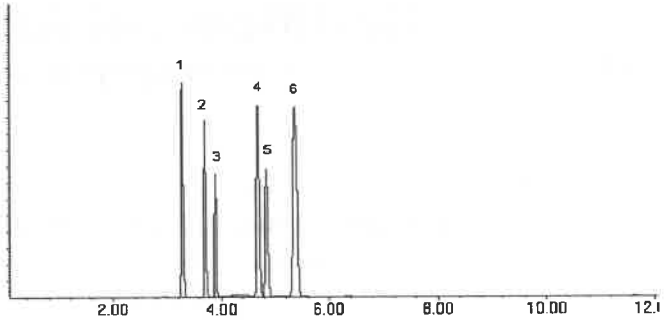
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 03-Feb-2023 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 07-Feb-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.

RESTEK
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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0194279

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00012554	99%	2,001.5 µg/mL	+/- 112.7231
2	Chloromethane (methyl chloride)	74-87-3	SHBK6571	99%	2,001.2 µg/mL	+/- 112.5863
3	Vinyl chloride	75-01-4	00015559	99%	2,001.4 µg/mL	+/- 112.6561
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8262
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,001.9 µg/mL	+/- 112.5897
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	2,000.8 µg/mL	+/- 112.6473

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

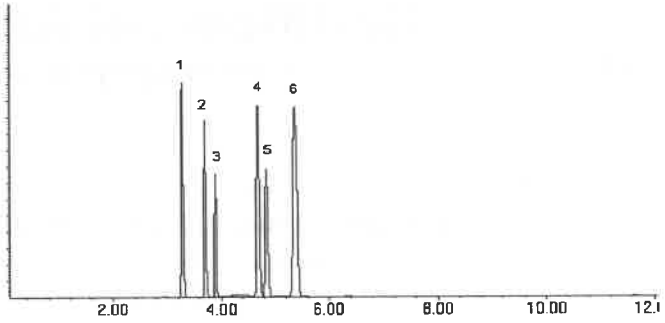
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 03-Feb-2023 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 07-Feb-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.

RESTEK
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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.)

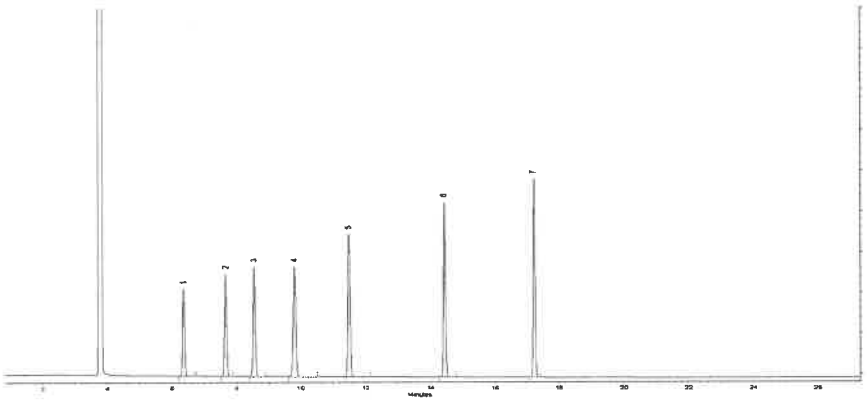
Inj. Temp:
200°C

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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.

RESTEK
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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.)

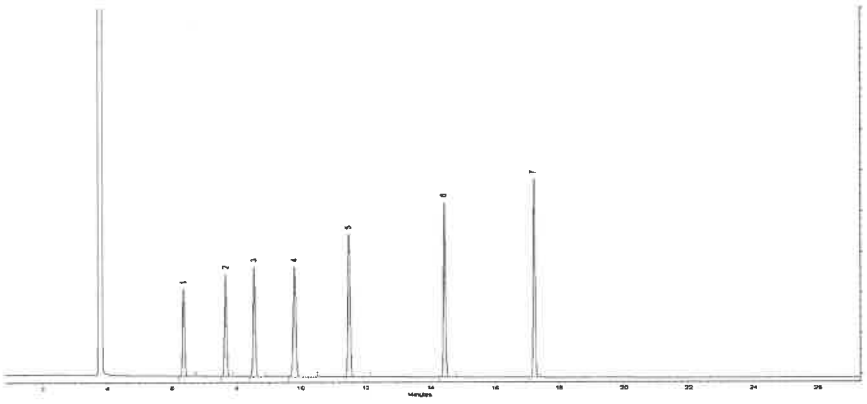
Inj. Temp:
200°C

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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.

RESTEK
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

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.

