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

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : FORMER SCHLUMBERGER SITE PRINCETON NJ

JACOBS ENGINEERING GROUP, INC.

412 Mt. Kemble Ave

Downtown Building

Morristown, NJ - 07960

Phone No: 9732670555

ORDER ID : P3429

ATTENTION : Mary I. Murphy

Laboratory Certification ID # 20012

Alliance TECHNICAL GROUP

Table Of Contents for P3429

1) VOLATILES DATA 2

2) Signature Page 4

3) Case Narrative 5

4) Qualifier Page 7

5) Conformance/Non Conformance 8

6) QA Checklist 10

7) Chronicle 11

8) Hit Summary 12

9) QC Data Summary For VOCMS Group6 13

- 9.1) Deuterated Monitoring Compound Summary 14
- 9.2) LCS/LCSD Summary 16
- 9.3) Method Blank Summary 20
- 9.4) GS/MS Tune Summary 23
- 9.5) Internal Standard Area and RT Summary 27

10) Sample Data 33

- 10.1) 926-K1-WS-073124 34
- 10.2) 931-K1-WS-073124 45
- 10.3) 925-K1-WS-073124 54
- 10.4) 925-K1-WS-073124DL 68
- 10.5) TB-01-073124 78

11) Calibration Data Summary 86

- 11.1) Initial Calibration Data 87
  - 11.1.1) VN080724 87
- 11.2) Continued Calibration Data 457
  - 11.2.1) VN083225.D 457
  - 11.2.2) VN083246.D 516
  - 11.2.3) VN083295.D 575

12) QC Sample Data 634

- 12.1) Tune Raw Data 635
- 12.2) Method Blank Data 639
- 12.3) LCS Data 663
- 12.4) LCSD Data 825

13) Manual Integration 879

14) Analytical Runlogs 883

15) Standard Prep Logs 898

16) Shipping Document 1031
16.1) Chain Of Custody 1032
16.2) Lab Certificate 1033
16.3) Internal COC 1034

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

Cover Page

Order ID : P3429

Project ID : Former Schlumberger Site Princeton NJ

Client : JACOBS Engineering Group, Inc.

Lab Sample Number	Client Sample Number
P3429-01	926-K1-WS-073124
P3429-02	931-K1-WS-073124
P3429-03	925-K1-WS-073124
P3429-04	TB-01-073124

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: 8/15/2024

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 # P3429
Test Name: VOCMS Group6

A. Number of Samples and Date of Receipt:
4 Water samples were received on 07/31/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium, Mercury, Metals Group4, SVOC-SIMGroup1, SVOCMS Group3, SVOCMS Group6 and VOCMS Group6. This data package contains results for VOCMS Group6.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_N were done using GC column RXI-624SIL MS 30m 0.25mm 1.4 um. Cat#13868.The analysis of VOCMS Group6 was based on method 8260D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The 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 Initial Calibration met the requirements .
The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

Sample 925-K1-WS-073124 was diluted due to high concentration.

E. Additional Comments:
Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount

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

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: P3429 MATRIX: Water

METHOD: 8260D

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

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

NA NO YES

ADDITIONAL COMMENTS:

Sample 925-K1-WS-073124 was diluted due to high concentration.

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 #: P3429

	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: SOHIL JODHANI **Date:** 08/15/2024

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

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

LAB CHRONICLE

OrderID:	P3429	**OrderDate:**	7/31/2024 4:38:00 PM
Client:	JACOBS Engineering Group, Inc.	**Project:**	Former Schlumberger Site Princeton NJ
Contact:	Mary I. Murphy	**Location:**	D31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3429-01	**926-K1-WS-073124**	**Water**			**07/31/24**			**07/31/24**
			VOCMS Group6	8260-Low			08/12/24	
P3429-02	**931-K1-WS-073124**	**Water**			**07/31/24**			**07/31/24**
			VOCMS Group6	8260-Low			08/13/24	
P3429-03	**925-K1-WS-073124**	**Water**			**07/31/24**			**07/31/24**
			VOCMS Group6	8260-Low			08/13/24	
P3429-03DL	**925-K1-WS-073124DL**	**Water**			**07/31/24**			**07/31/24**
			VOCMS Group6	8260-Low			08/14/24	
P3429-04	**TB-01-073124**	**Water**			**07/31/24**			**07/31/24**
			VOCMS Group6	8260-Low			08/13/24	

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

Hit Summary Sheet
SW-846

SDG No.: P3429

Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**926-K1-WS-073124**							
P3429-01	926-K1-WS-073124	Water	Vinyl Chloride	23.1		0.34	1.00	ug/L
P3429-01	926-K1-WS-073124	Water	1,1,2-Trichlorotrifluoroethane	17.3		0.25	1.00	ug/L
P3429-01	926-K1-WS-073124	Water	Acetone	10.1		1.40	5.00	ug/L
P3429-01	926-K1-WS-073124	Water	cis-1,2-Dichloroethene	68.8		0.25	1.00	ug/L
P3429-01	926-K1-WS-073124	Water	Trichloroethene	1.40		0.32	1.00	ug/L
P3429-01	926-K1-WS-073124	Water	Toluene	0.64	J	0.18	1.00	ug/L
			Total Voc :	121				
			Total Concentration:	121				
Client ID:	**931-K1-WS-073124**							
P3429-02	931-K1-WS-073124	Water	Acetone	210		1.40	5.00	ug/L
P3429-02	931-K1-WS-073124	Water	Toluene	1.70		0.18	1.00	ug/L
			Total Voc :	212				
			Total Concentration:	212				
Client ID:	**925-K1-WS-073124**							
P3429-03	925-K1-WS-073124	Water	Vinyl Chloride	190	E	0.34	1.00	ug/L
P3429-03	925-K1-WS-073124	Water	1,1,2-Trichlorotrifluoroethane	50.7		0.25	1.00	ug/L
P3429-03	925-K1-WS-073124	Water	Acetone	12.4		1.40	5.00	ug/L
P3429-03	925-K1-WS-073124	Water	trans-1,2-Dichloroethene	7.60		0.25	1.00	ug/L
P3429-03	925-K1-WS-073124	Water	cis-1,2-Dichloroethene	1100	E	0.25	1.00	ug/L
P3429-03	925-K1-WS-073124	Water	Benzene	0.57	J	0.16	1.00	ug/L
P3429-03	925-K1-WS-073124	Water	Trichloroethene	7.80		0.32	1.00	ug/L
P3429-03	925-K1-WS-073124	Water	Toluene	1.10		0.18	1.00	ug/L
P3429-03	925-K1-WS-073124	Water	Chlorobenzene	0.26	J	0.13	1.00	ug/L
			Total Voc :	1370				
			Total Concentration:	1370				
Client ID:	**925-K1-WS-073124DL**							
P3429-03DL	925-K1-WS-073124	Water	Vinyl Chloride	220	D	6.80	20.0	ug/L
P3429-03DL	925-K1-WS-073124	Water	1,1,2-Trichlorotrifluoroethane	62.2	D	5.00	20.0	ug/L
P3429-03DL	925-K1-WS-073124	Water	cis-1,2-Dichloroethene	1100	D	5.00	20.0	ug/L
P3429-03DL	925-K1-WS-073124	Water	Trichloroethene	10.1	JD	6.40	20.0	ug/L
			Total Voc :	1390				
			Total Concentration:	1390				

QC SUMMARY

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

Surrogate Summary

SDG No.: P3429

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P3429-01	926-K1-WS-073124	1,2-Dichloroethane-d4	50	56.9	114	70 (74)	130 (125)
		Dibromofluoromethane	50	53.3	107	70 (75)	130 (124)
		Toluene-d8	50	53.5	107	70 (86)	130 (113)
		4-Bromofluorobenzene	50	56.3	113	70 (77)	130 (121)
P3429-02	931-K1-WS-073124	1,2-Dichloroethane-d4	50	56.9	114	70 (74)	130 (125)
		Dibromofluoromethane	50	54.6	109	70 (75)	130 (124)
		Toluene-d8	50	55.5	111	70 (86)	130 (113)
		4-Bromofluorobenzene	50	59.3	119	70 (77)	130 (121)
P3429-03	925-K1-WS-073124	1,2-Dichloroethane-d4	50	57.2	114	70 (74)	130 (125)
		Dibromofluoromethane	50	53.9	108	70 (75)	130 (124)
		Toluene-d8	50	53.4	107	70 (86)	130 (113)
		4-Bromofluorobenzene	50	54.5	109	70 (77)	130 (121)
P3429-03DL	925-K1-WS-073124DL	1,2-Dichloroethane-d4	50	56.4	113	70 (74)	130 (125)
		Dibromofluoromethane	50	52.7	105	70 (75)	130 (124)
		Toluene-d8	50	53.1	106	70 (86)	130 (113)
		4-Bromofluorobenzene	50	57.4	115	70 (77)	130 (121)
P3429-04	TB-01-073124	1,2-Dichloroethane-d4	50	55.8	112	70 (74)	130 (125)
		Dibromofluoromethane	50	52.1	104	70 (75)	130 (124)
		Toluene-d8	50	53.2	106	70 (86)	130 (113)
		4-Bromofluorobenzene	50	57.4	115	70 (77)	130 (121)
VN0812WBL01	VN0812WBL01	1,2-Dichloroethane-d4	50	56.6	113	70 (74)	130 (125)
		Dibromofluoromethane	50	53.6	107	70 (75)	130 (124)
		Toluene-d8	50	53.9	108	70 (86)	130 (113)
		4-Bromofluorobenzene	50	59.1	118	70 (77)	130 (121)
VN0812WBS01	VN0812WBS01	1,2-Dichloroethane-d4	50	54.1	108	70 (74)	130 (125)
		Dibromofluoromethane	50	52.1	104	70 (75)	130 (124)
		Toluene-d8	50	51.9	104	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.9	100	70 (77)	130 (121)
VN0812WBSD0	VN0812WBSD01	1,2-Dichloroethane-d4	50	48.8	98	70 (74)	130 (125)
		Dibromofluoromethane	50	46.0	92	70 (75)	130 (124)
		Toluene-d8	50	46.4	93	70 (86)	130 (113)
		4-Bromofluorobenzene	50	45.3	91	70 (77)	130 (121)
VN0813WBL01	VN0813WBL01	1,2-Dichloroethane-d4	50	56.2	112	70 (74)	130 (125)
		Dibromofluoromethane	50	52.5	105	70 (75)	130 (124)
		Toluene-d8	50	53.1	106	70 (86)	130 (113)
		4-Bromofluorobenzene	50	56.5	113	70 (77)	130 (121)
VN0813WBS01	VN0813WBS01	1,2-Dichloroethane-d4	50	48.6	97	70 (74)	130 (125)
		Dibromofluoromethane	50	47.4	95	70 (75)	130 (124)
		Toluene-d8	50	46.7	93	70 (86)	130 (113)
		4-Bromofluorobenzene	50	45.5	91	70 (77)	130 (121)
VN0814WBL01	VN0814WBL01	1,2-Dichloroethane-d4	50	55.6	111	70 (74)	130 (125)
		Dibromofluoromethane	50	53.1	106	70 (75)	130 (124)
		Toluene-d8	50	54.2	108	70 (86)	130 (113)
		4-Bromofluorobenzene	50	56.3	113	70 (77)	130 (121)
VN0814WBS01	VN0814WBS01	1,2-Dichloroethane-d4	50	56.3	113	70 (74)	130 (125)
		Dibromofluoromethane	50	54.0	108	70 (75)	130 (124)
		Toluene-d8	50	53.1	106	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.3	105	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.: P3429

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low **Datafile :** VN083228.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0812WBS01	Dichlorodifluoromethane	20	16.4	ug/L	82			40 (69)	160 (116)	
	Chloromethane	20	16.4	ug/L	82			40 (65)	160 (116)	
	Vinyl chloride	20	17.1	ug/L	86			70 (65)	130 (117)	
	Bromomethane	20	17.4	ug/L	87			40 (58)	160 (125)	
	1,1,2-Trichlorotrifluoroethane	20	16.8	ug/L	84			70 (80)	130 (112)	
	Acetone	100	83.8	ug/L	84			40 (60)	160 (125)	
	Carbon disulfide	20	14.5	ug/L	73			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	16.8	ug/L	84			70 (78)	130 (114)	
	Methylene Chloride	20	15.9	ug/L	79			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	16.5	ug/L	83			70 (75)	130 (108)	
	Cyclohexane	20	16.3	ug/L	81			70 (75)	130 (110)	
	2-Butanone	100	81.0	ug/L	81			40 (65)	160 (122)	
	Carbon Tetrachloride	20	17.2	ug/L	86			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	16.5	ug/L	83			70 (77)	130 (110)	
	Chloroform	20	17.5	ug/L	88			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	17.3	ug/L	86			70 (80)	130 (108)	
	Methylcyclohexane	20	16.2	ug/L	81			70 (72)	130 (115)	
	Benzene	20	17.1	ug/L	86			70 (82)	130 (109)	
	1,2-Dichloroethane	20	18.3	ug/L	92			70 (80)	130 (115)	
	Trichloroethene	20	17.2	ug/L	86			70 (77)	130 (113)	
	Bromodichloromethane	20	16.9	ug/L	85			70 (83)	130 (110)	
	Toluene	20	17.2	ug/L	86			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	17.6	ug/L	88			70 (83)	130 (112)	
	Dibromochloromethane	20	17.3	ug/L	86			70 (82)	130 (110)	
	Tetrachloroethene	20	17.3	ug/L	86			70 (67)	130 (123)	
	Chlorobenzene	20	17.1	ug/L	86			70 (82)	130 (109)	
	Ethyl Benzene	20	16.9	ug/L	85			70 (83)	130 (109)	
	m/p-Xylenes	40	33.9	ug/L	85			70 (82)	130 (110)	
	o-Xylene	20	17.0	ug/L	85			70 (83)	130 (109)	
	Isopropylbenzene	20	17.2	ug/L	86			70 (83)	130 (112)	
	1,4-Dichlorobenzene	20	16.6	ug/L	83			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	16.9	ug/L	85			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.: P3429

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low **Datafile :** VN083229.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN0812WBSD01	Dichlorodifluoromethane	20	18.7	ug/L	94	14		40 (69)	160 (116)	20 (20)
	Chloromethane	20	18.0	ug/L	90	9		40 (65)	160 (116)	20 (20)
	Vinyl chloride	20	18.6	ug/L	93	8		70 (65)	130 (117)	20 (20)
	Bromomethane	20	19.2	ug/L	96	10		40 (58)	160 (125)	20 (20)
	1,1,2-Trichlorotrifluoroethane	20	19.3	ug/L	97	14		70 (80)	130 (112)	20 (20)
	Acetone	100	97.8	ug/L	98	15		40 (60)	160 (125)	20 (20)
	Carbon disulfide	20	16.5	ug/L	83	13		40 (64)	160 (112)	20 (20)
	Methyl tert-butyl Ether	20	18.5	ug/L	93	10		70 (78)	130 (114)	20 (20)
	Methylene Chloride	20	17.3	ug/L	86	8		70 (72)	130 (114)	20 (20)
	trans-1,2-Dichloroethene	20	17.4	ug/L	87	5		70 (75)	130 (108)	20 (20)
	Cyclohexane	20	17.1	ug/L	86	6		70 (75)	130 (110)	20 (20)
	2-Butanone	100	91.7	ug/L	92	13		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	19.0	ug/L	95	10		70 (77)	130 (113)	20 (20)
	cis-1,2-Dichloroethene	20	18.4	ug/L	92	10		70 (77)	130 (110)	20 (20)
	Chloroform	20	19.3	ug/L	97	10		70 (79)	130 (113)	20 (20)
	1,1,1-Trichloroethane	20	19.2	ug/L	96	11		70 (80)	130 (108)	20 (20)
	Methylcyclohexane	20	18.1	ug/L	91	12		70 (72)	130 (115)	20 (20)
	Benzene	20	18.7	ug/L	94	9		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	19.7	ug/L	99	7		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	19.2	ug/L	96	11		70 (77)	130 (113)	20 (20)
	Bromodichloromethane	20	18.3	ug/L	92	8		70 (83)	130 (110)	20 (20)
	Toluene	20	18.8	ug/L	94	9		70 (82)	130 (110)	20 (20)
	1,1,2-Trichloroethane	20	19.4	ug/L	97	10		70 (83)	130 (112)	20 (20)
	Dibromochloromethane	20	18.8	ug/L	94	9		70 (82)	130 (110)	20 (20)
	Tetrachloroethene	20	18.7	ug/L	94	9		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	18.6	ug/L	93	8		70 (82)	130 (109)	20 (20)
	Ethyl Benzene	20	18.6	ug/L	93	9		70 (83)	130 (109)	20 (20)
	m/p-Xylenes	40	37.3	ug/L	93	9		70 (82)	130 (110)	20 (20)
	o-Xylene	20	18.7	ug/L	94	10		70 (83)	130 (109)	20 (20)
	Isopropylbenzene	20	18.4	ug/L	92	7		70 (83)	130 (112)	20 (20)
	1,4-Dichlorobenzene	20	18.2	ug/L	91	9		70 (82)	130 (107)	20 (20)
	1,2-Dichlorobenzene	20	18.2	ug/L	91	7		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.: P3429

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low **Datafile :** VN083249.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0813WBS01	Dichlorodifluoromethane	20	17.1	ug/L	86			40 (69)	160 (116)	
	Chloromethane	20	17.1	ug/L	86			40 (65)	160 (116)	
	Vinyl chloride	20	18.1	ug/L	91			70 (65)	130 (117)	
	Bromomethane	20	18.2	ug/L	91			40 (58)	160 (125)	
	1,1,2-Trichlorotrifluoroethane	20	18.5	ug/L	93			70 (80)	130 (112)	
	Acetone	100	90.0	ug/L	90			40 (60)	160 (125)	
	Carbon disulfide	20	15.1	ug/L	76			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	17.4	ug/L	87			70 (78)	130 (114)	
	Methylene Chloride	20	16.9	ug/L	85			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	16.6	ug/L	83			70 (75)	130 (108)	
	Cyclohexane	20	17.0	ug/L	85			70 (75)	130 (110)	
	2-Butanone	100	85.3	ug/L	85			40 (65)	160 (122)	
	Carbon Tetrachloride	20	18.0	ug/L	90			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	17.3	ug/L	86			70 (77)	130 (110)	
	Chloroform	20	18.8	ug/L	94			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	17.9	ug/L	90			70 (80)	130 (108)	
	Methylcyclohexane	20	16.9	ug/L	85			70 (72)	130 (115)	
	Benzene	20	17.8	ug/L	89			70 (82)	130 (109)	
	1,2-Dichloroethane	20	18.8	ug/L	94			70 (80)	130 (115)	
	Trichloroethene	20	17.6	ug/L	88			70 (77)	130 (113)	
	Bromodichloromethane	20	18.0	ug/L	90			70 (83)	130 (110)	
	Toluene	20	17.7	ug/L	89			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	18.8	ug/L	94			70 (83)	130 (112)	
	Dibromochloromethane	20	18.3	ug/L	92			70 (82)	130 (110)	
	Tetrachloroethene	20	18.0	ug/L	90			70 (67)	130 (123)	
	Chlorobenzene	20	17.8	ug/L	89			70 (82)	130 (109)	
	Ethyl Benzene	20	17.9	ug/L	90			70 (83)	130 (109)	
	m/p-Xylenes	40	35.7	ug/L	89			70 (82)	130 (110)	
	o-Xylene	20	17.8	ug/L	89			70 (83)	130 (109)	
	Isopropylbenzene	20	18.1	ug/L	91			70 (83)	130 (112)	
	1,4-Dichlorobenzene	20	17.8	ug/L	89			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	17.7	ug/L	89			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.: P3429

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low **Datafile :** VN083298.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0814WBS01	Dichlorodifluoromethane	20	18.6	ug/L	93			40 (69)	160 (116)	
	Chloromethane	20	19.1	ug/L	96			40 (65)	160 (116)	
	Vinyl chloride	20	20.2	ug/L	101			70 (65)	130 (117)	
	Bromomethane	20	18.6	ug/L	93			40 (58)	160 (125)	
	1,1,2-Trichlorotrifluoroethane	20	20.8	ug/L	104			70 (80)	130 (112)	
	Acetone	100	100	ug/L	100			40 (60)	160 (125)	
	Carbon disulfide	20	16.3	ug/L	81			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	20.0	ug/L	100			70 (78)	130 (114)	
	Methylene Chloride	20	19.0	ug/L	95			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	18.7	ug/L	94			70 (75)	130 (108)	
	Cyclohexane	20	18.5	ug/L	93			70 (75)	130 (110)	
	2-Butanone	100	100	ug/L	100			40 (65)	160 (122)	
	Carbon Tetrachloride	20	20.1	ug/L	101			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	19.6	ug/L	98			70 (77)	130 (110)	
	Chloroform	20	21.3	ug/L	106			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	20.7	ug/L	104			70 (80)	130 (108)	
	Methylcyclohexane	20	18.2	ug/L	91			70 (72)	130 (115)	
	Benzene	20	20.4	ug/L	102			70 (82)	130 (109)	
	1,2-Dichloroethane	20	21.5	ug/L	108			70 (80)	130 (115)	
	Trichloroethene	20	20.1	ug/L	101			70 (77)	130 (113)	
	Bromodichloromethane	20	20.7	ug/L	104			70 (83)	130 (110)	
	Toluene	20	20.3	ug/L	102			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	21.5	ug/L	108			70 (83)	130 (112)	
	Dibromochloromethane	20	20.6	ug/L	103			70 (82)	130 (110)	
	Tetrachloroethene	20	19.6	ug/L	98			70 (67)	130 (123)	
	Chlorobenzene	20	19.8	ug/L	99			70 (82)	130 (109)	
	Ethyl Benzene	20	19.6	ug/L	98			70 (83)	130 (109)	
	m/p-Xylenes	40	38.6	ug/L	97			70 (82)	130 (110)	
	o-Xylene	20	19.5	ug/L	98			70 (83)	130 (109)	
	Isopropylbenzene	20	19.3	ug/L	97			70 (83)	130 (112)	
	1,4-Dichlorobenzene	20	19.1	ug/L	96			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.

VN0812WBL01

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3429 SAS No.: P3429 SDG NO.: P3429

Lab File ID: VN083227.D Lab Sample ID: VN0812WBL01

Date Analyzed: 08/12/2024 Time Analyzed: 10:46

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
VN0812WBS01	VN0812WBS01	VN083228.D	08/12/2024
VN0812WBSD01	VN0812WBSD01	VN083229.D	08/12/2024
926-K1-WS-073124	P3429-01	VN083244.D	08/12/2024

COMMENTS:

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

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0813WBL01

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3429 SAS No.: P3429 SDG NO.: P3429

Lab File ID: VN083248.D Lab Sample ID: VN0813WBL01

Date Analyzed: 08/13/2024 Time Analyzed: 11:16

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
VN0813WBS01	VN0813WBS01	VN083249.D	08/13/2024
931-K1-WS-073124	P3429-02	VN083250.D	08/13/2024
TB-01-073124	P3429-04	VN083256.D	08/13/2024
925-K1-WS-073124	P3429-03	VN083269.D	08/13/2024

COMMENTS:

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

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0814WBL01

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3429 SAS No.: P3429 SDG NO.: P3429

Lab File ID: VN083297.D Lab Sample ID: VN0814WBL01

Date Analyzed: 08/14/2024 Time Analyzed: 13:39

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
VN0814WBS01	VN0814WBS01	VN083298.D	08/14/2024
925-K1-WS-073124DL	P3429-03DL	VN083299.D	08/14/2024

COMMENTS:

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.: P3429 SAS No.: P3429 SDG NO.: P3429

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

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.: P3429 SAS No.: P3429 SDG NO.: P3429

Lab File ID: VN083224.D BFB Injection Date: 08/12/2024

Instrument ID: MSVOA_N BFB Injection Time: 08:44

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	21
75	30.0 - 60.0% of mass 95	58.2
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	0.3 (0.4) 1
174	50.0 - 100.0% of mass 95	68.4
175	5.0 - 9.0% of mass 174	5.3 (7.7) 1
176	95.0 - 101.0% of mass 174	67 (97.9) 1
177	5.0 - 9.0% of mass 176	3.8 (5.6) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN083225.D	08/12/2024	09:48
VN0812WBL01	VN0812WBL01	VN083227.D	08/12/2024	10:46
VN0812WBS01	VN0812WBS01	VN083228.D	08/12/2024	11:10
VN0812WBSD01	VN0812WBSD01	VN083229.D	08/12/2024	11:46
926-K1-WS-073124	P3429-01	VN083244.D	08/12/2024	17:49

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.: P3429 SAS No.: P3429 SDG NO.: P3429

Lab File ID: VN083245.D BFB Injection Date: 08/13/2024

Instrument ID: MSVOA_N BFB Injection Time: 09:54

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	19.8
75	30.0 - 60.0% of mass 95	55.6
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	0.4 (0.6) 1
174	50.0 - 100.0% of mass 95	69.5
175	5.0 - 9.0% of mass 174	5.3 (7.6) 1
176	95.0 - 101.0% of mass 174	67 (96.5) 1
177	5.0 - 9.0% of mass 176	4.1 (6.1) 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	VN083246.D	08/13/2024	10:18
VN0813WBL01	VN0813WBL01	VN083248.D	08/13/2024	11:16
VN0813WBS01	VN0813WBS01	VN083249.D	08/13/2024	11:40
931-K1-WS-073124	P3429-02	VN083250.D	08/13/2024	12:06
TB-01-073124	P3429-04	VN083256.D	08/13/2024	14:31
925-K1-WS-073124	P3429-03	VN083269.D	08/13/2024	19:45

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.: P3429 SAS No.: P3429 SDG NO.: P3429

Lab File ID: VN083294.D BFB Injection Date: 08/14/2024

Instrument ID: MSVOA_N BFB Injection Time: 12:07

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	54.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.5 (0.8) 1
174	50.0 - 100.0% of mass 95	70.5
175	5.0 - 9.0% of mass 174	5.2 (7.4) 1
176	95.0 - 101.0% of mass 174	67.6 (95.9) 1
177	5.0 - 9.0% of mass 176	4.7 (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	VN083295.D	08/14/2024	12:41
VN0814WBL01	VN0814WBL01	VN083297.D	08/14/2024	13:39
VN0814WBS01	VN0814WBS01	VN083298.D	08/14/2024	14:03
925-K1-WS-073124DL	P3429-03DL	VN083299.D	08/14/2024	14:27

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.: P3429 SAS No.: P3429 SDG NO.: P3429

Lab File ID: VN083225.D Date Analyzed: 08/12/2024

Instrument ID: MSVOA_N Time Analyzed: 09:48

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	179688	8.22	304896	9.10	267164	11.87
UPPER LIMIT	359376	8.724	609792	9.6	534328	12.365
LOWER LIMIT	89844	7.724	152448	8.6	133582	11.365
EPA SAMPLE NO.						
926-K1-WS-073124	132573	8.23	252049	9.10	255948	11.87
VN0812WBL01	155185	8.22	297997	9.10	309712	11.87
VN0812WBS01	193104	8.22	331101	9.10	283776	11.87
VN0812WBSD01	186747	8.22	319813	9.10	275661	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.: P3429 SAS No.: P3429 SDG NO.: P3429

Lab File ID: VN083225.D Date Analyzed: 08/12/2024

Instrument ID: MSVOA_N Time Analyzed: 09:48

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

	IS4 AREA #	RT #				
12 HOUR STD	128278	13.788				
UPPER LIMIT	256556	14.288				
LOWER LIMIT	64139	13.288				
EPA SAMPLE NO.						
926-K1-WS-073124	111123	13.79				
VN0812WBL01	137198	13.79				
VN0812WBS01	130523	13.79				
VN0812WBSD01	129761	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.: P3429 SAS No.: P3429 SDG NO.: P3429

Lab File ID: VN083246.D Date Analyzed: 08/13/2024

Instrument ID: MSVOA_N Time Analyzed: 10:18

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	178090	8.22	308255	9.10	271780	11.87
UPPER LIMIT	356180	8.724	616510	9.6	543560	12.365
LOWER LIMIT	89045	7.724	154128	8.6	135890	11.365
EPA SAMPLE NO.						
931-K1-WS-073124	136049	8.22	260779	9.10	272432	11.87
925-K1-WS-073124	131513	8.22	255536	9.10	257054	11.87
TB-01-073124	147065	8.22	284471	9.10	291862	11.87
VN0813WBL01	151482	8.22	289244	9.10	291555	11.87
VN0813WBS01	178353	8.22	306441	9.10	263797	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.: P3429 SAS No.: P3429 SDG NO.: P3429

Lab File ID: VN083246.D Date Analyzed: 08/13/2024

Instrument ID: MSVOA_N Time Analyzed: 10:18

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

	IS4 AREA #	RT #				
12 HOUR STD	132143	13.794				
UPPER LIMIT	264286	14.294				
LOWER LIMIT	66071.5	13.294				
EPA SAMPLE NO.						
931-K1-WS-073124	121082	13.79				
925-K1-WS-073124	110153	13.79				
TB-01-073124	130851	13.79				
VN0813WBL01	128023	13.79				
VN0813WBS01	120363	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.: P3429 SAS No.: P3429 SDG NO.: P3429

Lab File ID: VN083295.D Date Analyzed: 08/14/2024

Instrument ID: MSVOA_N Time Analyzed: 12:41

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	165534	8.22	282606	9.10	250996	11.87
UPPER LIMIT	331068	8.724	565212	9.6	501992	12.365
LOWER LIMIT	82767	7.724	141303	8.6	125498	11.365
EPA SAMPLE NO.						
925-K1-WS-073124DL	130132	8.22	253353	9.10	260285	11.87
VN0814WBL01	145129	8.23	276647	9.10	286871	11.87
VN0814WBS01	164632	8.22	284346	9.10	250581	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.: P3429 SAS No.: P3429 SDG NO.: P3429

Lab File ID: VN083295.D Date Analyzed: 08/14/2024

Instrument ID: MSVOA_N Time Analyzed: 12:41

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

	IS4 AREA #	RT #				
12 HOUR STD	122669	13.794				
UPPER LIMIT	245338	14.294				
LOWER LIMIT	61334.5	13.294				
EPA SAMPLE NO.						
925-K1-WS-073124DL	115317	13.79				
VN0814WBL01	128230	13.79				
VN0814WBS01	117869	13.79				

IS4 = 1,4-Dichlorobenzene-d4

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

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

SAMPLE DATA

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:	07/31/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	07/31/24
Client Sample ID:	926-K1-WS-073124	SDG No.:	P3429
Lab Sample ID:	P3429-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group6
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083244.D	1		08/12/24 17:49	VN081224

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	23.1		0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	17.3		0.25	1.00	ug/L
67-64-1	Acetone	10.1		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
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	68.8		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	1.40		0.32	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-88-3	Toluene	0.64	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
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

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:	07/31/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	07/31/24
Client Sample ID:	926-K1-WS-073124	SDG No.:	P3429
Lab Sample ID:	P3429-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group6
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083244.D	1		08/12/24 17:49	VN081224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.9		70 (74) - 130 (125)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	53.3		70 (75) - 130 (124)	107%	SPK: 50
2037-26-5	Toluene-d8	53.5		70 (86) - 130 (113)	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.3		70 (77) - 130 (121)	113%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	133000	8.23			
540-36-3	1,4-Difluorobenzene	252000	9.1			
3114-55-4	Chlorobenzene-d5	256000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	111000	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\VN081224\
Data File : VN083244.D
Acq On : 12 Aug 2024 17:49
Operator : JC\MD
Sample : P3429-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
926-K1-WS-073124

Quant Time: Aug 13 04:23:29 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

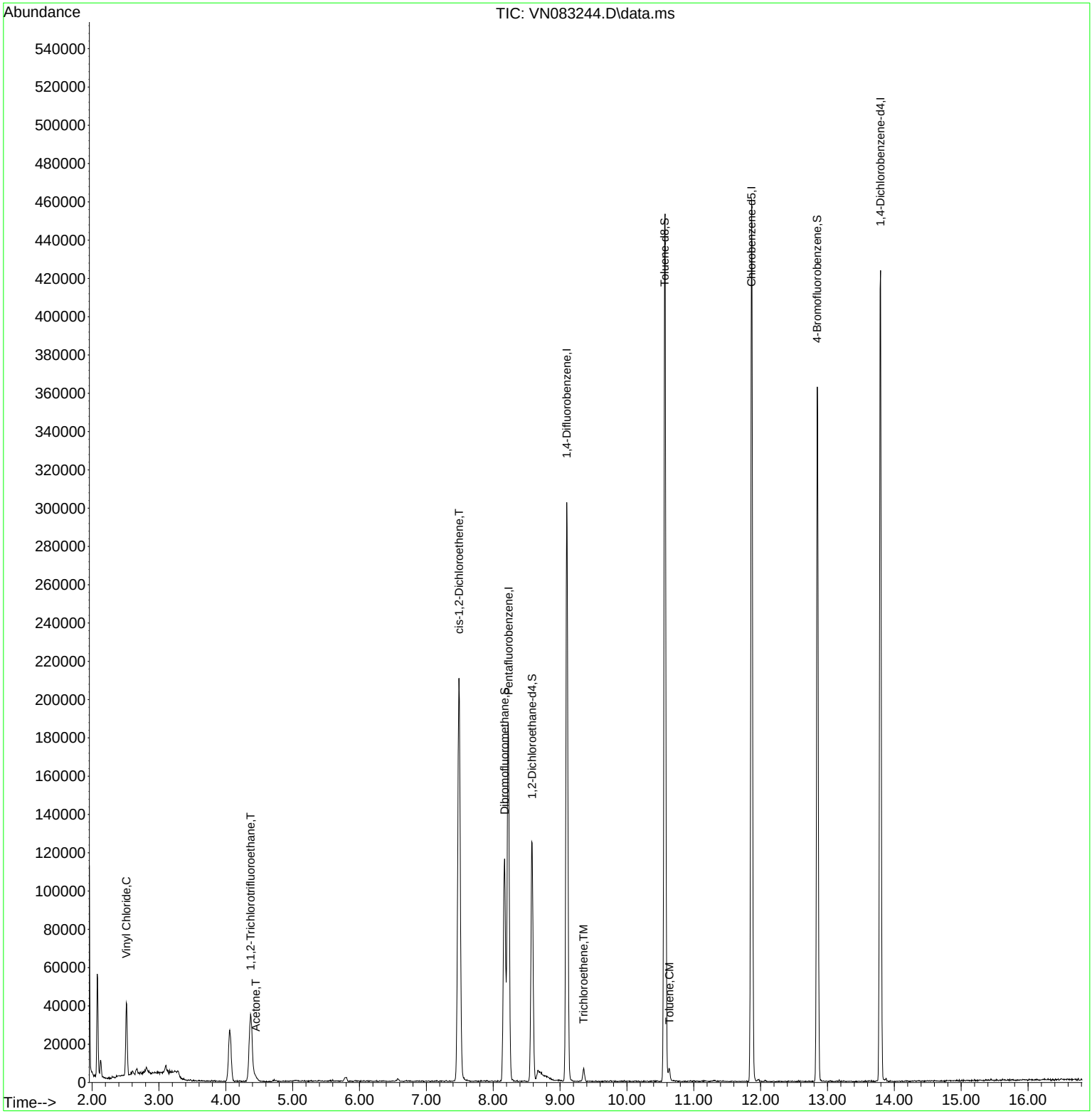
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	132573	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	252049	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	255948	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	111123	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	107359	56.893	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 113.780%			
35) Dibromofluoromethane	8.171	113	83806	53.270	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.540%			
50) Toluene-d8	10.565	98	314255	53.549	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 107.100%			
62) 4-Bromofluorobenzene	12.847	95	128801	56.297	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 112.600%			
Target Compounds						Qvalue
4) Vinyl Chloride	2.512	62	36262	23.089	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	24806	17.341	ug/l	97
16) Acetone	4.447	43	7480	10.130	ug/l #	88
27) cis-1,2-Dichloroethene	7.488	96	126110	68.805	ug/l	83
44) Trichloroethene	9.353	130	2389	1.416	ug/l	98
52) Toluene	10.635	92	2848	0.636	ug/l	94

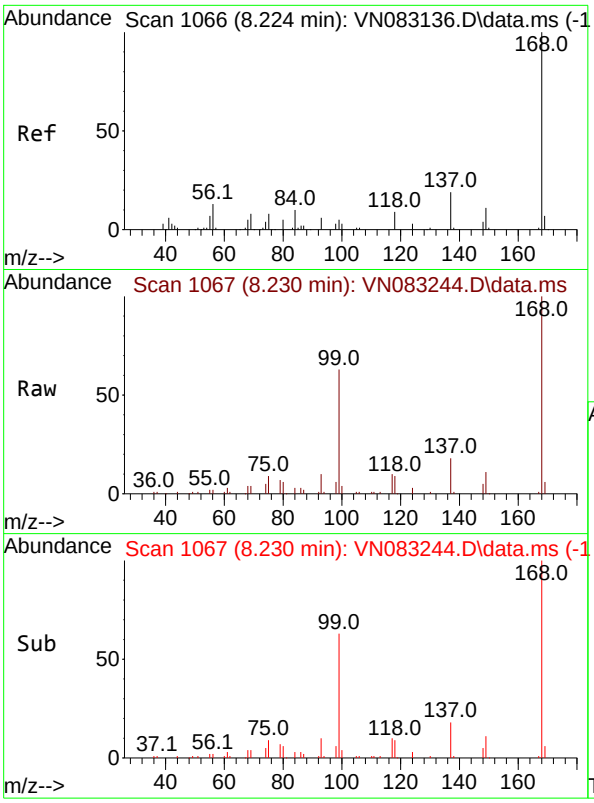
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081224\
Data File : VN083244.D
Acq On : 12 Aug 2024 17:49
Operator : JC\MD
Sample : P3429-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
926-K1-WS-073124

Quant Time: Aug 13 04:23:29 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



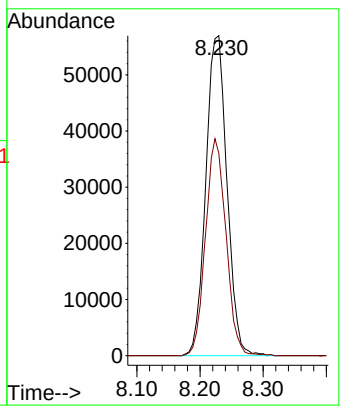


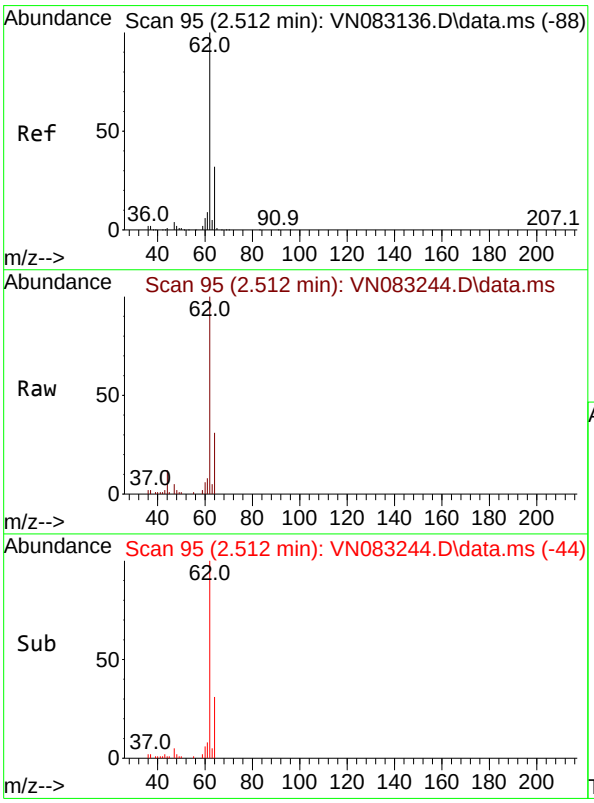
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083244.D
Acq: 12 Aug 2024 17:49

Instrument :
MSVOA_N
ClientSampleId :
926-K1-WS-073124

Tgt Ion:168 Resp: 132573

Ion	Ratio	Lower	Upper
168	100		
99	63.2	48.2	72.4

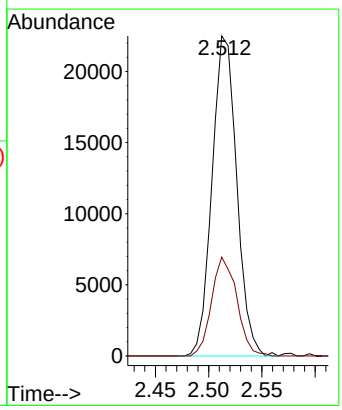


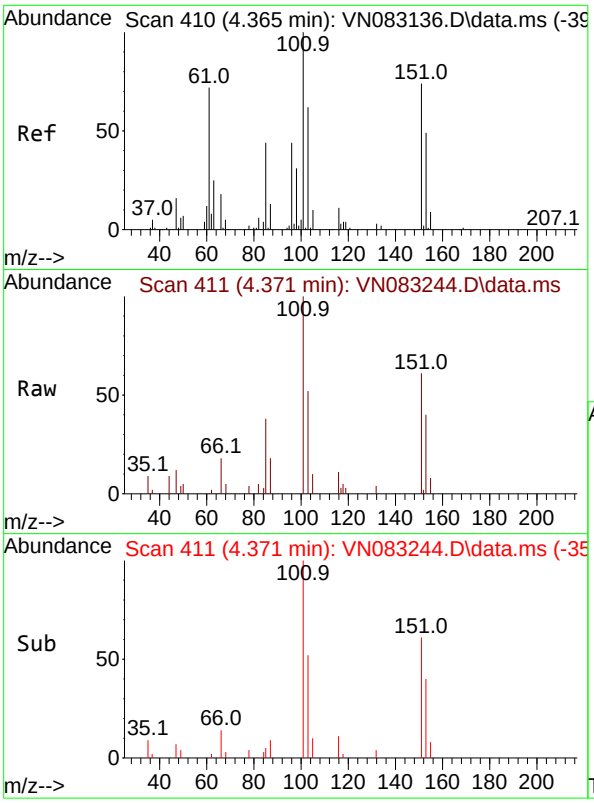


#4
Vinyl Chloride
Concen: 23.089 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN083244.D
Acq: 12 Aug 2024 17:49

Tgt Ion: 62 Resp: 36262

Ion	Ratio	Lower	Upper
62	100		
64	30.9	25.0	37.6



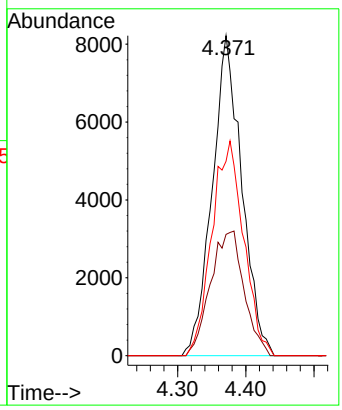


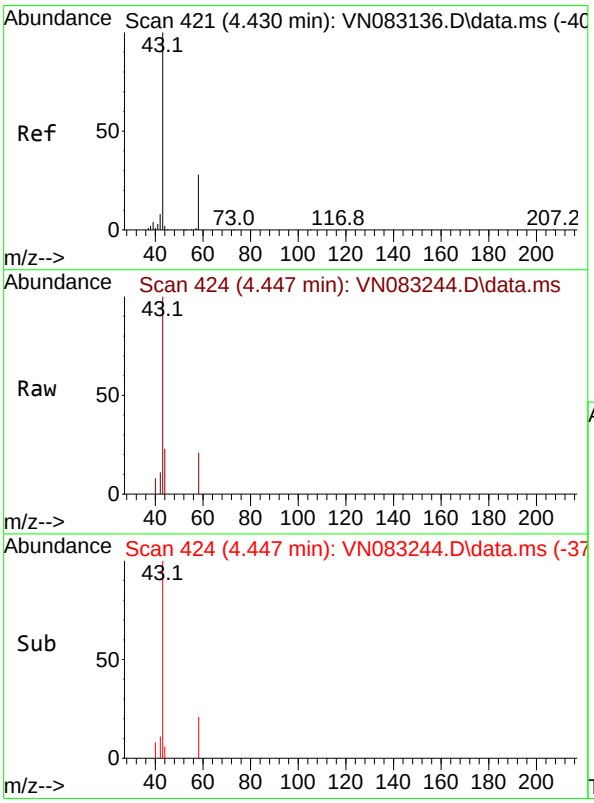
#9
1,1,2-Trichlorotrifluoroethane
Concen: 17.341 ug/l
RT: 4.371 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN083244.D
Acq: 12 Aug 2024 17:49

Instrument :
MSVOA_N
ClientSampleId :
926-K1-WS-073124

Tgt Ion:101 Resp: 24806

Ion	Ratio	Lower	Upper
101	100		
85	44.2	38.3	57.5
151	72.2	59.3	88.9

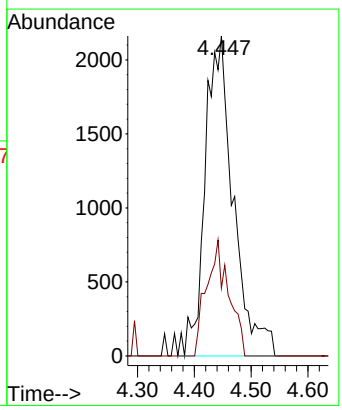


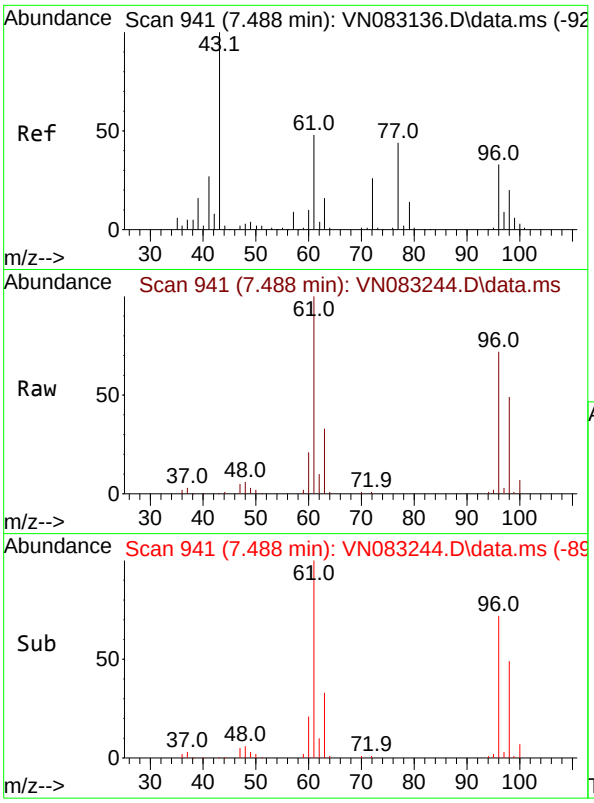


#16
Acetone
Concen: 10.130 ug/l
RT: 4.447 min Scan# 424
Delta R.T. 0.018 min
Lab File: VN083244.D
Acq: 12 Aug 2024 17:49

Tgt Ion: 43 Resp: 7480

Ion	Ratio	Lower	Upper
43	100		
58	21.2	21.8	32.6#



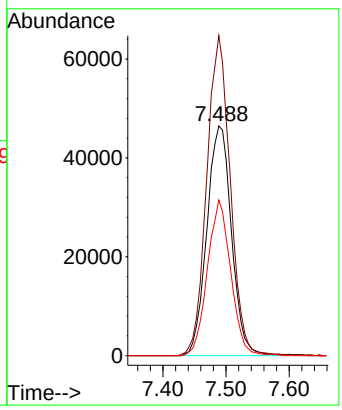


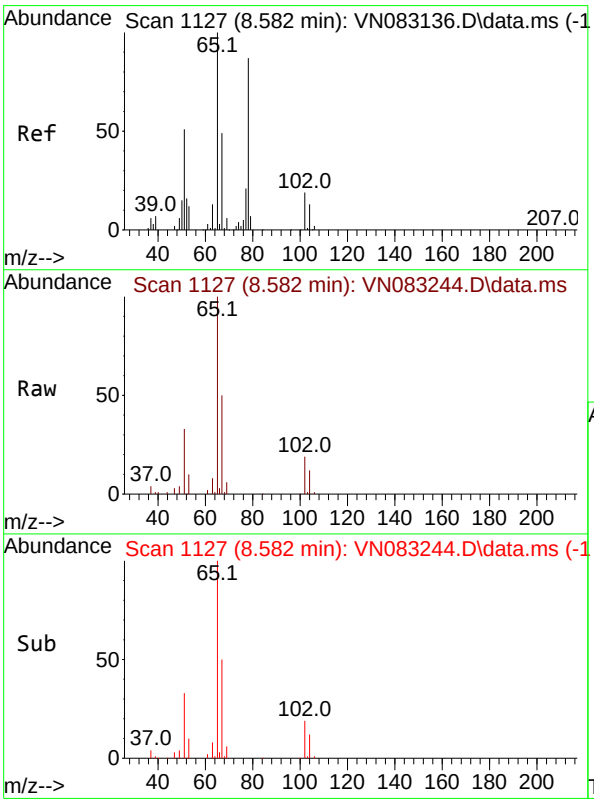
#27
cis-1,2-Dichloroethene
Concen: 68.805 ug/l
RT: 7.488 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN083244.D
Acq: 12 Aug 2024 17:49

Instrument :
MSVOA_N
ClientSampleId :
926-K1-WS-073124

Tgt Ion: 96 Resp: 126110

Ion	Ratio	Lower	Upper
96	100		
61	133.1	0.0	329.6
98	63.8	0.0	128.6

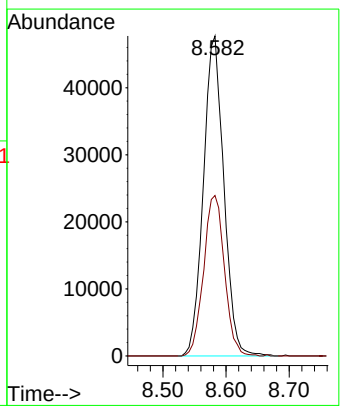


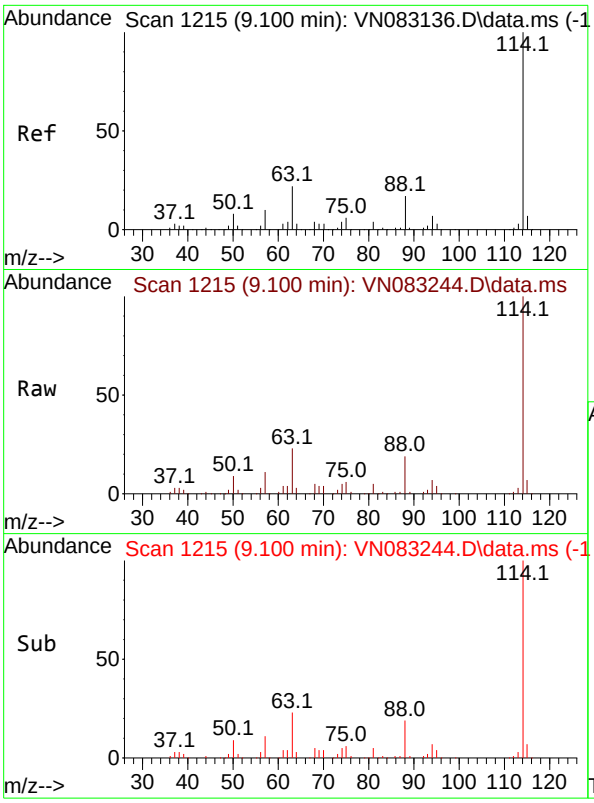


#33
1,2-Dichloroethane-d4
Concen: 56.893 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.000 min
Lab File: VN083244.D
Acq: 12 Aug 2024 17:49

Tgt Ion: 65 Resp: 107359

Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	104.4



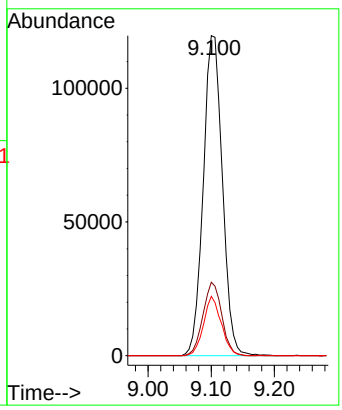


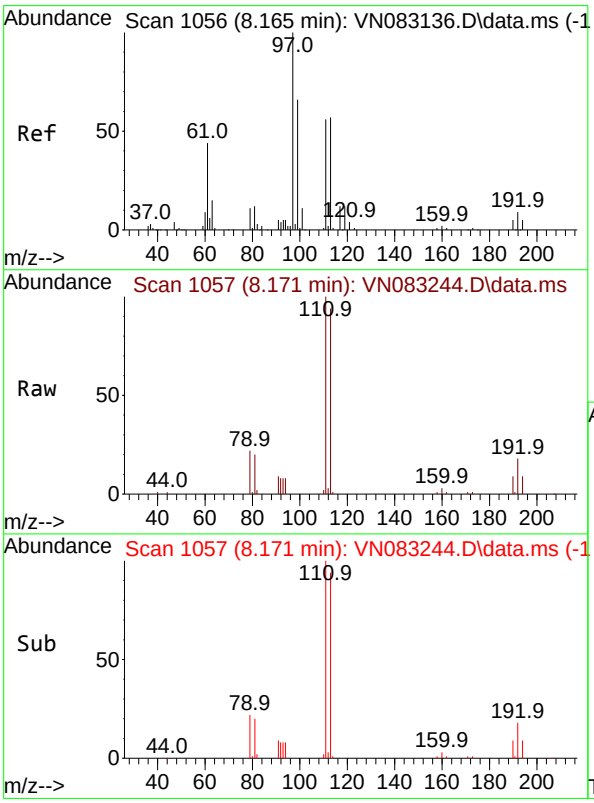
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083244.D
Acq: 12 Aug 2024 17:49

Instrument :
MSVOA_N
ClientSampleId :
926-K1-WS-073124

Tgt Ion:114 Resp: 252049

Ion	Ratio	Lower	Upper
114	100		
63	23.0	0.0	44.6
88	18.6	0.0	31.4

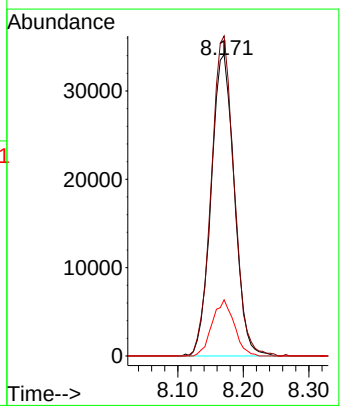


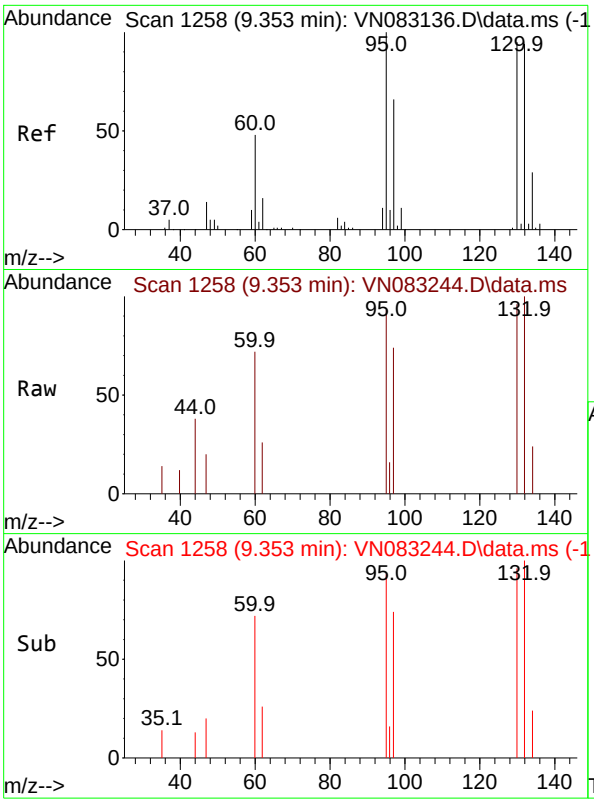


#35
Dibromofluoromethane
Concen: 53.270 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN083244.D
Acq: 12 Aug 2024 17:49

Tgt Ion:113 Resp: 83806

Ion	Ratio	Lower	Upper
113	100		
111	104.2	82.4	123.6
192	17.6	14.9	22.3



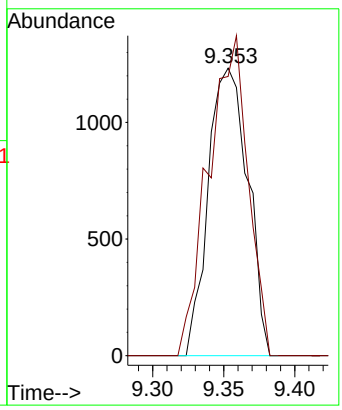


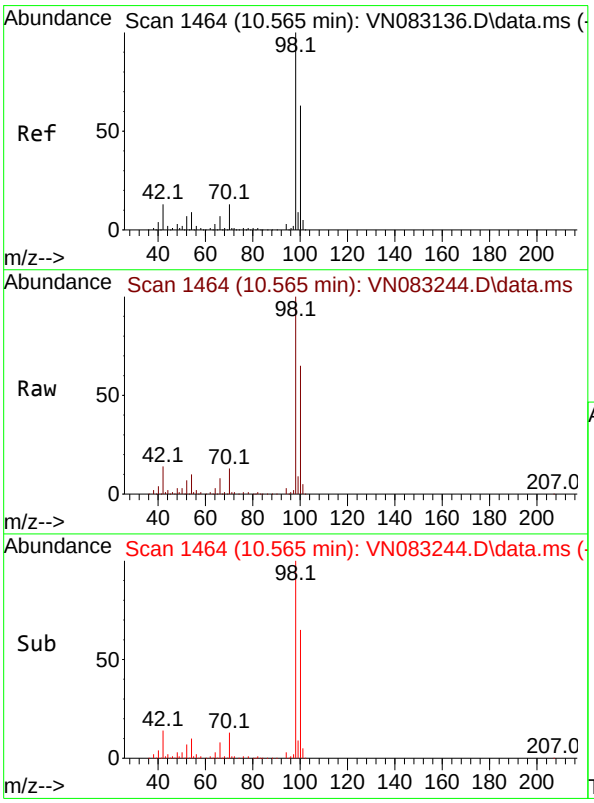
#44
Trichloroethene
Concen: 1.416 ug/l
RT: 9.353 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083244.D
Acq: 12 Aug 2024 17:49

Instrument :
MSVOA_N
ClientSampleId :
926-K1-WS-073124

Tgt Ion:130 Resp: 2389

Ion	Ratio	Lower	Upper
130	100		
95	97.1	0.0	197.8

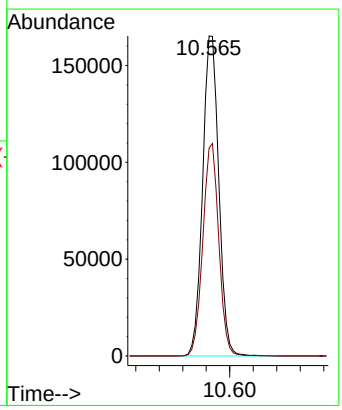


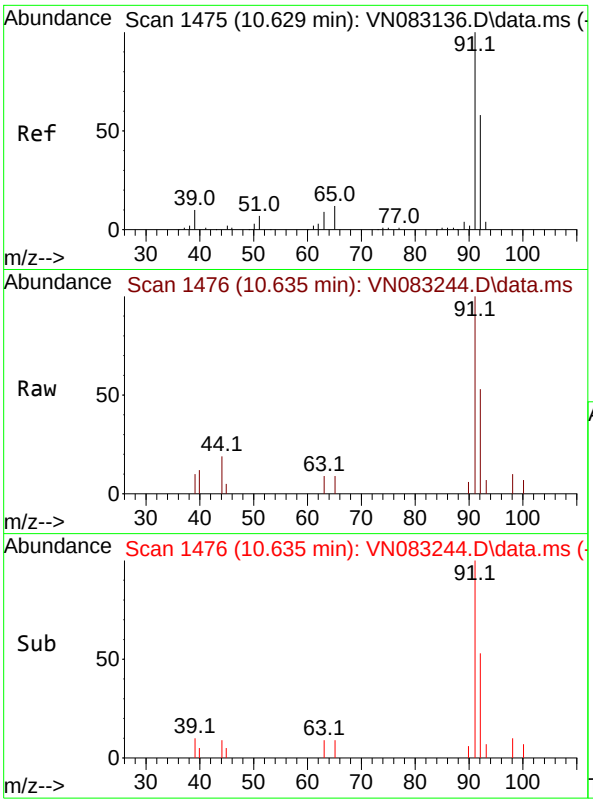


#50
Toluene-d8
Concen: 53.549 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN083244.D
Acq: 12 Aug 2024 17:49

Tgt Ion: 98 Resp: 314255

Ion	Ratio	Lower	Upper
98	100		
100	65.6	51.5	77.3



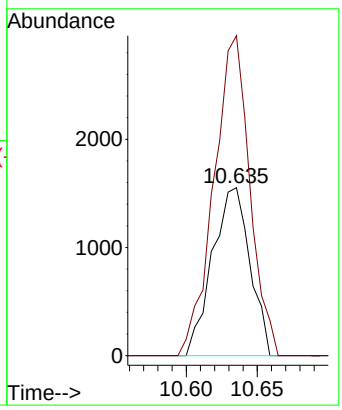


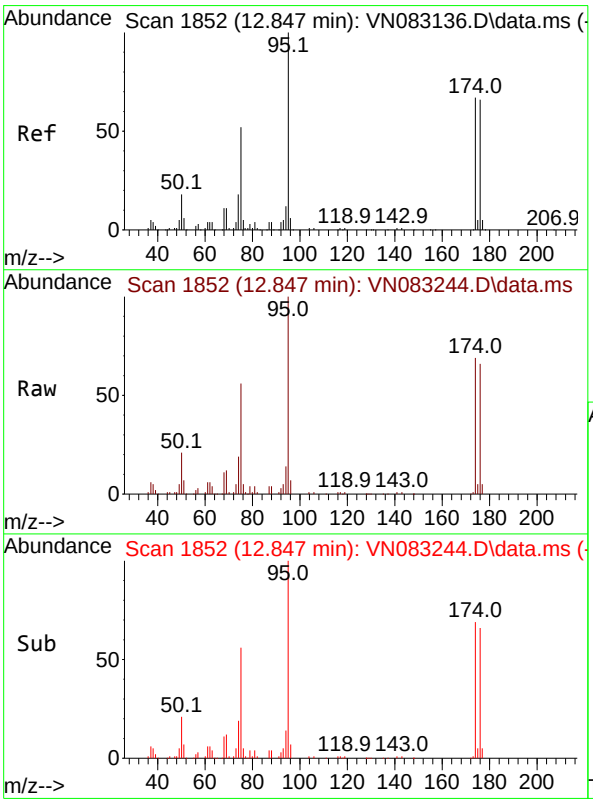
#52
Toluene
Concen: 0.636 ug/l
RT: 10.635 min Scan# 14
Delta R.T. 0.006 min
Lab File: VN083244.D
Acq: 12 Aug 2024 17:49

Instrument :
MSVOA_N
ClientSampleId :
926-K1-WS-073124

Tgt Ion: 92 Resp: 2848

Ion	Ratio	Lower	Upper
92	100		
91	182.7	139.4	209.0

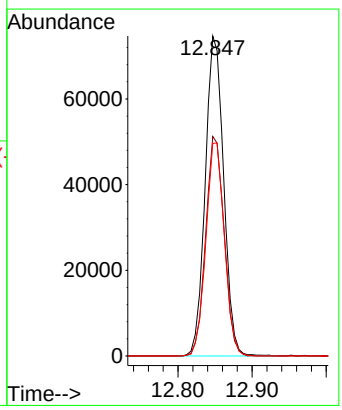


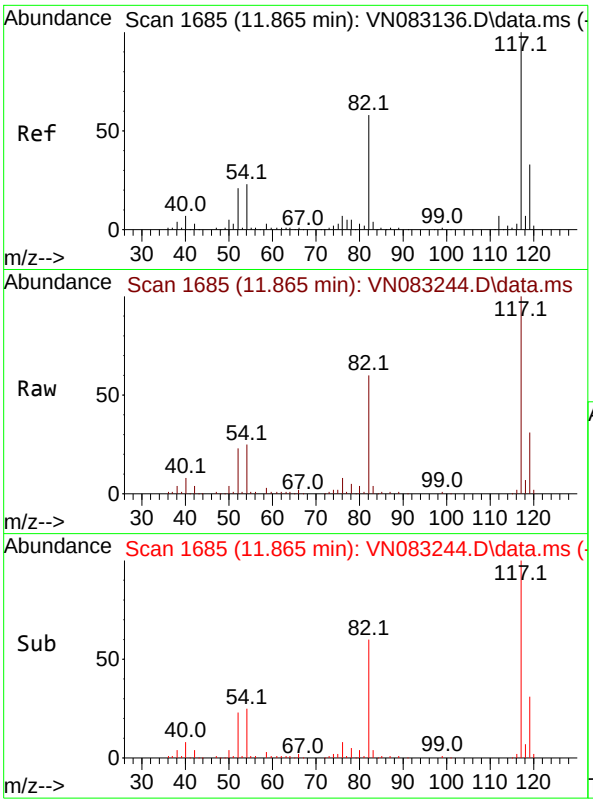


#62
4-Bromofluorobenzene
Concen: 56.297 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083244.D
Acq: 12 Aug 2024 17:49

Tgt Ion: 95 Resp: 128801

Ion	Ratio	Lower	Upper
95	100		
174	68.9	0.0	159.2
176	67.0	0.0	147.6



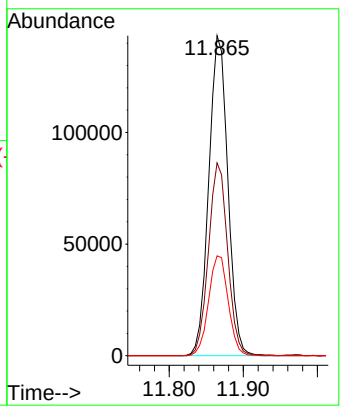


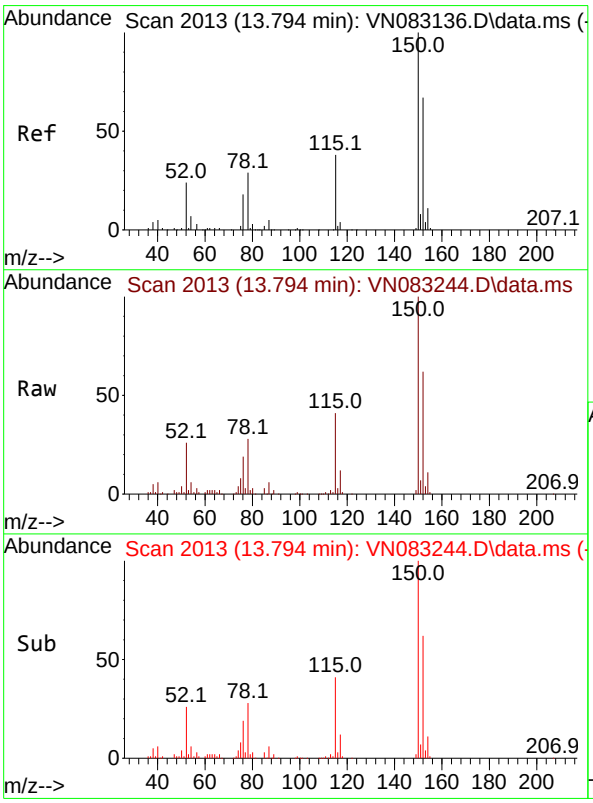
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083244.D
Acq: 12 Aug 2024 17:49

Instrument :
MSVOA_N
ClientSampleId :
926-K1-WS-073124

Tgt Ion:117 Resp: 255948

Ion	Ratio	Lower	Upper
117	100		
82	60.2	47.5	71.3
119	31.2	25.6	38.4

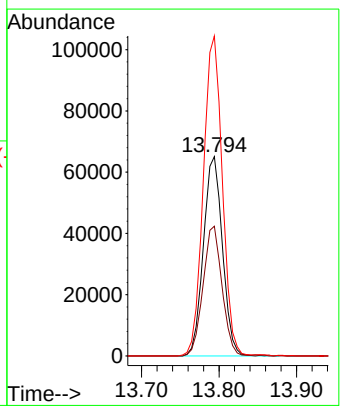




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN083244.D
Acq: 12 Aug 2024 17:49

Tgt Ion:152 Resp: 111123

Ion	Ratio	Lower	Upper
152	100		
115	64.6	30.6	91.6
150	159.8	0.0	348.6



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:	07/31/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	07/31/24
Client Sample ID:	931-K1-WS-073124	SDG No.:	P3429
Lab Sample ID:	P3429-02	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
VN083250.D	1		08/13/24 12:06	VN081324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
67-64-1	Acetone	210		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
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	1.70		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
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

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:	07/31/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	07/31/24
Client Sample ID:	931-K1-WS-073124	SDG No.:	P3429
Lab Sample ID:	P3429-02	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
VN083250.D	1		08/13/24 12:06	VN081324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.9		70 (74) - 130 (125)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	54.6		70 (75) - 130 (124)	109%	SPK: 50
2037-26-5	Toluene-d8	55.5		70 (86) - 130 (113)	111%	SPK: 50
460-00-4	4-Bromofluorobenzene	59.3		70 (77) - 130 (121)	119%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	136000	8.224			
540-36-3	1,4-Difluorobenzene	261000	9.1			
3114-55-4	Chlorobenzene-d5	272000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	121000	13.794			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083250.D
Acq On : 13 Aug 2024 12:06
Operator : JC\MD
Sample : P3429-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
931-K1-WS-073124

Quant Time: Aug 14 01:40:33 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

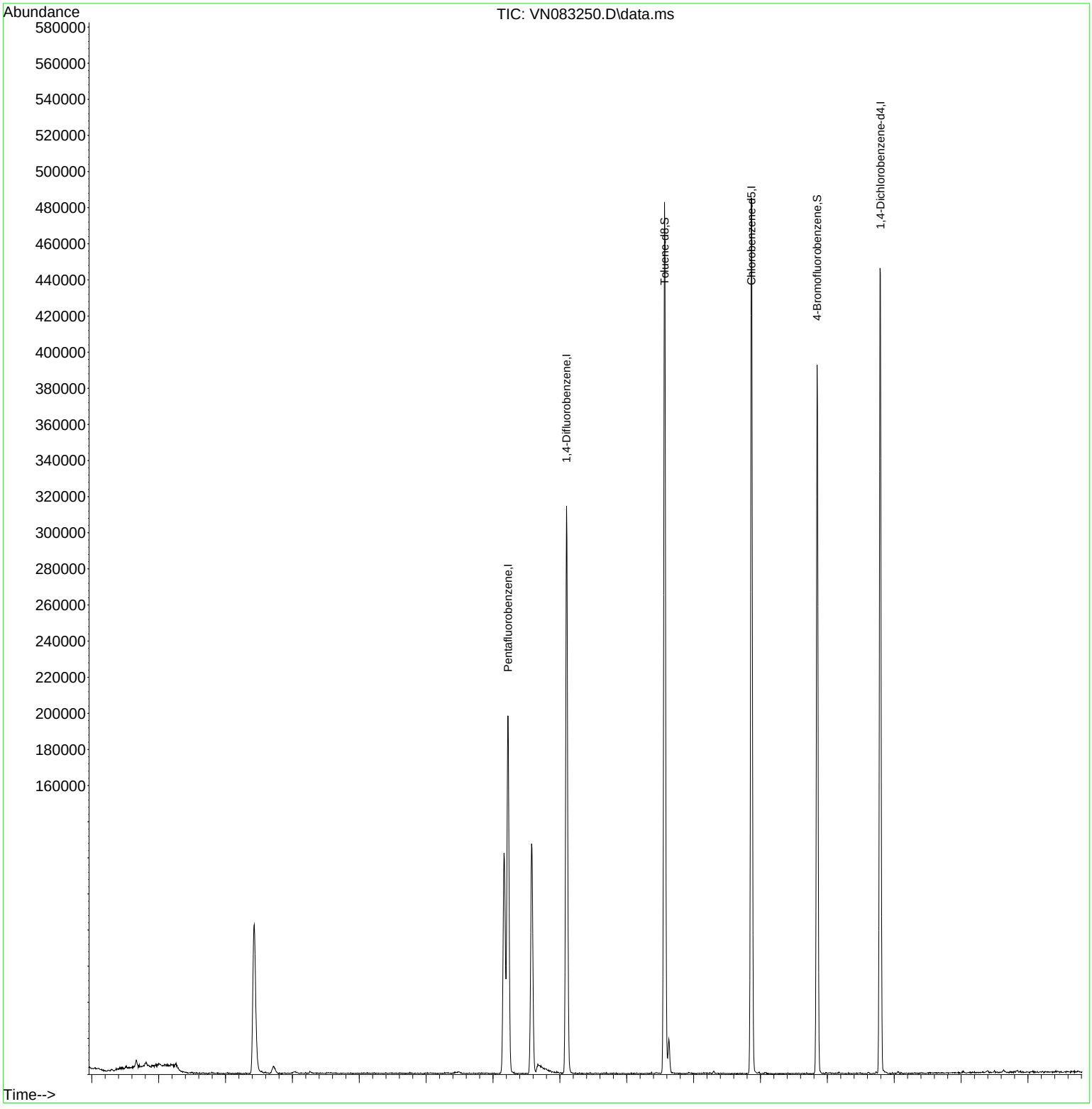
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	136049	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	260779	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	272432	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	121082	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	110189	56.901	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 113.800%			
35) Dibromofluoromethane	8.165	113	88840	54.579	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.160%			
50) Toluene-d8	10.565	98	336719	55.456	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 110.920%			
62) 4-Bromofluorobenzene	12.847	95	140365	59.297	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 118.600%			
Target Compounds						Qvalue
16) Acetone	4.430	43	160843	212.264	ug/l	94
52) Toluene	10.629	92	7899	1.704	ug/l	93

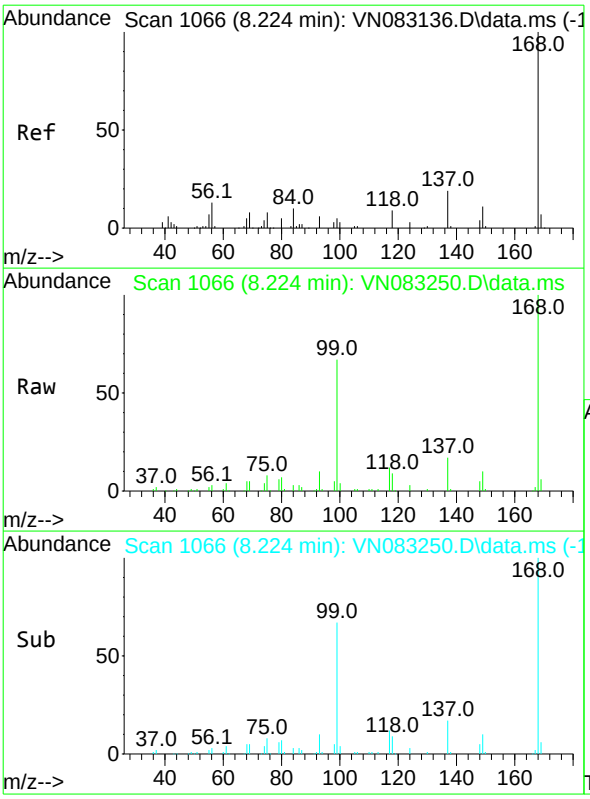
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083250.D
Acq On : 13 Aug 2024 12:06
Operator : JC\MD
Sample : P3429-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
931-K1-WS-073124

Quant Time: Aug 14 01:40:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration



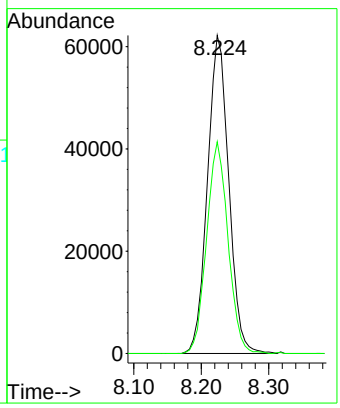


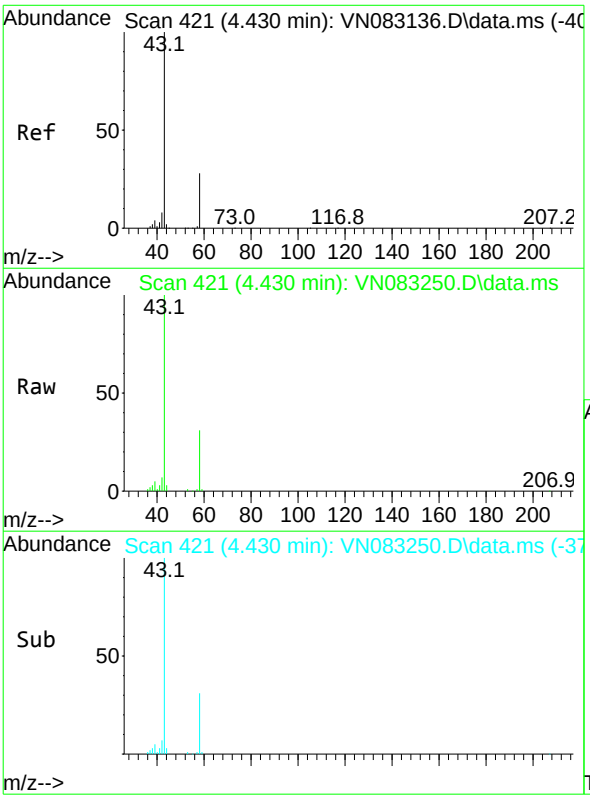
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN083250.D
Acq: 13 Aug 2024 12:06

Instrument :
MSVOA_N
ClientSampleId :
931-K1-WS-073124

Tgt Ion:168 Resp: 136049

Ion	Ratio	Lower	Upper
168	100		
99	66.6	48.2	72.4

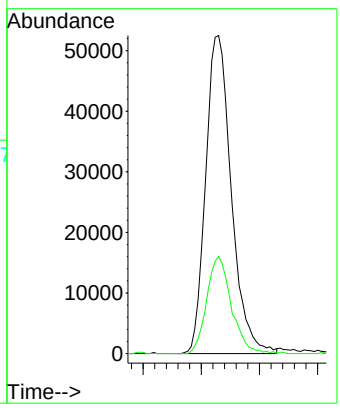


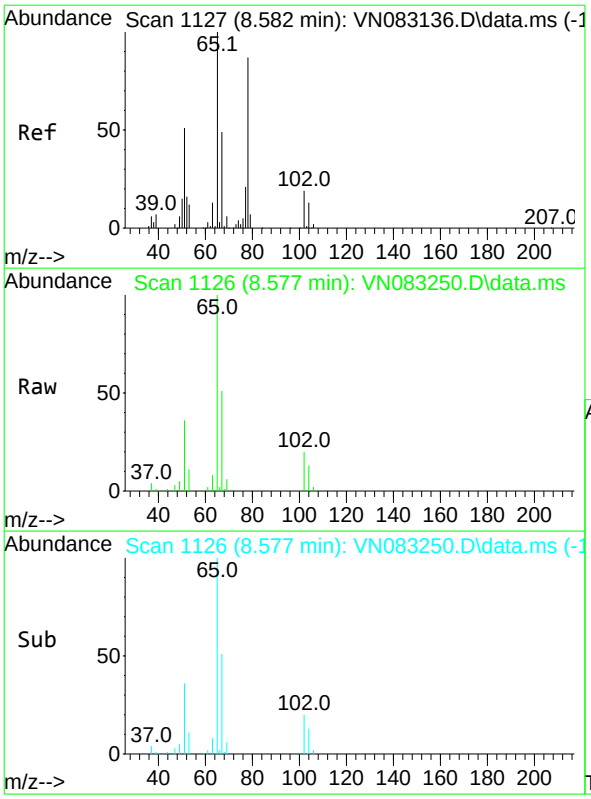


#16
Acetone
Concen: 212.264 ug/l
RT: 4.430 min Scan# 421
Delta R.T. -0.000 min
Lab File: VN083250.D
Acq: 13 Aug 2024 12:06

Tgt Ion: 43 Resp: 160843

Ion	Ratio	Lower	Upper
43	100		
58	30.5	21.8	32.6



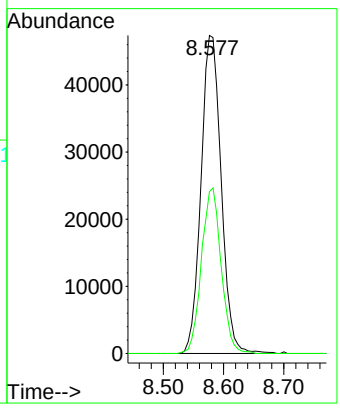


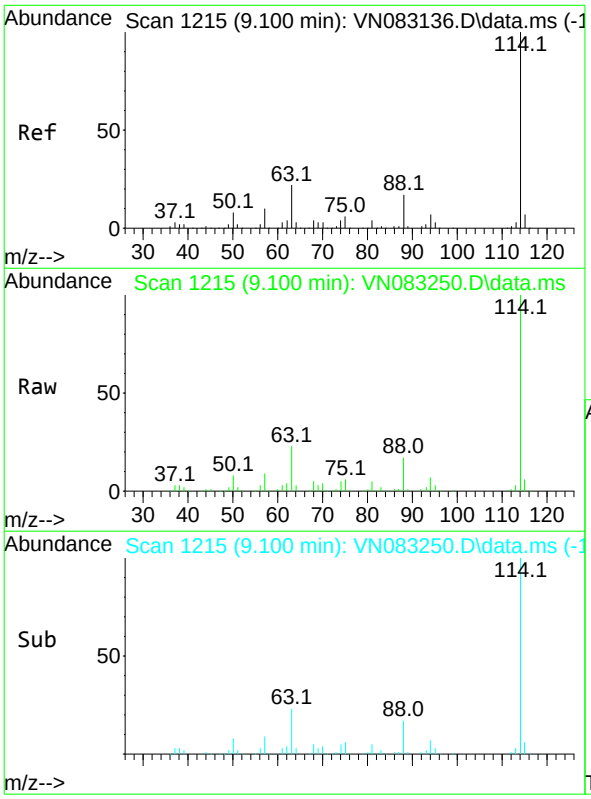
#33
1,2-Dichloroethane-d4
Concen: 56.901 ug/l
RT: 8.577 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN083250.D
Acq: 13 Aug 2024 12:06

Instrument :
MSVOA_N
ClientSampleId :
931-K1-WS-073124

Tgt Ion: 65 Resp: 110189

Ion	Ratio	Lower	Upper
65	100		
67	50.8	0.0	104.4

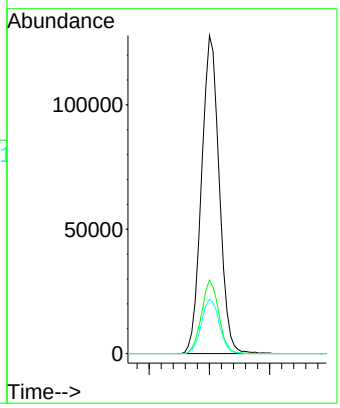


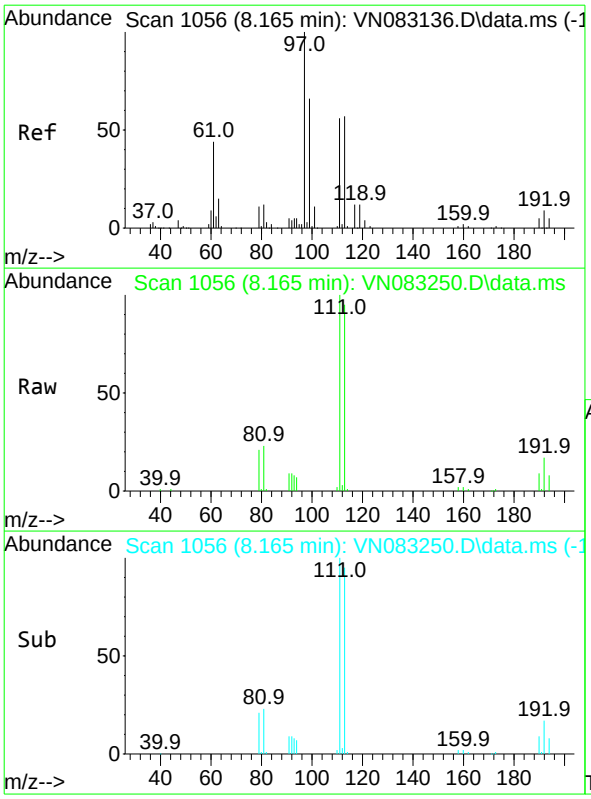


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN083250.D
Acq: 13 Aug 2024 12:06

Tgt Ion:114 Resp: 260779

Ion	Ratio	Lower	Upper
114	100		
63	23.2	0.0	44.6
88	17.1	0.0	31.4



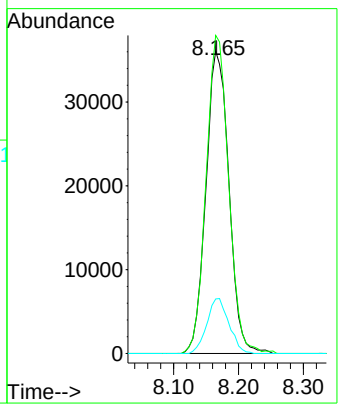


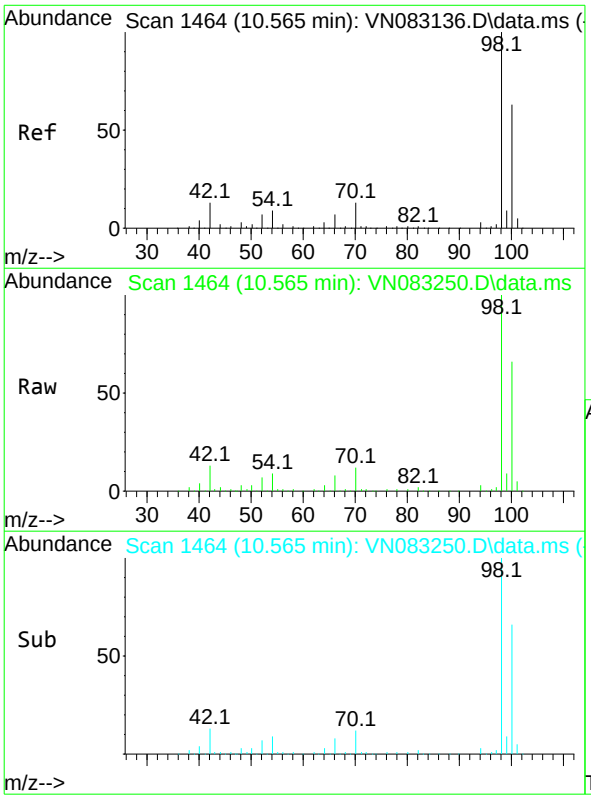
#35
Dibromofluoromethane
Concen: 54.579 ug/l
RT: 8.165 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN083250.D
Acq: 13 Aug 2024 12:06

Instrument :
MSVOA_N
ClientSampleId :
931-K1-WS-073124

Tgt Ion:113 Resp: 88840

Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.4	123.6
192	17.4	14.9	22.3

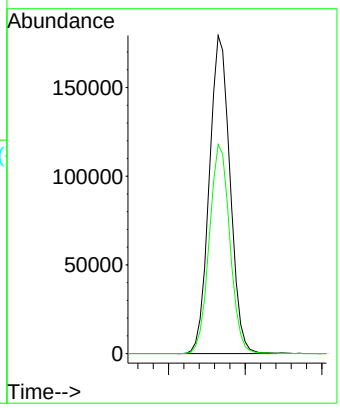


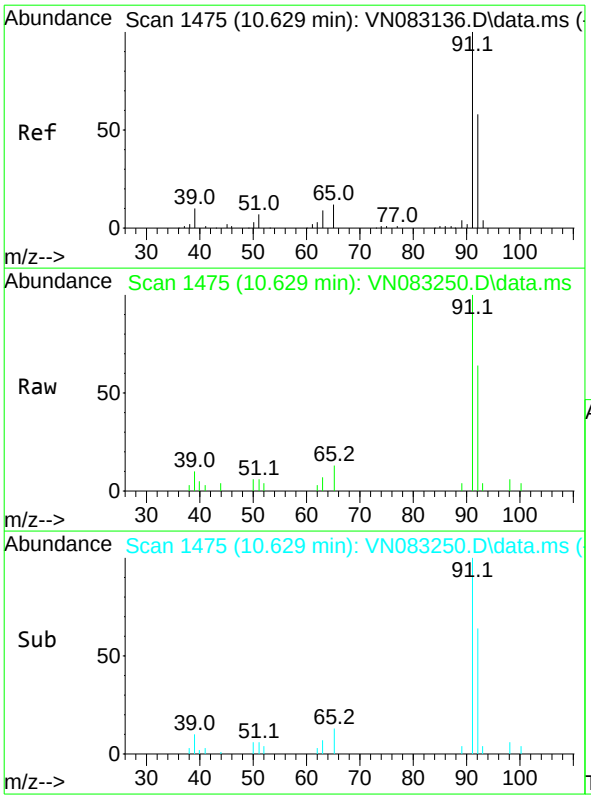


#50
Toluene-d8
Concen: 55.456 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN083250.D
Acq: 13 Aug 2024 12:06

Tgt Ion: 98 Resp: 336719

Ion	Ratio	Lower	Upper
98	100		
100	65.1	51.5	77.3



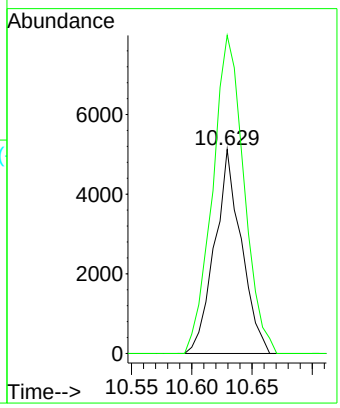


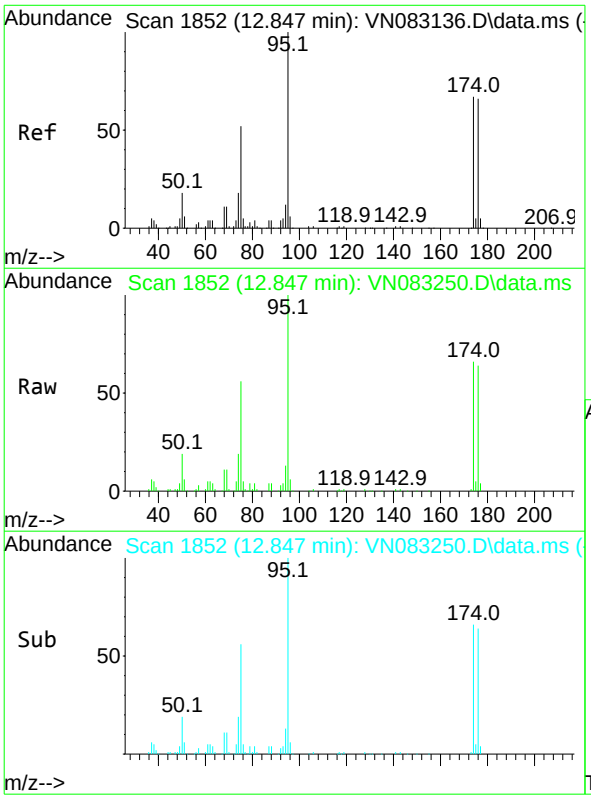
#52
Toluene
Concen: 1.704 ug/l
RT: 10.629 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN083250.D
Acq: 13 Aug 2024 12:06

Instrument :
MSVOA_N
ClientSampleId :
931-K1-WS-073124

Tgt Ion: 92 Resp: 7899

Ion	Ratio	Lower	Upper
92	100		
91	183.4	139.4	209.0

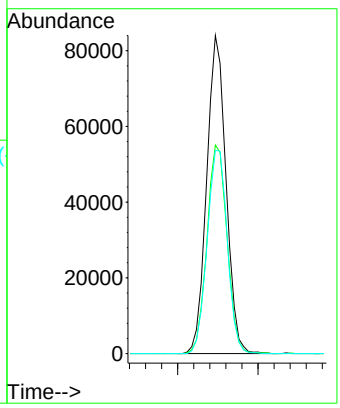


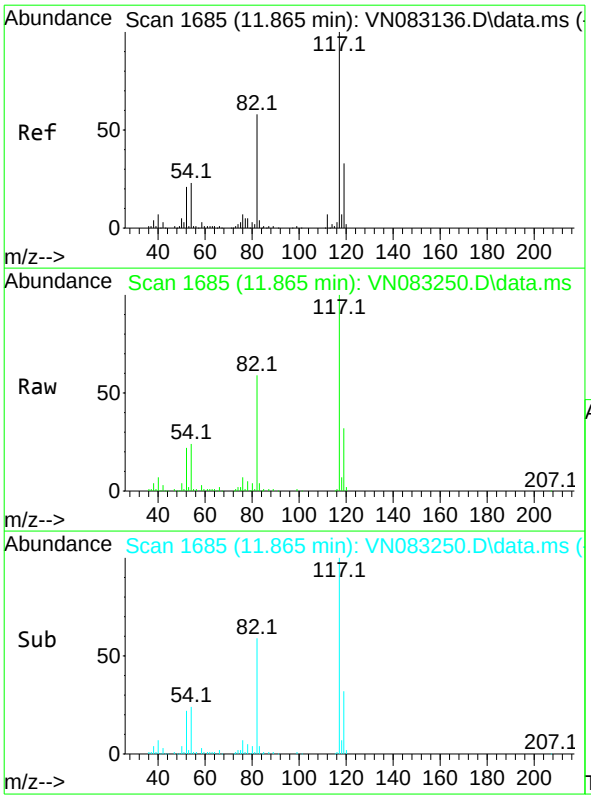


#62
4-Bromofluorobenzene
Concen: 59.297 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083250.D
Acq: 13 Aug 2024 12:06

Tgt Ion: 95 Resp: 140365

Ion	Ratio	Lower	Upper
95	100		
174	68.2	0.0	159.2
176	66.5	0.0	147.6



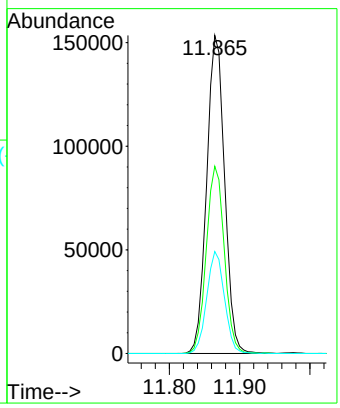


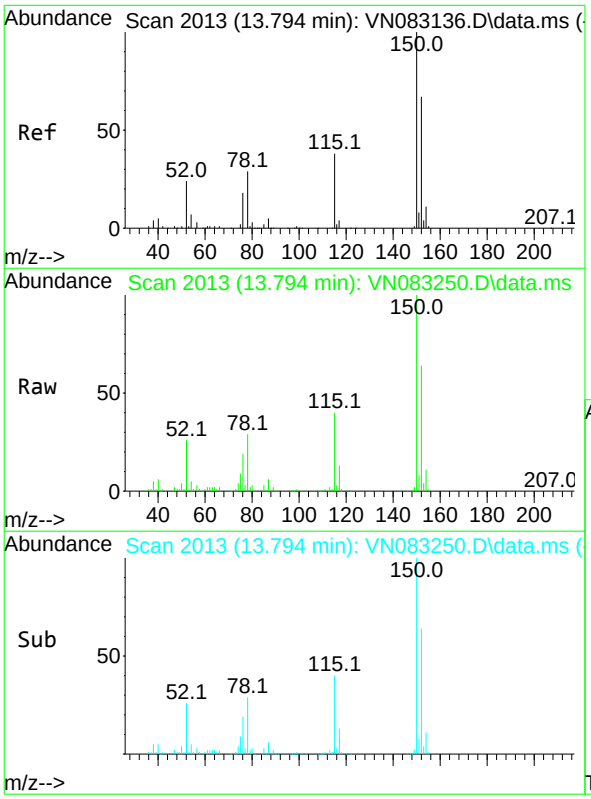
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN083250.D
Acq: 13 Aug 2024 12:06

Instrument :
MSVOA_N
ClientSampleId :
931-K1-WS-073124

Tgt Ion:117 Resp: 272432

Ion	Ratio	Lower	Upper
117	100		
82	58.9	47.5	71.3
119	32.1	25.6	38.4

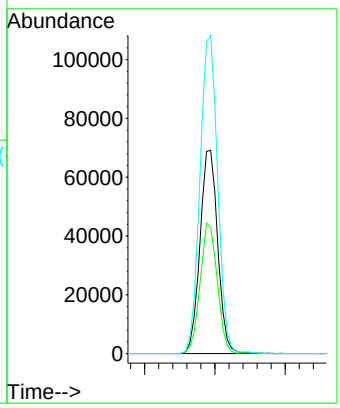




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN083250.D
Acq: 13 Aug 2024 12:06

Tgt Ion:152 Resp: 121082

Ion	Ratio	Lower	Upper
152	100		
115	62.0	30.6	91.6
150	155.9	0.0	348.6



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:	07/31/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	07/31/24
Client Sample ID:	925-K1-WS-073124	SDG No.:	P3429
Lab Sample ID:	P3429-03	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083269.D	1		08/13/24 19:45	VN081324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	190	E	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	50.7		0.25	1.00	ug/L
67-64-1	Acetone	12.4		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	7.60		0.25	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	1100	E	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	0.57	J	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	7.80		0.32	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-88-3	Toluene	1.10		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	0.26	J	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
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

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:	07/31/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	07/31/24
Client Sample ID:	925-K1-WS-073124	SDG No.:	P3429
Lab Sample ID:	P3429-03	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083269.D	1		08/13/24 19:45	VN081324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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	53.9		70 (75) - 130 (124)	108%	SPK: 50
2037-26-5	Toluene-d8	53.4		70 (86) - 130 (113)	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.5		70 (77) - 130 (121)	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	132000	8.224			
540-36-3	1,4-Difluorobenzene	256000	9.1			
3114-55-4	Chlorobenzene-d5	257000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	110000	13.794			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083269.D
Acq On : 13 Aug 2024 19:45
Operator : JC\MD
Sample : P3429-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
925-K1-WS-073124

Quant Time: Aug 14 01:49:33 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

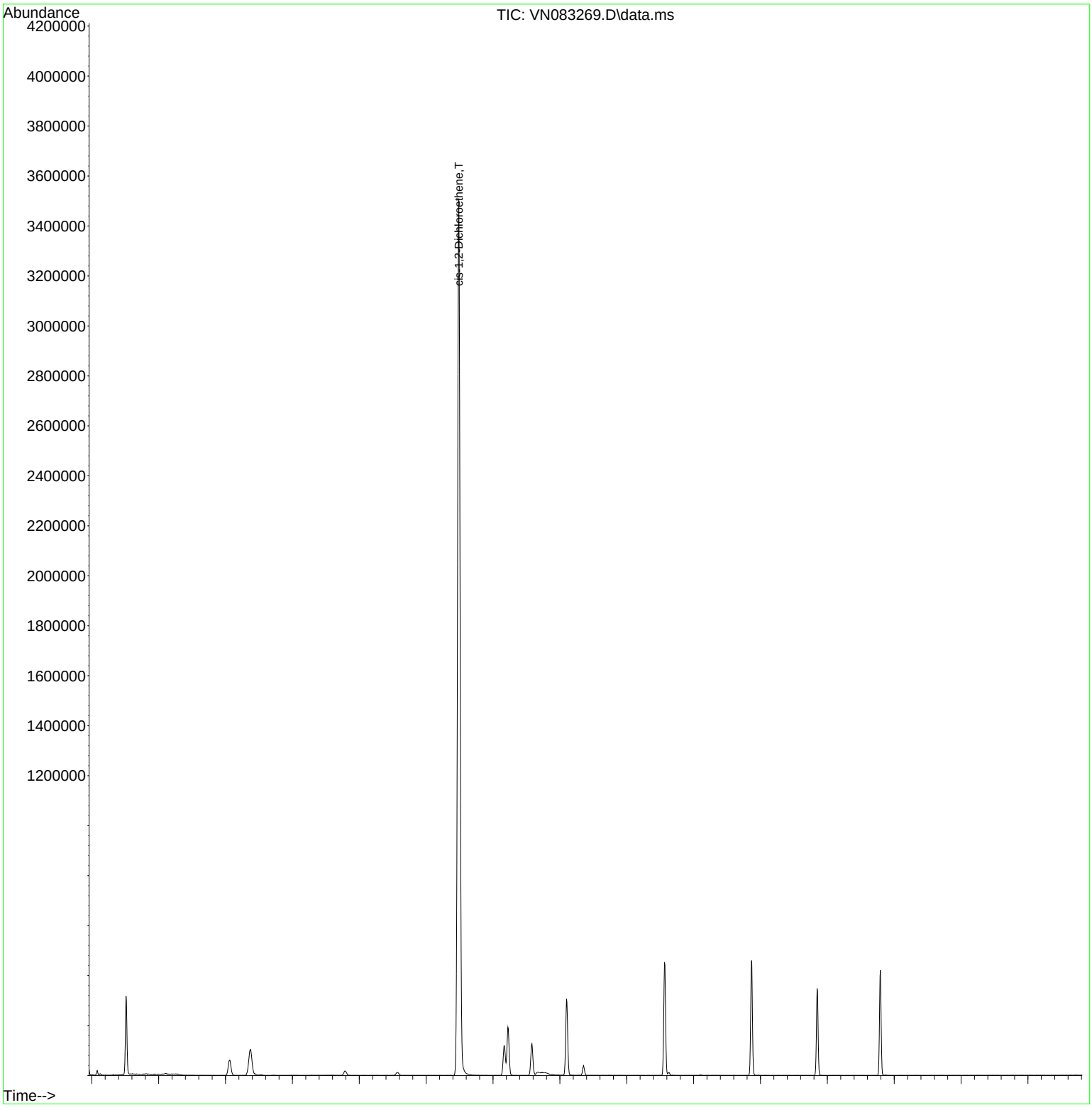
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	131513	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	255536	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	257054	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	110153	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	106997	57.158	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 114.320%			
35) Dibromofluoromethane	8.171	113	85905	53.859	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 107.720%			
50) Toluene-d8	10.565	98	317651	53.389	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.780%			
62) 4-Bromofluorobenzene	12.847	95	126373	54.482	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 108.960%			
Target Compounds						Qvalue
4) Vinyl Chloride	2.512	62	300019	192.568	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.377	101	71936	50.695	ug/l	99
12) 1,1-Dichloroethene	4.347	96	5493	3.768	ug/l #	77
16) Acetone	4.436	43	9117	12.447	ug/l	99
21) trans-1,2-Dichloroethene	5.783	96	11501	7.633	ug/l	91
24) 1,1-Dichloroethane	6.571	63	18791	6.657	ug/l	96
27) cis-1,2-Dichloroethene	7.488	96	2080407	1144.206	ug/l	84
40) Benzene	8.606	78	4133	0.575	ug/l	91
44) Trichloroethene	9.353	130	13314	7.782	ug/l	86
52) Toluene	10.629	92	5037	1.109	ug/l	99
65) Chlorobenzene	11.888	112	1490	0.262	ug/l	97

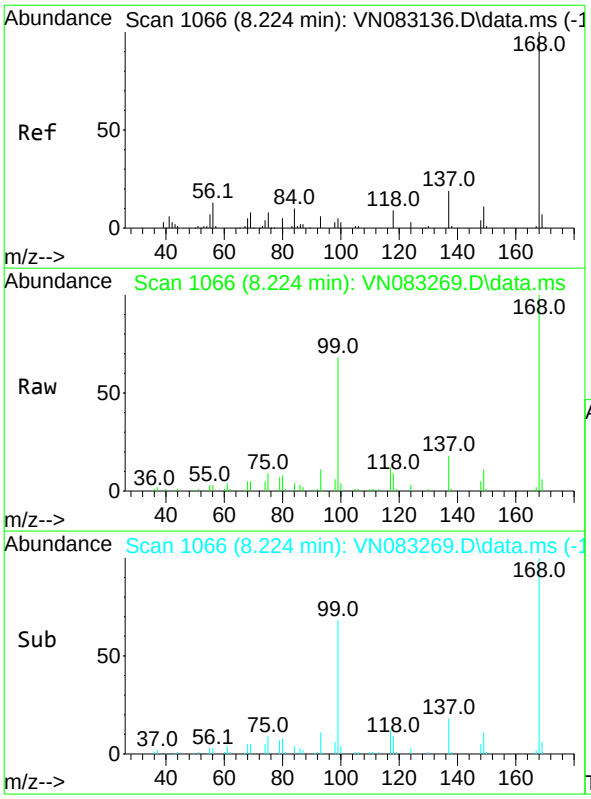
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083269.D
Acq On : 13 Aug 2024 19:45
Operator : JC\MD
Sample : P3429-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
925-K1-WS-073124

Quant Time: Aug 14 01:49:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration



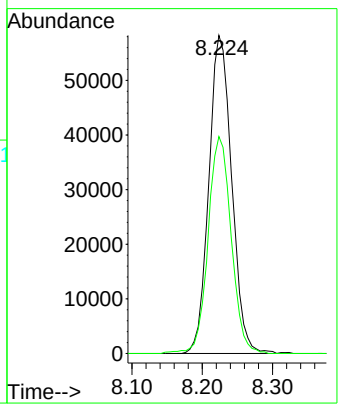


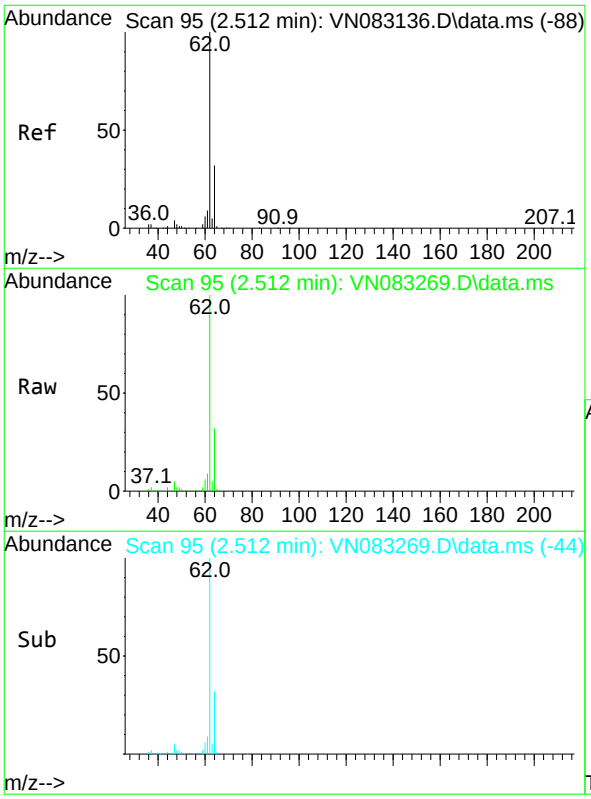
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN083269.D
Acq: 13 Aug 2024 19:45

Instrument :
MSVOA_N
ClientSampleId :
925-K1-WS-073124

Tgt Ion:168 Resp: 131513

Ion	Ratio	Lower	Upper
168	100		
99	68.2	48.2	72.4

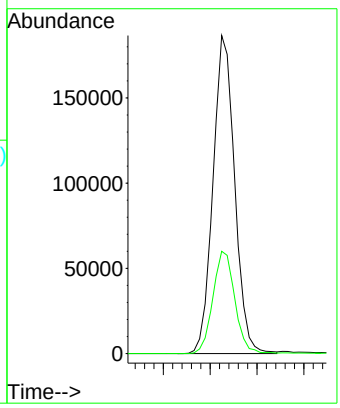


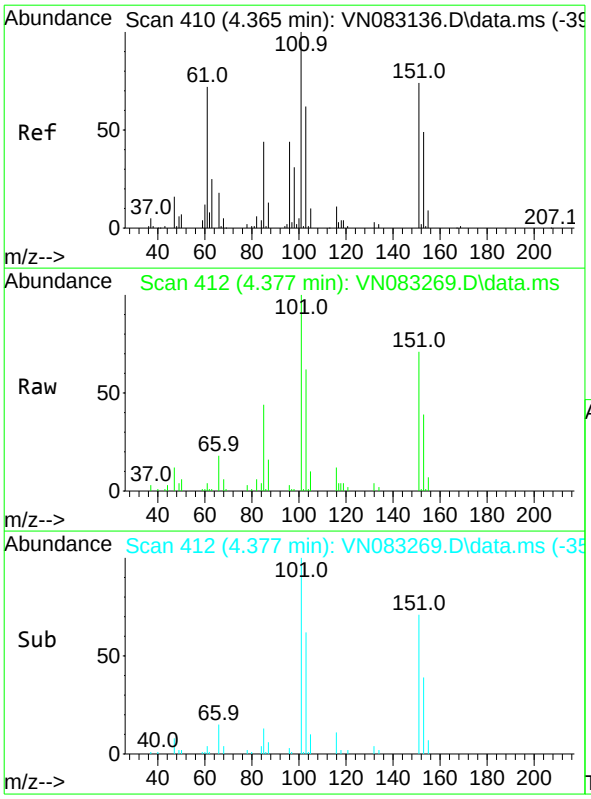


#4
Vinyl Chloride
Concen: 192.568 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN083269.D
Acq: 13 Aug 2024 19:45

Tgt Ion: 62 Resp: 300019

Ion	Ratio	Lower	Upper
62	100		
64	32.2	25.0	37.6



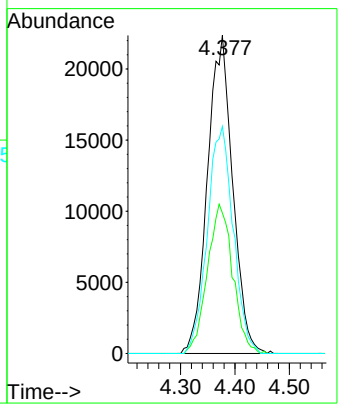


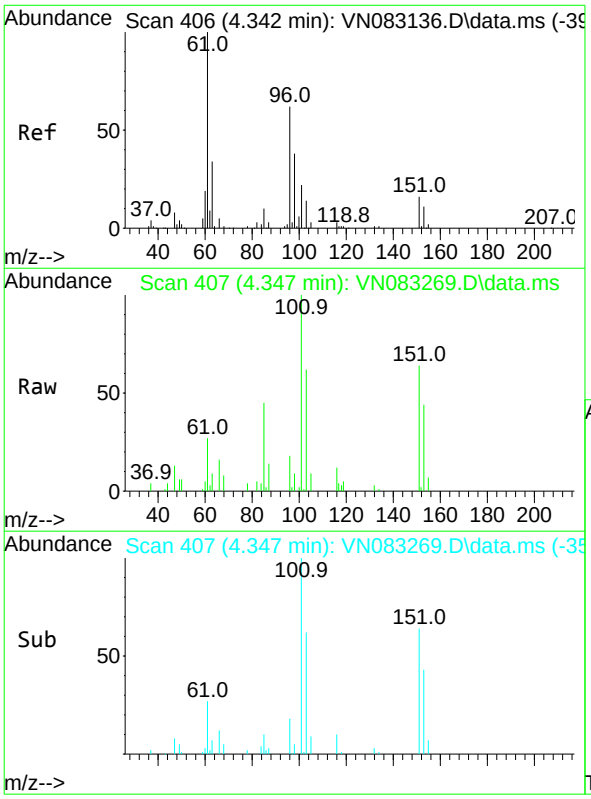
#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.695 ug/l
RT: 4.377 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN083269.D
Acq: 13 Aug 2024 19:45

Instrument :
MSVOA_N
ClientSampleId :
925-K1-WS-073124

Tgt Ion:101 Resp: 71936

Ion	Ratio	Lower	Upper
101	100		
85	47.2	38.3	57.5
151	73.2	59.3	88.9

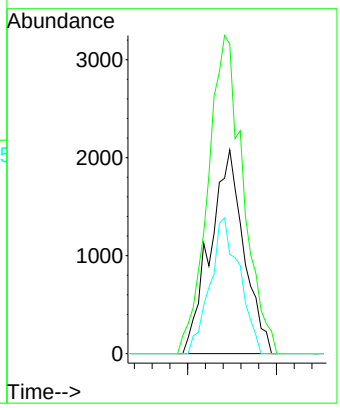


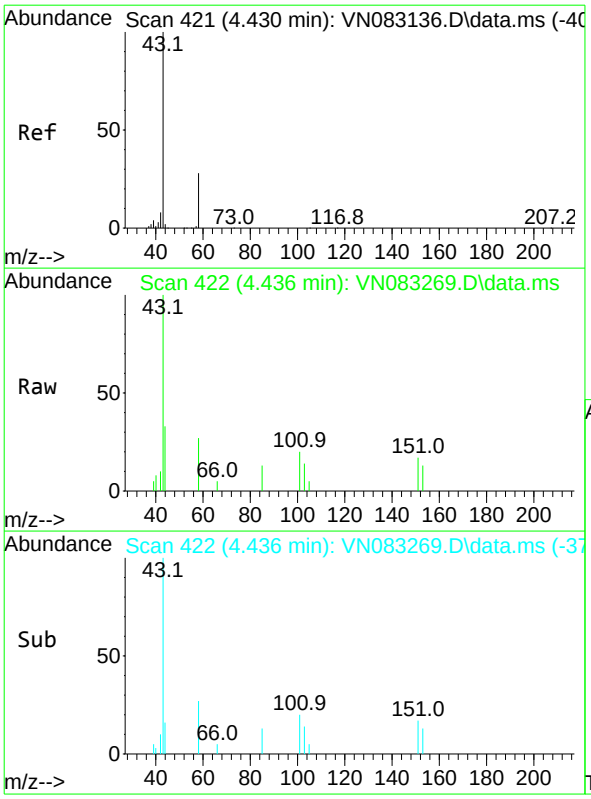


#12
1,1-Dichloroethene
Concen: 3.768 ug/l
RT: 4.347 min Scan# 407
Delta R.T. 0.006 min
Lab File: VN083269.D
Acq: 13 Aug 2024 19:45

Tgt Ion: 96 Resp: 5493

Ion	Ratio	Lower	Upper
96	100		
61	151.9	149.7	224.5
98	48.8	50.1	75.1#



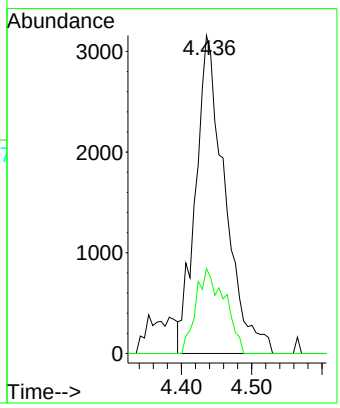


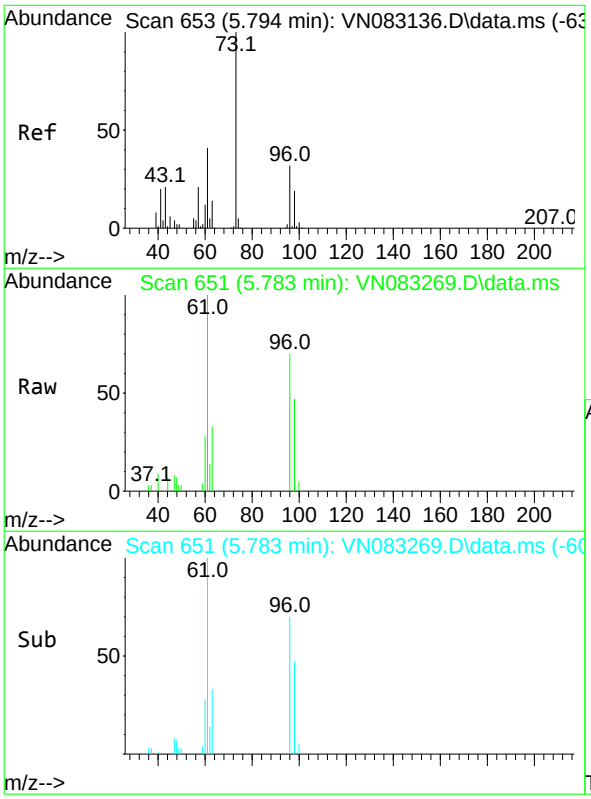
#16
Acetone
Concen: 12.447 ug/l
RT: 4.436 min Scan# 42
Delta R.T. 0.006 min
Lab File: VN083269.D
Acq: 13 Aug 2024 19:45

Instrument :
MSVOA_N
ClientSampleId :
925-K1-WS-073124

Tgt Ion: 43 Resp: 9117

Ion	Ratio	Lower	Upper
43	100		
58	26.7	21.8	32.6

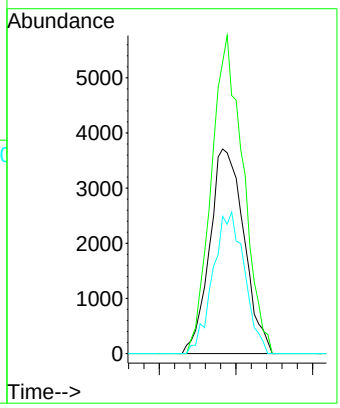


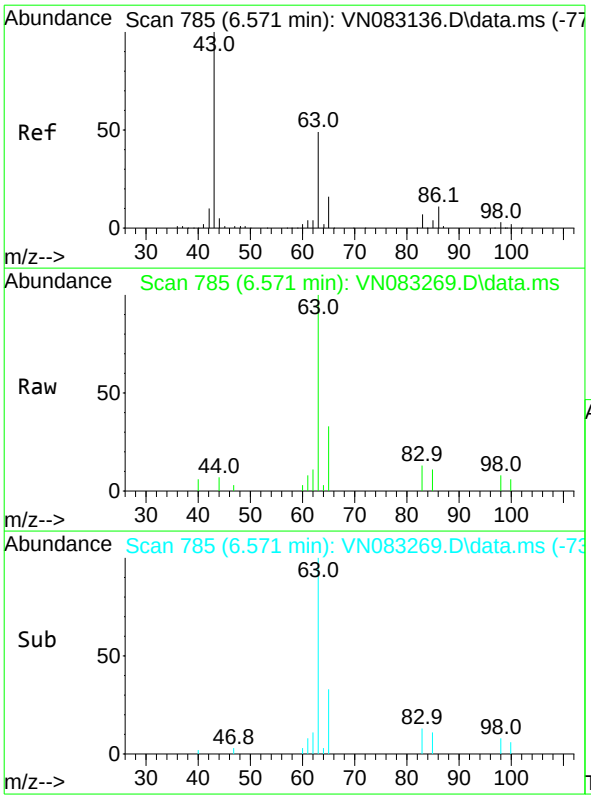


#21
trans-1,2-Dichloroethene
Concen: 7.633 ug/l
RT: 5.783 min Scan# 651
Delta R.T. -0.012 min
Lab File: VN083269.D
Acq: 13 Aug 2024 19:45

Tgt Ion: 96 Resp: 11501

Ion	Ratio	Lower	Upper
96	100		
61	142.5	123.4	185.2
98	67.1	49.3	73.9



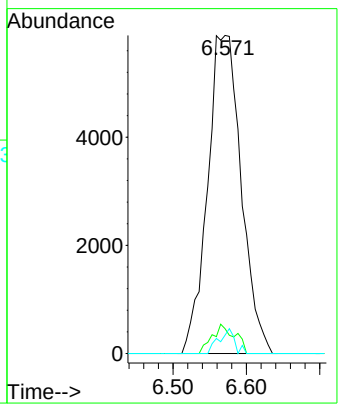


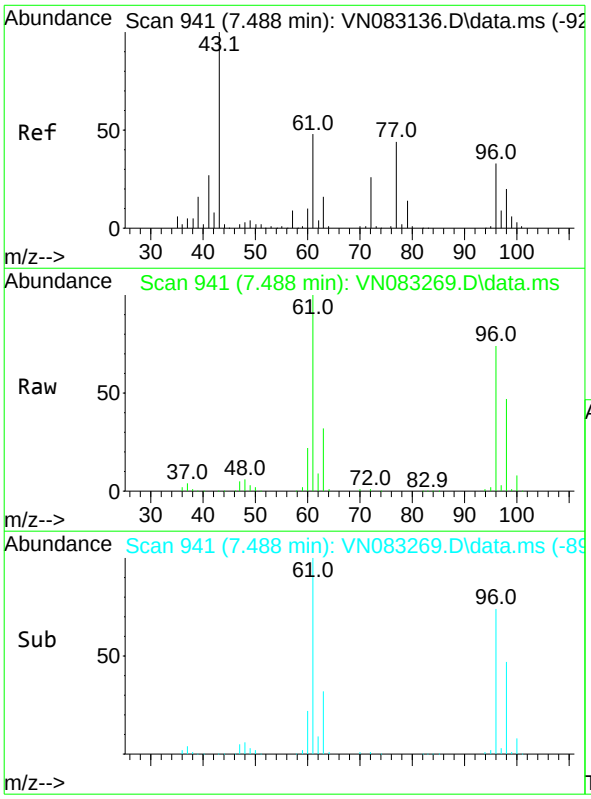
#24
1,1-Dichloroethane
Concen: 6.657 ug/l
RT: 6.571 min Scan# 78
Delta R.T. -0.000 min
Lab File: VN083269.D
Acq: 13 Aug 2024 19:45

Instrument :
MSVOA_N
ClientSampleId :
925-K1-WS-073124

Tgt Ion: 63 Resp: 18791

Ion	Ratio	Lower	Upper
63	100		
98	7.8	3.3	9.9
100	5.7	2.0	6.0

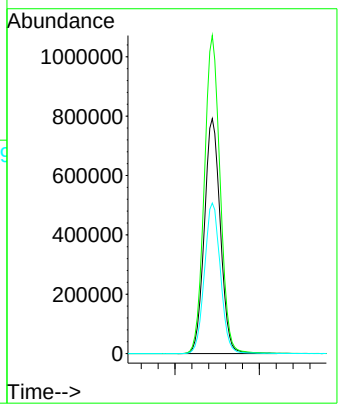


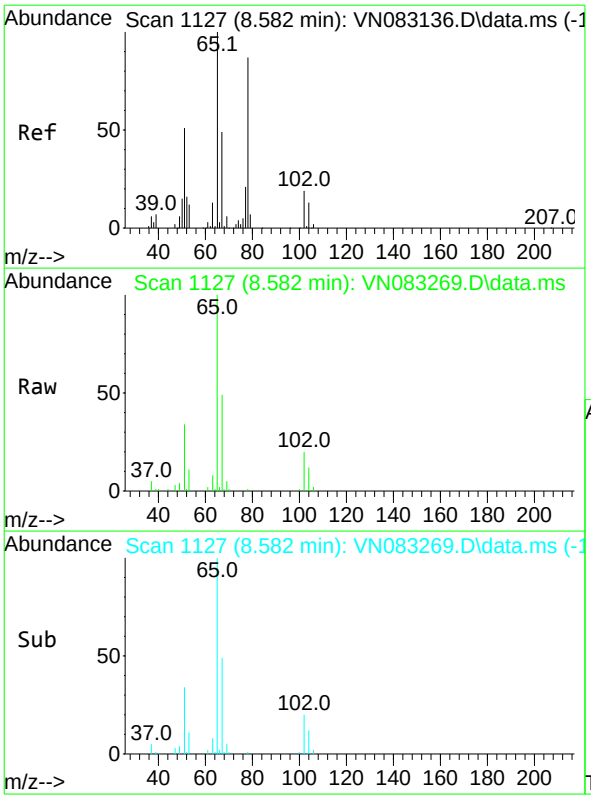


#27
cis-1,2-Dichloroethene
Concen: 1144.206 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN083269.D
Acq: 13 Aug 2024 19:45

Tgt Ion: 96 Resp: 2080407

Ion	Ratio	Lower	Upper
96	100		
61	134.3	0.0	329.6
98	64.1	0.0	128.6



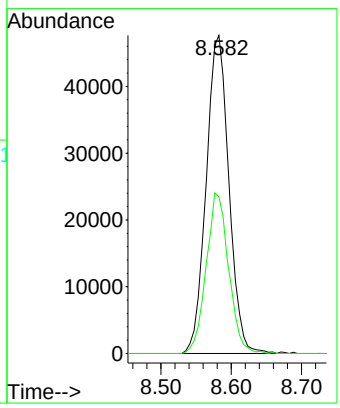


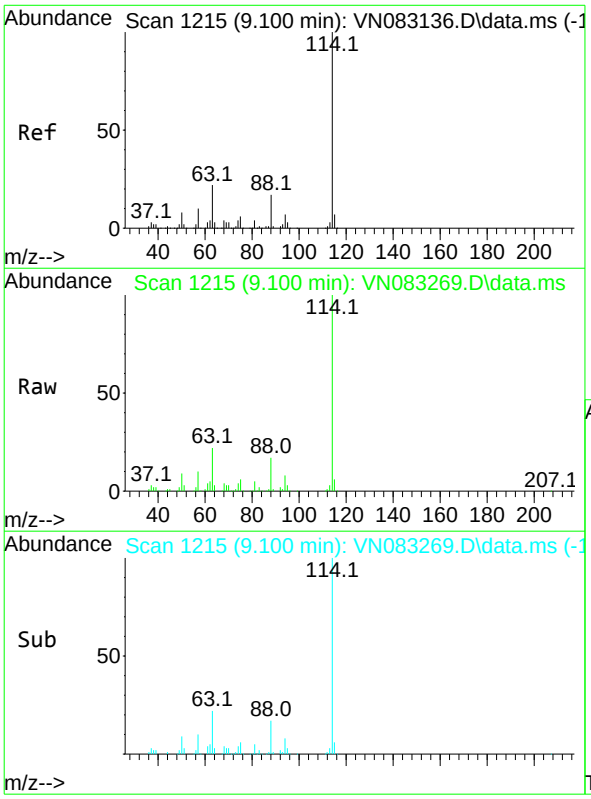
#33
1,2-Dichloroethane-d4
Concen: 57.158 ug/l
RT: 8.582 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN083269.D
Acq: 13 Aug 2024 19:45

Instrument :
MSVOA_N
ClientSampleId :
925-K1-WS-073124

Tgt Ion: 65 Resp: 106997

Ion	Ratio	Lower	Upper
65	100		
67	49.9	0.0	104.4

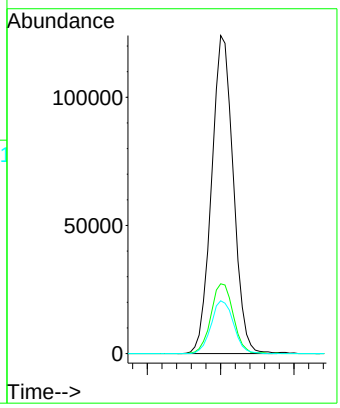


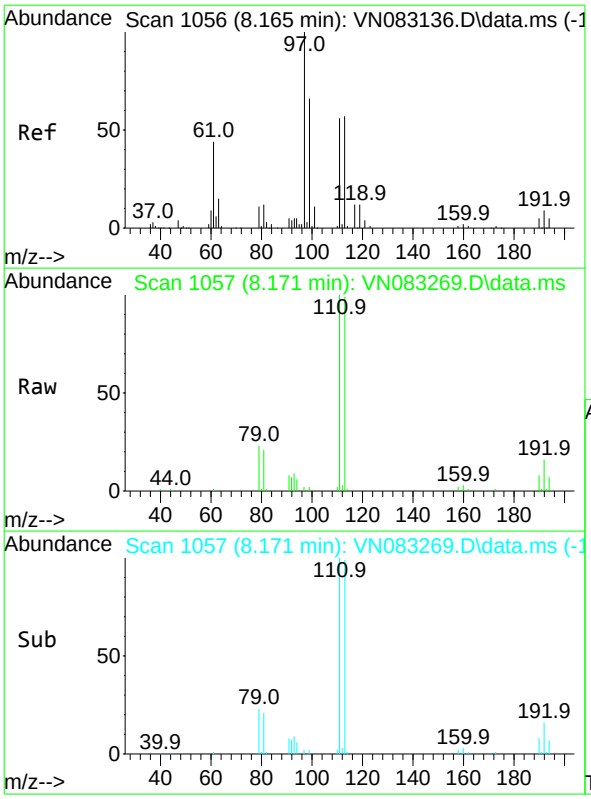


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN083269.D
Acq: 13 Aug 2024 19:45

Tgt Ion:114 Resp: 255536

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	44.6
88	16.6	0.0	31.4



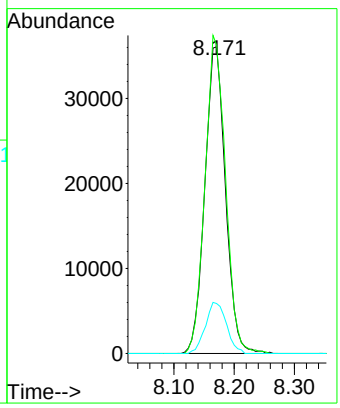


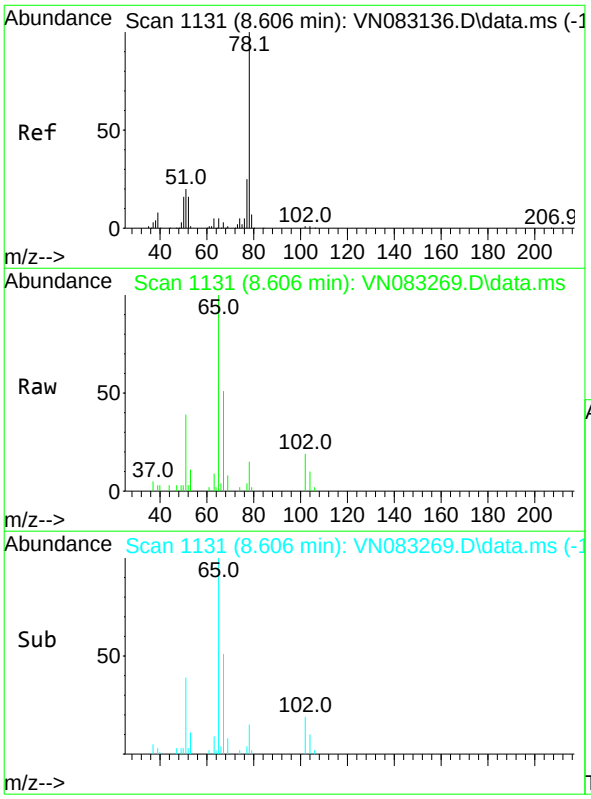
#35
Dibromofluoromethane
Concen: 53.859 ug/l
RT: 8.171 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN083269.D
Acq: 13 Aug 2024 19:45

Instrument :
MSVOA_N
ClientSampleId :
925-K1-WS-073124

Tgt Ion:113 Resp: 85905

Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.4	123.6
192	17.0	14.9	22.3

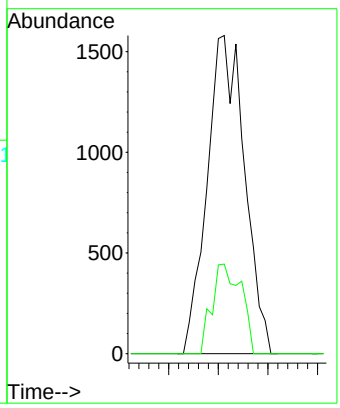


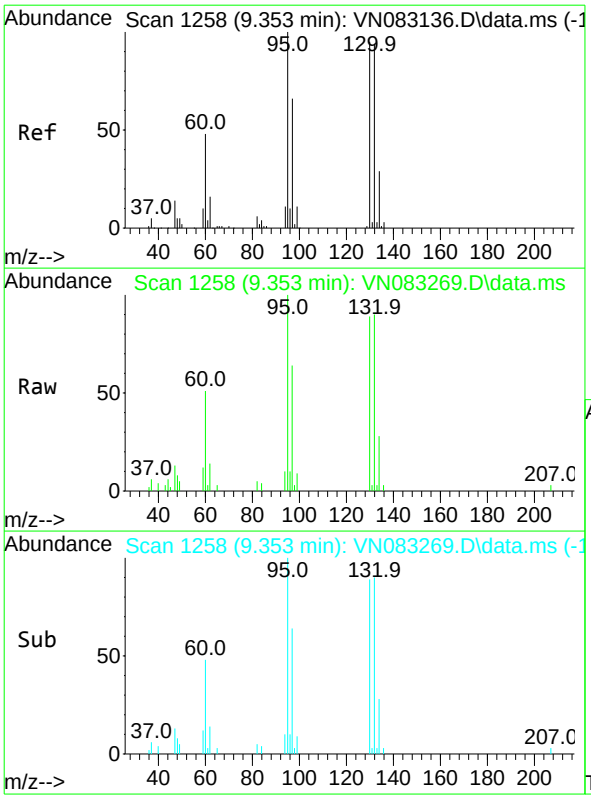


#40
Benzene
Concen: 0.575 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN083269.D
Acq: 13 Aug 2024 19:45

Tgt Ion: 78 Resp: 4133

Ion	Ratio	Lower	Upper
78	100		
77	28.2	19.0	28.4



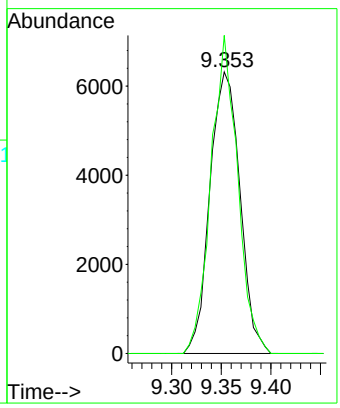


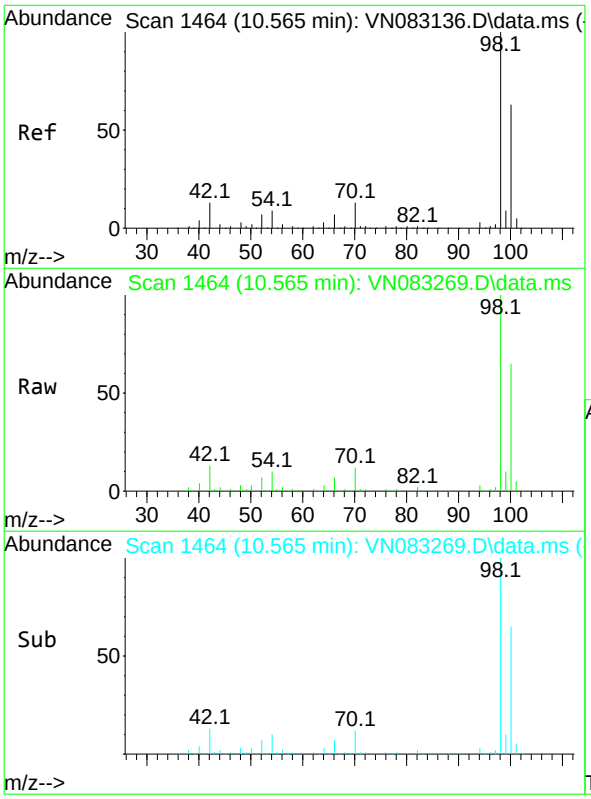
#44
Trichloroethene
Concen: 7.782 ug/l
RT: 9.353 min Scan# 12
Delta R.T. 0.000 min
Lab File: VN083269.D
Acq: 13 Aug 2024 19:45

Instrument :
MSVOA_N
ClientSampleId :
925-K1-WS-073124

Tgt Ion:130 Resp: 13314

Ion	Ratio	Lower	Upper
130	100		
95	113.0	0.0	197.8

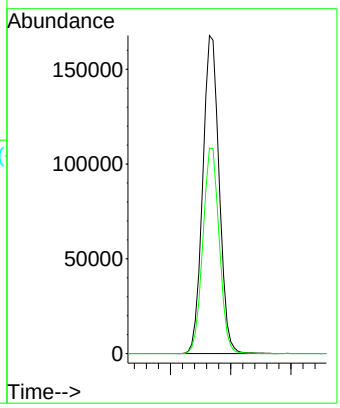


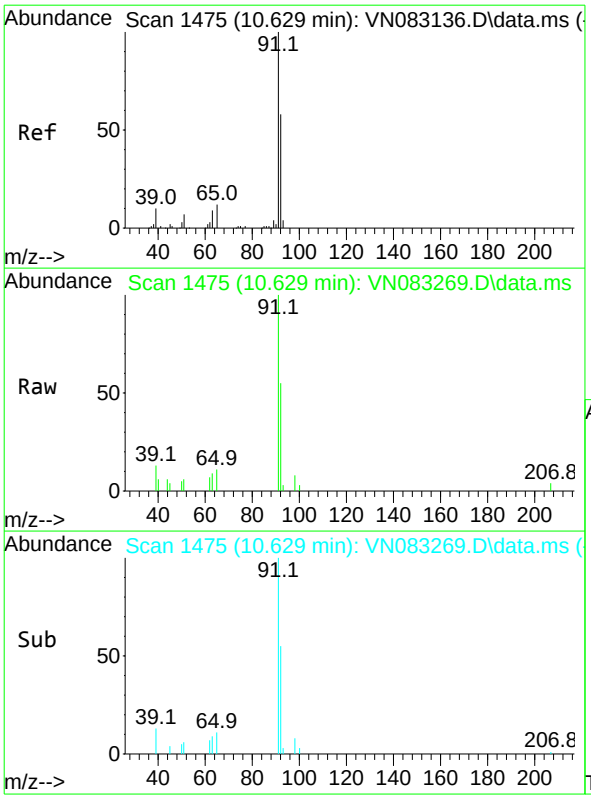


#50
Toluene-d8
Concen: 53.389 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN083269.D
Acq: 13 Aug 2024 19:45

Tgt Ion: 98 Resp: 317651

Ion	Ratio	Lower	Upper
98	100		
100	64.7	51.5	77.3



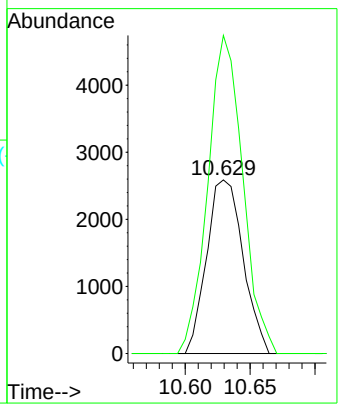


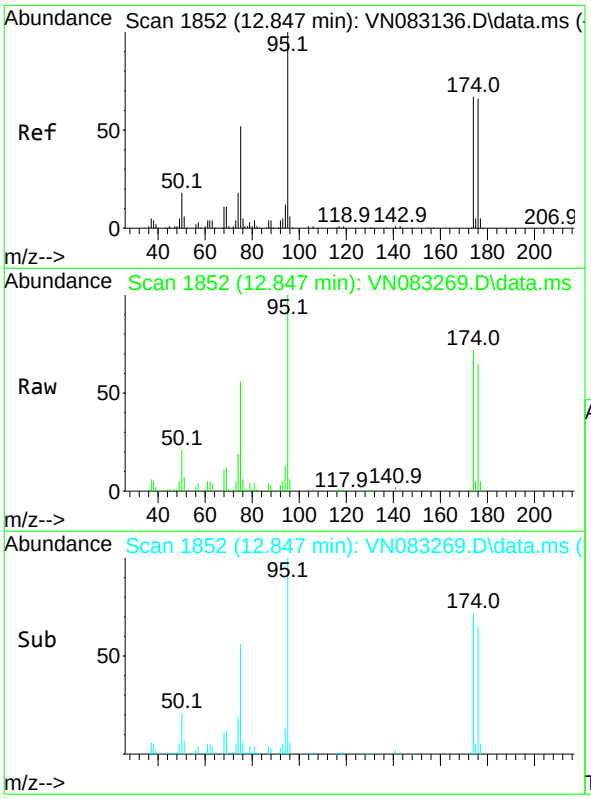
#52
Toluene
Concen: 1.109 ug/l
RT: 10.629 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN083269.D
Acq: 13 Aug 2024 19:45

Instrument :
MSVOA_N
ClientSampleId :
925-K1-WS-073124

Tgt Ion: 92 Resp: 5037

Ion	Ratio	Lower	Upper
92	100		
91	176.1	139.4	209.0

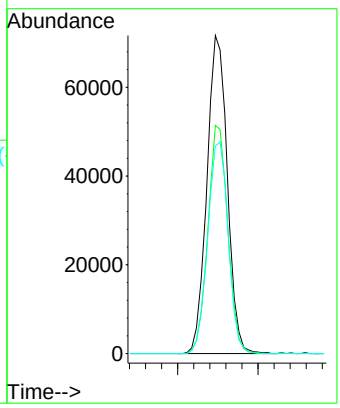


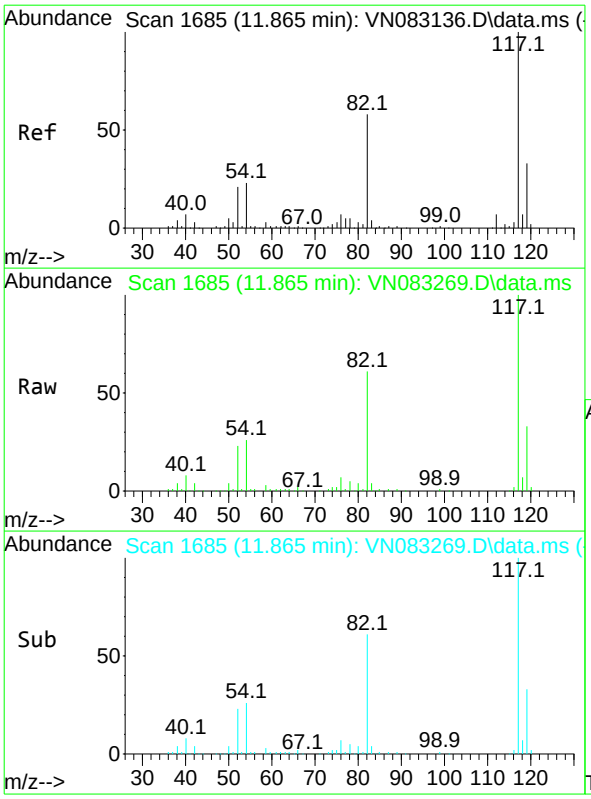


#62
4-Bromofluorobenzene
Concen: 54.482 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083269.D
Acq: 13 Aug 2024 19:45

Tgt Ion: 95 Resp: 126373

Ion	Ratio	Lower	Upper
95	100		
174	69.9	0.0	159.2
176	66.9	0.0	147.6



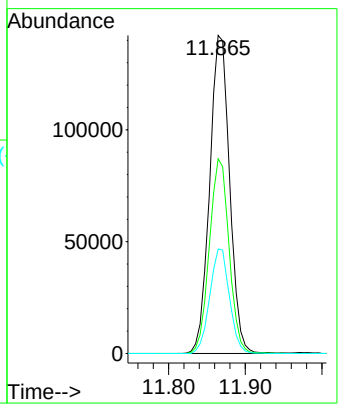


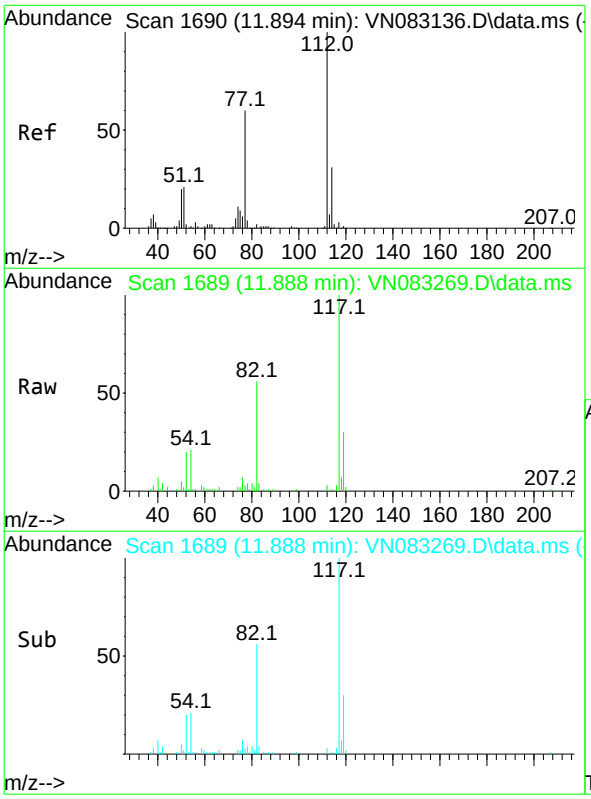
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN083269.D
Acq: 13 Aug 2024 19:45

Instrument :
MSVOA_N
ClientSampleId :
925-K1-WS-073124

Tgt Ion:117 Resp: 257054

Ion	Ratio	Lower	Upper
117	100		
82	61.2	47.5	71.3
119	32.9	25.6	38.4

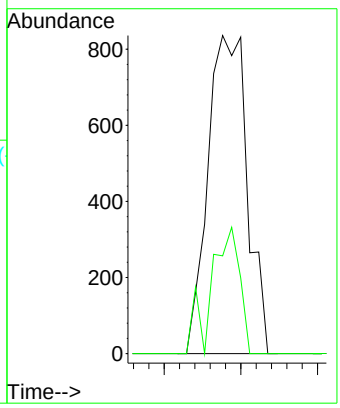


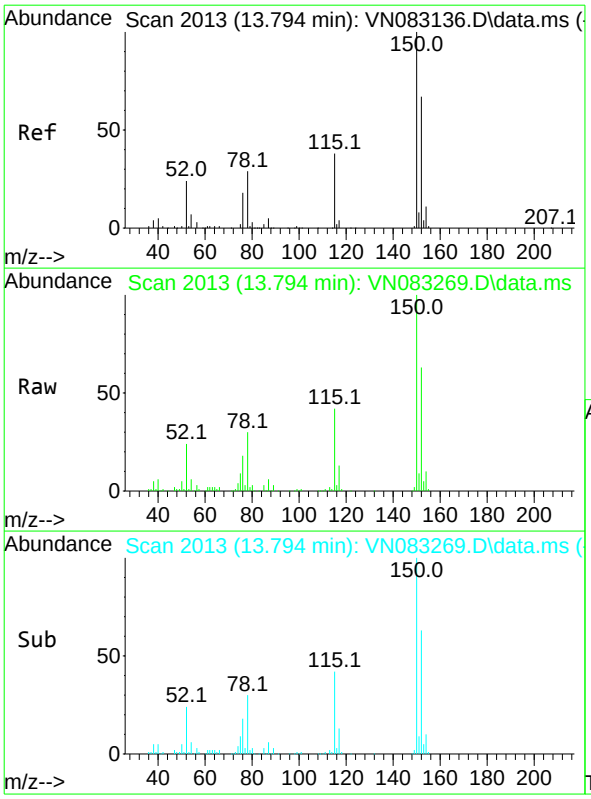


#65
Chlorobenzene
Concen: 0.262 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.006 min
Lab File: VN083269.D
Acq: 13 Aug 2024 19:45

Tgt Ion:112 Resp: 1490

Ion	Ratio	Lower	Upper
112	100		
114	30.7	26.2	39.2



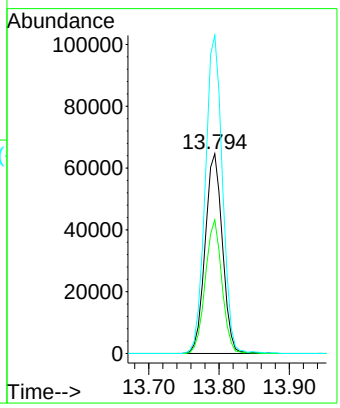


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN083269.D
Acq: 13 Aug 2024 19:45

Instrument :
MSVOA_N
ClientSampleId :
925-K1-WS-073124

Tgt Ion:152 Resp: 110153

Ion	Ratio	Lower	Upper
152	100		
115	64.2	30.6	91.6
150	158.2	0.0	348.6



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:	07/31/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	07/31/24
Client Sample ID:	925-K1-WS-073124DL	SDG No.:	P3429
Lab Sample ID:	P3429-03DL	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
VN083299.D	20		08/14/24 14:27	VN081424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	4.20	UD	4.20	20.0	ug/L
74-87-3	Chloromethane	7.00	UD	7.00	20.0	ug/L
75-01-4	Vinyl Chloride	220	D	6.80	20.0	ug/L
74-83-9	Bromomethane	27.2	UD	27.2	100	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	62.2	D	5.00	20.0	ug/L
67-64-1	Acetone	27.8	UD	27.8	100	ug/L
75-15-0	Carbon Disulfide	6.40	UD	6.40	20.0	ug/L
1634-04-4	Methyl tert-butyl Ether	3.20	UD	3.20	20.0	ug/L
75-09-2	Methylene Chloride	6.40	UD	6.40	20.0	ug/L
156-60-5	trans-1,2-Dichloroethene	5.00	UD	5.00	20.0	ug/L
110-82-7	Cyclohexane	32.4	UD	32.4	100	ug/L
78-93-3	2-Butanone	26.0	UD	26.0	100	ug/L
56-23-5	Carbon Tetrachloride	5.00	UD	5.00	20.0	ug/L
156-59-2	cis-1,2-Dichloroethene	1100	D	5.00	20.0	ug/L
67-66-3	Chloroform	5.20	UD	5.20	20.0	ug/L
71-55-6	1,1,1-Trichloroethane	3.80	UD	3.80	20.0	ug/L
108-87-2	Methylcyclohexane	3.80	UD	3.80	20.0	ug/L
71-43-2	Benzene	3.20	UD	3.20	20.0	ug/L
107-06-2	1,2-Dichloroethane	4.80	UD	4.80	20.0	ug/L
79-01-6	Trichloroethene	10.1	JD	6.40	20.0	ug/L
75-27-4	Bromodichloromethane	4.80	UD	4.80	20.0	ug/L
108-88-3	Toluene	3.60	UD	3.60	20.0	ug/L
79-00-5	1,1,2-Trichloroethane	4.20	UD	4.20	20.0	ug/L
124-48-1	Dibromochloromethane	3.60	UD	3.60	20.0	ug/L
127-18-4	Tetrachloroethene	5.00	UD	5.00	20.0	ug/L
108-90-7	Chlorobenzene	2.60	UD	2.60	20.0	ug/L
100-41-4	Ethyl Benzene	3.20	UD	3.20	20.0	ug/L
179601-23-1	m/p-Xylenes	6.20	UD	6.20	40.0	ug/L
1330-20-7	Total Xylenes	9.00	UD	9.00	60.0	ug/L
95-47-6	o-Xylene	2.80	UD	2.80	20.0	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:	07/31/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	07/31/24
Client Sample ID:	925-K1-WS-073124DL	SDG No.:	P3429
Lab Sample ID:	P3429-03DL	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
VN083299.D	20		08/14/24 14:27	VN081424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
98-82-8	Isopropylbenzene	2.60	UD	2.60	20.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.40	UD	5.40	20.0	ug/L
95-50-1	1,2-Dichlorobenzene	3.80	UD	3.80	20.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.4		70 (74) - 130 (125)	113%	SPK: 50
1868-53-7	Dibromofluoromethane	52.7		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	53.1		70 (86) - 130 (113)	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	57.4		70 (77) - 130 (121)	115%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	130000	8.224			
540-36-3	1,4-Difluorobenzene	253000	9.1			
3114-55-4	Chlorobenzene-d5	260000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	115000	13.794			

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081424\
Data File : VN083299.D
Acq On : 14 Aug 2024 14:27
Operator : JC\MD
Sample : P3429-03DL 20X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
925-K1-WS-073124DL

Quant Time: Aug 14 23:23:20 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

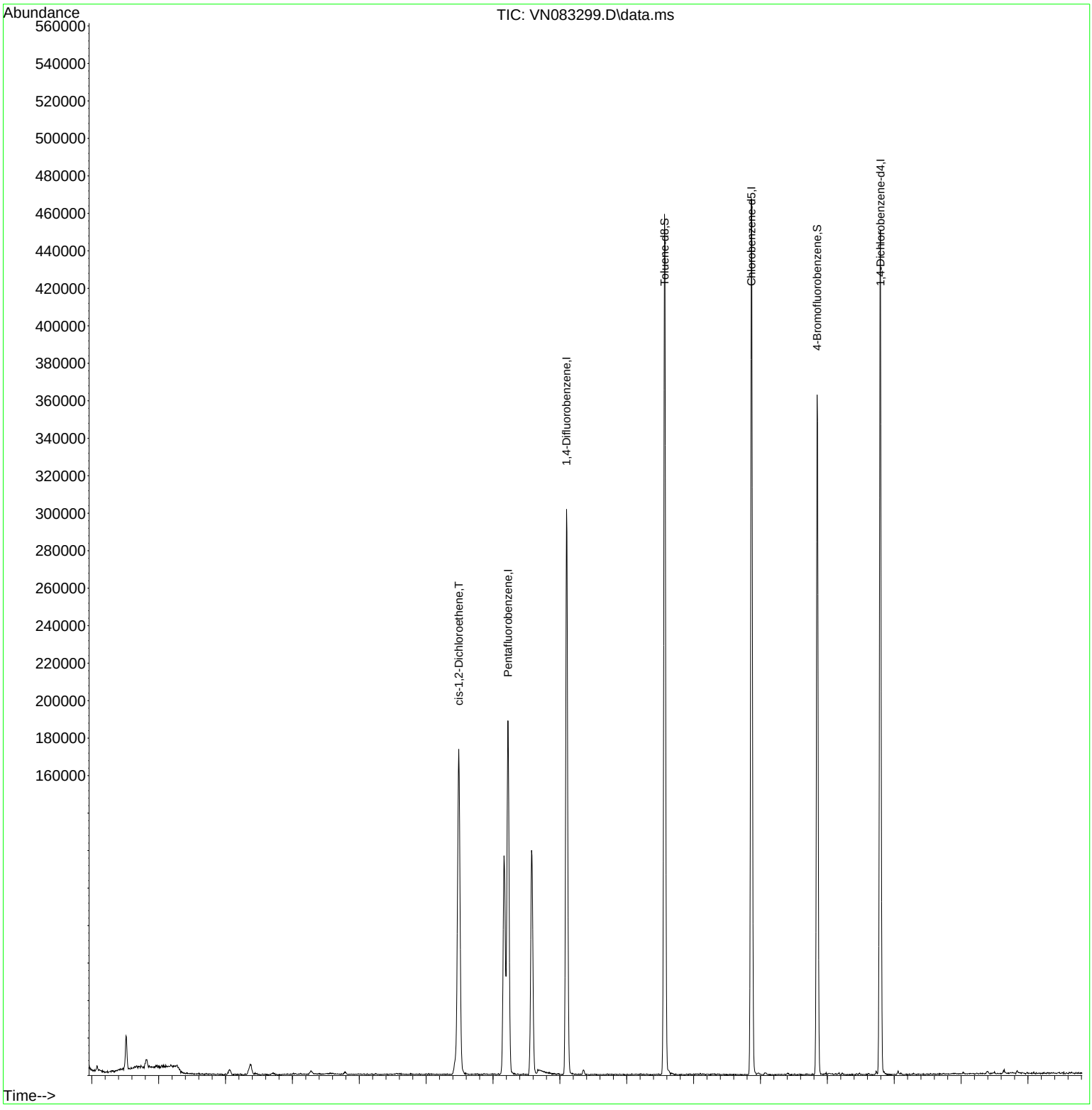
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	130132	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	253353	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	260285	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	115317	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	104430	56.379	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.760%			
35) Dibromofluoromethane	8.165	113	83334	52.697	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.400%			
50) Toluene-d8	10.565	98	313451	53.137	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.280%			
62) 4-Bromofluorobenzene	12.847	95	131983	57.391	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 114.780%			
Target Compounds						Qvalue
4) Vinyl Chloride	2.512	62	16972	11.009	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.371	101	4370	3.112	ug/l	94
27) cis-1,2-Dichloroethene	7.488	96	102086	56.742	ug/l	83
44) Trichloroethene	9.353	130	859	0.506	ug/l	79

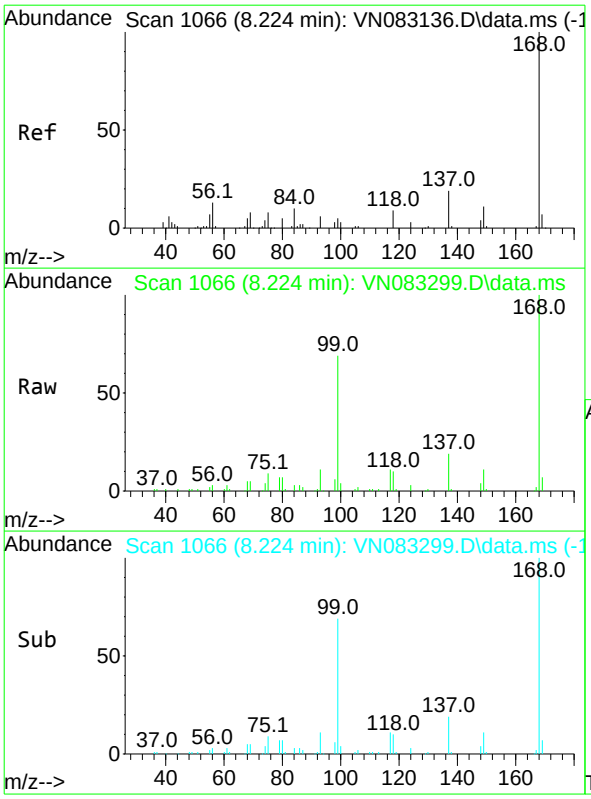
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081424\
Data File : VN083299.D
Acq On : 14 Aug 2024 14:27
Operator : JC\MD
Sample : P3429-03DL 20X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
925-K1-WS-073124DL

Quant Time: Aug 14 23:23:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration



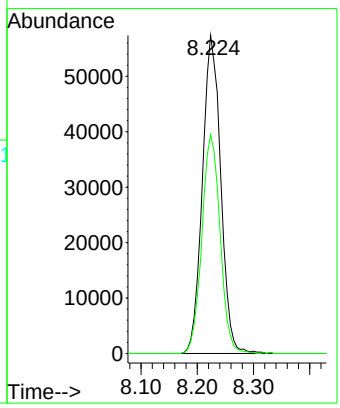


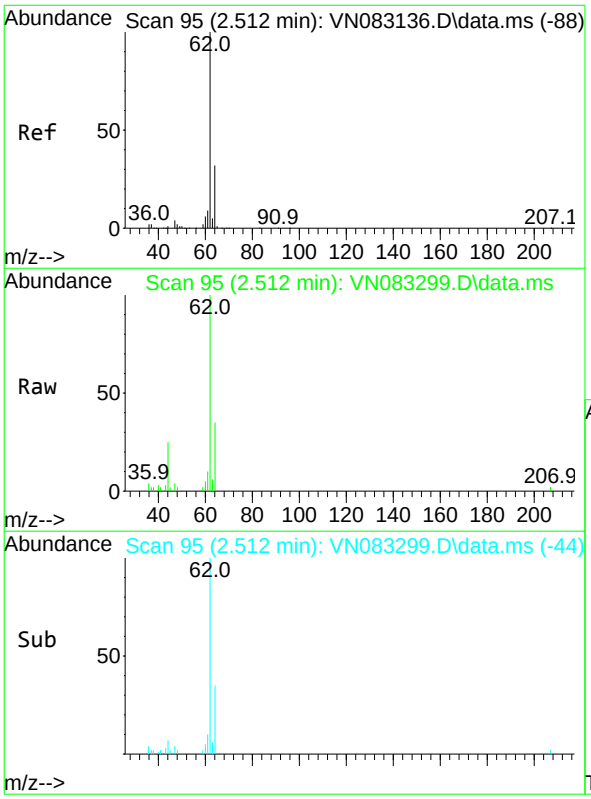
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN083299.D
Acq: 14 Aug 2024 14:27

Instrument :
MSVOA_N
ClientSampleId :
925-K1-WS-073124DL

Tgt Ion:168 Resp: 130132

Ion	Ratio	Lower	Upper
168	100		
99	68.8	48.2	72.4

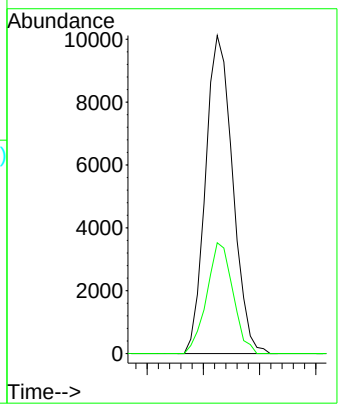


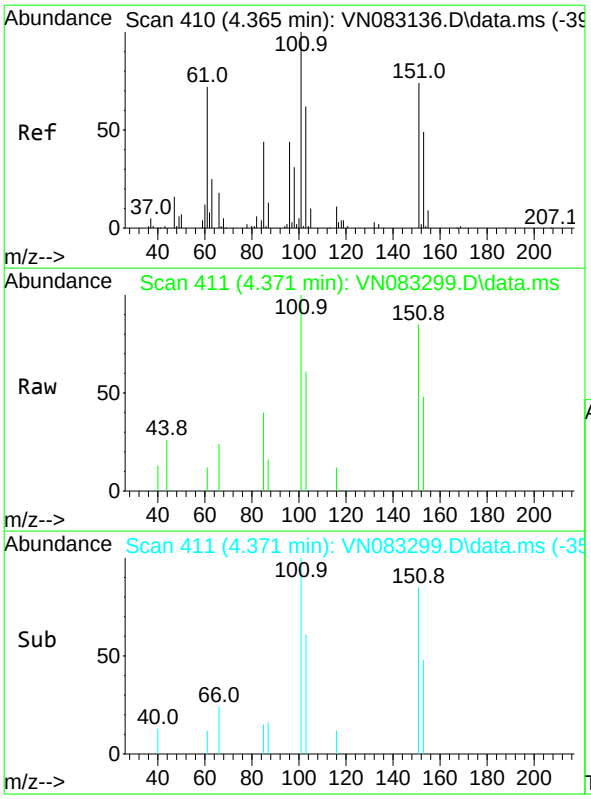


#4
Vinyl Chloride
Concen: 11.009 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083299.D
Acq: 14 Aug 2024 14:27

Tgt Ion: 62 Resp: 16972

Ion	Ratio	Lower	Upper
62	100		
64	34.8	25.0	37.6



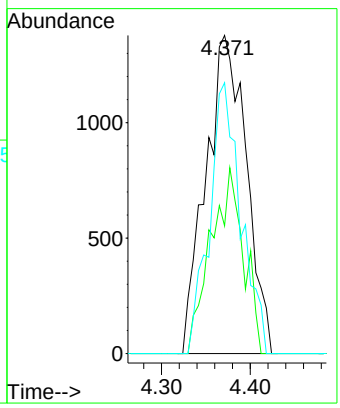


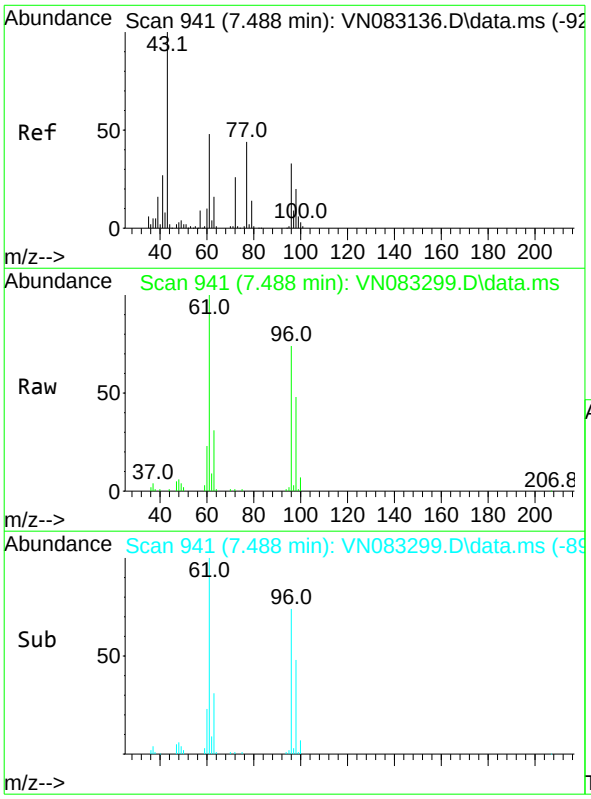
#9
1,1,2-Trichlorotrifluoroethane
Concen: 3.112 ug/l
RT: 4.371 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN083299.D
Acq: 14 Aug 2024 14:27

Instrument :
MSVOA_N
ClientSampleId :
925-K1-WS-073124DL

Tgt Ion:101 Resp: 4370

Ion	Ratio	Lower	Upper
101	100		
85	46.9	38.3	57.5
151	65.9	59.3	88.9

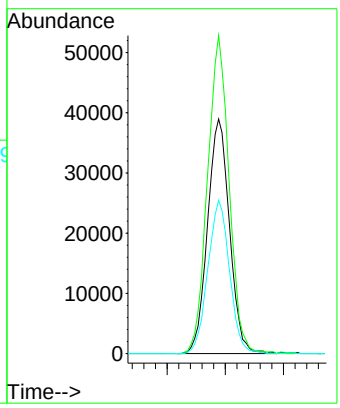


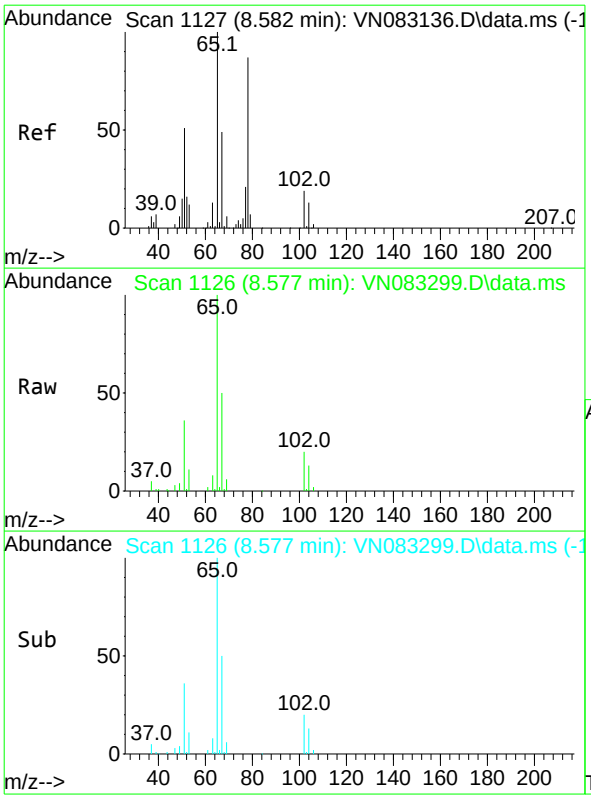


#27
cis-1,2-Dichloroethene
Concen: 56.742 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN083299.D
Acq: 14 Aug 2024 14:27

Tgt Ion: 96 Resp: 102086

Ion	Ratio	Lower	Upper
96	100		
61	133.3	0.0	329.6
98	64.5	0.0	128.6



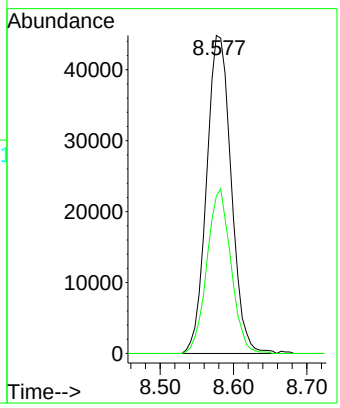


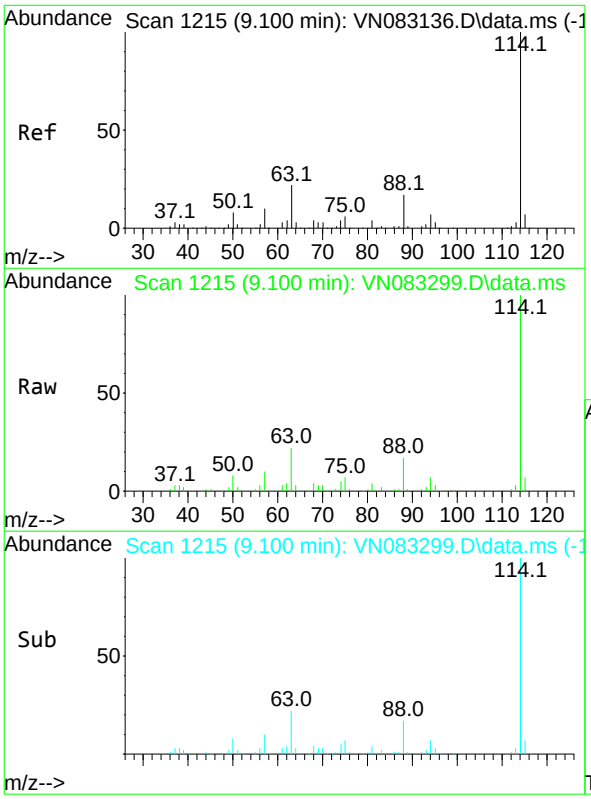
#33
1,2-Dichloroethane-d4
Concen: 56.379 ug/l
RT: 8.577 min Scan# 11
Delta R.T. -0.005 min
Lab File: VN083299.D
Acq: 14 Aug 2024 14:27

Instrument :
MSVOA_N
ClientSampleId :
925-K1-WS-073124DL

Tgt Ion: 65 Resp: 104430

Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	104.4

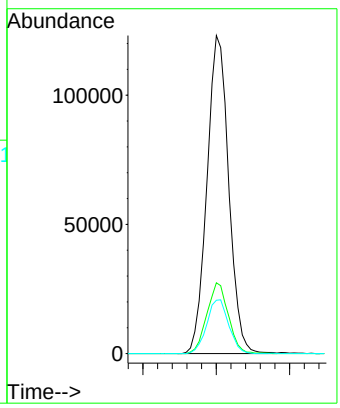


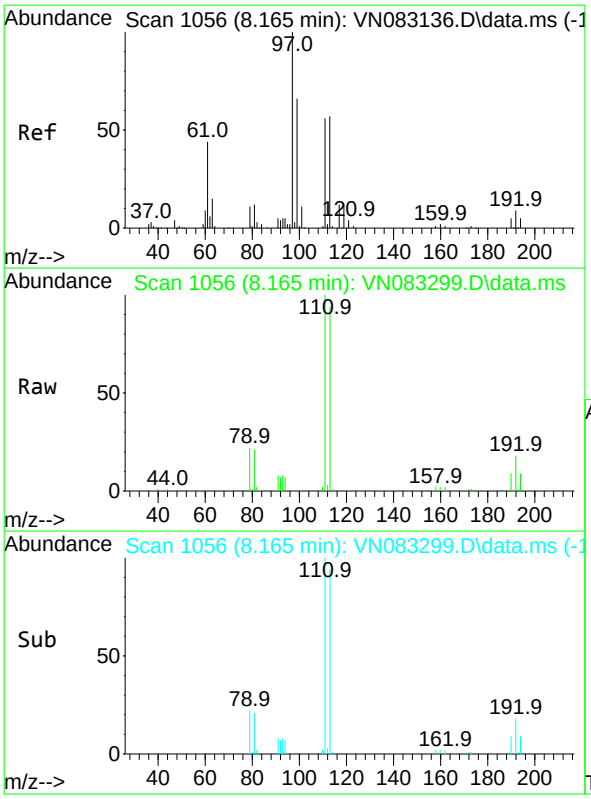


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN083299.D
Acq: 14 Aug 2024 14:27

Tgt Ion:114 Resp: 253353

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	44.6
88	16.8	0.0	31.4



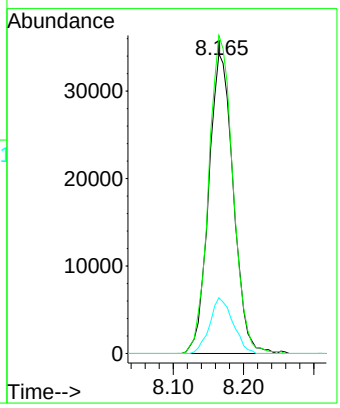


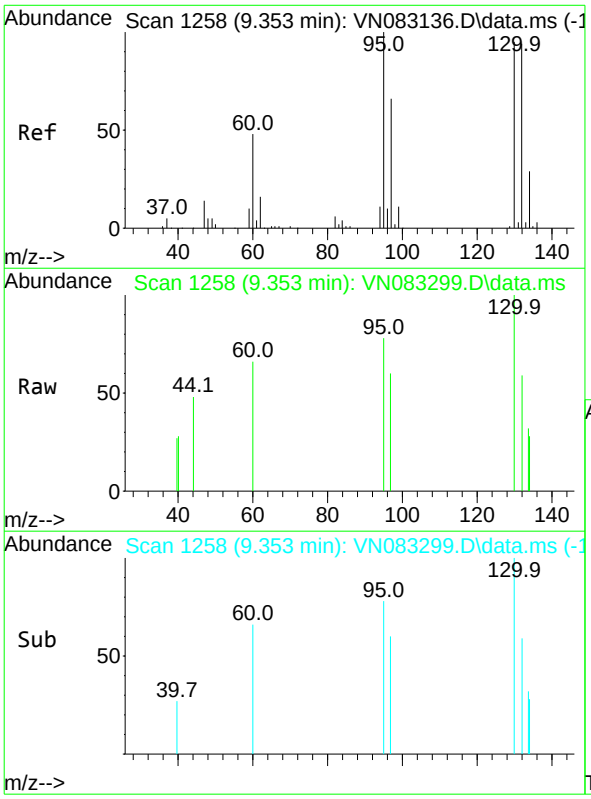
#35
Dibromofluoromethane
Concen: 52.697 ug/l
RT: 8.165 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN083299.D
Acq: 14 Aug 2024 14:27

Instrument :
MSVOA_N
ClientSampleId :
925-K1-WS-073124DL

Tgt Ion:113 Resp: 83334

Ion	Ratio	Lower	Upper
113	100		
111	104.8	82.4	123.6
192	17.6	14.9	22.3

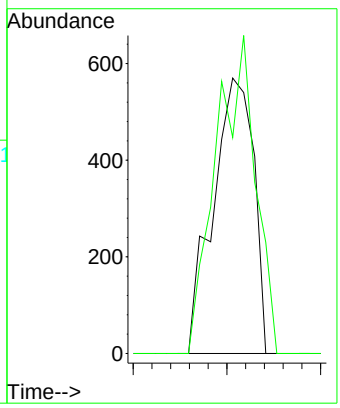


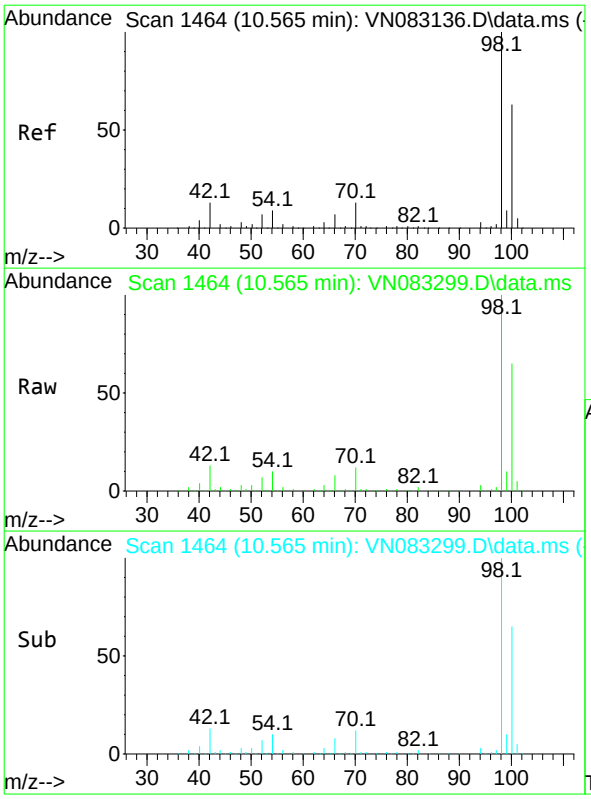


#44
Trichloroethene
Concen: 0.506 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.000 min
Lab File: VN083299.D
Acq: 14 Aug 2024 14:27

Tgt Ion:130 Resp: 859

Ion	Ratio	Lower	Upper
130	100		
95	78.4	0.0	197.8



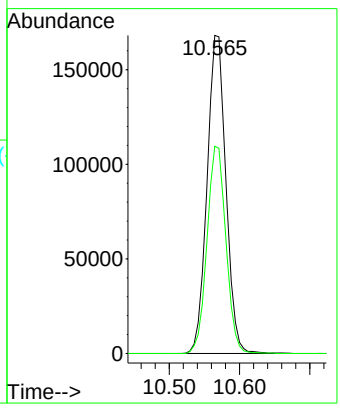


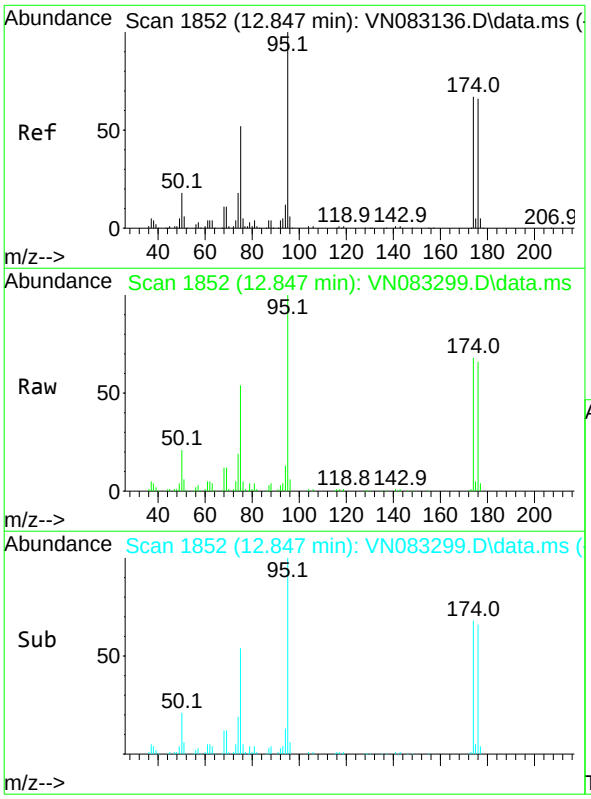
#50
Toluene-d8
Concen: 53.137 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN083299.D
Acq: 14 Aug 2024 14:27

Instrument :
MSVOA_N
ClientSampleId :
925-K1-WS-073124DL

Tgt Ion: 98 Resp: 313451

Ion	Ratio	Lower	Upper
98	100		
100	65.5	51.5	77.3

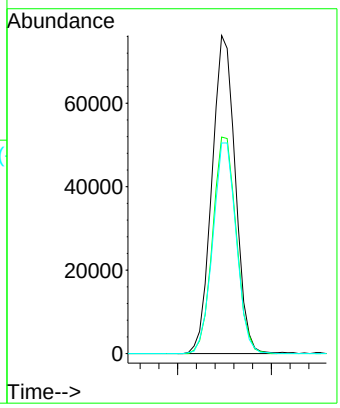


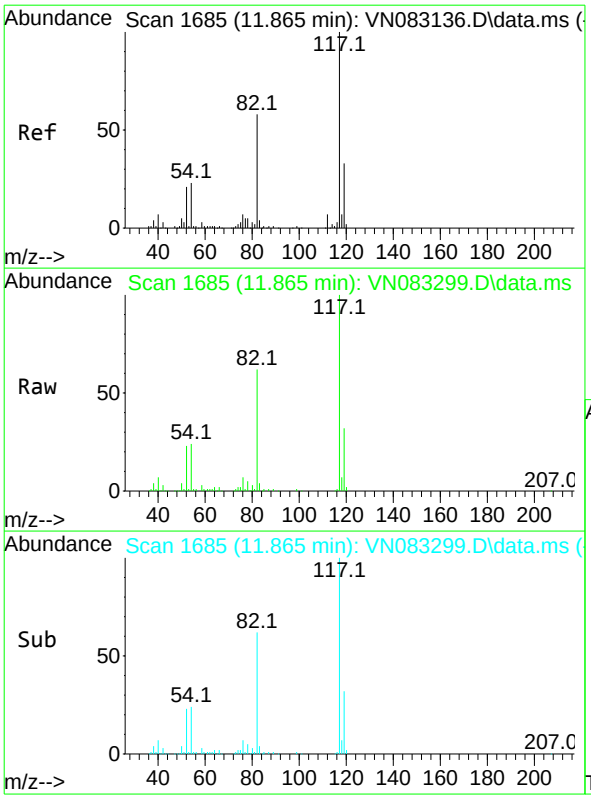


#62
4-Bromofluorobenzene
Concen: 57.391 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083299.D
Acq: 14 Aug 2024 14:27

Tgt Ion: 95 Resp: 131983

Ion	Ratio	Lower	Upper
95	100		
174	68.7	0.0	159.2
176	66.4	0.0	147.6



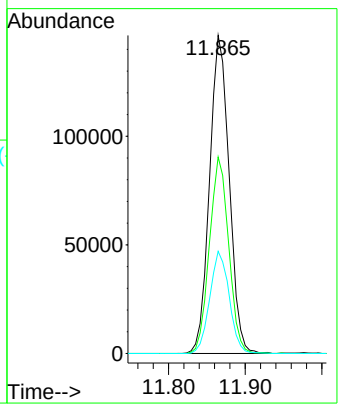


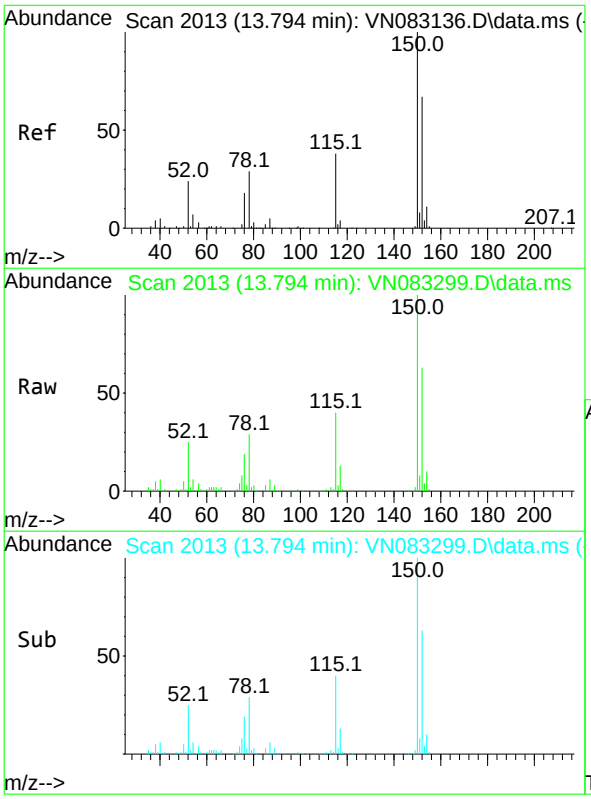
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN083299.D
Acq: 14 Aug 2024 14:27

Instrument :
MSVOA_N
ClientSampleId :
925-K1-WS-073124DL

Tgt Ion:117 Resp: 260285

Ion	Ratio	Lower	Upper
117	100		
82	61.8	47.5	71.3
119	32.1	25.6	38.4

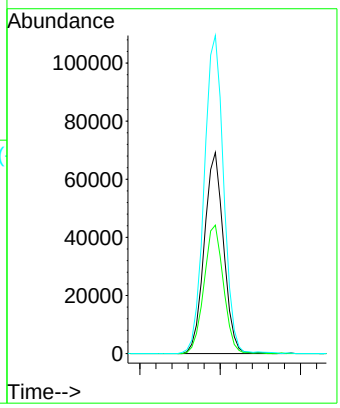




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083299.D
Acq: 14 Aug 2024 14:27

Tgt Ion:152 Resp: 115317

Ion	Ratio	Lower	Upper
152	100		
115	64.3	30.6	91.6
150	159.2	0.0	348.6



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:	07/31/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	07/31/24
Client Sample ID:	TB-01-073124	SDG No.:	P3429
Lab Sample ID:	P3429-04	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
VN083256.D	1		08/13/24 14:31	VN081324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	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
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
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

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:	07/31/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	07/31/24
Client Sample ID:	TB-01-073124	SDG No.:	P3429
Lab Sample ID:	P3429-04	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
VN083256.D	1		08/13/24 14:31	VN081324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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	55.8		70 (74) - 130 (125)	112%	SPK: 50
1868-53-7	Dibromofluoromethane	52.1		70 (75) - 130 (124)	104%	SPK: 50
2037-26-5	Toluene-d8	53.2		70 (86) - 130 (113)	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	57.4		70 (77) - 130 (121)	115%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	147000	8.224			
540-36-3	1,4-Difluorobenzene	284000	9.1			
3114-55-4	Chlorobenzene-d5	292000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	131000	13.794			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083256.D
Acq On : 13 Aug 2024 14:31
Operator : JC\MD
Sample : P3429-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-01-073124

Quant Time: Aug 14 01:44:50 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

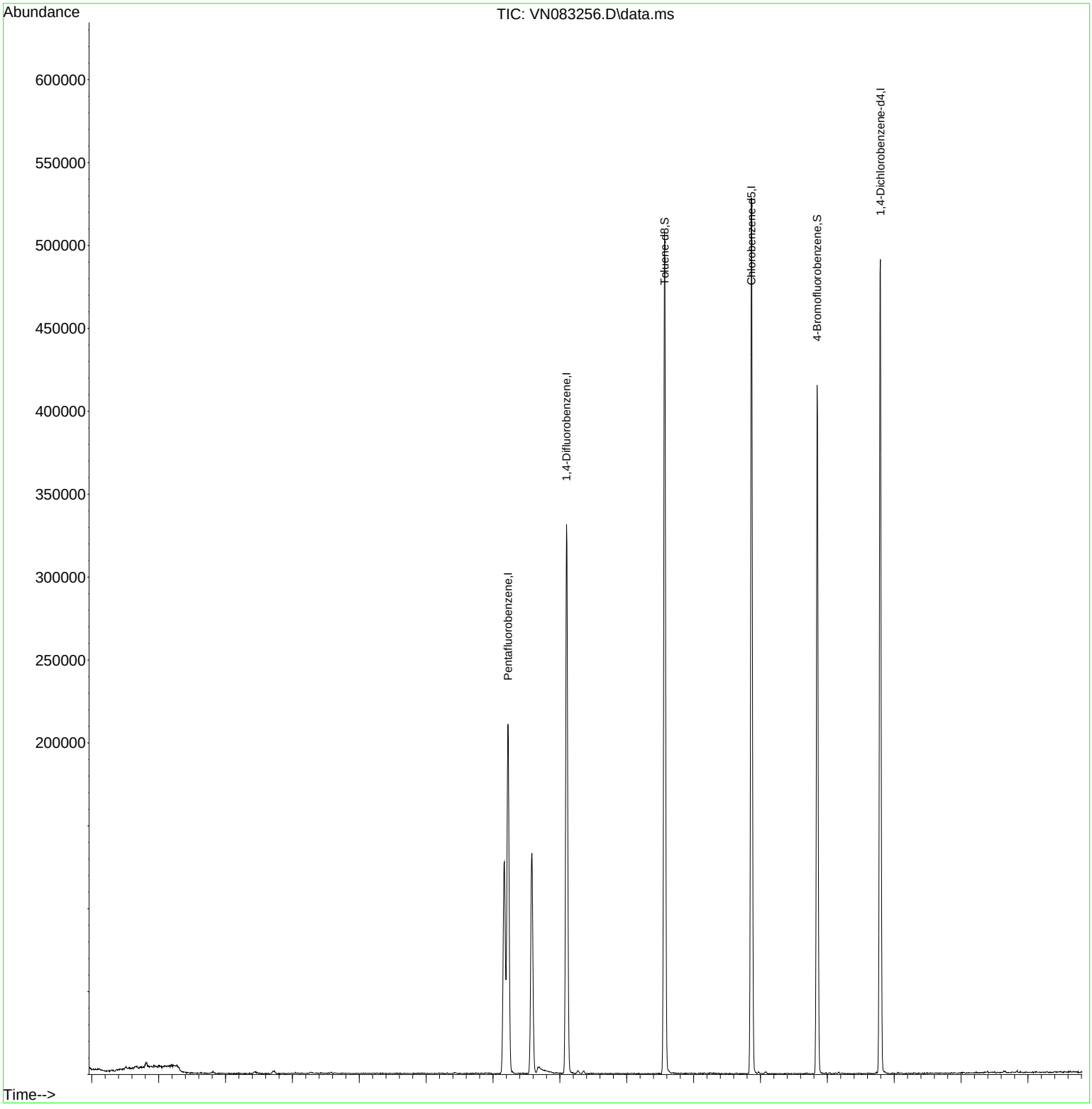
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	147065	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	284471	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	291862	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	130851	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	116829	55.811	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.620%			
35) Dibromofluoromethane	8.171	113	92438	52.060	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.120%			
50) Toluene-d8	10.565	98	352167	53.170	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.340%			
62) 4-Bromofluorobenzene	12.847	95	148227	57.403	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 114.800%			
Target Compounds						Qvalue

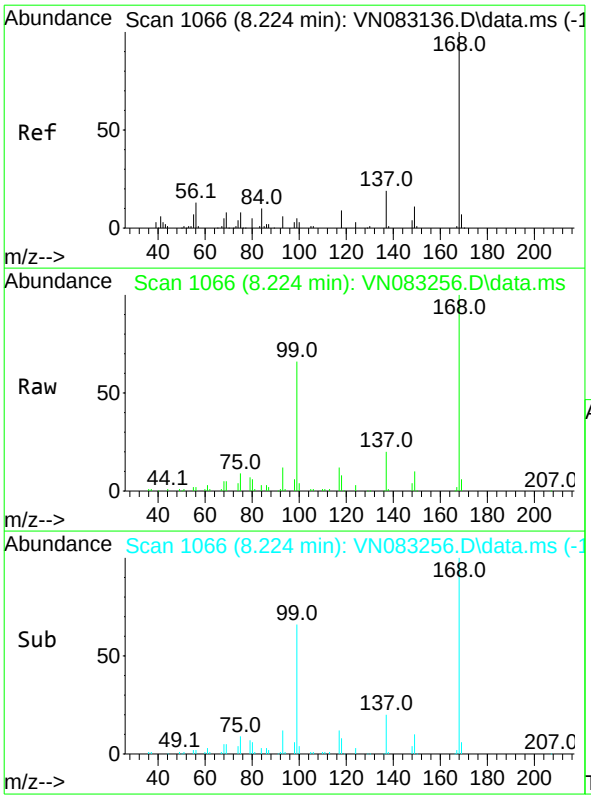
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083256.D
Acq On : 13 Aug 2024 14:31
Operator : JC\MD
Sample : P3429-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-01-073124

Quant Time: Aug 14 01:44:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration



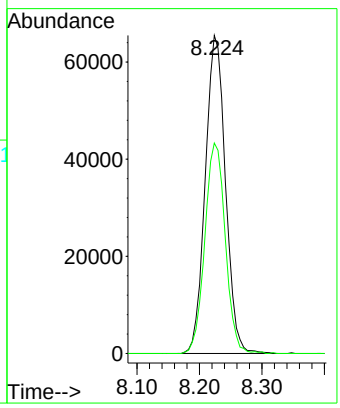


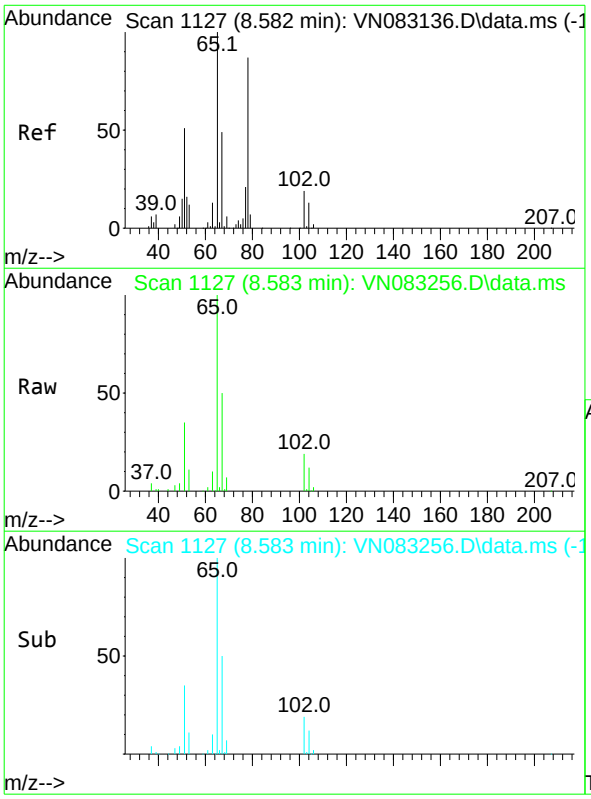
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN083256.D
Acq: 13 Aug 2024 14:31

Instrument :
MSVOA_N
ClientSampleId :
TB-01-073124

Tgt Ion:168 Resp: 147065

Ion	Ratio	Lower	Upper
168	100		
99	66.2	48.2	72.4

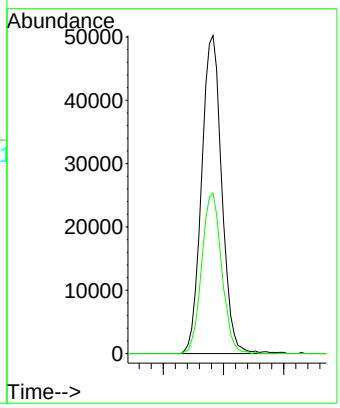


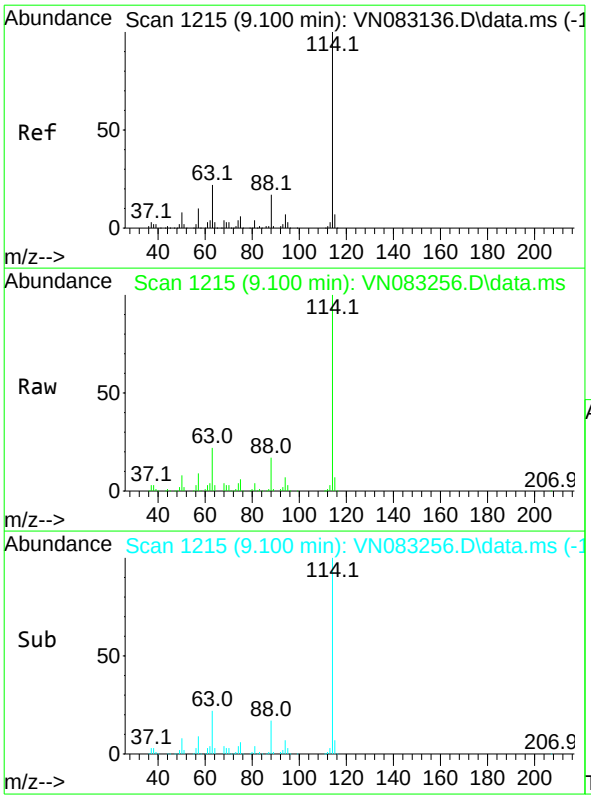


#33
1,2-Dichloroethane-d4
Concen: 55.811 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN083256.D
Acq: 13 Aug 2024 14:31

Tgt Ion: 65 Resp: 116829

Ion	Ratio	Lower	Upper
65	100		
67	50.0	0.0	104.4



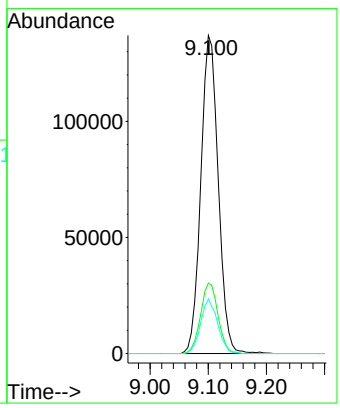


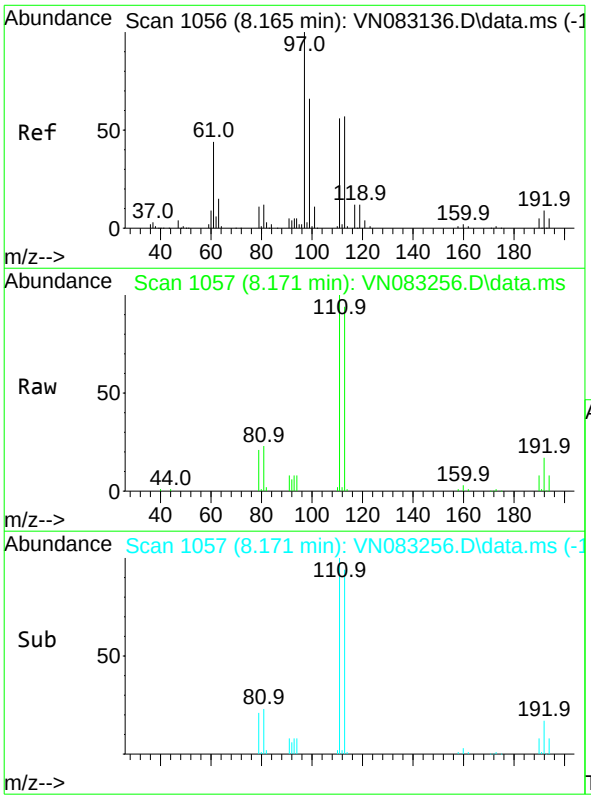
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. 0.000 min
Lab File: VN083256.D
Acq: 13 Aug 2024 14:31

Instrument :
MSVOA_N
ClientSampleId :
TB-01-073124

Tgt Ion:114 Resp: 284471

Ion	Ratio	Lower	Upper
114	100		
63	22.1	0.0	44.6
88	17.2	0.0	31.4

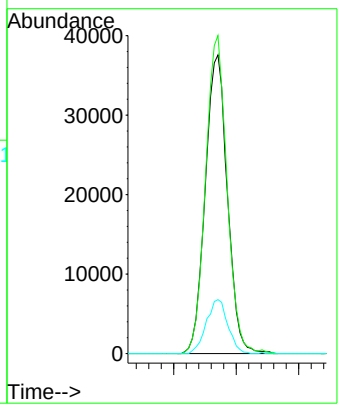


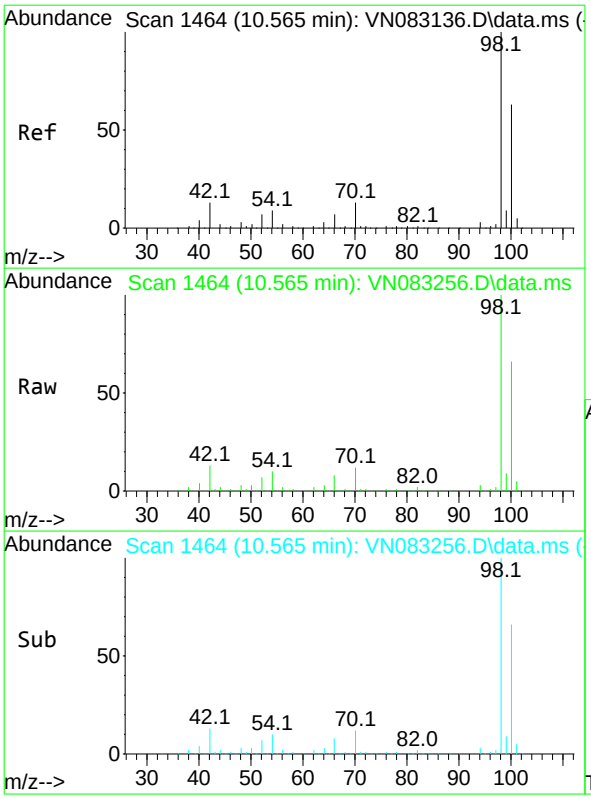


#35
Dibromofluoromethane
Concen: 52.060 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN083256.D
Acq: 13 Aug 2024 14:31

Tgt Ion:113 Resp: 92438

Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.4	123.6
192	17.6	14.9	22.3



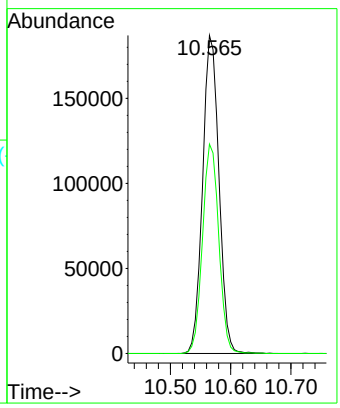


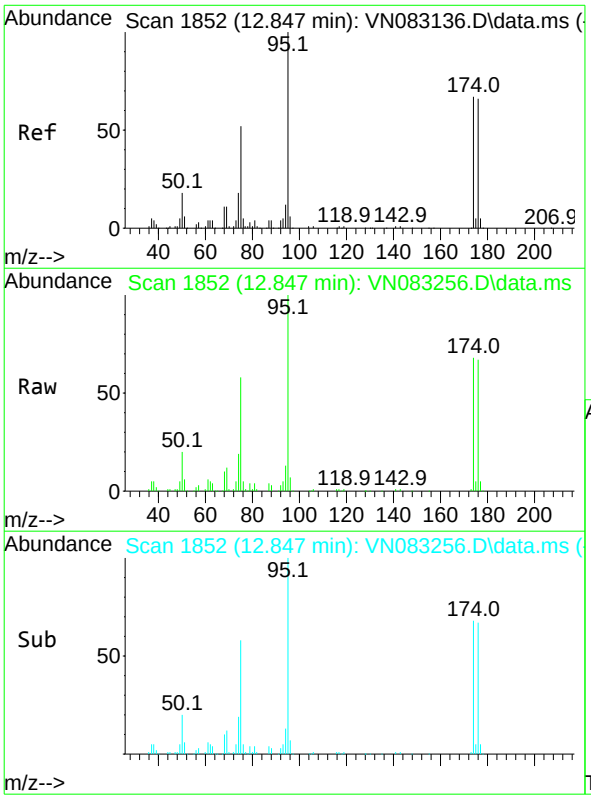
#50
Toluene-d8
Concen: 53.170 ug/l
RT: 10.565 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN083256.D
Acq: 13 Aug 2024 14:31

Instrument :
MSVOA_N
ClientSampleId :
TB-01-073124

Tgt Ion: 98 Resp: 352167

Ion	Ratio	Lower	Upper
98	100		
100	65.6	51.5	77.3

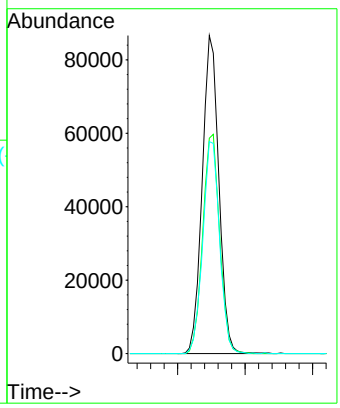


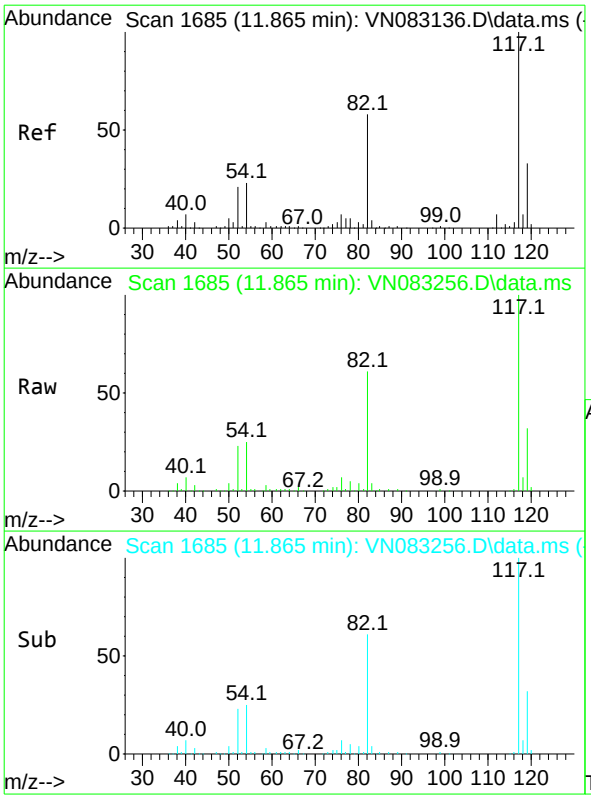


#62
4-Bromofluorobenzene
Concen: 57.403 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083256.D
Acq: 13 Aug 2024 14:31

Tgt Ion: 95 Resp: 148227

Ion	Ratio	Lower	Upper
95	100		
174	70.0	0.0	159.2
176	67.4	0.0	147.6



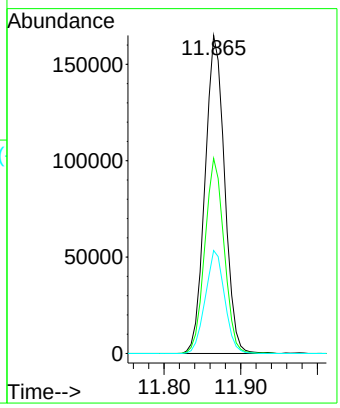


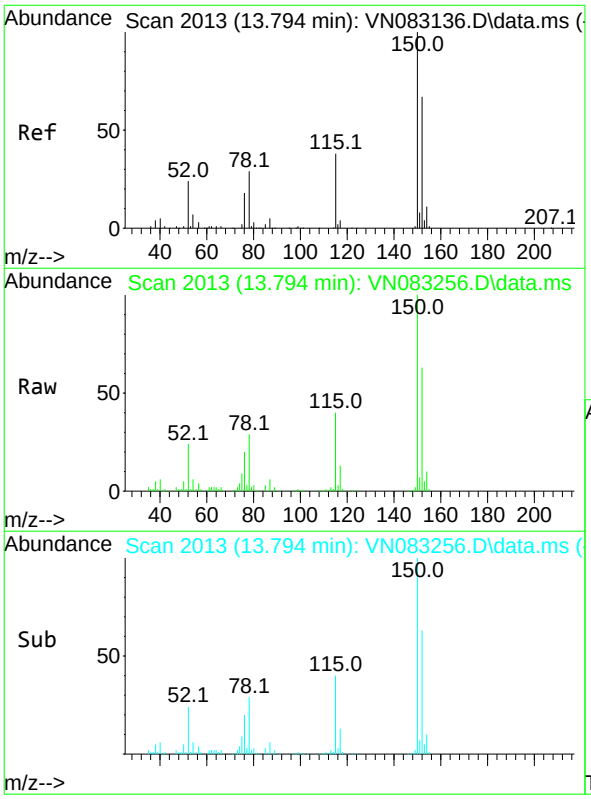
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN083256.D
Acq: 13 Aug 2024 14:31

Instrument :
MSVOA_N
ClientSampleId :
TB-01-073124

Tgt Ion:117 Resp: 291862

Ion	Ratio	Lower	Upper
117	100		
82	61.4	47.5	71.3
119	32.4	25.6	38.4

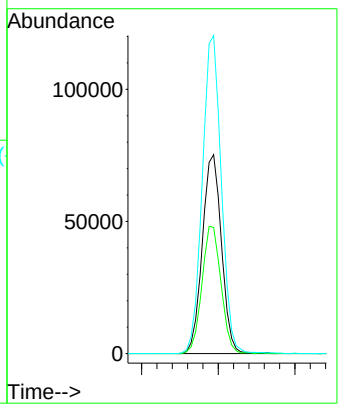




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083256.D
Acq: 13 Aug 2024 14:31

Tgt Ion:152 Resp: 130851

Ion	Ratio	Lower	Upper
152	100		
115	63.6	30.6	91.6
150	158.5	0.0	348.6



CALIBRATION SUMMARY

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.: P3429 SAS No.: P3429 SDG No.: P3429

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
1,1,2-Trichlorotrifluoroethane	0.524	0.548	0.548	0.550	0.558	0.510	0.539	3.4
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
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
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

* 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.: P3429 SAS No.: P3429 SDG No.: P3429

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
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

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

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

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

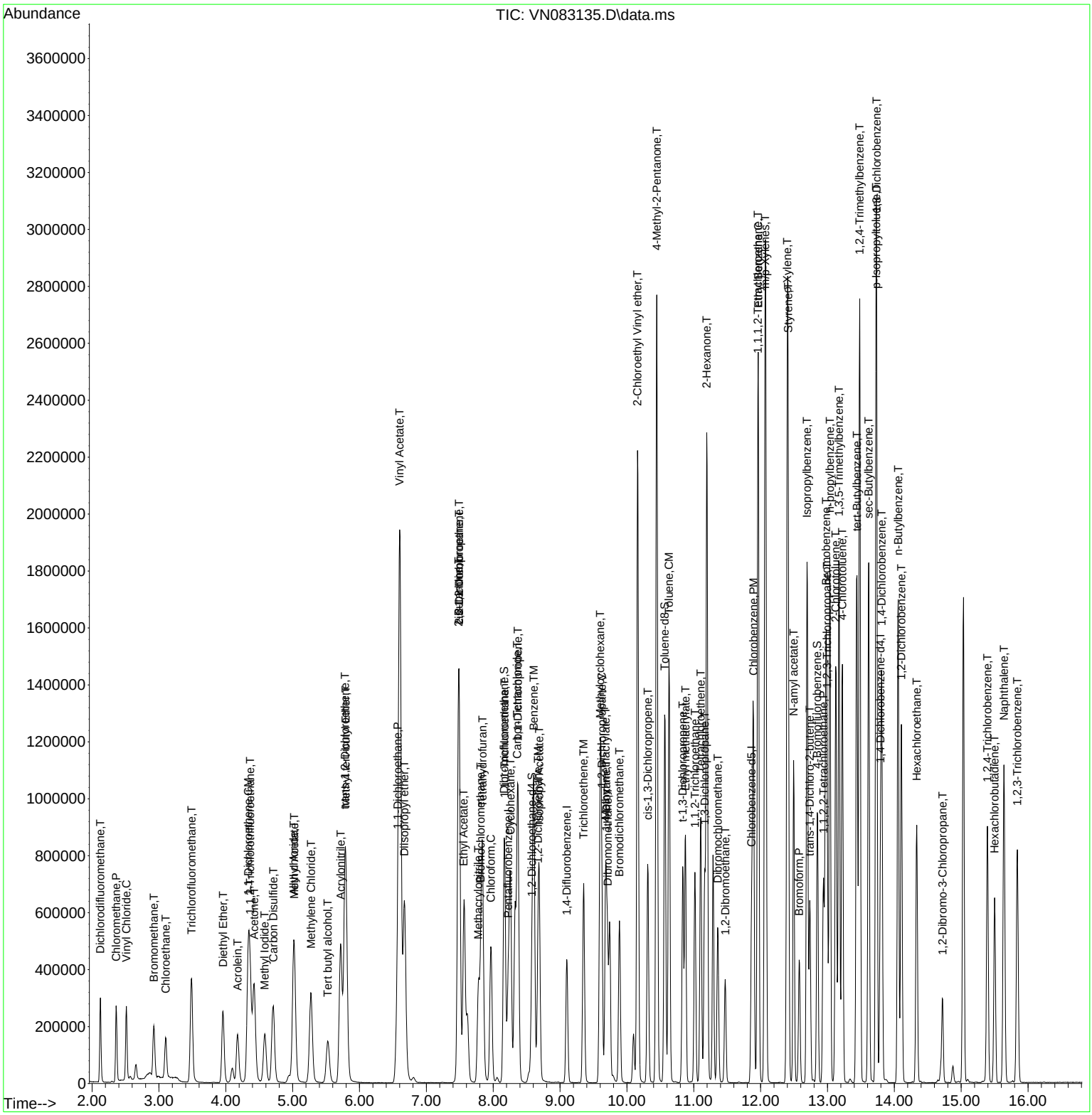
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083135.D
Acq On : 07 Aug 2024 10:33
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