RESTEK
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

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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.)

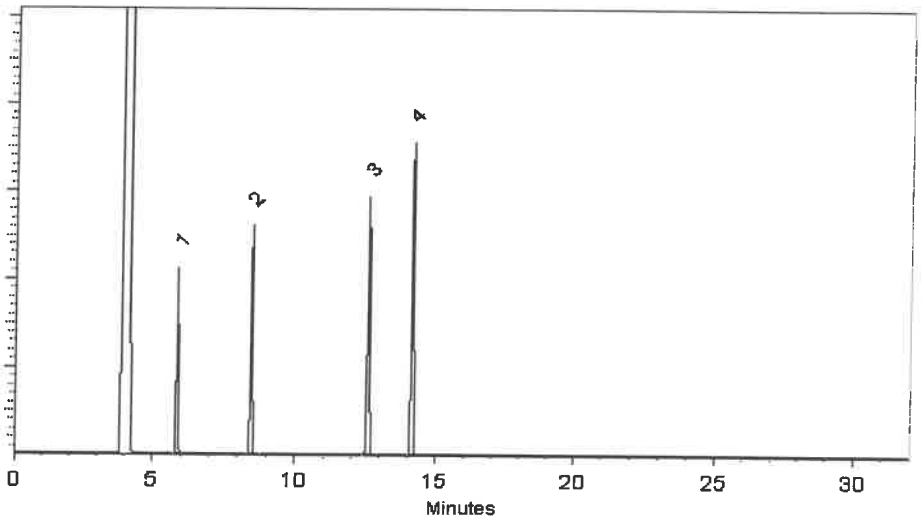
Inj. Temp:
200°C

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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.

RESTEK
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

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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.)

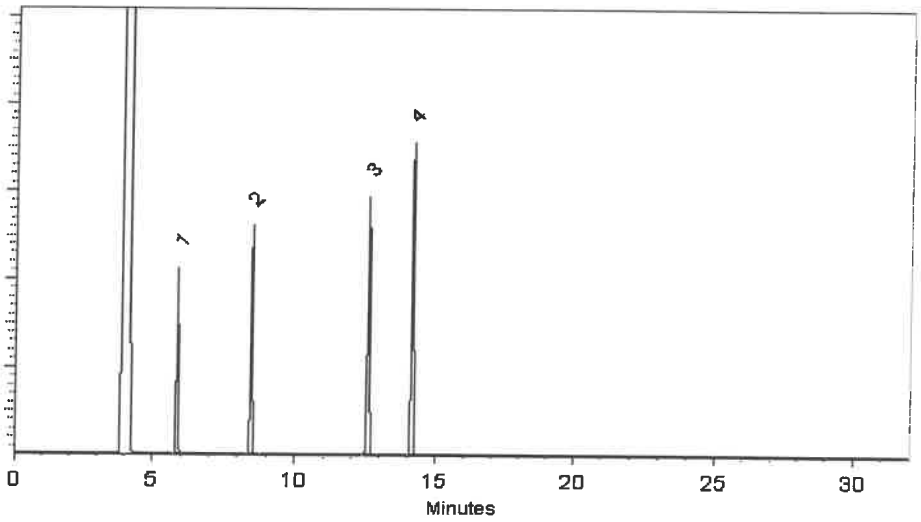
Inj. Temp:
200°C

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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.

RESTEK
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

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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.)

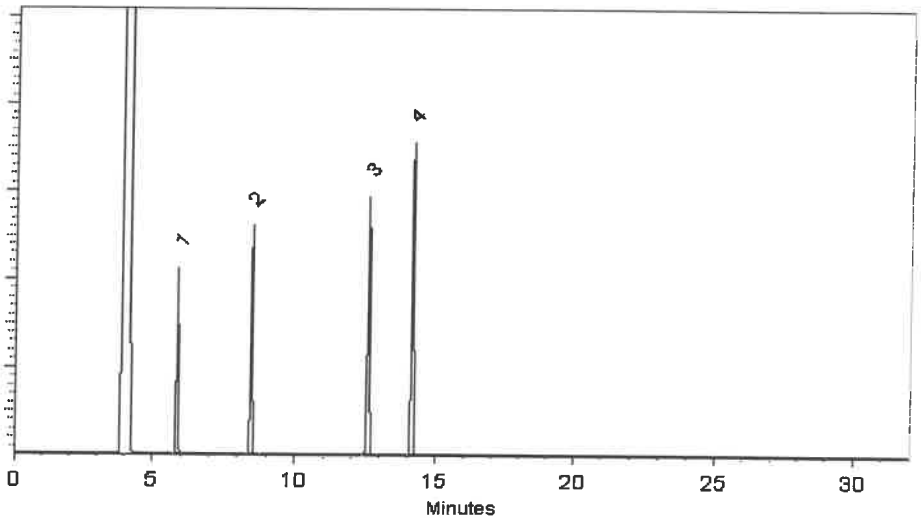
Inj. Temp:
200°C

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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.