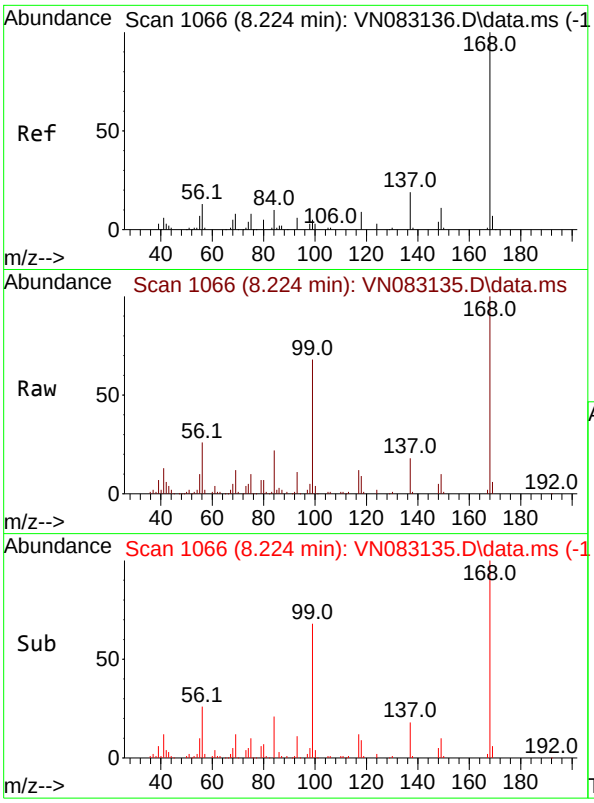
Quant Time: Aug 08 06:14:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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

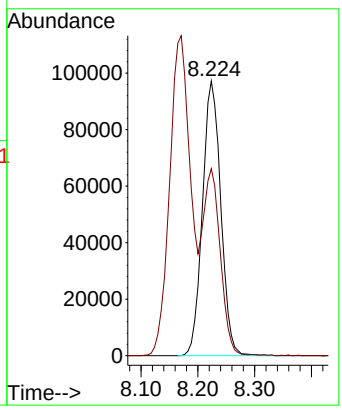




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:168 Resp: 21731

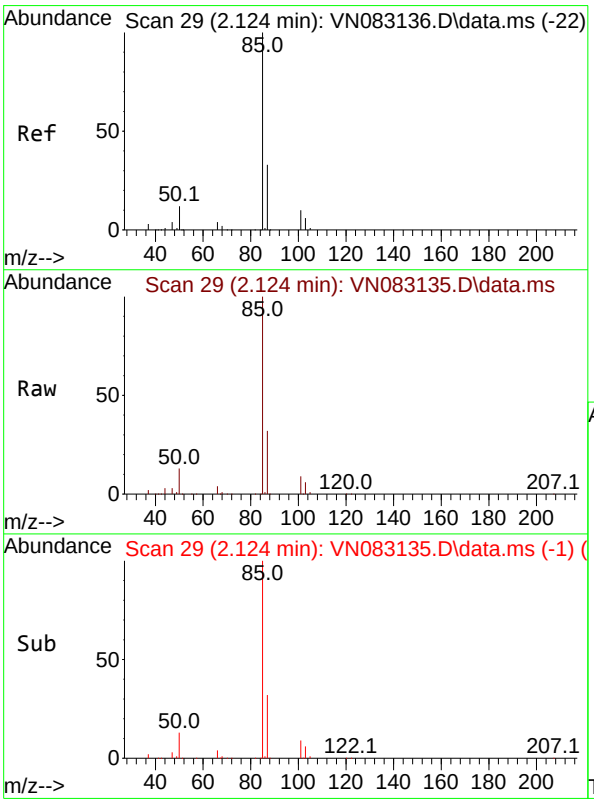
Ion	Ratio	Lower	Upper
168	100		
99	68.1	48.2	72.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

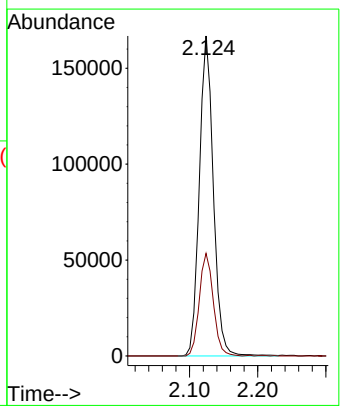
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

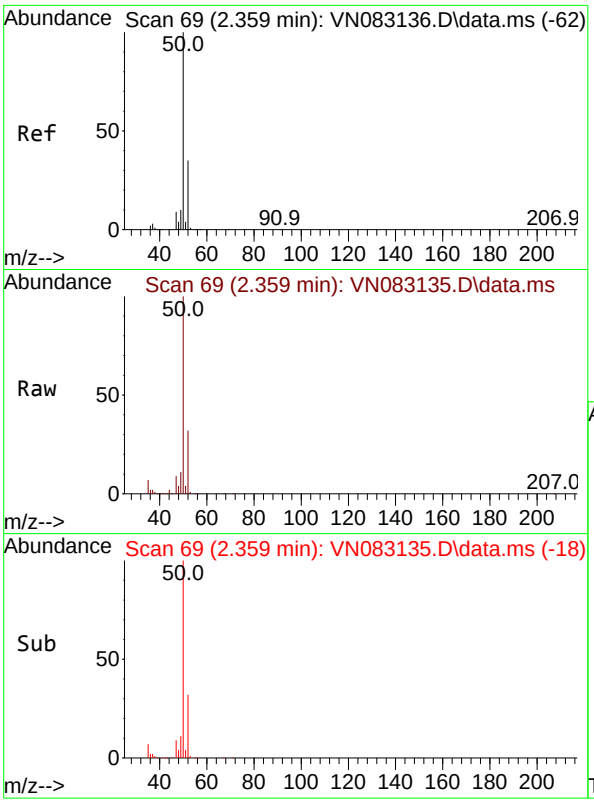


#2
Dichlorodifluoromethane
Concen: 96.624 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 85 Resp: 238119

Ion	Ratio	Lower	Upper
85	100		
87	32.1	15.7	47.0

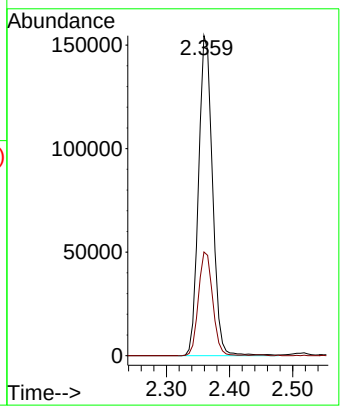




#3
Chloromethane
Concen: 94.185 ug/l
RT: 2.359 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 50 Resp: 23763

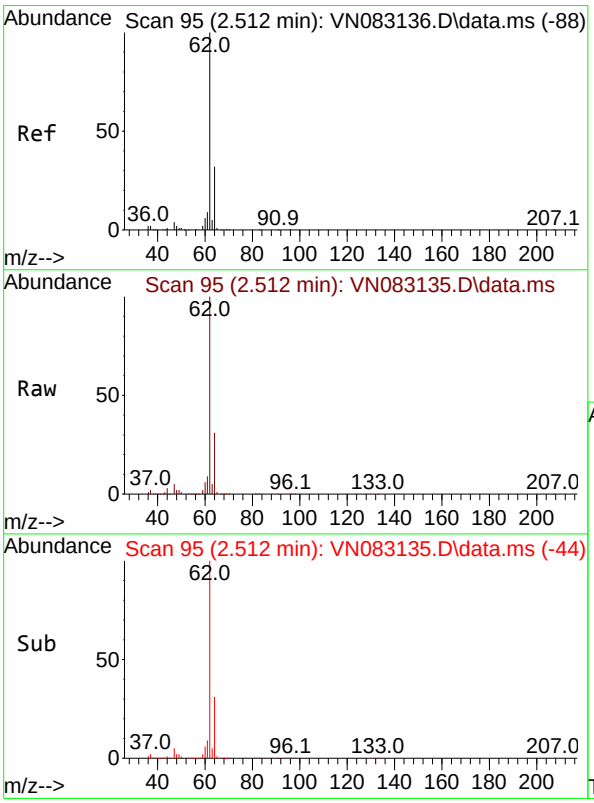
Ion	Ratio	Lower	Upper
50	100		
52	32.4	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

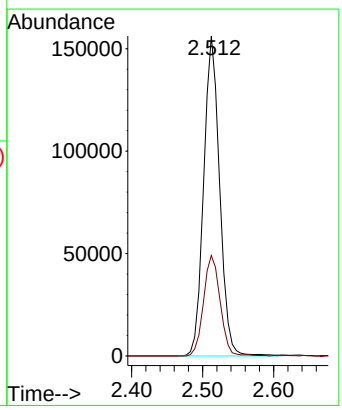
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

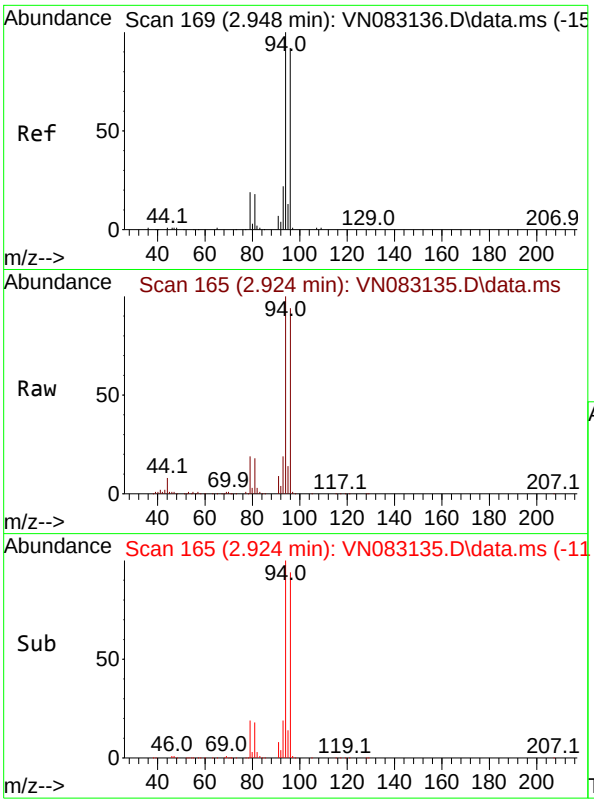


#4
Vinyl Chloride
Concen: 94.904 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 62 Resp: 244329

Ion	Ratio	Lower	Upper
62	100		
64	31.4	25.0	37.6

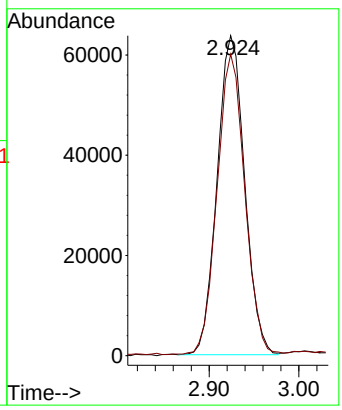




#5
Bromomethane
Concen: 85.085 ug/l
RT: 2.924 min Scan# 1
Delta R.T. -0.024 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 94 Resp: 13592

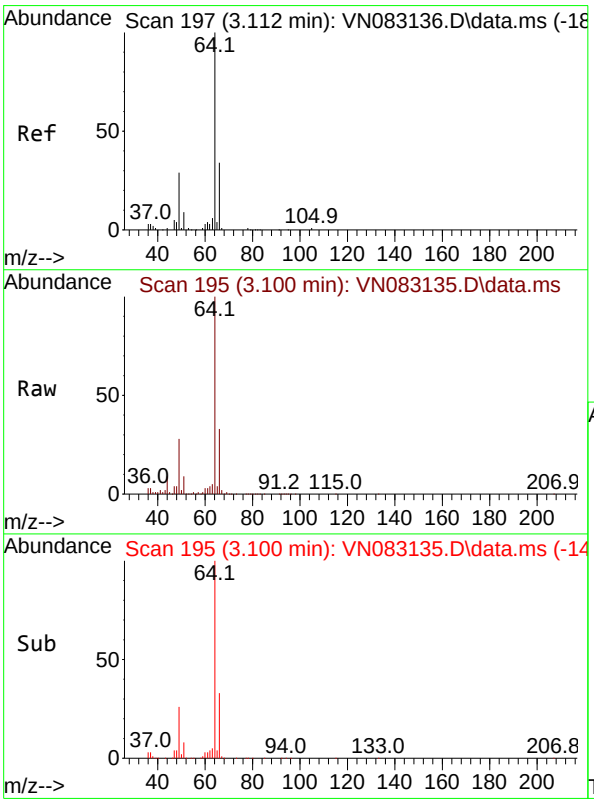
Ion	Ratio	Lower	Upper
94	100		
96	94.0	78.0	117.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

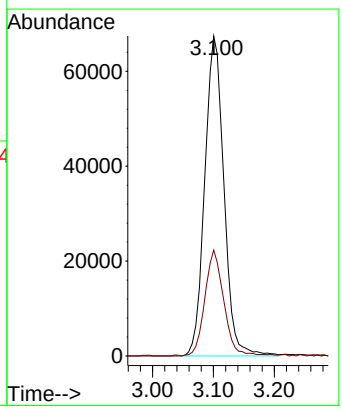
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

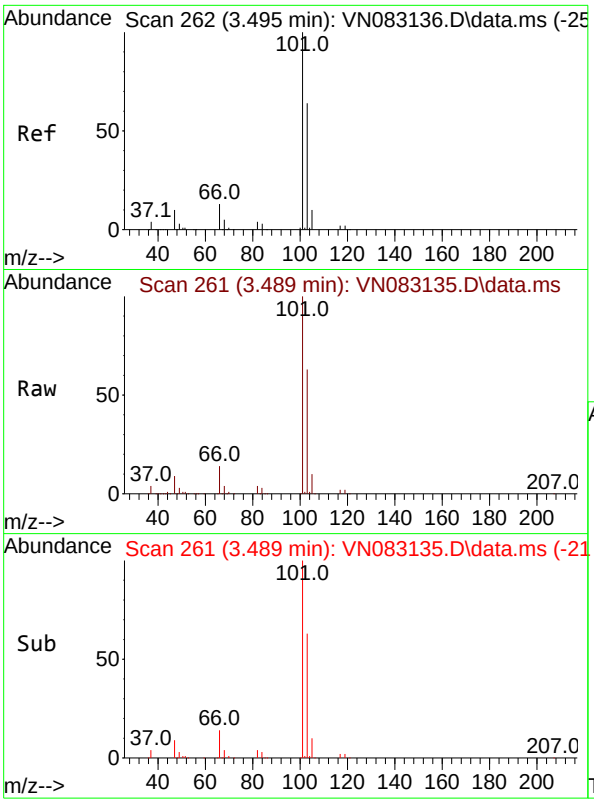


#6
Chloroethane
Concen: 91.645 ug/l
RT: 3.100 min Scan# 195
Delta R.T. -0.012 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

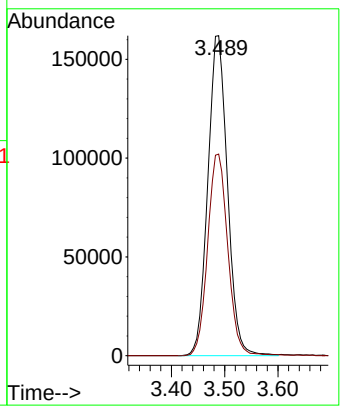
Tgt Ion:101 Resp: 41491

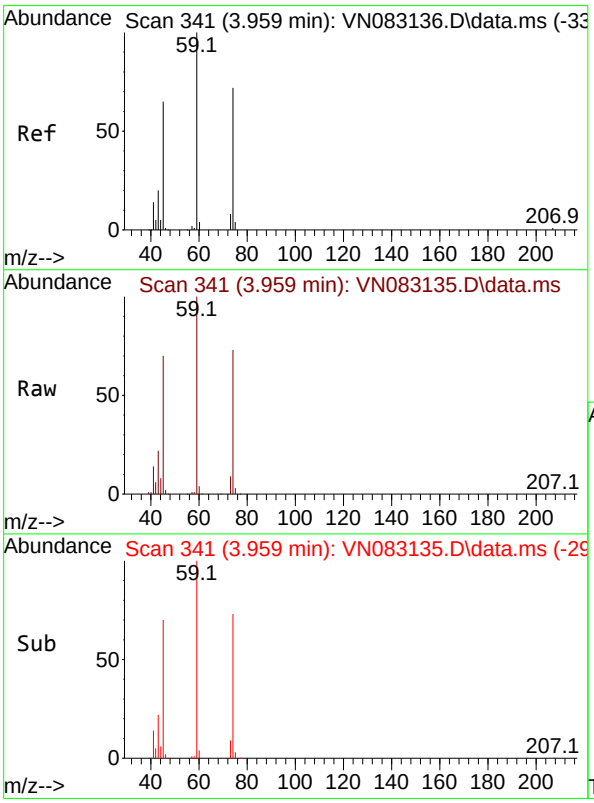
Ion	Ratio	Lower	Upper
101	100		
103	63.0	52.7	79.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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

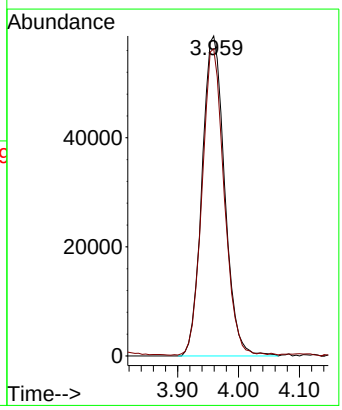


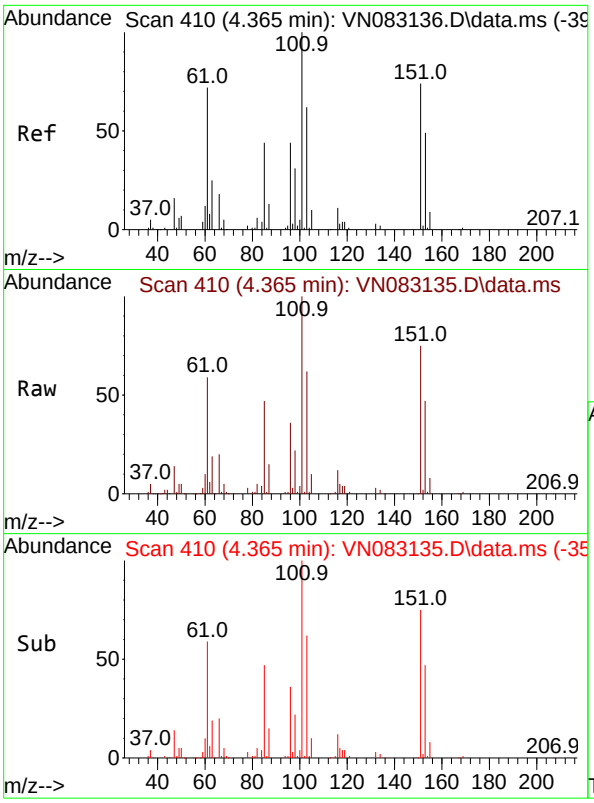


#8
Diethyl Ether
Concen: 95.597 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 74 Resp: 151291

Ion	Ratio	Lower	Upper
74	100		
45	93.4	55.5	166.3

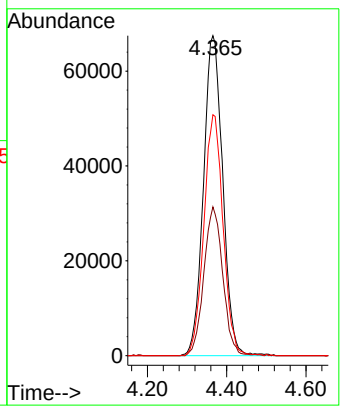




#9
1,1,2-Trichlorotrifluoroethane
Concen: 97.044 ug/l
RT: 4.365 min Scan# 4
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:101 Resp: 22755

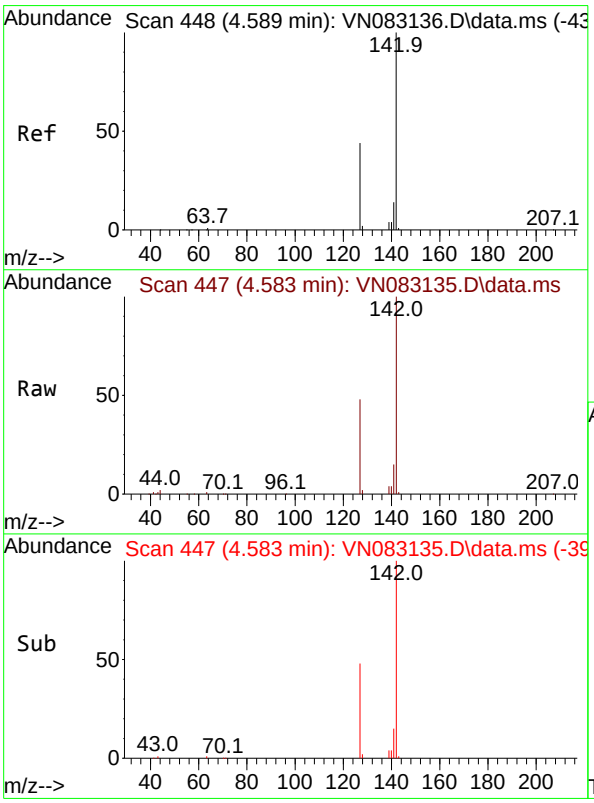
Ion	Ratio	Lower	Upper
101	100		
85	45.6	38.3	57.5
151	75.2	59.3	88.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

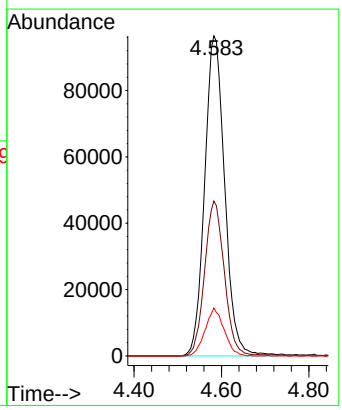
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

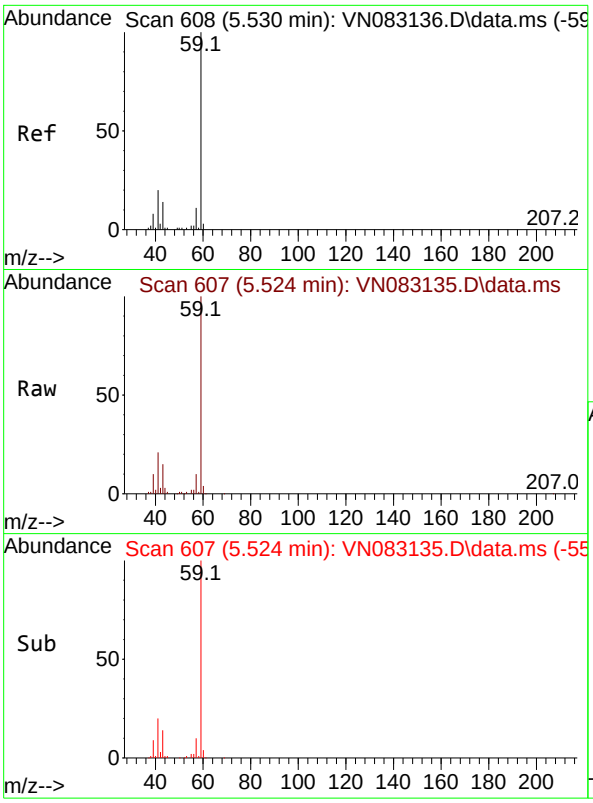


#10
Methyl Iodide
Concen: 99.686 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

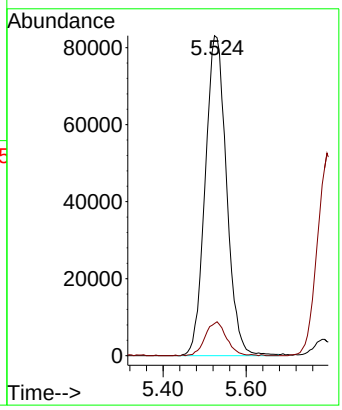




#11
Tert butyl alcohol
Concen: 461.112 ug/l
RT: 5.524 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 59 Resp: 29642

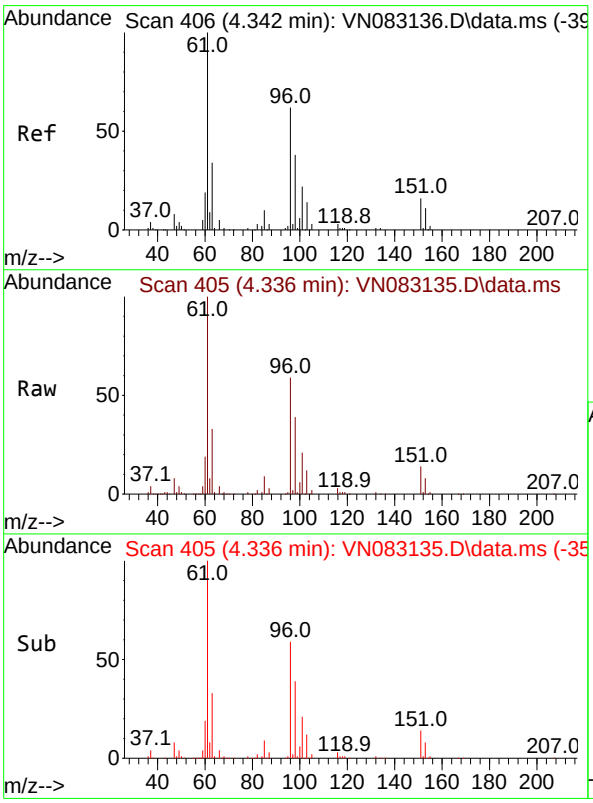
Ion	Ratio	Lower	Upper
59	100		
57	10.5	8.9	13.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

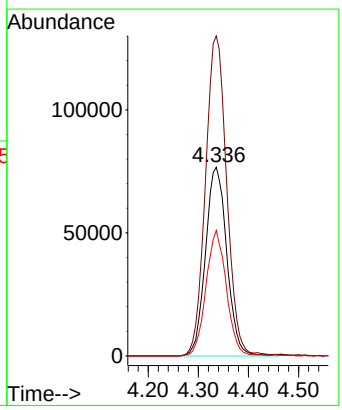
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

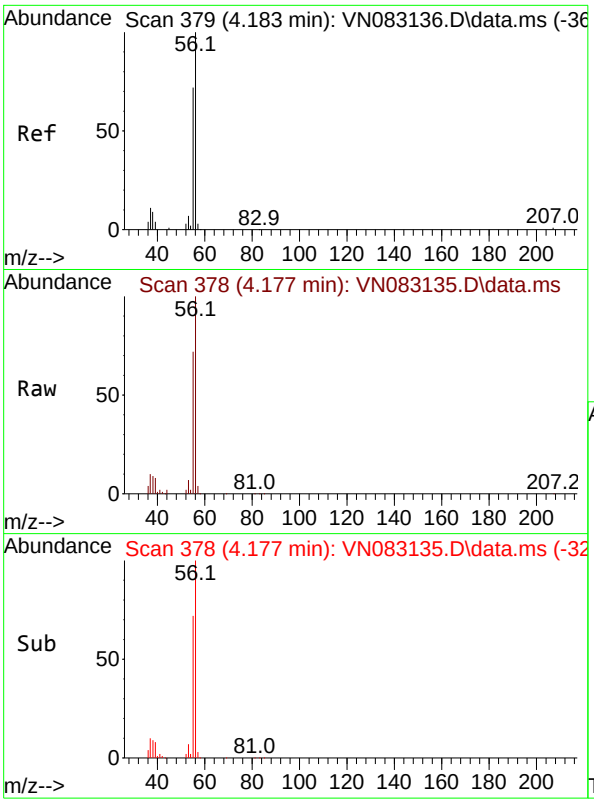


#12
1,1-Dichloroethene
Concen: 94.453 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

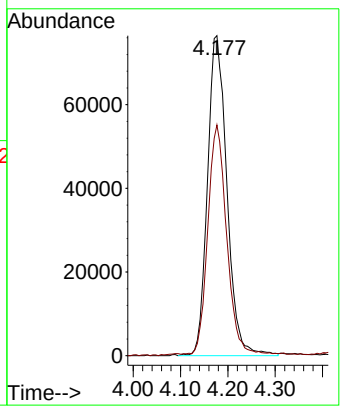




#13
Acrolein
Concen: 520.640 ug/l
RT: 4.177 min Scan# 3
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 56 Resp: 21813

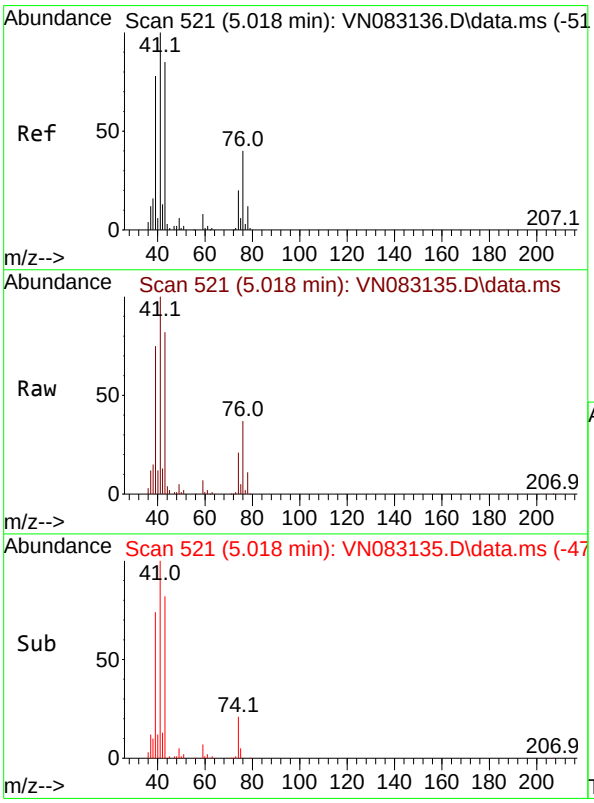
Ion	Ratio	Lower	Upper
56	100		
55	68.5	56.4	84.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

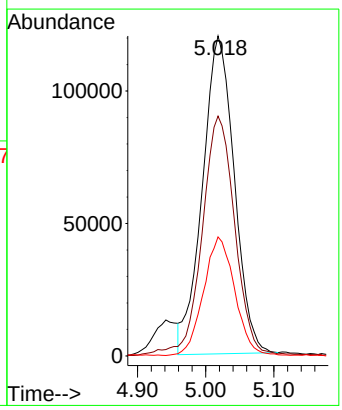
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

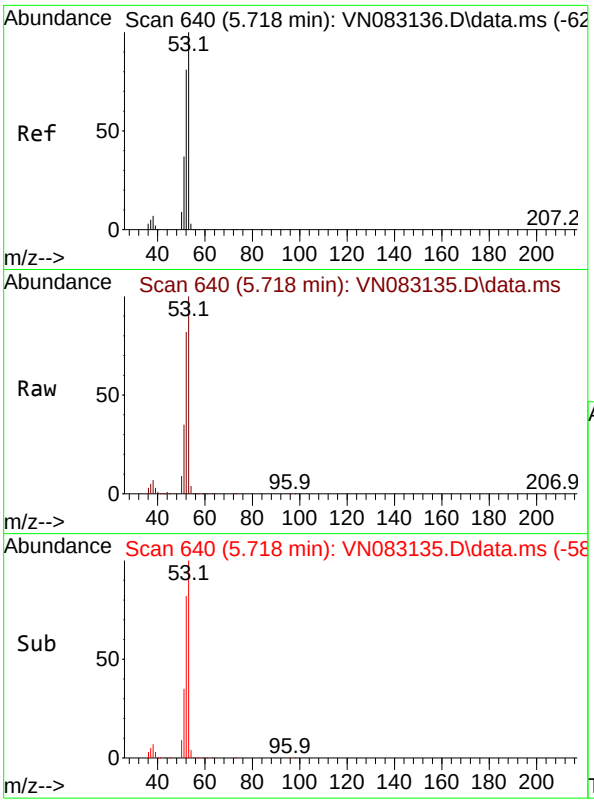


#14
Allyl chloride
Concen: 85.577 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

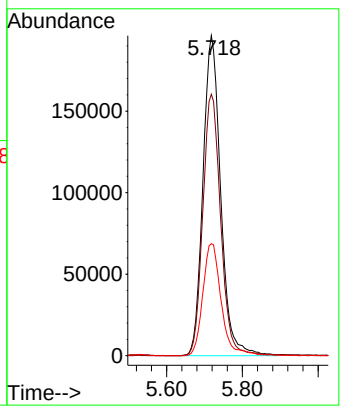




#15
Acrylonitrile
Concen: 481.734 ug/l
RT: 5.718 min Scan# 64
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 53 Resp: 63689

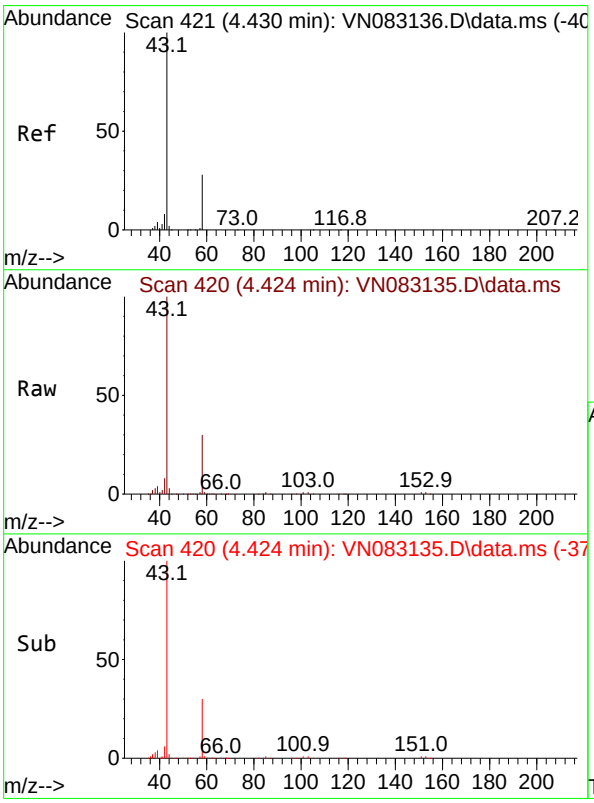
Ion	Ratio	Lower	Upper
53	100		
52	82.5	66.6	100.0
51	36.4	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

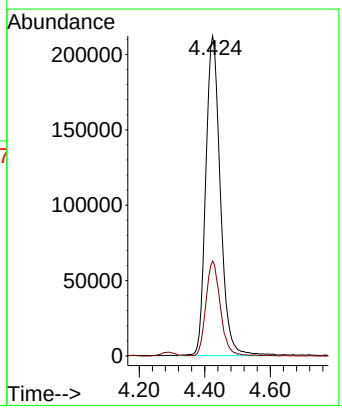
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

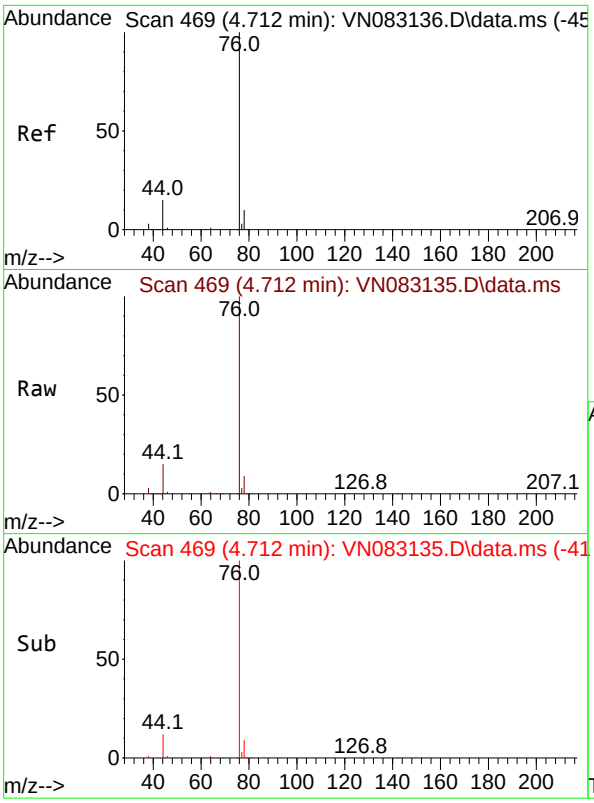


#16
Acetone
Concen: 542.264 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 43 Resp: 656348

Ion	Ratio	Lower	Upper
43	100		
58	29.7	21.8	32.6

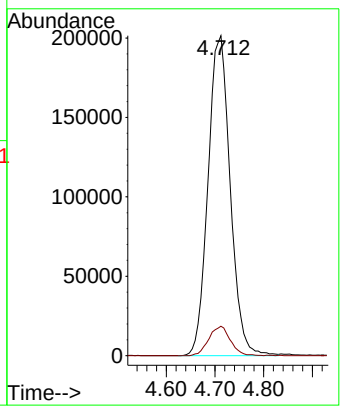




#17
Carbon Disulfide
Concen: 90.406 ug/l
RT: 4.712 min Scan# 4
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 76 Resp: 63725

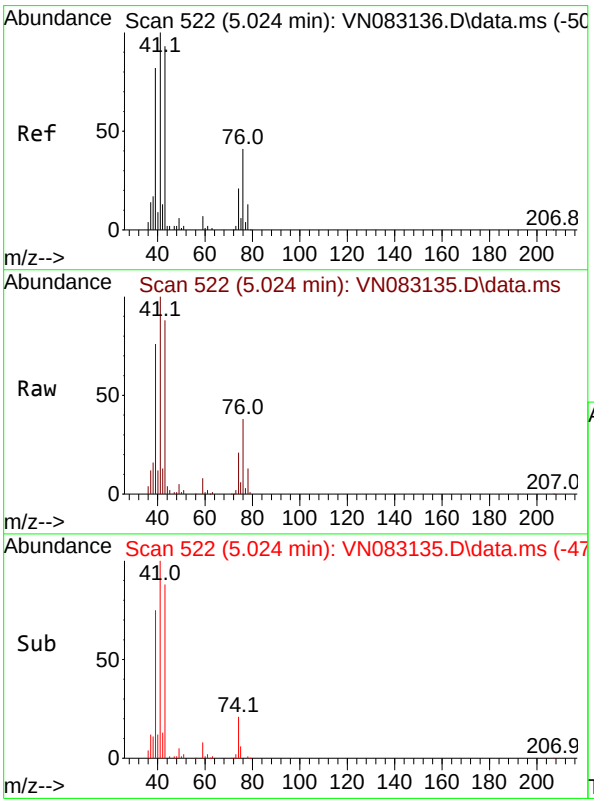
Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

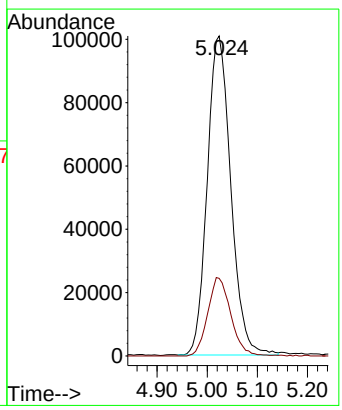
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

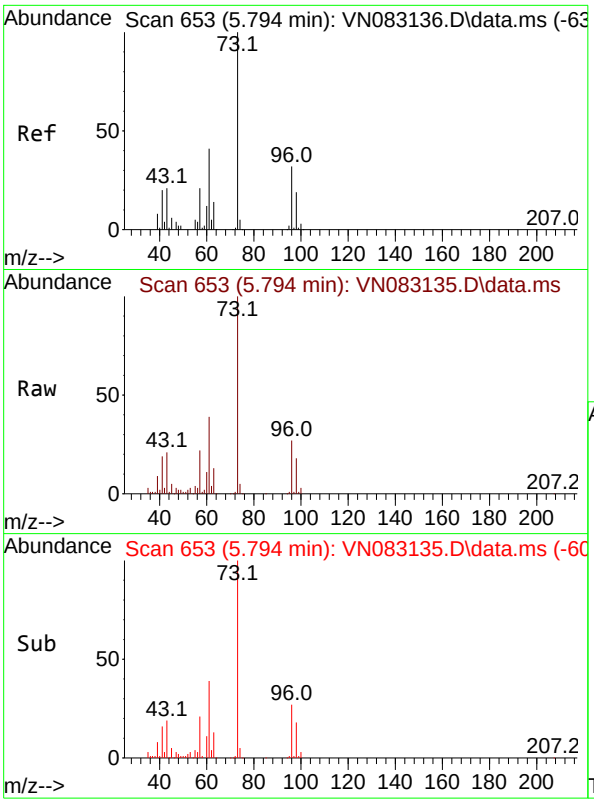


#18
Methyl Acetate
Concen: 91.357 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 43 Resp: 329457

Ion	Ratio	Lower	Upper
43	100		
74	24.0	16.3	24.5

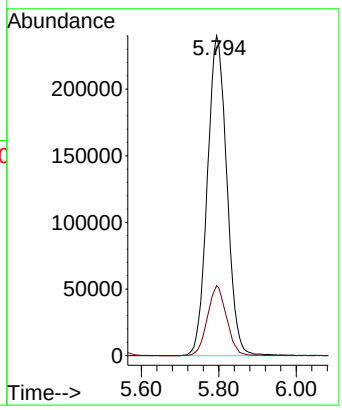




#19
Methyl tert-butyl Ether
Concen: 96.324 ug/l
RT: 5.794 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 73 Resp: 83756

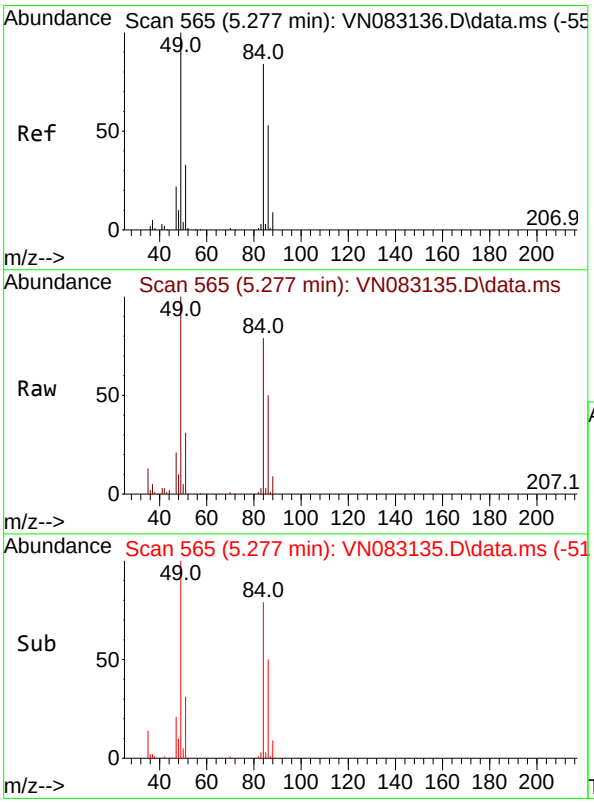
Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.9	26.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

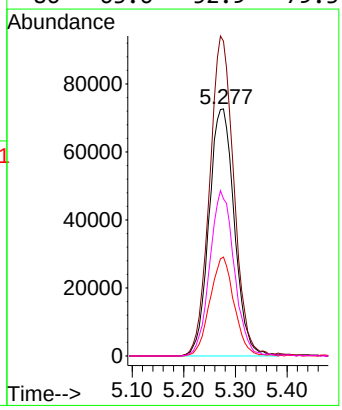
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

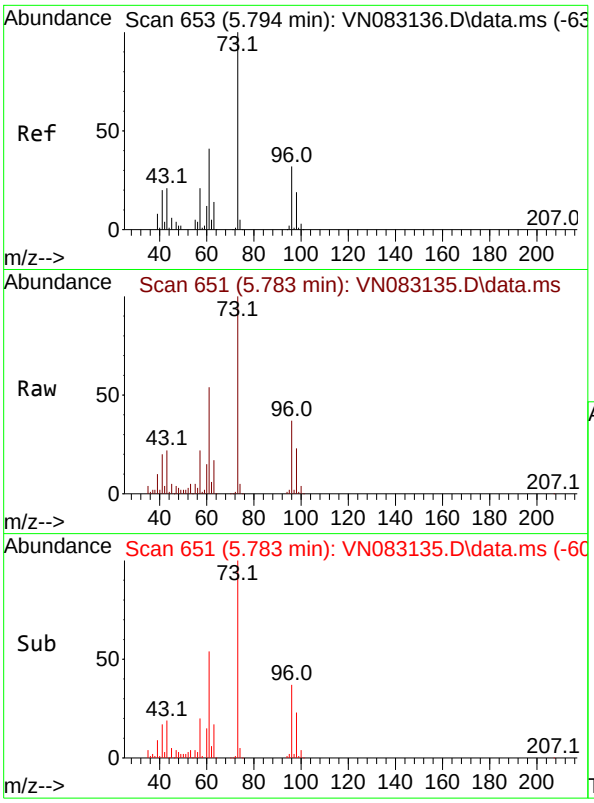


#20
Methylene Chloride
Concen: 88.771 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

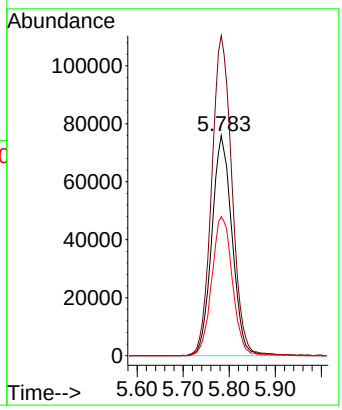




#21
trans-1,2-Dichloroethene
Concen: 92.991 ug/l
RT: 5.783 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 96 Resp: 23153

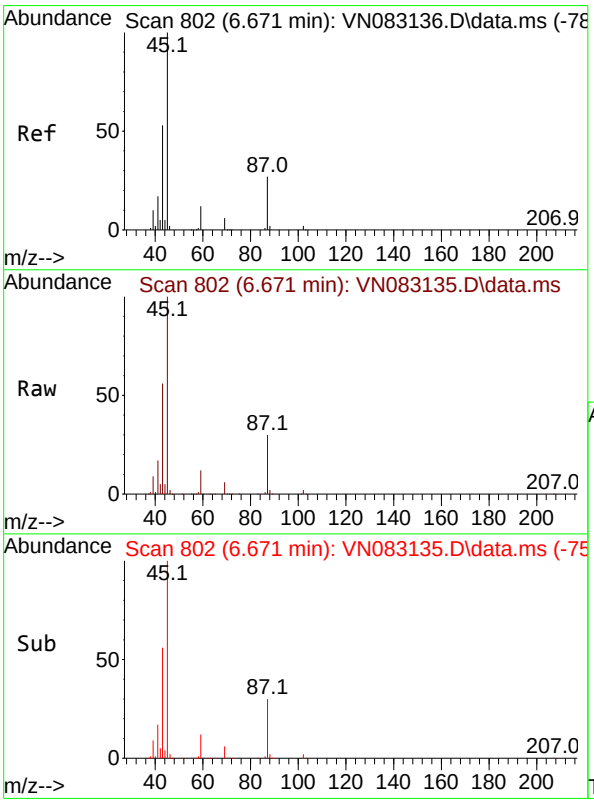
Ion	Ratio	Lower	Upper
96	100		
61	145.4	123.4	185.2
98	63.2	49.3	73.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

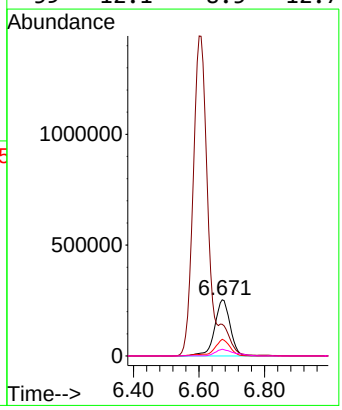
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

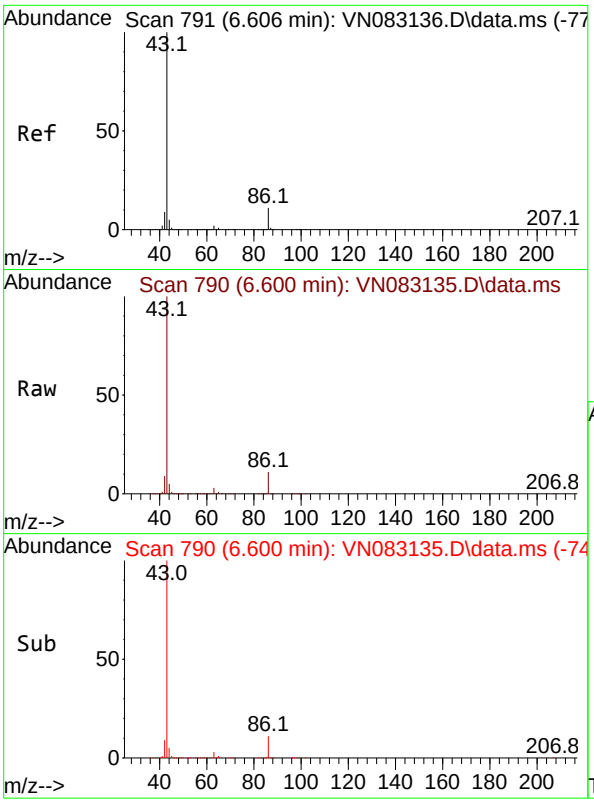


#22
Diisopropyl ether
Concen: 96.959 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

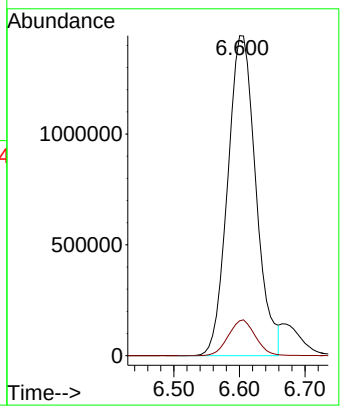




#23
Vinyl Acetate
Concen: 493.177 ug/l
RT: 6.600 min Scan# 7
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 43 Resp: 432491

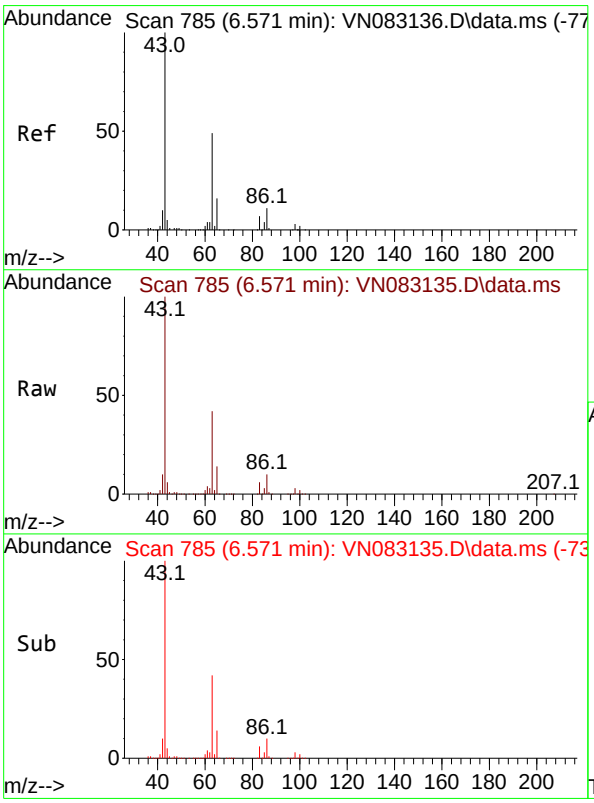
Ion	Ratio	Lower	Upper
43	100		
86	10.9	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

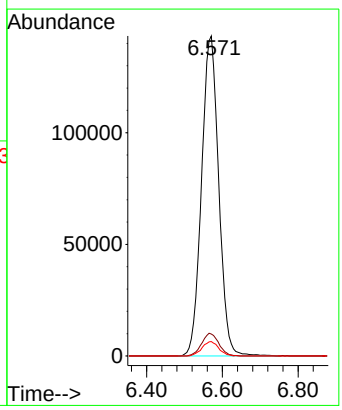
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

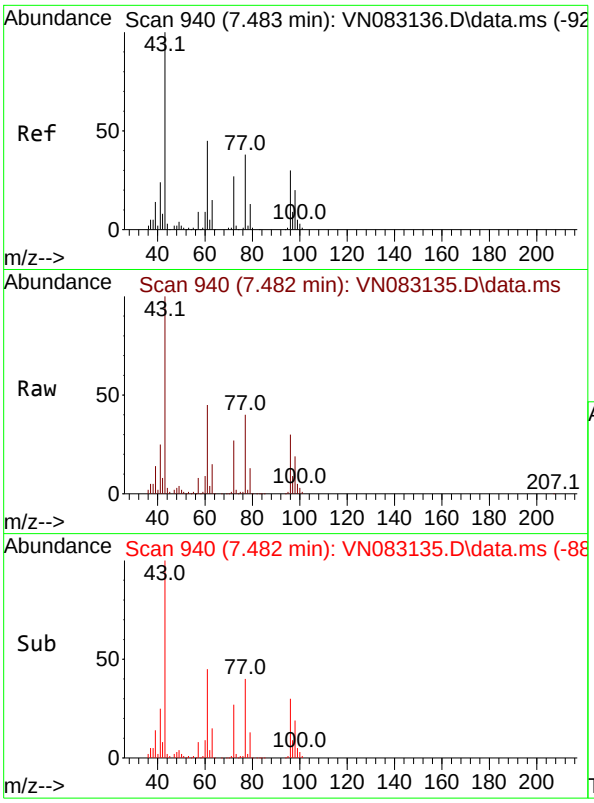


#24
1,1-Dichloroethane
Concen: 96.746 ug/l
RT: 6.571 min Scan# 785
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

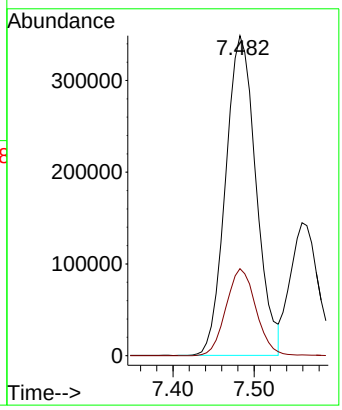
Tgt Ion: 43 Resp: 90899

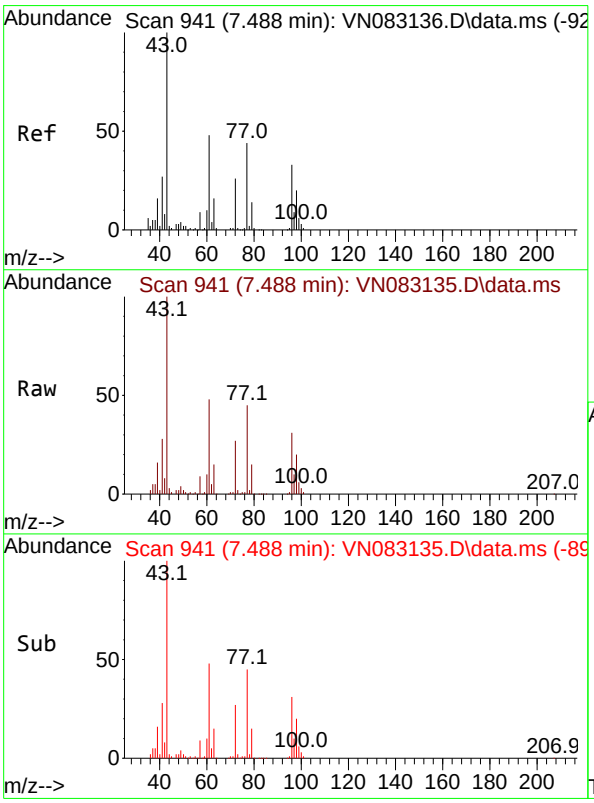
Ion	Ratio	Lower	Upper
43	100		
72	27.2	18.2	27.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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

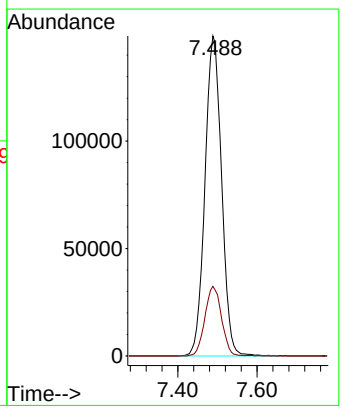


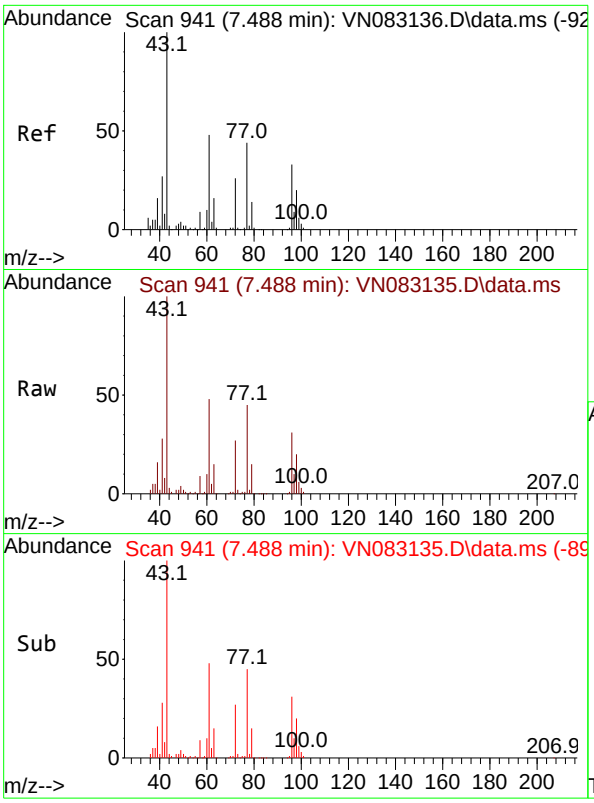


#26
2,2-Dichloropropane
Concen: 100.075 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 77 Resp: 433489

Ion	Ratio	Lower	Upper
77	100		
97	21.7	10.3	30.9

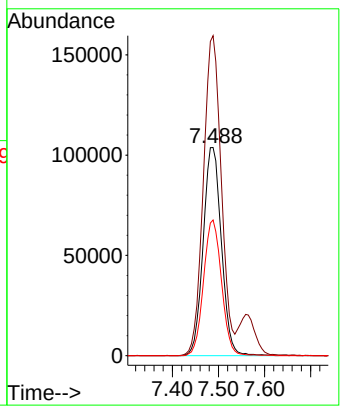




#27
cis-1,2-Dichloroethene
Concen: 95.225 ug/l
RT: 7.488 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 96 Resp: 28610

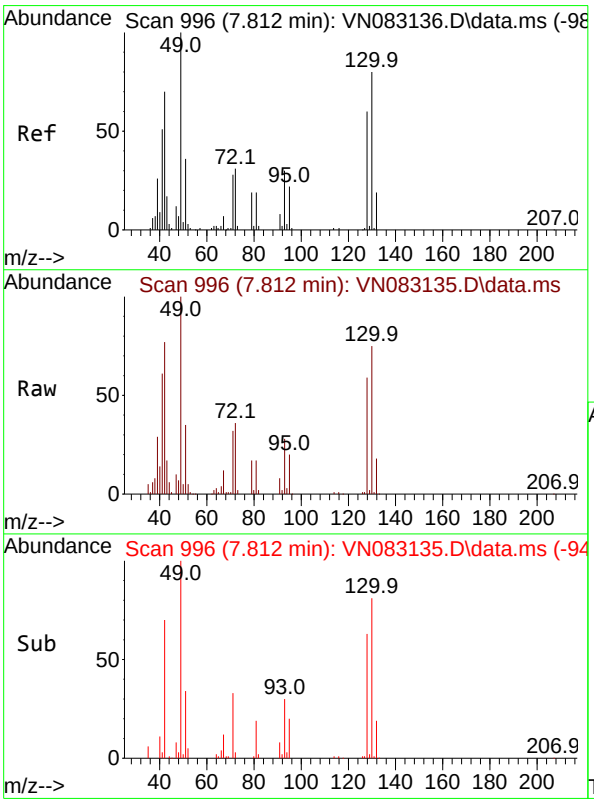
Ion	Ratio	Lower	Upper
96	100		
61	151.6	0.0	329.6
98	64.3	0.0	128.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

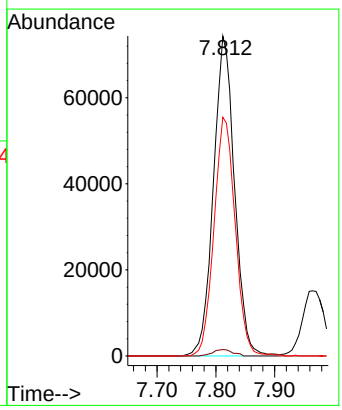
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

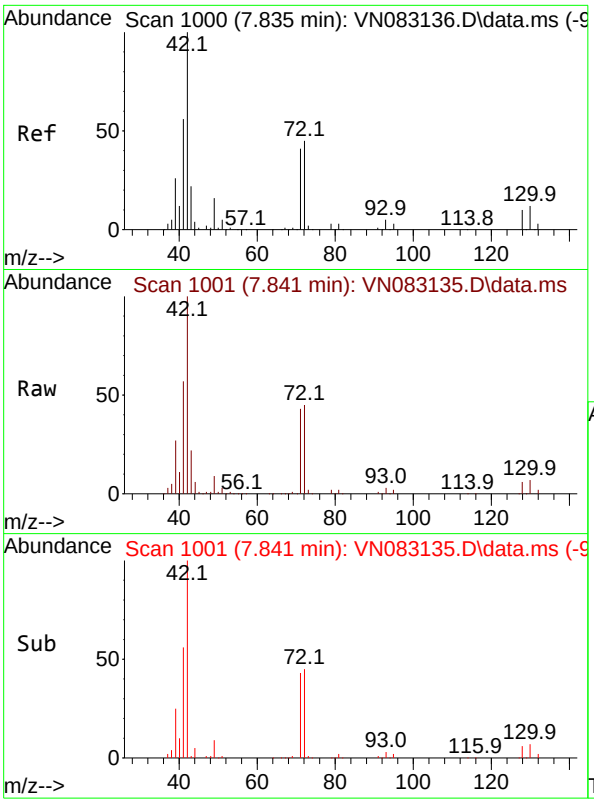


#28
Bromochloromethane
Concen: 97.333 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

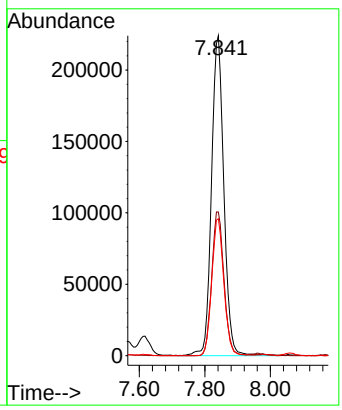
Tgt Ion: 42 Resp: 58732

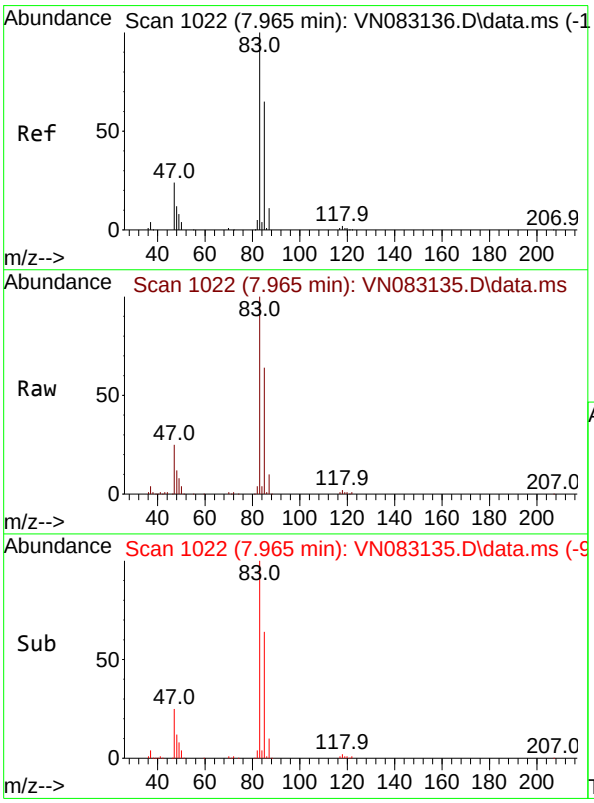
Ion	Ratio	Lower	Upper
42	100		
72	44.6	30.0	45.0
71	41.9	28.3	42.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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

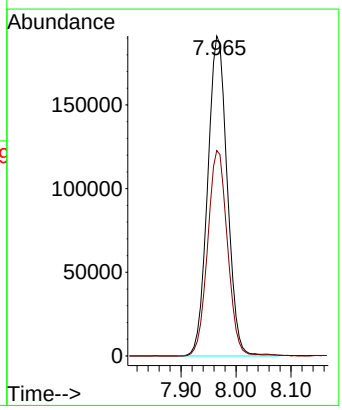


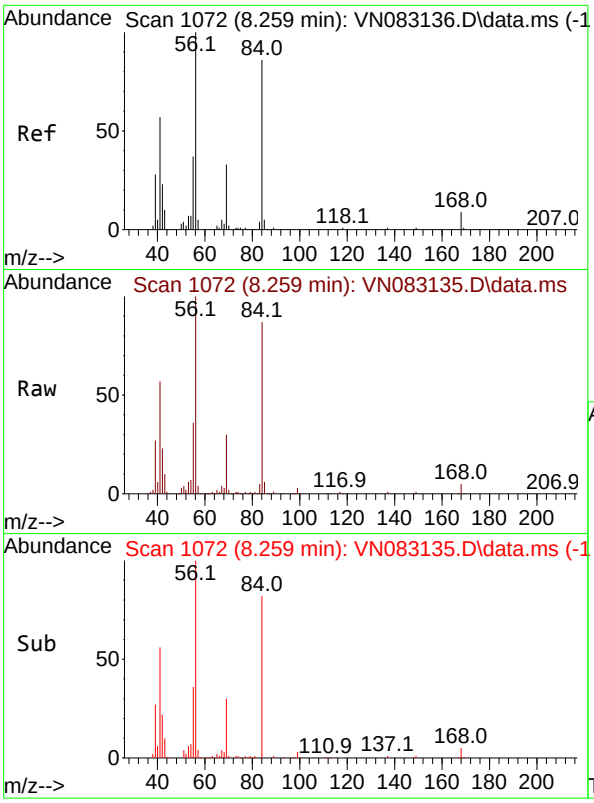


#30
Chloroform
Concen: 97.456 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 83 Resp: 472257

Ion	Ratio	Lower	Upper
83	100		
85	64.2	50.9	76.3

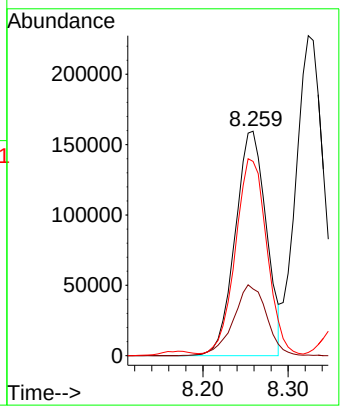




#31
Cyclohexane
Concen: 88.496 ug/l
RT: 8.259 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 56 Resp: 40566

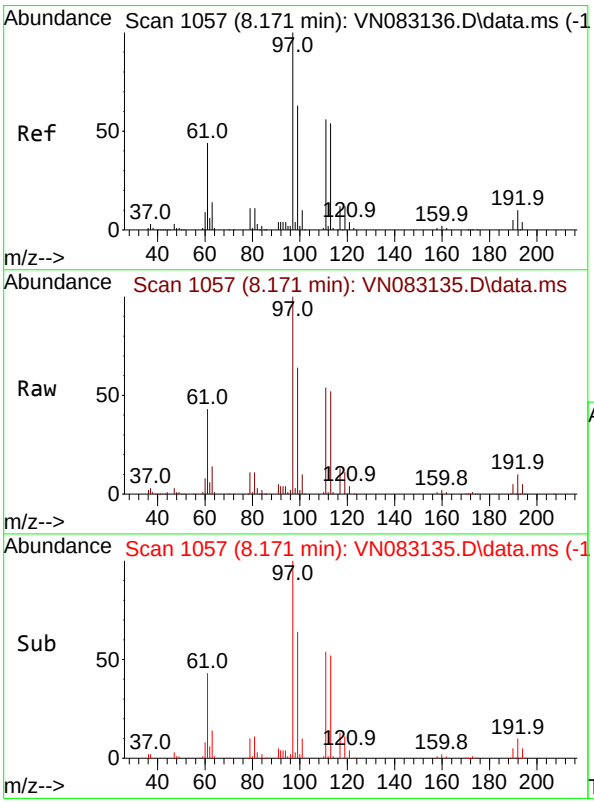
Ion	Ratio	Lower	Upper
56	100		
69	29.7	24.5	36.7
84	84.5	66.0	99.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

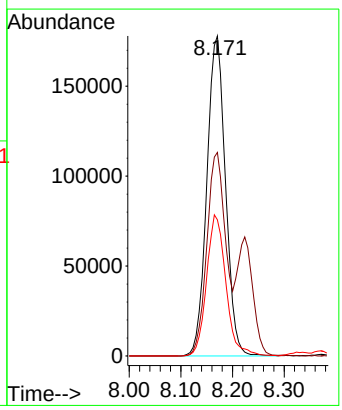
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

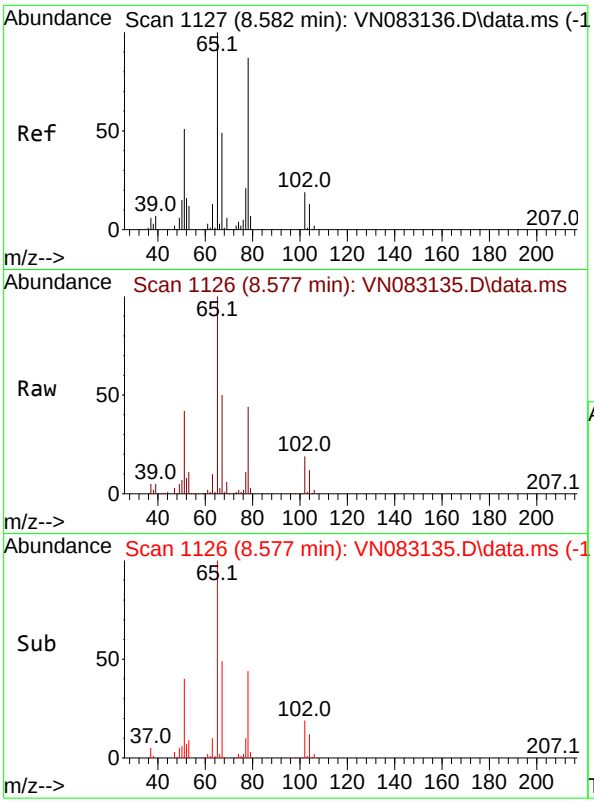


#32
1,1,1-Trichloroethane
Concen: 97.332 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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# 11
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

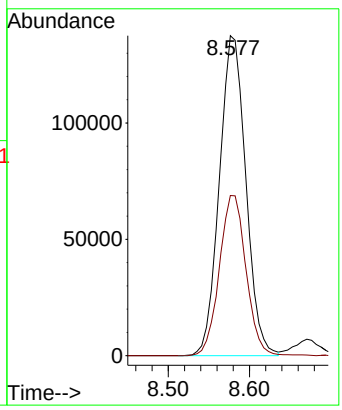
Tgt Ion: 65 Resp: 31153

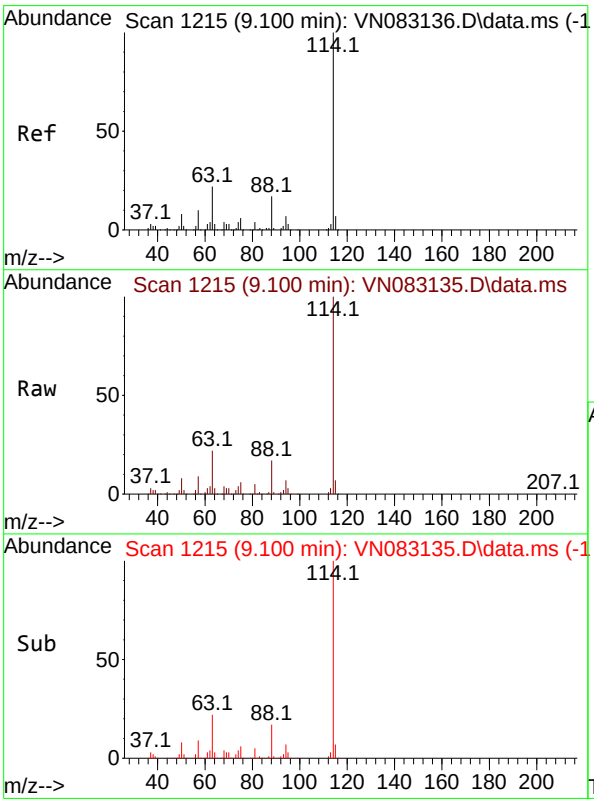
Ion	Ratio	Lower	Upper
65	100		
67	50.6	0.0	104.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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

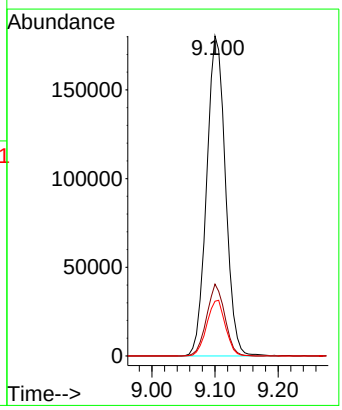


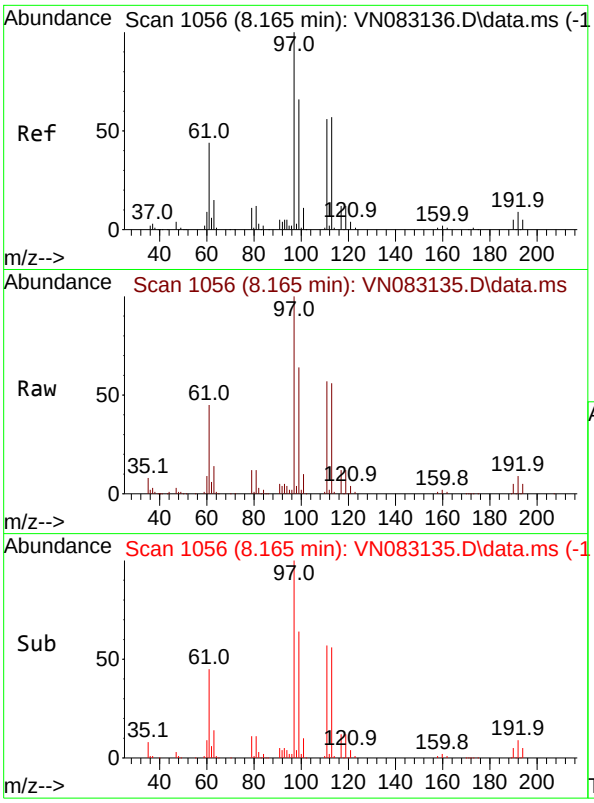


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

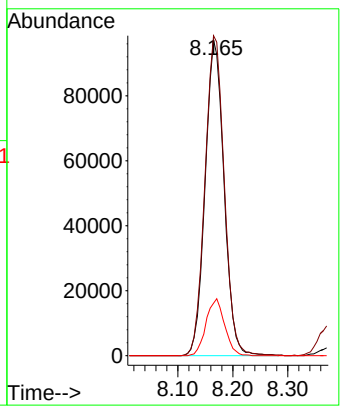




#35
Dibromofluoromethane
Concen: 99.556 ug/l
RT: 8.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:113 Resp: 23180

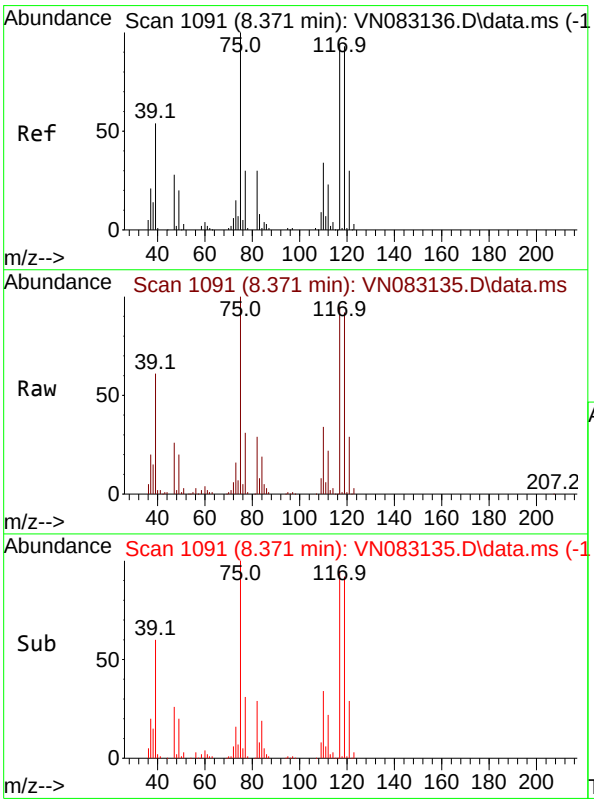
Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.4	123.6
192	17.7	14.9	22.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

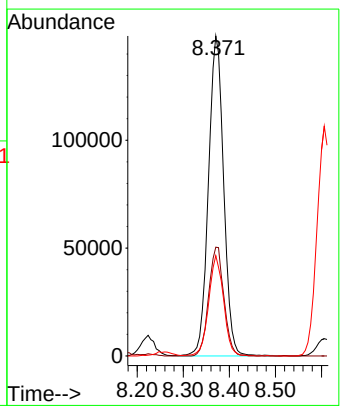
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

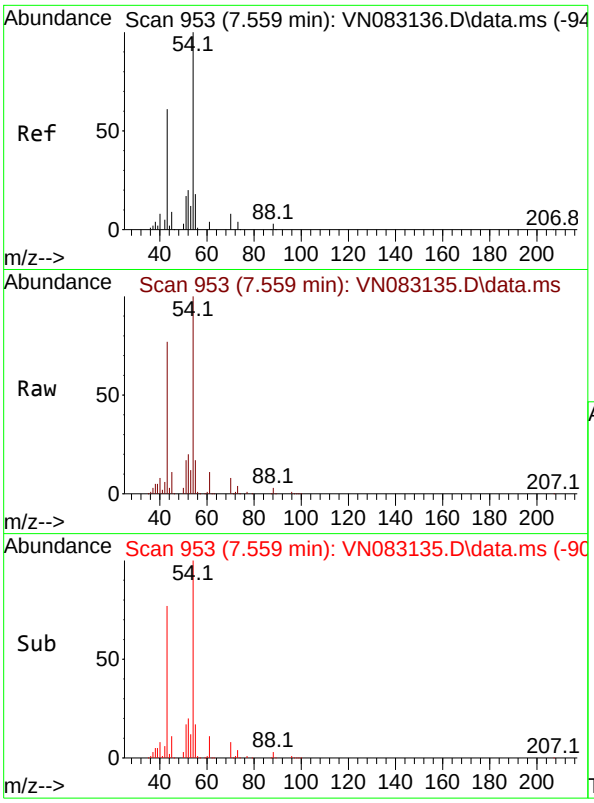


#36
1,1-Dichloropropene
Concen: 96.808 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

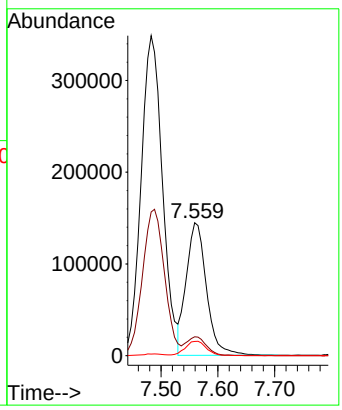




#37
Ethyl Acetate
Concen: 90.602 ug/l
RT: 7.559 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 43 Resp: 35730

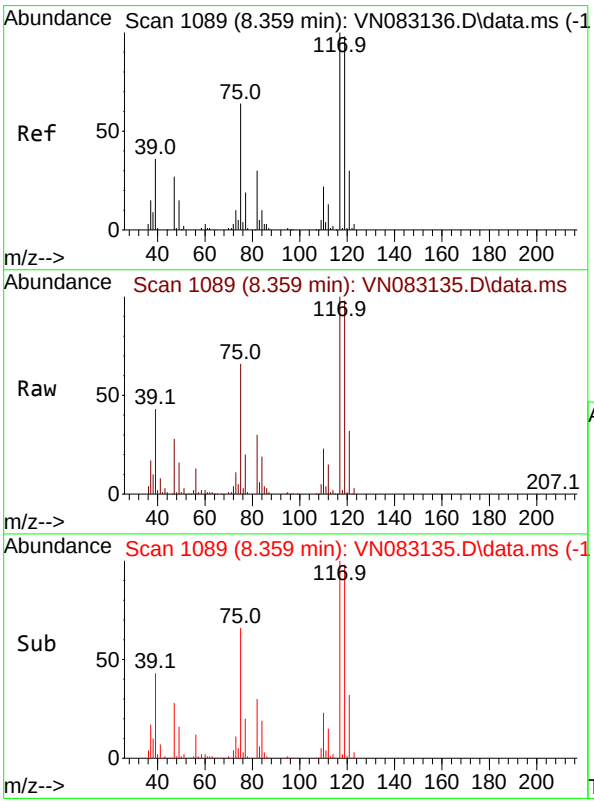
Ion	Ratio	Lower	Upper
43	100		
61	14.4	9.3	13.9
70	11.4	7.0	10.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

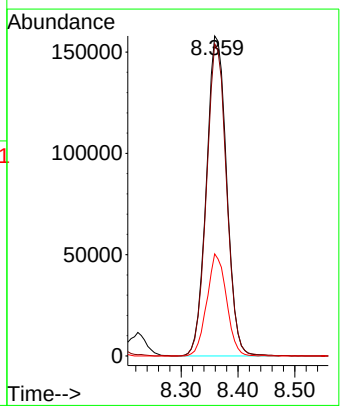
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

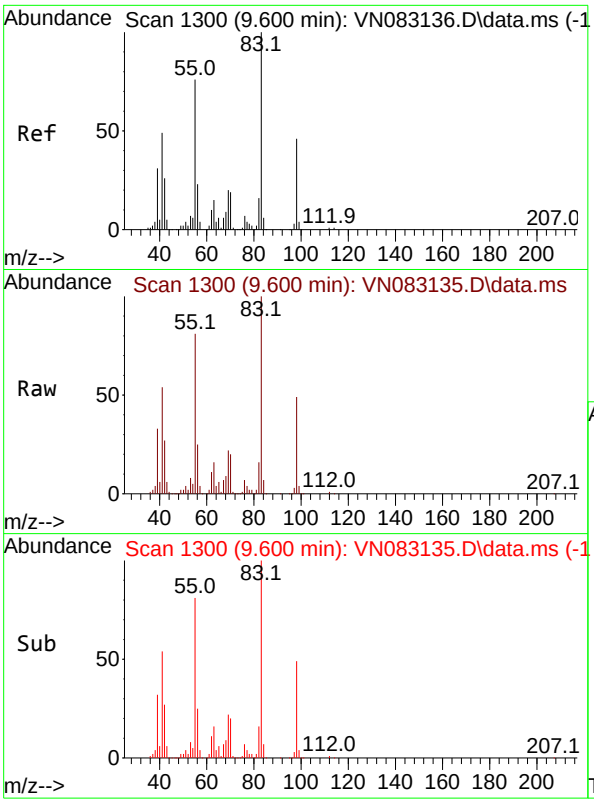


#38
Carbon Tetrachloride
Concen: 98.597 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

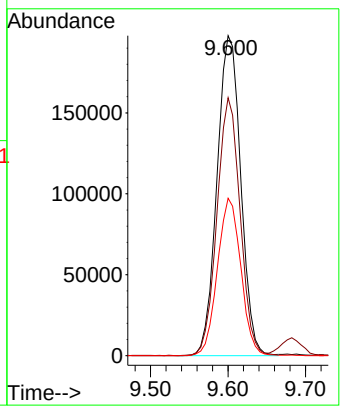
Tgt Ion: 83 Resp: 42174

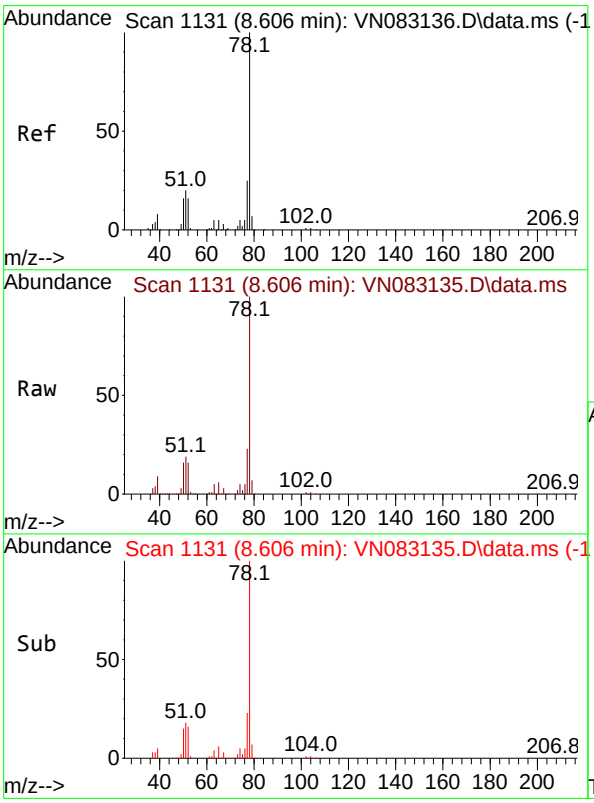
Ion	Ratio	Lower	Upper
83	100		
55	80.6	66.4	99.6
98	49.2	40.7	61.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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

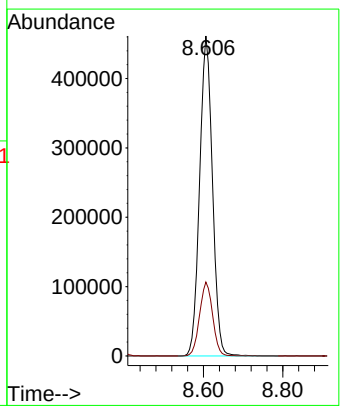


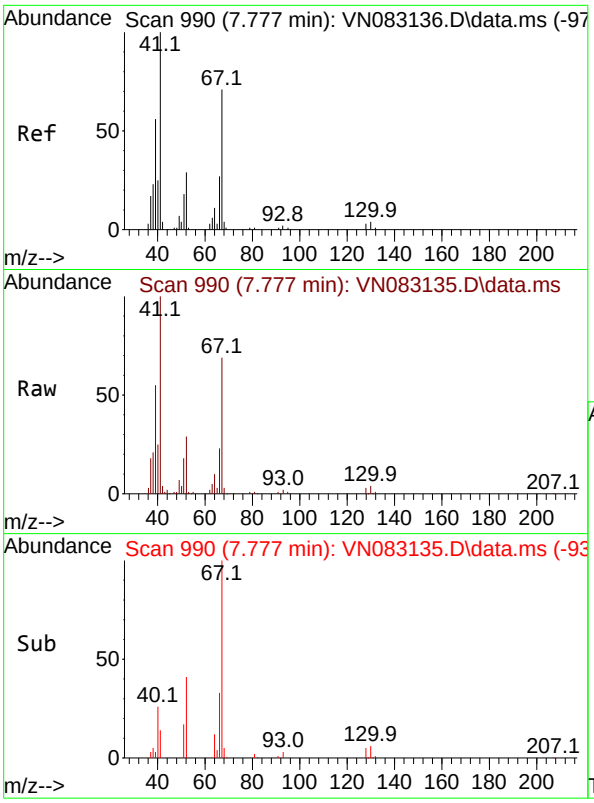


#40
Benzene
Concen: 98.550 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 78 Resp: 1034059

Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.0	28.4

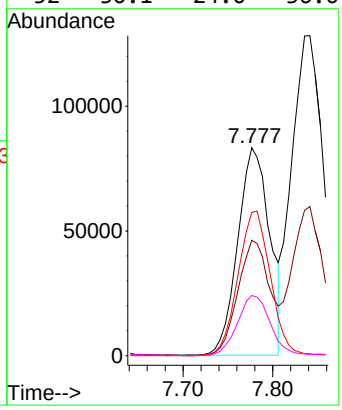




#41
Methacrylonitrile
Concen: 91.799 ug/l
RT: 7.777 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 41 Resp: 20584

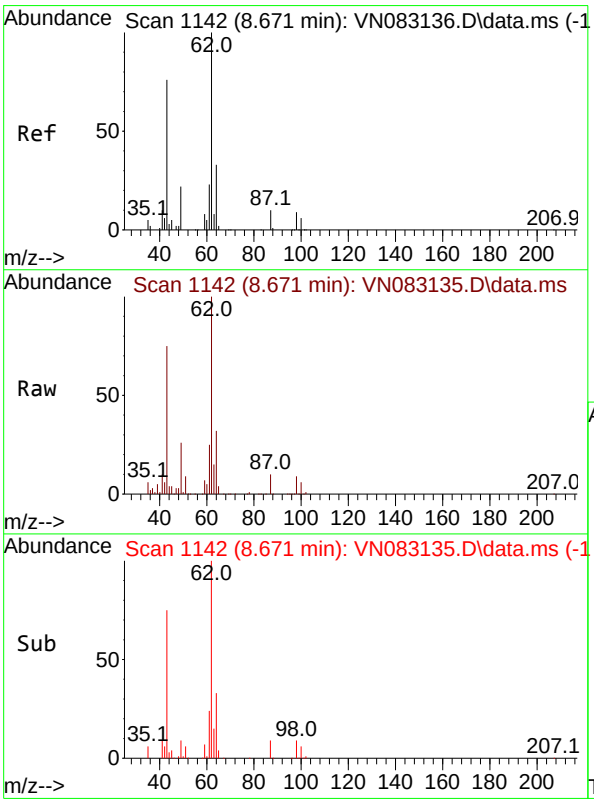
Ion	Ratio	Lower	Upper
41	100		
39	55.7	45.5	68.3
67	70.9	50.5	75.7
52	30.1	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

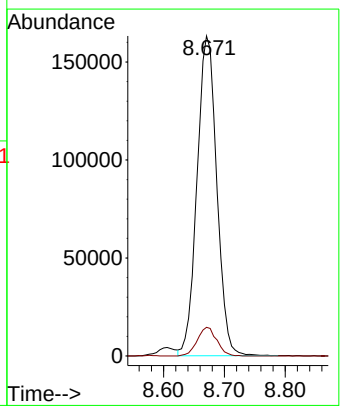
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

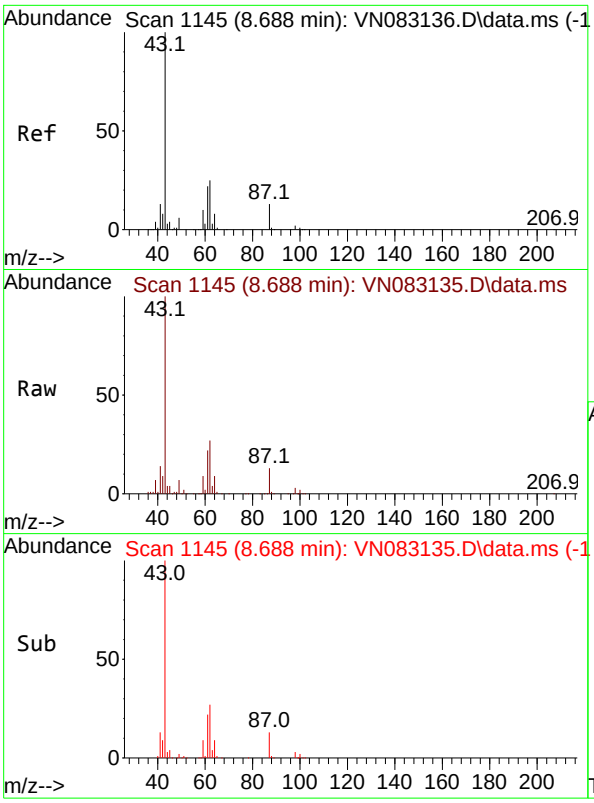


#42
1,2-Dichloroethane
Concen: 96.385 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

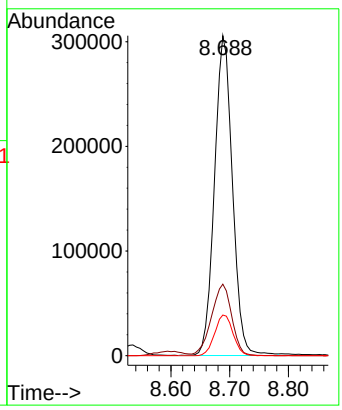
Tgt Ion: 43 Resp: 64858

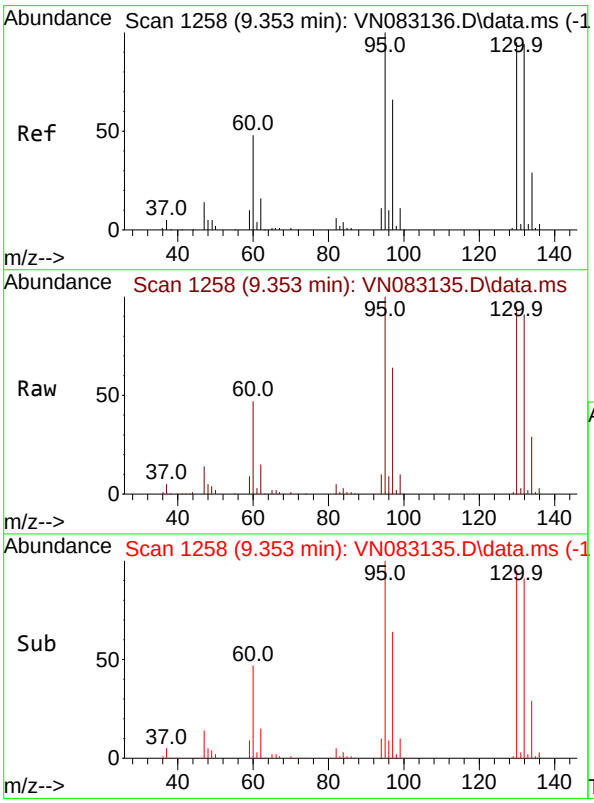
Ion	Ratio	Lower	Upper
43	100		
61	25.2	17.8	26.6
87	13.0	8.2	12.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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

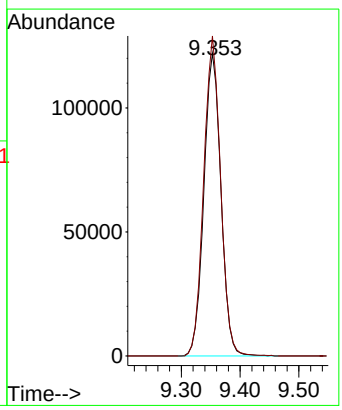


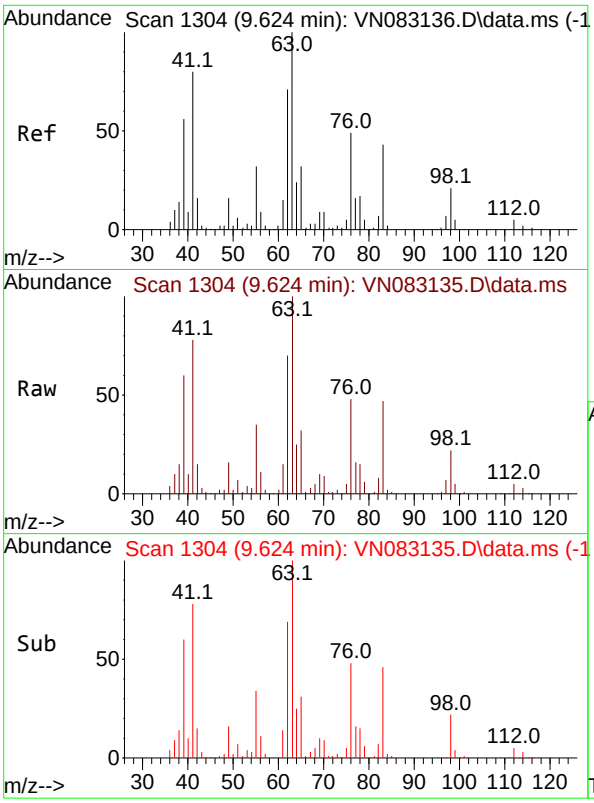


#44
Trichloroethene
Concen: 98.774 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:130 Resp: 246689

Ion	Ratio	Lower	Upper
130	100		
95	105.7	0.0	197.8

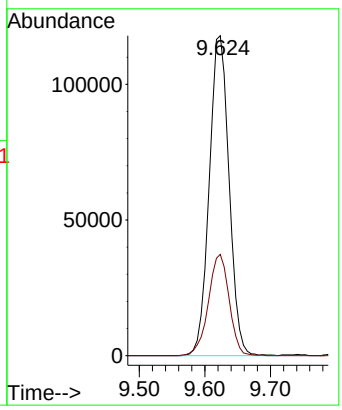




#45
1,2-Dichloropropane
Concen: 99.275 ug/l
RT: 9.624 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 63 Resp: 24726

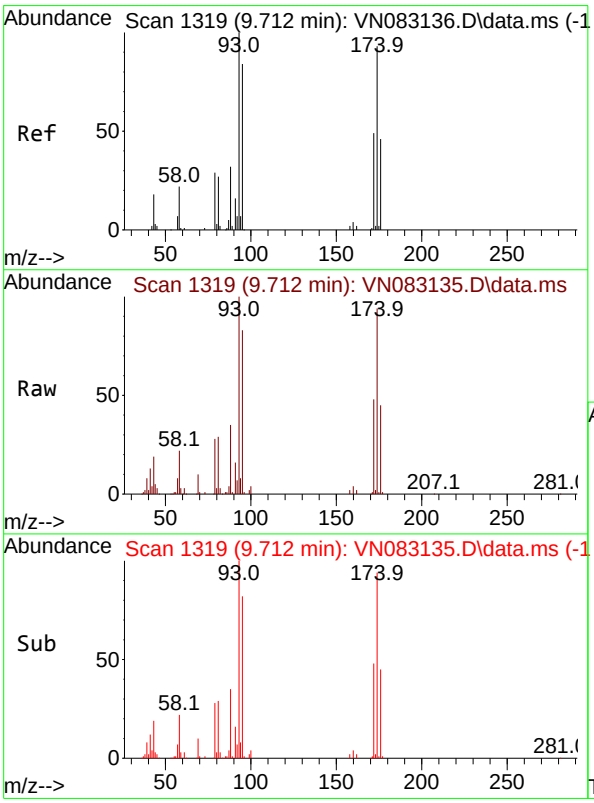
Ion	Ratio	Lower	Upper
63	100		
65	31.6	24.4	36.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

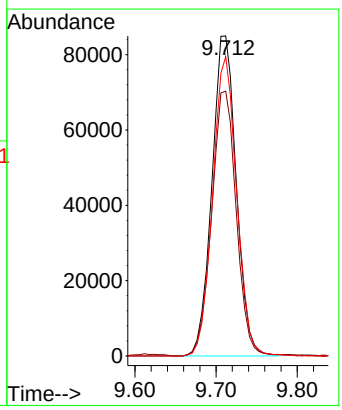
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

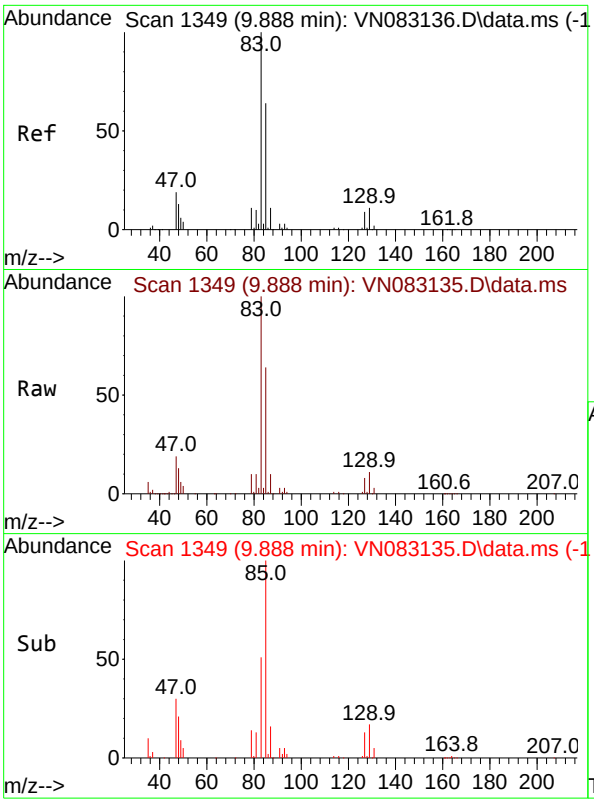


#46
Dibromomethane
Concen: 99.449 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

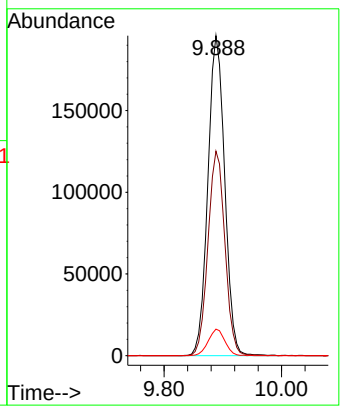




#47
Bromodichloromethane
Concen: 97.184 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 83 Resp: 38902

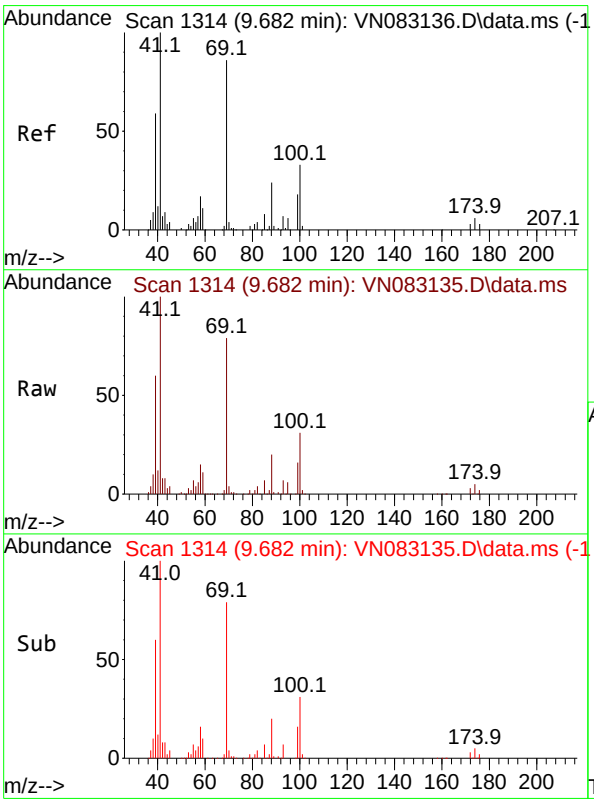
Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.1	76.7
127	8.3	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

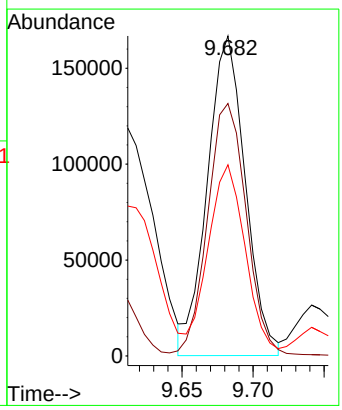
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

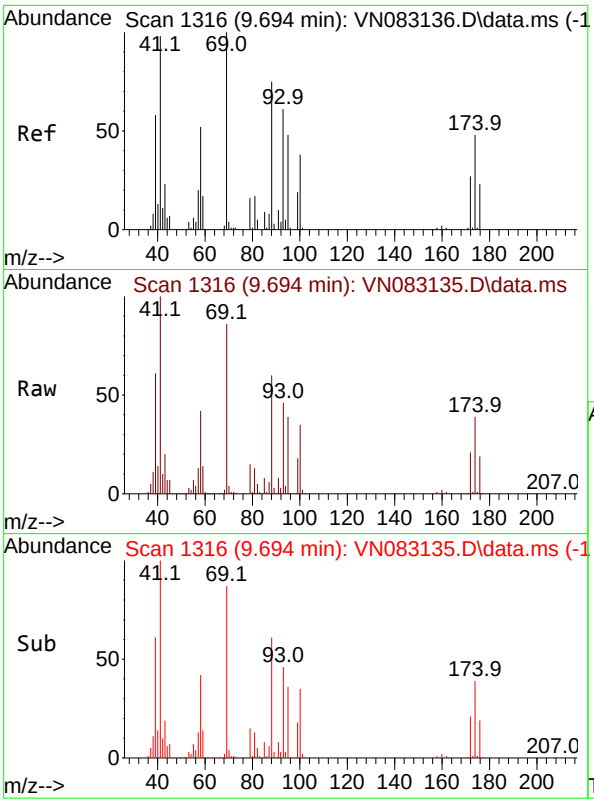


#48
Methyl methacrylate
Concen: 94.886 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

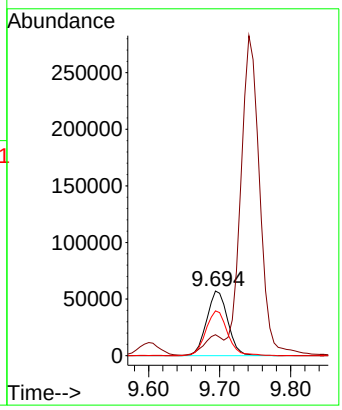




#49
1,4-Dioxane
Concen: 1994.879 ug/l
RT: 9.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 88 Resp: 11734

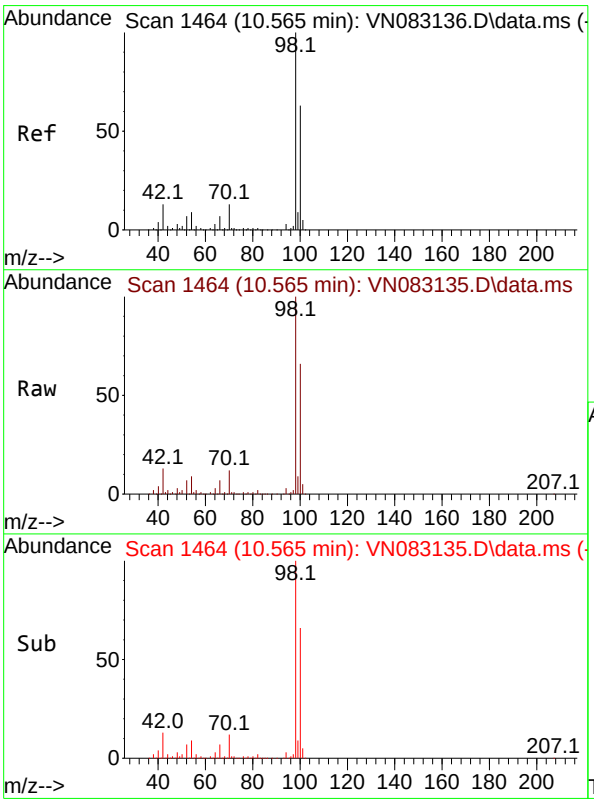
Ion	Ratio	Lower	Upper
88	100		
43	28.2	27.8	41.8
58	71.8	59.4	89.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

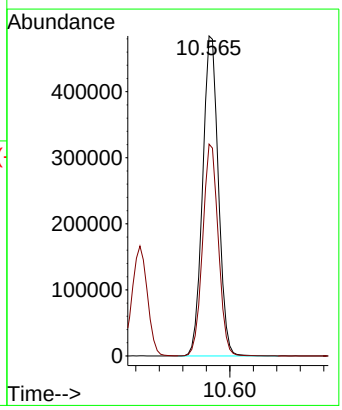
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

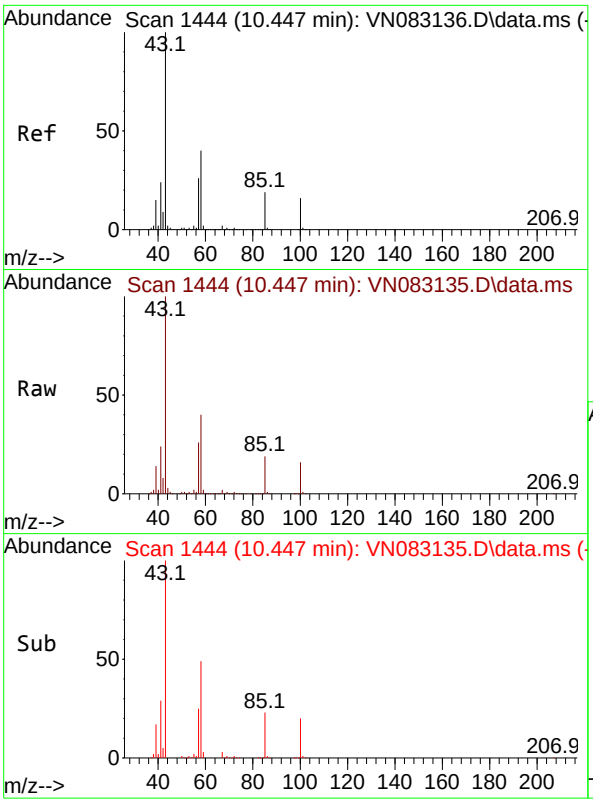


#50
Toluene-d8
Concen: 103.163 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 98 Resp: 896022

Ion	Ratio	Lower	Upper
98	100		
100	65.8	51.5	77.3

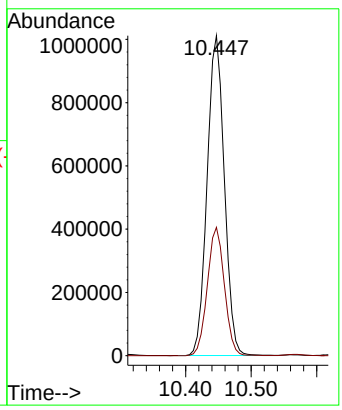




#51
4-Methyl-2-Pentanone
Concen: 495.091 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 43 Resp: 184634

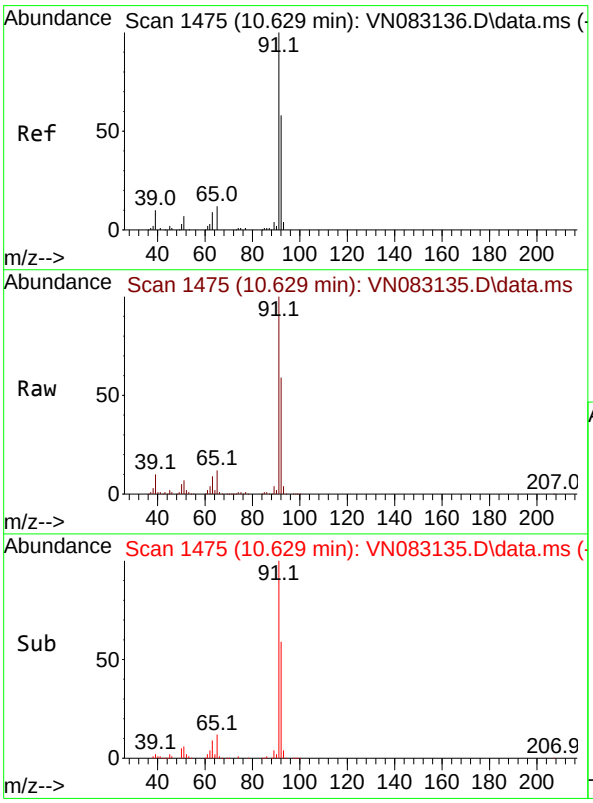
Ion	Ratio	Lower	Upper
43	100		
58	39.7	28.2	42.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

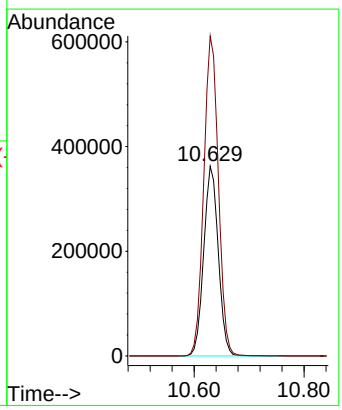
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

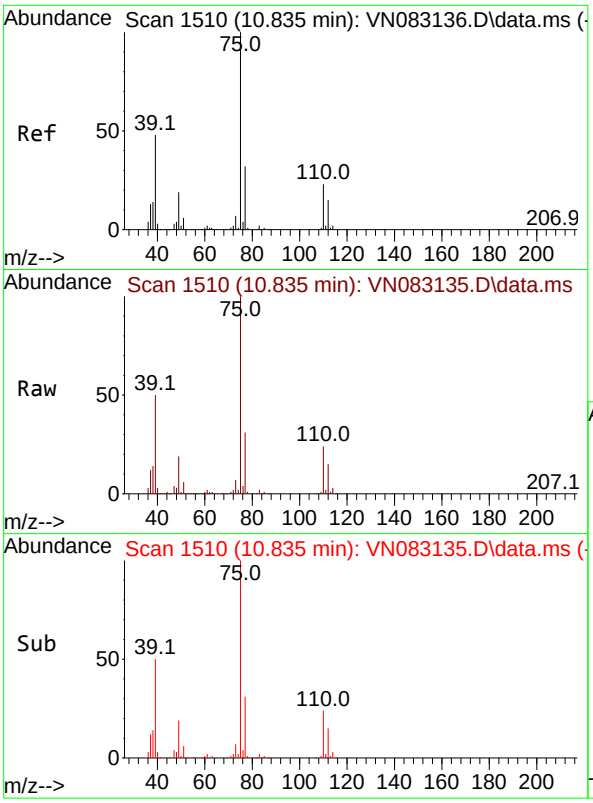


#52
Toluene
Concen: 100.347 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 92 Resp: 665274

Ion	Ratio	Lower	Upper
92	100		
91	169.4	139.4	209.0

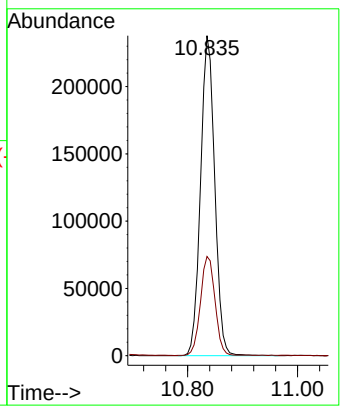




#53
t-1,3-Dichloropropene
Concen: 103.317 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 75 Resp: 42482

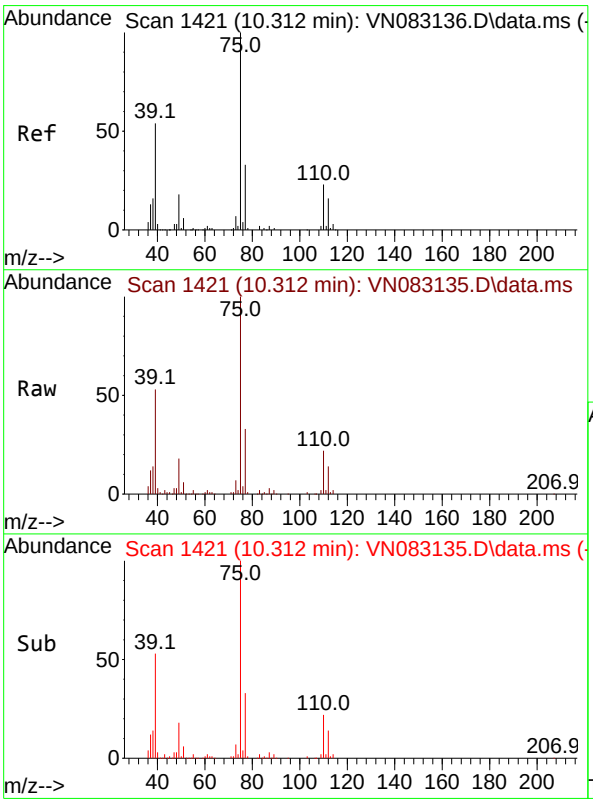
Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

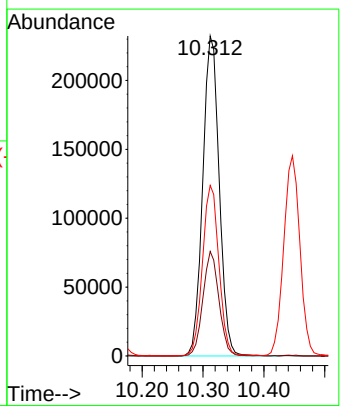
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

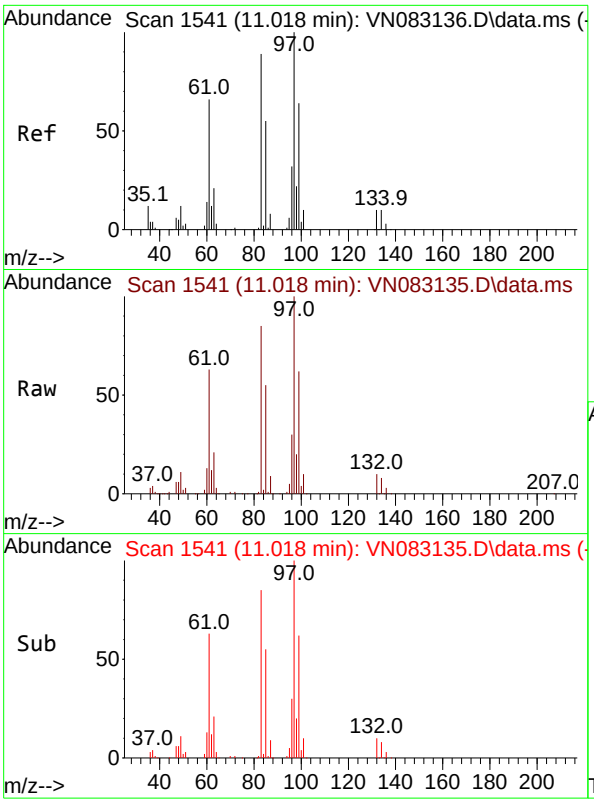


#54
cis-1,3-Dichloropropene
Concen: 99.903 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

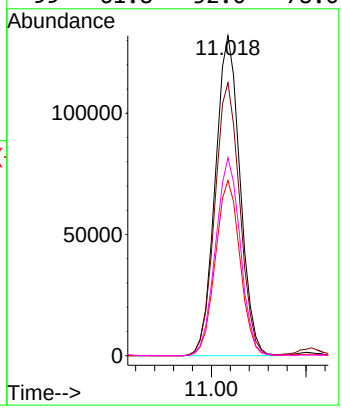




#55
1,1,2-Trichloroethane
Concen: 101.114 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 97 Resp: 24023

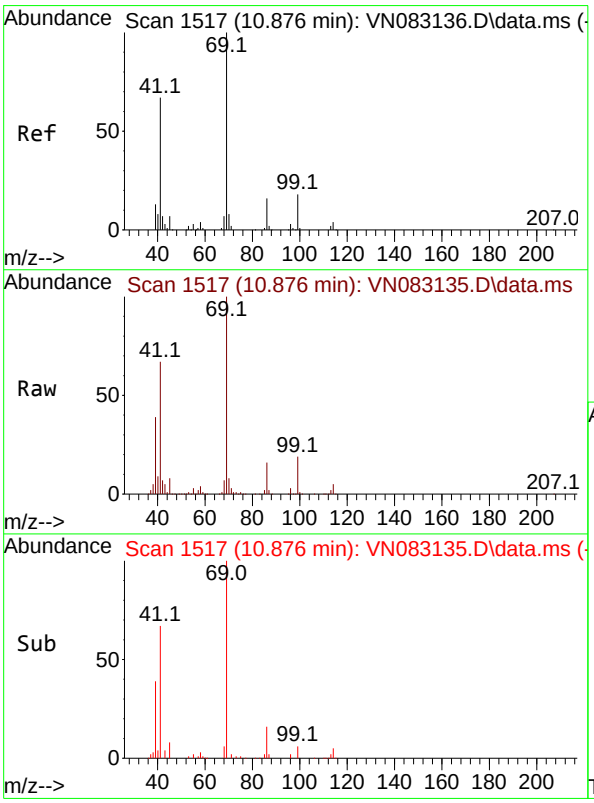
Ion	Ratio	Lower	Upper
97	100		
83	85.3	71.4	107.0
85	54.8	45.8	68.6
99	61.8	52.0	78.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

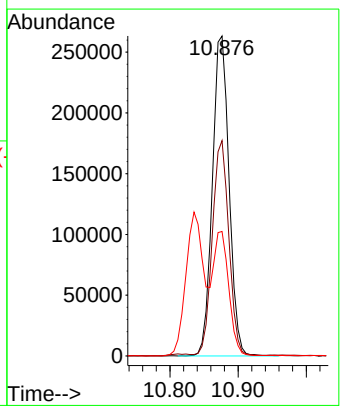
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

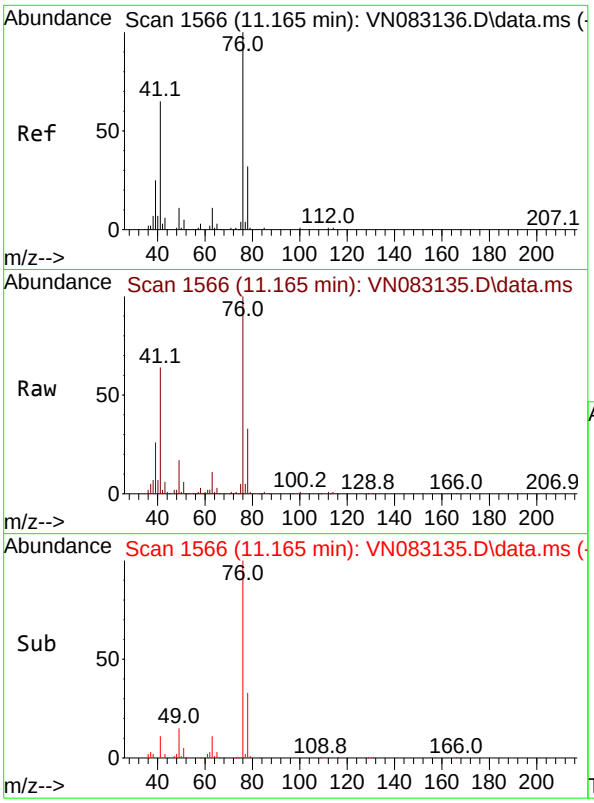


#56
Ethyl methacrylate
Concen: 100.164 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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#

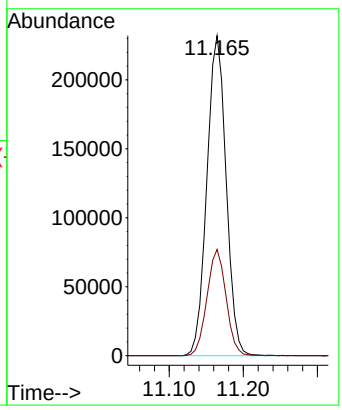




#57
1,3-Dichloropropane
Concen: 98.824 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 76 Resp: 41850

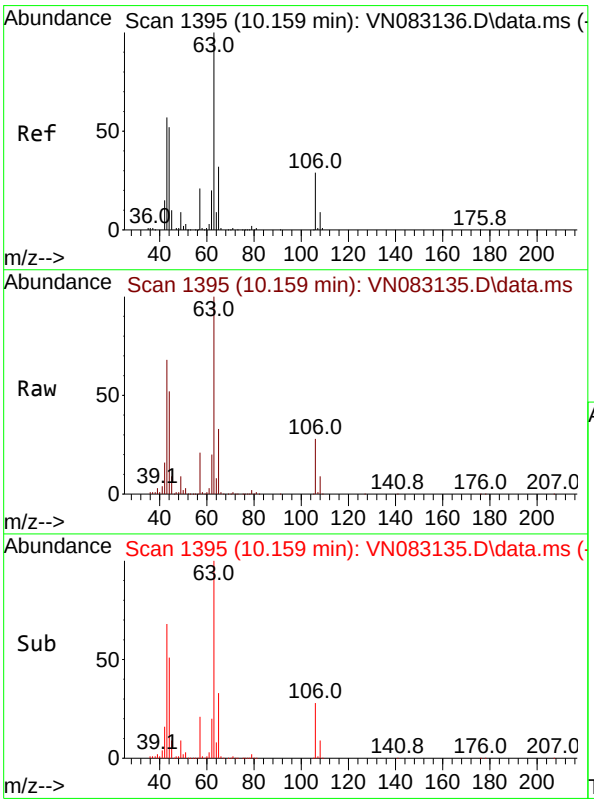
Ion	Ratio	Lower	Upper
76	100		
78	32.9	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

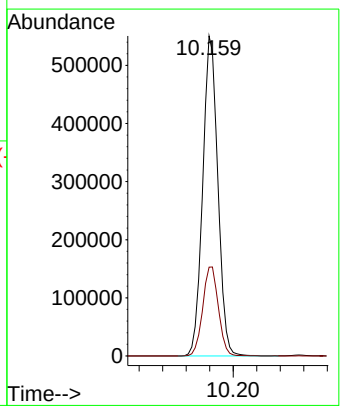
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

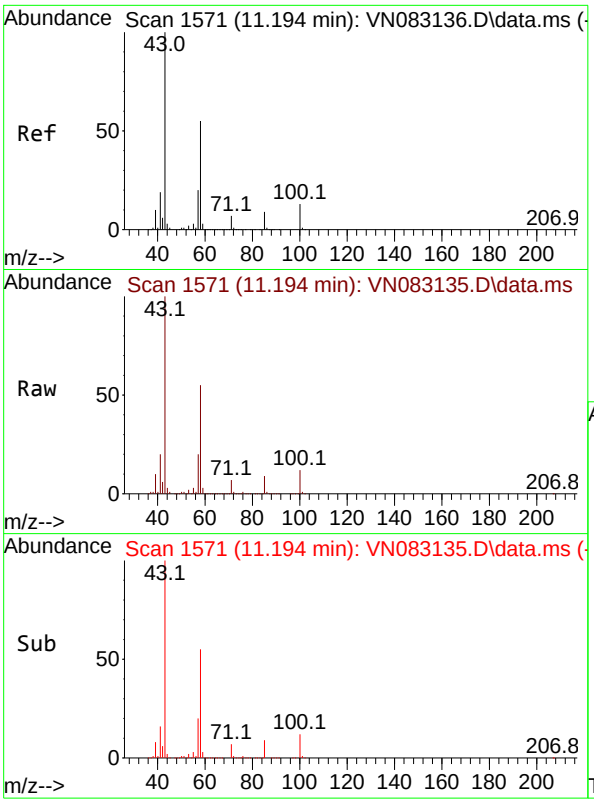


#58
2-Chloroethyl Vinyl ether
Concen: 519.987 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 63 Resp: 984478

Ion	Ratio	Lower	Upper
63	100		
106	28.8	21.4	32.0

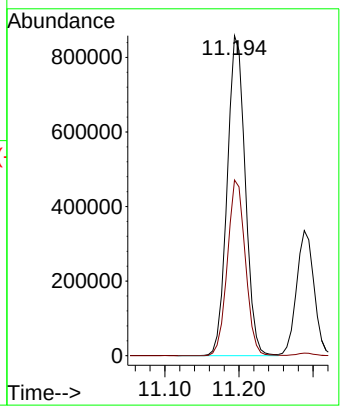




#59
2-Hexanone
Concen: 501.642 ug/l
RT: 11.194 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 43 Resp: 144730

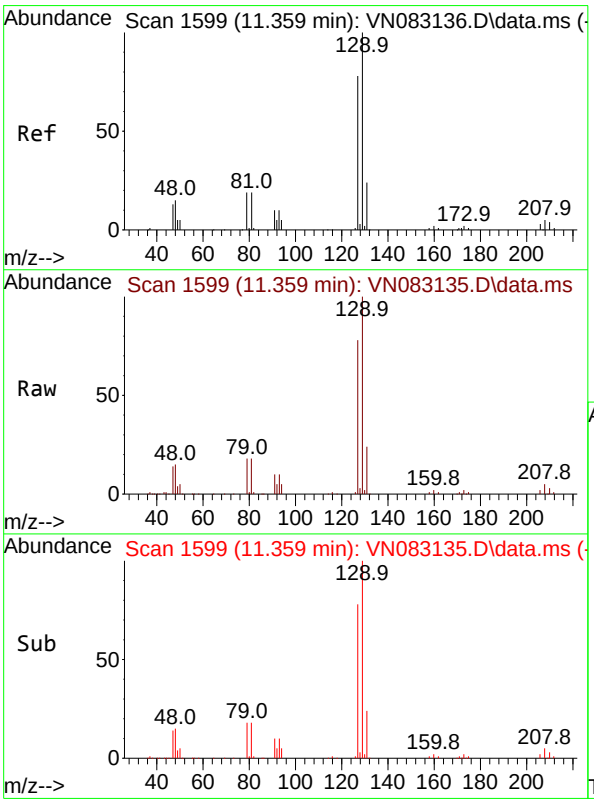
Ion	Ratio	Lower	Upper
43	100		
58	54.7	24.6	73.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

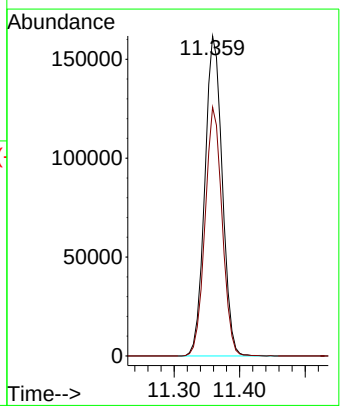
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

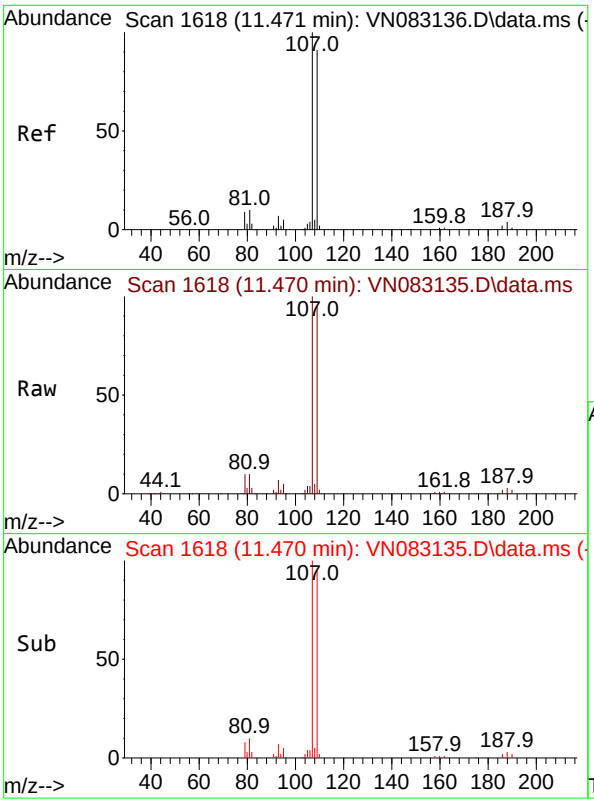


#60
Dibromochloromethane
Concen: 103.914 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:129 Resp: 298498

Ion	Ratio	Lower	Upper
129	100		
127	76.3	39.2	117.6

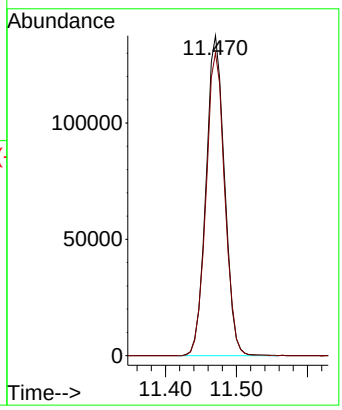




#61
1,2-Dibromoethane
Concen: 99.794 ug/l
RT: 11.470 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:107 Resp: 24907

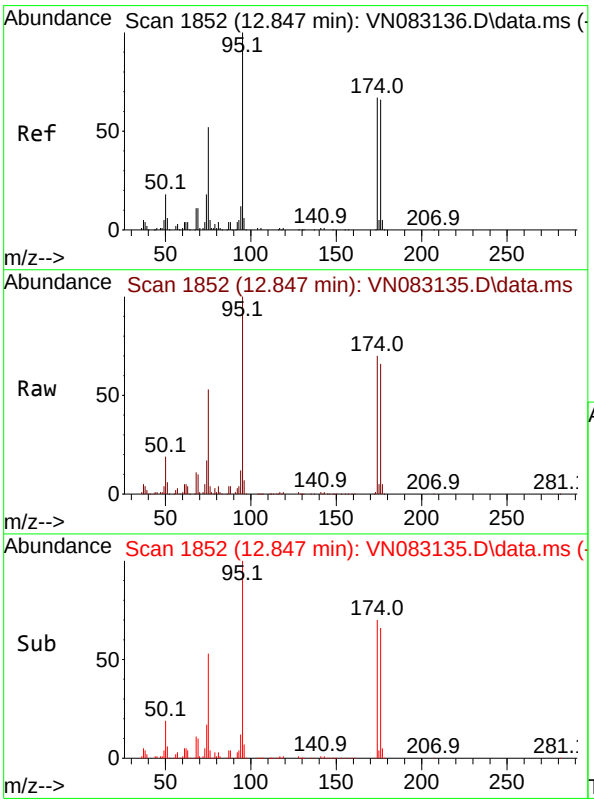
Ion	Ratio	Lower	Upper
107	100		
109	95.5	73.7	110.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

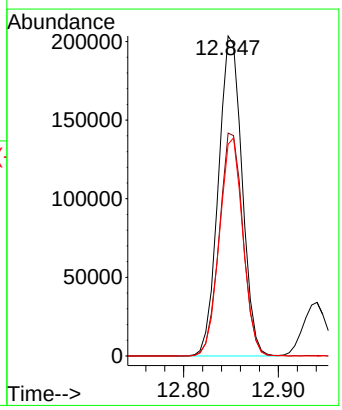
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

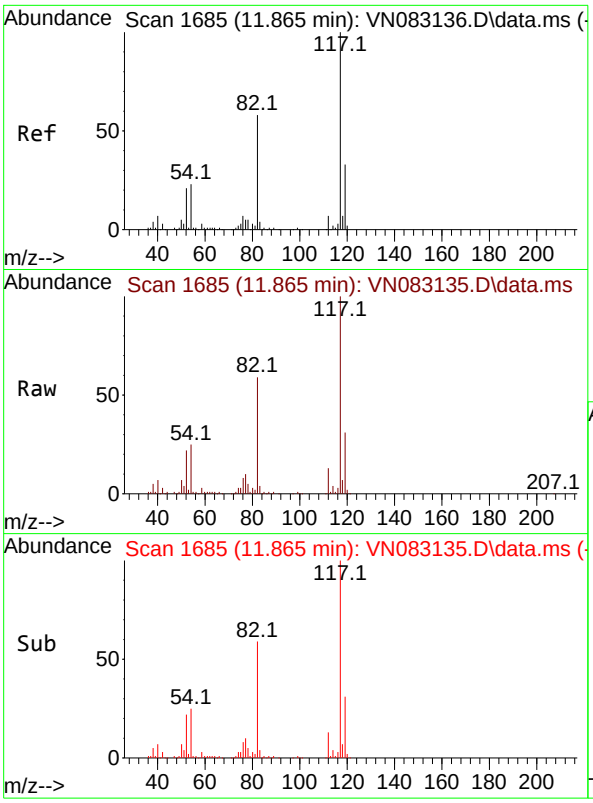


#62
4-Bromofluorobenzene
Concen: 104.234 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

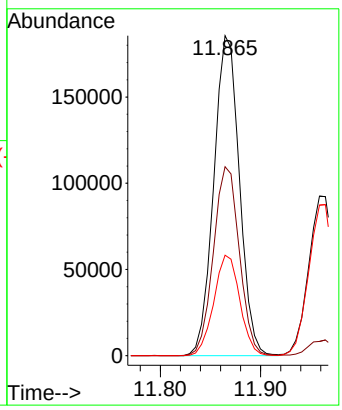




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:117 Resp: 32985

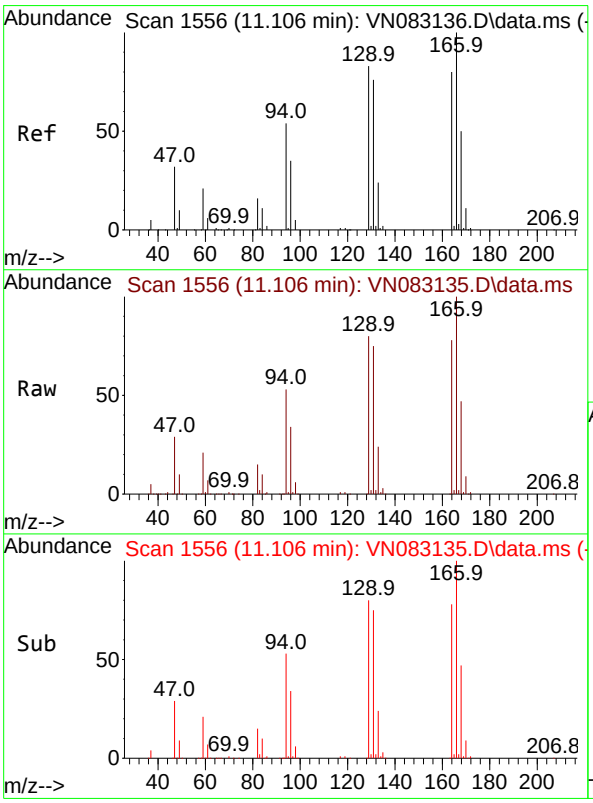
Ion	Ratio	Lower	Upper
117	100		
82	59.0	47.5	71.3
119	31.4	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

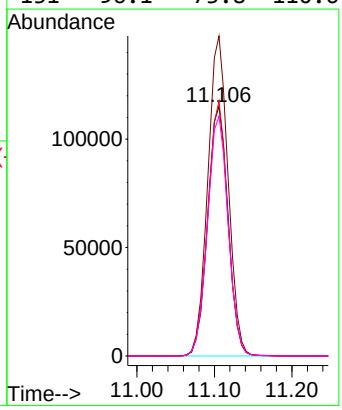
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

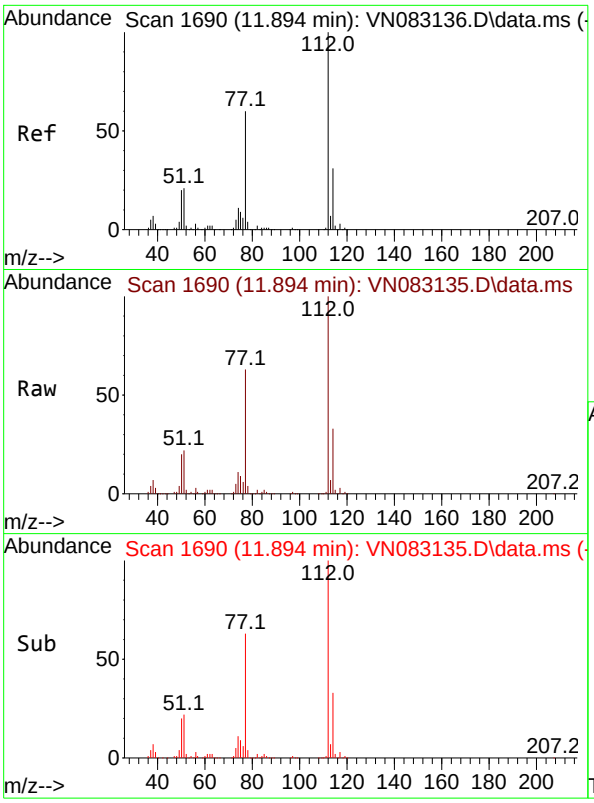


#64
Tetrachloroethene
Concen: 96.284 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

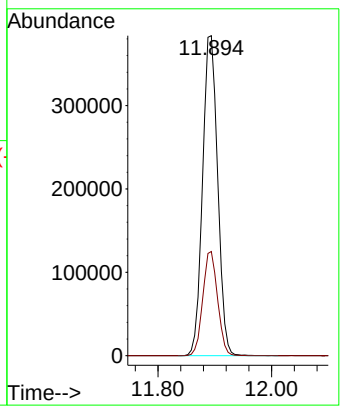
Tgt Ion:112 Resp: 70563

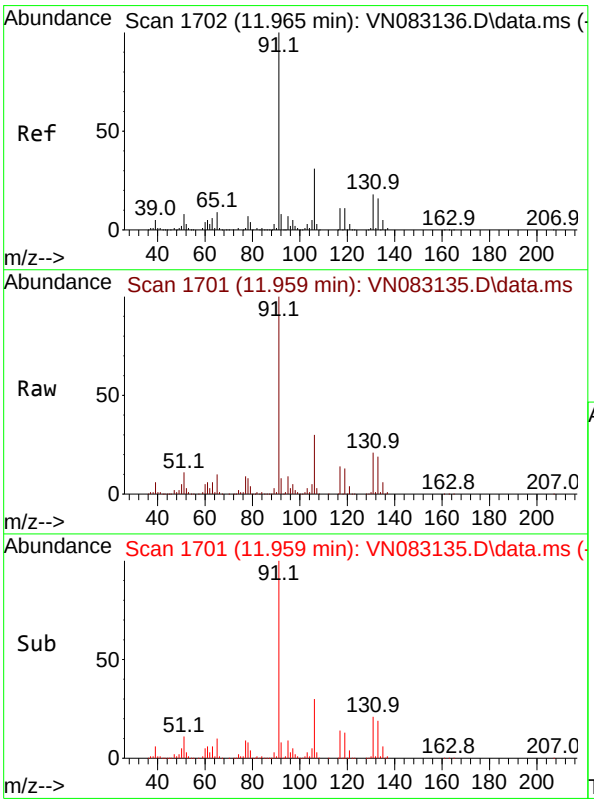
Ion	Ratio	Lower	Upper
112	100		
114	32.5	26.2	39.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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

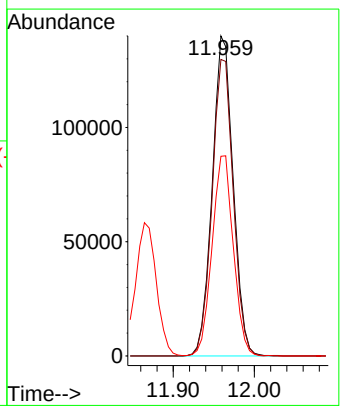


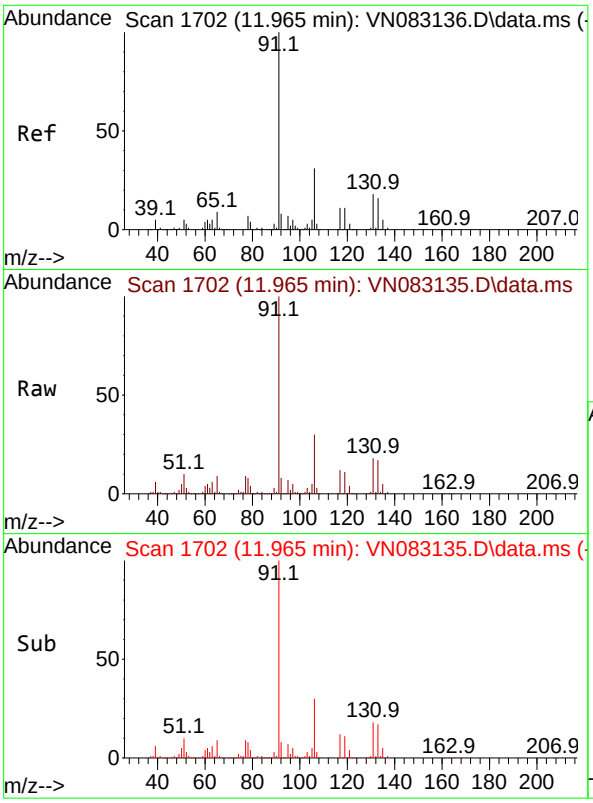


#66
1,1,1,2-Tetrachloroethane
Concen: 97.546 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

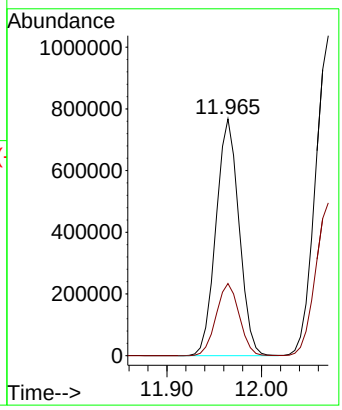
Tgt Ion: 91 Resp: 129763

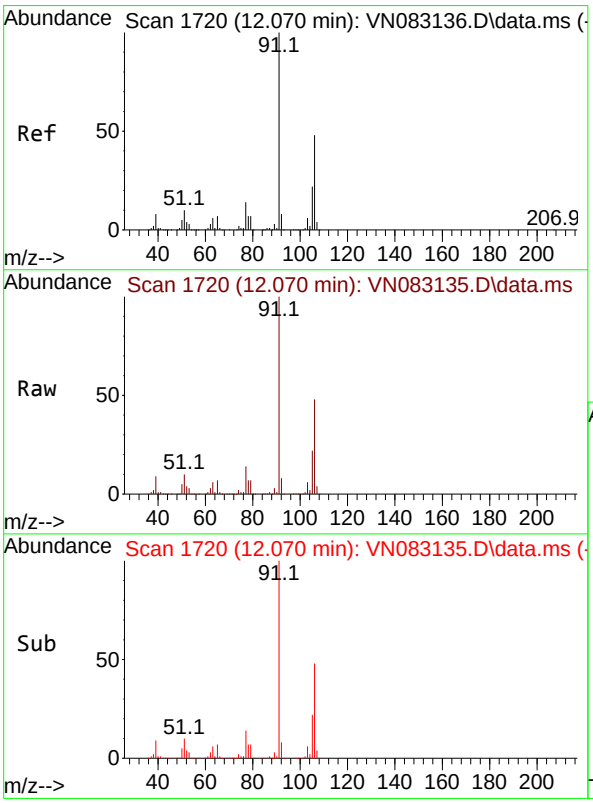
Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.0	36.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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

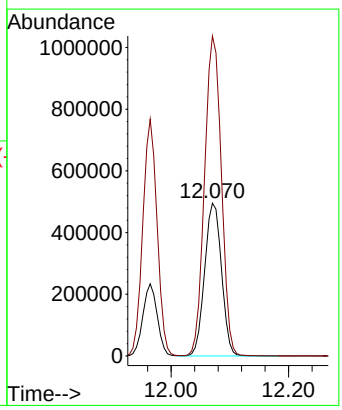


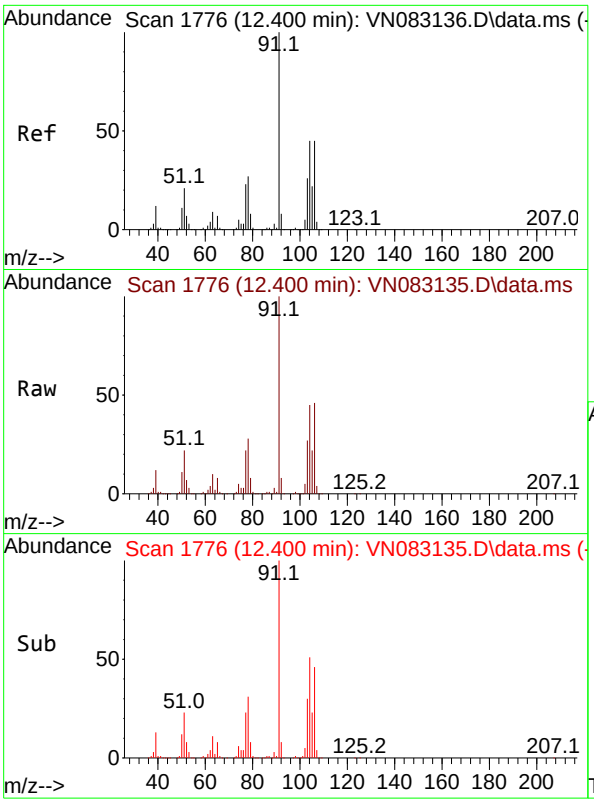


#68
m/p-Xylenes
Concen: 196.641 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

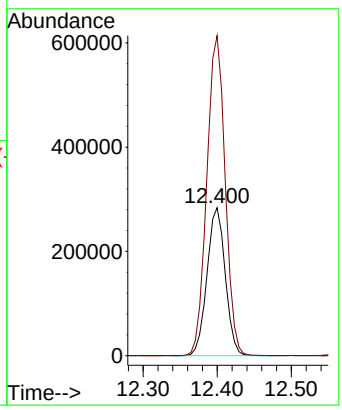
Tgt Ion:106 Resp: 48467

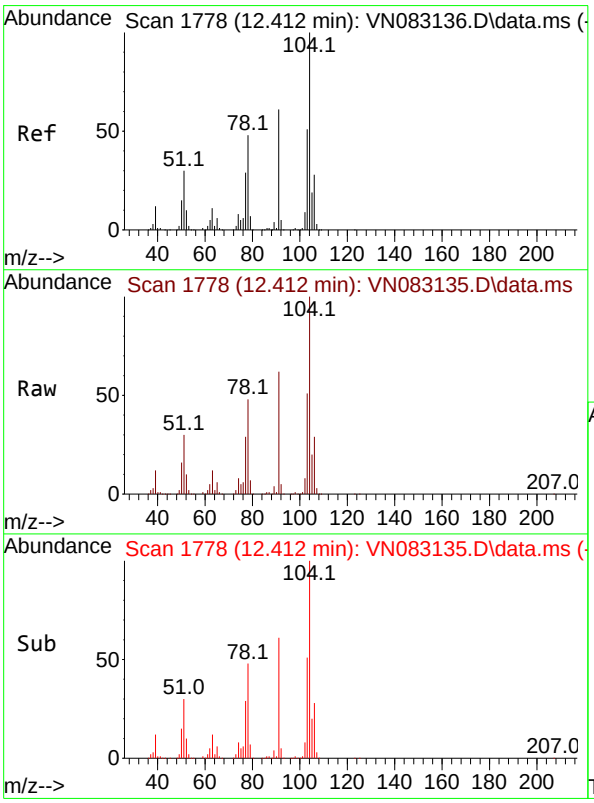
Ion	Ratio	Lower	Upper
106	100		
91	218.1	111.3	333.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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

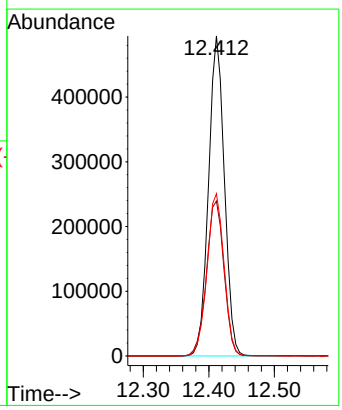


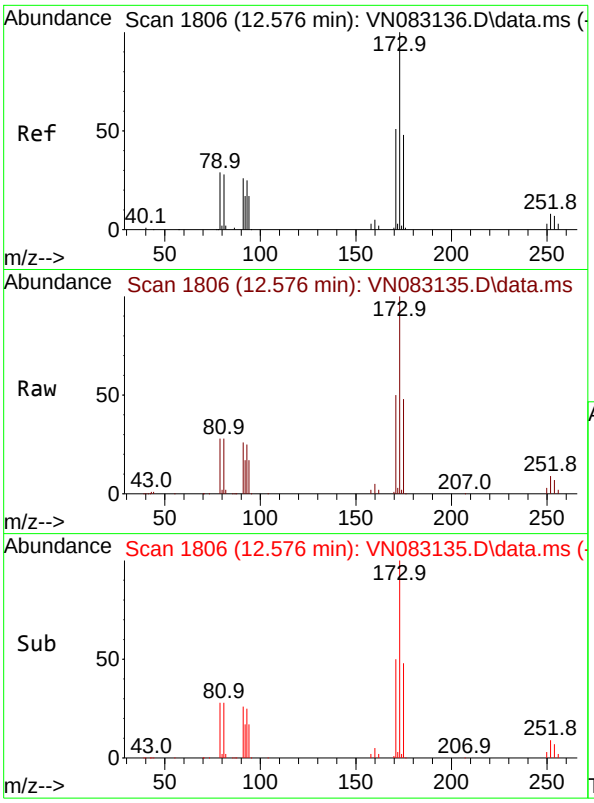


#70
Styrene
Concen: 100.261 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

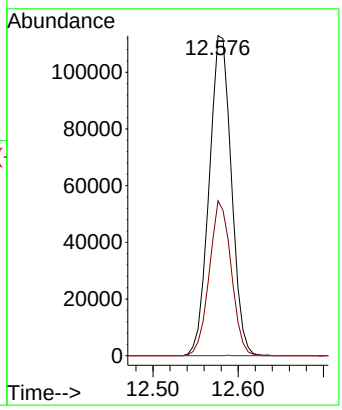




#71
Bromoform
Concen: 104.942 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:173 Resp: 20438

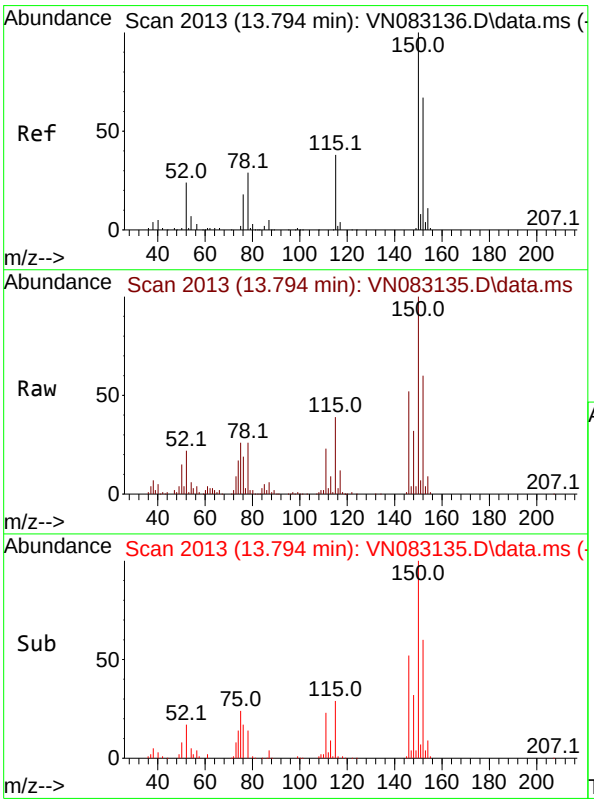
Ion	Ratio	Lower	Upper
173	100		
175	47.6	24.0	72.0
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

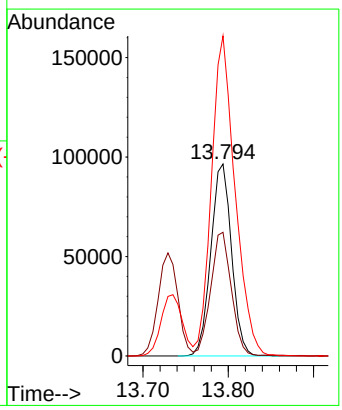
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

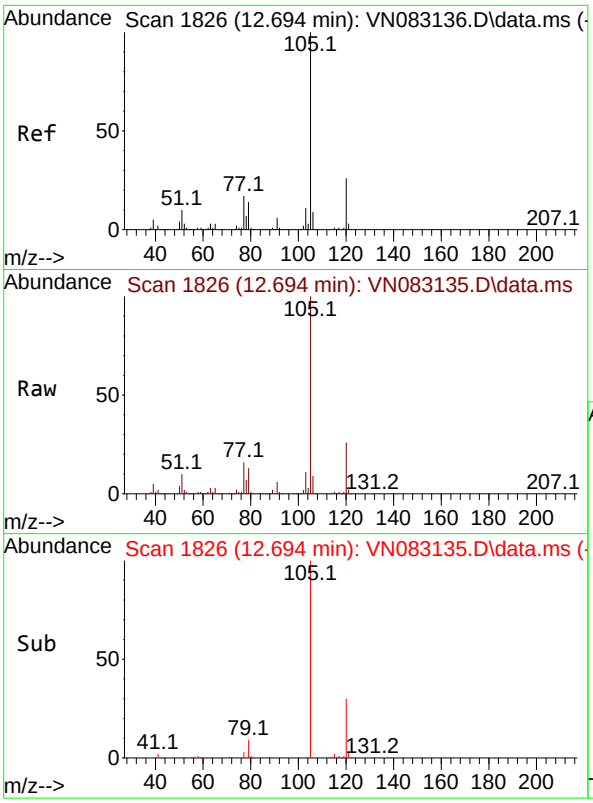


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

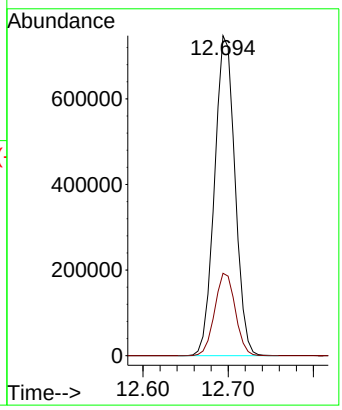




#73
Isopropylbenzene
Concen: 91.399 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:105 Resp: 124484

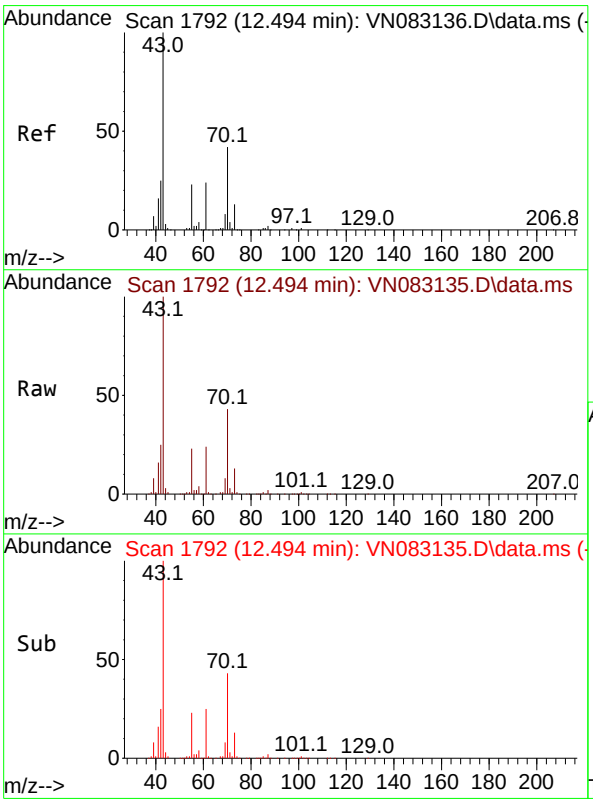
Ion	Ratio	Lower	Upper
105	100		
120	25.9	12.9	38.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

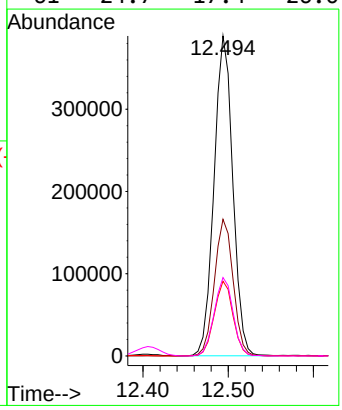
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

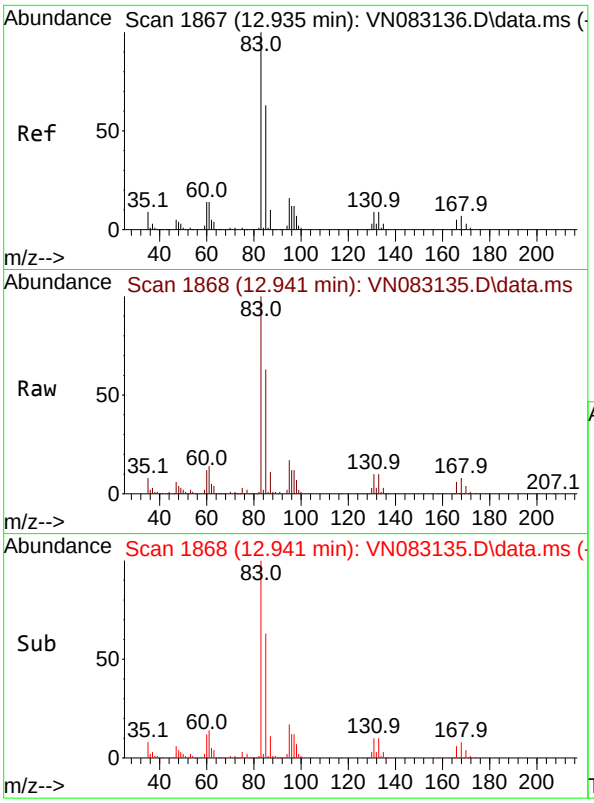


#74
N-amyl acetate
Concen: 89.282 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

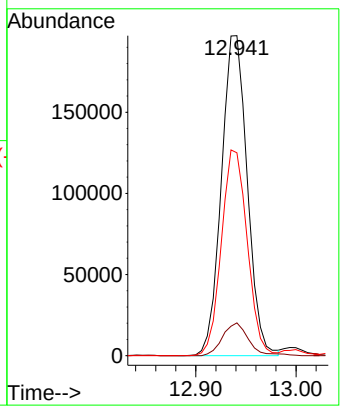
Tgt Ion: 83 Resp: 35334

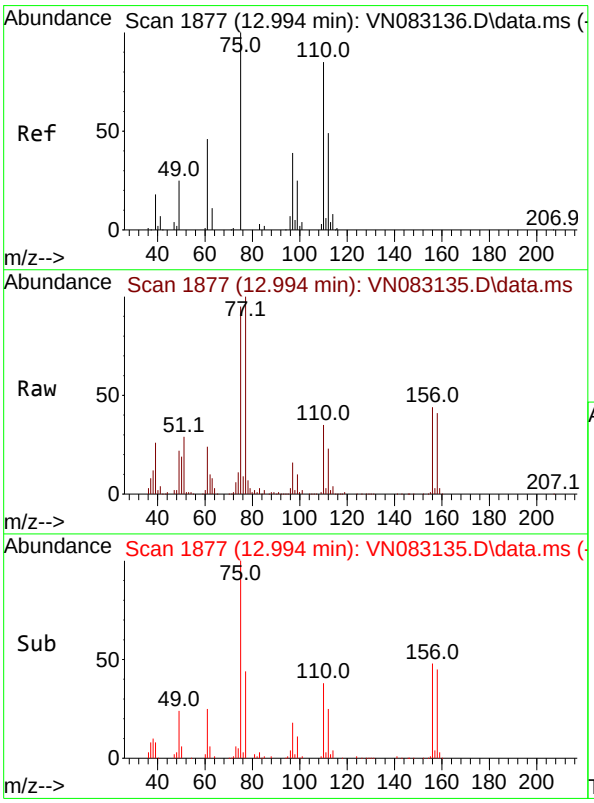
Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.0	14.9
85	64.2	31.9	95.7

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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

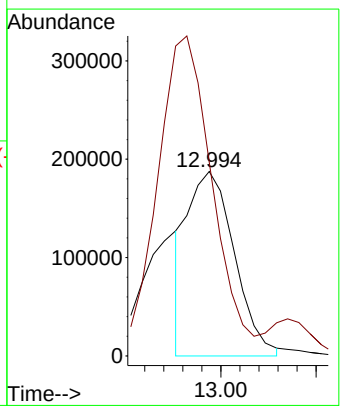


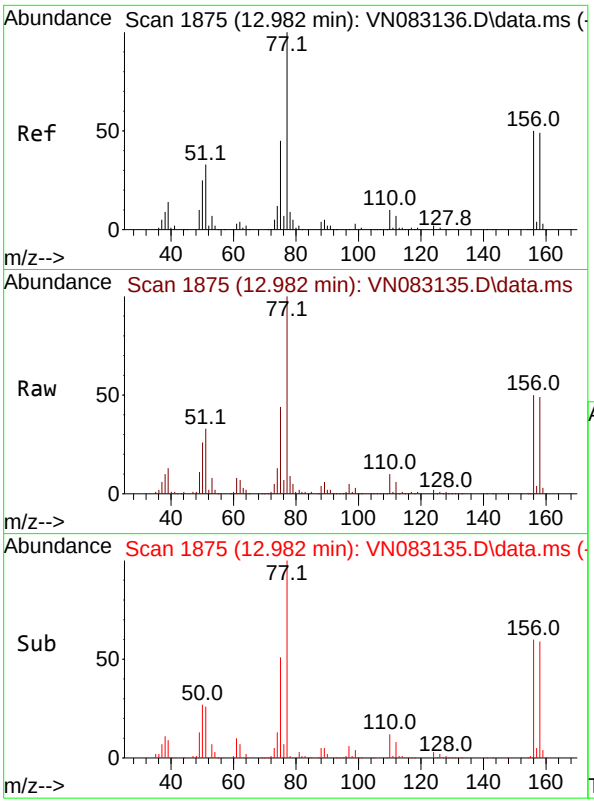


#76
1,2,3-Trichloropropane
Concen: 89.478 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 75 Resp: 320302

Ion	Ratio	Lower	Upper
75	100		
77	203.7	110.9	332.6

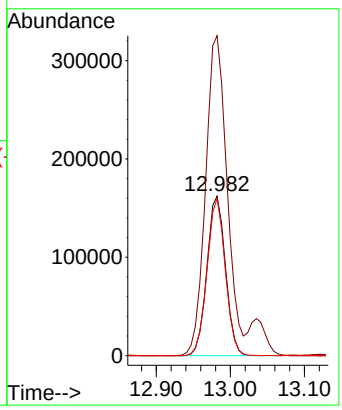




#77
Bromobenzene
Concen: 93.431 ug/l
RT: 12.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:156 Resp: 28267

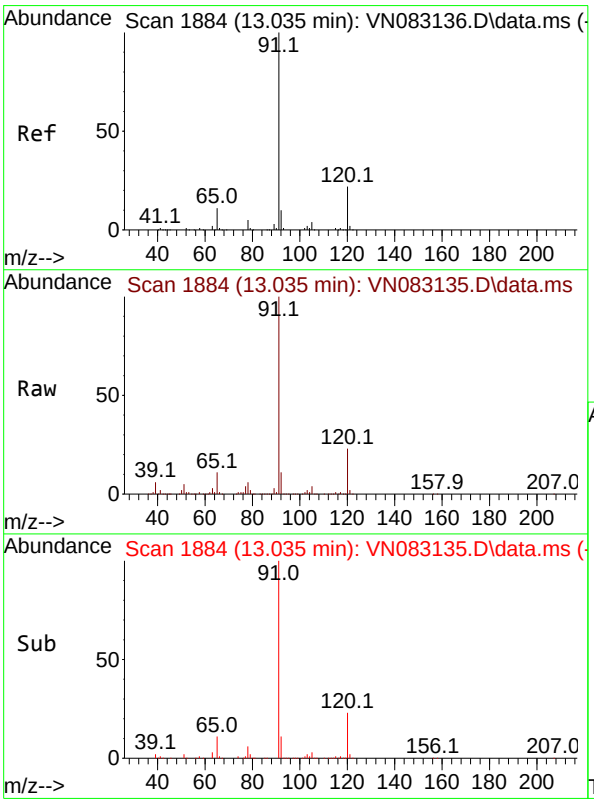
Ion	Ratio	Lower	Upper
156	100		
77	230.9	111.3	333.8
158	96.4	48.3	144.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

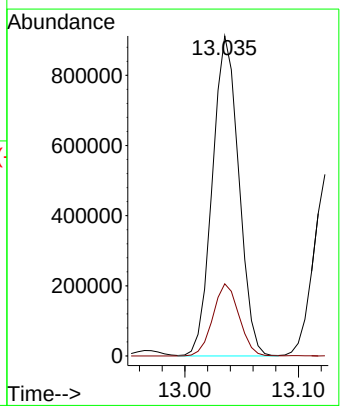
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

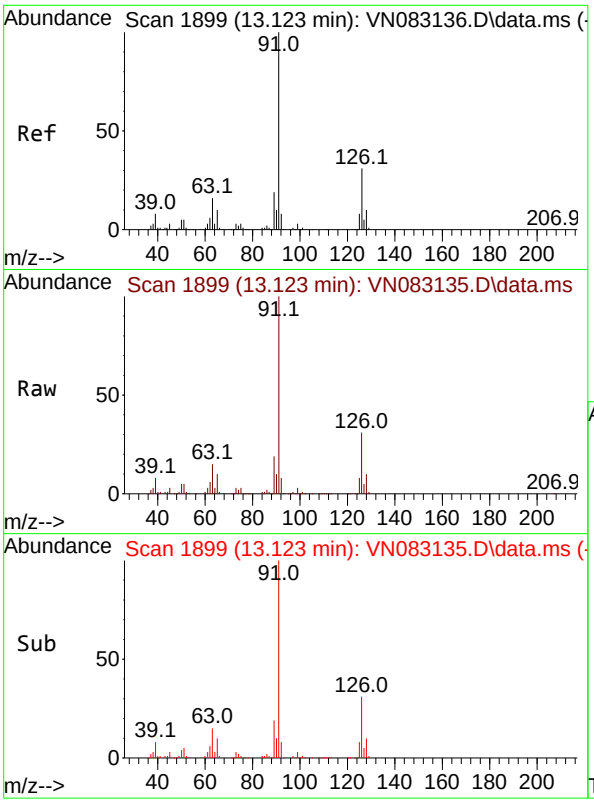


#78
n-propylbenzene
Concen: 93.979 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 91 Resp: 1473868

Ion	Ratio	Lower	Upper
91	100		
120	22.3	10.9	32.9

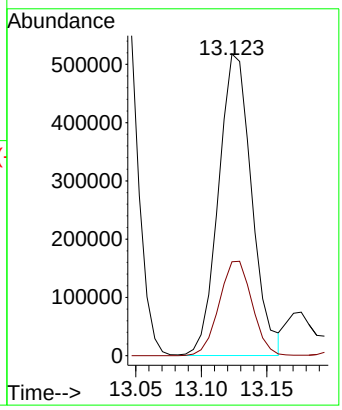




#79
2-Chlorotoluene
Concen: 91.785 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 91 Resp: 91261

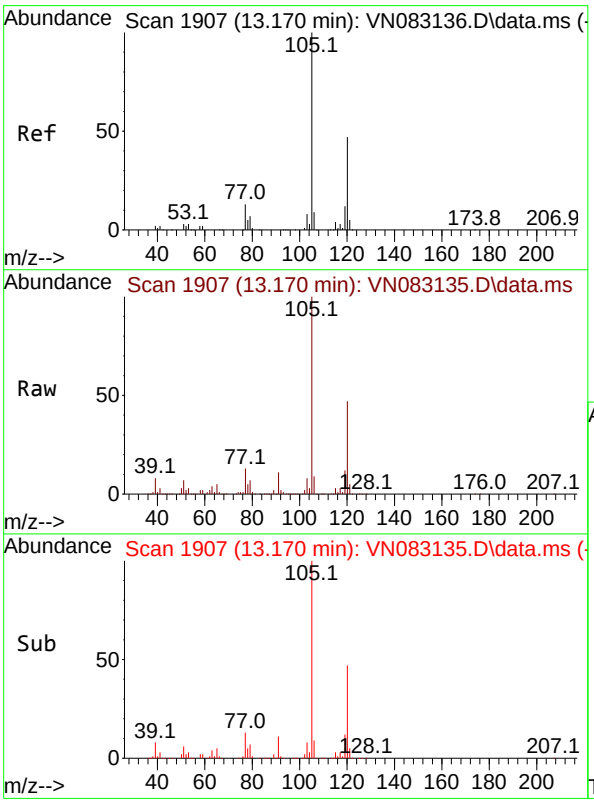
Ion	Ratio	Lower	Upper
91	100		
126	31.1	16.2	48.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

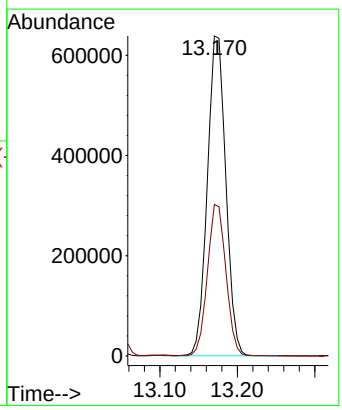
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

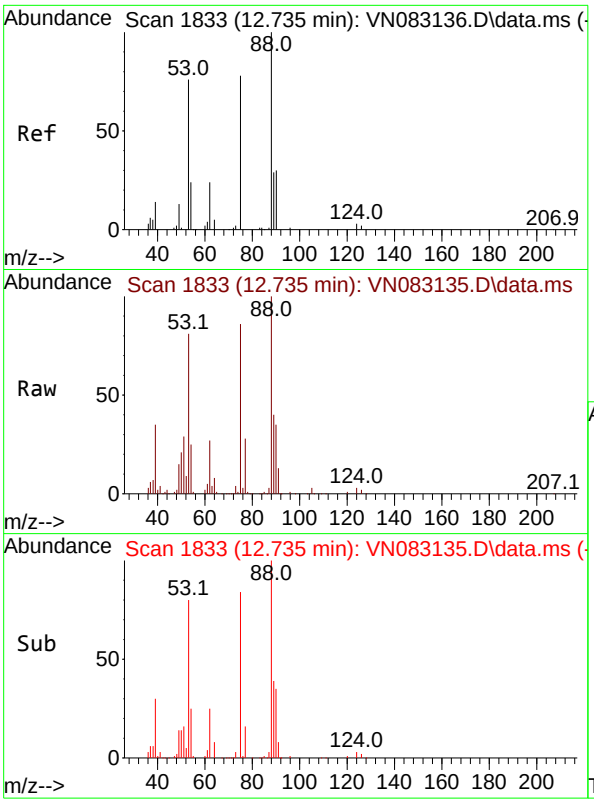


#80
1,3,5-Trimethylbenzene
Concen: 92.690 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:105 Resp: 1056912

Ion	Ratio	Lower	Upper
105	100		
120	47.4	24.3	72.8

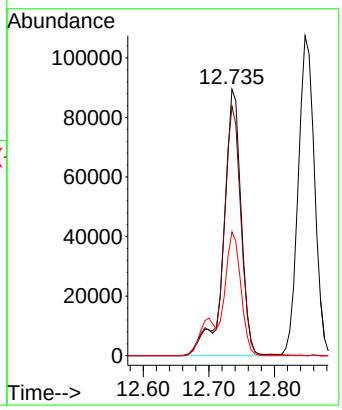




#81
trans-1,4-Dichloro-2-butene
Concen: 100.628 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 75 Resp: 16532

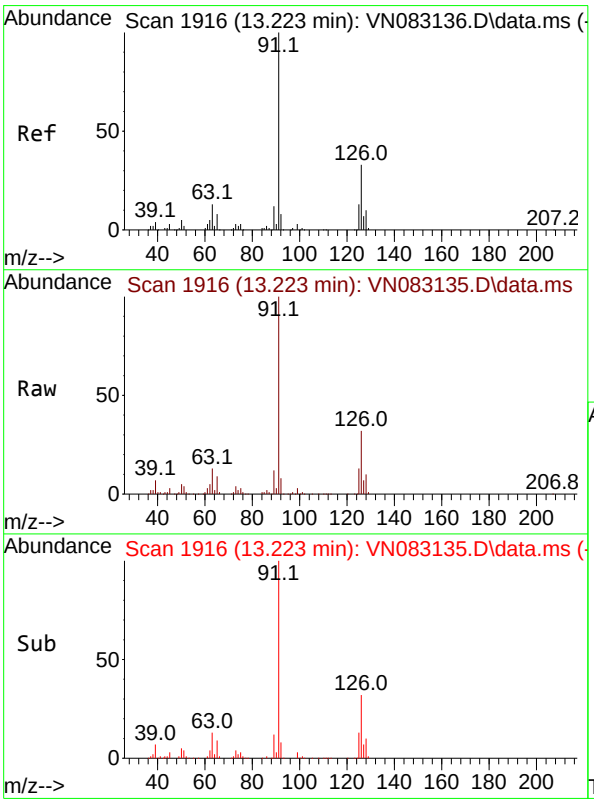
Ion	Ratio	Lower	Upper
75	100		
53	96.5	88.4	132.6
89	41.9	36.3	54.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

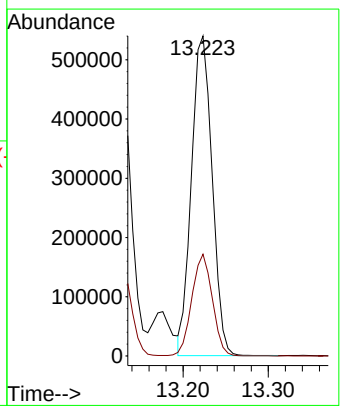
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

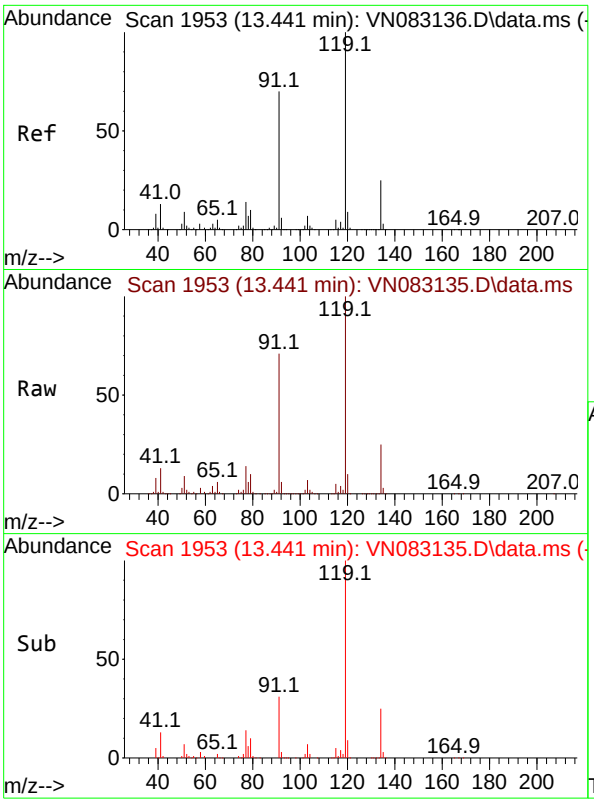


#82
4-Chlorotoluene
Concen: 91.381 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 91 Resp: 911384

Ion	Ratio	Lower	Upper
91	100		
126	31.4	16.2	48.6

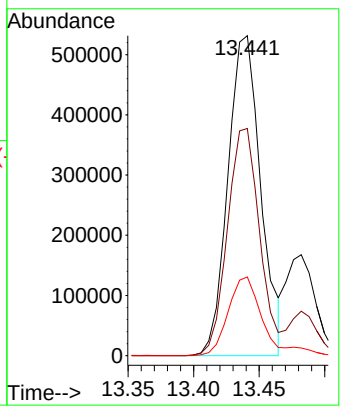




#83
tert-Butylbenzene
Concen: 91.918 ug/l
RT: 13.441 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:119 Resp: 92819

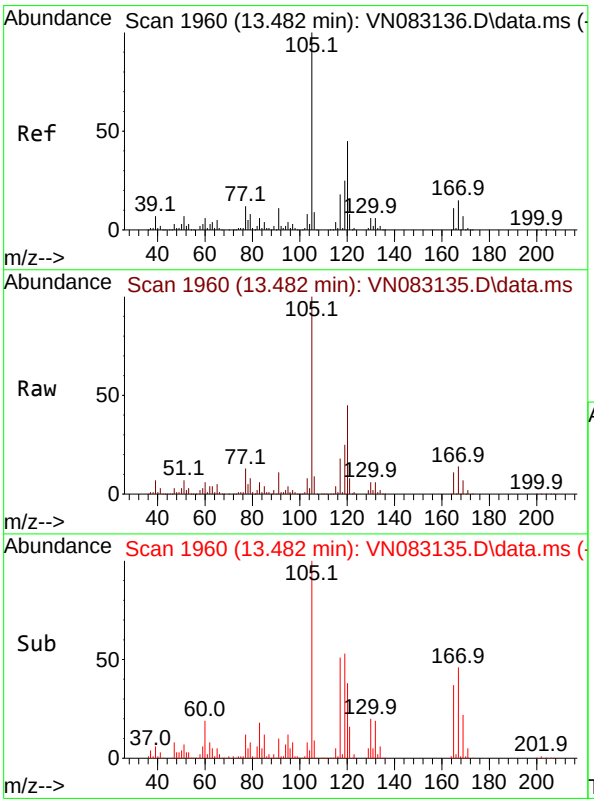
Ion	Ratio	Lower	Upper
119	100		
91	69.3	35.0	105.1
134	26.1	13.3	39.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

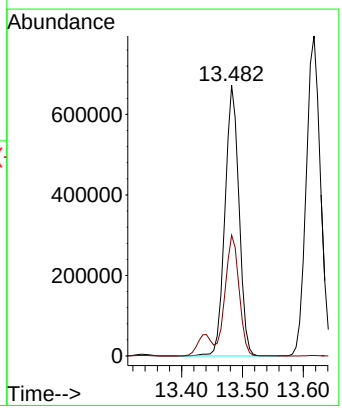
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

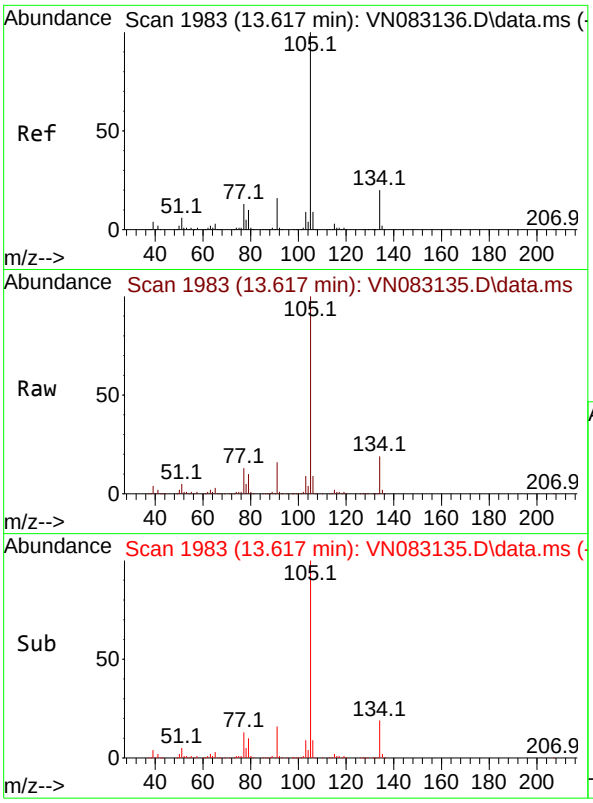


#84
1,2,4-Trimethylbenzene
Concen: 93.675 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:105 Resp: 1076449

Ion	Ratio	Lower	Upper
105	100		
120	44.4	21.9	65.8

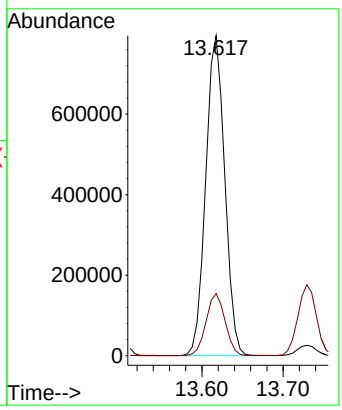




#85
sec-Butylbenzene
Concen: 93.978 ug/l
RT: 13.617 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:105 Resp: 129490

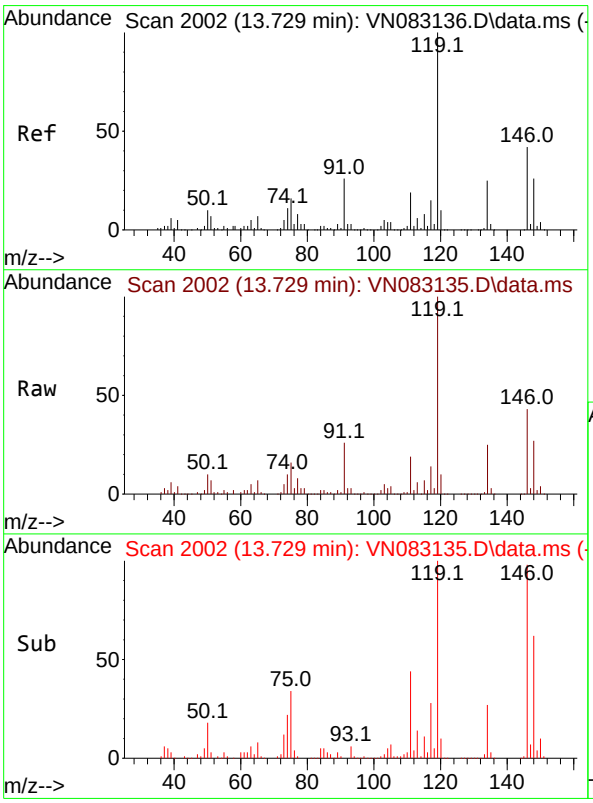
Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

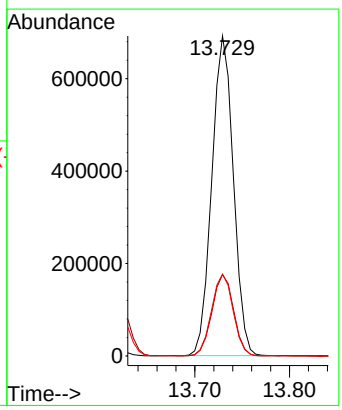
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

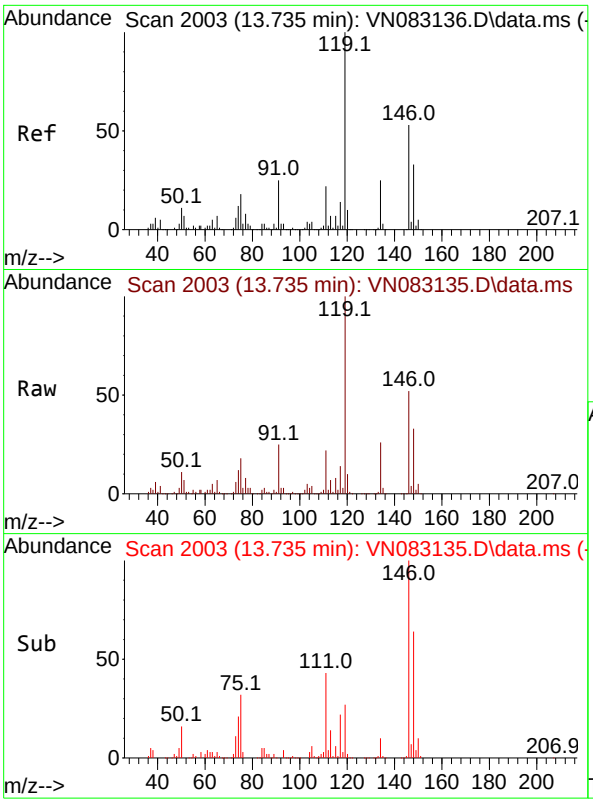


#86
p-Isopropyltoluene
Concen: 96.022 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

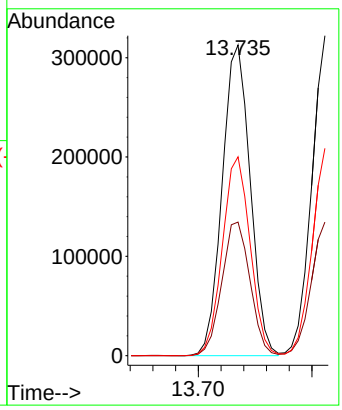




#87
1,3-Dichlorobenzene
Concen: 94.009 ug/l
RT: 13.735 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:146 Resp: 53519

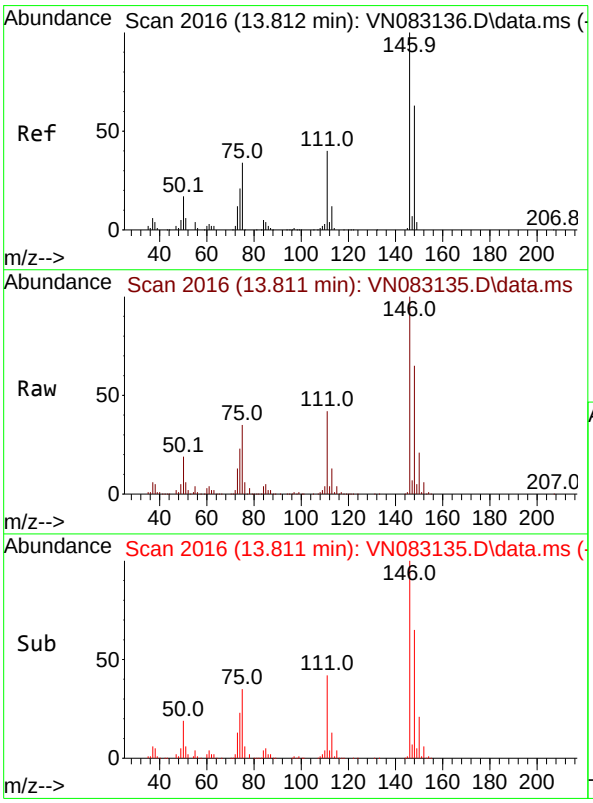
Ion	Ratio	Lower	Upper
146	100		
111	43.5	20.6	61.9
148	63.6	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

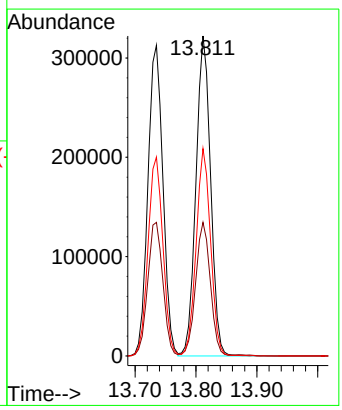
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

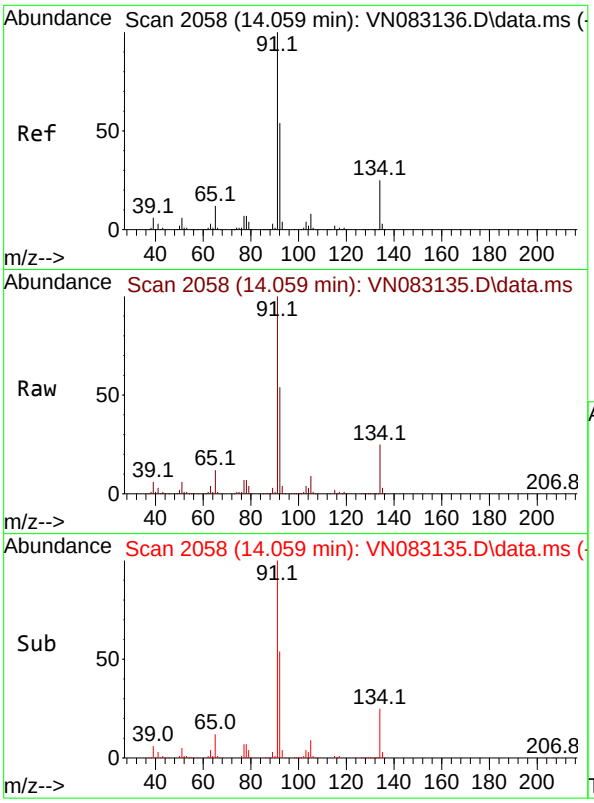


#88
1,4-Dichlorobenzene
Concen: 93.900 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

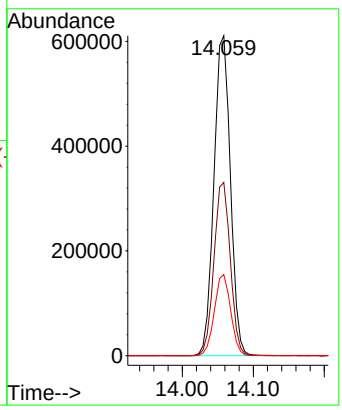




#89
n-Butylbenzene
Concen: 99.461 ug/l
RT: 14.059 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 91 Resp: 98048

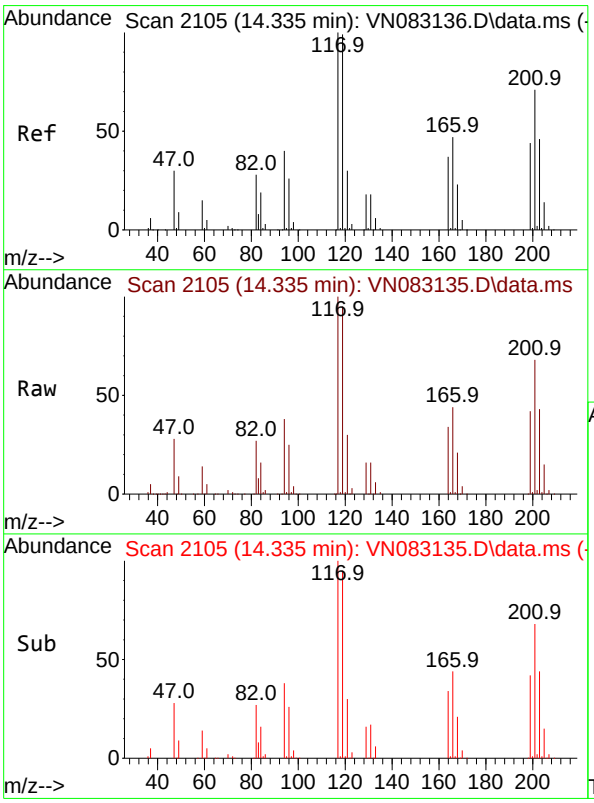
Ion	Ratio	Lower	Upper
91	100		
92	53.8	26.1	78.3
134	25.2	12.1	36.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

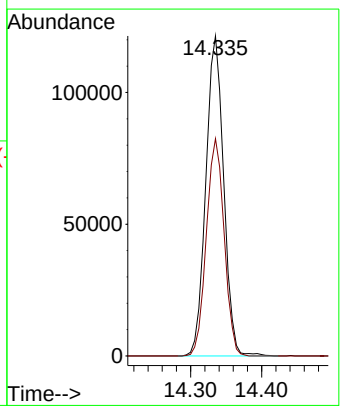
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

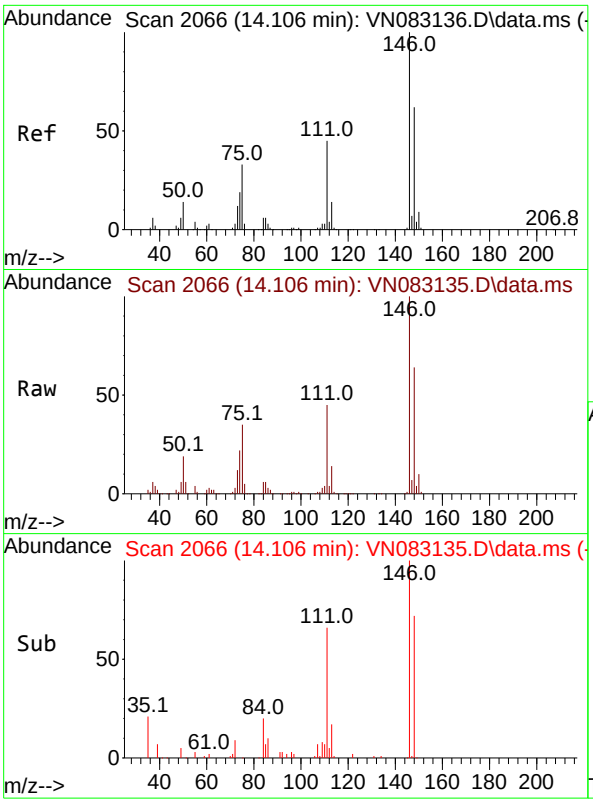


#90
Hexachloroethane
Concen: 96.320 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:117 Resp: 211710

Ion	Ratio	Lower	Upper
117	100		
201	67.7	35.8	107.3

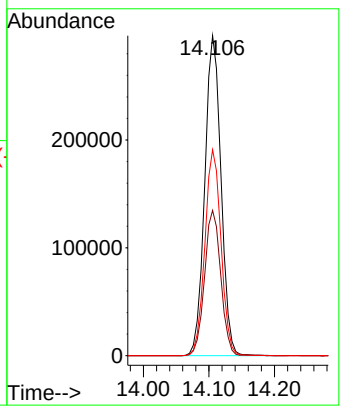




#91
1,2-Dichlorobenzene
Concen: 92.863 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:146 Resp: 51158

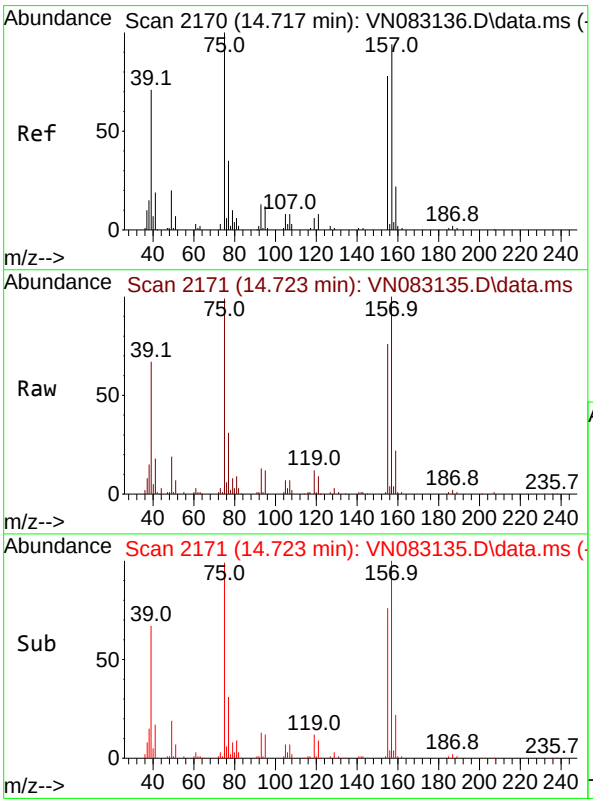
Ion	Ratio	Lower	Upper
146	100		
111	45.4	21.4	64.2
148	63.9	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

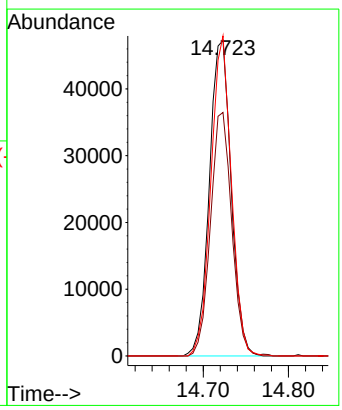
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

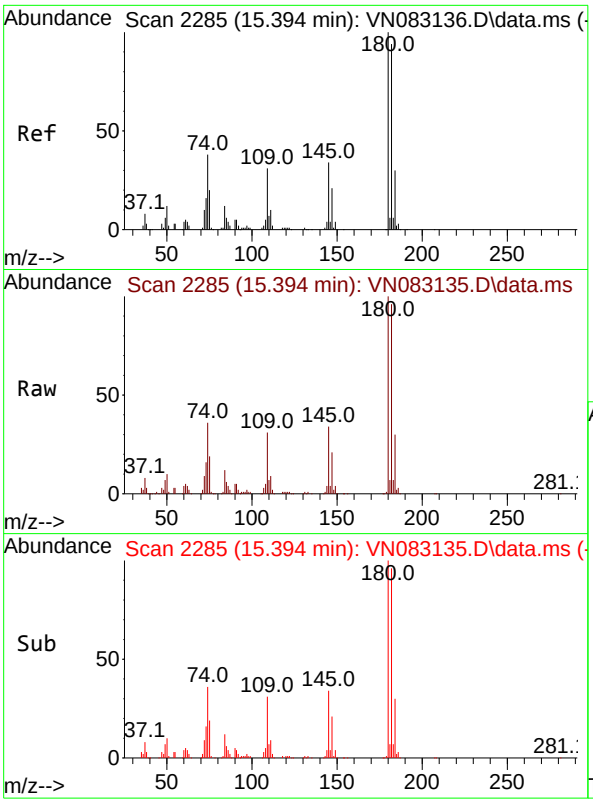


#92
1,2-Dibromo-3-Chloropropane
Concen: 89.788 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

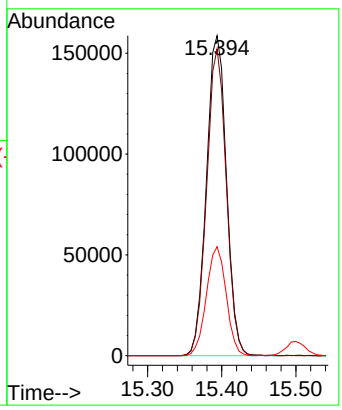




#93
1,2,4-Trichlorobenzene
Concen: 96.456 ug/l
RT: 15.394 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:180 Resp: 29769

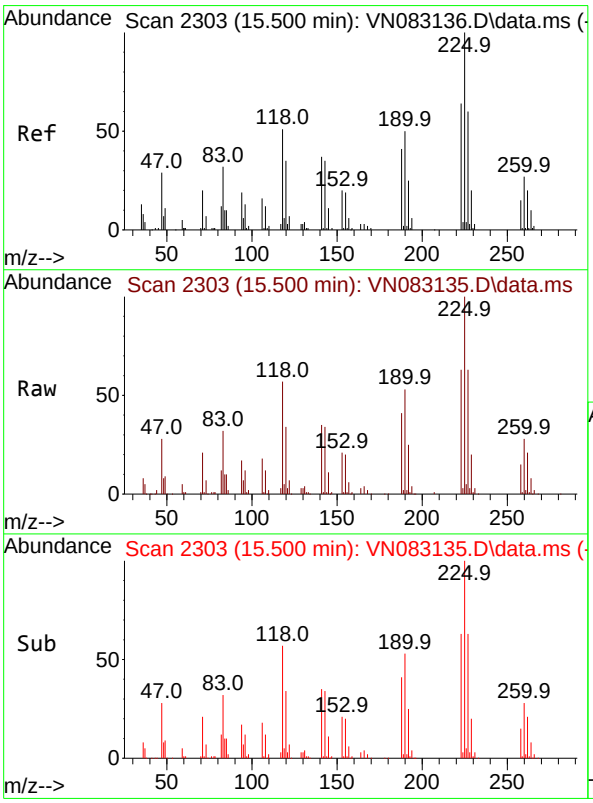
Ion	Ratio	Lower	Upper
180	100		
182	94.1	47.3	141.8
145	33.6	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

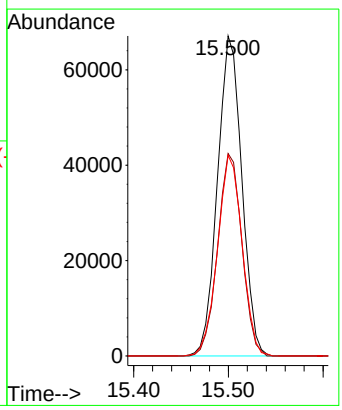
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

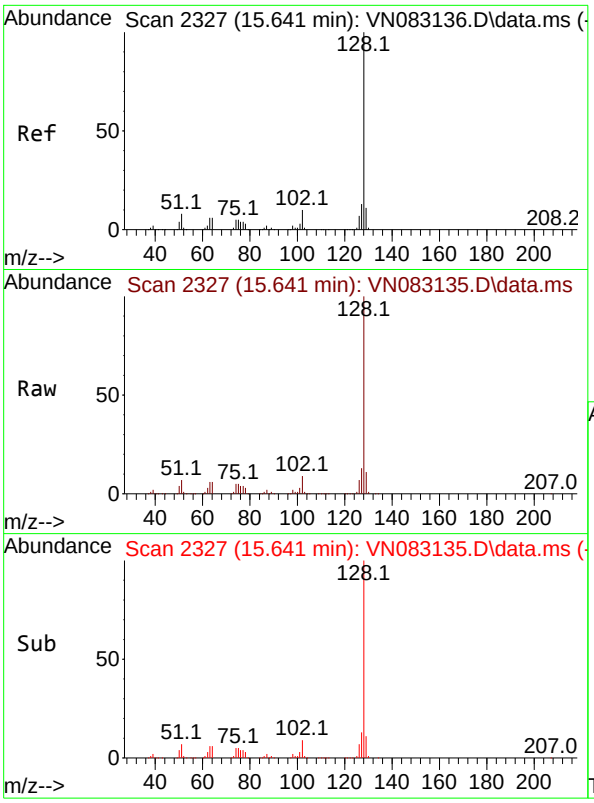


#94
Hexachlorobutadiene
Concen: 87.268 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

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

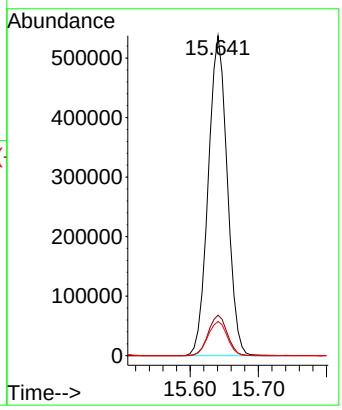




#95
Naphthalene
Concen: 95.391 ug/l
RT: 15.641 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:128 Resp: 104286

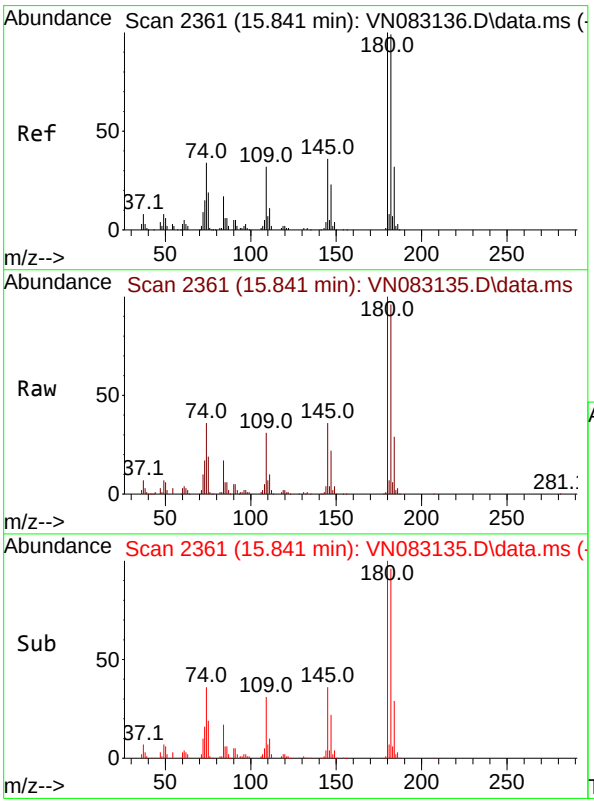
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.6	16.0
129	10.9	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

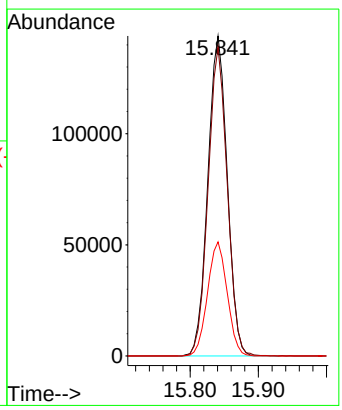
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#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