12

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.)

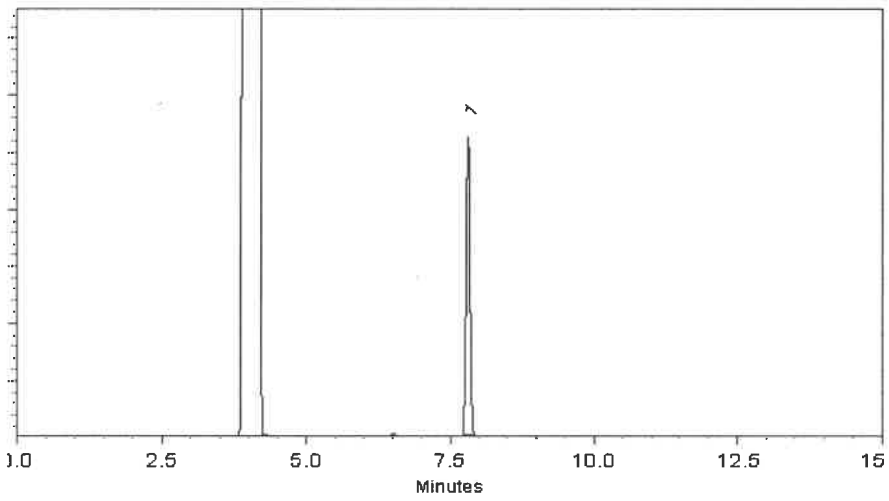
Inj. Temp:
200°C

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

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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.

12

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.)

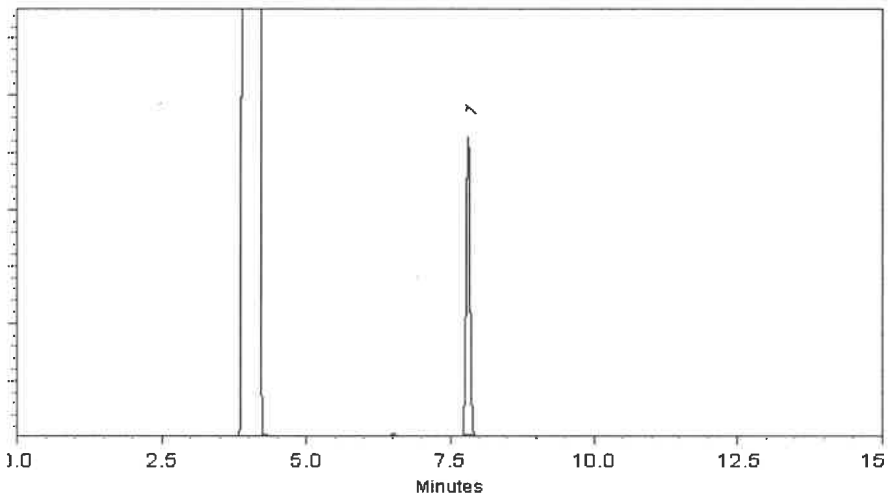
Inj. Temp:
200°C

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

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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.

RESTEK
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

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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

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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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. : 555584 **Lot No.:** A0179624

Description : Custom CLP VOA Surrogate Standard Mix

Custom CLP VOA Surrogate Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,2-Dichloroethane-d4 **CAS #** 17060-07-0 (Lot PR-29377) **Purity** 99%	25,032.0 µg/mL	+/- 231.6508 µg/mL +/- 1,415.0433 µg/mL +/- 1,447.6224 µg/mL	Gravimetric Unstressed Stressed
2	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 20401KO) **Purity** 99%	25,072.0 µg/mL	+/- 232.0210 µg/mL +/- 1,417.3044 µg/mL +/- 1,449.9357 µg/mL	Gravimetric Unstressed Stressed
3	Toluene-d8 **CAS #** 2037-26-5 (Lot PR-31958) **Purity** 99%	25,024.0 µg/mL	+/- 231.5768 µg/mL +/- 1,414.5910 µg/mL +/- 1,447.1598 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Cathleen Soltis
Cathleen Soltis - Mix Technician

Date Mixed: 16-Dec-2021 **Balance:** B251644995

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:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

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.