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

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

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

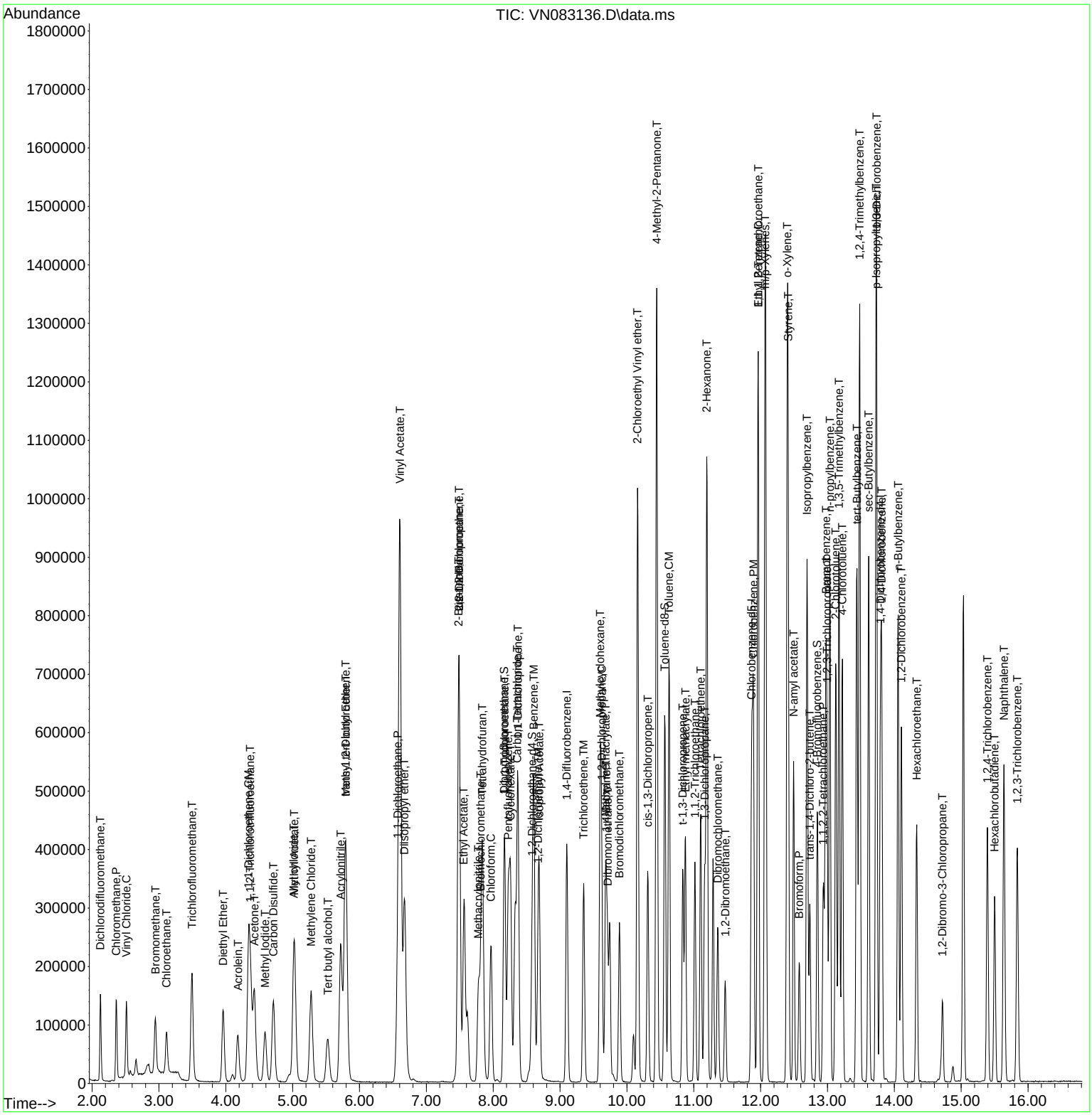
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083136.D
Acq On : 07 Aug 2024 10:58
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

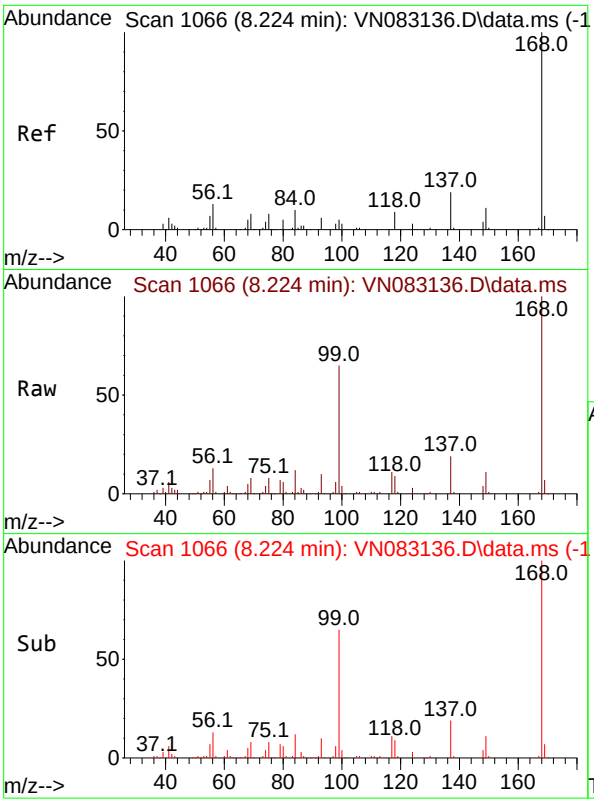
Quant Time: Aug 08 06:15:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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

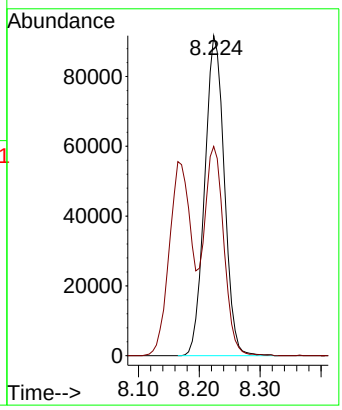




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:168 Resp: 20491

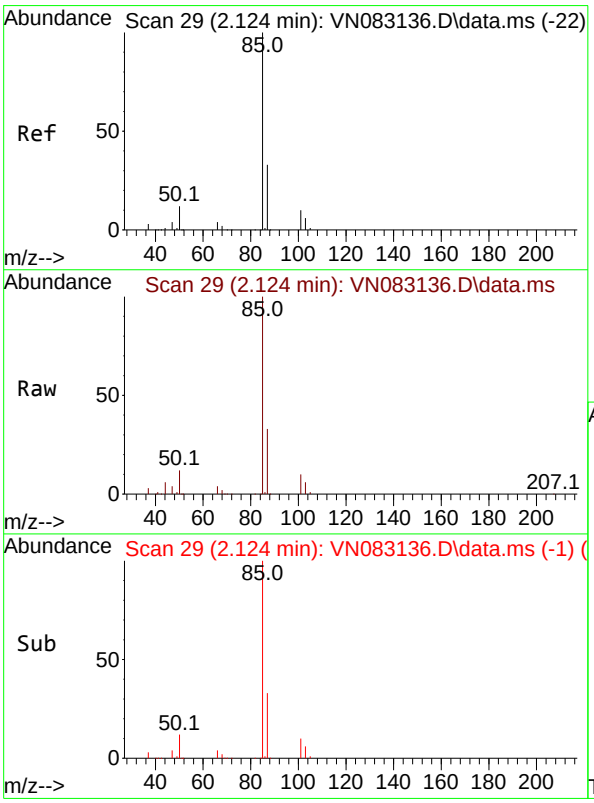
Ion	Ratio	Lower	Upper
168	100		
99	65.4	48.2	72.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

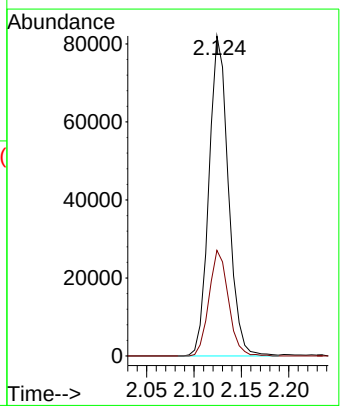
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

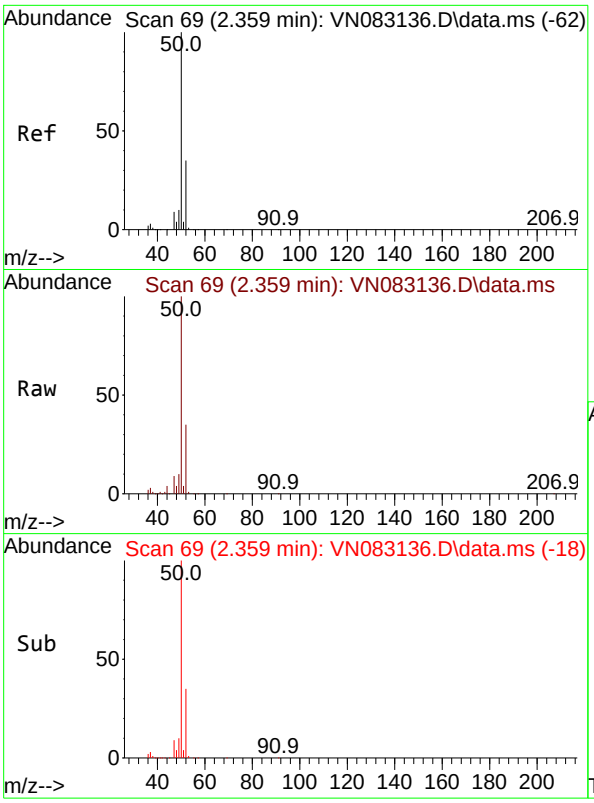


#2
Dichlorodifluoromethane
Concen: 50.312 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 85 Resp: 116913

Ion	Ratio	Lower	Upper
85	100		
87	33.0	15.7	47.0

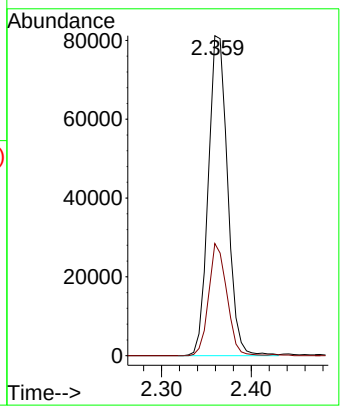




#3
Chloromethane
Concen: 50.915 ug/l
RT: 2.359 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 50 Resp: 12113

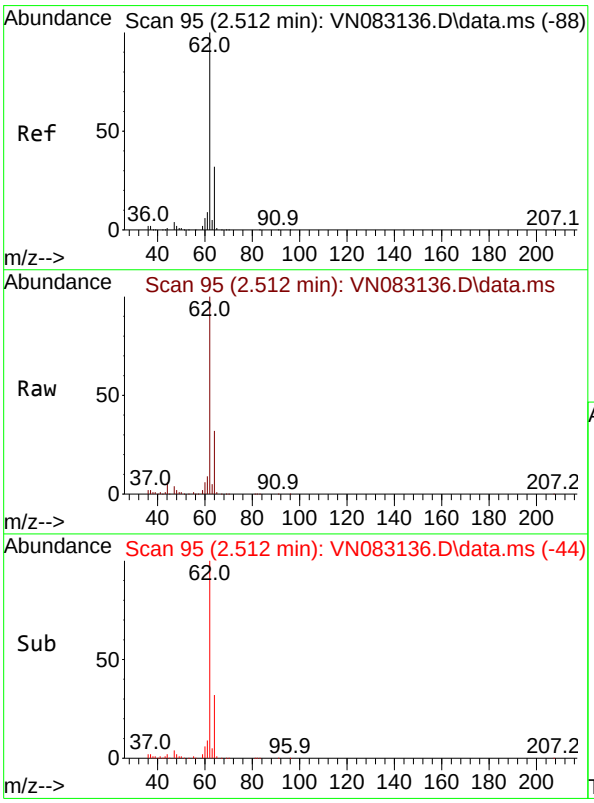
Ion	Ratio	Lower	Upper
50	100		
52	35.1	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

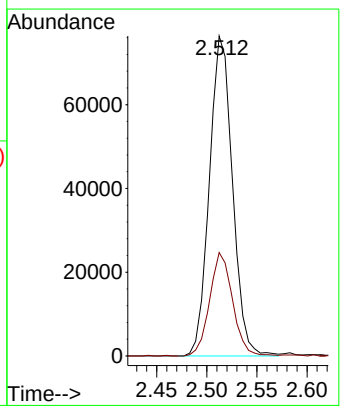
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

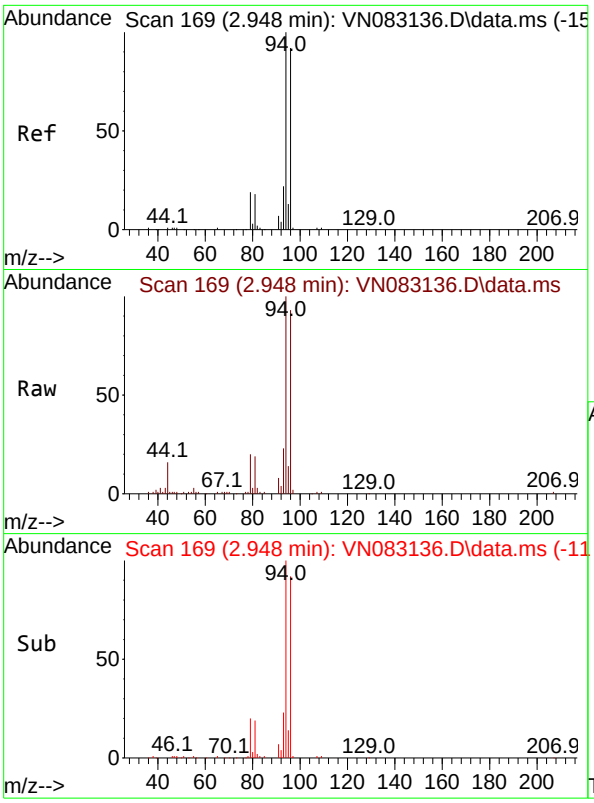


#4
Vinyl Chloride
Concen: 50.482 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 62 Resp: 122548

Ion	Ratio	Lower	Upper
62	100		
64	32.3	25.0	37.6

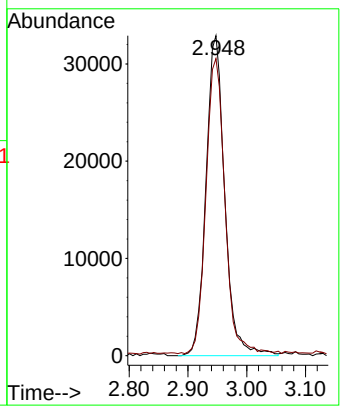




#5
Bromomethane
Concen: 48.538 ug/l
RT: 2.948 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 94 Resp: 7311

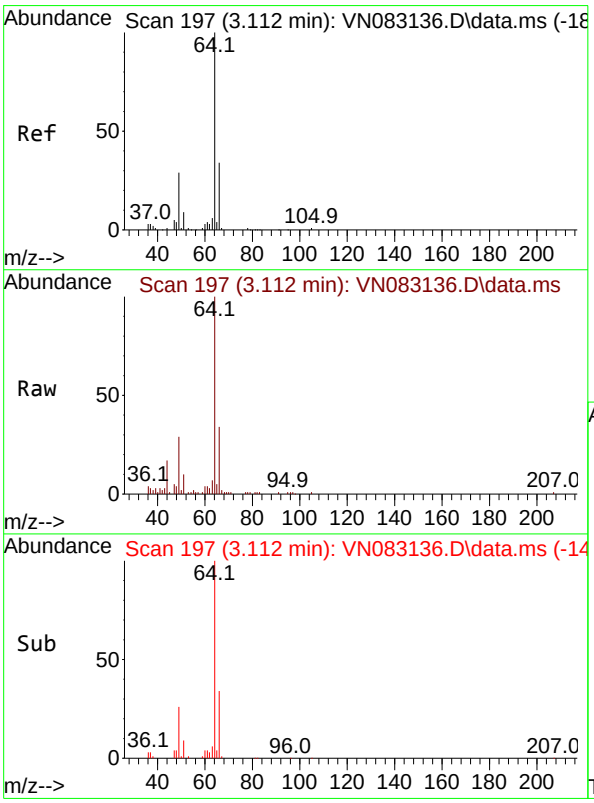
Ion	Ratio	Lower	Upper
94	100		
96	92.2	78.0	117.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

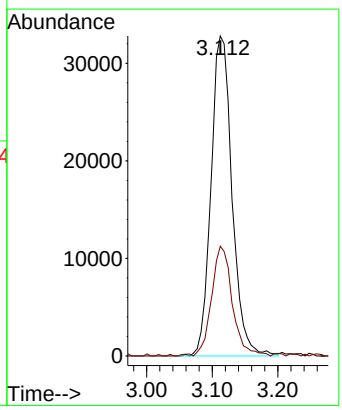
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

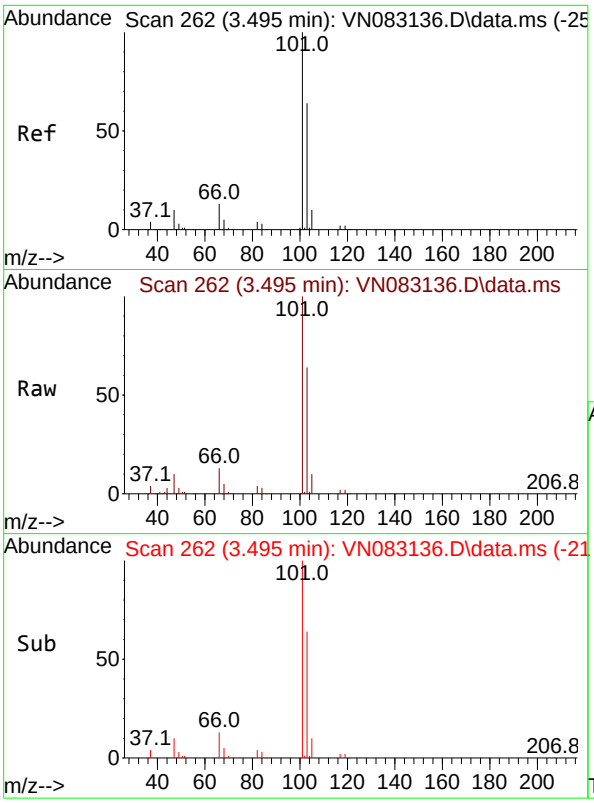


#6
Chloroethane
Concen: 48.043 ug/l
RT: 3.112 min Scan# 197
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

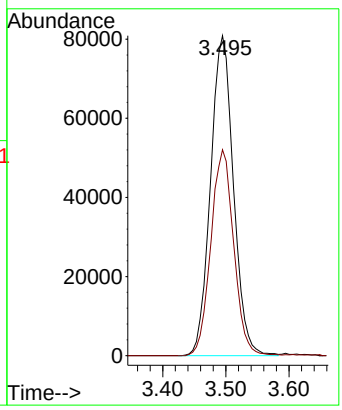
Tgt Ion:101 Resp: 20384

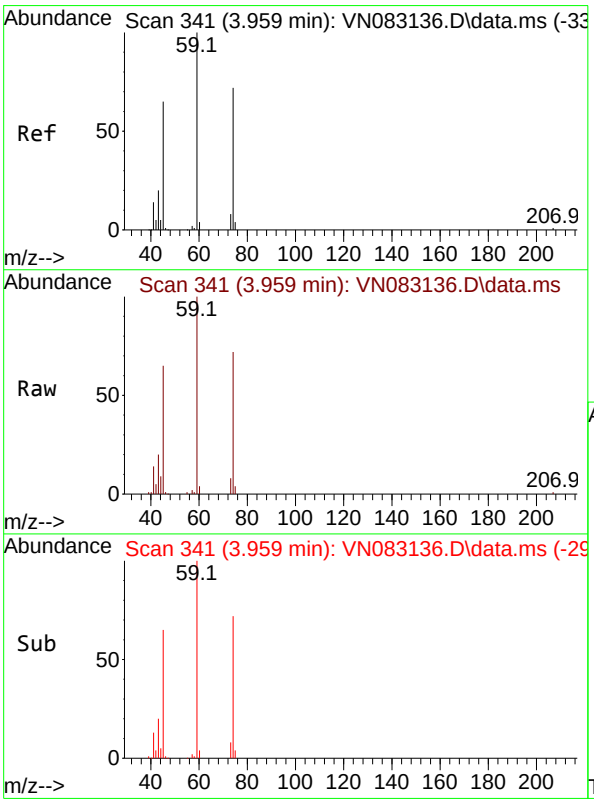
Ion	Ratio	Lower	Upper
101	100		
103	64.3	52.7	79.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

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

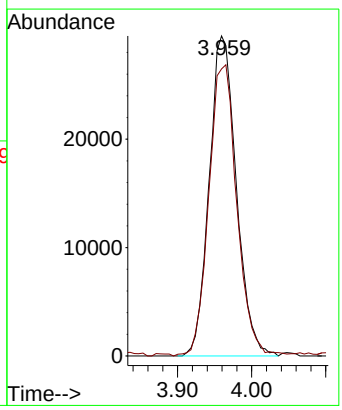


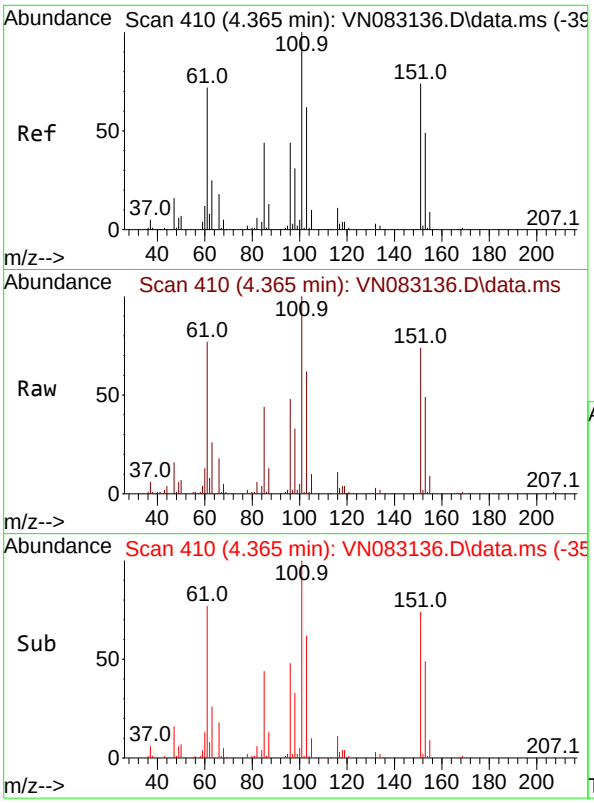


#8
Diethyl Ether
Concen: 50.318 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

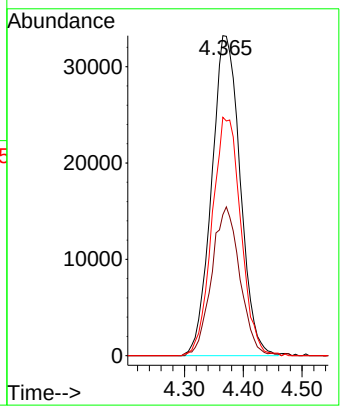
Tgt Ion:101 Resp: 11220

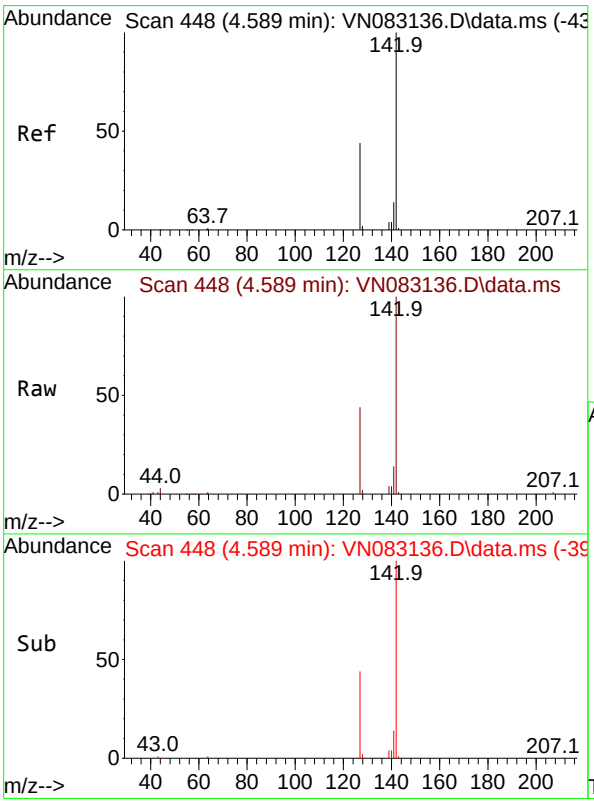
Ion	Ratio	Lower	Upper
101	100		
85	45.9	38.3	57.5
151	75.1	59.3	88.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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

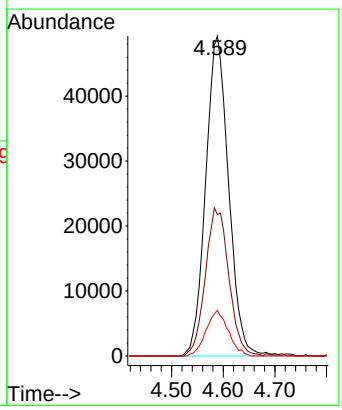


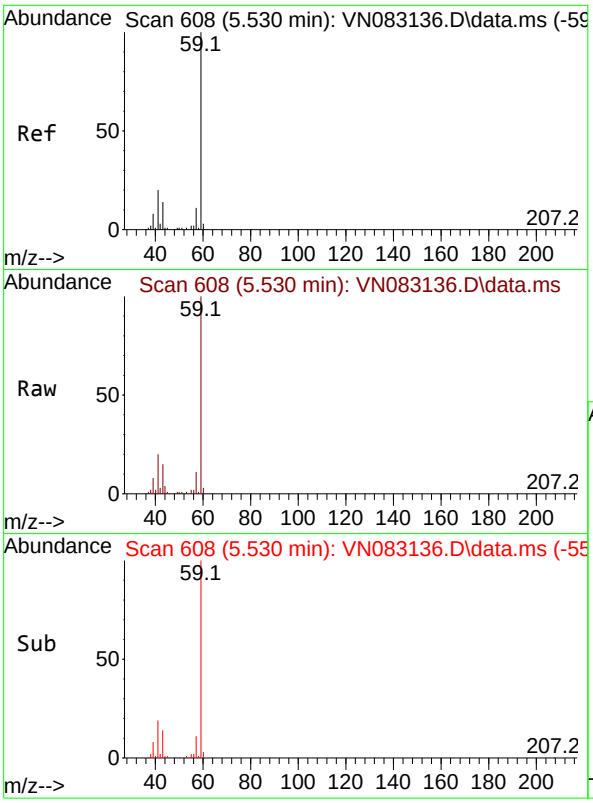


#10
Methyl Iodide
Concen: 52.170 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

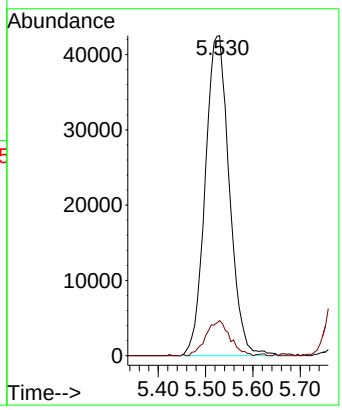




#11
Tert butyl alcohol
Concen: 247.904 ug/l
RT: 5.530 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 59 Resp: 15026

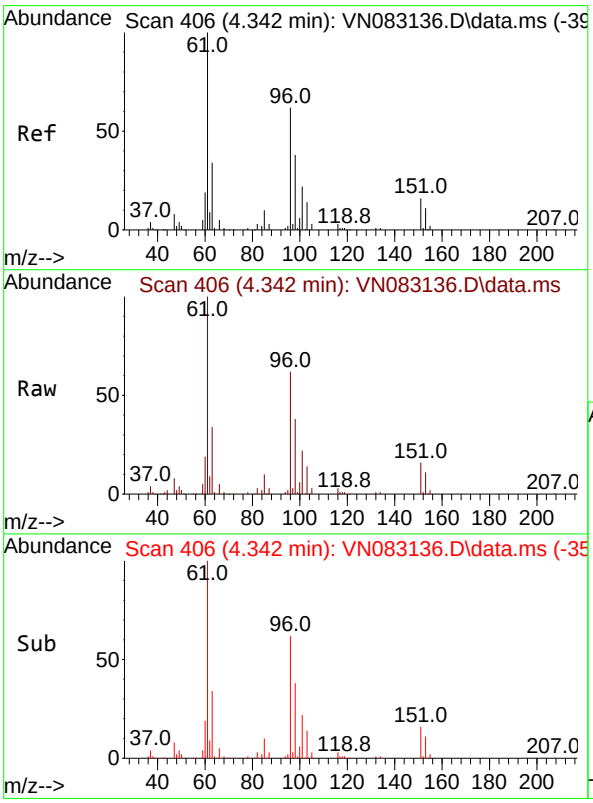
Ion	Ratio	Lower	Upper
59	100		
57	11.0	8.9	13.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

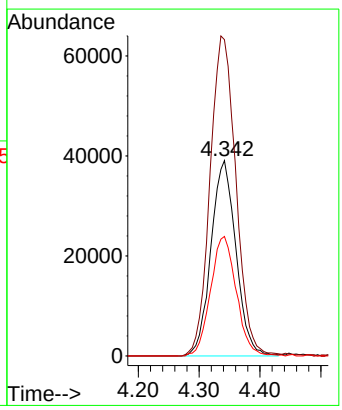
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

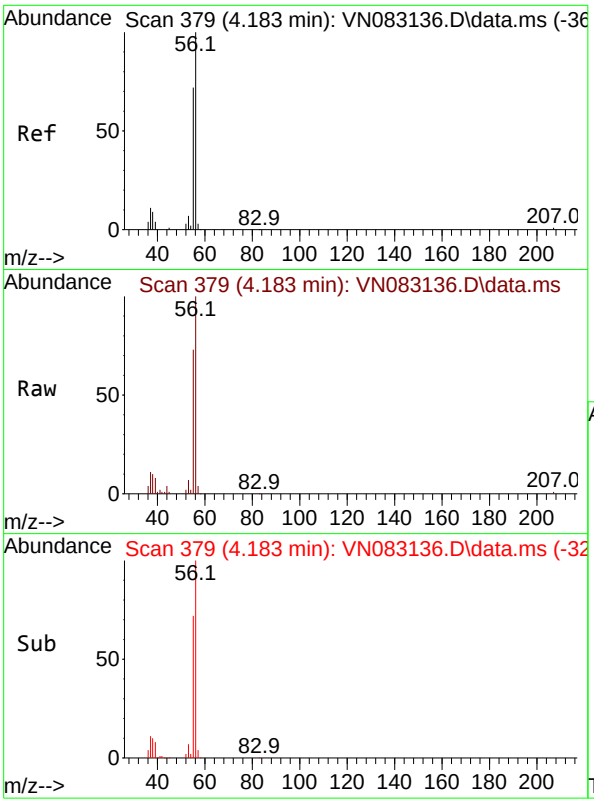


#12
1,1-Dichloroethene
Concen: 49.114 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

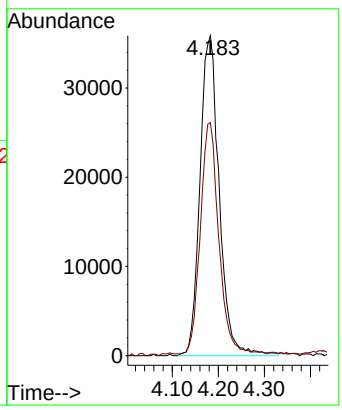




#13
Acrolein
Concen: 263.954 ug/l
RT: 4.183 min Scan# 3
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 56 Resp: 10427

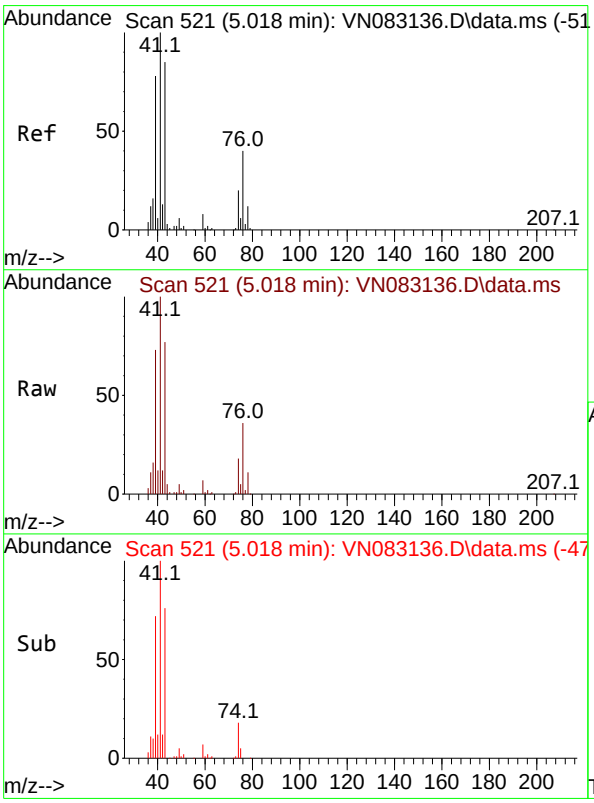
Ion	Ratio	Lower	Upper
56	100		
55	68.8	56.4	84.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

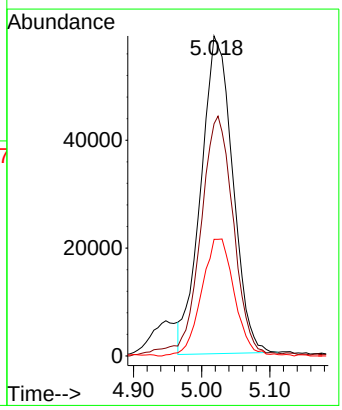
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

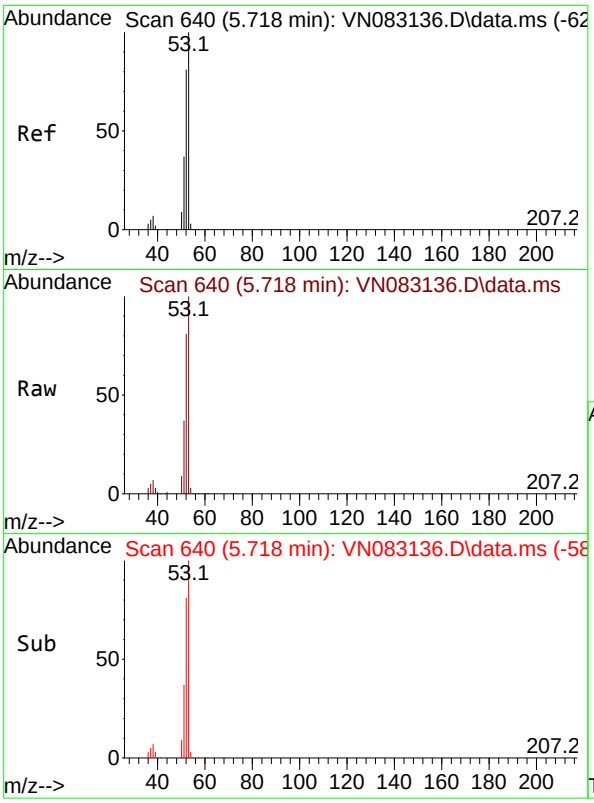


#14
Allyl chloride
Concen: 44.541 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

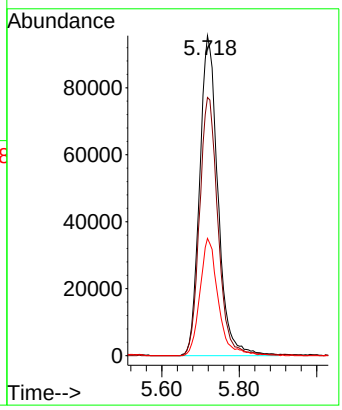




#15
Acrylonitrile
Concen: 251.149 ug/l
RT: 5.718 min Scan# 64
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 53 Resp: 31309

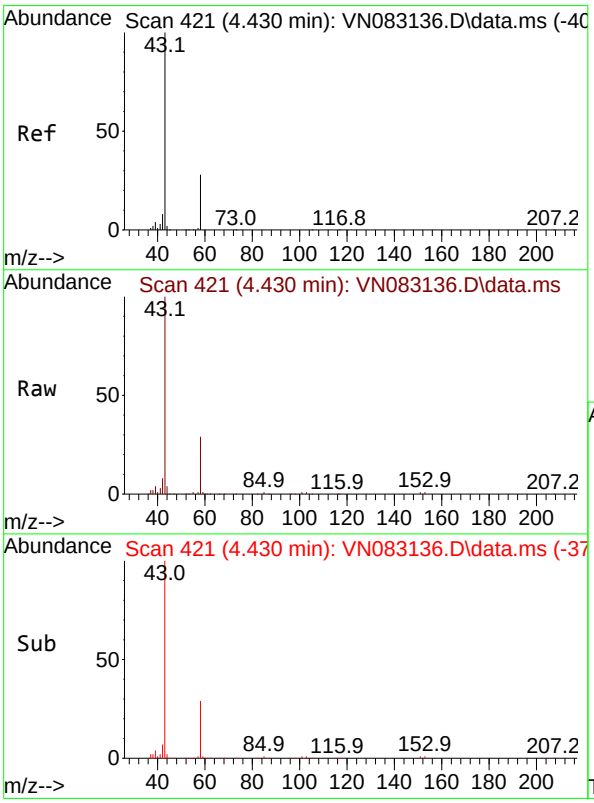
Ion	Ratio	Lower	Upper
53	100		
52	81.2	66.6	100.0
51	36.5	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

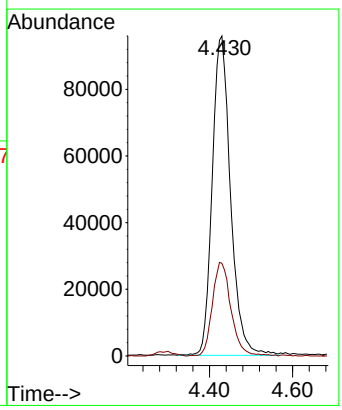
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

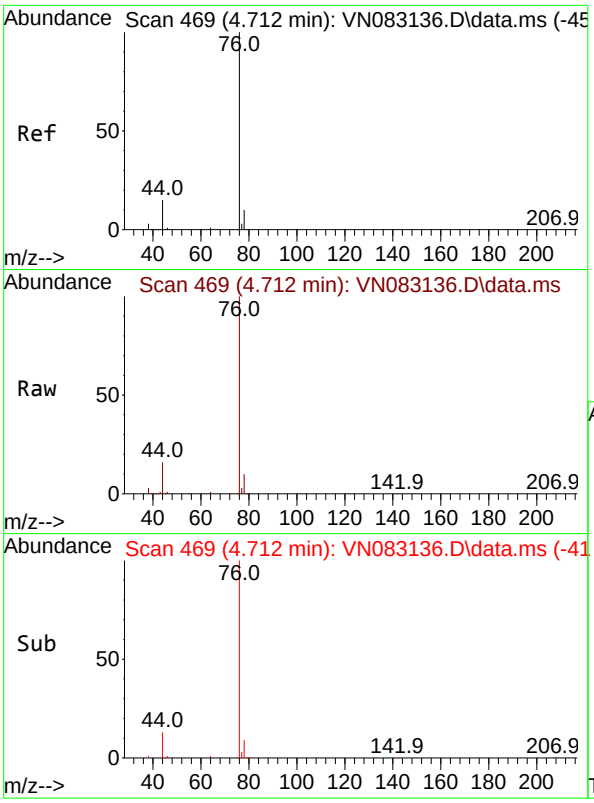


#16
Acetone
Concen: 256.804 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 43 Resp: 293091

Ion	Ratio	Lower	Upper
43	100		
58	29.0	21.8	32.6

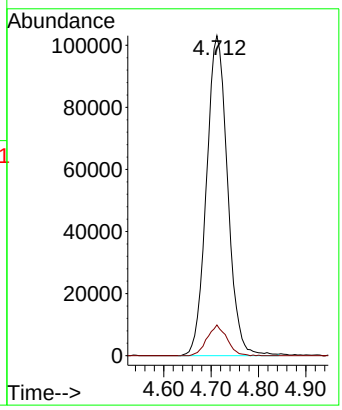




#17
Carbon Disulfide
Concen: 48.094 ug/l
RT: 4.712 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 76 Resp: 31965

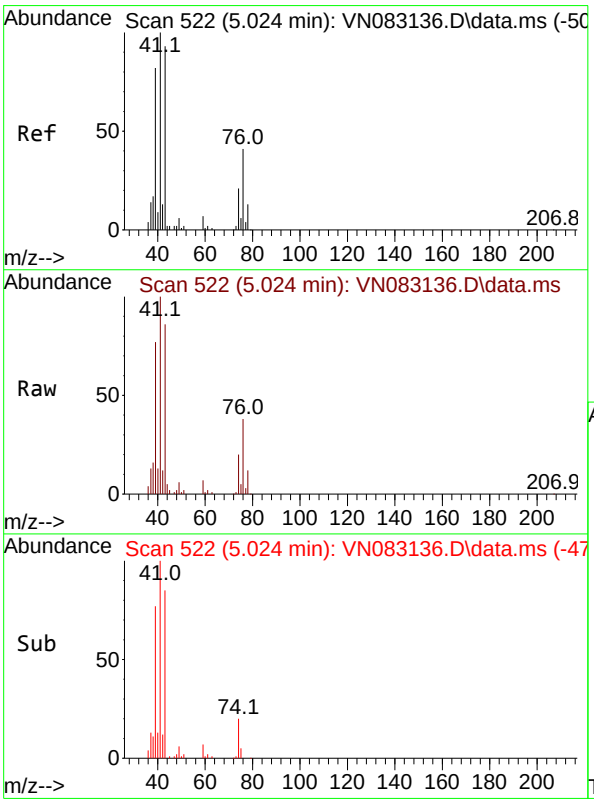
Ion	Ratio	Lower	Upper
76	100		
78	9.6	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

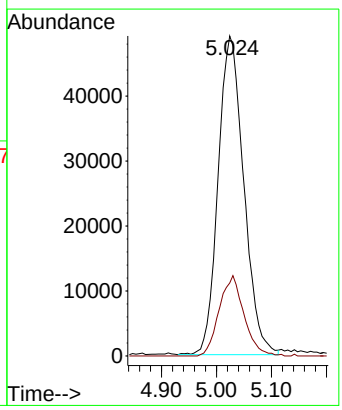
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

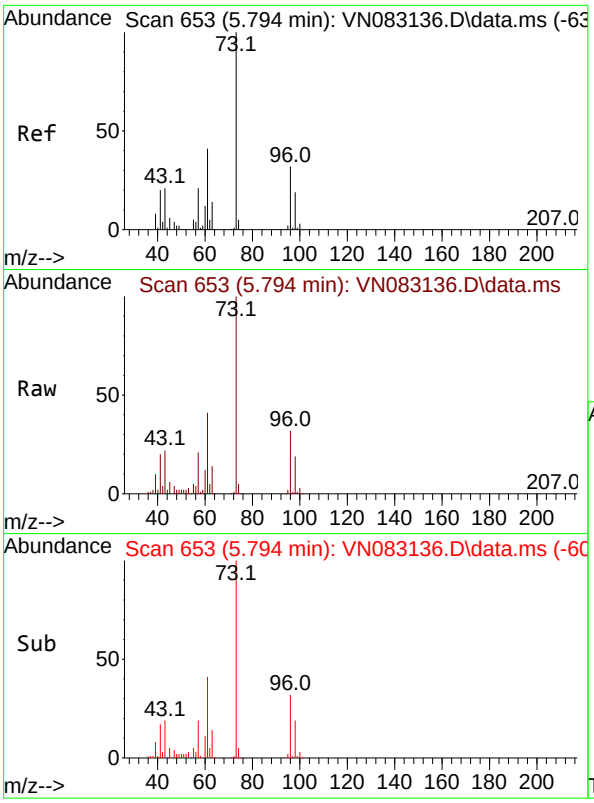


#18
Methyl Acetate
Concen: 46.765 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 43 Resp: 159022

Ion	Ratio	Lower	Upper
43	100		
74	24.3	16.3	24.5

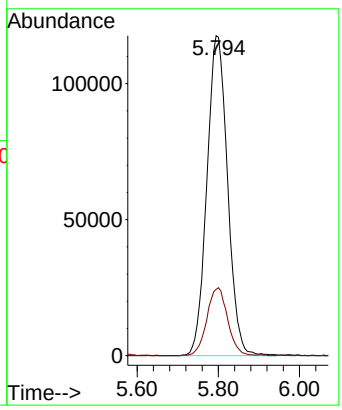




#19
Methyl tert-butyl Ether
Concen: 50.676 ug/l
RT: 5.794 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 73 Resp: 41548

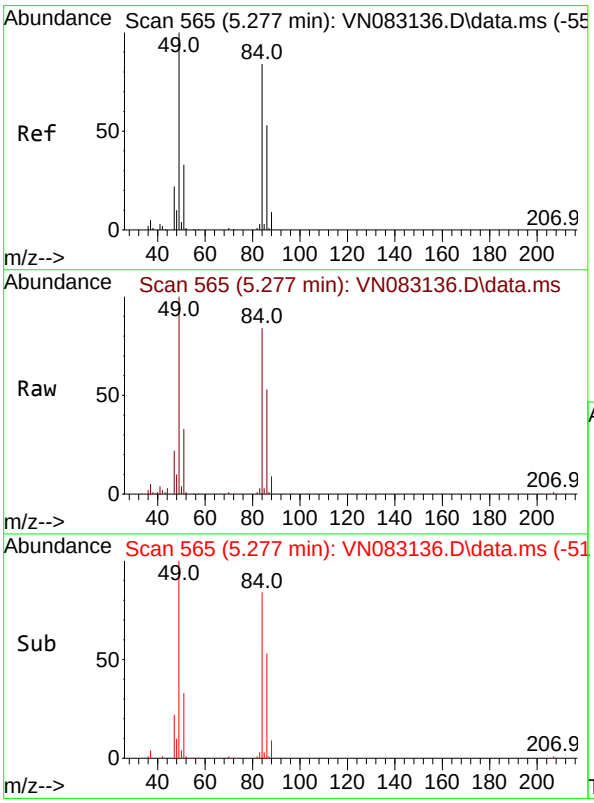
Ion	Ratio	Lower	Upper
73	100		
57	20.7	17.9	26.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

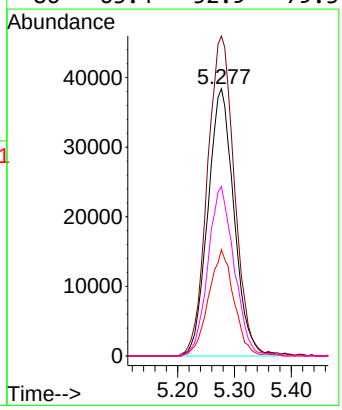
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

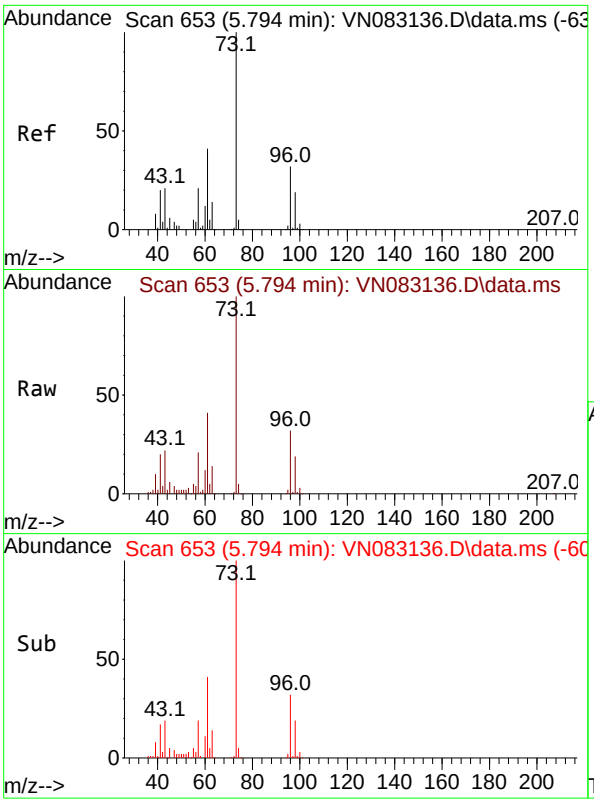


#20
Methylene Chloride
Concen: 46.744 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

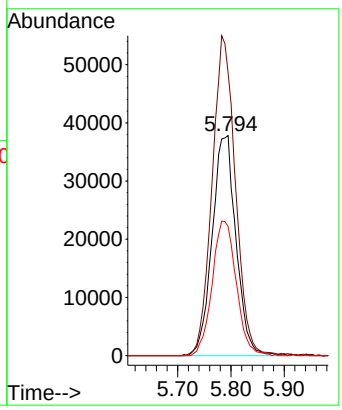




#21
trans-1,2-Dichloroethene
Concen: 50.127 ug/l
RT: 5.794 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 96 Resp: 11768

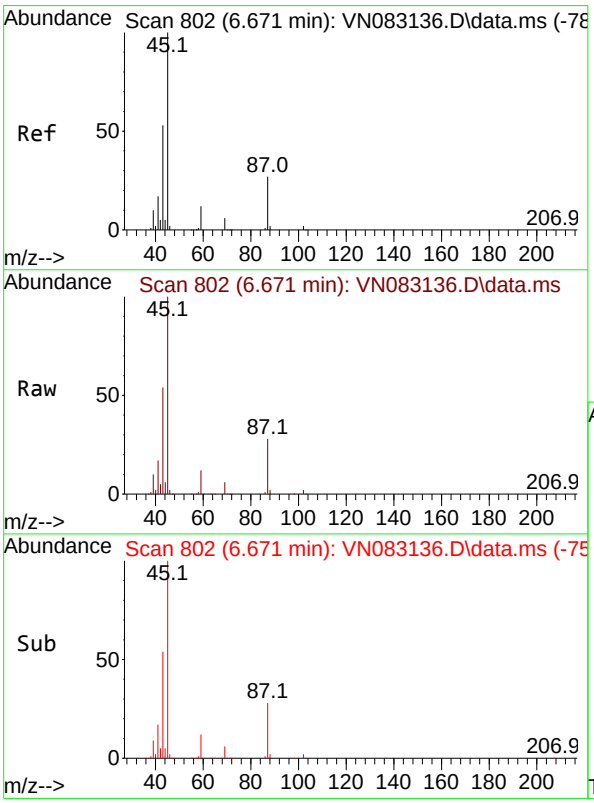
Ion	Ratio	Lower	Upper
96	100		
61	128.4	123.4	185.2
98	58.7	49.3	73.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

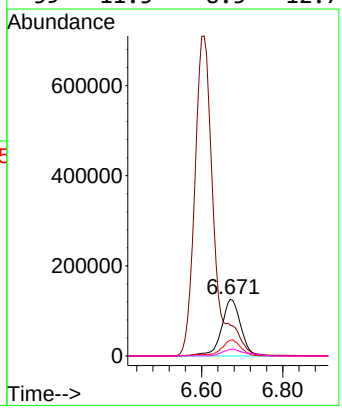
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

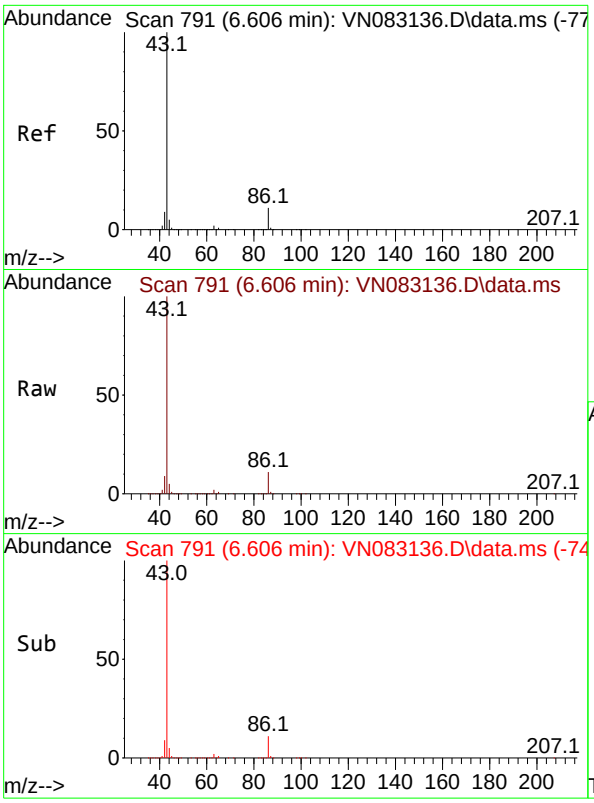


#22
Diisopropyl ether
Concen: 50.987 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

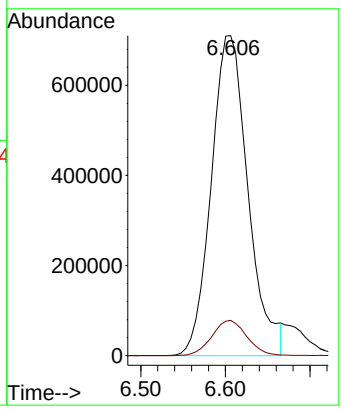




#23
Vinyl Acetate
Concen: 259.716 ug/l m
RT: 6.606 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 43 Resp: 214759

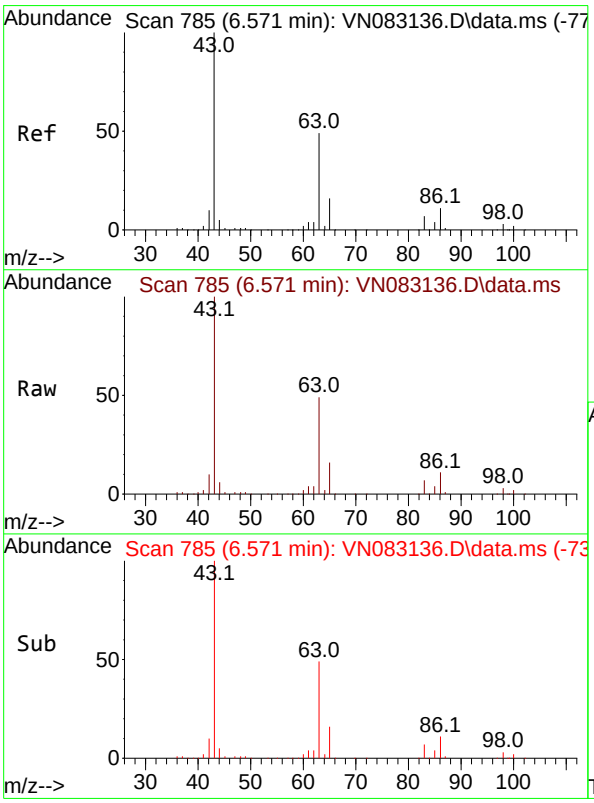
Ion	Ratio	Lower	Upper
43	100		
86	11.0	7.3	10.9#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

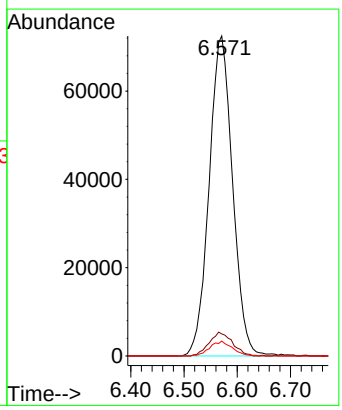
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

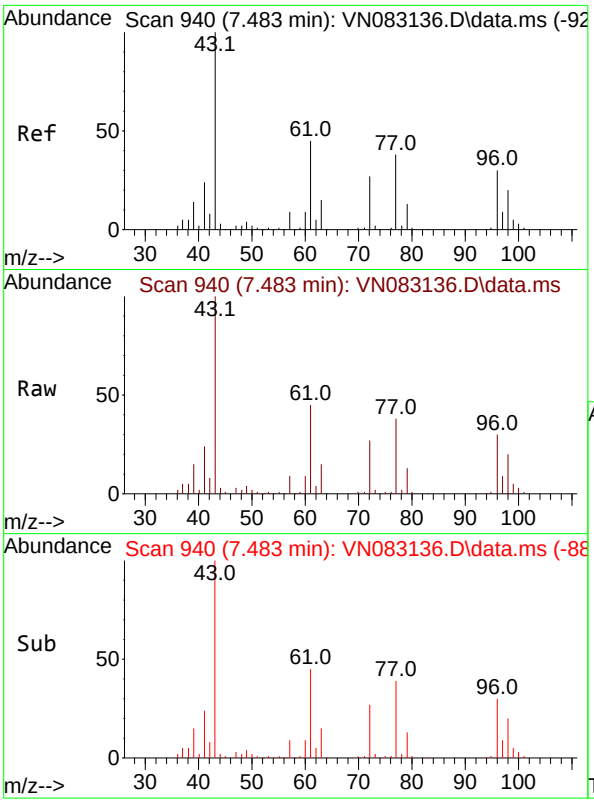


#24
1,1-Dichloroethane
Concen: 50.493 ug/l
RT: 6.571 min Scan# 785
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

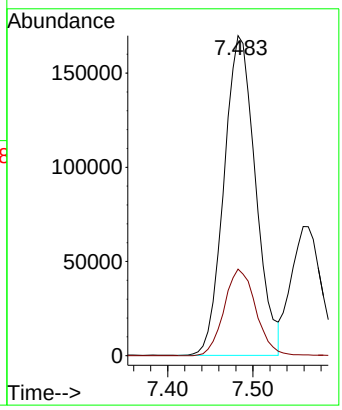




#25
2-Butanone
Concen: 249.591 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 43 Resp: 43739

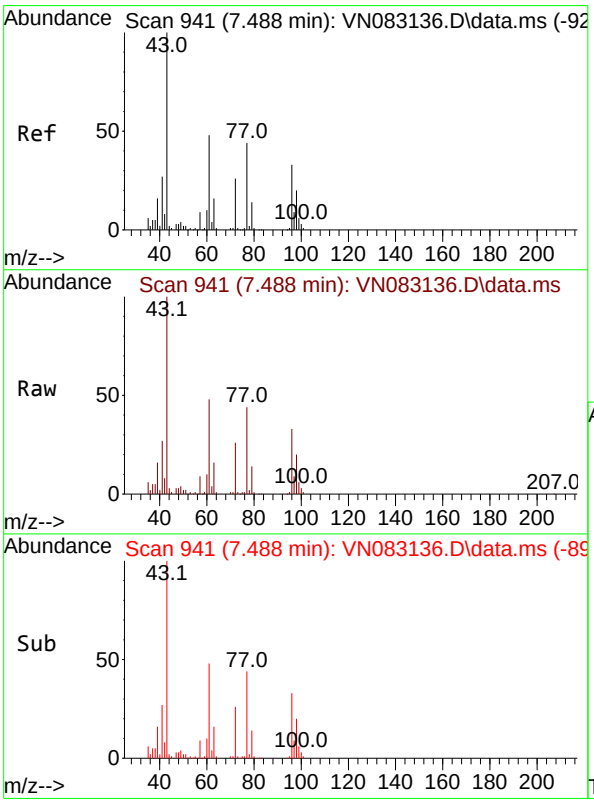
Ion	Ratio	Lower	Upper
43	100		
72	27.1	18.2	27.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

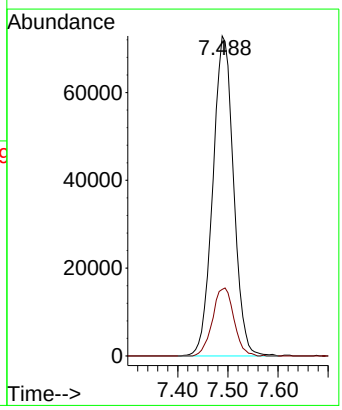
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

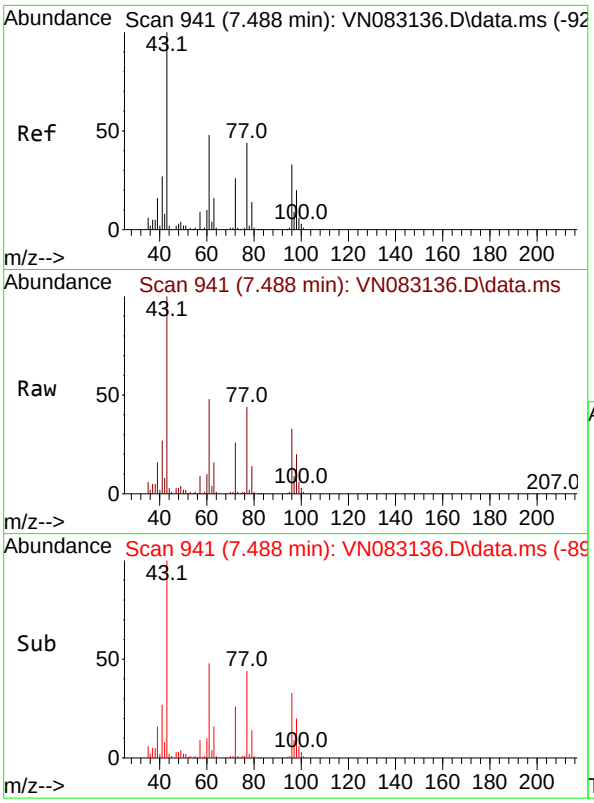


#26
2,2-Dichloropropane
Concen: 51.336 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 77 Resp: 209679

Ion	Ratio	Lower	Upper
77	100		
97	21.9	10.3	30.9

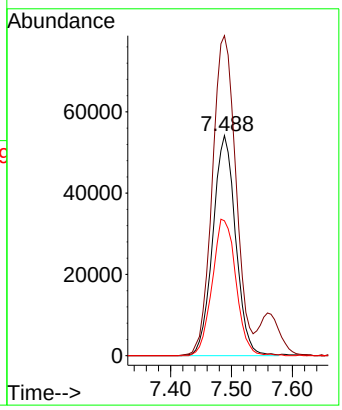




#27
cis-1,2-Dichloroethene
Concen: 49.809 ug/l
RT: 7.488 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 96 Resp: 14111

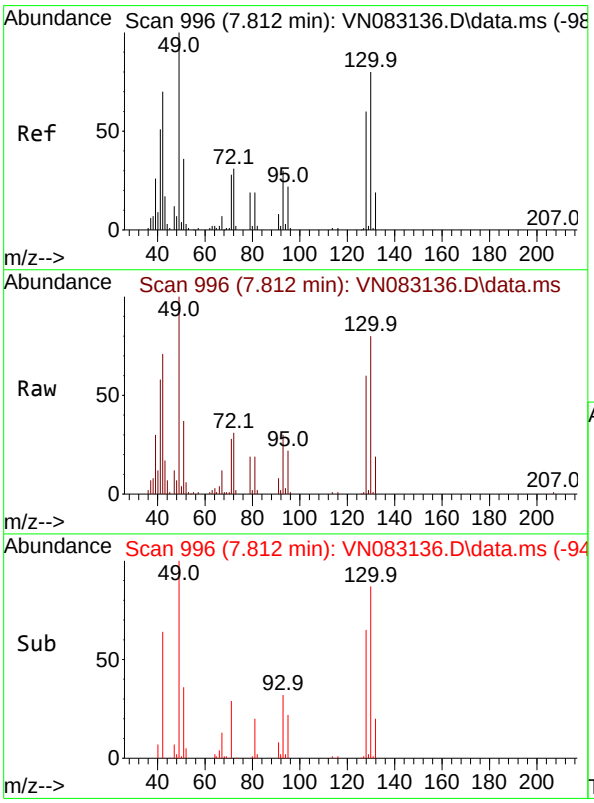
Ion	Ratio	Lower	Upper
96	100		
61	150.4	0.0	329.6
98	64.5	0.0	128.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

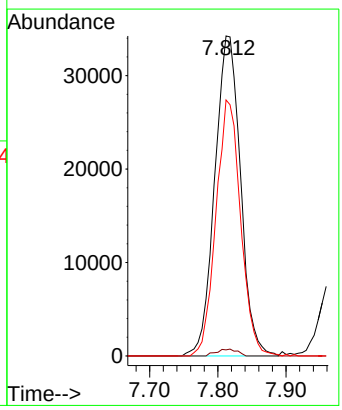
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

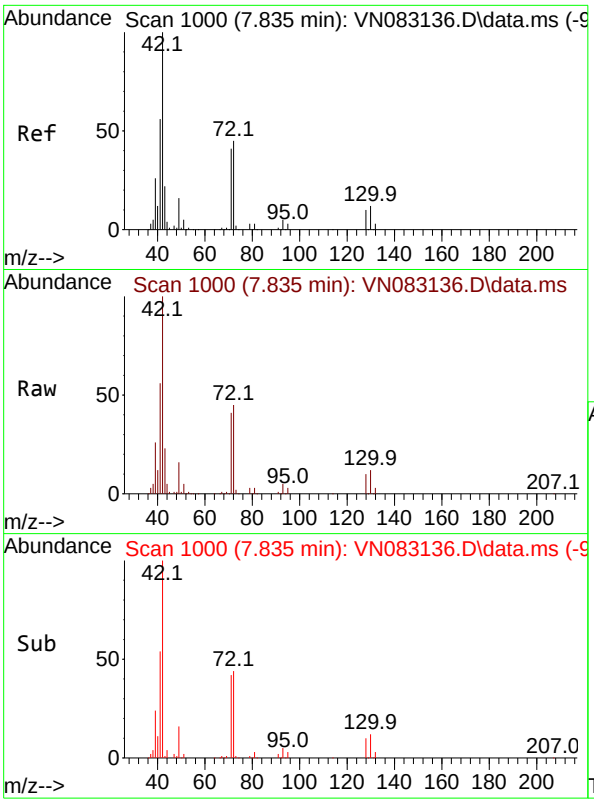


#28
Bromochloromethane
Concen: 50.041 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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#

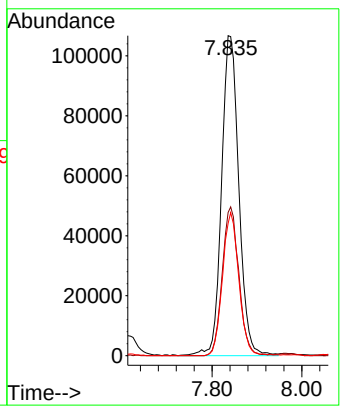




#29
Tetrahydrofuran
Concen: 252.334 ug/l
RT: 7.835 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 42 Resp: 28585

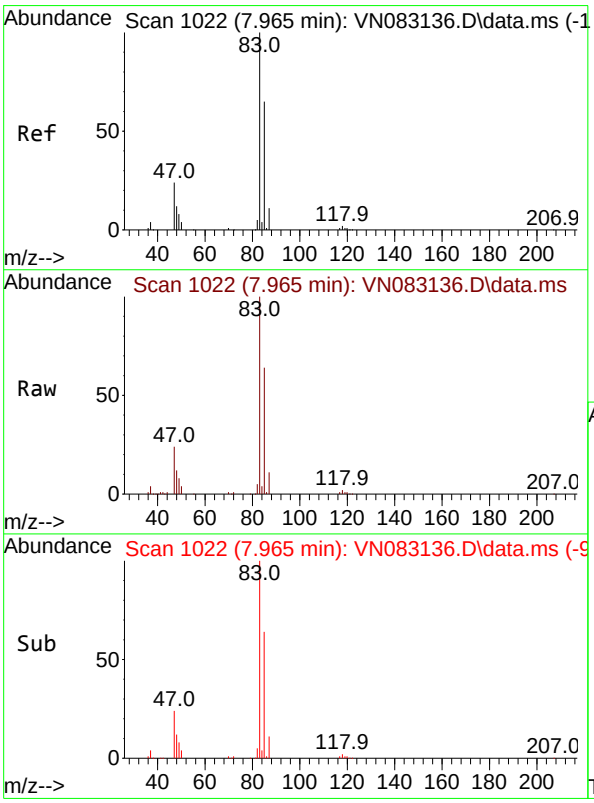
Ion	Ratio	Lower	Upper
42	100		
72	44.6	30.0	45.0
71	42.4	28.3	42.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

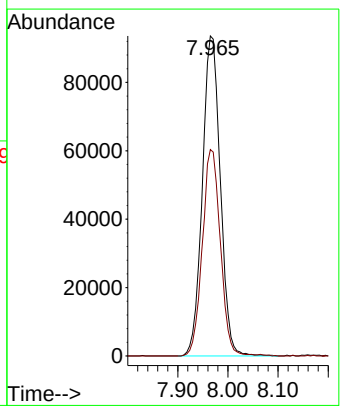
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

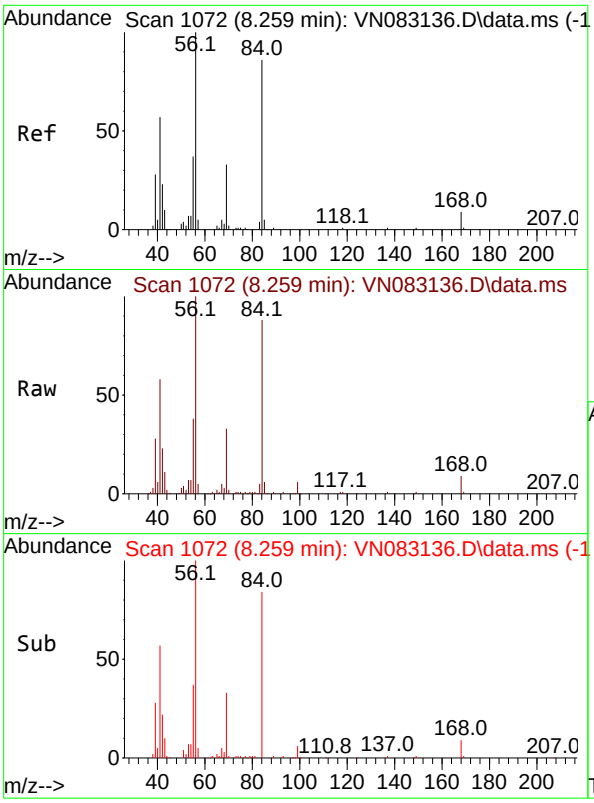


#30
Chloroform
Concen: 50.978 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 83 Resp: 232933

Ion	Ratio	Lower	Upper
83	100		
85	64.5	50.9	76.3

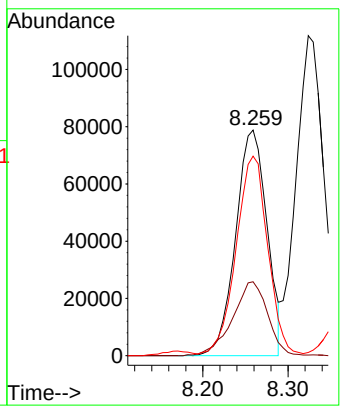




#31
Cyclohexane
Concen: 46.565 ug/l
RT: 8.259 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 56 Resp: 20127

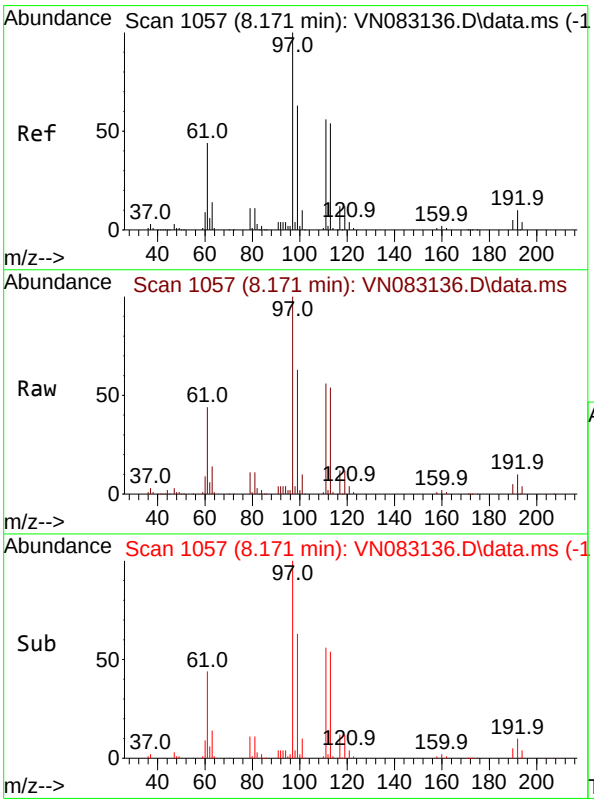
Ion	Ratio	Lower	Upper
56	100		
69	32.7	24.5	36.7
84	86.4	66.0	99.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

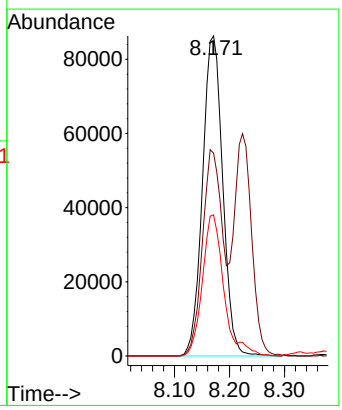
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

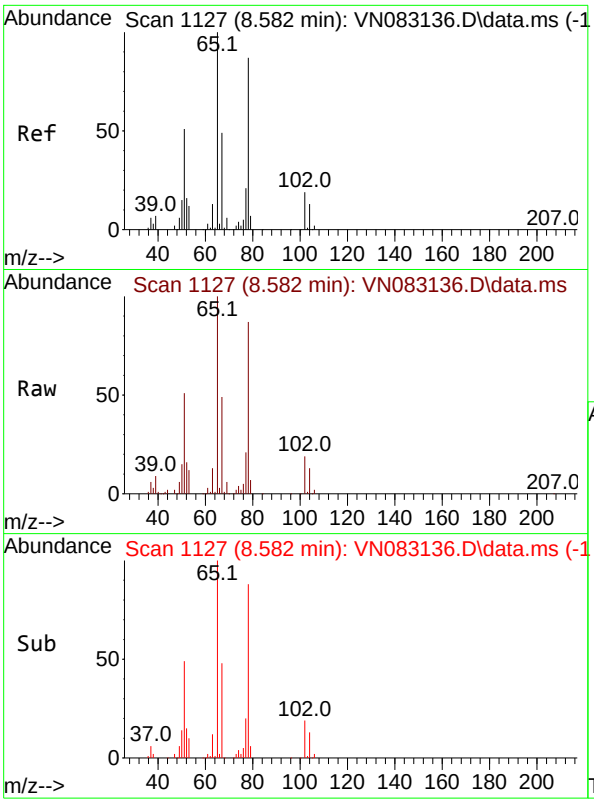


#32
1,1,1-Trichloroethane
Concen: 50.935 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

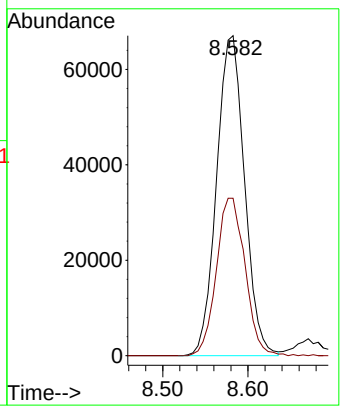
Tgt Ion: 65 Resp: 15268

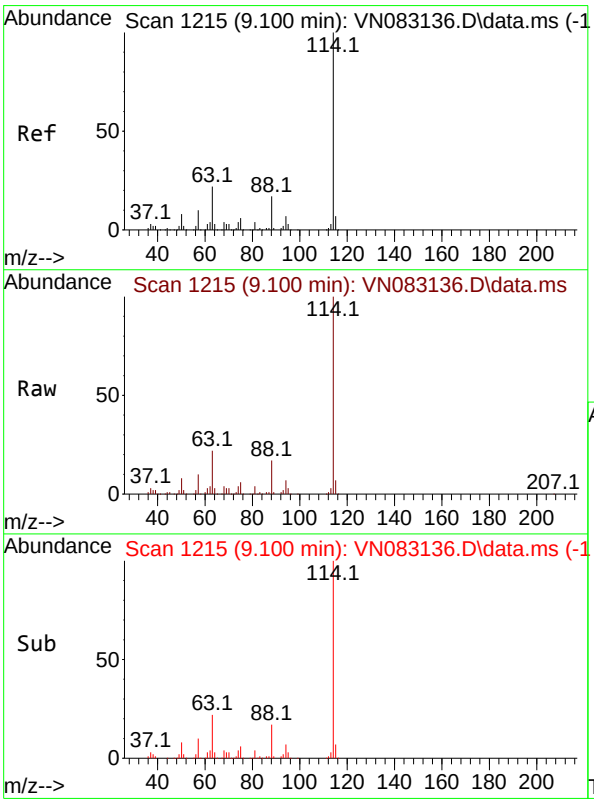
Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	104.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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

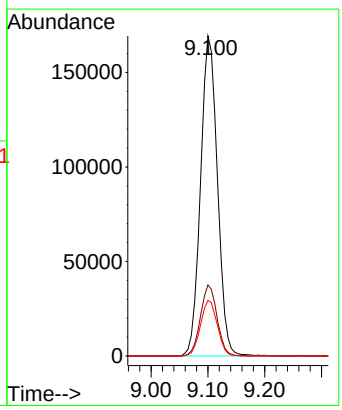


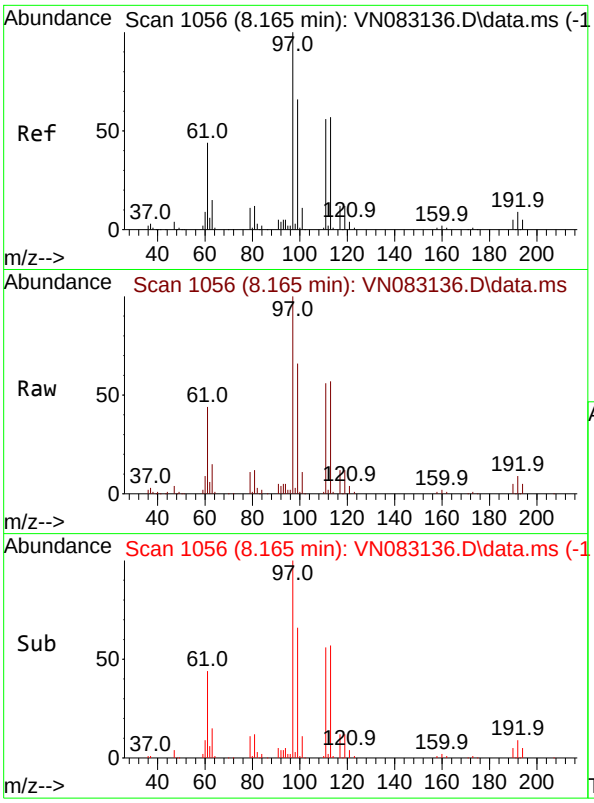


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

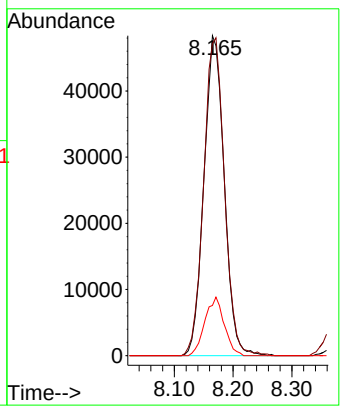




#35
Dibromofluoromethane
Concen: 53.216 ug/l
RT: 8.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:113 Resp: 11586

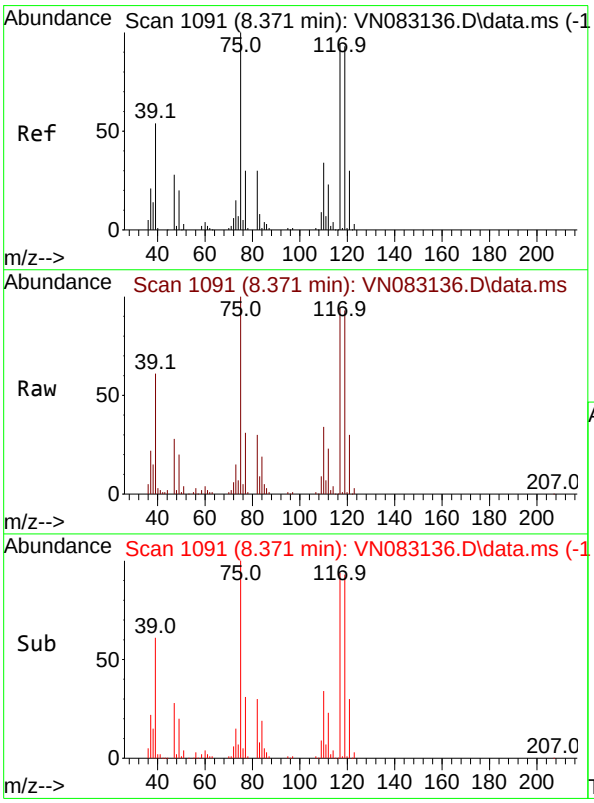
Ion	Ratio	Lower	Upper
113	100		
111	101.9	82.4	123.6
192	17.5	14.9	22.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

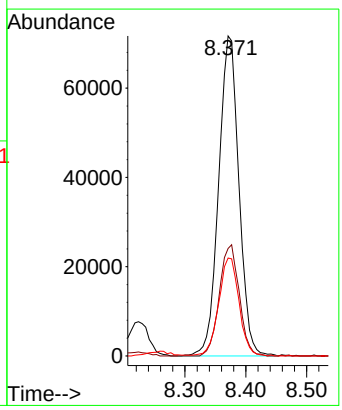
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

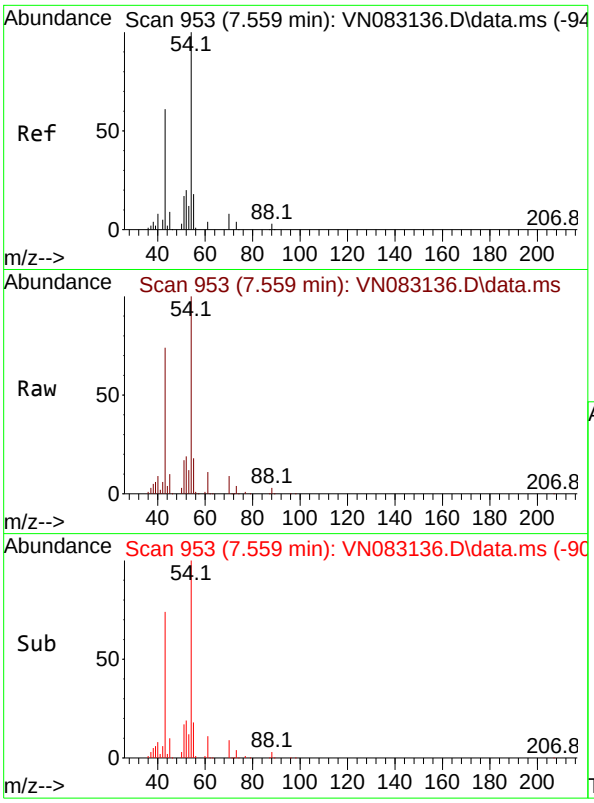


#36
1,1-Dichloropropene
Concen: 50.349 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

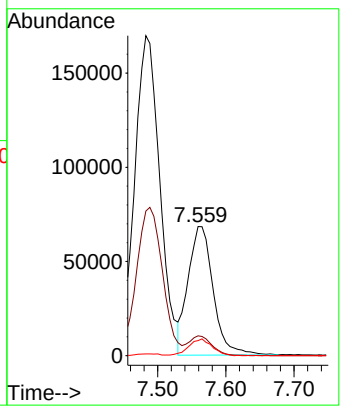
Tgt Ion: 43 Resp: 17410

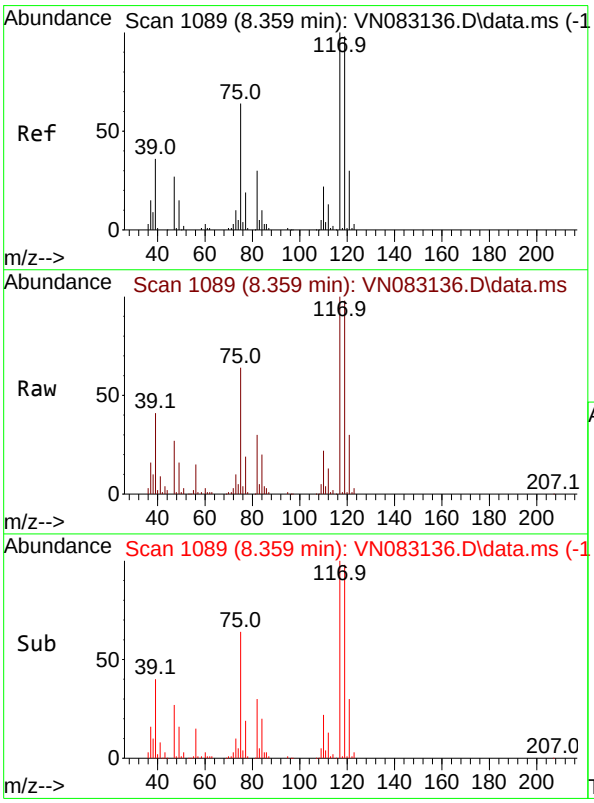
Ion	Ratio	Lower	Upper
43	100		
61	14.4	9.3	13.9#
70	12.1	7.0	10.6#

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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

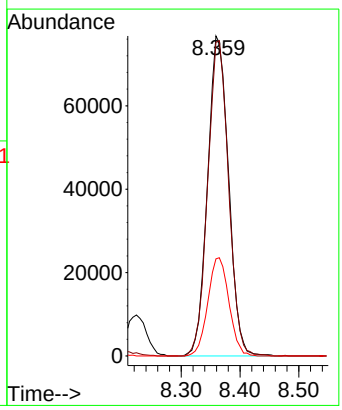


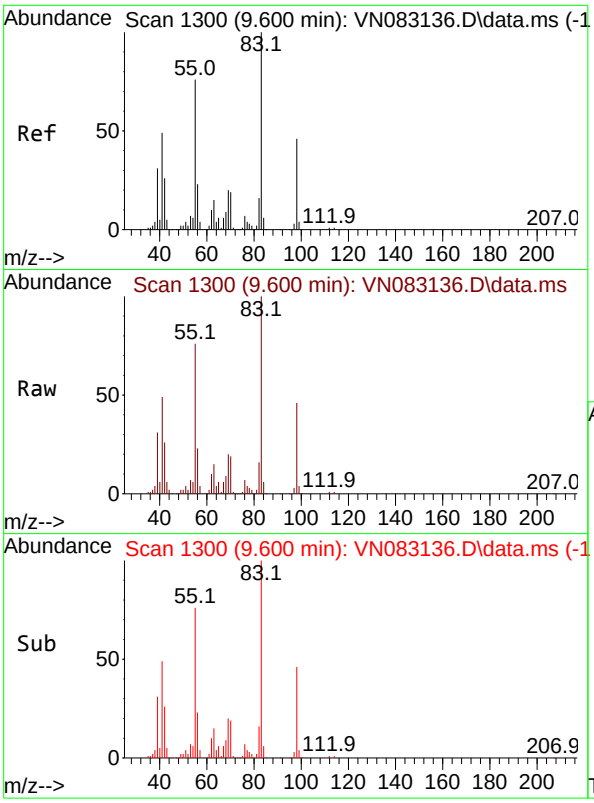


#38
Carbon Tetrachloride
Concen: 51.315 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

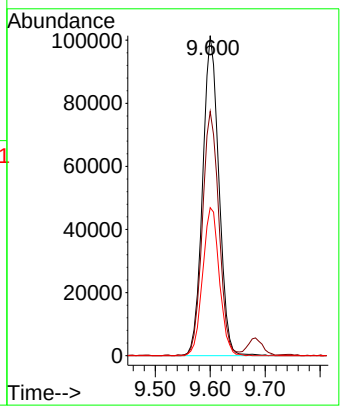




#39
Methylcyclohexane
Concen: 51.461 ug/l
RT: 9.600 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 83 Resp: 20817

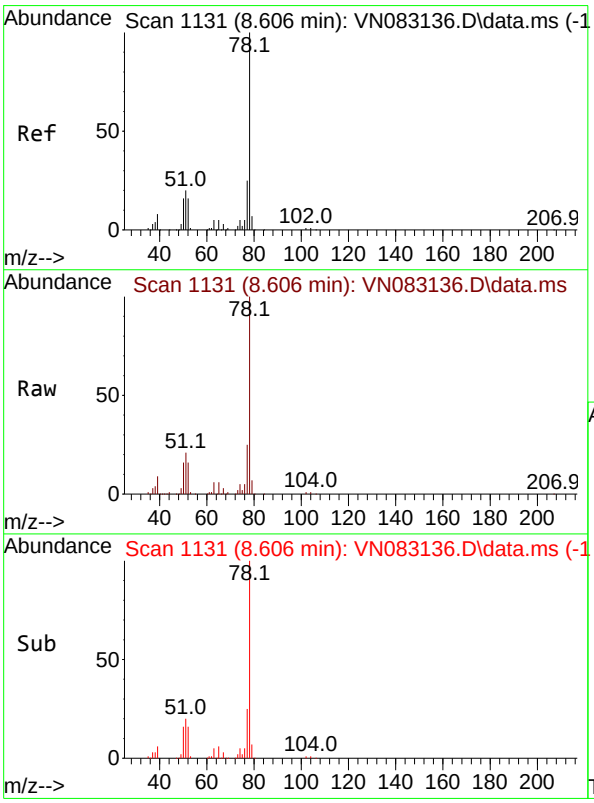
Ion	Ratio	Lower	Upper
83	100		
55	76.0	66.4	99.6
98	46.3	40.7	61.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

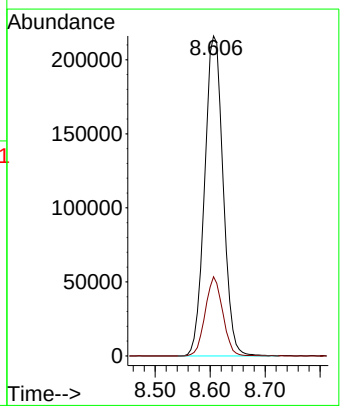
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

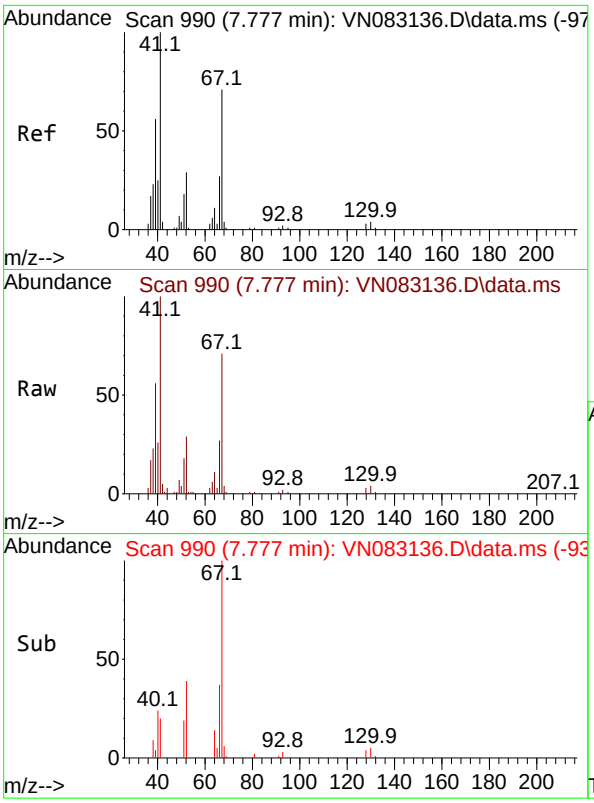


#40
Benzene
Concen: 51.436 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 78 Resp: 504662

Ion	Ratio	Lower	Upper
78	100		
77	24.8	19.0	28.4

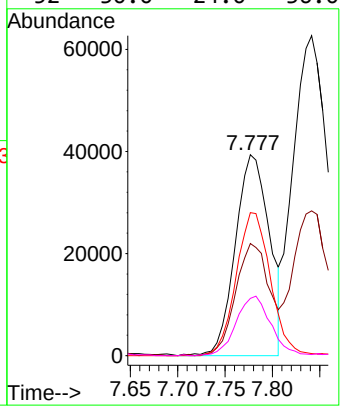




#41
Methacrylonitrile
Concen: 47.154 ug/l
RT: 7.777 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 41 Resp: 9886

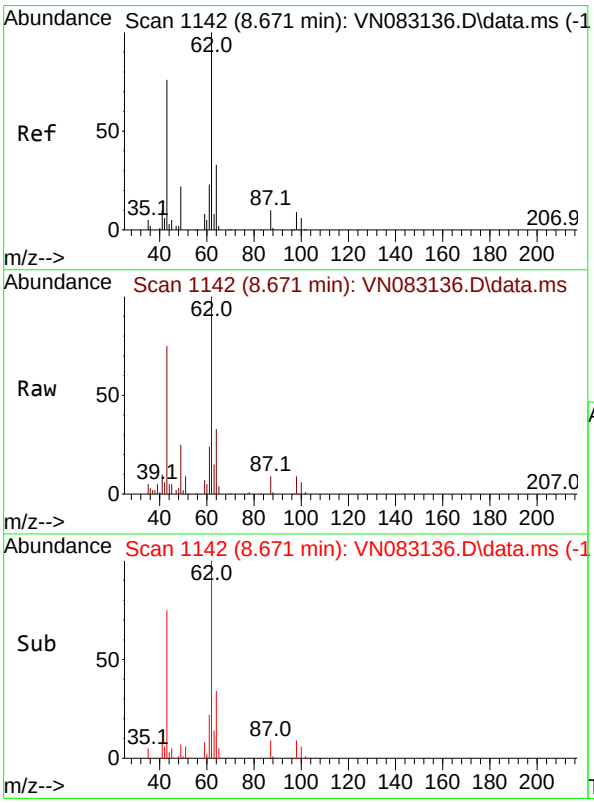
Ion	Ratio	Lower	Upper
41	100		
39	55.4	45.5	68.3
67	72.0	50.5	75.7
52	30.0	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

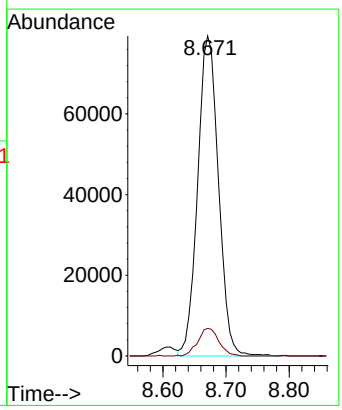
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

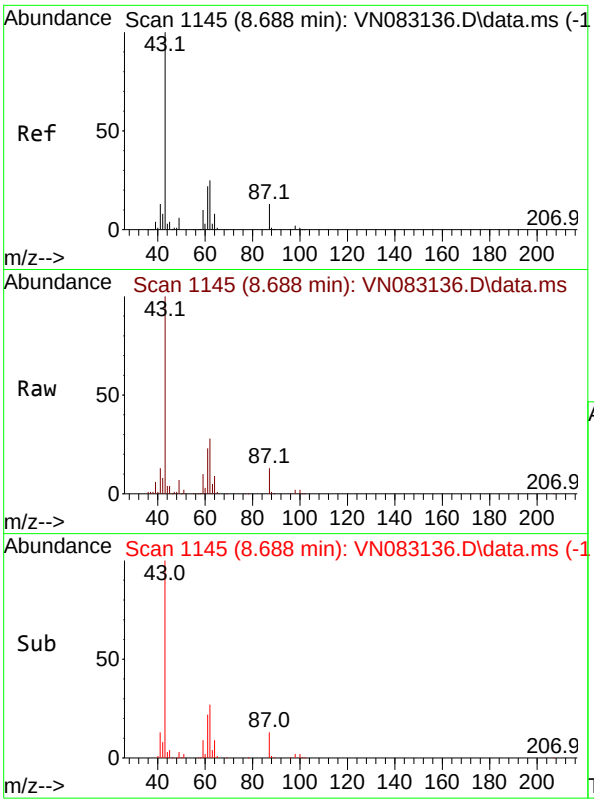


#42
1,2-Dichloroethane
Concen: 50.765 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

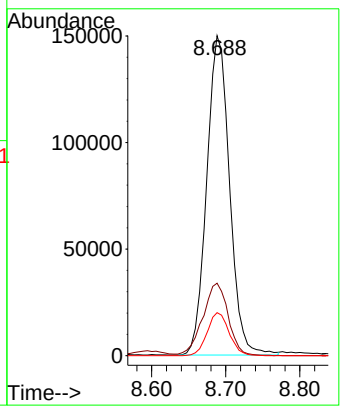
Tgt Ion: 43 Resp: 32108

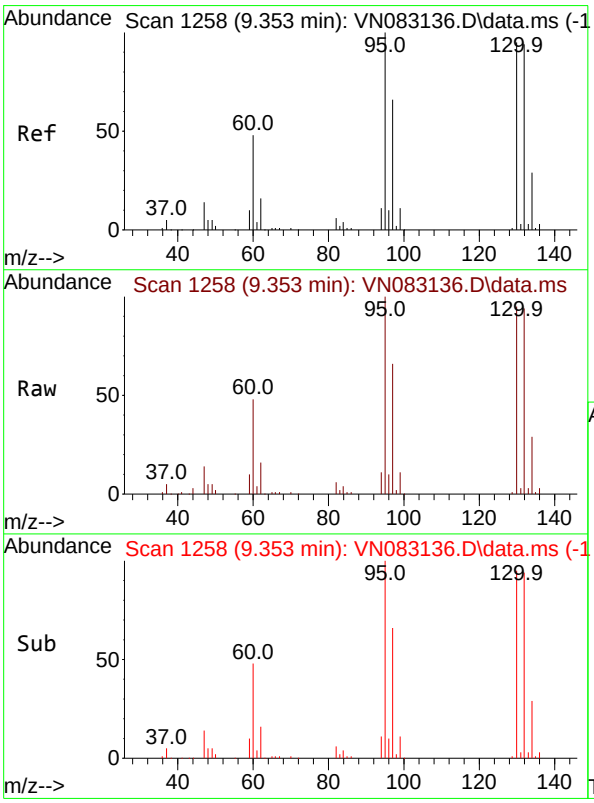
Ion	Ratio	Lower	Upper
43	100		
61	25.3	17.8	26.6
87	13.0	8.2	12.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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

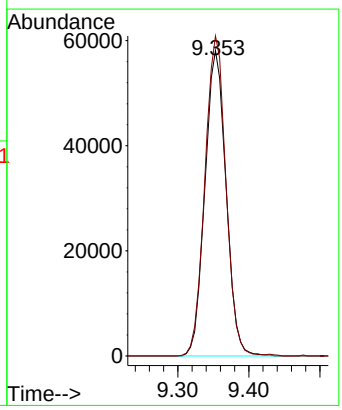


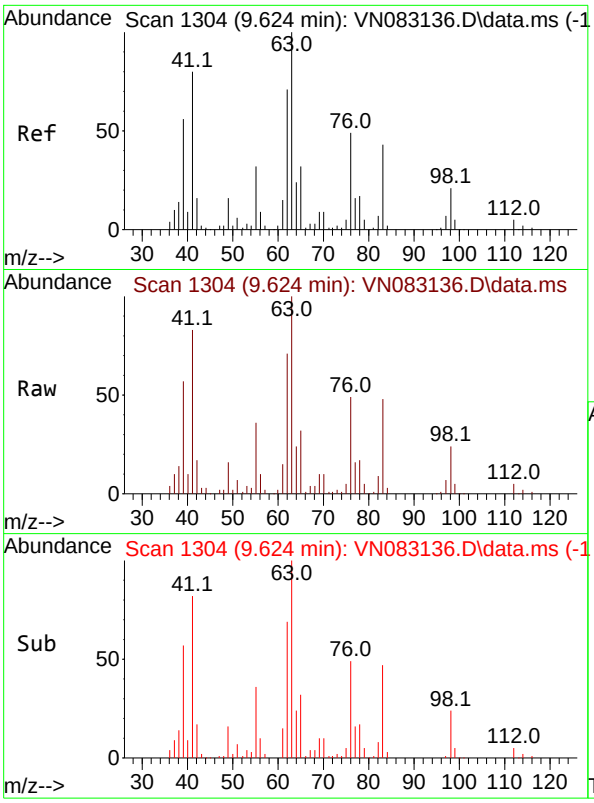


#44
Trichloroethene
Concen: 51.383 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:130 Resp: 119998

Ion	Ratio	Lower	Upper
130	100		
95	104.7	0.0	197.8

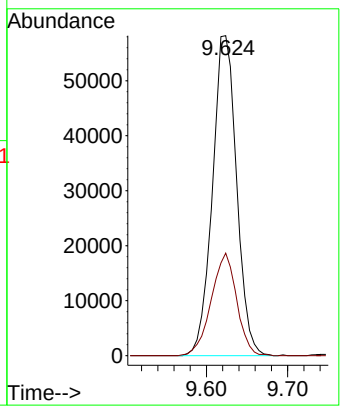




#45
1,2-Dichloropropane
Concen: 51.747 ug/l
RT: 9.624 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 63 Resp: 12051

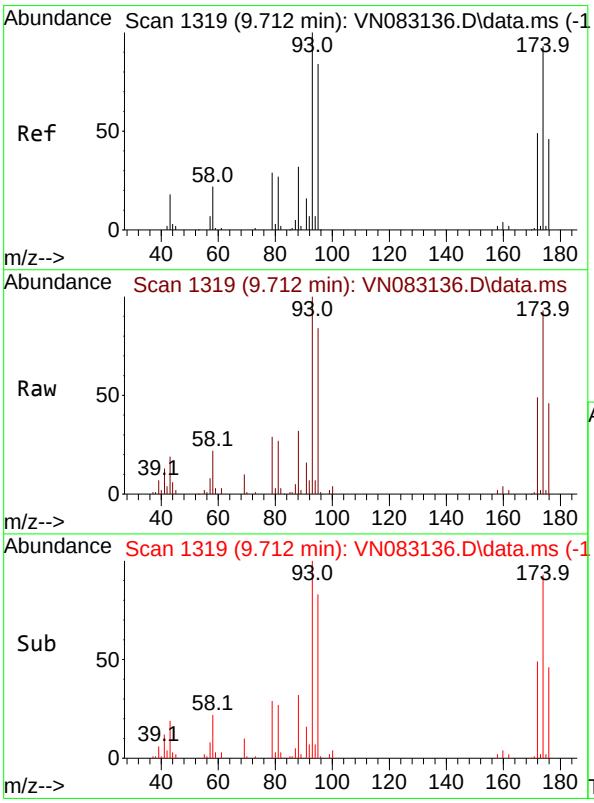
Ion	Ratio	Lower	Upper
63	100		
65	32.1	24.4	36.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

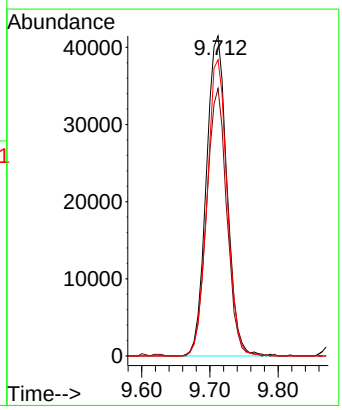
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

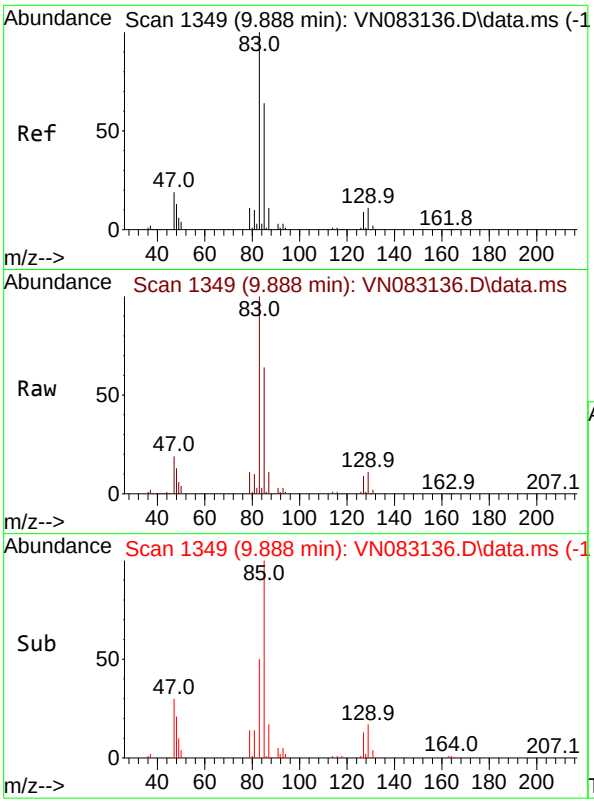


#46
Dibromomethane
Concen: 52.436 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

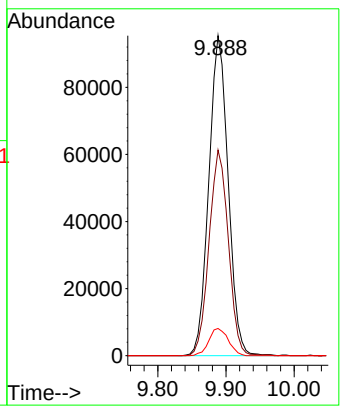




#47
Bromodichloromethane
Concen: 50.245 ug/l
RT: 9.888 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 83 Resp: 18806

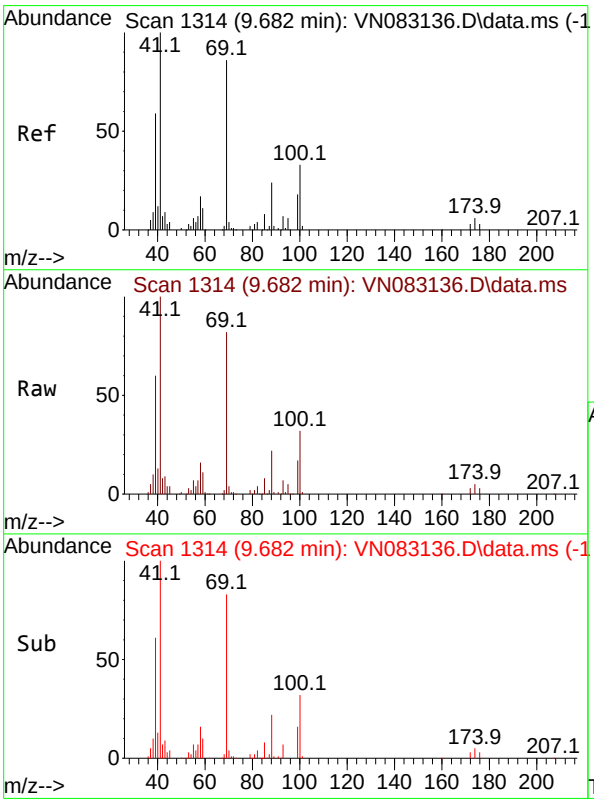
Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.1	76.7
127	8.5	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

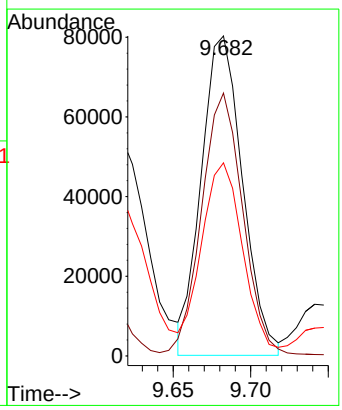
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

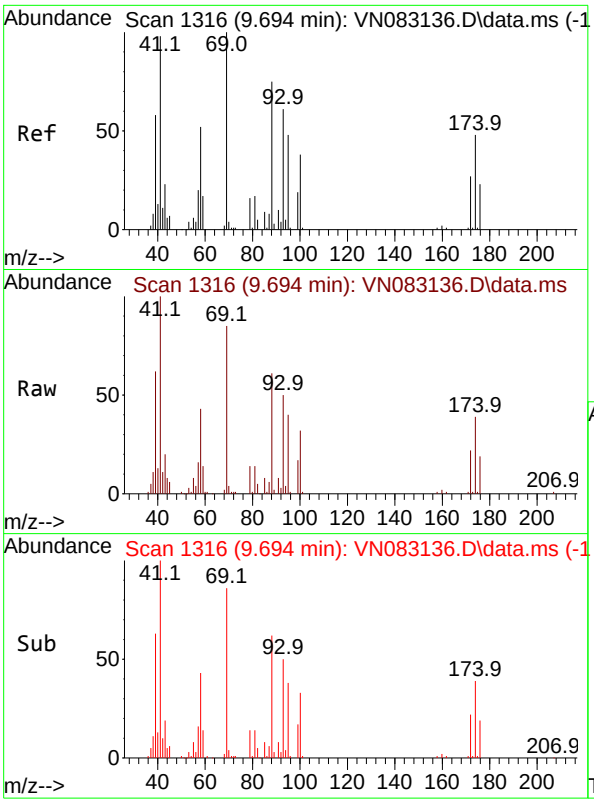


#48
Methyl methacrylate
Concen: 48.631 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

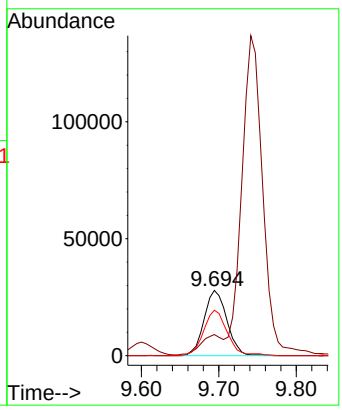
Tgt Ion: 88 Resp: 5703

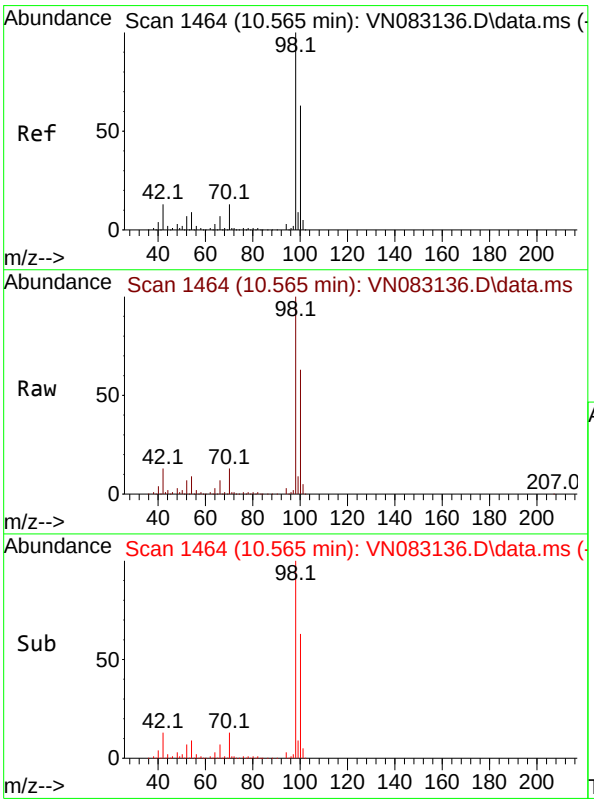
Ion	Ratio	Lower	Upper
88	100		
43	29.1	27.8	41.8
58	72.4	59.4	89.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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

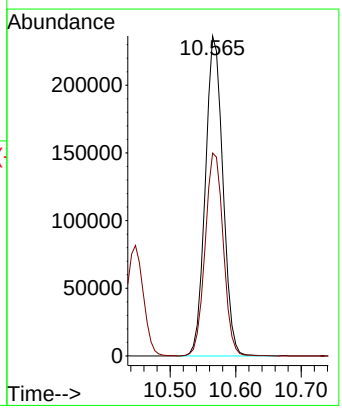


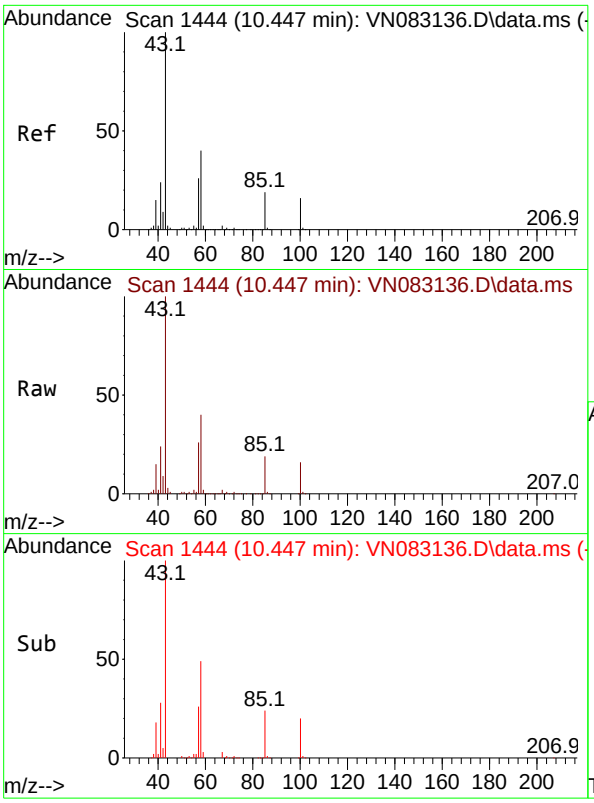


#50
Toluene-d8
Concen: 54.174 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

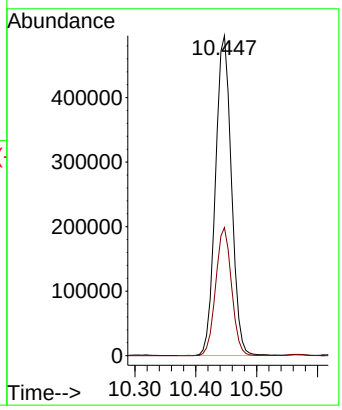
Tgt Ion: 43 Resp: 90141

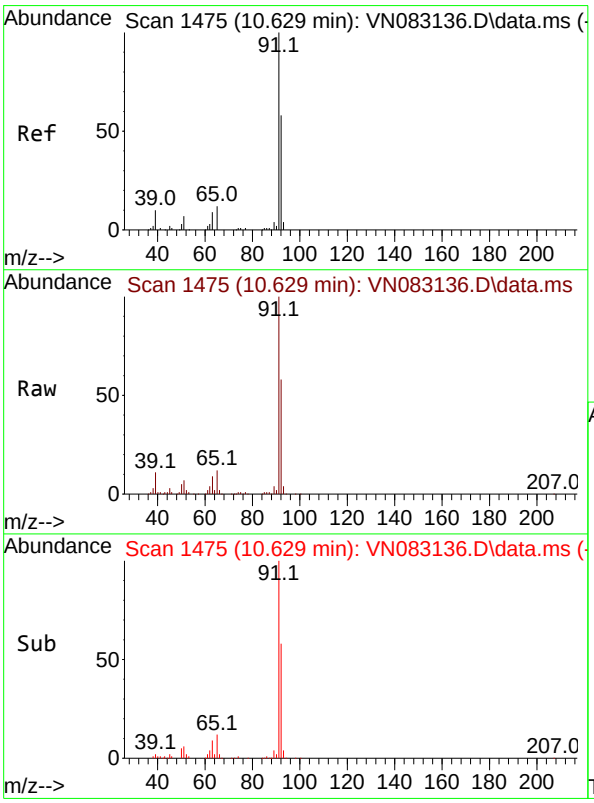
Ion	Ratio	Lower	Upper
43	100		
58	39.8	28.2	42.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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

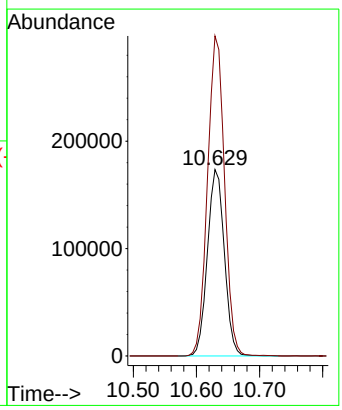


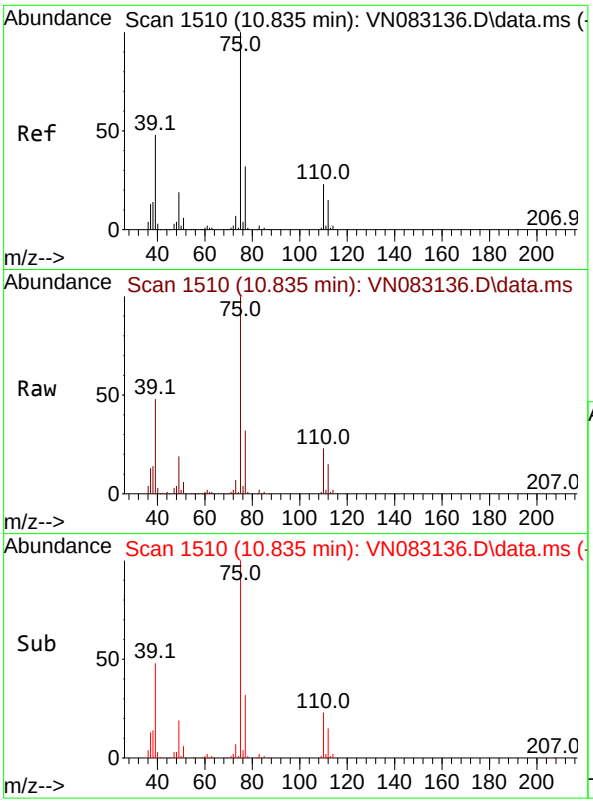


#52
Toluene
Concen: 52.127 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 92 Resp: 323148

Ion	Ratio	Lower	Upper
92	100		
91	172.1	139.4	209.0

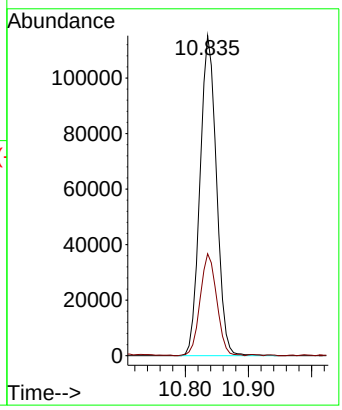




#53
t-1,3-Dichloropropene
Concen: 54.205 ug/l
RT: 10.835 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 75 Resp: 20841

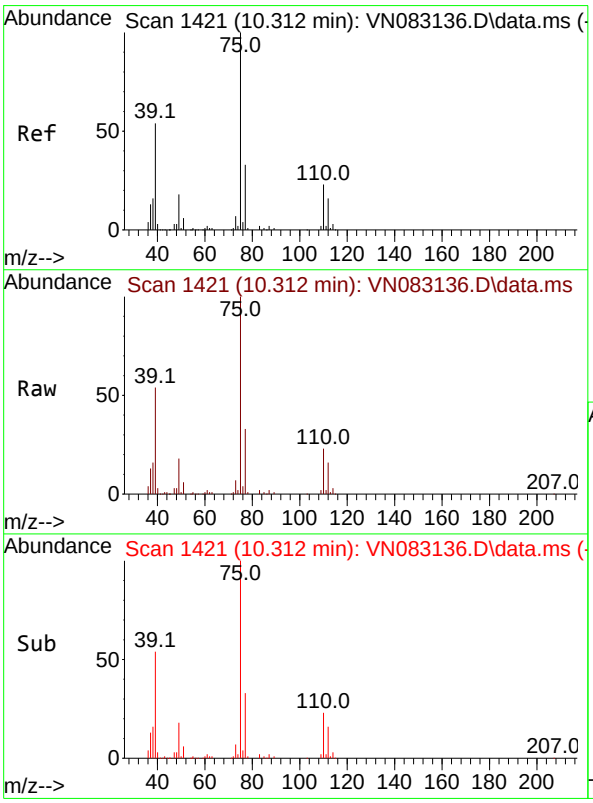
Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

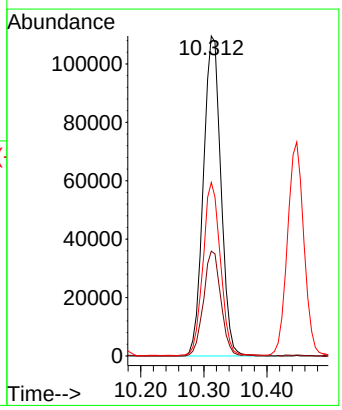
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

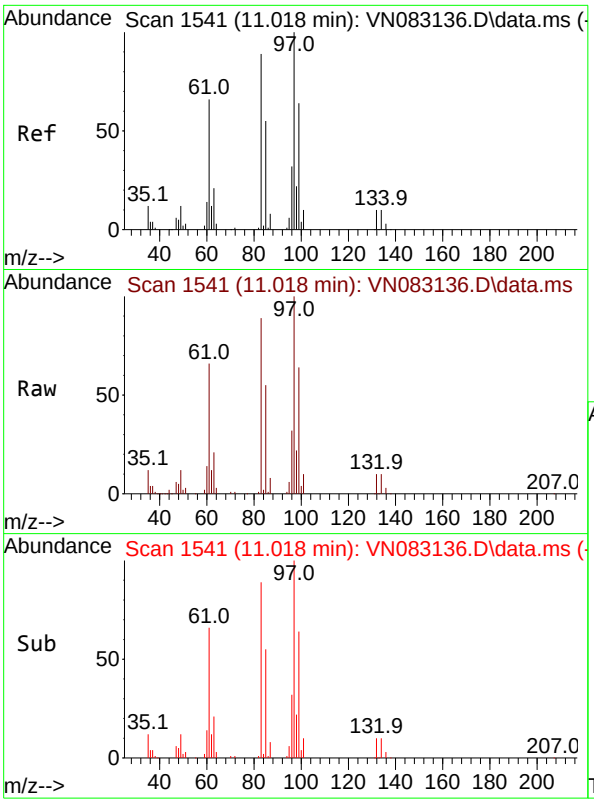


#54
cis-1,3-Dichloropropene
Concen: 51.692 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

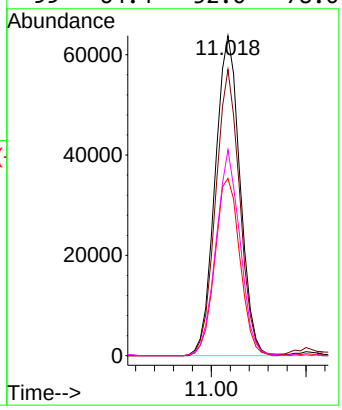




#55
1,1,2-Trichloroethane
Concen: 52.387 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 97 Resp: 11638

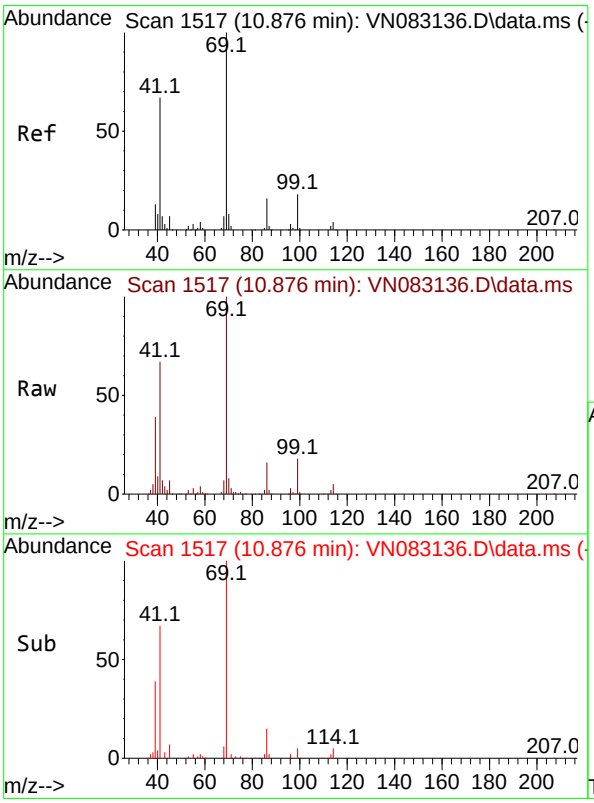
Ion	Ratio	Lower	Upper
97	100		
83	89.4	71.4	107.0
85	55.4	45.8	68.6
99	64.4	52.0	78.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

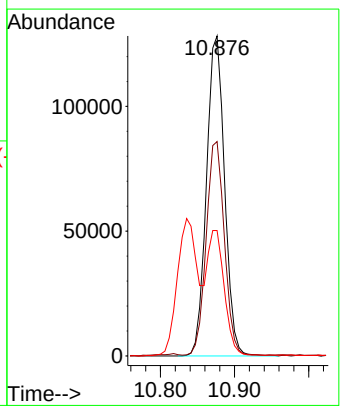
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

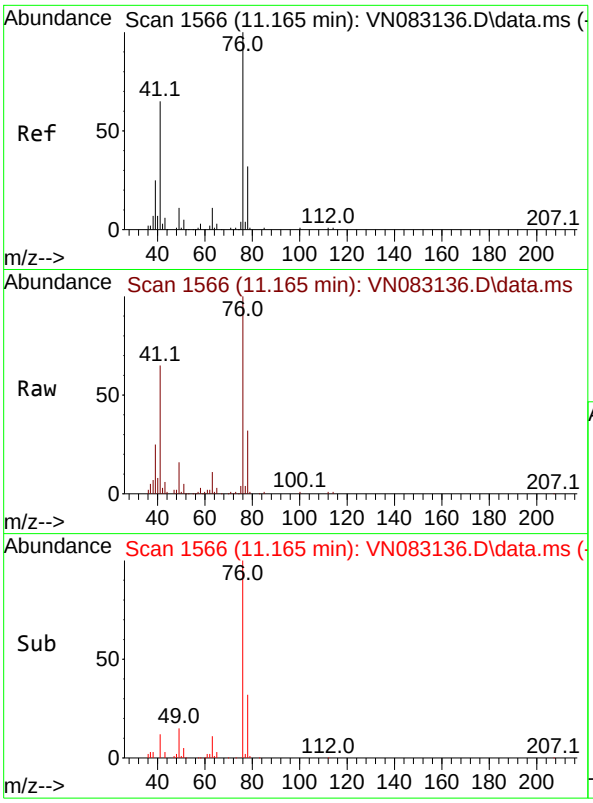


#56
Ethyl methacrylate
Concen: 51.964 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

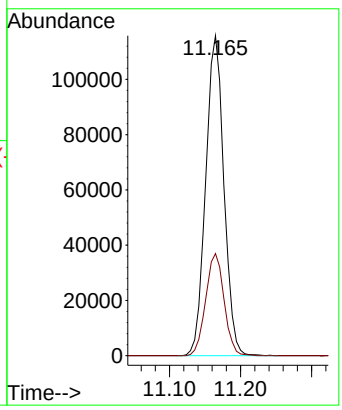
Tgt Ion: 76 Resp: 20644

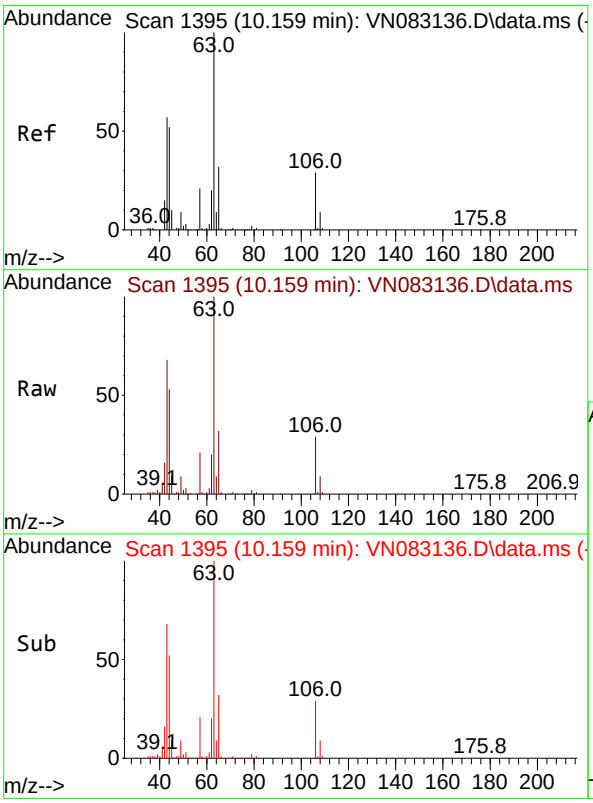
Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.6	38.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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

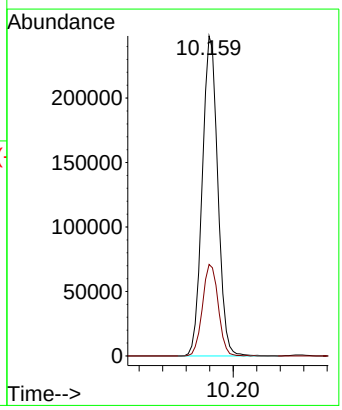


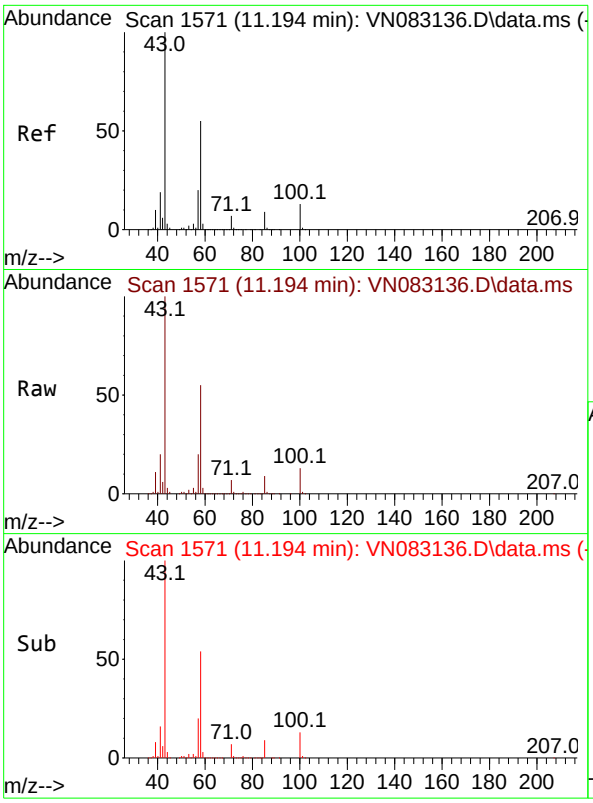


#58
2-Chloroethyl Vinyl ether
Concen: 256.939 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

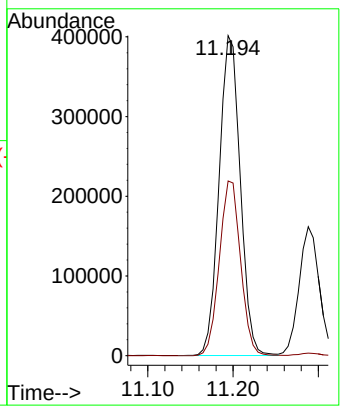
Tgt Ion: 43 Resp: 69170

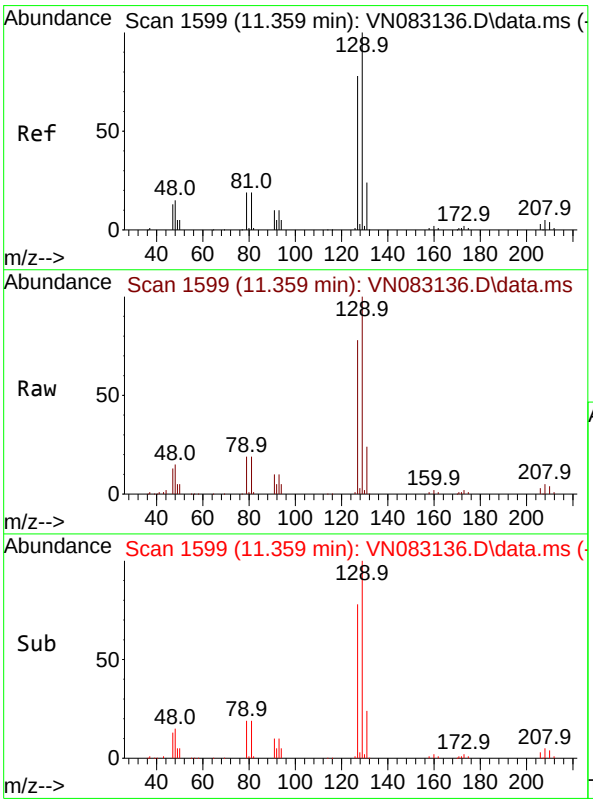
Ion	Ratio	Lower	Upper
43	100		
58	54.9	24.6	73.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

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

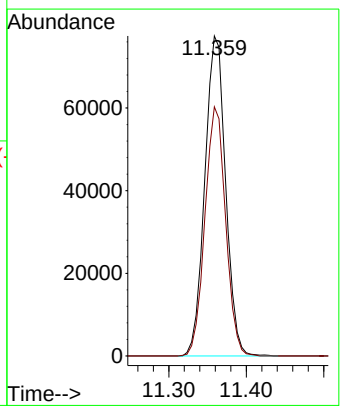


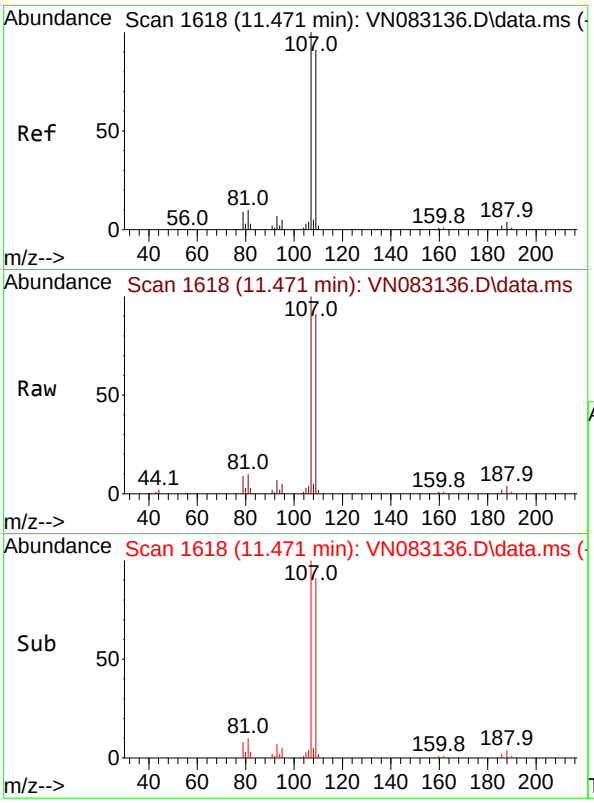


#60
Dibromochloromethane
Concen: 53.688 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

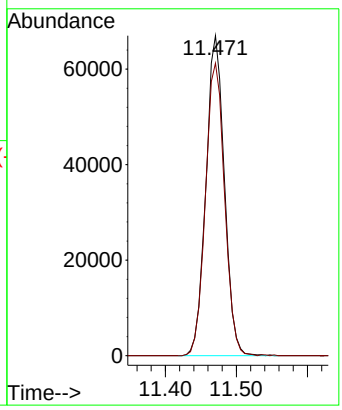
Tgt Ion:107 Resp: 12115

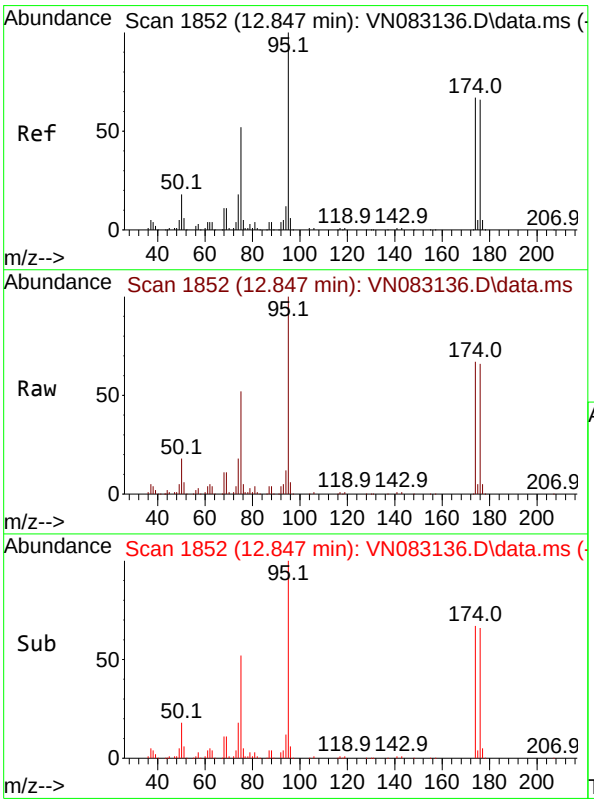
Ion	Ratio	Lower	Upper
107	100		
109	94.4	73.7	110.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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

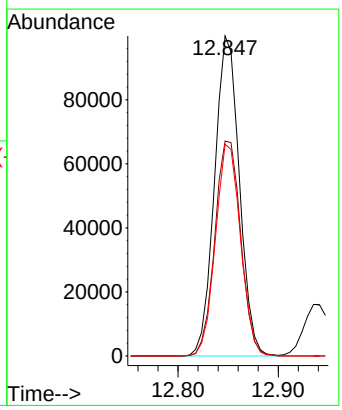


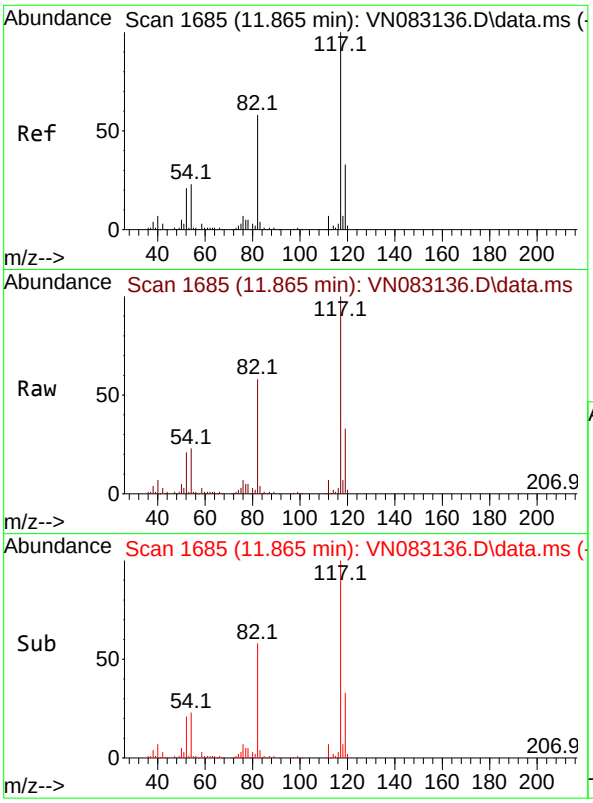


#62
4-Bromofluorobenzene
Concen: 54.173 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

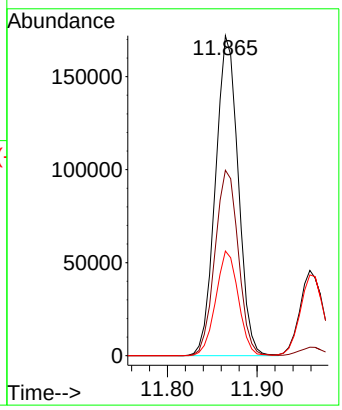




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:117 Resp: 30311

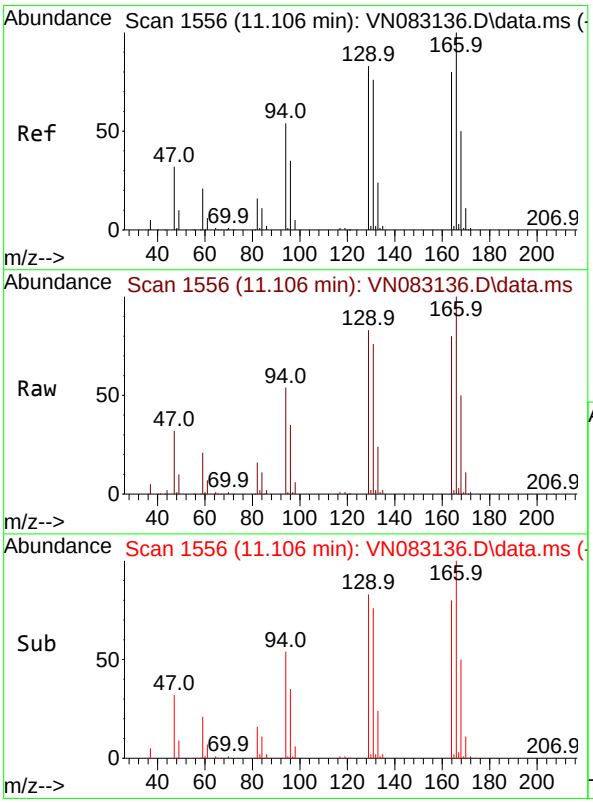
Ion	Ratio	Lower	Upper
117	100		
82	57.9	47.5	71.3
119	32.7	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

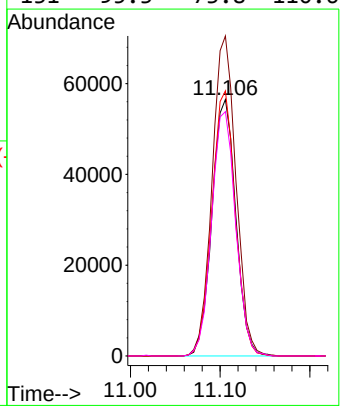
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

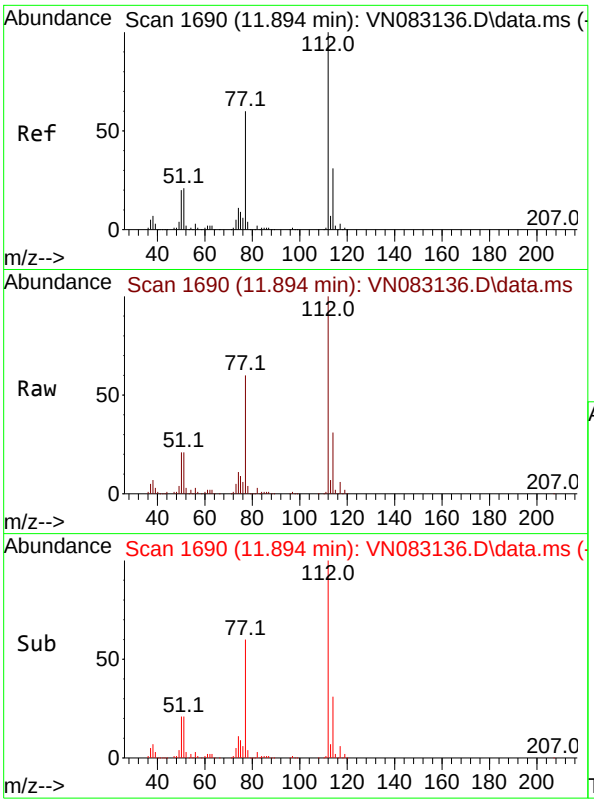


#64
Tetrachloroethene
Concen: 51.784 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

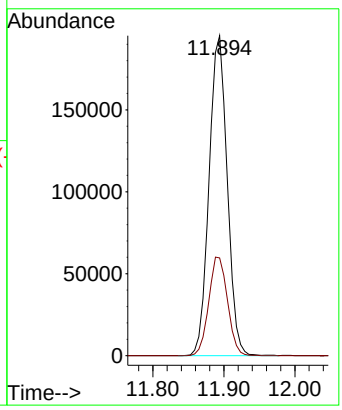




#65
Chlorobenzene
Concen: 51.679 ug/l
RT: 11.894 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:112 Resp: 34617

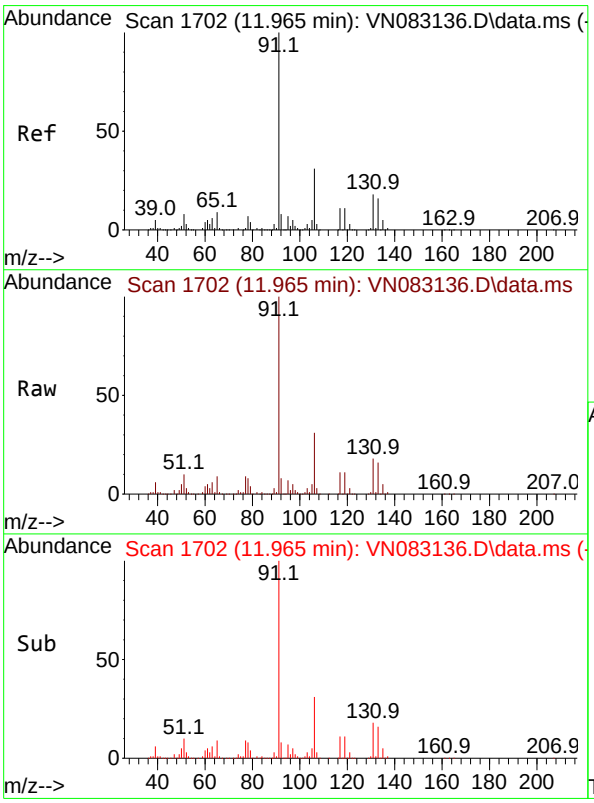
Ion	Ratio	Lower	Upper
112	100		
114	30.6	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

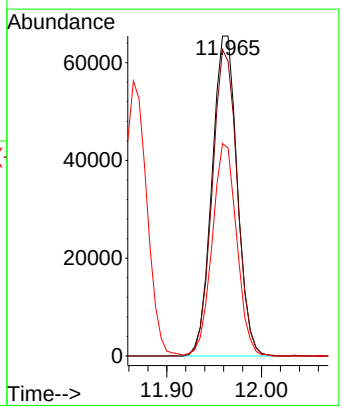
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

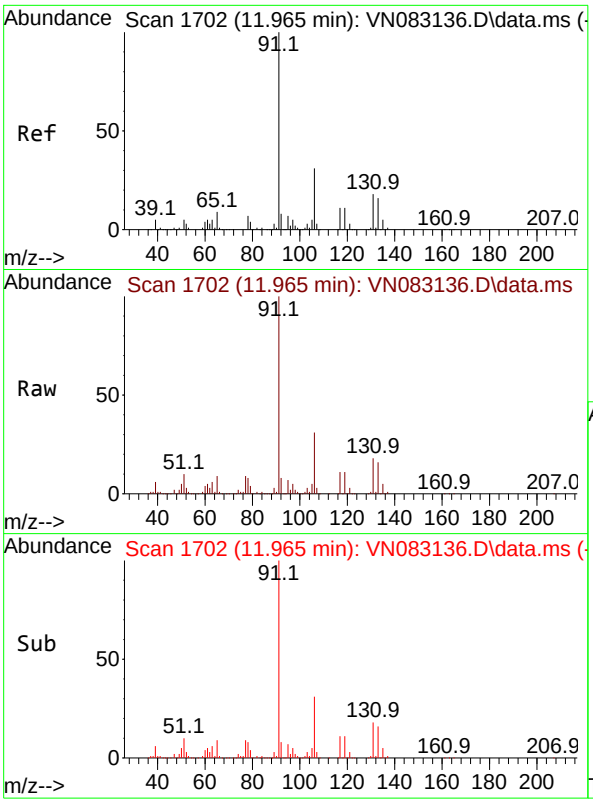


#66
1,1,1,2-Tetrachloroethane
Concen: 51.242 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

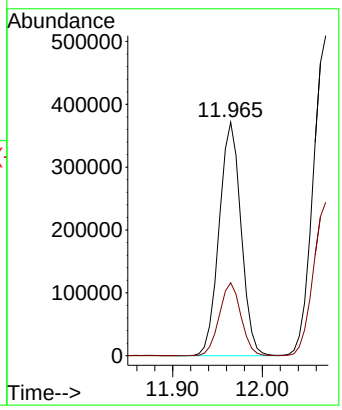
Tgt Ion: 91 Resp: 62890

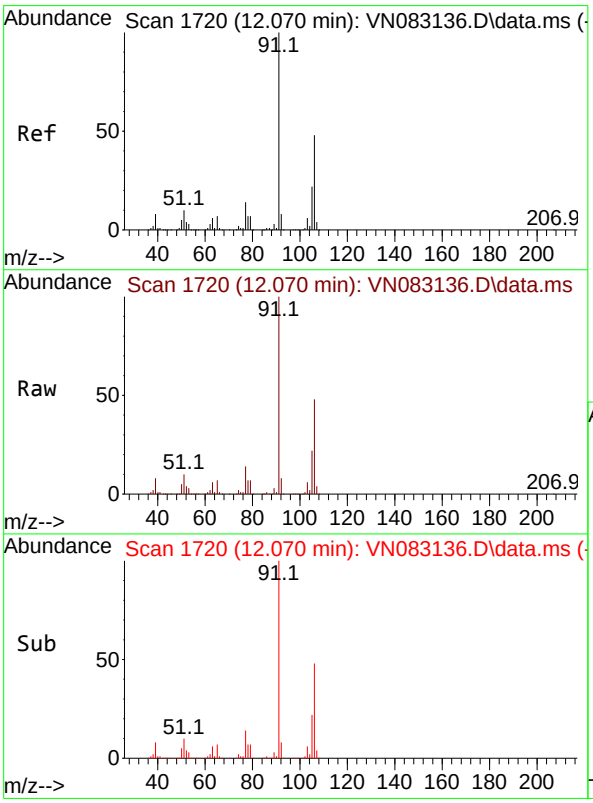
Ion	Ratio	Lower	Upper
91	100		
106	31.3	24.0	36.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

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

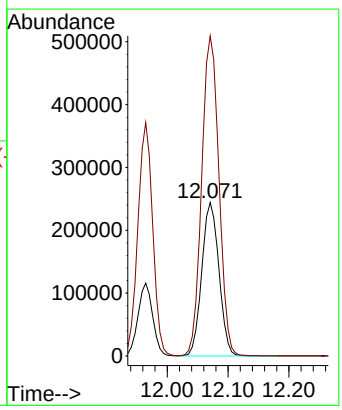


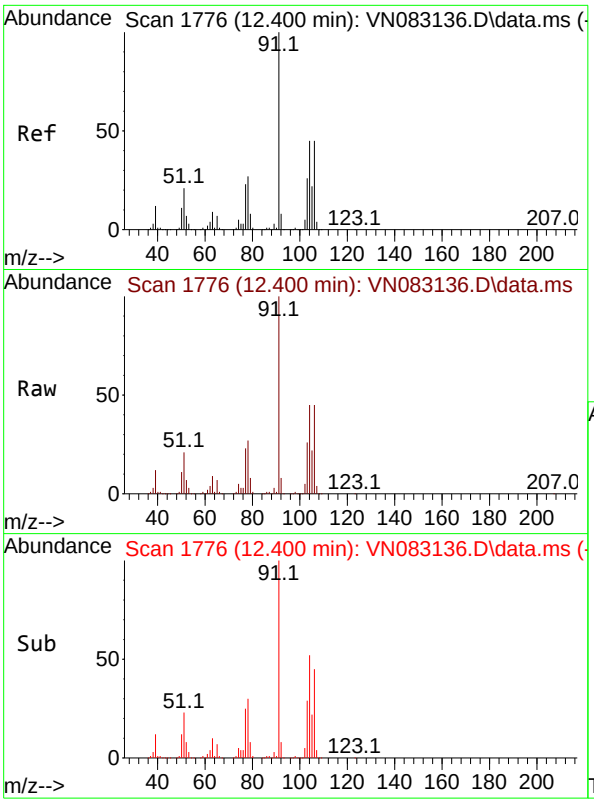


#68
m/p-Xylenes
Concen: 103.683 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:106 Resp: 477261

Ion	Ratio	Lower	Upper
106	100		
91	209.9	166.1	249.1

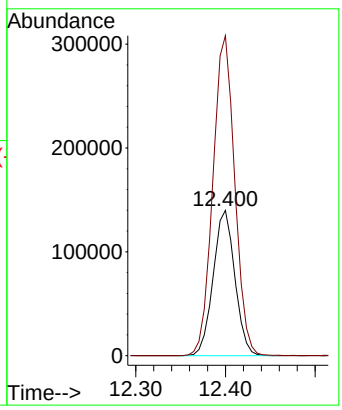




#69
o-Xylene
Concen: 51.638 ug/l
RT: 12.400 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:106 Resp: 23443

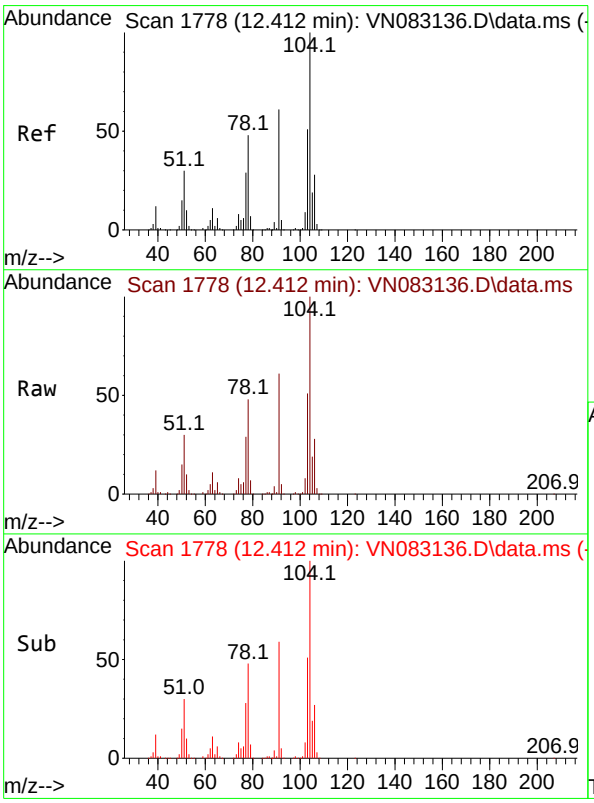
Ion	Ratio	Lower	Upper
106	100		
91	222.4	111.3	333.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

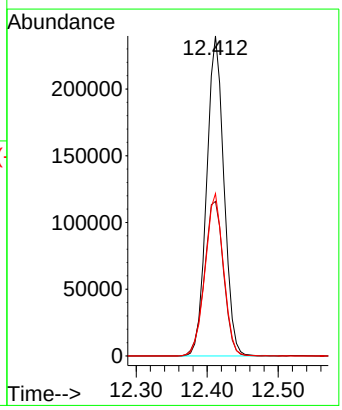
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

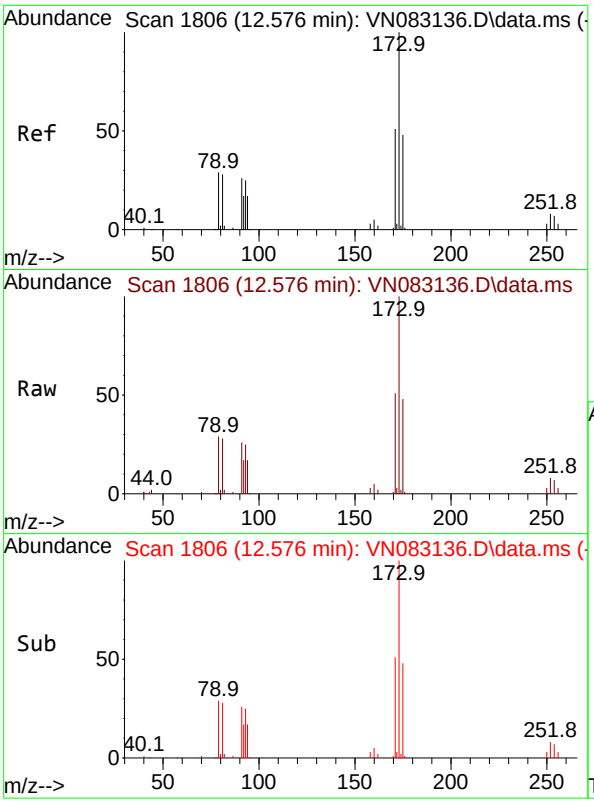


#70
Styrene
Concen: 53.115 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

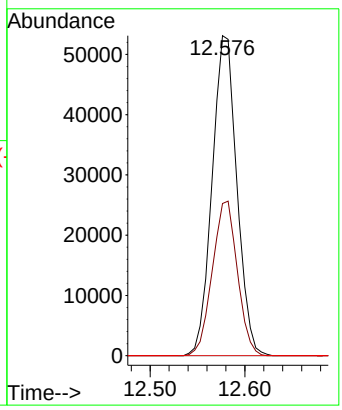




#71
Bromoform
Concen: 53.850 ug/l
RT: 12.576 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:173 Resp: 9637

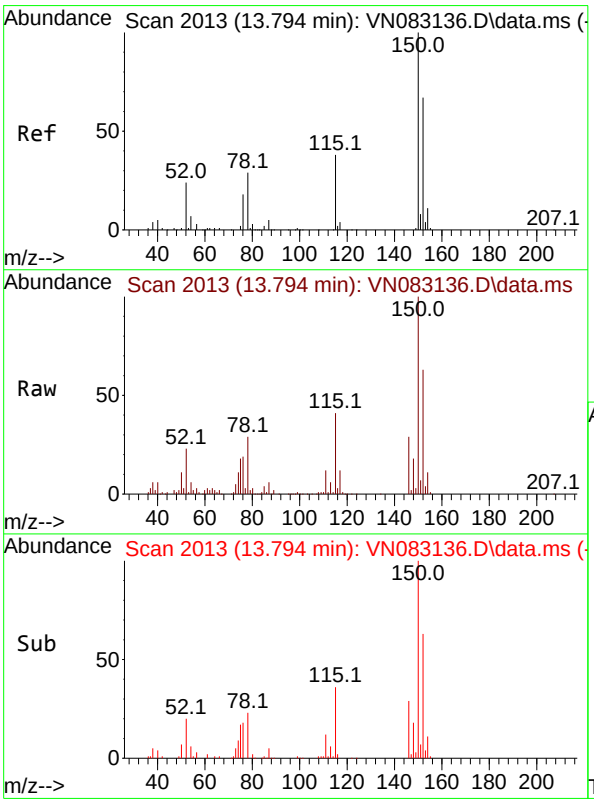
Ion	Ratio	Lower	Upper
173	100		
175	48.9	24.0	72.0
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

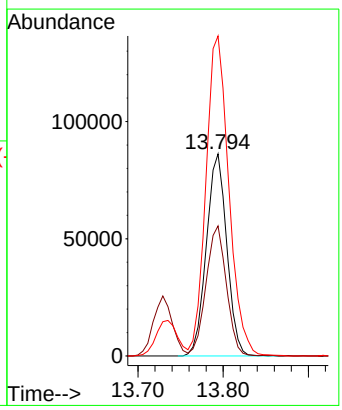
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

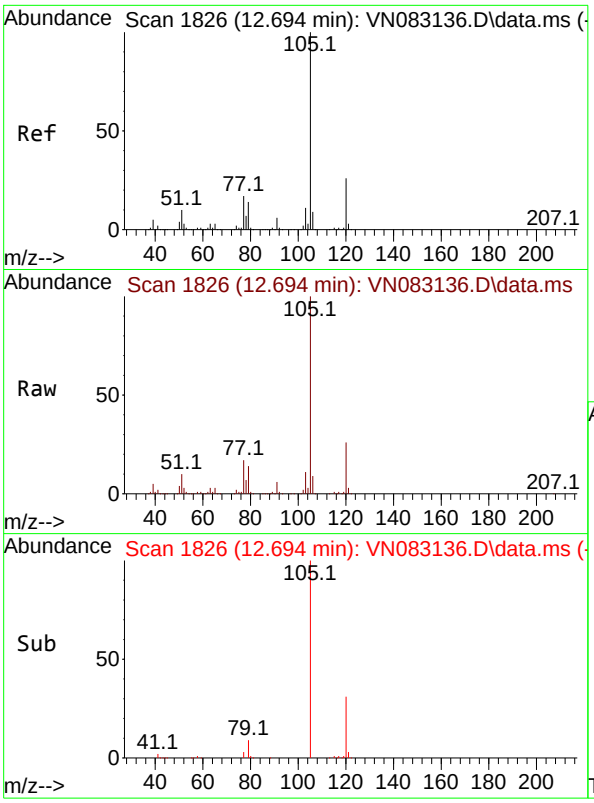


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

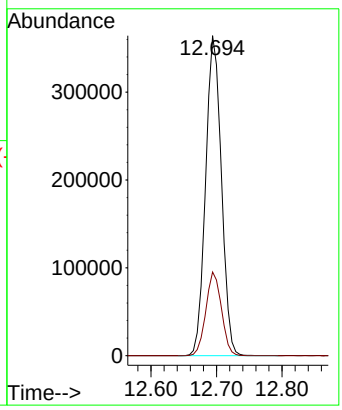




#73
Isopropylbenzene
Concen: 50.795 ug/l
RT: 12.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:105 Resp: 60952

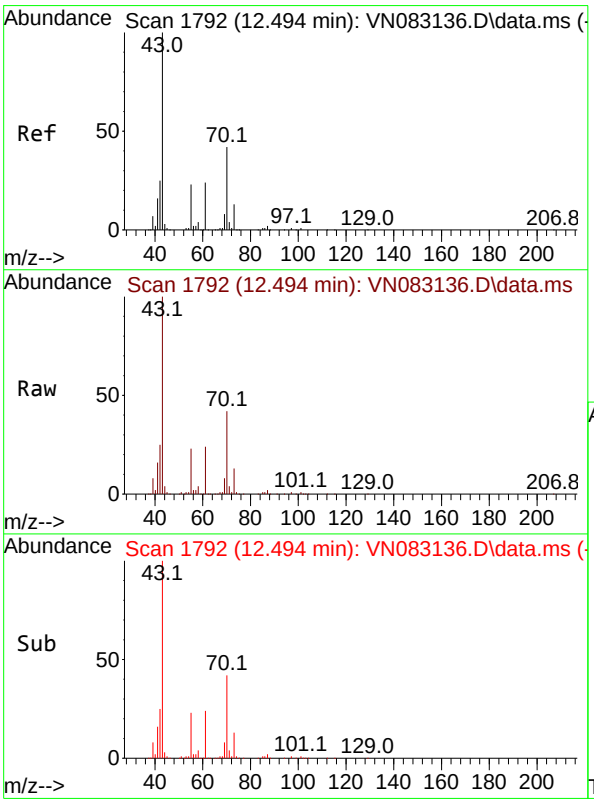
Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.9	38.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

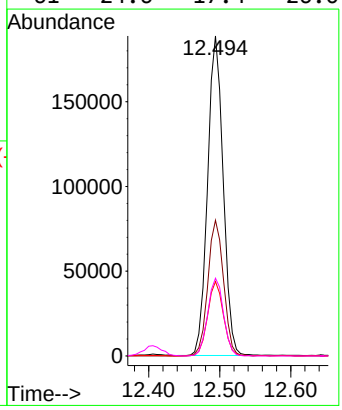
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

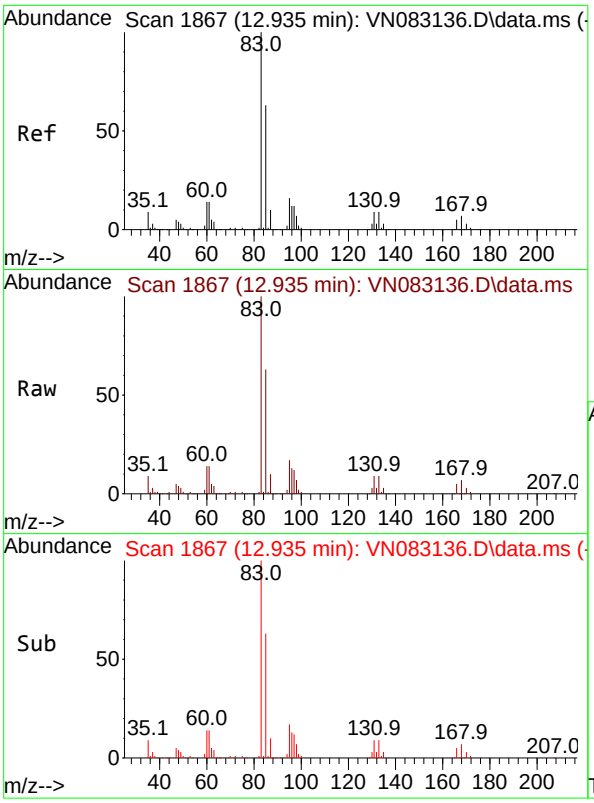


#74
N-amyl acetate
Concen: 48.950 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

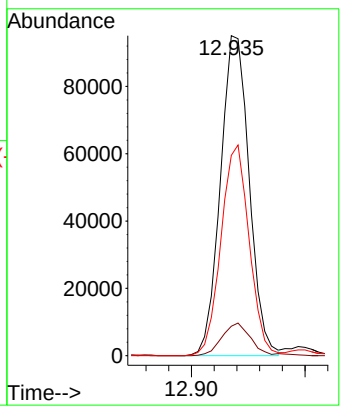
Tgt Ion: 83 Resp: 16748

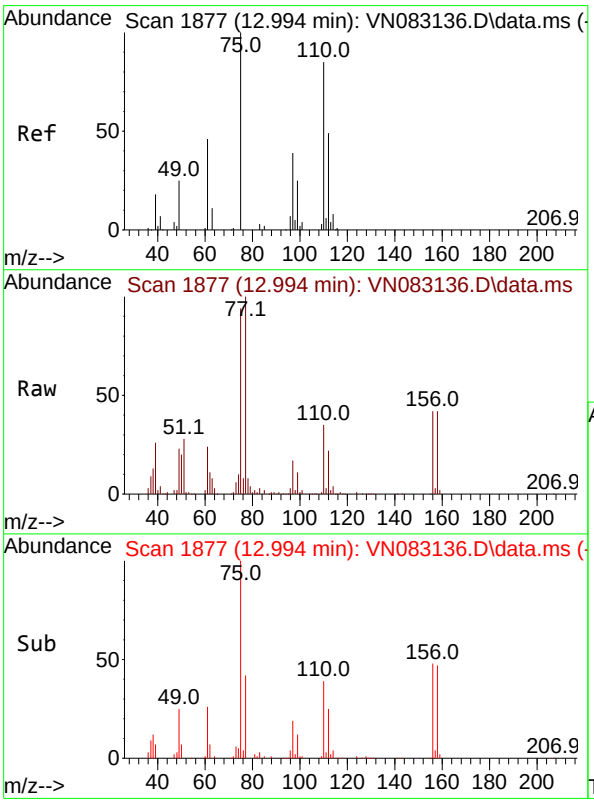
Ion	Ratio	Lower	Upper
83	100		
131	10.4	5.0	14.9
85	64.4	31.9	95.7

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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

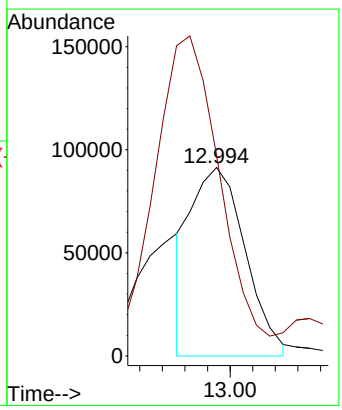


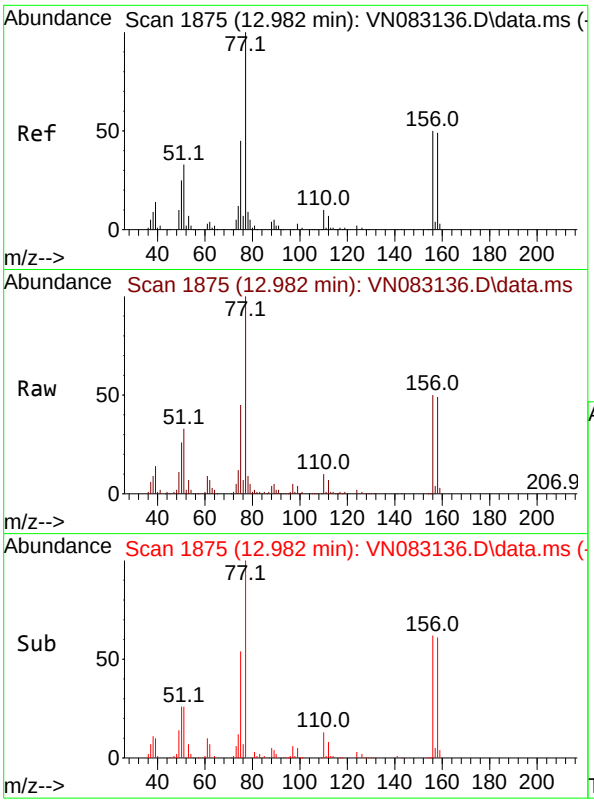


#76
1,2,3-Trichloropropane
Concen: 48.363 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 75 Resp: 152531

Ion	Ratio	Lower	Upper
75	100		
77	207.4	110.9	332.6

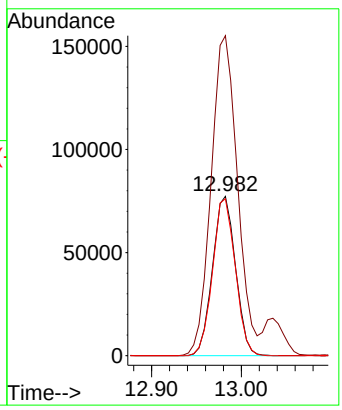




#77
Bromobenzene
Concen: 51.587 ug/l
RT: 12.982 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:156 Resp: 13751

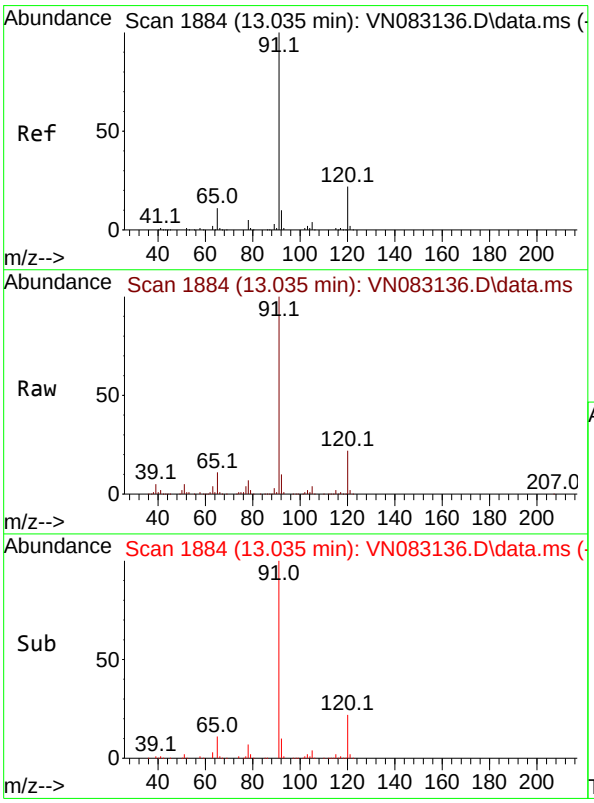
Ion	Ratio	Lower	Upper
156	100		
77	230.1	111.3	333.8
158	97.4	48.3	144.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

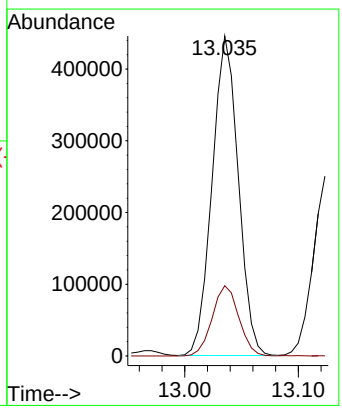
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

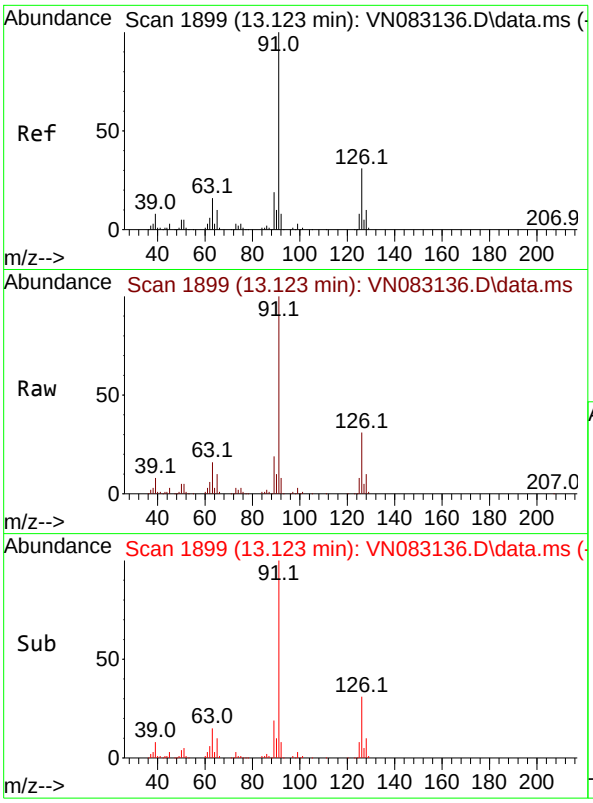


#78
n-propylbenzene
Concen: 51.584 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 91 Resp: 712768

Ion	Ratio	Lower	Upper
91	100		
120	22.3	10.9	32.9

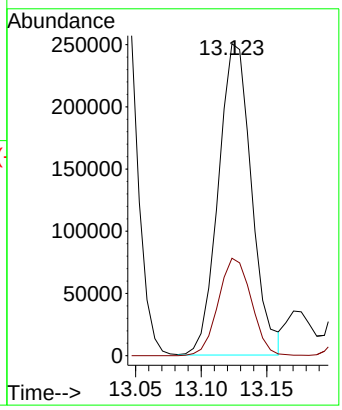




#79
2-Chlorotoluene
Concen: 50.371 ug/l
RT: 13.123 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 91 Resp: 44126

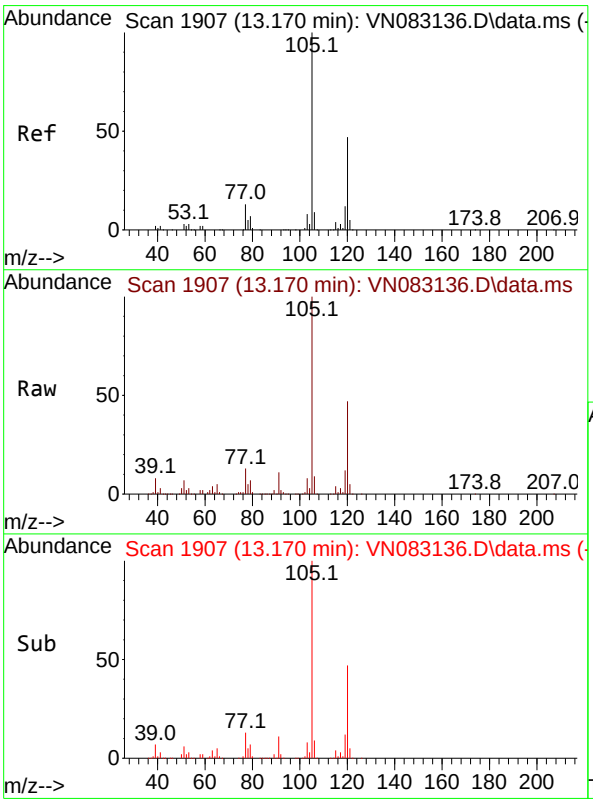
Ion	Ratio	Lower	Upper
91	100		
126	31.1	16.2	48.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

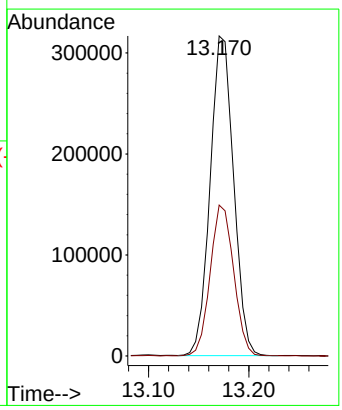
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

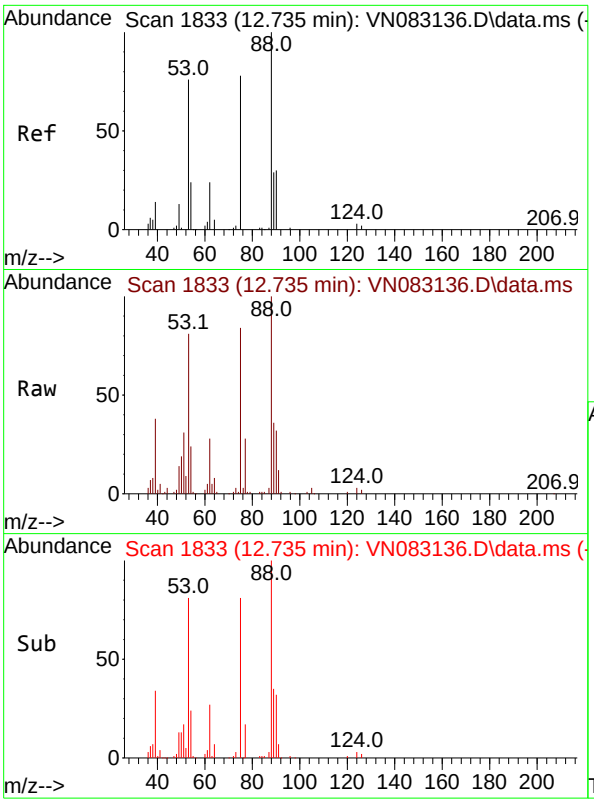


#80
1,3,5-Trimethylbenzene
Concen: 51.254 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

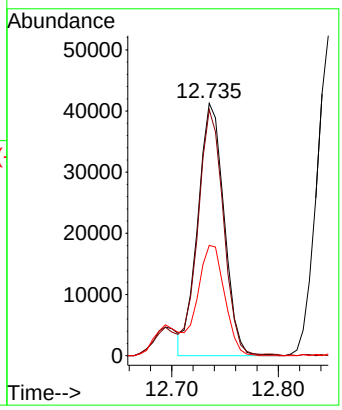
Tgt Ion: 75 Resp: 7077

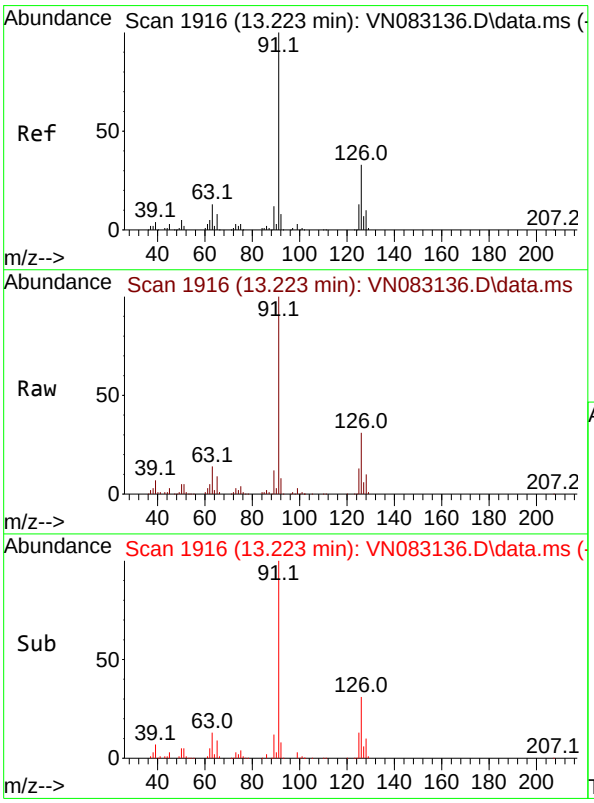
Ion	Ratio	Lower	Upper
75	100		
53	94.2	88.4	132.6
89	44.3	36.3	54.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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

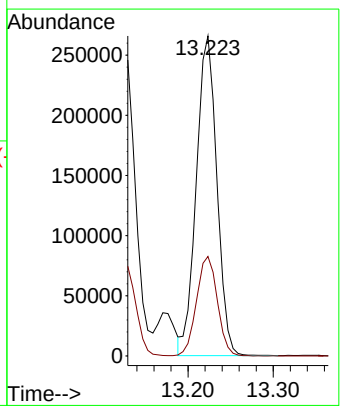


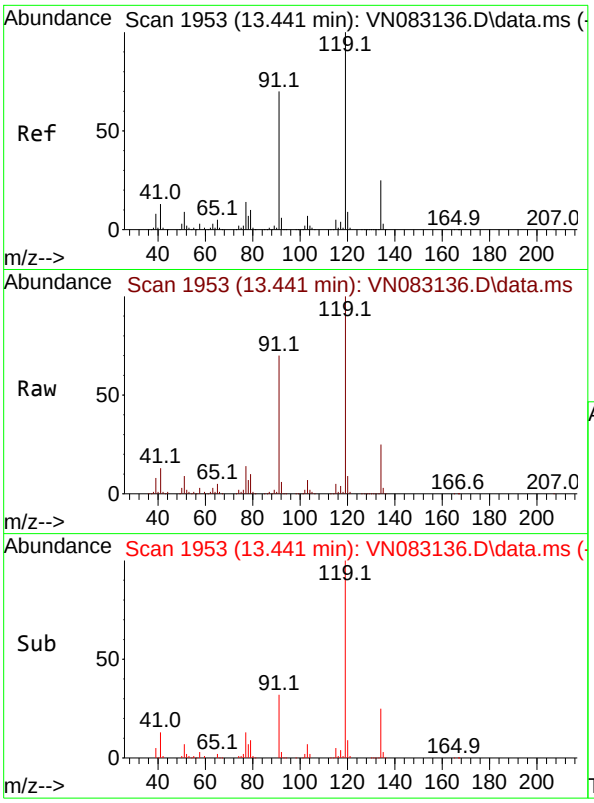


#82
4-Chlorotoluene
Concen: 50.684 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 91 Resp: 445369

Ion	Ratio	Lower	Upper
91	100		
126	31.6	16.2	48.6

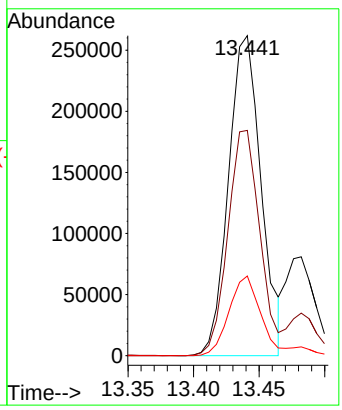




#83
tert-Butylbenzene
Concen: 50.983 ug/l
RT: 13.441 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:119 Resp: 45359

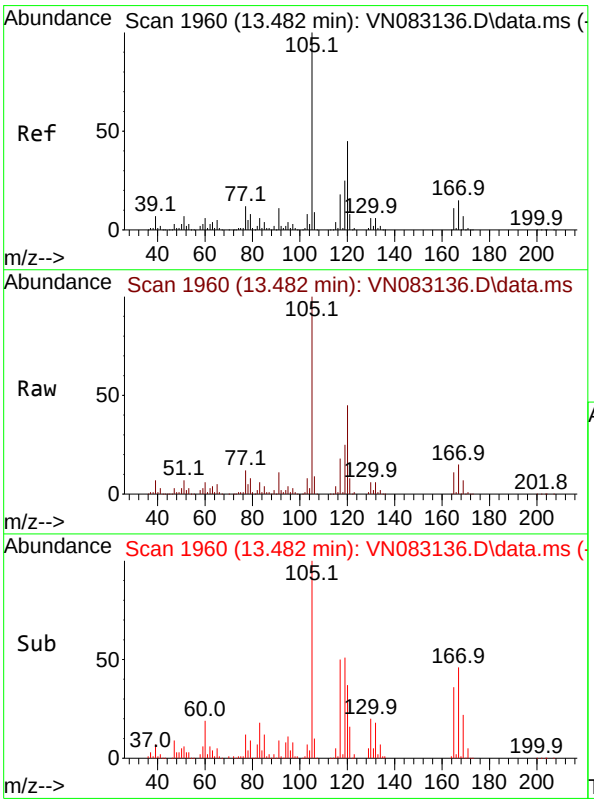
Ion	Ratio	Lower	Upper
119	100		
91	68.9	35.0	105.1
134	24.1	13.3	39.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

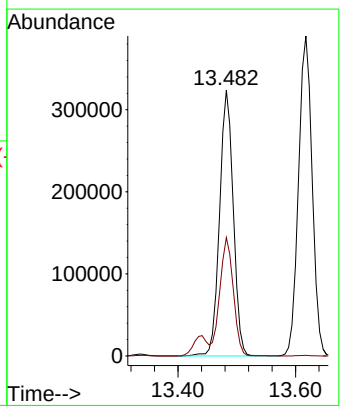
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

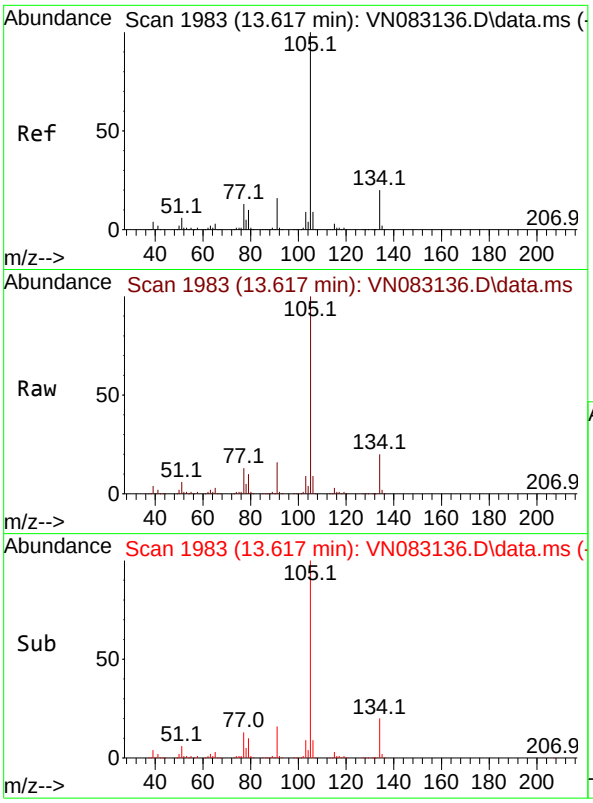


#84
1,2,4-Trimethylbenzene
Concen: 51.778 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:105 Resp: 524226

Ion	Ratio	Lower	Upper
105	100		
120	44.1	21.9	65.8

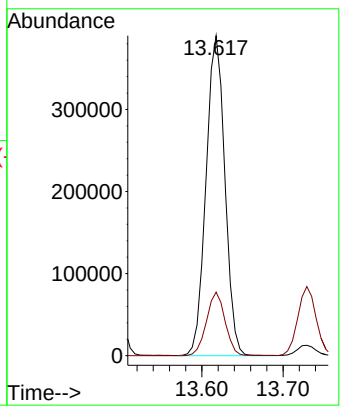




#85
sec-Butylbenzene
Concen: 51.809 ug/l
RT: 13.617 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:105 Resp: 62895

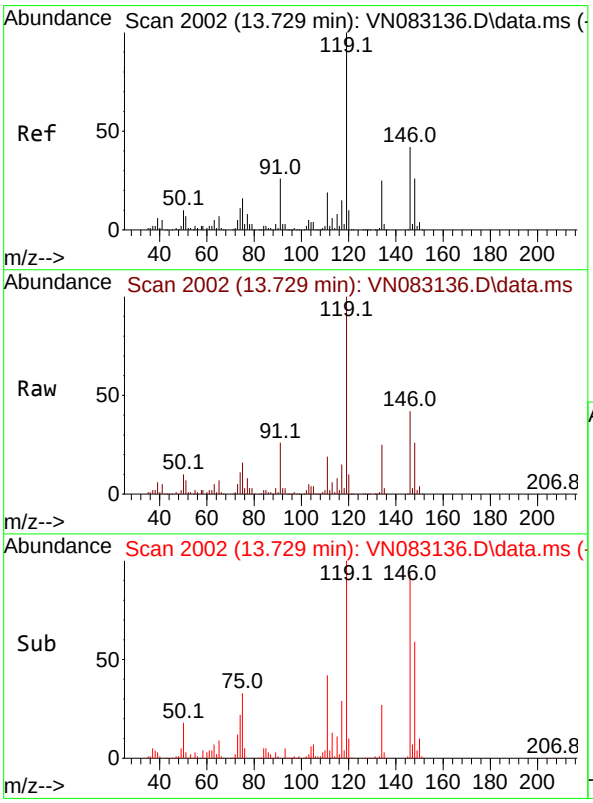
Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

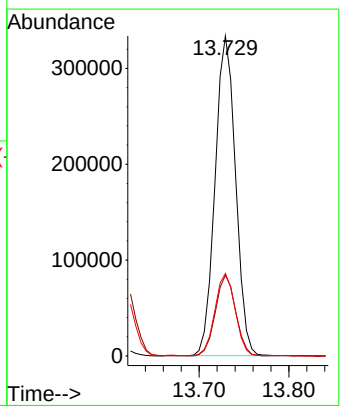
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

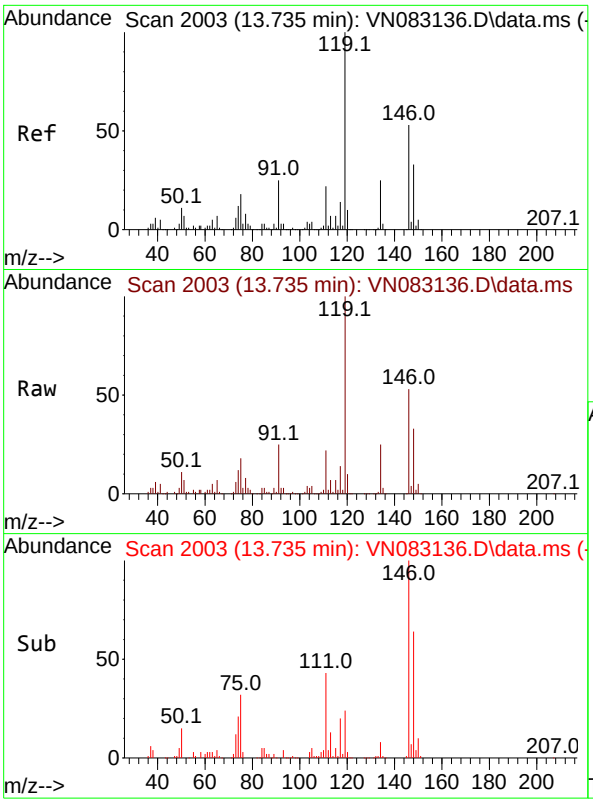


#86
p-Isopropyltoluene
Concen: 52.699 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

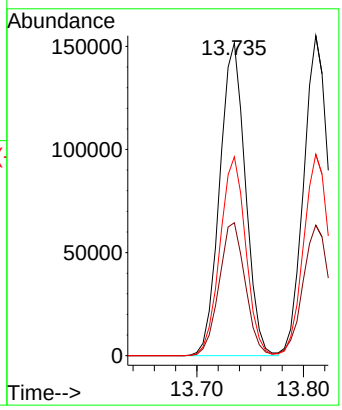




#87
1,3-Dichlorobenzene
Concen: 50.651 ug/l
RT: 13.735 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:146 Resp: 25405

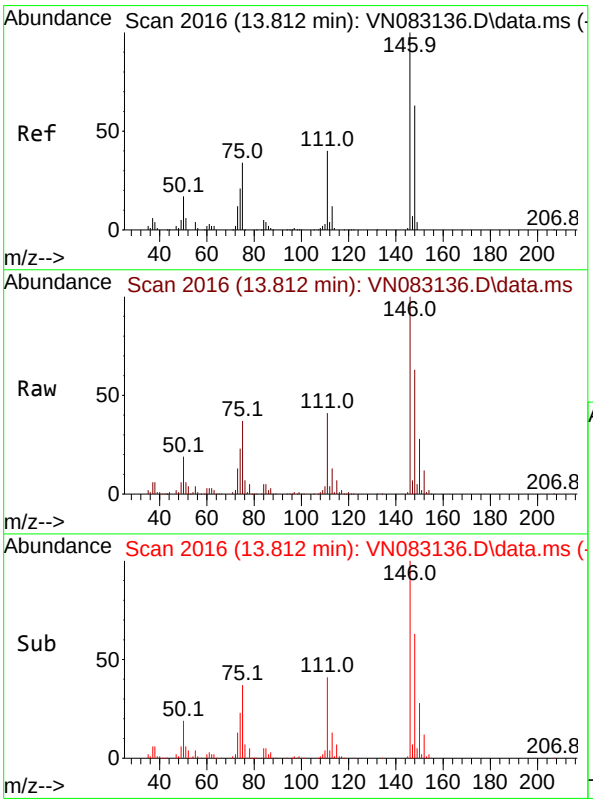
Ion	Ratio	Lower	Upper
146	100		
111	43.1	20.6	61.9
148	63.5	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

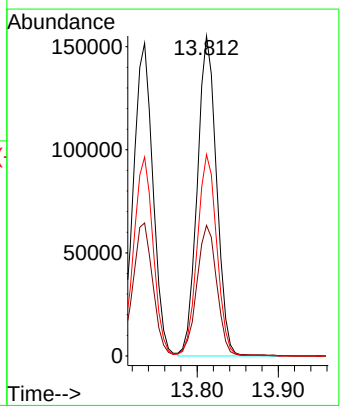
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

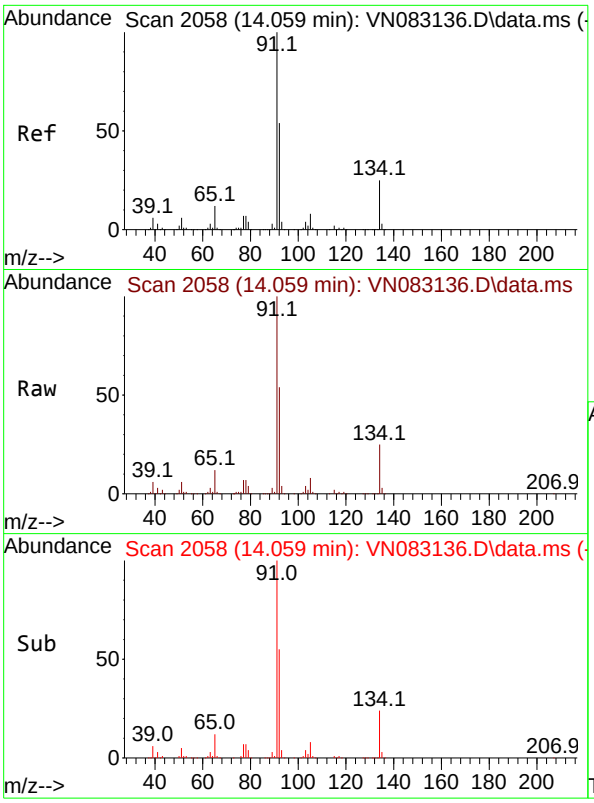


#88
1,4-Dichlorobenzene
Concen: 50.589 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

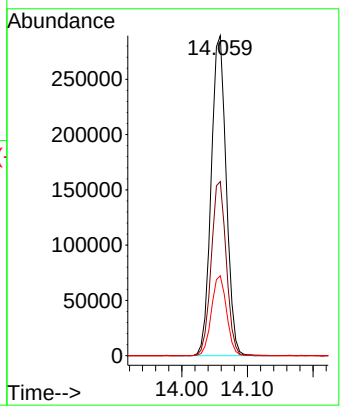




#89
n-Butylbenzene
Concen: 53.120 ug/l
RT: 14.059 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 91 Resp: 46137

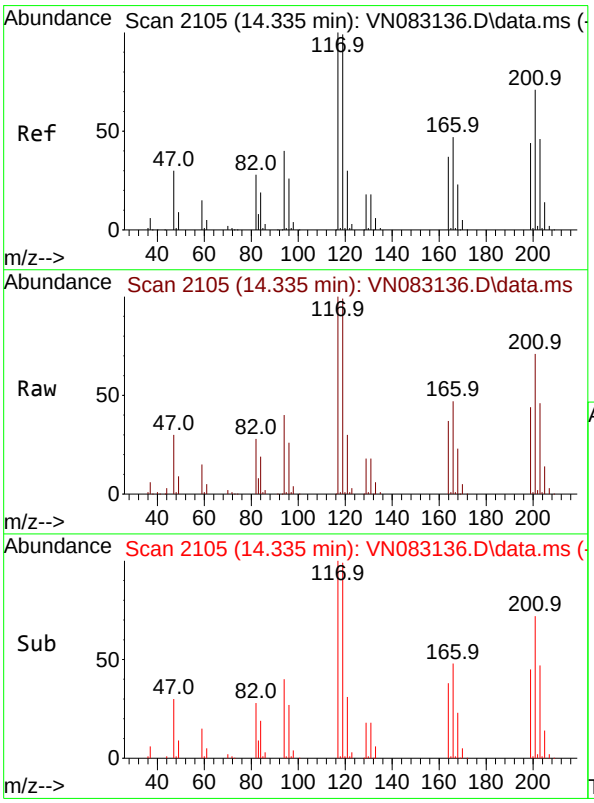
Ion	Ratio	Lower	Upper
91	100		
92	54.4	26.1	78.3
134	25.1	12.1	36.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

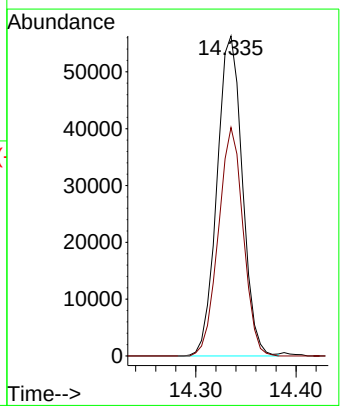
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

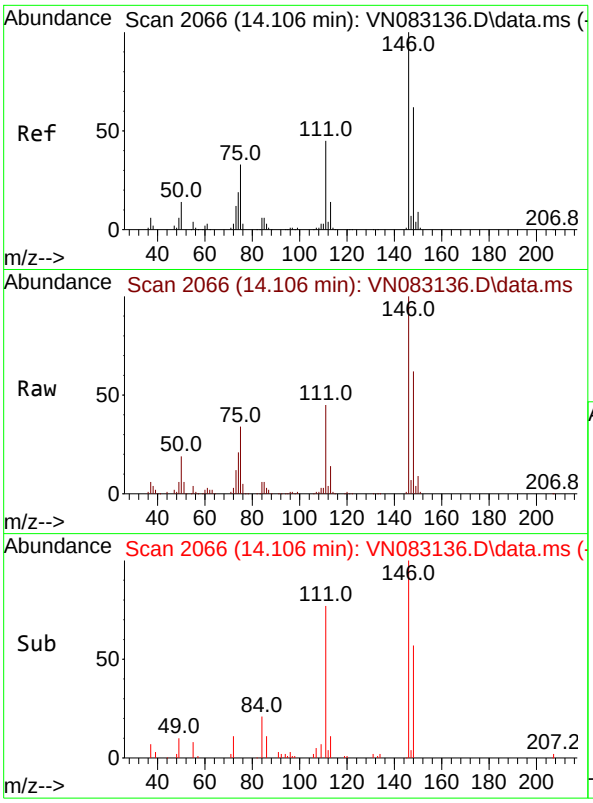


#90
Hexachloroethane
Concen: 51.037 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:117 Resp: 98836

Ion	Ratio	Lower	Upper
117	100		
201	69.9	35.8	107.3

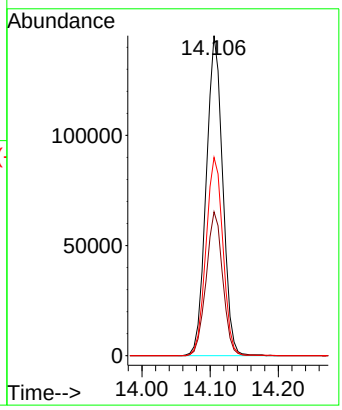




#91
1,2-Dichlorobenzene
Concen: 50.365 ug/l
RT: 14.106 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:146 Resp: 24446

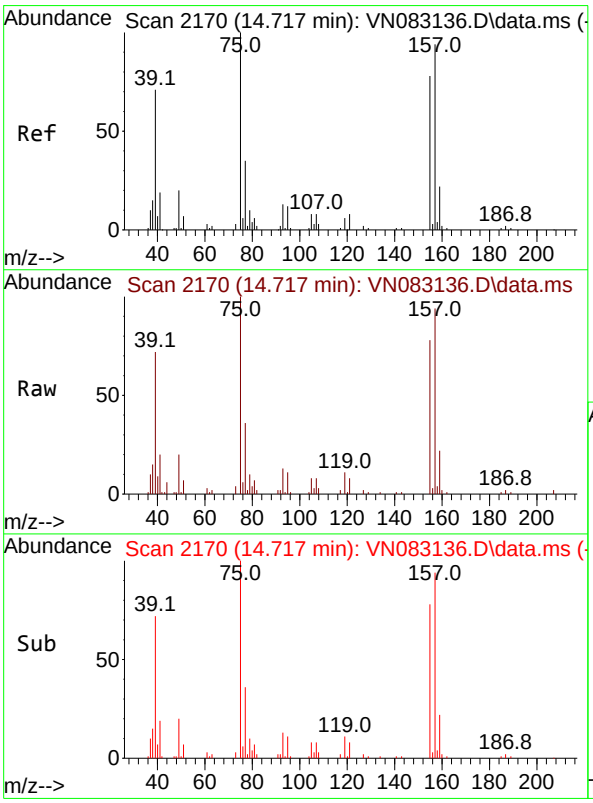
Ion	Ratio	Lower	Upper
146	100		
111	45.3	21.4	64.2
148	63.6	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

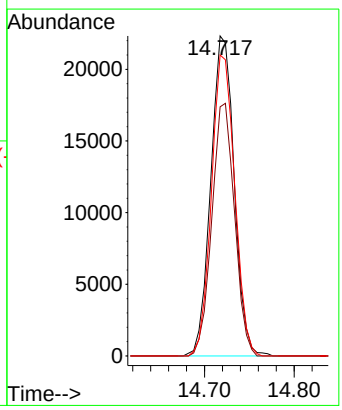
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

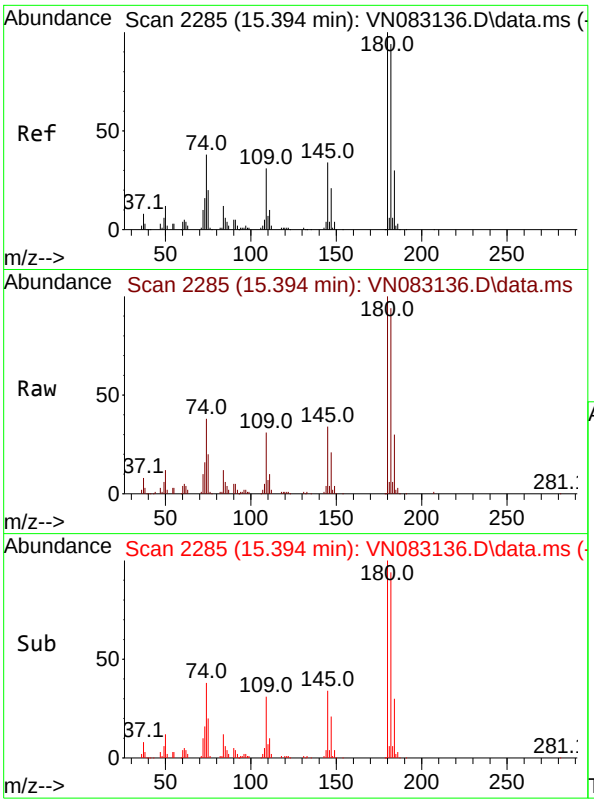


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.017 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

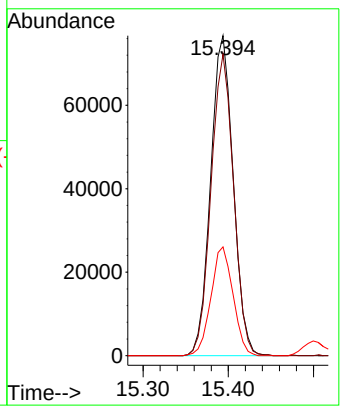




#93
1,2,4-Trichlorobenzene
Concen: 51.937 ug/l
RT: 15.394 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:180 Resp: 14122

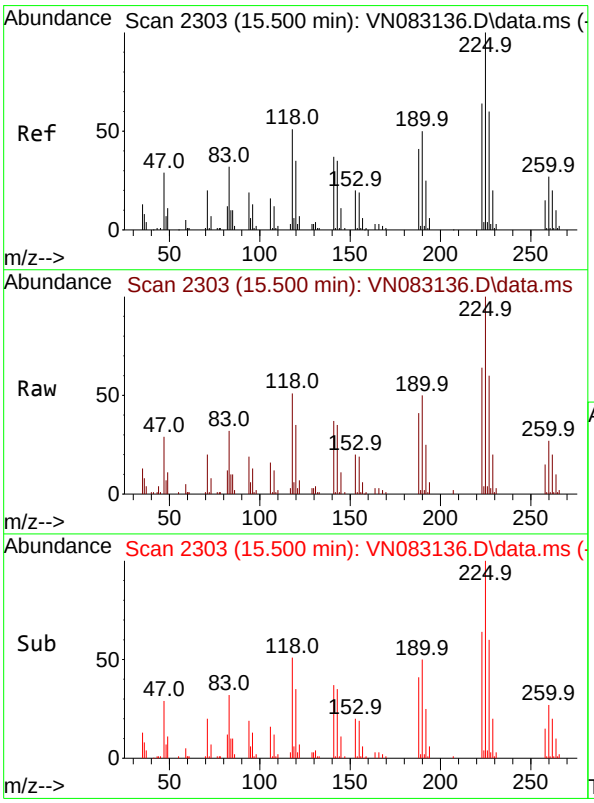
Ion	Ratio	Lower	Upper
180	100		
182	94.1	47.3	141.8
145	33.3	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

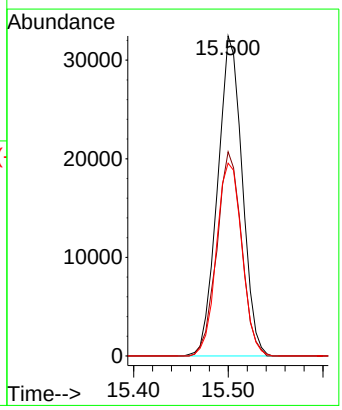
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

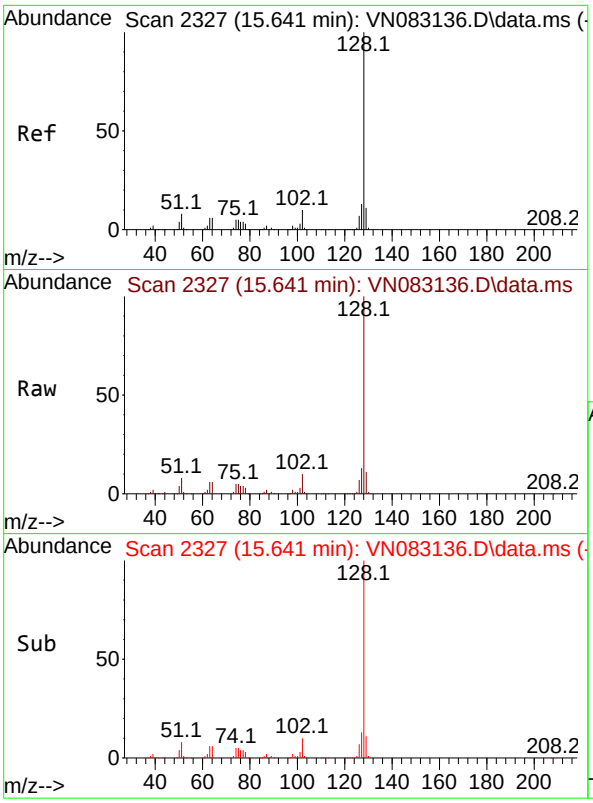


#94
Hexachlorobutadiene
Concen: 48.509 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

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

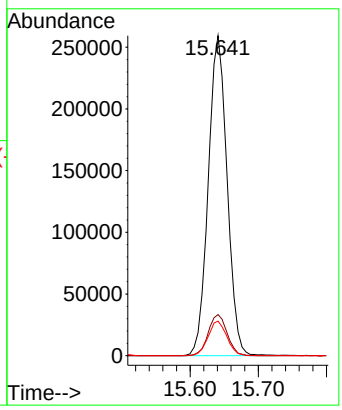




#95
Naphthalene
Concen: 51.844 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:128 Resp: 49937

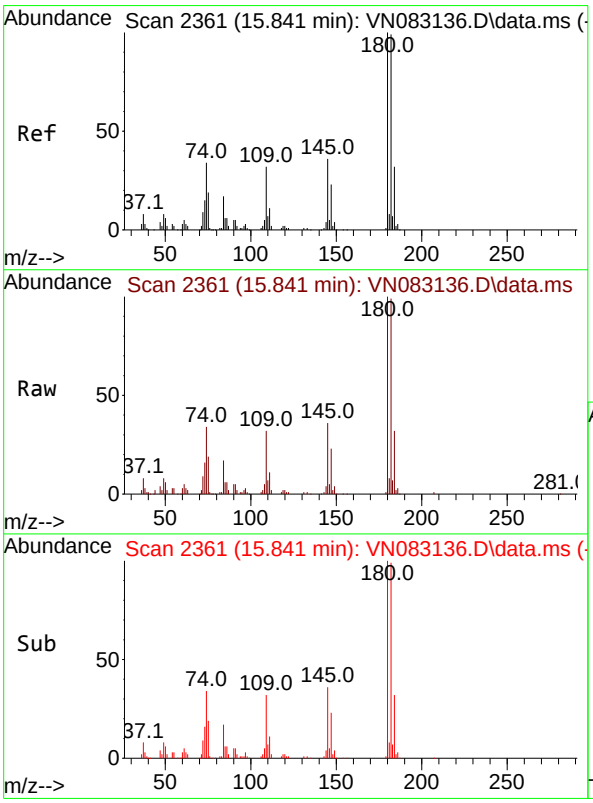
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.6	16.0
129	10.7	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

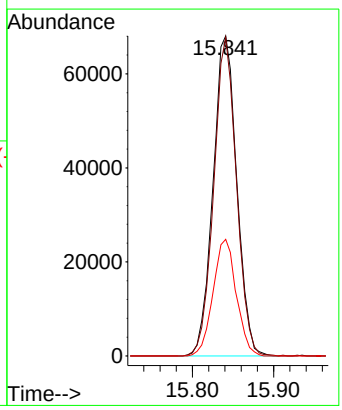
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#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



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

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

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

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)