NTP:

Chemical Name	CAS No.
No data available	

IARC:

Chemical Name	CAS No.	Group No.

12. ECOLOGICAL INFORMATION

Overview:	Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility:	No data
Persistence:	No data
Bioaccumulation:	No data
Degradability:	Biodegrades slowly.
Ecological Toxicity Data:	No data available

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product:	Spent or discarded material is a hazardous waste.Mixing spent or discarded material with other materials may render the mixture hazardous. Perform a hazardous waste determination on mixtures.
Disposal Methods:	Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging:	Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:	
DOT Proper Shipping Name:	Flammable liquids, n.o.s (Methanol, Toluene-d8)
UN Number:	UN1993
Hazard Class:	3
Packing Group:	II
International:	
IATA Proper Shipping Name:	Flammable liquids, n.o.s (Methanol, Toluene-d8)
UN Number:	UN1993
Hazard Class:	3
Packing Group:	II

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available			

15. REGULATORY INFORMATION

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
P&T Methanol	67-56-1	X	X	-	X
1-Bromo-4-fluorobenzene (BFB)	460-00-4	-	-	-	X
1,2-dichloroethane-d4	17060-07-0	-	-	-	-
toluene-d8	2037-26-5	-	-	-	-

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
Methanol	67-56-1	Prop 65 Devolop Tox

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
P&T Methanol	67-56-1	X	X	X	X
1-Bromo-4-	460-00-4	-	-	-	-

fluorobenzene (BFB)					
1,2-dichloroethane-d4	17060-07-0	-	-	-	-
toluene-d8	2037-26-5	-	-	-	-

16. OTHER INFORMATION

Prior Version Date: 01/05/17

Other Information: Any changes to the SDS compared to previous versions are marked by a vertical line in front of the concerned paragraph.

References: No data available

Disclaimer: Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding products described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

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_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable 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

James T Ethier
Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

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_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable 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

James T Ethier
Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

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_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable 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

James T Ethier
Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

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_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable 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

James T Ethier
Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

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_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable 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

James T Ethier
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. P3457
COC Number 2041348

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Jacobs
ADDRESS: 412 Mt Kemble Ave Suite #100
CITY Morristown STATE: NJ ZIP: 07960
ATTENTION: John Yafarta
PHONE: (781) 414-1719 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: STC PTC
PROJECT NO.: D377992Z LOCATION: Princeton Junction
PROJECT MANAGER: Mary Murphy
e-mail: Mary.Murphy@Jacobs.com
PHONE: (201) 936-0586 FAX:

CLIENT BILLING INFORMATION

BILL TO: Mary Murphy PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

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 2 (Results + QC)
- ☒ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other
- ☐ EDD FORMAT

ANALYSIS

1 VOCs (8260)
2 SVOCs + PAH (8270E) 8270E SIM
3 Metals (6010) Hg 7470B Cr(VI) 7196A
4
5
6
7
8
9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	924-KI-WS-080224	WS		X	8/2/24	0855	8	2	4	1	1						
2.	932-KI-WS-080224	WS		X	8/2/24	0950	8	2	4	1	1						
3.	TB-01-080224	DI		X	8/2/24	1100	1	1									
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

A/E B/E

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	8/2/24 1708	1. 1208 8-2-24
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY SAMPLER: 3.	DATE/TIME: 1358 8-2-24	RECEIVED BY: 3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.8 °C
Comments: See attached table for required analytes list of ECO-VOCs, ECO-SVOCs, and ECO-metals
2L extra volume for SVOC and PAH analysis

Page 1 of 1

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

Copyright © 2023

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH 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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P3457 JACO05
Client Name : JACOBS Engineering Grou
Client Contact : Mary I. Murphy
Invoice Name : JACOBS Engineering Grou
Invoice Contact : Mary I. Murphy

Order Date : 8/2/2024 12:31:00 PM
Project Name : Former Schlumberger Site I
Receive DateTime : 8/2/2024 ~~12:00:00~~ AM 13:58
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : CH2MHILL
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P3457-01	924-~~KI~~-WS-080224 K1	Water	08/02/2024	08:55	VOCMS Group6		8260-Low		10 Bus. Days
P3457-02	932-~~KI~~-WS-080224 K1	Water	08/02/2024	09:50	VOCMS Group6		8260-Low		10 Bus. Days
P3457-03	TB-01-080224	Water	08/02/2024	11:00	VOCMS Group6		8260-Low		10 Bus. Days

Relinguished By :
Date / Time : 8-2-24 1420

Received By :
Date / Time : 8/2/24 14:20 Leg # 4

Storage Area : VOA Refridgerator Room