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

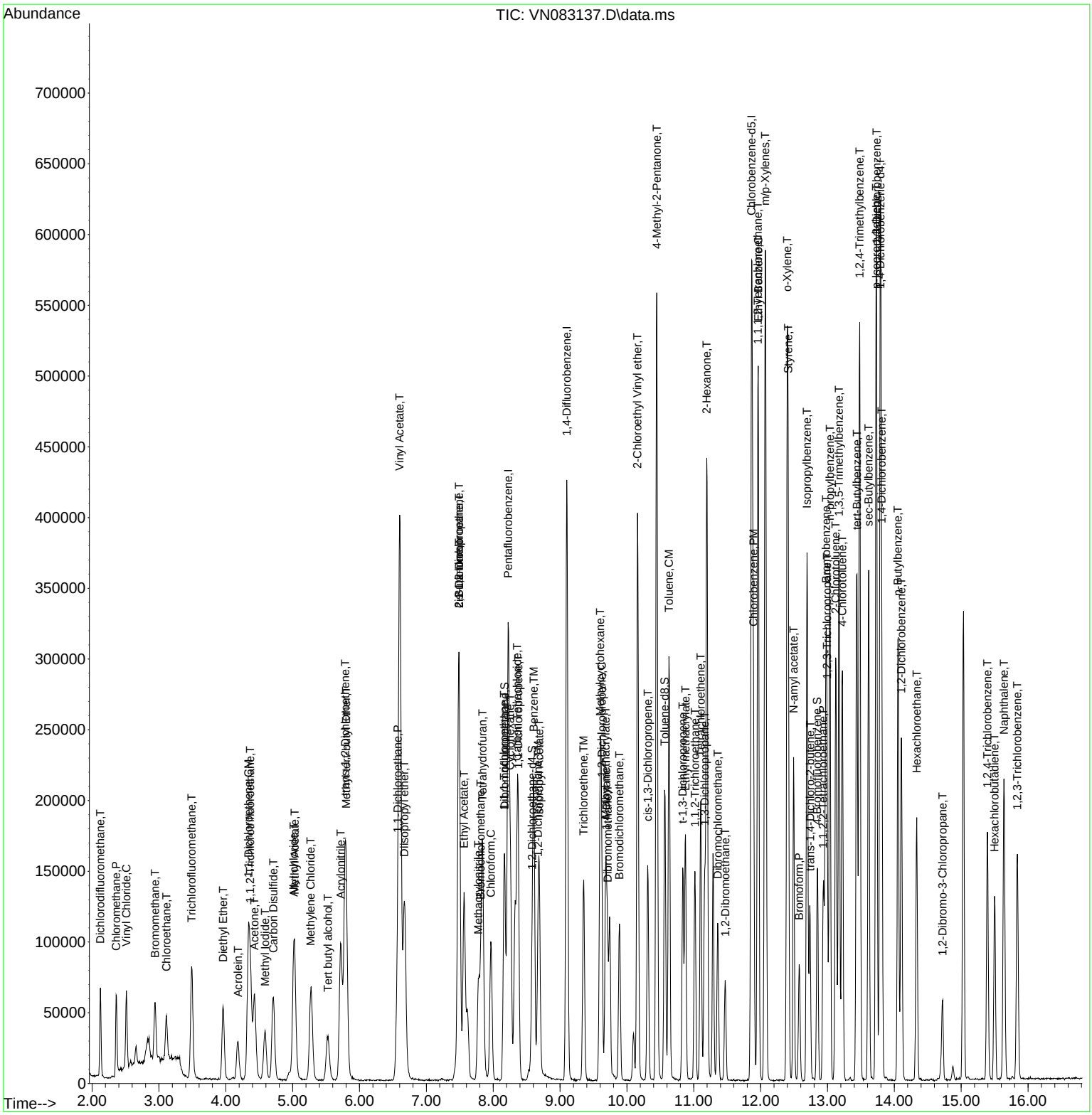
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083137.D
Acq On : 07 Aug 2024 11:22
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

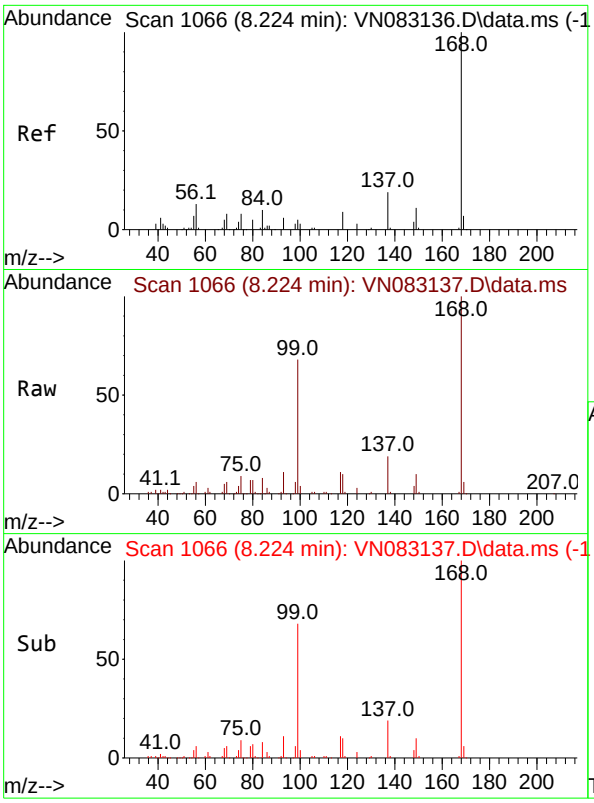
Quant Time: Aug 08 06:16:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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

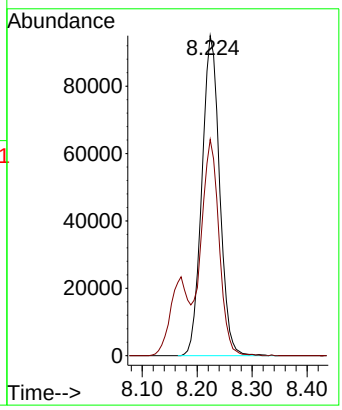




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:168 Resp: 21291

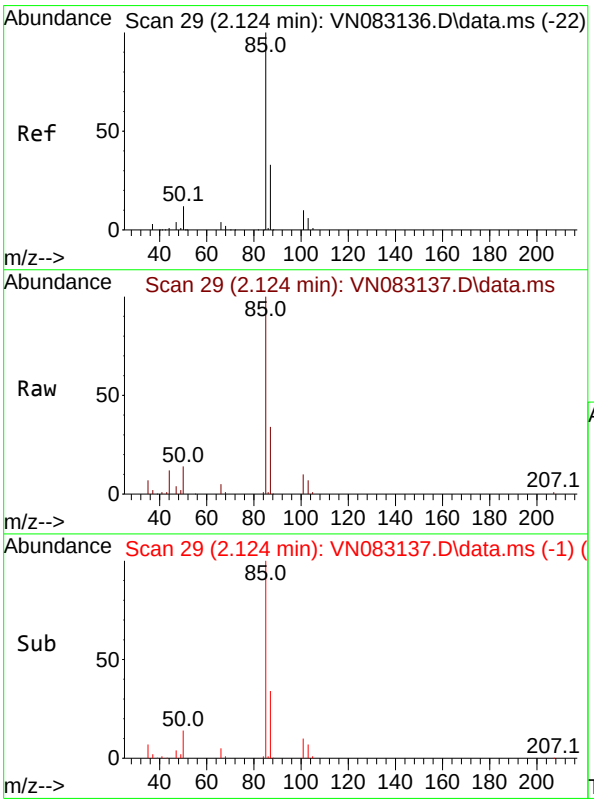
Ion	Ratio	Lower	Upper
168	100		
99	67.5	48.2	72.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

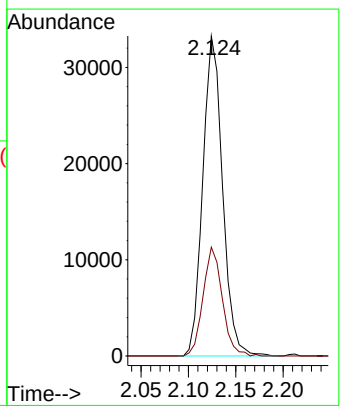
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

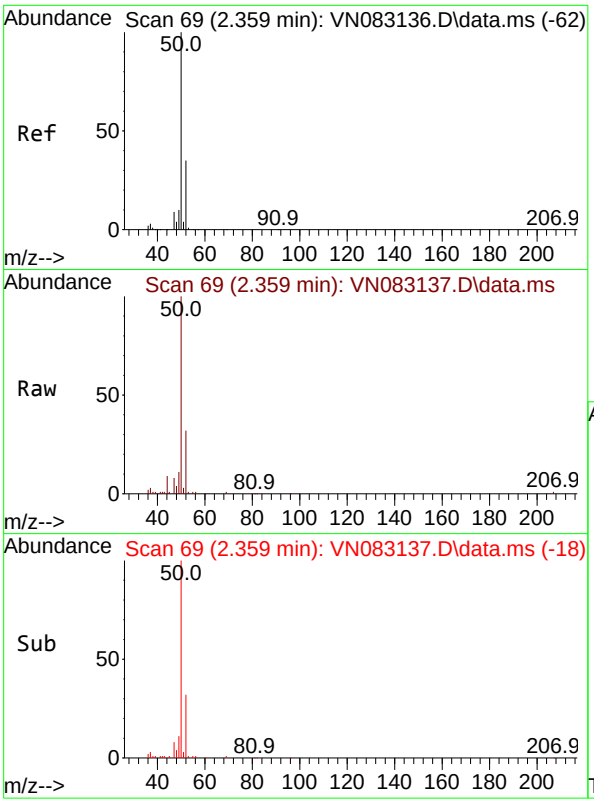


#2
Dichlorodifluoromethane
Concen: 19.959 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 85 Resp: 48191

Ion	Ratio	Lower	Upper
85	100		
87	34.0	15.7	47.0

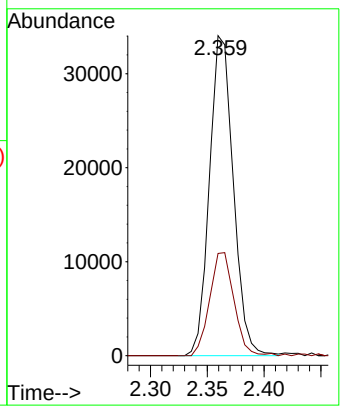




#3
Chloromethane
Concen: 20.137 ug/l
RT: 2.359 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 50 Resp: 4977

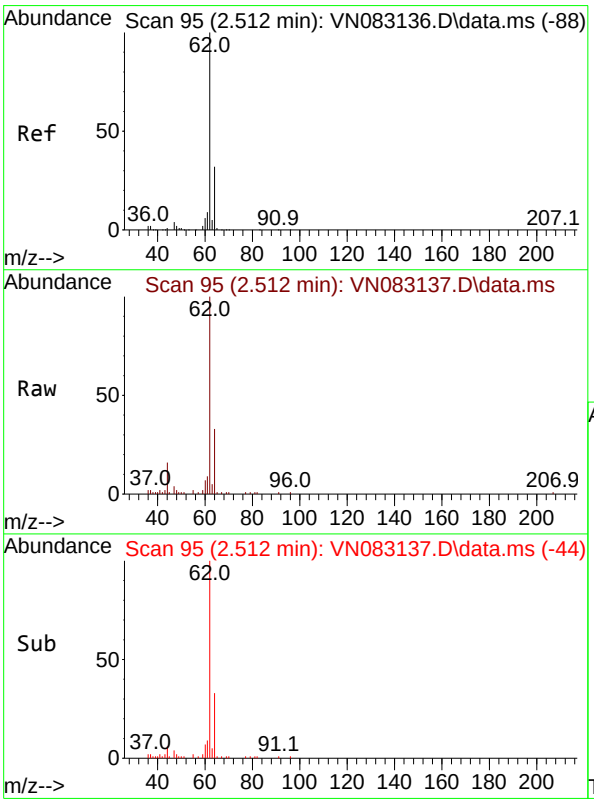
Ion	Ratio	Lower	Upper
50	100		
52	31.9	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

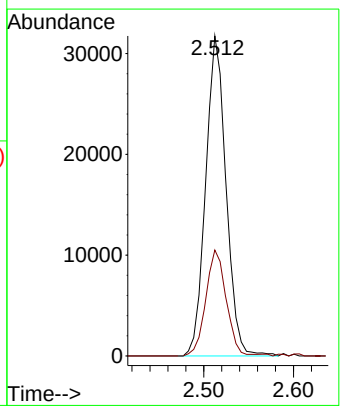
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

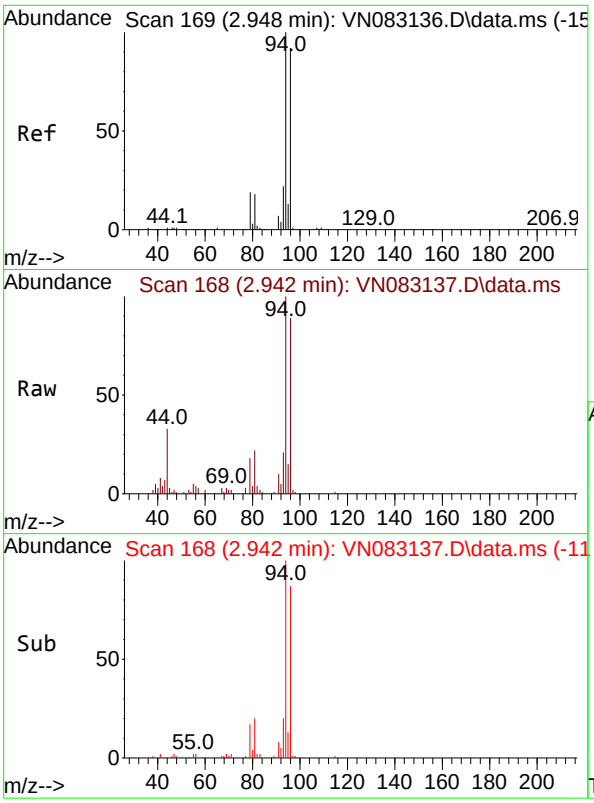


#4
Vinyl Chloride
Concen: 19.866 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 62 Resp: 50108

Ion	Ratio	Lower	Upper
62	100		
64	33.1	25.0	37.6

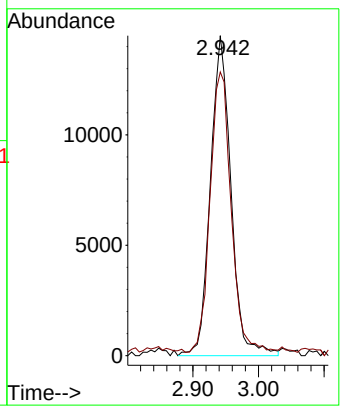




#5
Bromomethane
Concen: 20.143 ug/l
RT: 2.942 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 94 Resp: 3152

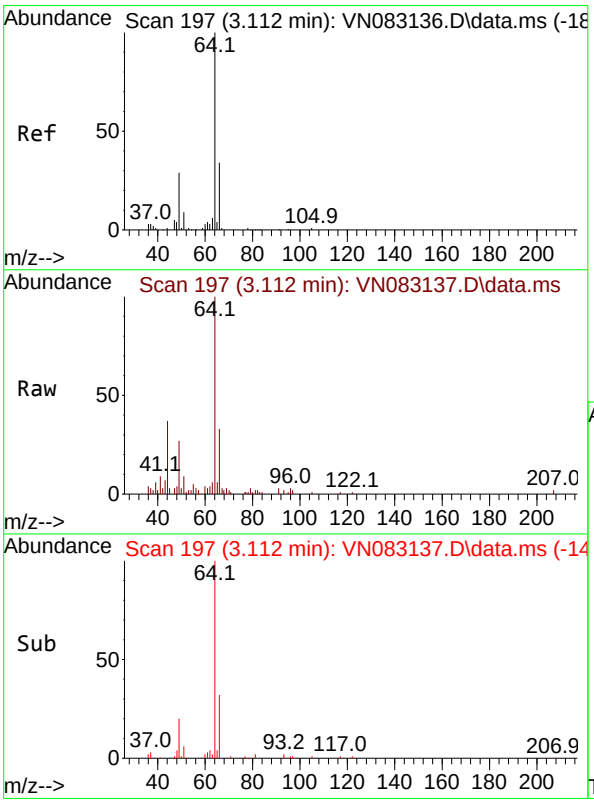
Ion	Ratio	Lower	Upper
94	100		
96	87.1	78.0	117.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

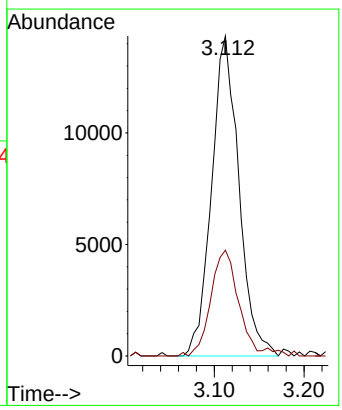
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

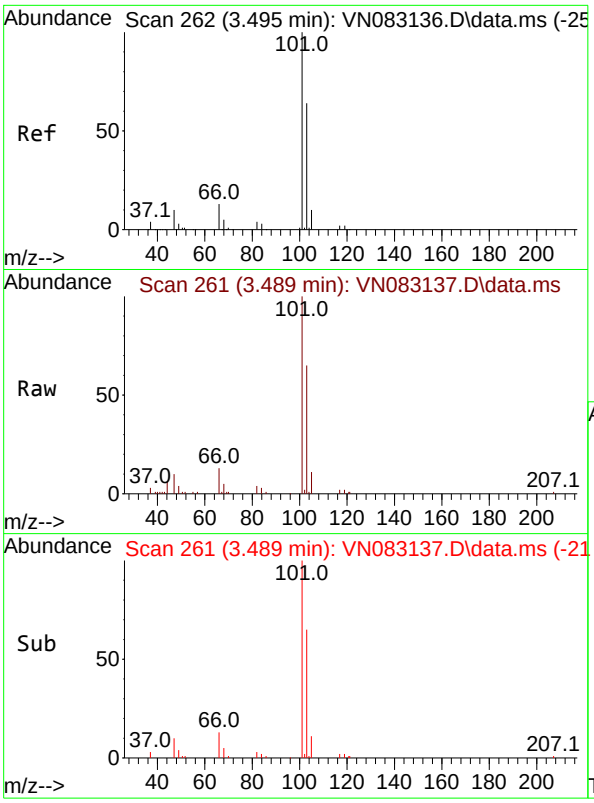


#6
Chloroethane
Concen: 19.221 ug/l
RT: 3.112 min Scan# 197
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 64 Resp: 30331

Ion	Ratio	Lower	Upper
64	100		
66	33.0	26.6	40.0

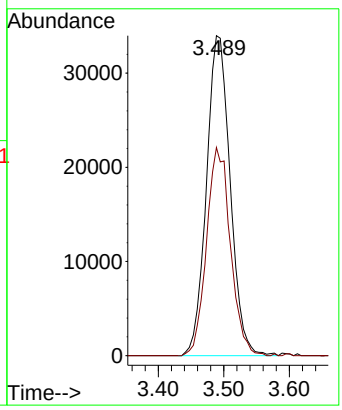




#7
Trichlorofluoromethane
Concen: 20.531 ug/l
RT: 3.489 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:101 Resp: 8555

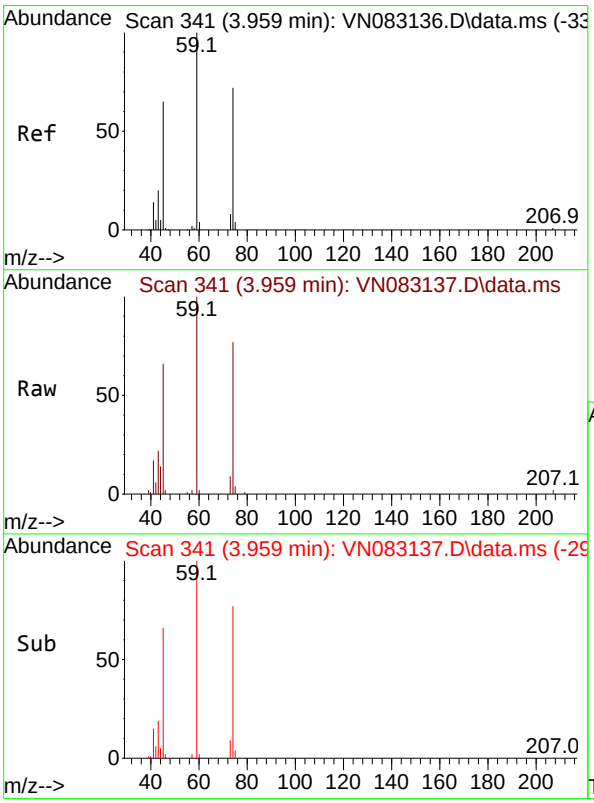
Ion	Ratio	Lower	Upper
101	100		
103	65.0	52.7	79.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

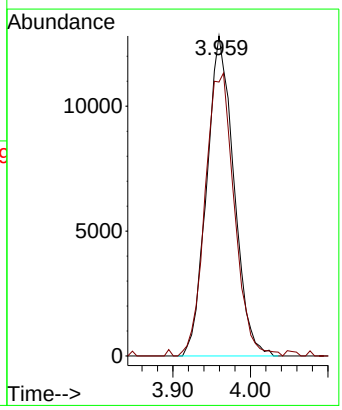
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

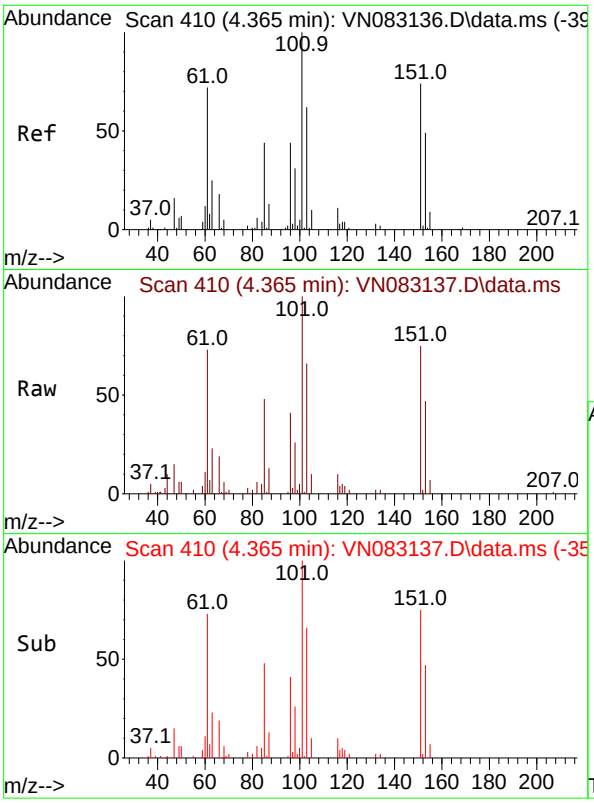


#8
Diethyl Ether
Concen: 20.158 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 74 Resp: 31256

Ion	Ratio	Lower	Upper
74	100		
45	94.8	55.5	166.3

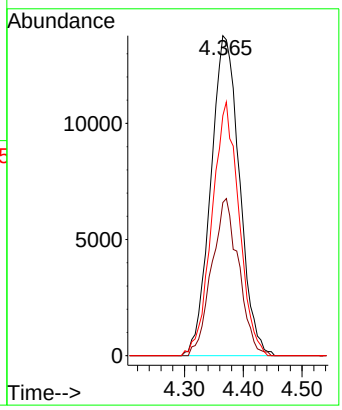




#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.321 ug/l
RT: 4.365 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:101 Resp: 4668

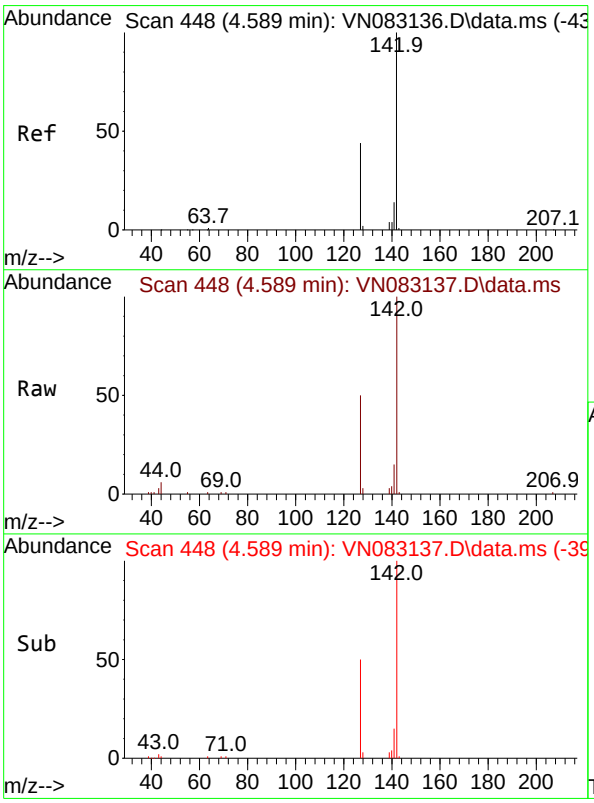
Ion	Ratio	Lower	Upper
101	100		
85	46.5	38.3	57.5
151	74.6	59.3	88.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

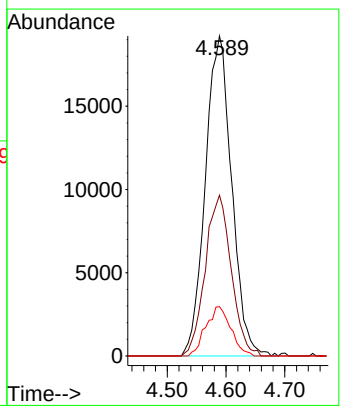
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

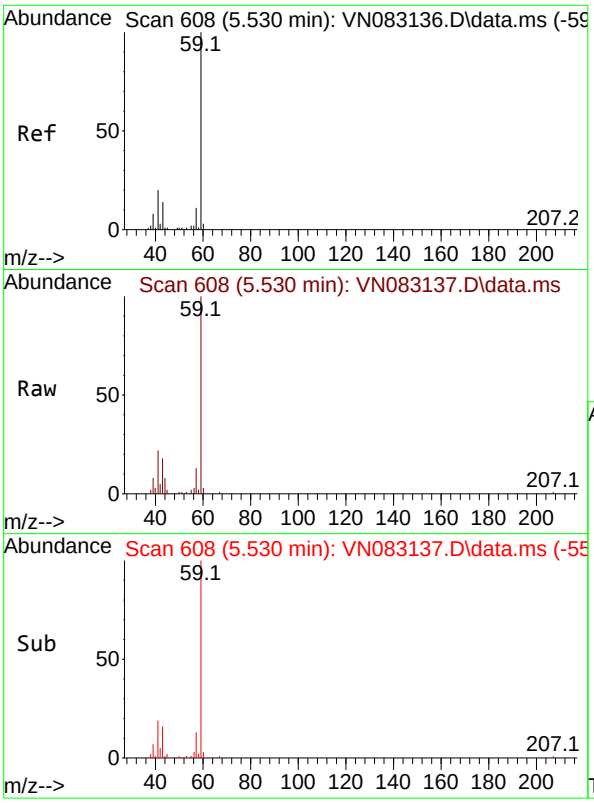


#10
Methyl Iodide
Concen: 19.810 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

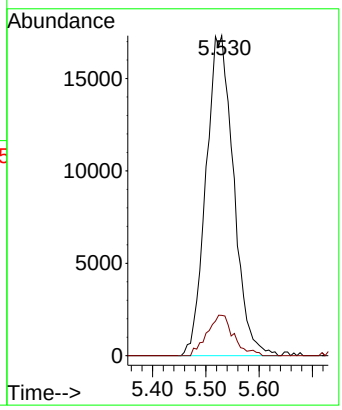




#11
Tert butyl alcohol
Concen: 98.946 ug/l
RT: 5.530 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 59 Resp: 6231

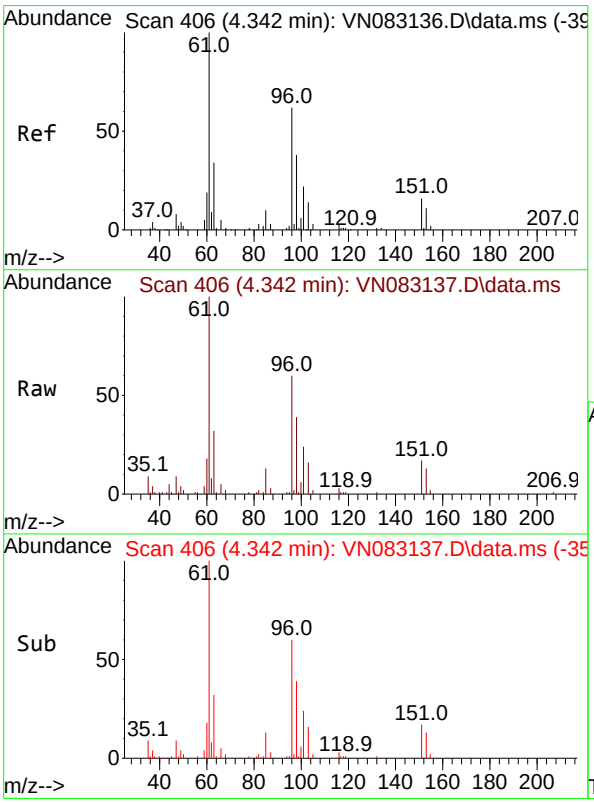
Ion	Ratio	Lower	Upper
59	100		
57	12.2	8.9	13.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

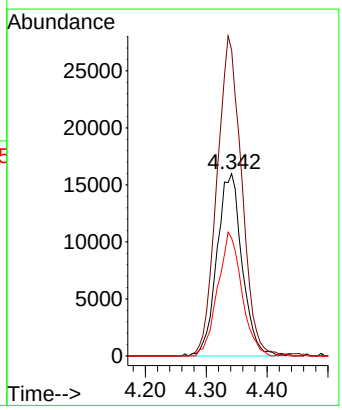
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

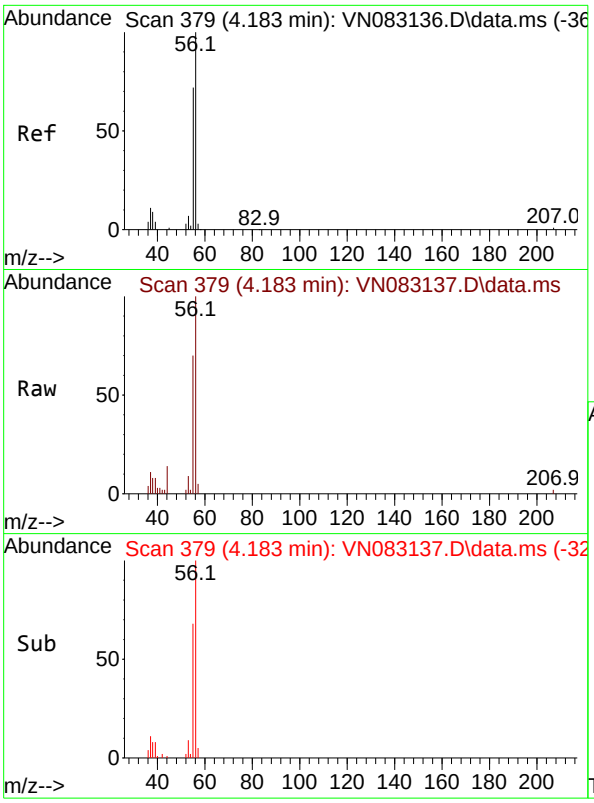


#12
1,1-Dichloroethene
Concen: 19.399 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

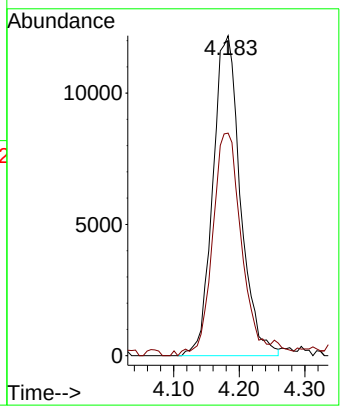




#13
Acrolein
Concen: 86.524 ug/l
RT: 4.183 min Scan# 3
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 56 Resp: 3551

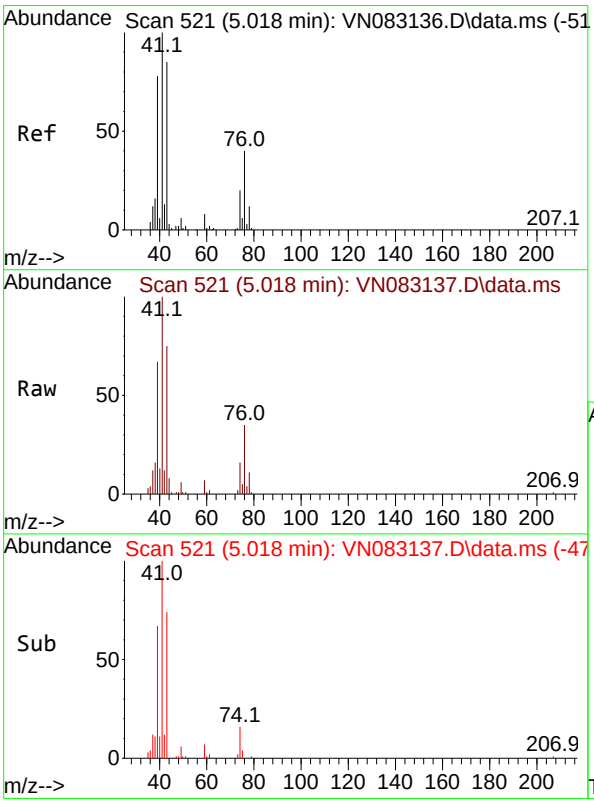
Ion	Ratio	Lower	Upper
56	100		
55	72.6	56.4	84.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

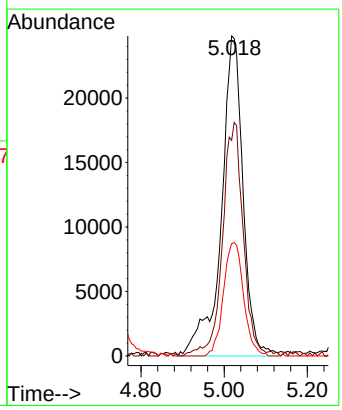
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

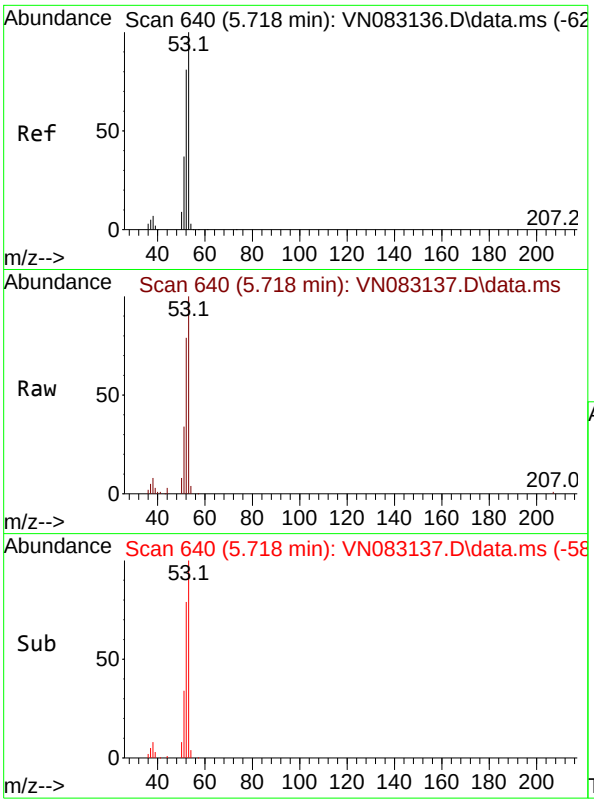


#14
Allyl chloride
Concen: 20.301 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

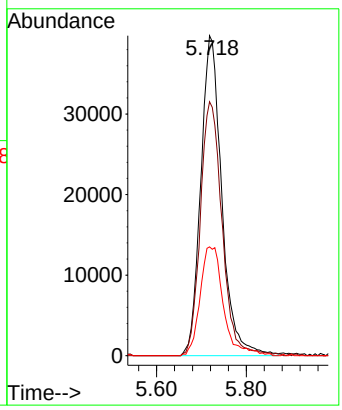




#15
Acrylonitrile
Concen: 99.835 ug/l
RT: 5.718 min Scan# 64
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 53 Resp: 12931

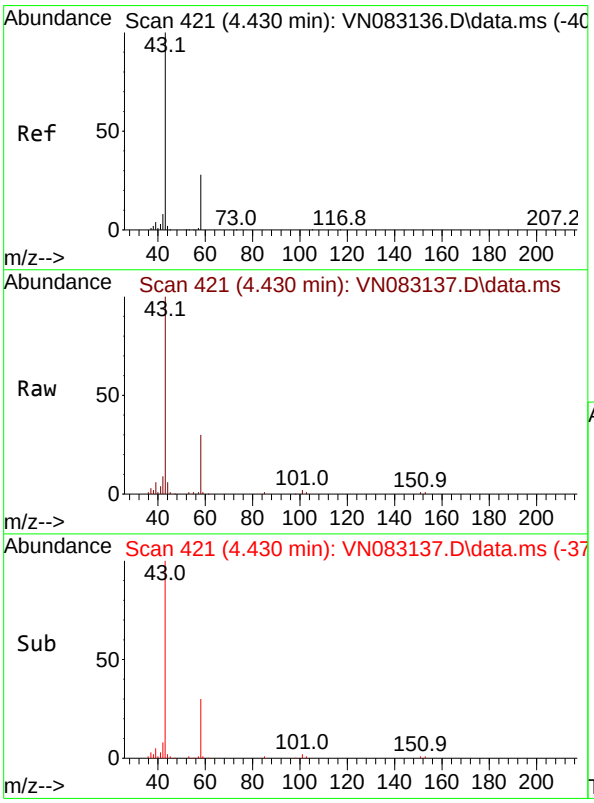
Ion	Ratio	Lower	Upper
53	100		
52	82.1	66.6	100.0
51	37.7	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

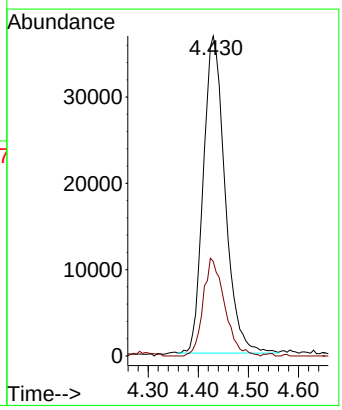
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

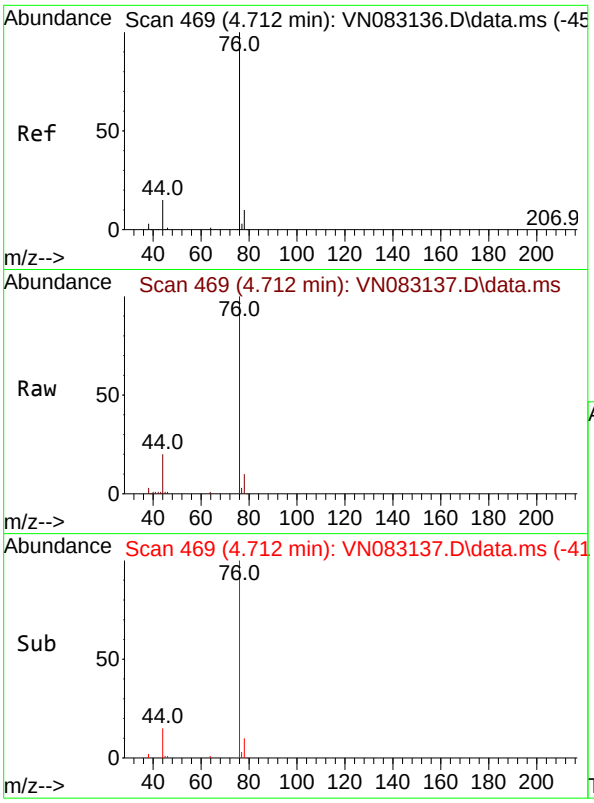


#16
Acetone
Concen: 93.330 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

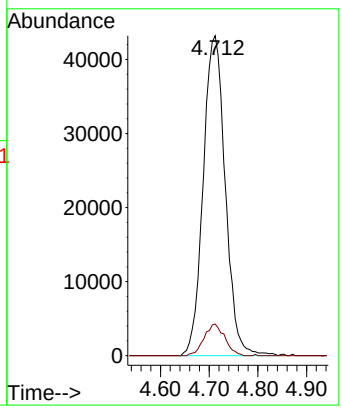
Tgt Ion: 76 Resp: 13592

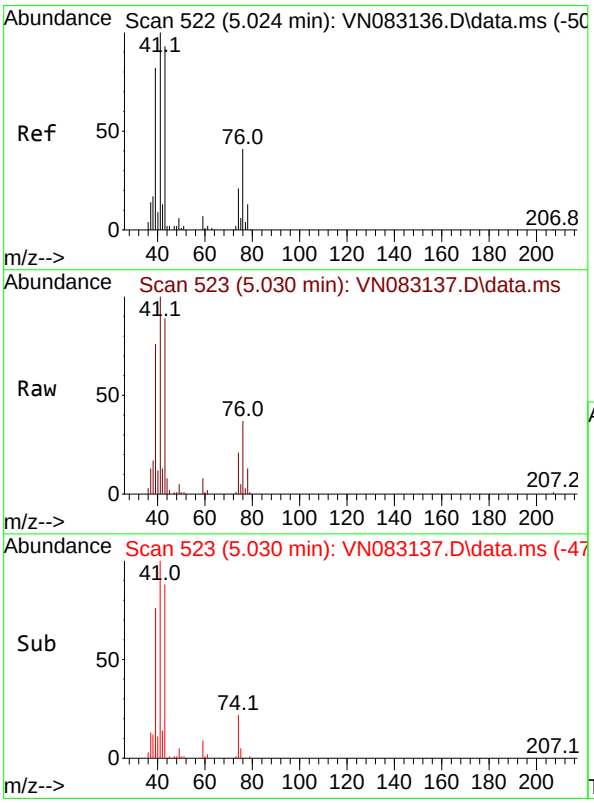
Ion	Ratio	Lower	Upper
76	100		
78	9.9	7.2	10.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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

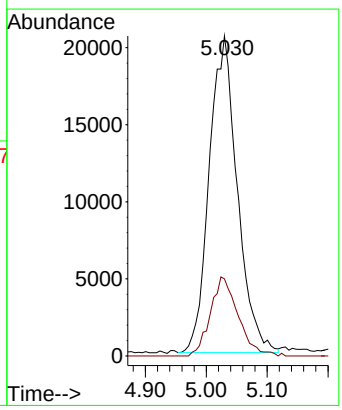


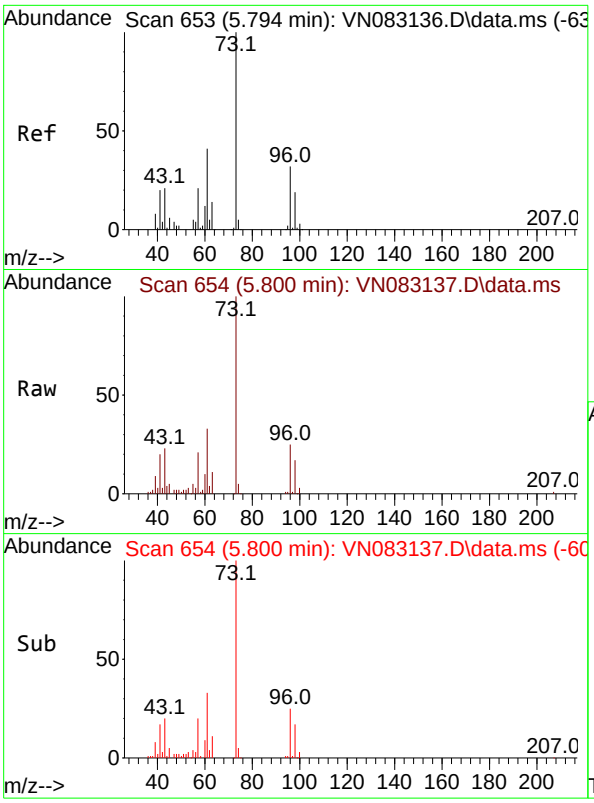


#18
Methyl Acetate
Concen: 18.644 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 43 Resp: 65871

Ion	Ratio	Lower	Upper
43	100		
74	24.5	16.3	24.5#

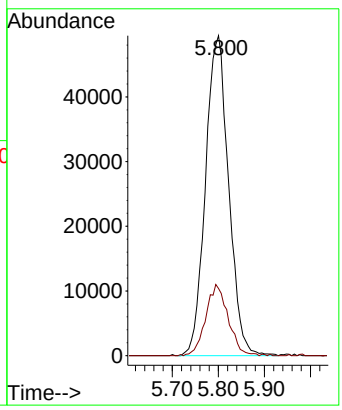




#19
Methyl tert-butyl Ether
Concen: 20.277 ug/l
RT: 5.800 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 73 Resp: 17274

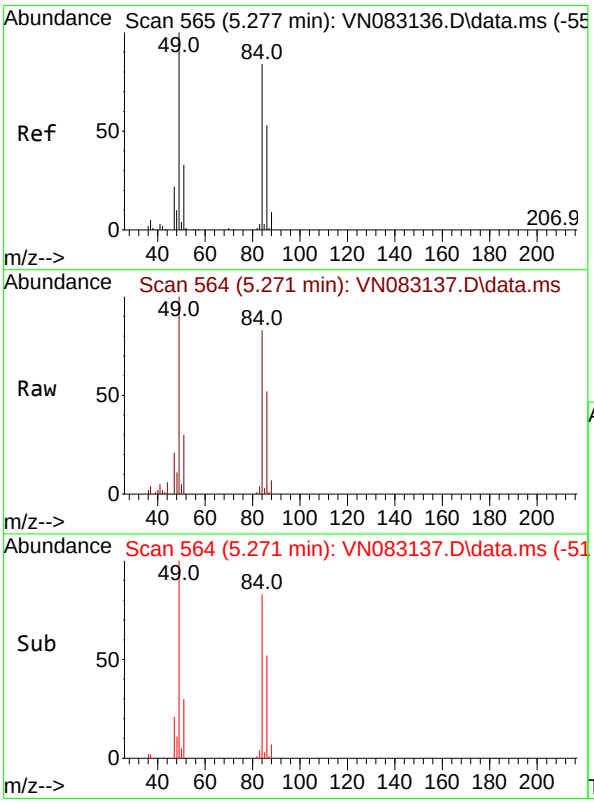
Ion	Ratio	Lower	Upper
73	100		
57	21.0	17.9	26.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

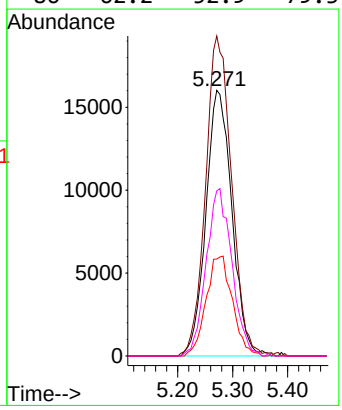
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

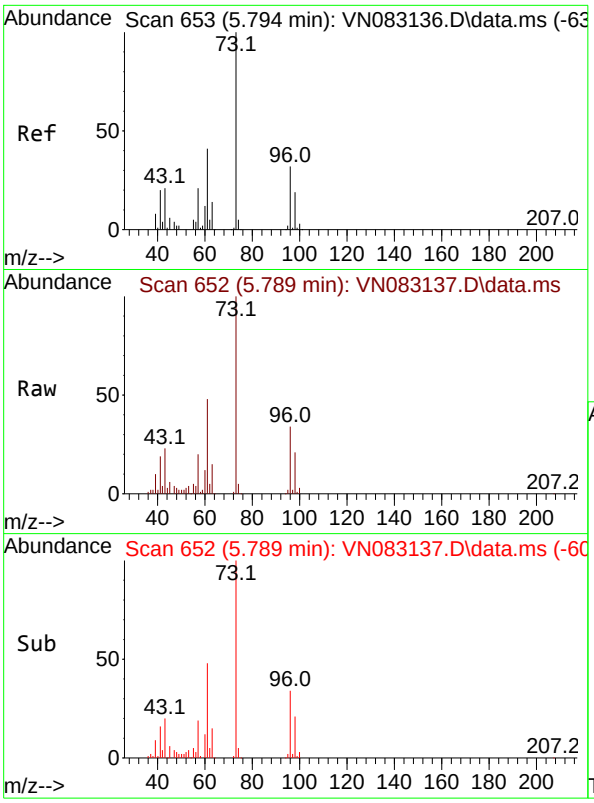


#20
Methylene Chloride
Concen: 19.316 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

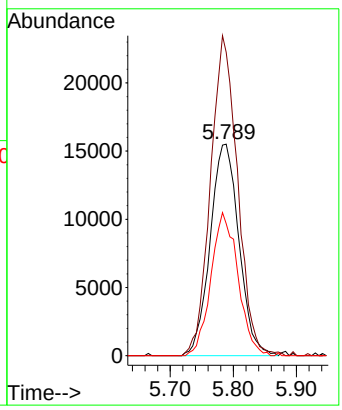




#21
trans-1,2-Dichloroethene
Concen: 20.137 ug/l
RT: 5.789 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 96 Resp: 4912

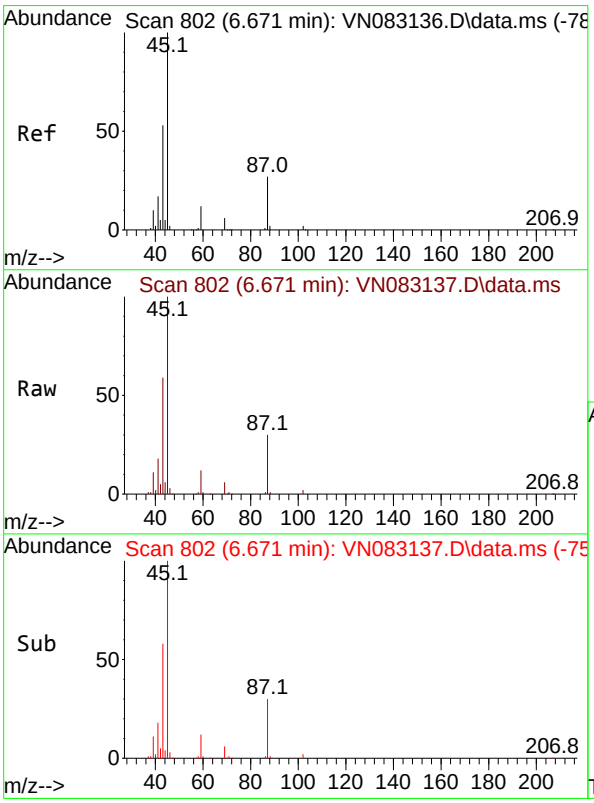
Ion	Ratio	Lower	Upper
96	100		
61	143.3	123.4	185.2
98	62.4	49.3	73.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

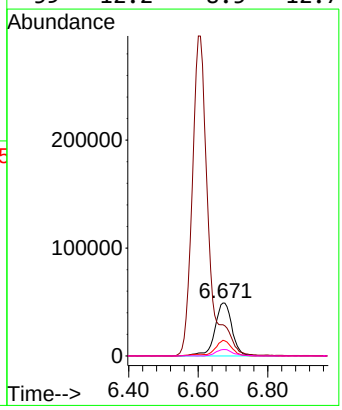
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

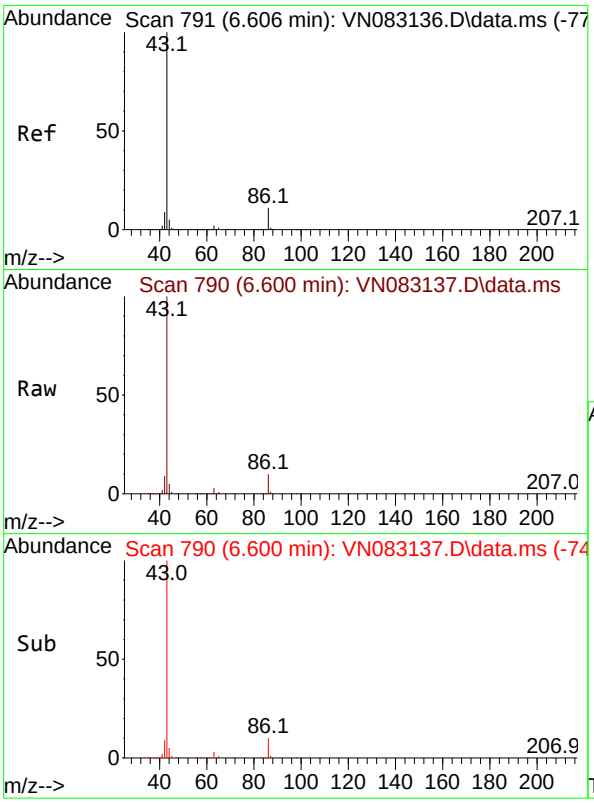


#22
Diisopropyl ether
Concen: 20.070 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

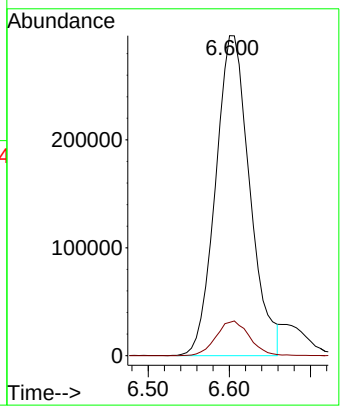




#23
Vinyl Acetate
Concen: 101.401 ug/l m
RT: 6.600 min Scan# 7
Delta R.T. -0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 43 Resp: 87121

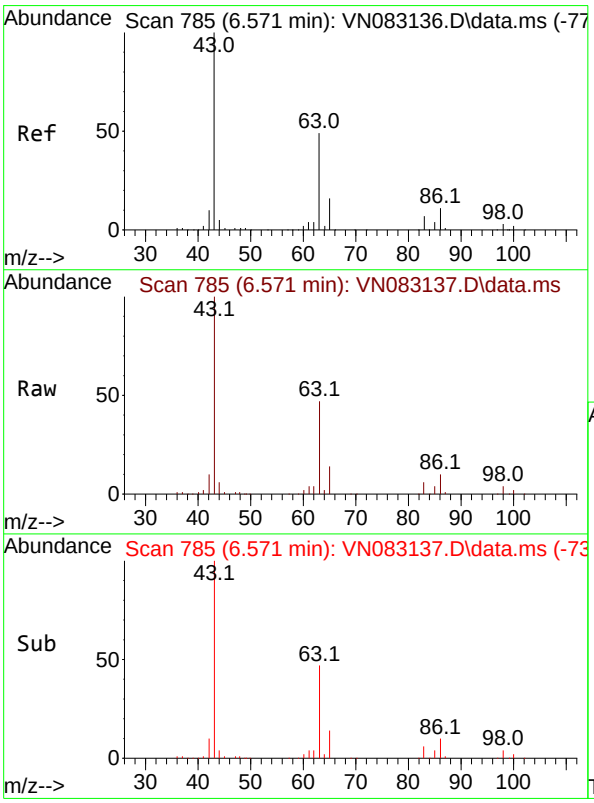
Ion	Ratio	Lower	Upper
43	100		
86	10.4	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

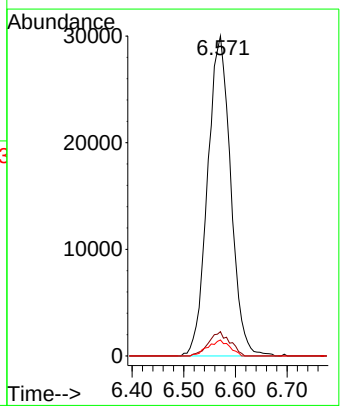
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

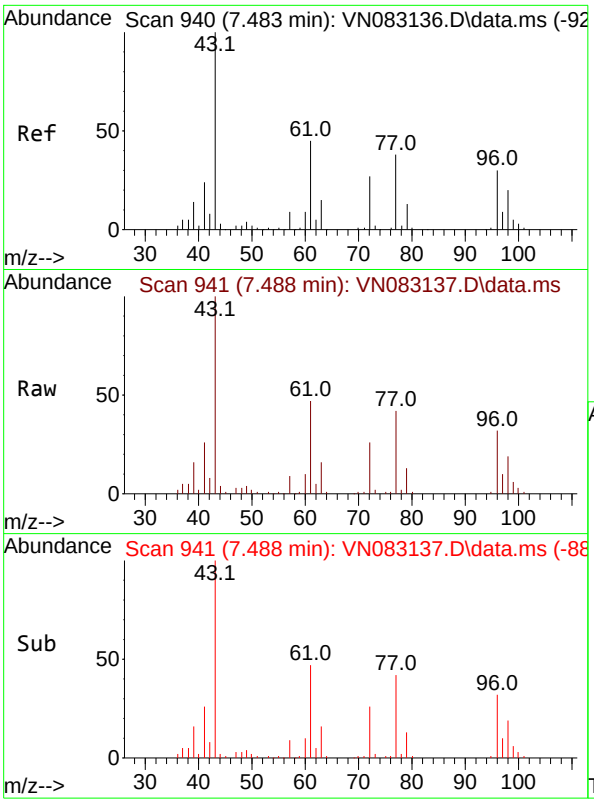


#24
1,1-Dichloroethane
Concen: 20.366 ug/l
RT: 6.571 min Scan# 785
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

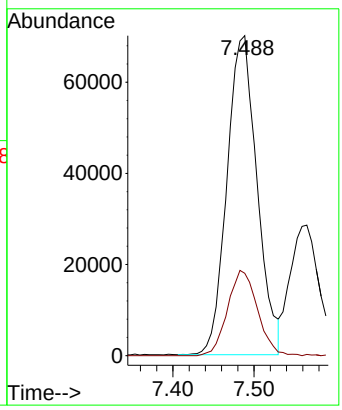




#25
2-Butanone
Concen: 99.107 ug/l
RT: 7.488 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 43 Resp: 18045

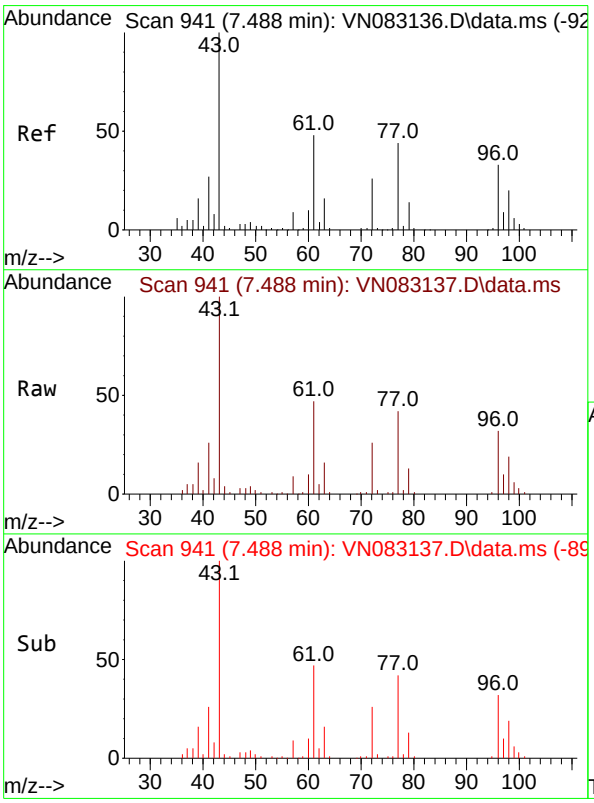
Ion	Ratio	Lower	Upper
43	100		
72	25.9	18.2	27.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

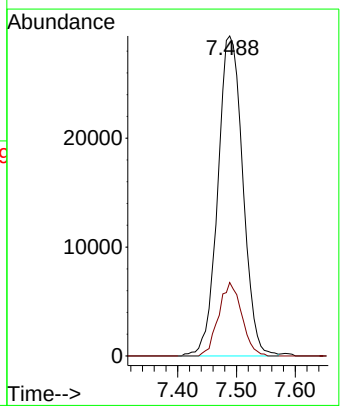
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

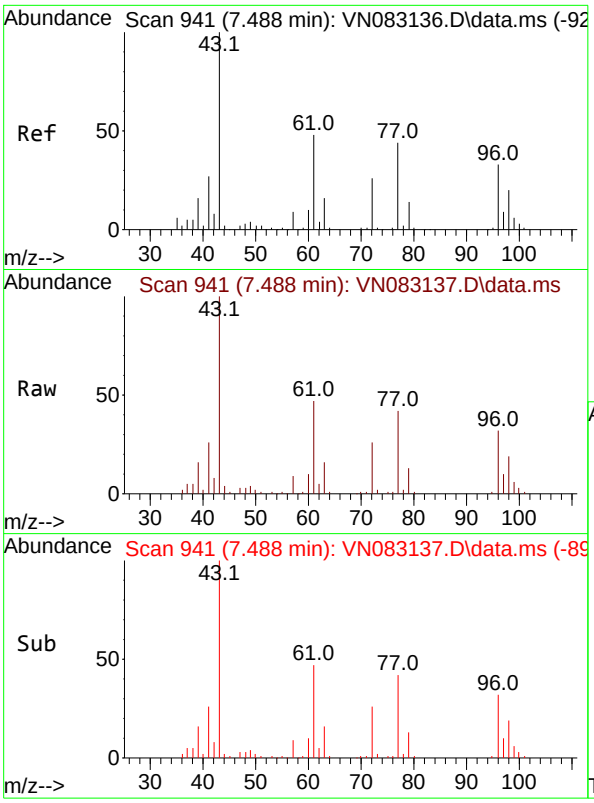


#26
2,2-Dichloropropane
Concen: 20.445 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 77 Resp: 86767

Ion	Ratio	Lower	Upper
77	100		
97	21.3	10.3	30.9

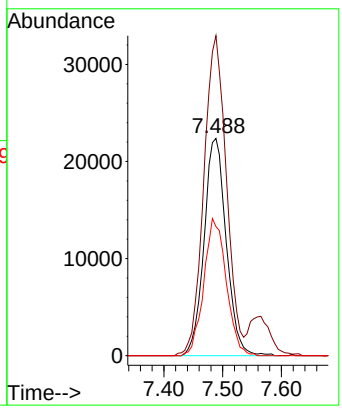




#27
cis-1,2-Dichloroethene
Concen: 19.993 ug/l
RT: 7.488 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 96 Resp: 5885

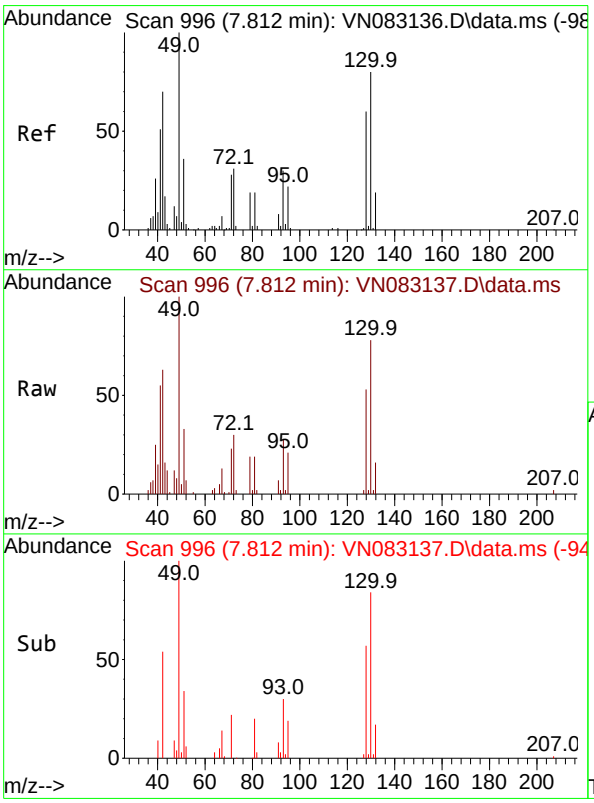
Ion	Ratio	Lower	Upper
96	100		
61	149.6	0.0	329.6
98	63.7	0.0	128.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

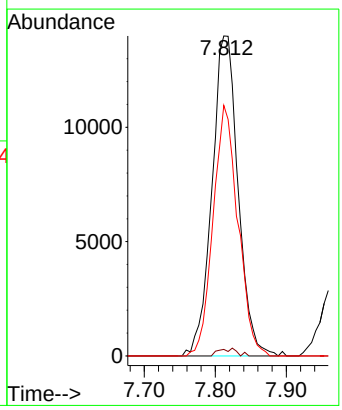
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

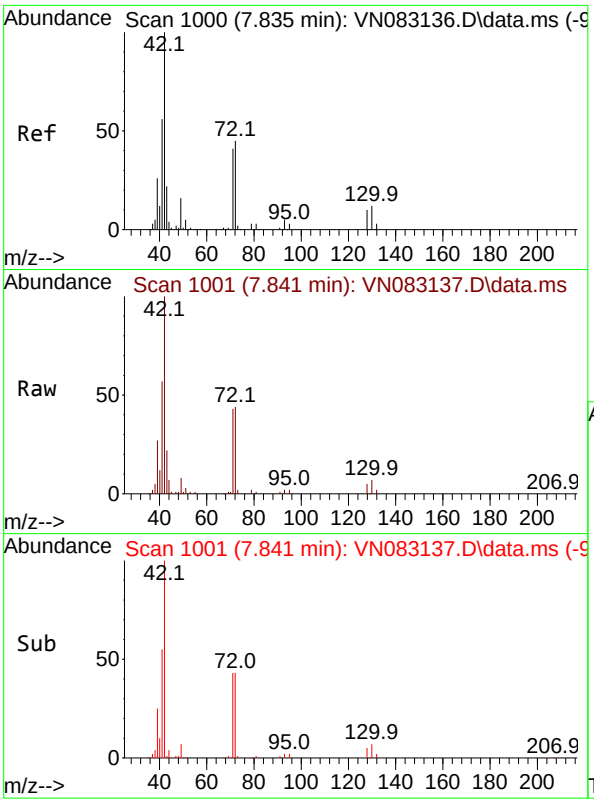


#28
Bromochloromethane
Concen: 19.153 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

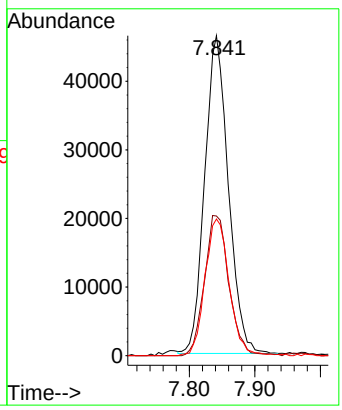




#29
Tetrahydrofuran
Concen: 98.399 ug/l
RT: 7.841 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 42 Resp: 11582

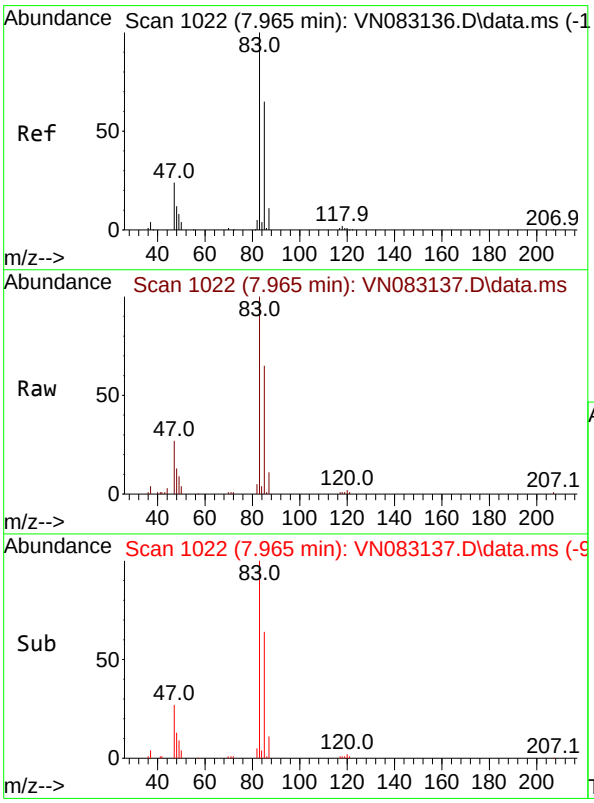
Ion	Ratio	Lower	Upper
42	100		
72	45.8	30.0	45.0#
71	44.0	28.3	42.5#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

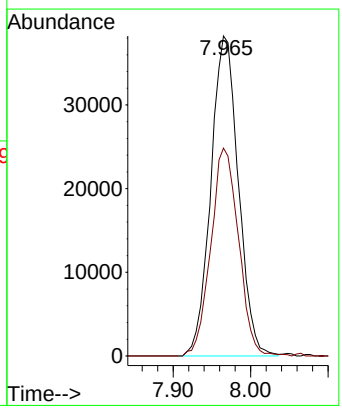
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

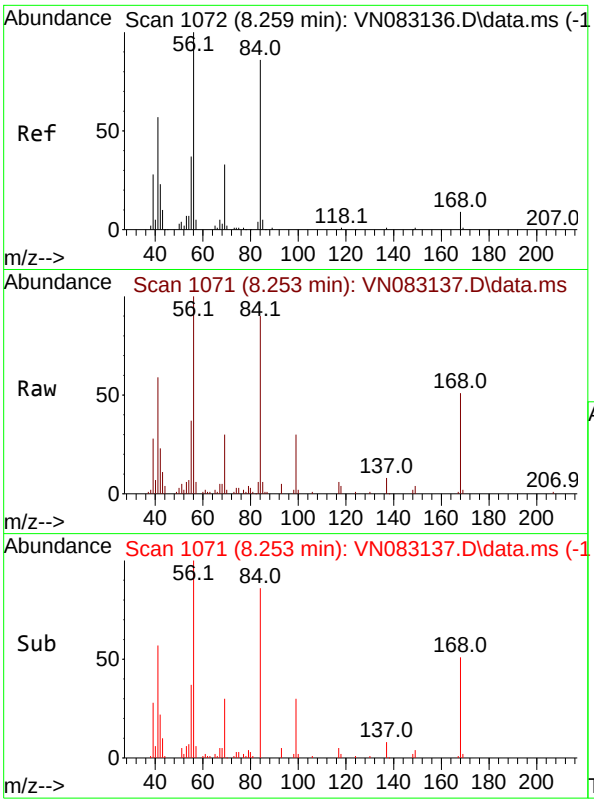


#30
Chloroform
Concen: 19.917 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

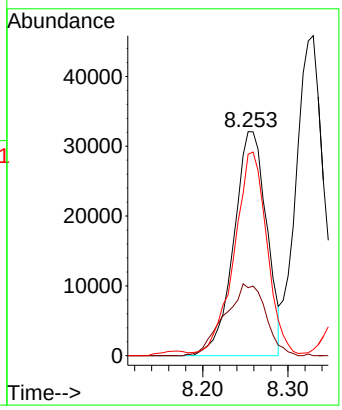
Tgt Ion: 56 Resp: 8597

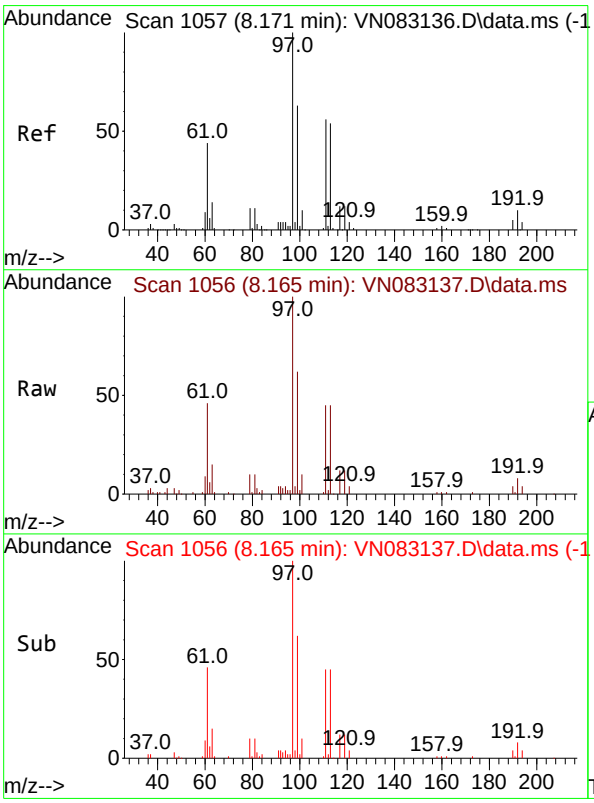
Ion	Ratio	Lower	Upper
56	100		
69	30.4	24.5	36.7
84	87.9	66.0	99.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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

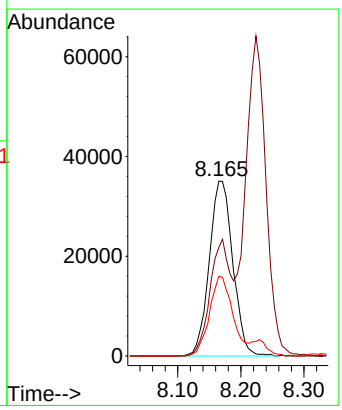


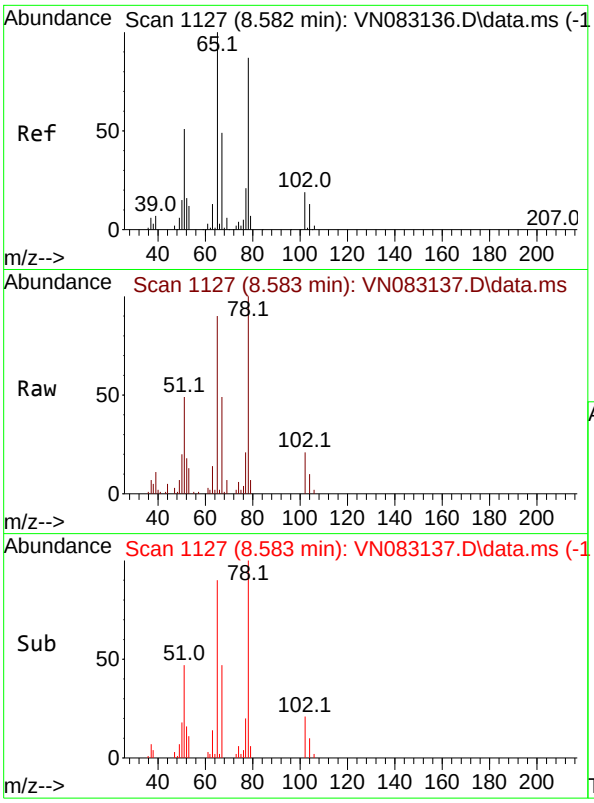


#32
1,1,1-Trichloroethane
Concen: 20.194 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

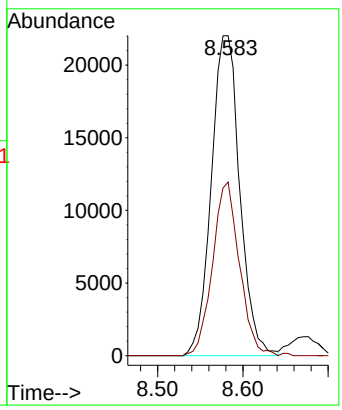




#33
1,2-Dichloroethane-d4
Concen: 16.881 ug/l
RT: 8.583 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 65 Resp: 5115

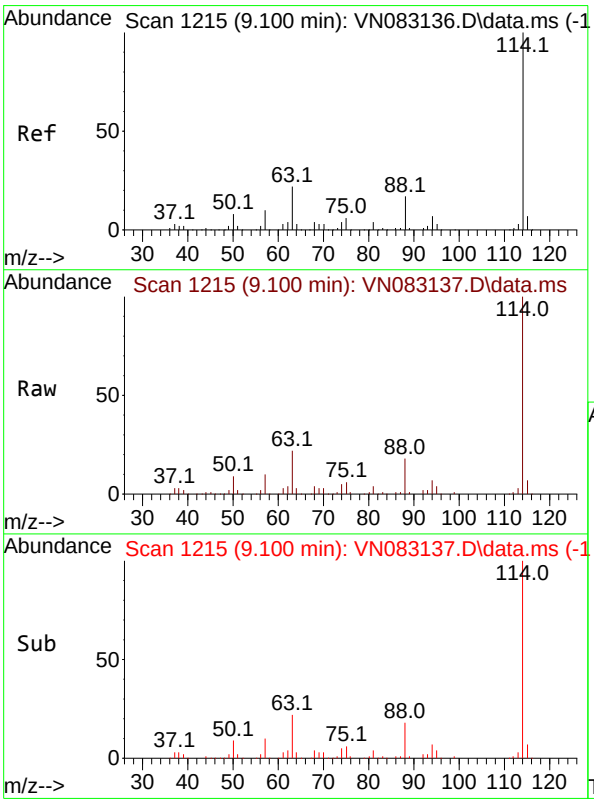
Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	104.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

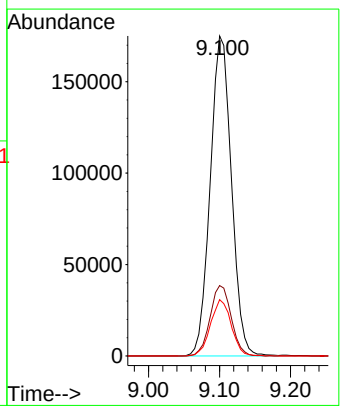
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

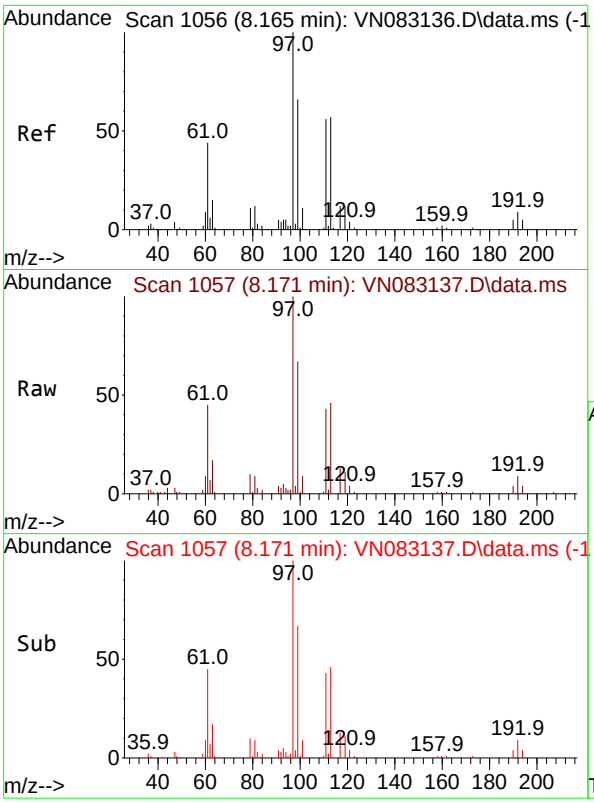


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

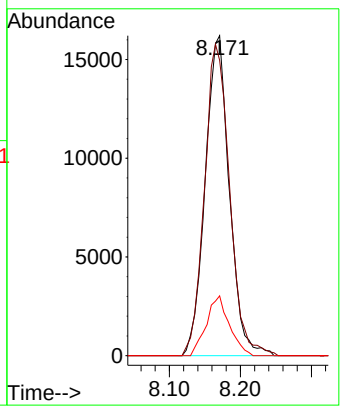




#35
Dibromofluoromethane
Concen: 16.940 ug/l
RT: 8.171 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:113 Resp: 3835

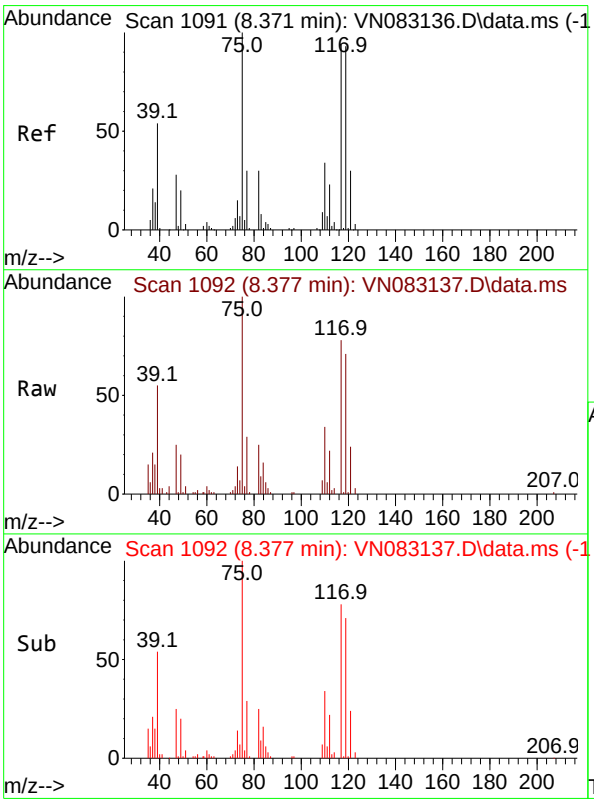
Ion	Ratio	Lower	Upper
113	100		
111	101.3	82.4	123.6
192	17.8	14.9	22.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

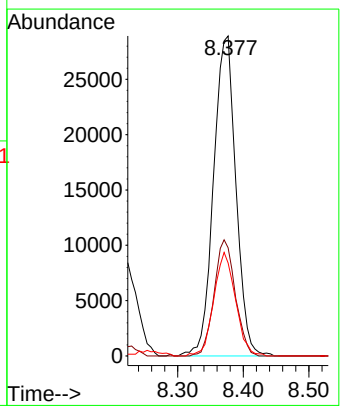
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

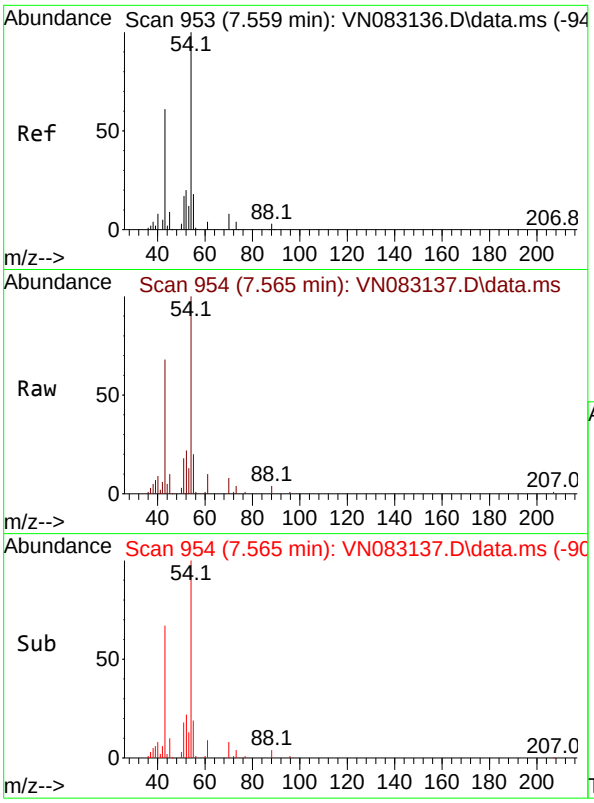


#36
1,1-Dichloropropene
Concen: 19.978 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. 0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

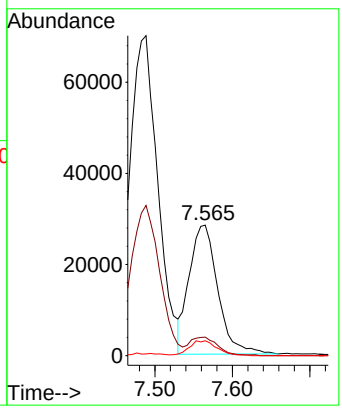
Tgt Ion: 43 Resp: 7280

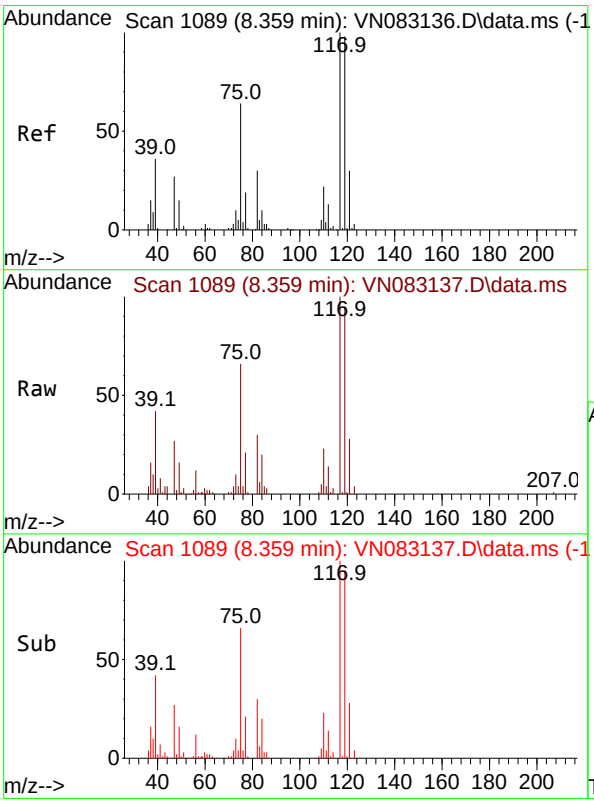
Ion	Ratio	Lower	Upper
43	100		
61	14.3	9.3	13.9#
70	11.2	7.0	10.6#

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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

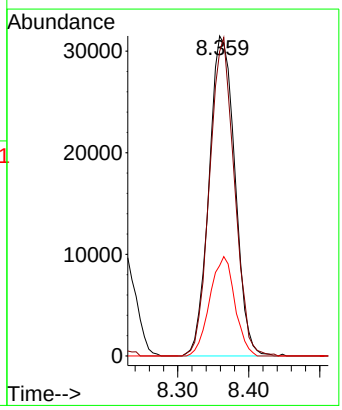


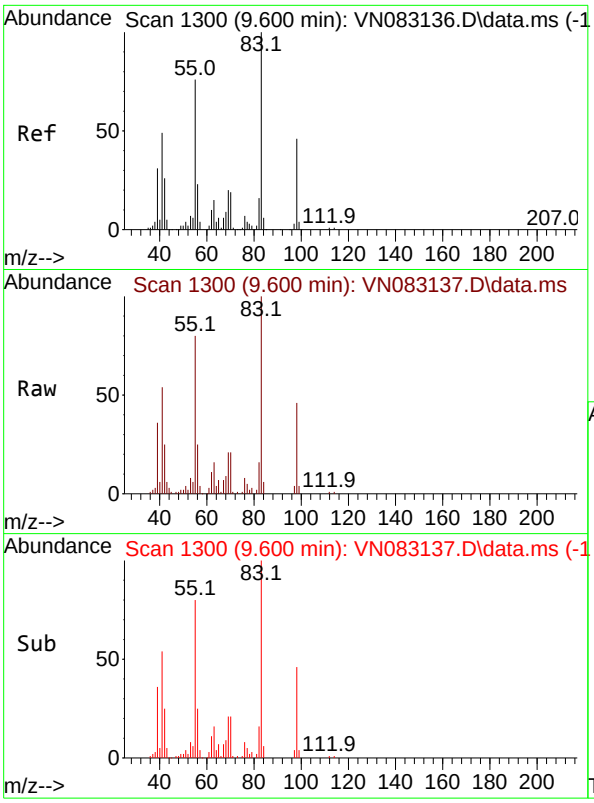


#38
Carbon Tetrachloride
Concen: 20.605 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

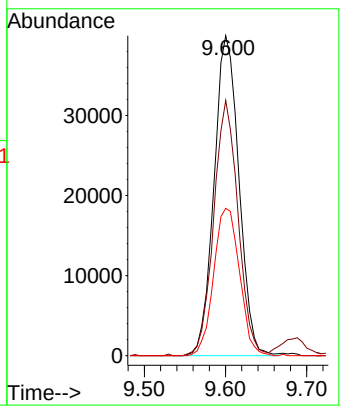




#39
Methylcyclohexane
Concen: 20.246 ug/l
RT: 9.600 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 83 Resp: 8517

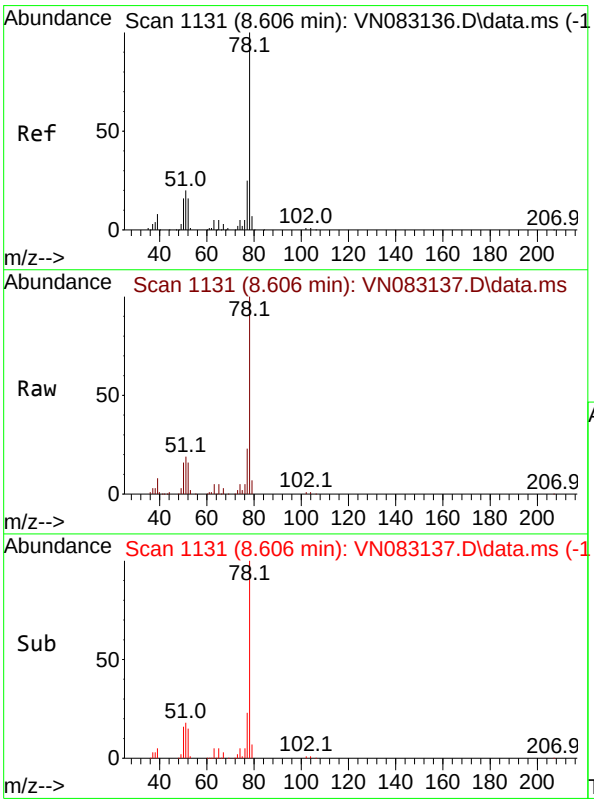
Ion	Ratio	Lower	Upper
83	100		
55	79.7	66.4	99.6
98	46.1	40.7	61.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

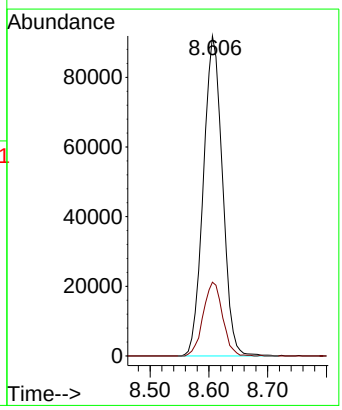
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

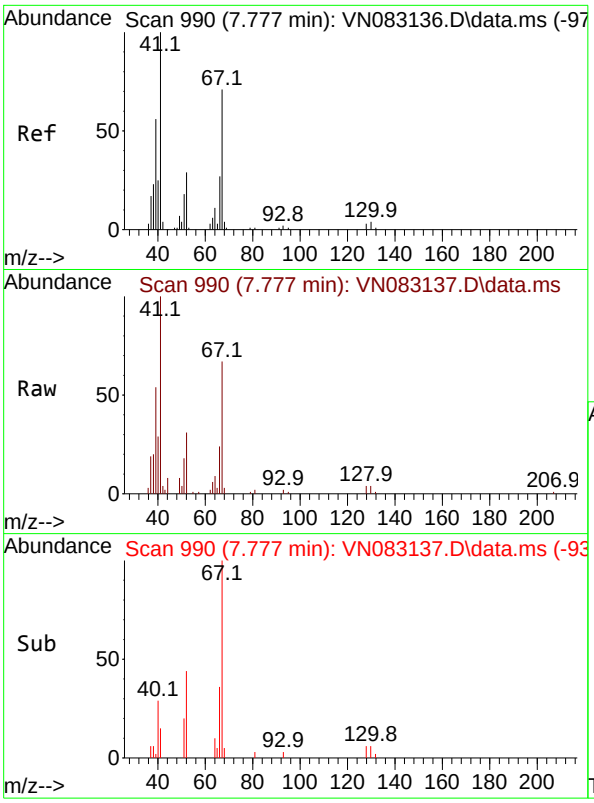


#40
Benzene
Concen: 20.345 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 78 Resp: 207581

Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.0	28.4

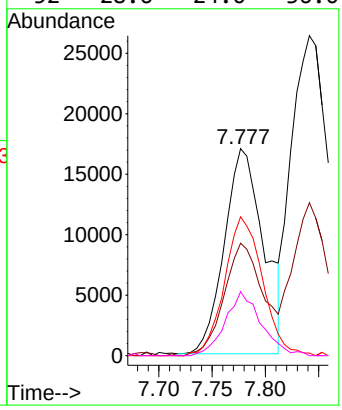




#41
Methacrylonitrile
Concen: 19.968 ug/l
RT: 7.777 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 41 Resp: 4353

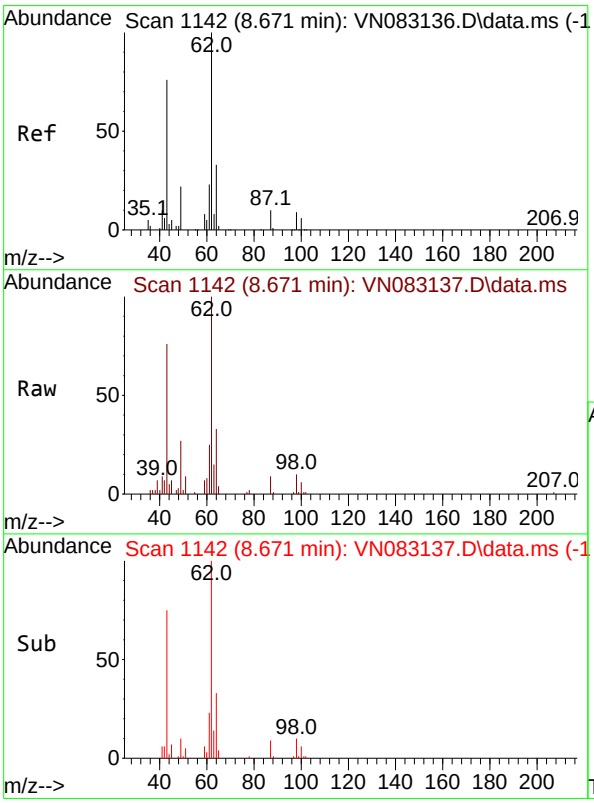
Ion	Ratio	Lower	Upper
41	100		
39	54.6	45.5	68.3
67	65.2	50.5	75.7
52	28.6	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

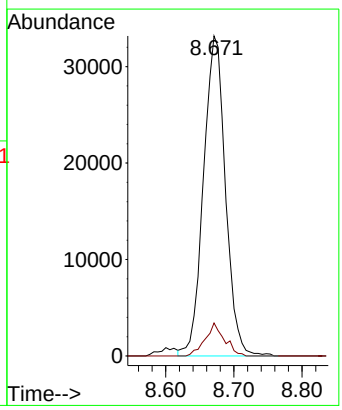
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

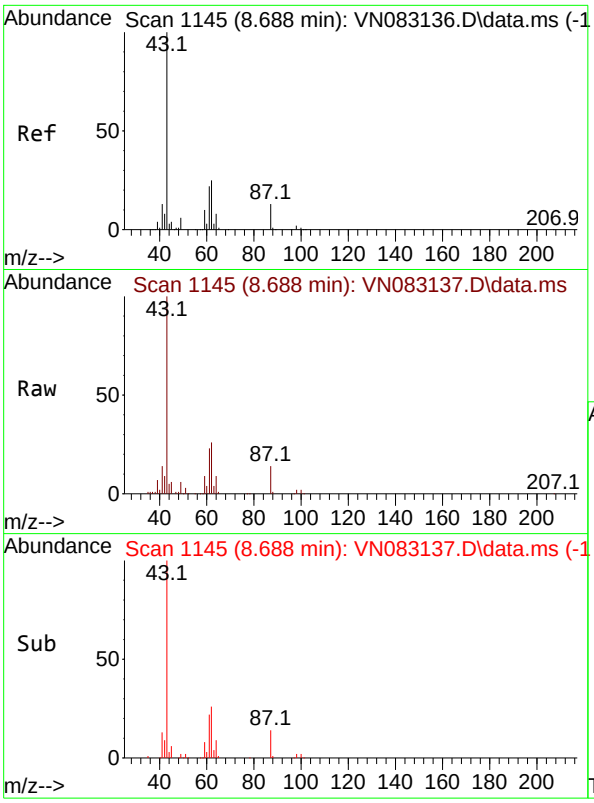


#42
1,2-Dichloroethane
Concen: 20.062 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

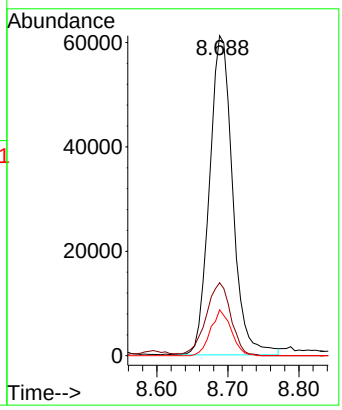
Tgt Ion: 43 Resp: 13871

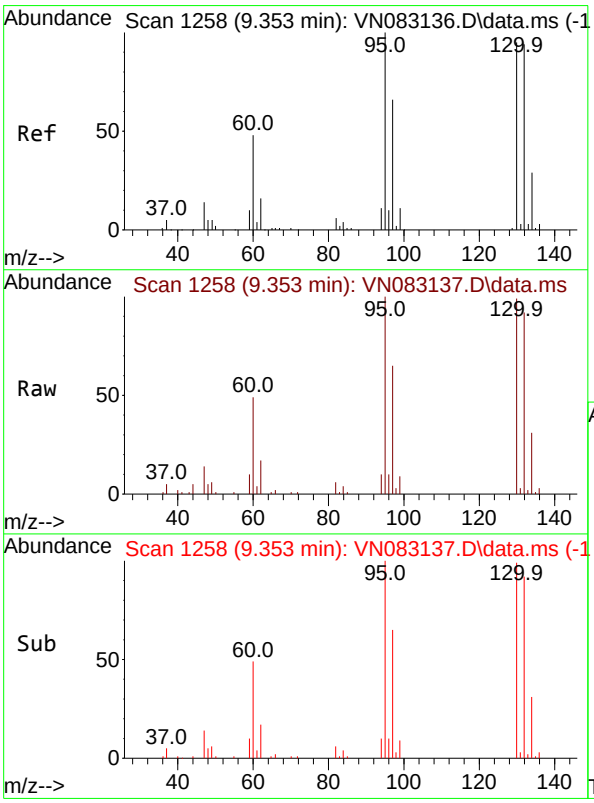
Ion	Ratio	Lower	Upper
43	100		
61	24.5	17.8	26.6
87	12.7	8.2	12.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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

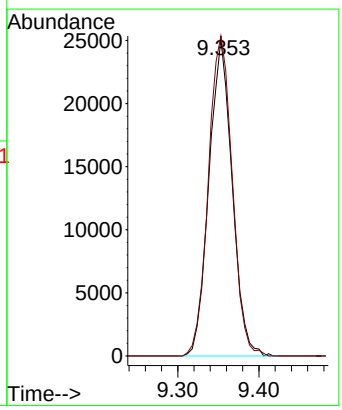


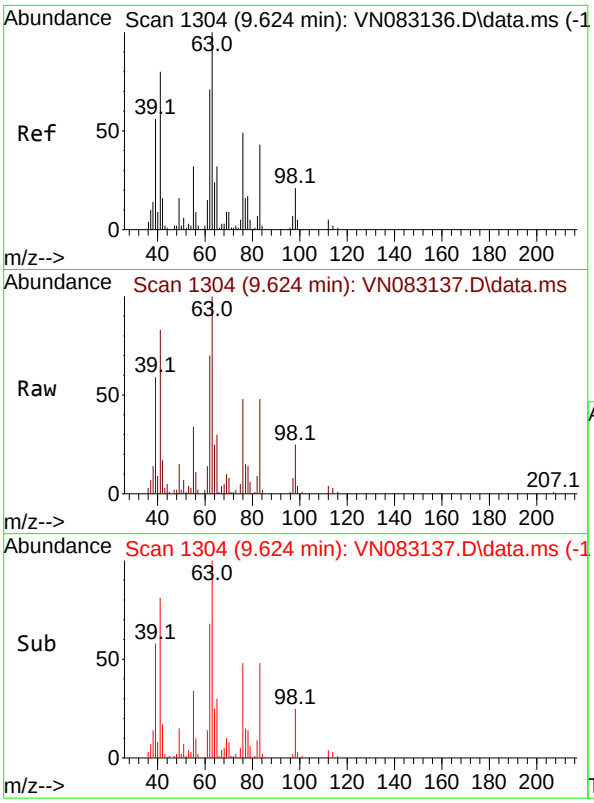


#44
Trichloroethene
Concen: 20.469 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:130 Resp: 49712

Ion	Ratio	Lower	Upper
130	100		
95	101.0	0.0	197.8

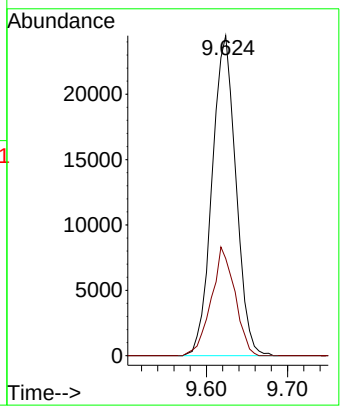




#45
1,2-Dichloropropane
Concen: 20.594 ug/l
RT: 9.624 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 63 Resp: 4987

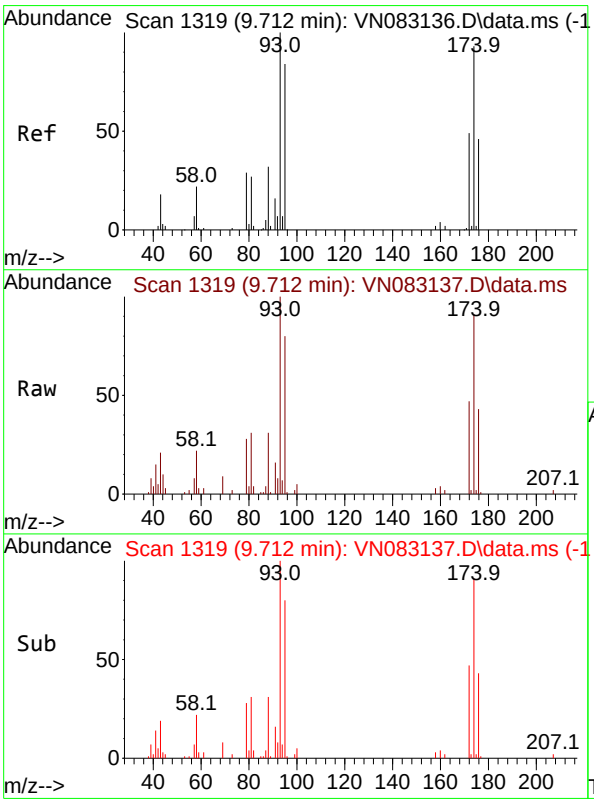
Ion	Ratio	Lower	Upper
63	100		
65	30.4	24.4	36.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

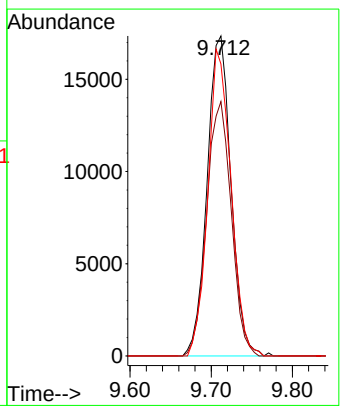
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

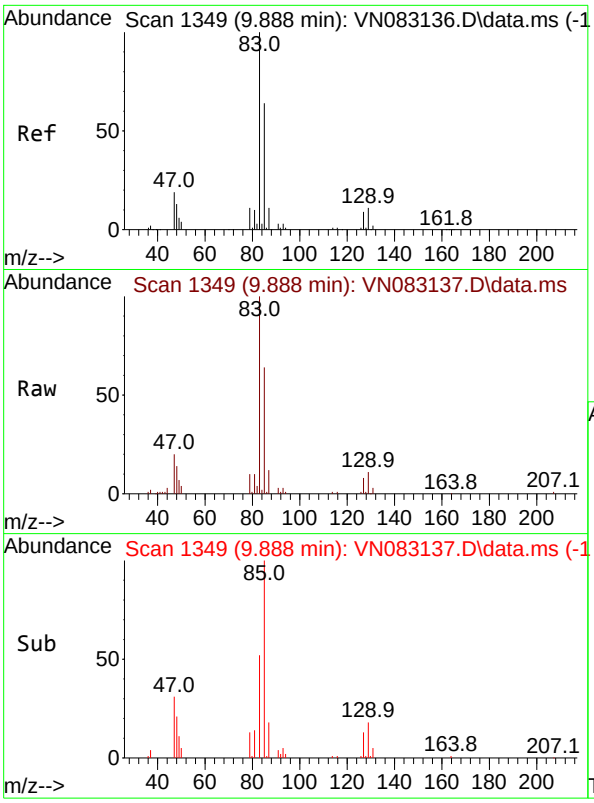


#46
Dibromomethane
Concen: 20.512 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

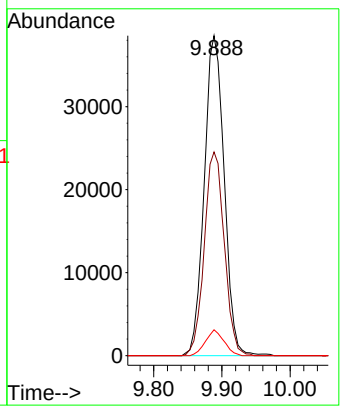




#47
Bromodichloromethane
Concen: 20.147 ug/l
RT: 9.888 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 83 Resp: 7842

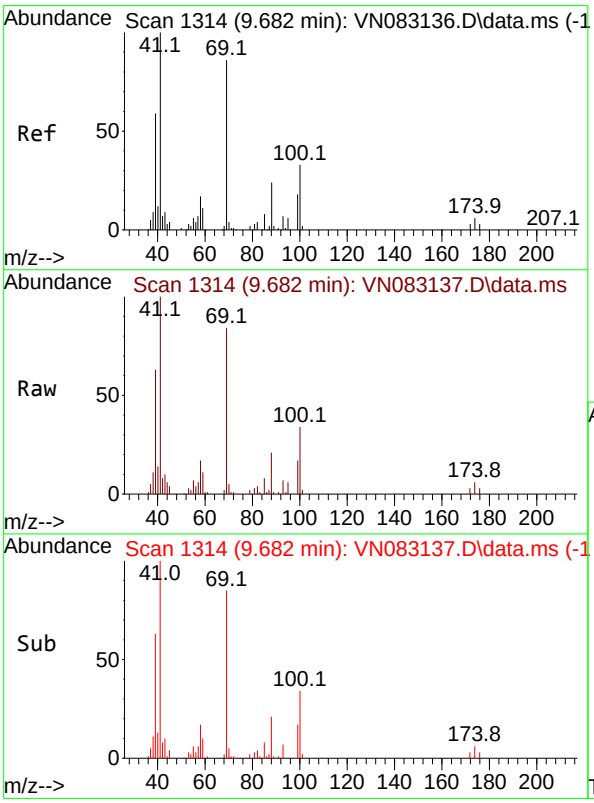
Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.1	76.7
127	8.1	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

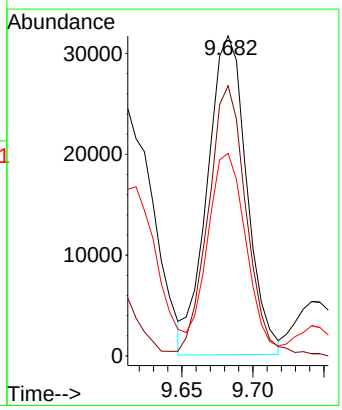
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

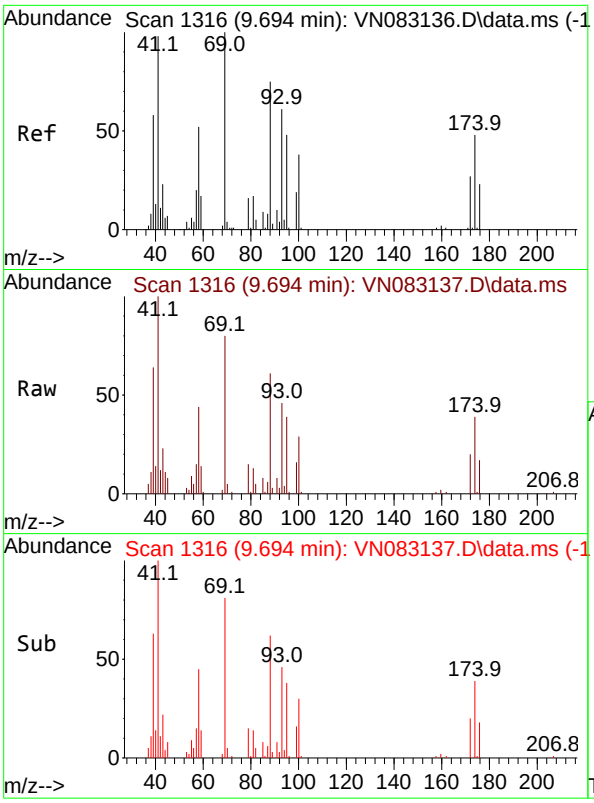


#48
Methyl methacrylate
Concen: 19.254 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

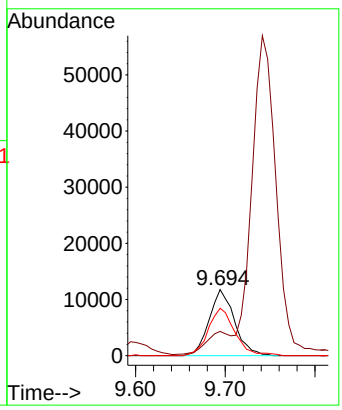




#49
1,4-Dioxane
Concen: 403.558 ug/l
RT: 9.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 88 Resp: 2308

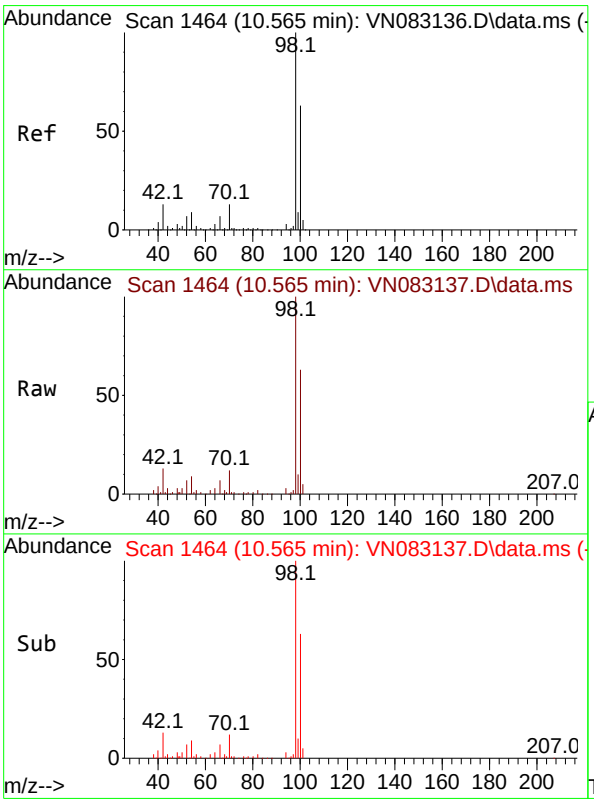
Ion	Ratio	Lower	Upper
88	100		
43	32.7	27.8	41.8
58	75.6	59.4	89.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

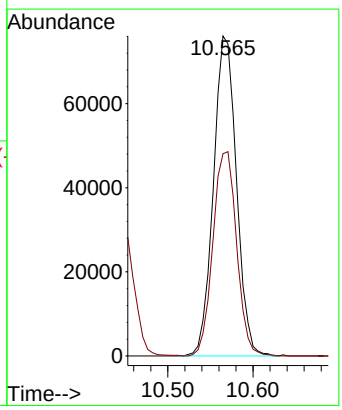
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

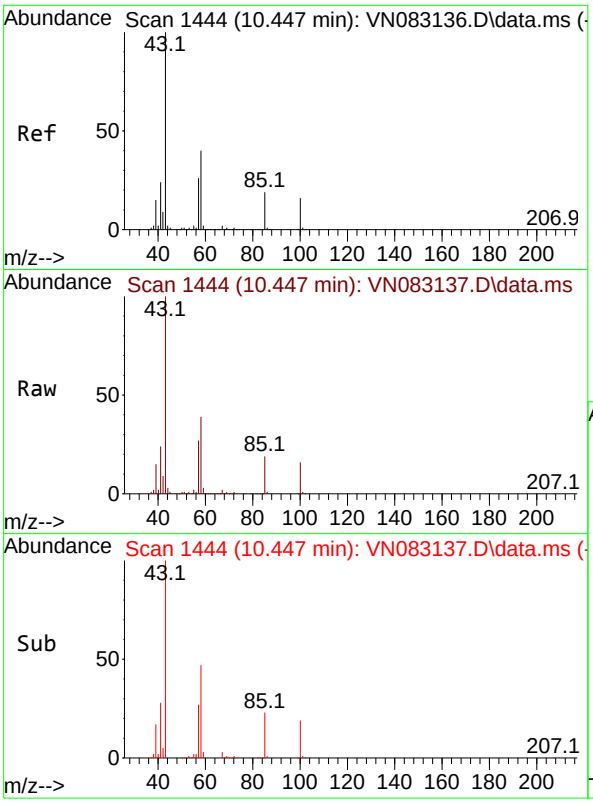


#50
Toluene-d8
Concen: 16.926 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 98 Resp: 142952

Ion	Ratio	Lower	Upper
98	100		
100	65.8	51.5	77.3

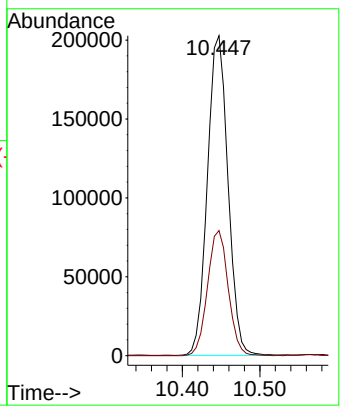




#51
4-Methyl-2-Pentanone
Concen: 103.224 ug/l
RT: 10.447 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 43 Resp: 37433

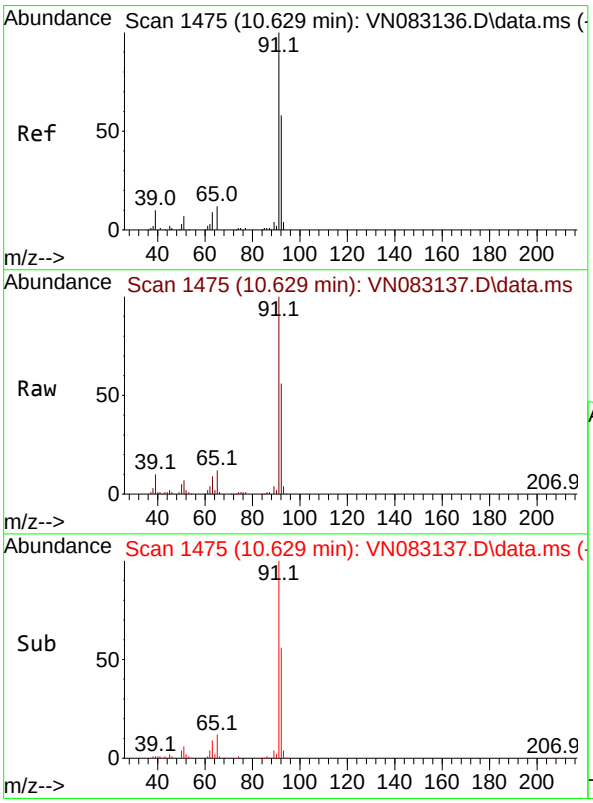
Ion	Ratio	Lower	Upper
43	100		
58	39.4	28.2	42.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

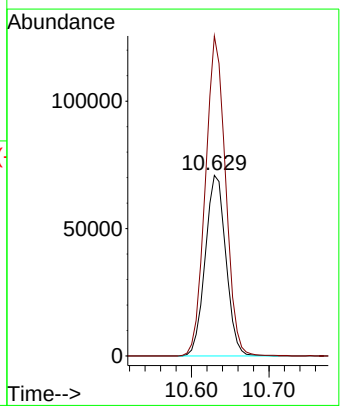
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

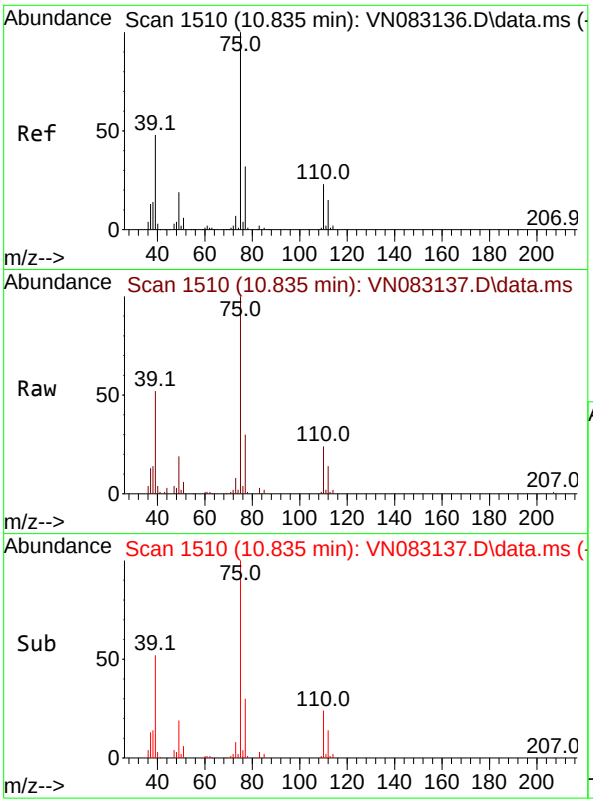


#52
Toluene
Concen: 20.358 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 92 Resp: 131247

Ion	Ratio	Lower	Upper
92	100		
91	173.0	139.4	209.0

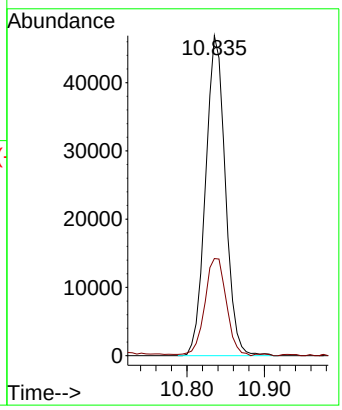




#53
t-1,3-Dichloropropene
Concen: 20.793 ug/l
RT: 10.835 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 75 Resp: 8313

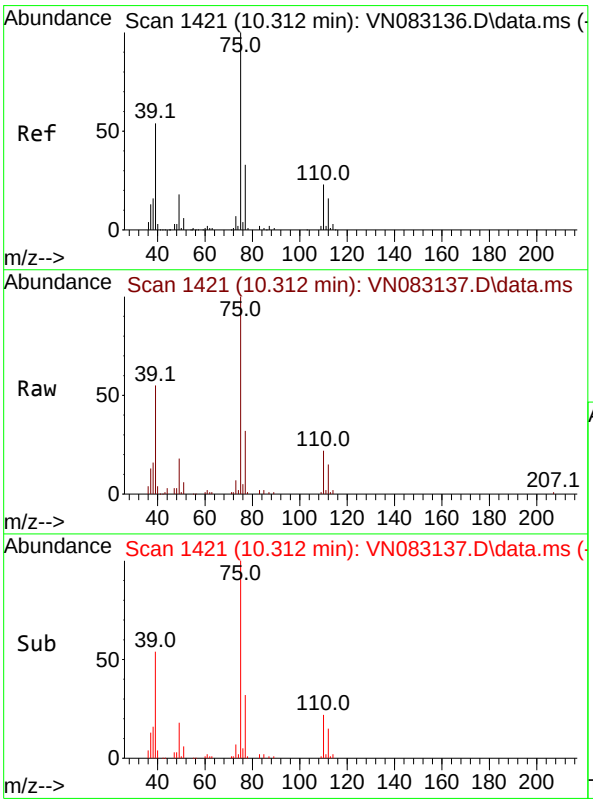
Ion	Ratio	Lower	Upper
75	100		
77	30.4	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

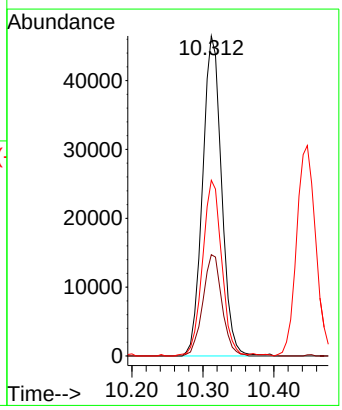
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

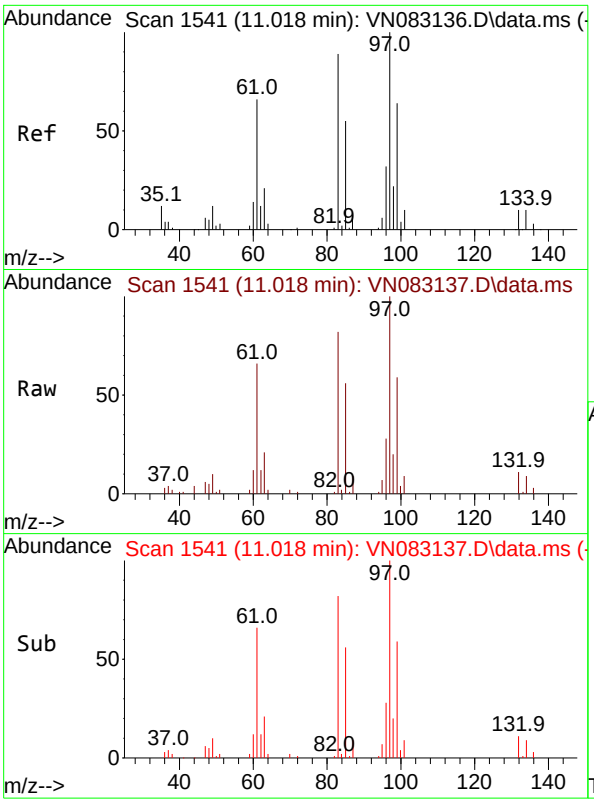


#54
cis-1,3-Dichloropropene
Concen: 20.351 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

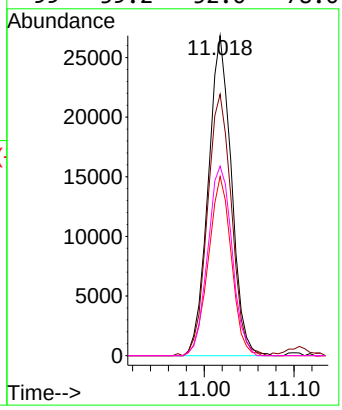




#55
1,1,2-Trichloroethane
Concen: 20.811 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 97 Resp: 4808

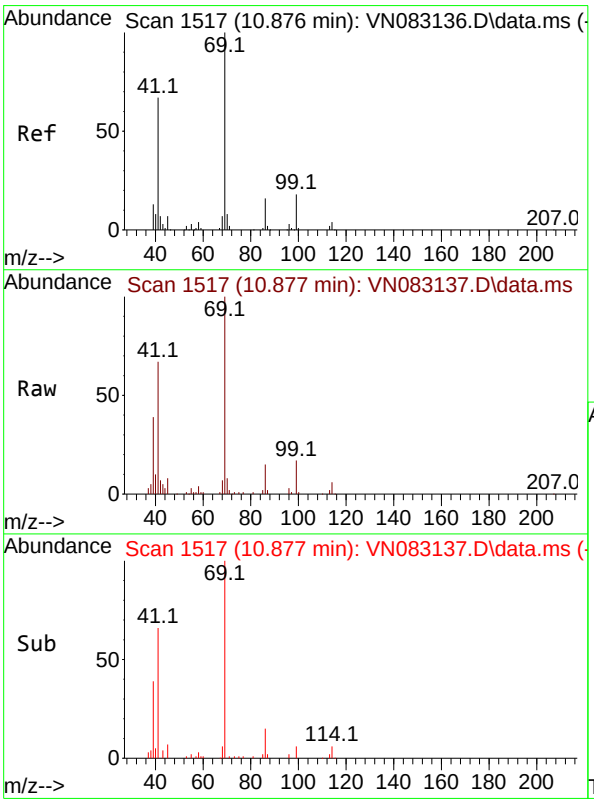
Ion	Ratio	Lower	Upper
97	100		
83	81.1	71.4	107.0
85	56.0	45.8	68.6
99	59.2	52.0	78.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

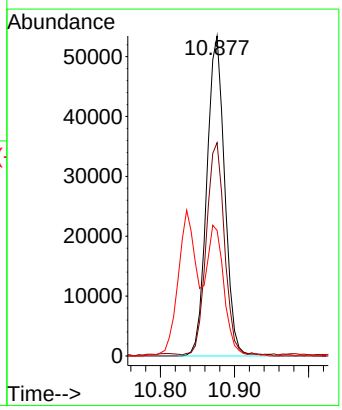
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

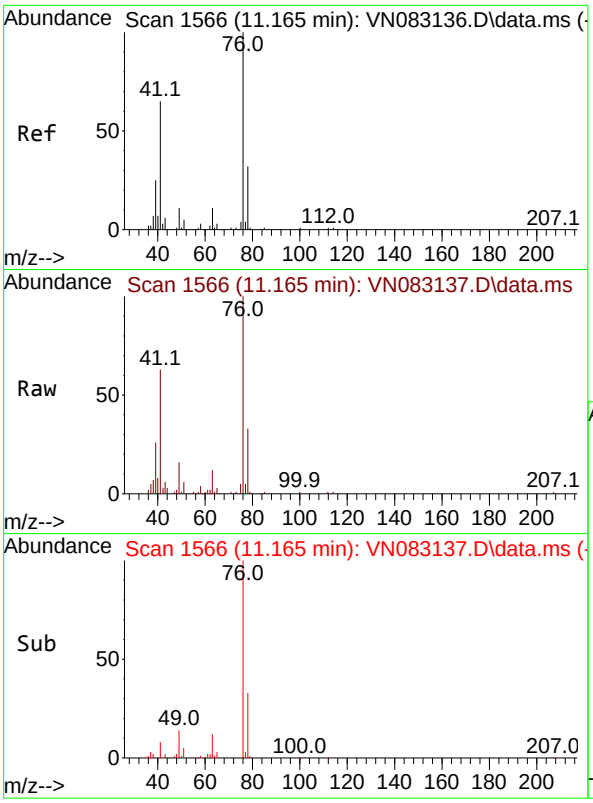


#56
Ethyl methacrylate
Concen: 20.550 ug/l
RT: 10.877 min Scan# 1517
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

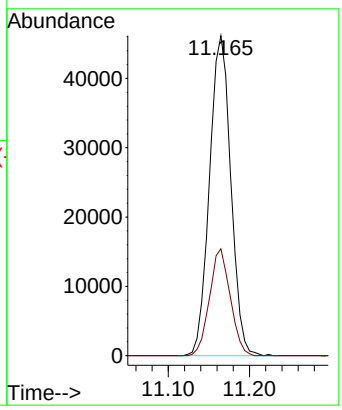




#57
1,3-Dichloropropane
Concen: 20.464 ug/l
RT: 11.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 76 Resp: 8427

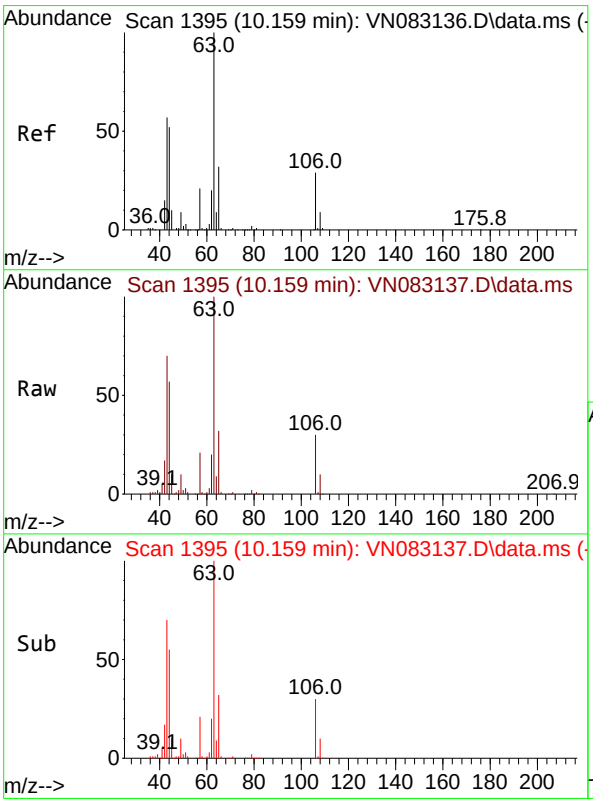
Ion	Ratio	Lower	Upper
76	100		
78	32.5	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

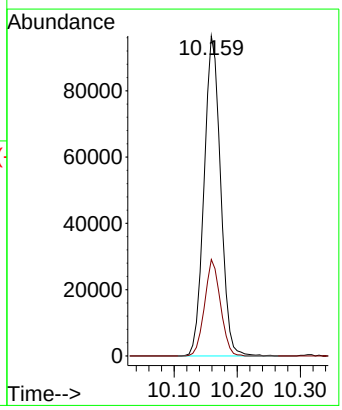
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

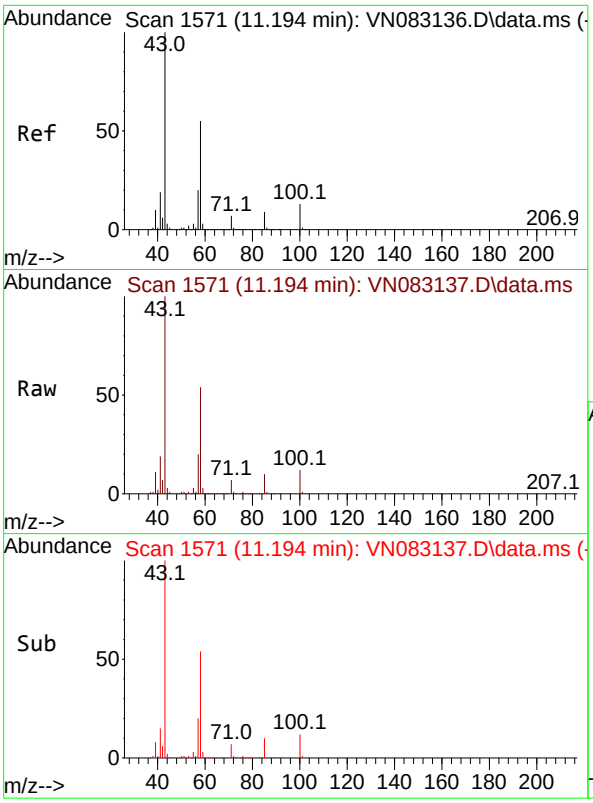


#58
2-Chloroethyl Vinyl ether
Concen: 95.242 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

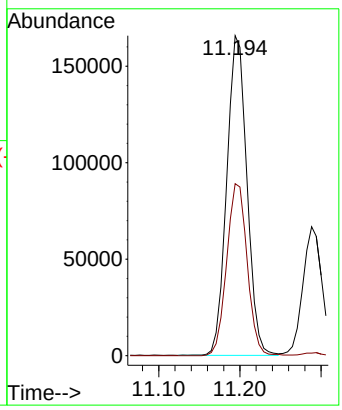
Tgt Ion: 43 Resp: 28622

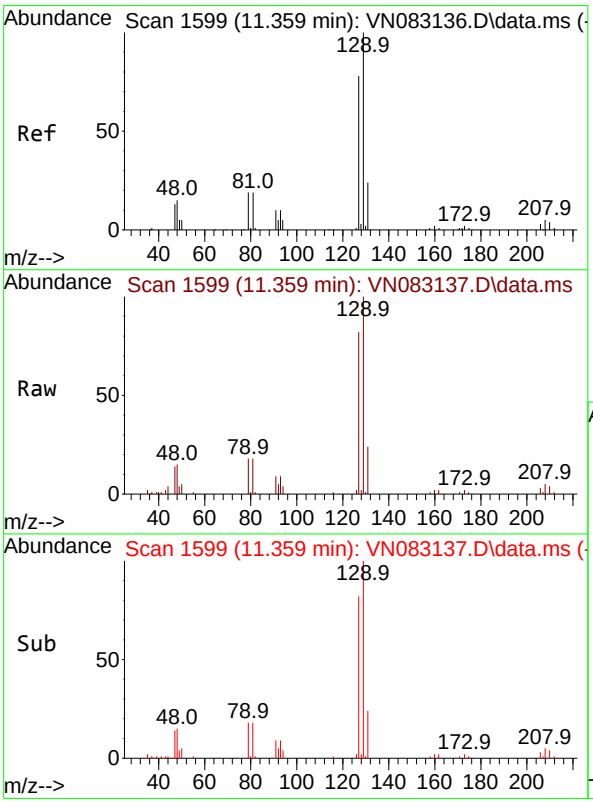
Ion	Ratio	Lower	Upper
43	100		
58	54.7	24.6	73.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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

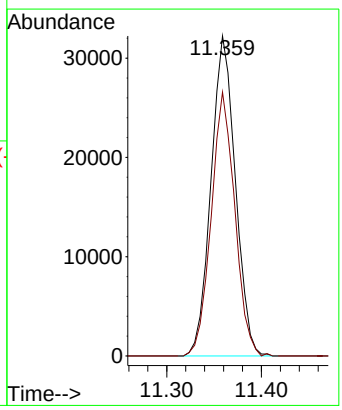


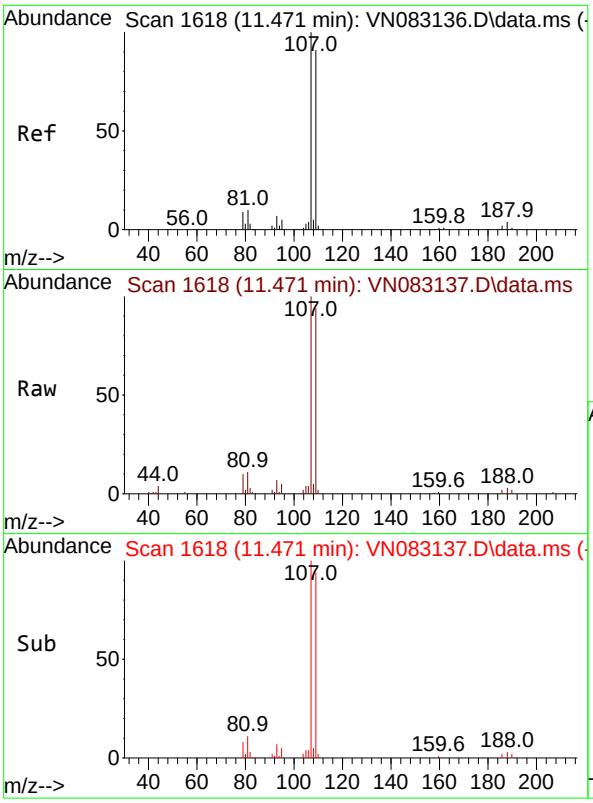


#60
Dibromochloromethane
Concen: 20.610 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:129 Resp: 57571

Ion	Ratio	Lower	Upper
129	100		
127	79.9	39.2	117.6

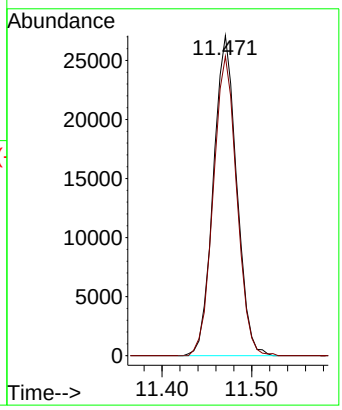




#61
1,2-Dibromoethane
Concen: 20.088 ug/l
RT: 11.471 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:107 Resp: 4875

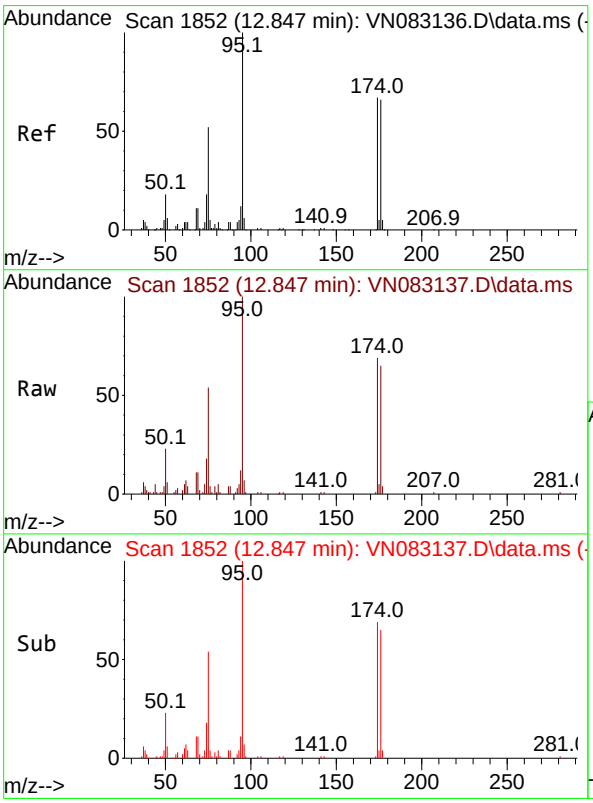
Ion	Ratio	Lower	Upper
107	100		
109	94.4	73.7	110.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

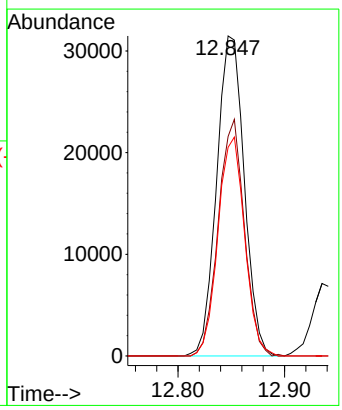
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

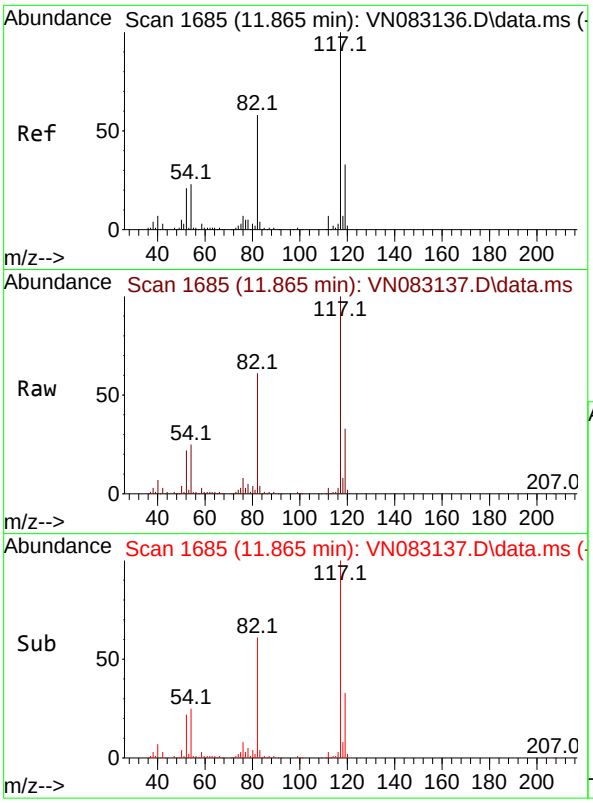


#62
4-Bromofluorobenzene
Concen: 17.179 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

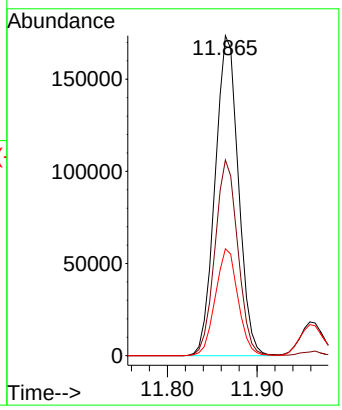




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:117 Resp: 31325

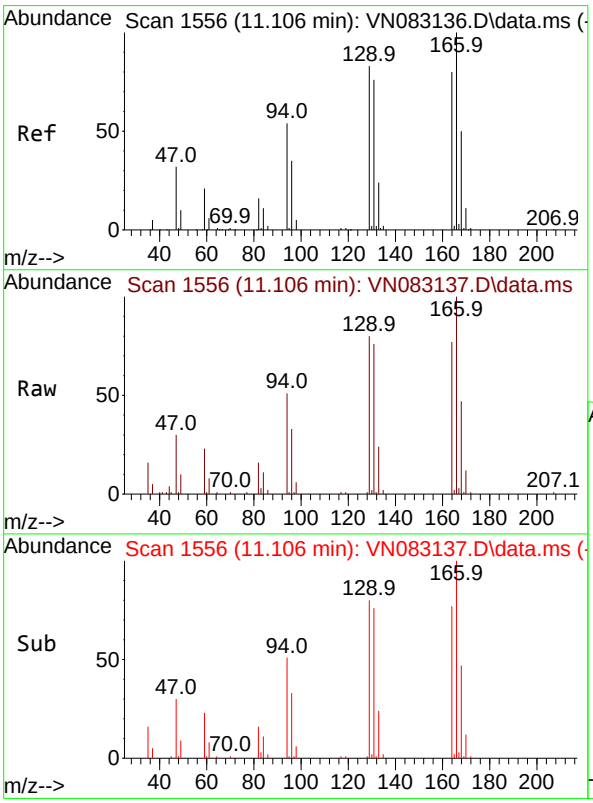
Ion	Ratio	Lower	Upper
117	100		
82	61.1	47.5	71.3
119	33.4	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

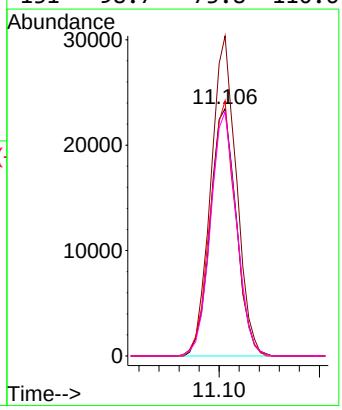
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

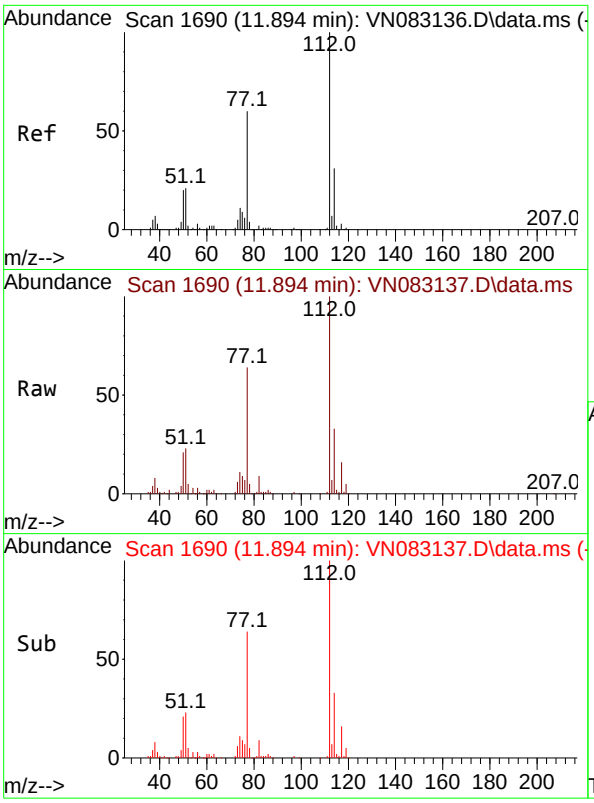


#64
Tetrachloroethene
Concen: 20.405 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

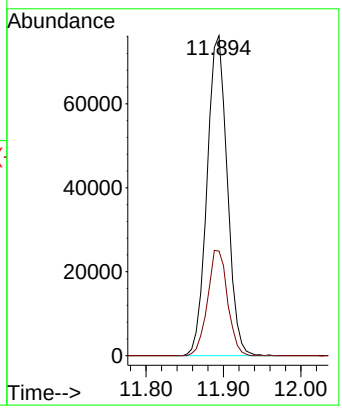




#65
Chlorobenzene
Concen: 19.933 ug/l
RT: 11.894 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:112 Resp: 13798

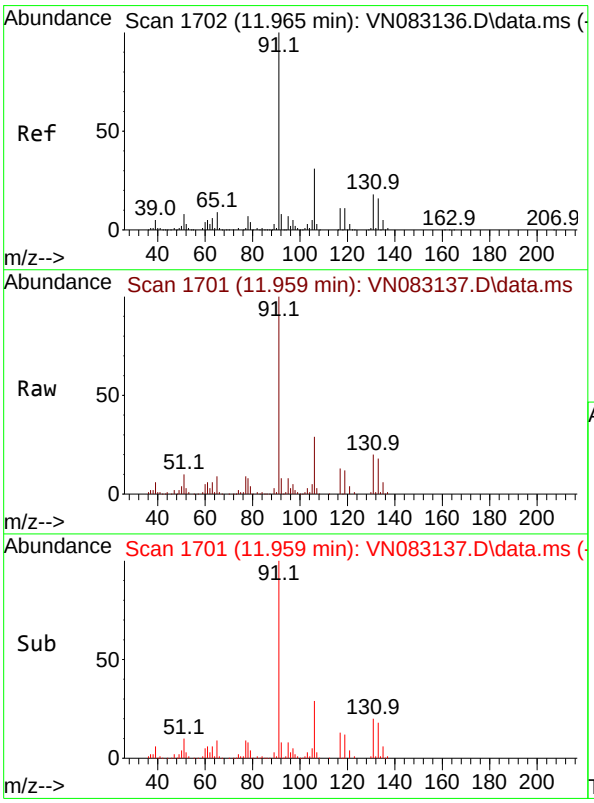
Ion	Ratio	Lower	Upper
112	100		
114	32.7	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

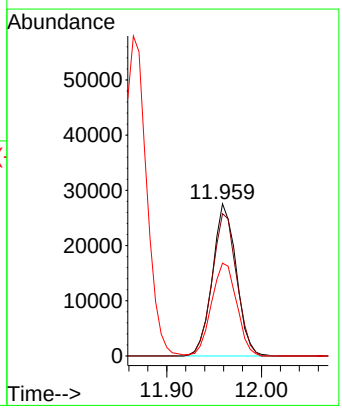
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

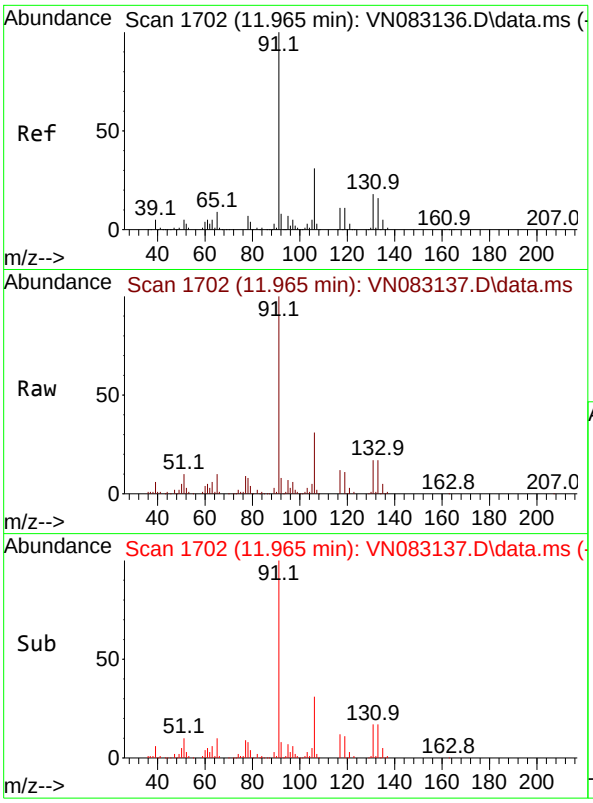


#66
1,1,1,2-Tetrachloroethane
Concen: 19.762 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

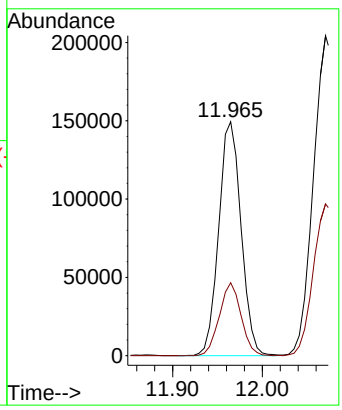




#67
Ethyl Benzene
Concen: 20.335 ug/l
RT: 11.965 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 91 Resp: 25823

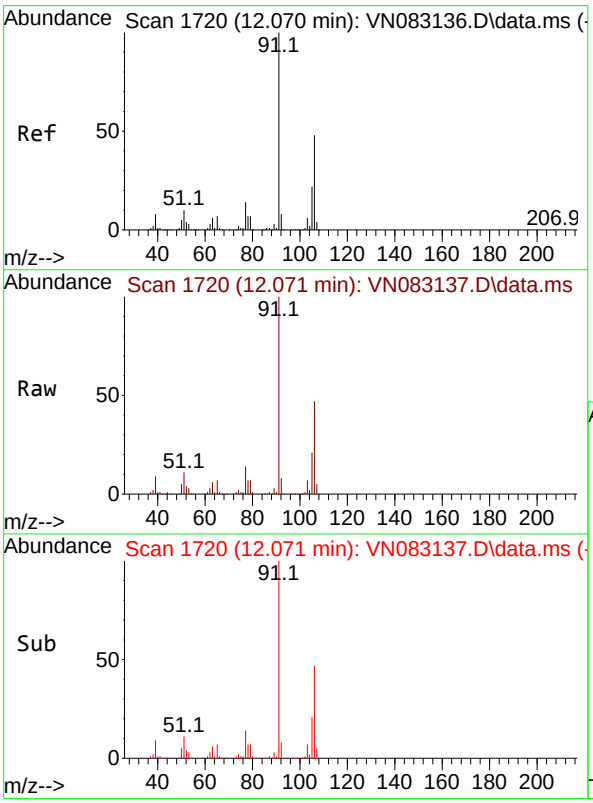
Ion	Ratio	Lower	Upper
91	100		
106	31.2	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

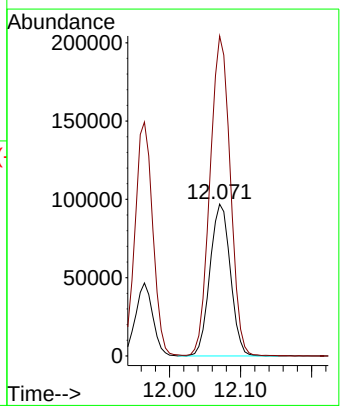
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

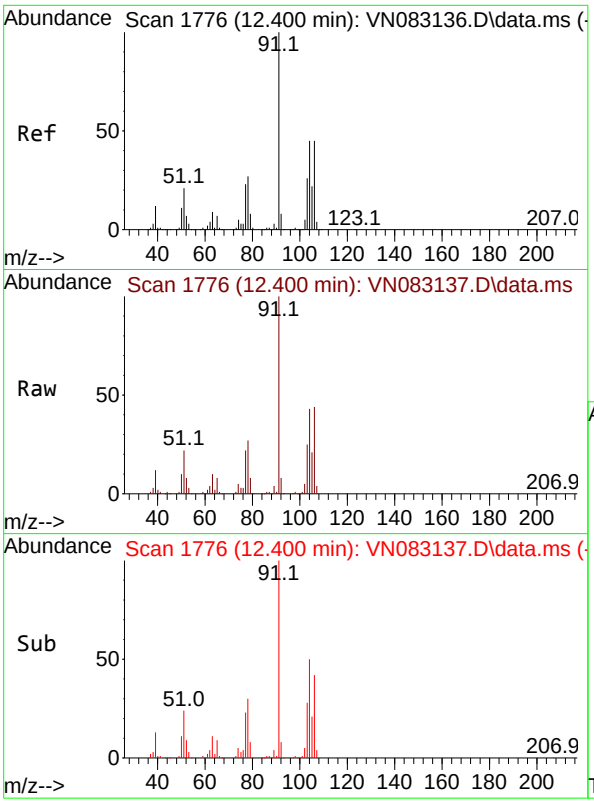


#68
m/p-Xylenes
Concen: 40.625 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

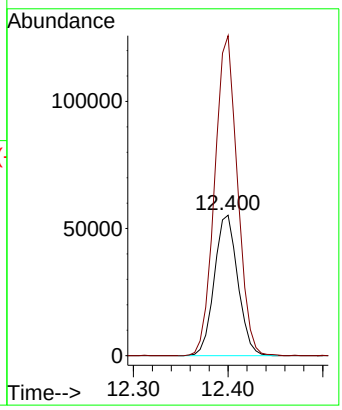
Tgt Ion:106 Resp: 9515

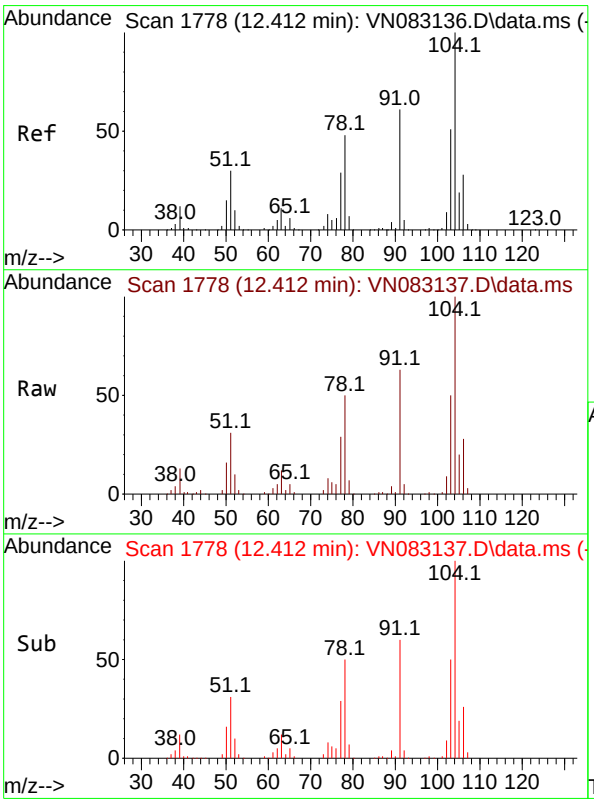
Ion	Ratio	Lower	Upper
106	100		
91	221.3	111.3	333.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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

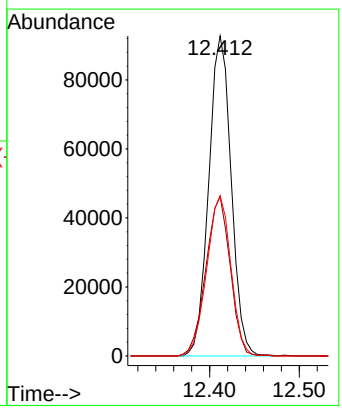


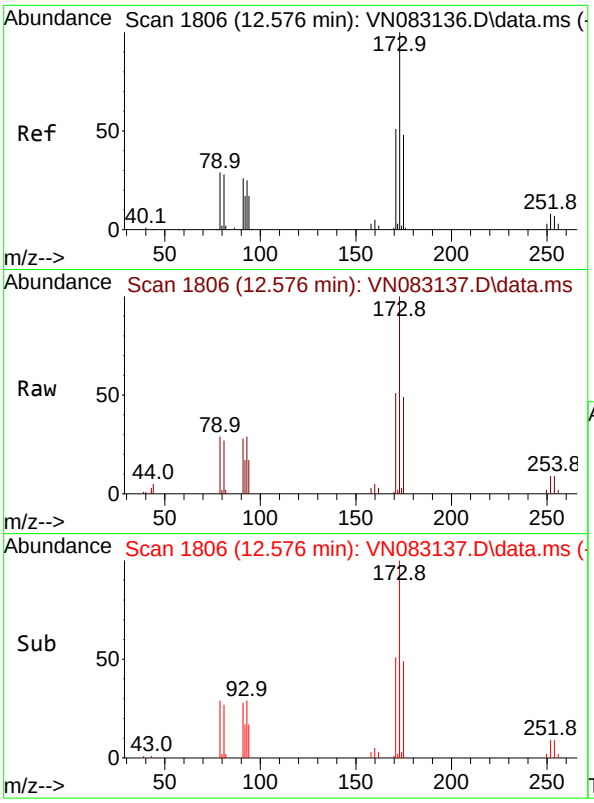


#70
Styrene
Concen: 20.475 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

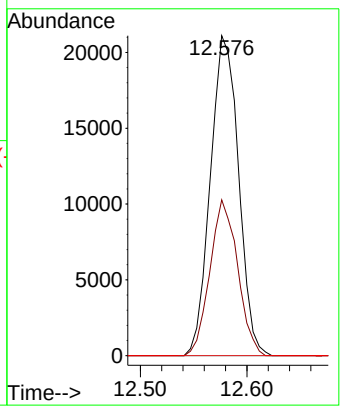




#71
Bromoform
Concen: 20.957 ug/l
RT: 12.576 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:173 Resp: 3876

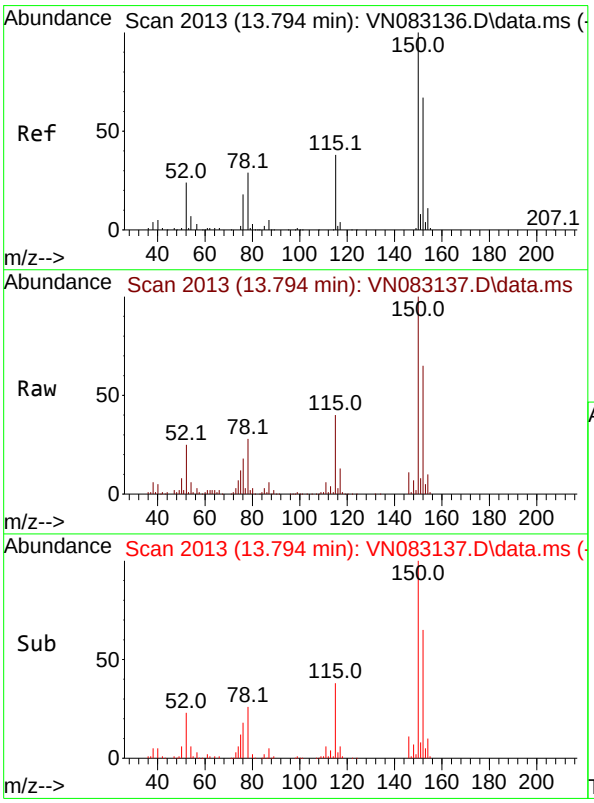
Ion	Ratio	Lower	Upper
173	100		
175	47.9	24.0	72.0
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

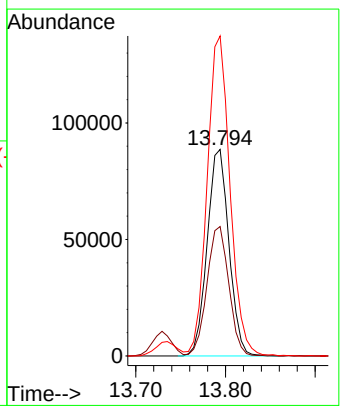
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

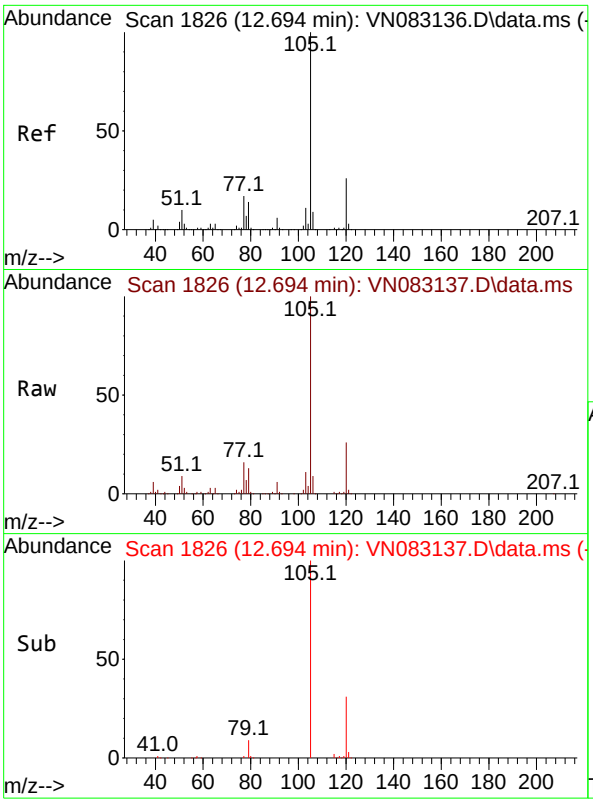


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

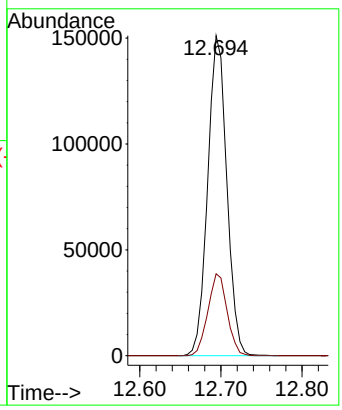




#73
Isopropylbenzene
Concen: 19.764 ug/l
RT: 12.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:105 Resp: 24671

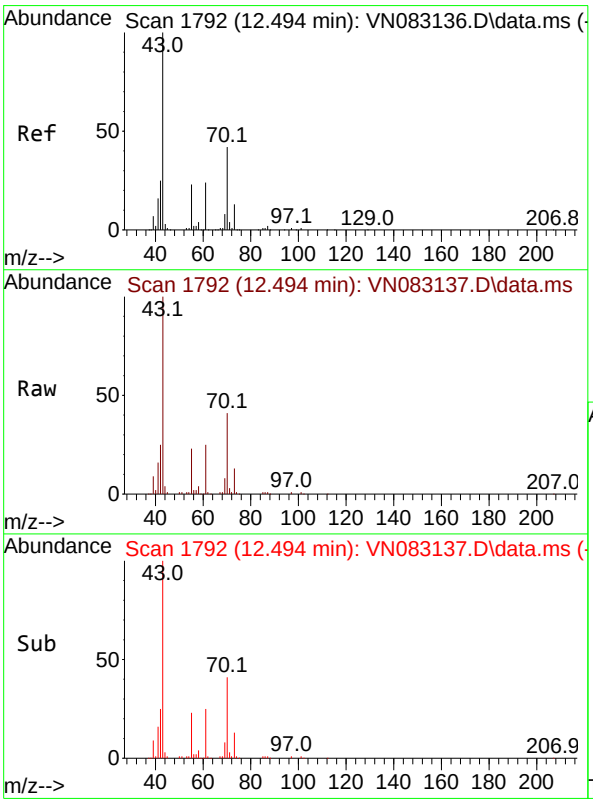
Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.9	38.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

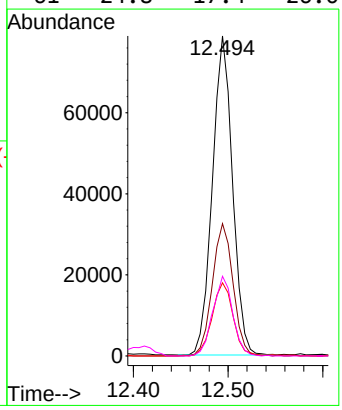
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

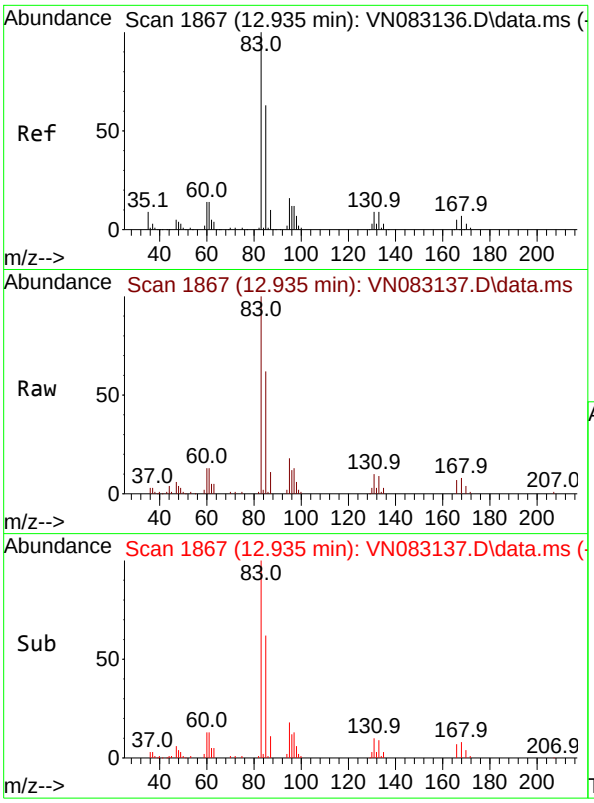


#74
N-amyl acetate
Concen: 19.014 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

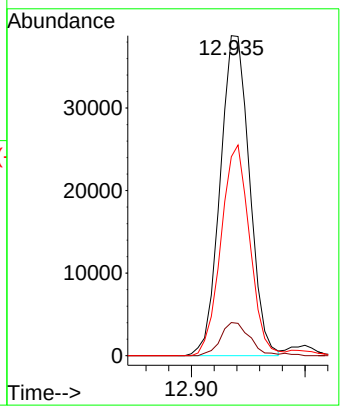




#75
1,1,2,2-Tetrachloroethane
Concen: 19.670 ug/l
RT: 12.935 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 83 Resp: 6944

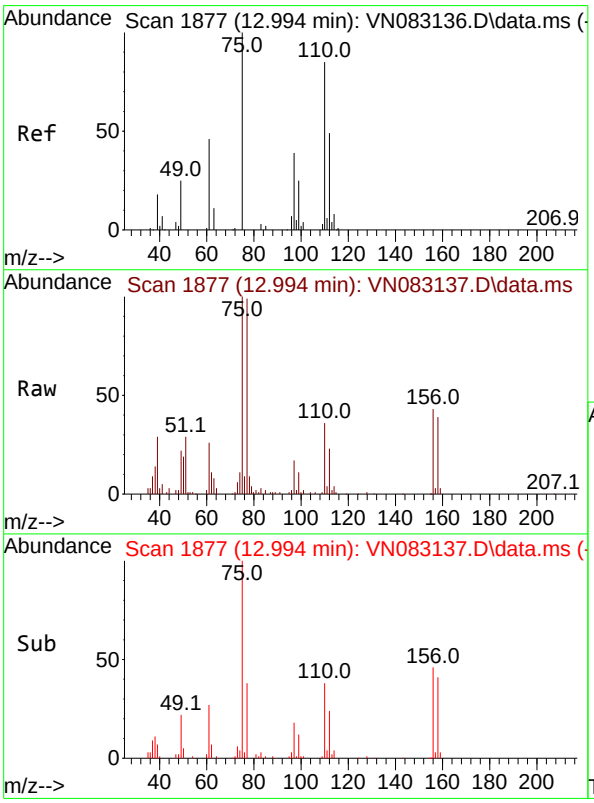
Ion	Ratio	Lower	Upper
83	100		
131	10.6	5.0	14.9
85	64.6	31.9	95.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

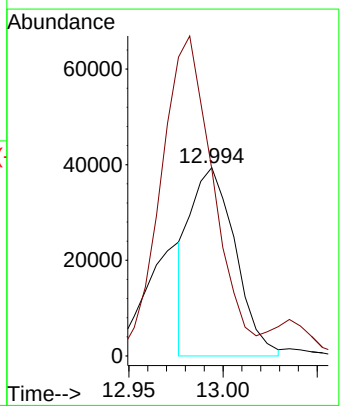
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

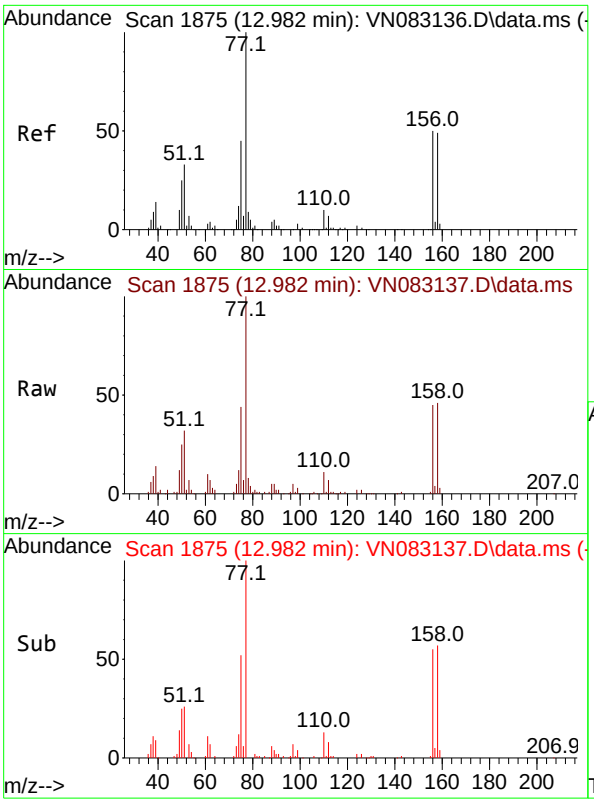


#76
1,2,3-Trichloropropane
Concen: 19.901 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 75 Resp: 65295

Ion	Ratio	Lower	Upper
75	100		
77	199.0	110.9	332.6

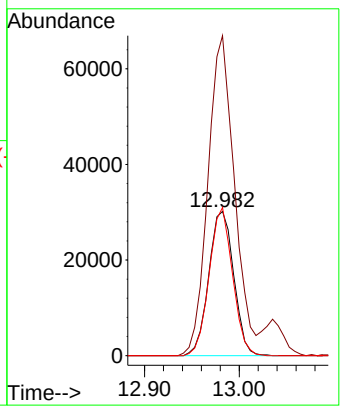




#77
Bromobenzene
Concen: 19.952 ug/l
RT: 12.982 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:156 Resp: 5532

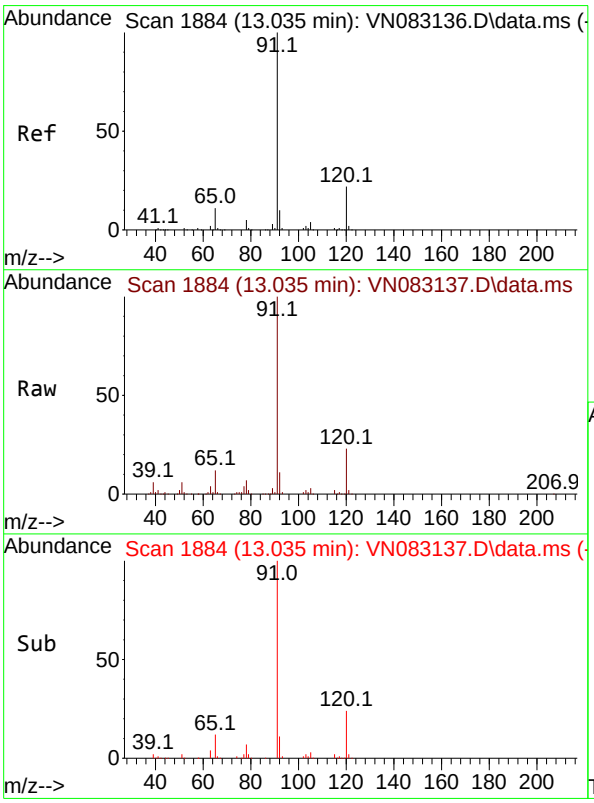
Ion	Ratio	Lower	Upper
156	100		
77	234.8	111.3	333.8
158	95.8	48.3	144.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

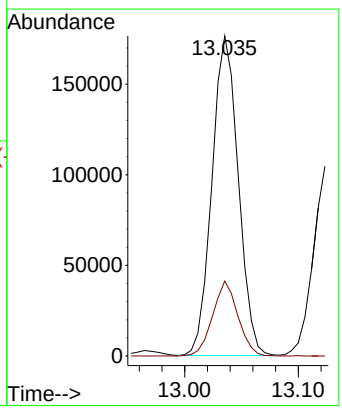
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

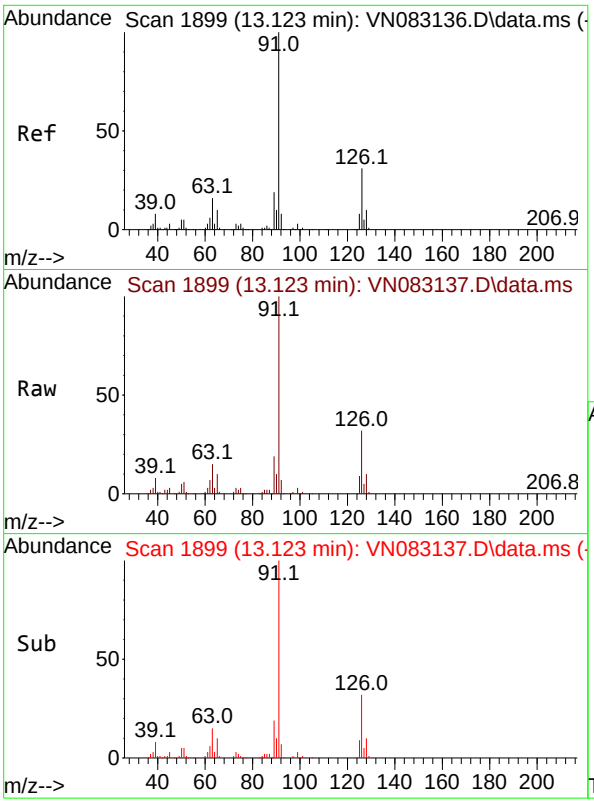


#78
n-propylbenzene
Concen: 19.740 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 91 Resp: 283745

Ion	Ratio	Lower	Upper
91	100		
120	22.4	10.9	32.9

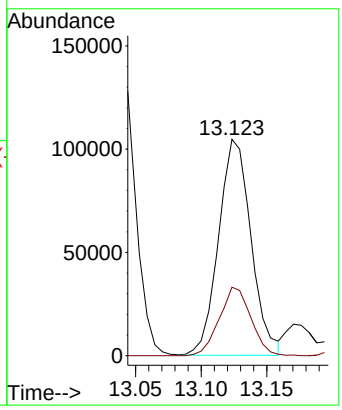




#79
2-Chlorotoluene
Concen: 19.827 ug/l
RT: 13.123 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 91 Resp: 18068

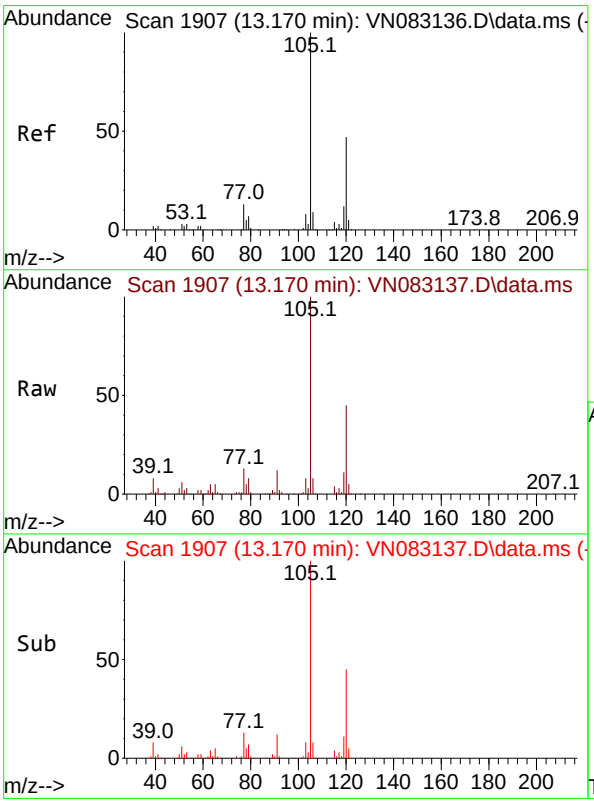
Ion	Ratio	Lower	Upper
91	100		
126	30.7	16.2	48.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

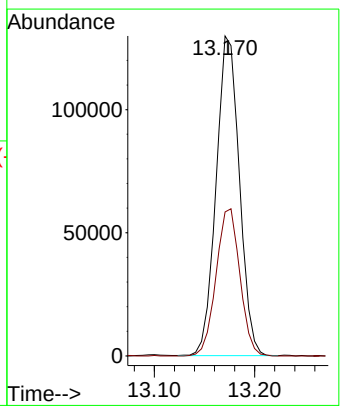
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

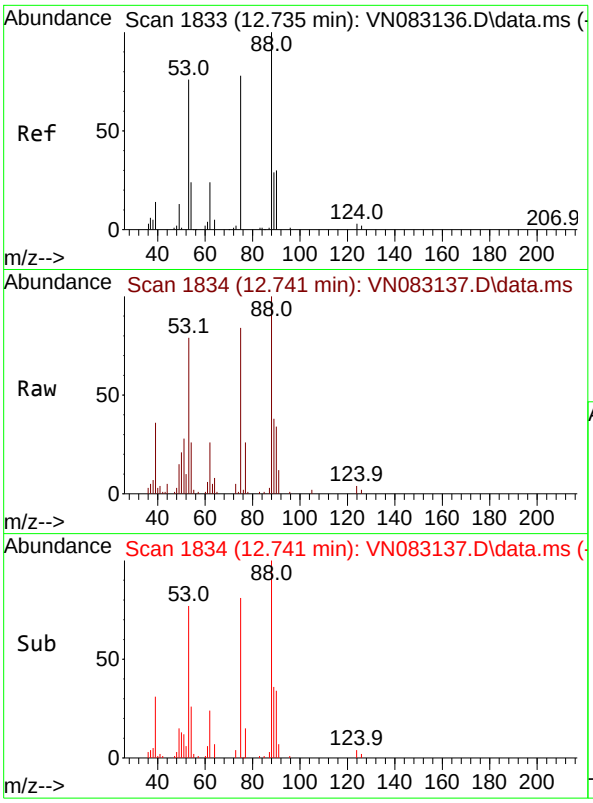


#80
1,3,5-Trimethylbenzene
Concen: 19.938 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

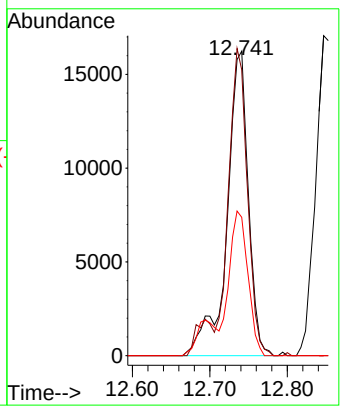
Tgt Ion: 75 Resp: 3126

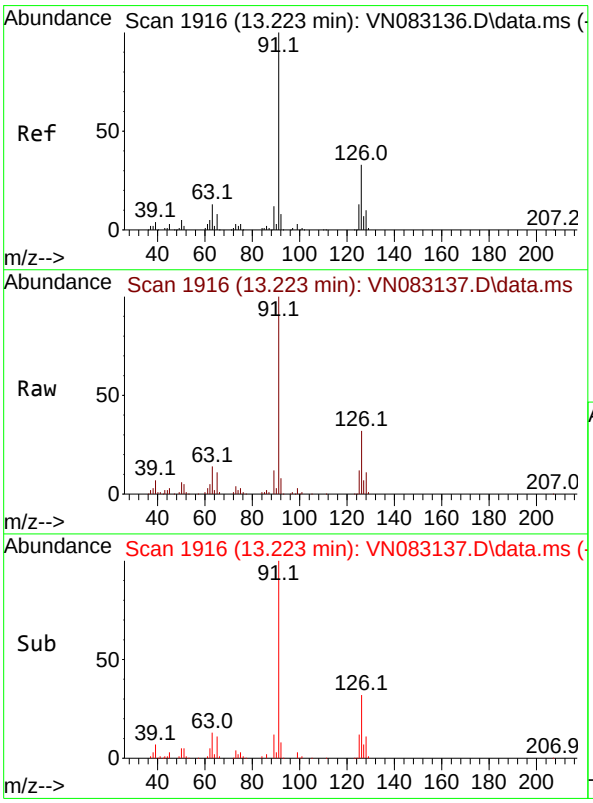
Ion	Ratio	Lower	Upper
75	100		
53	88.0	88.4	132.6
89	41.4	36.3	54.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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

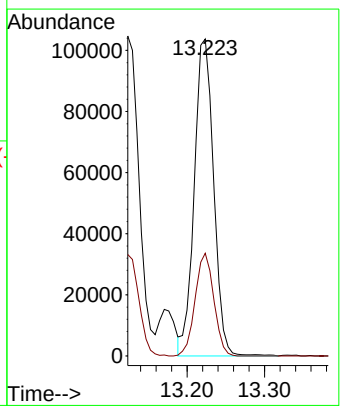


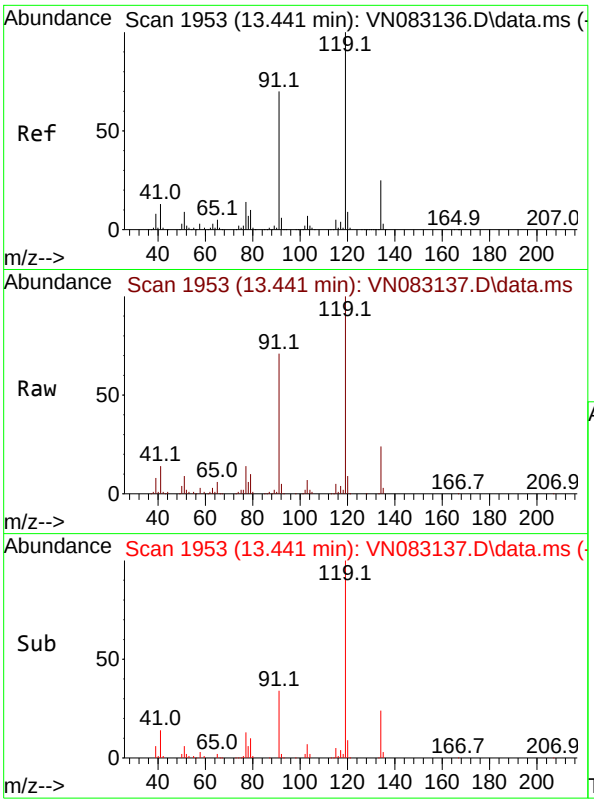


#82
4-Chlorotoluene
Concen: 19.684 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 91 Resp: 179932

Ion	Ratio	Lower	Upper
91	100		
126	31.3	16.2	48.6

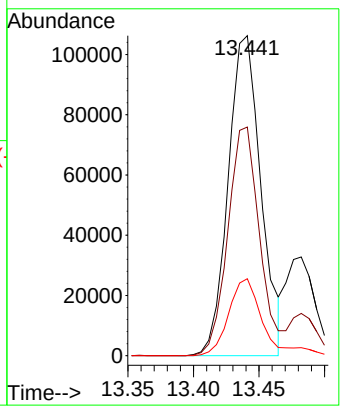




#83
tert-Butylbenzene
Concen: 19.985 ug/l
RT: 13.441 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:119 Resp: 18496

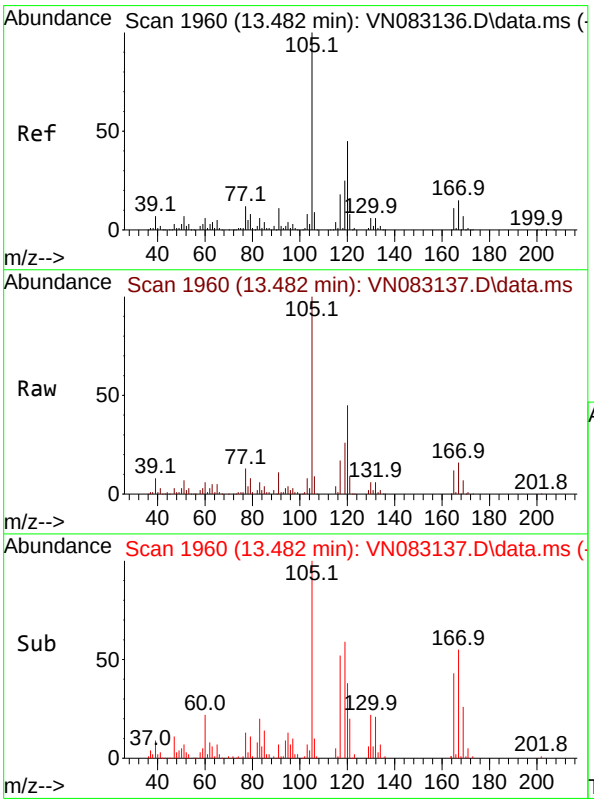
Ion	Ratio	Lower	Upper
119	100		
91	70.2	35.0	105.1
134	25.2	13.3	39.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

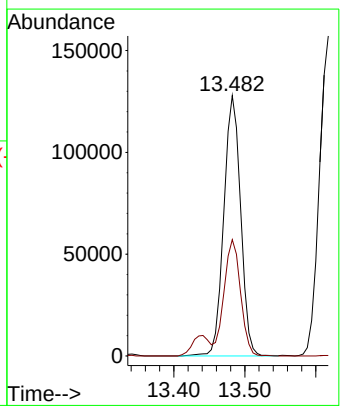
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

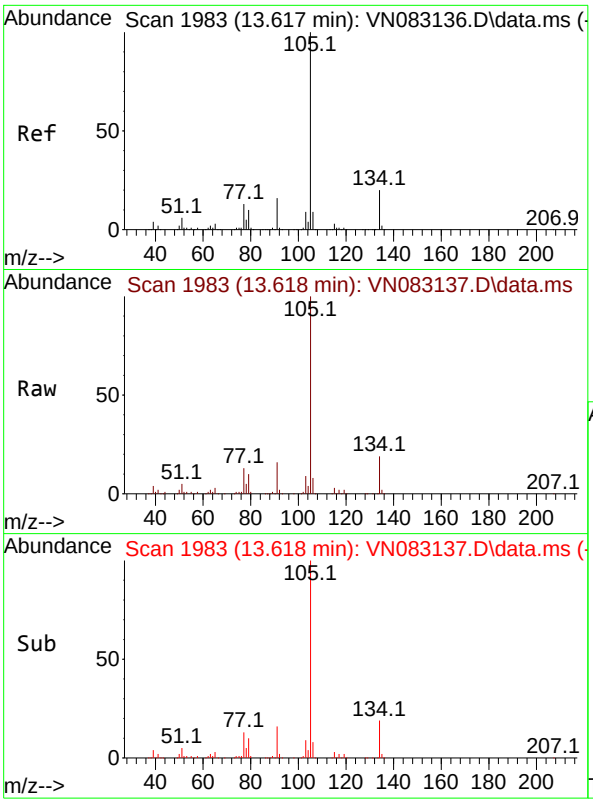


#84
1,2,4-Trimethylbenzene
Concen: 19.984 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:105 Resp: 210474

Ion	Ratio	Lower	Upper
105	100		
120	44.0	21.9	65.8

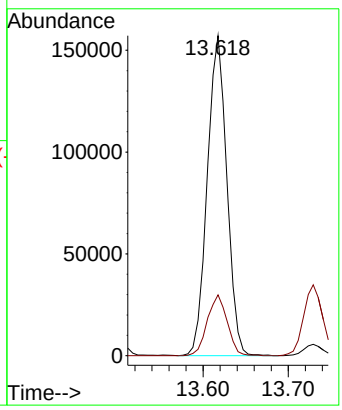




#85
sec-Butylbenzene
Concen: 19.862 ug/l
RT: 13.618 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:105 Resp: 25082

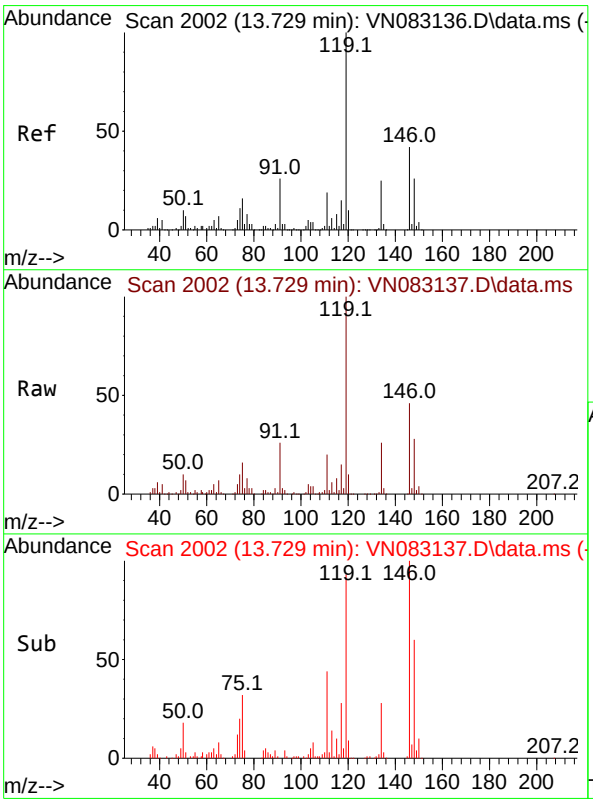
Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.8	29.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

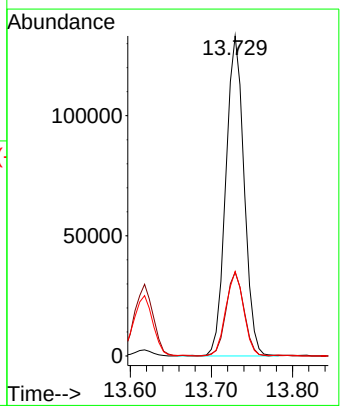
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

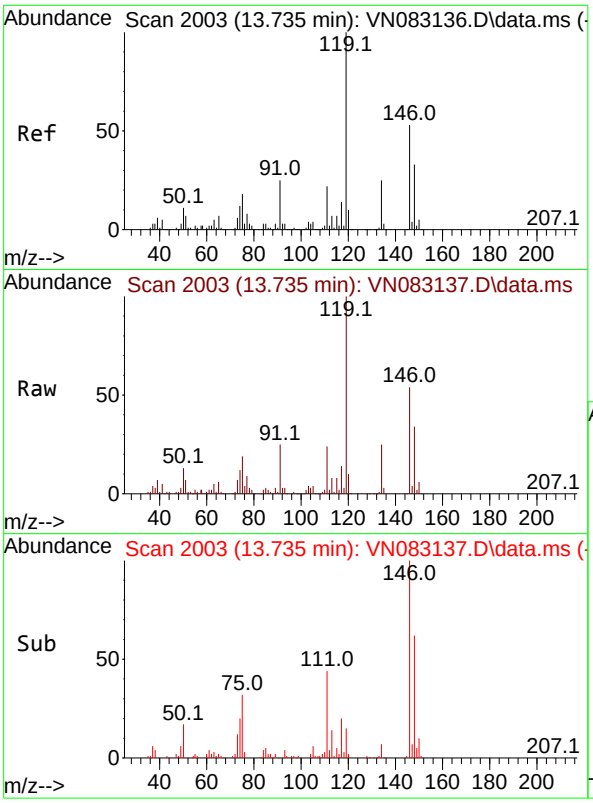


#86
p-Isopropyltoluene
Concen: 19.986 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

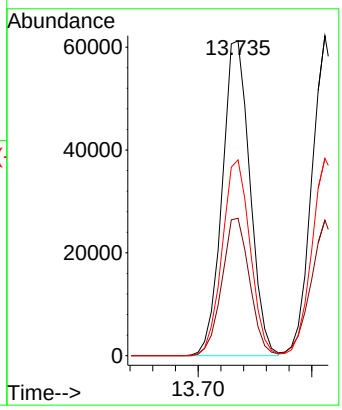




#87
1,3-Dichlorobenzene
Concen: 19.897 ug/l
RT: 13.735 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:146 Resp: 10381

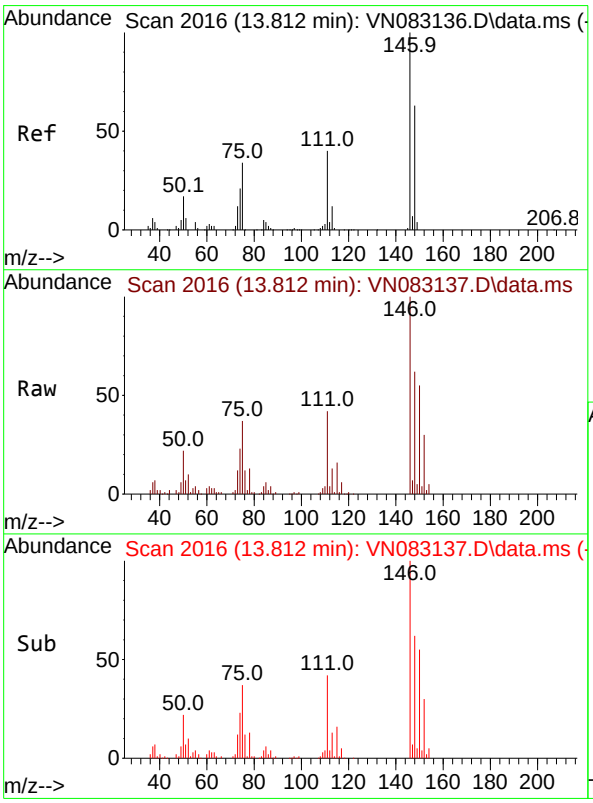
Ion	Ratio	Lower	Upper
146	100		
111	43.7	20.6	61.9
148	62.7	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

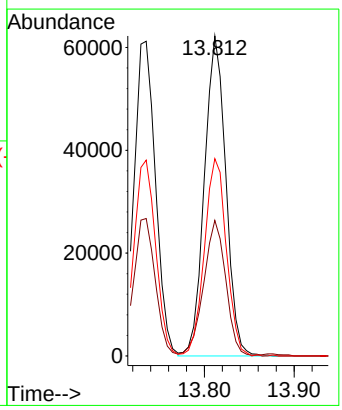
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

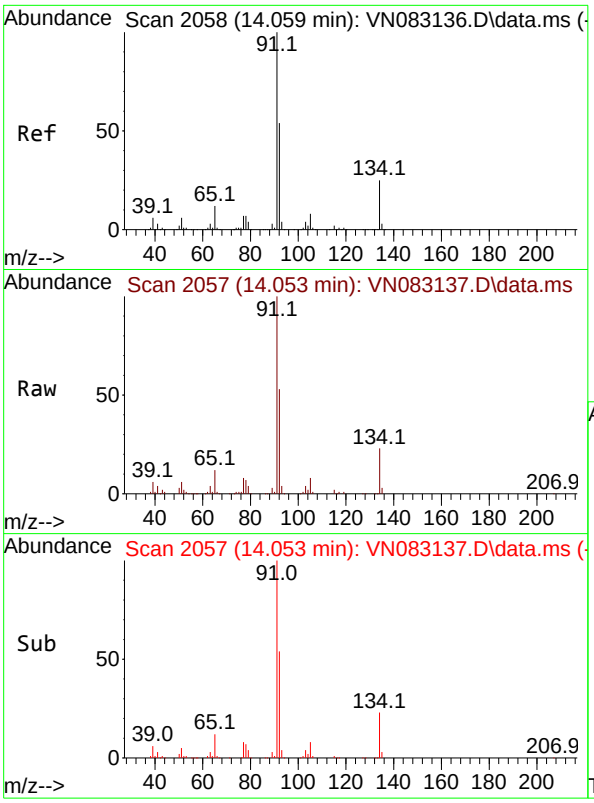


#88
1,4-Dichlorobenzene
Concen: 19.605 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

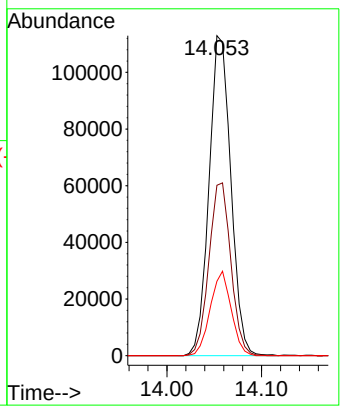




#89
n-Butylbenzene
Concen: 19.975 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 91 Resp: 18048

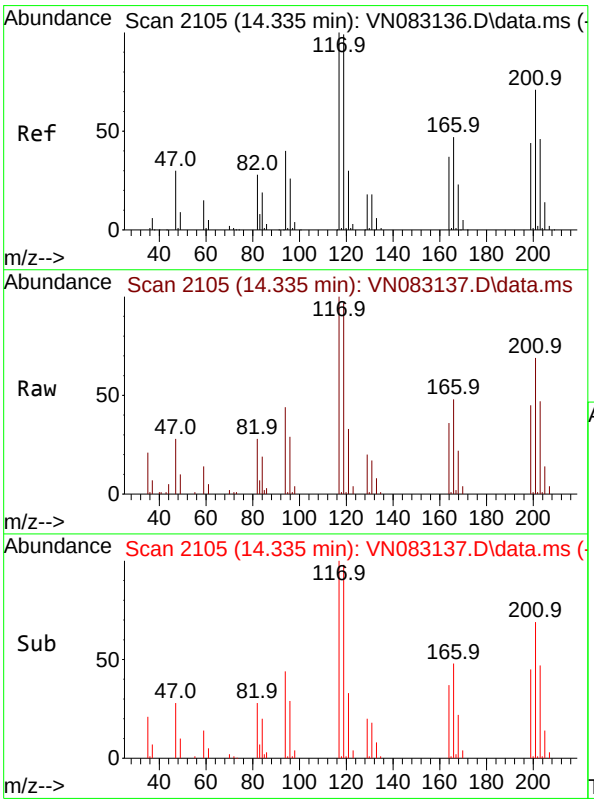
Ion	Ratio	Lower	Upper
91	100		
92	54.3	26.1	78.3
134	25.4	12.1	36.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

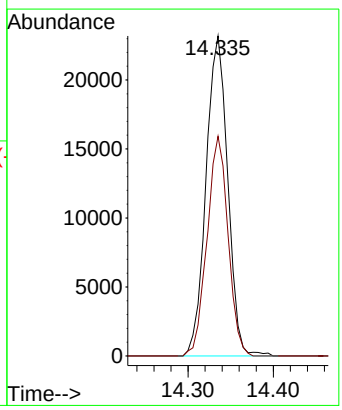
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

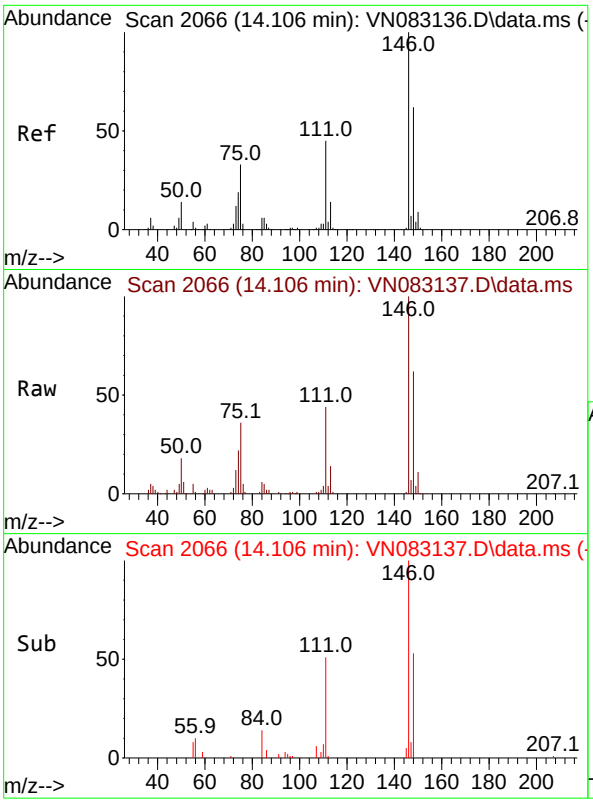


#90
Hexachloroethane
Concen: 20.343 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:117 Resp: 40982

Ion	Ratio	Lower	Upper
117	100		
201	66.5	35.8	107.3

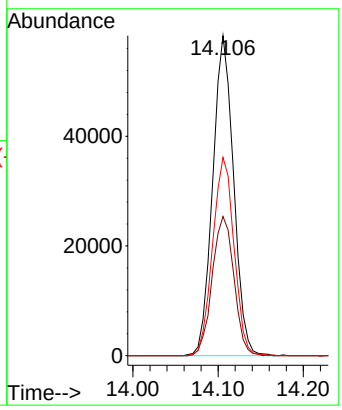




#91
1,2-Dichlorobenzene
Concen: 19.673 ug/l
RT: 14.106 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:146 Resp: 9933

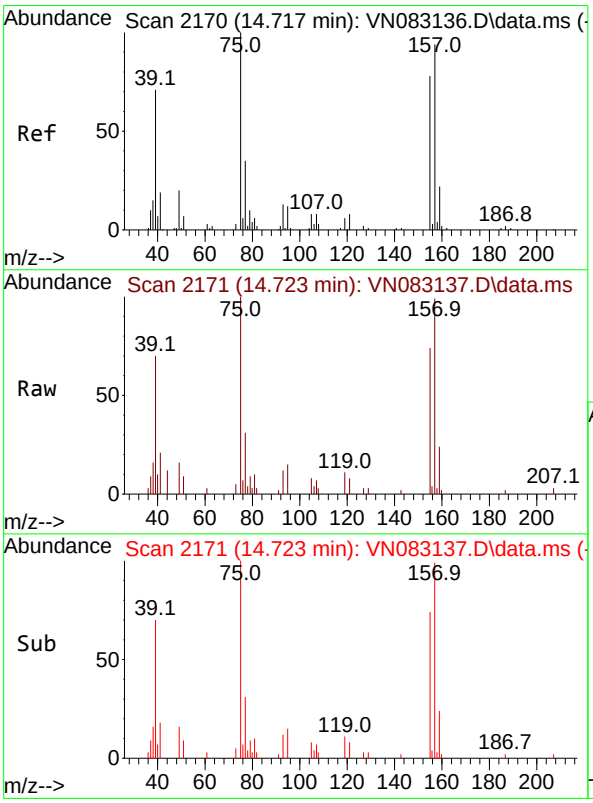
Ion	Ratio	Lower	Upper
146	100		
111	45.3	21.4	64.2
148	63.5	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

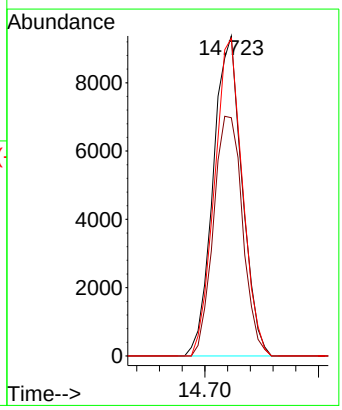
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

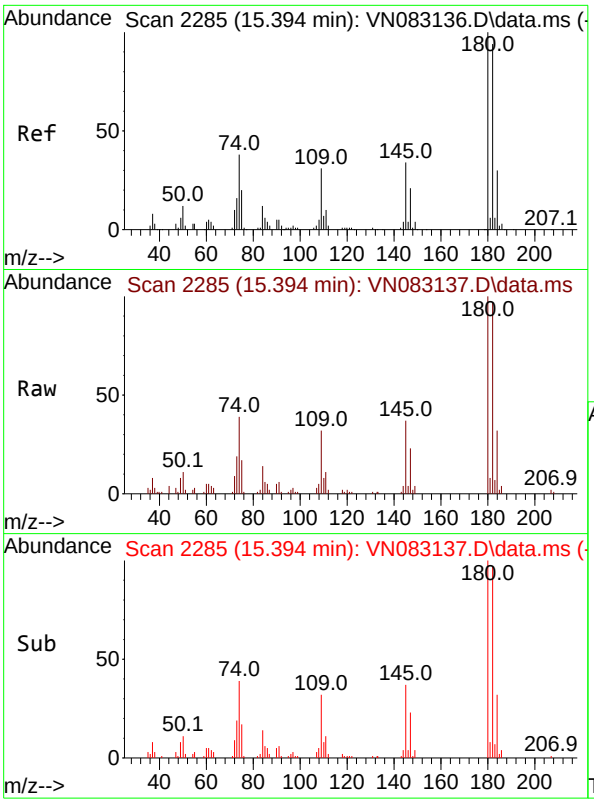


#92
1,2-Dibromo-3-Chloropropane
Concen: 19.320 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

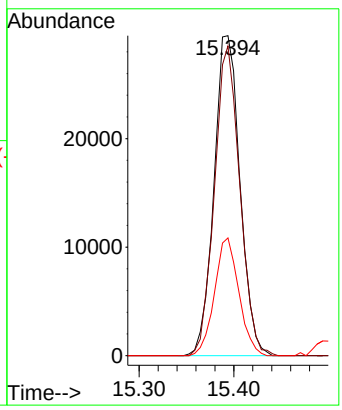




#93
1,2,4-Trichlorobenzene
Concen: 19.902 ug/l
RT: 15.394 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:180 Resp: 5629

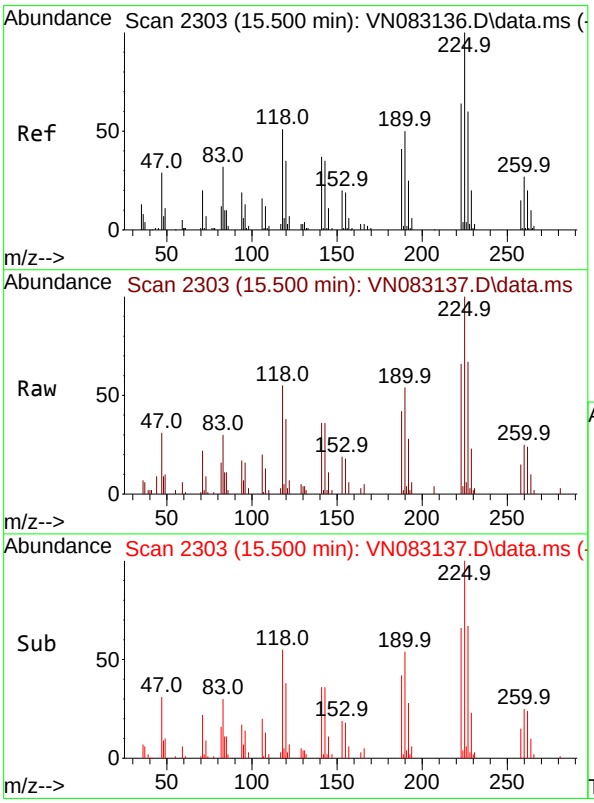
Ion	Ratio	Lower	Upper
180	100		
182	94.3	47.3	141.8
145	34.5	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

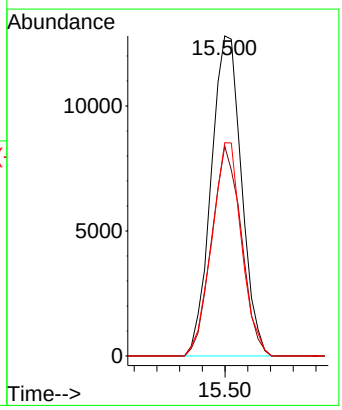
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

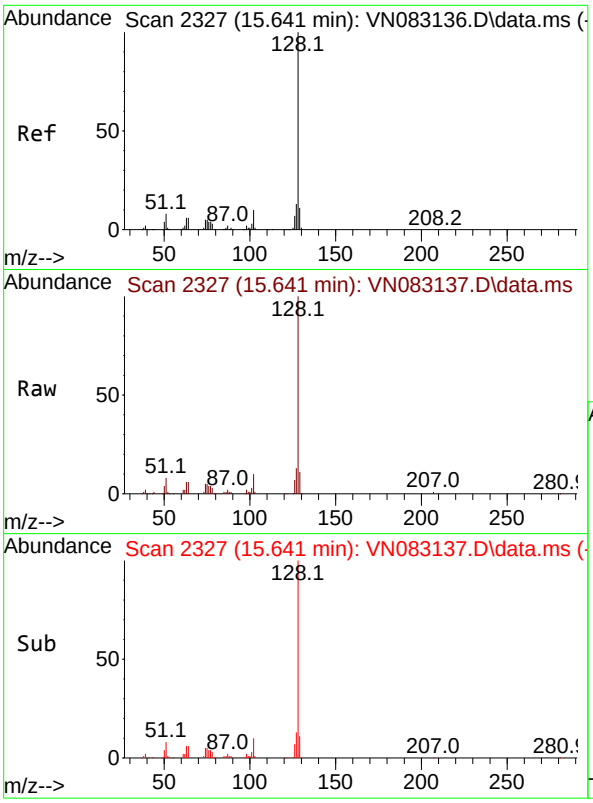


#94
Hexachlorobutadiene
Concen: 18.859 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

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

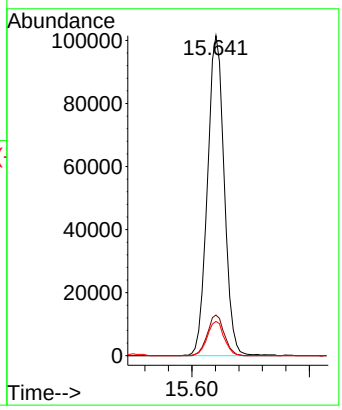




#95
Naphthalene
Concen: 20.047 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:128 Resp: 20087

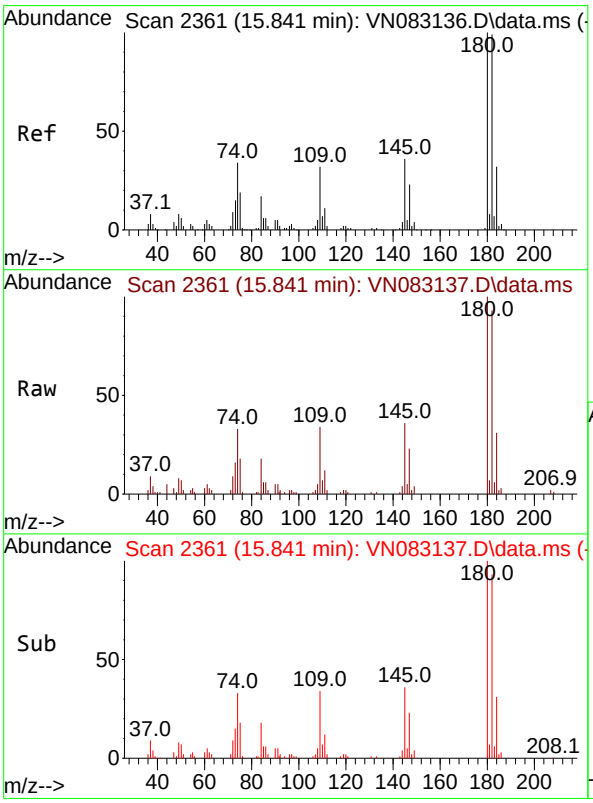
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.6	16.0
129	10.8	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

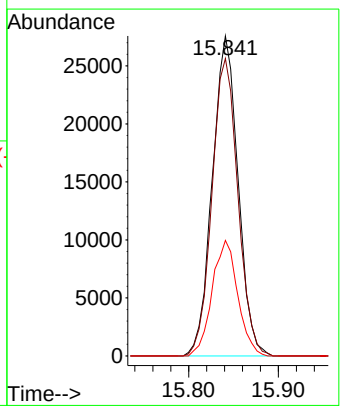
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#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



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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

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

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

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

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

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

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)

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

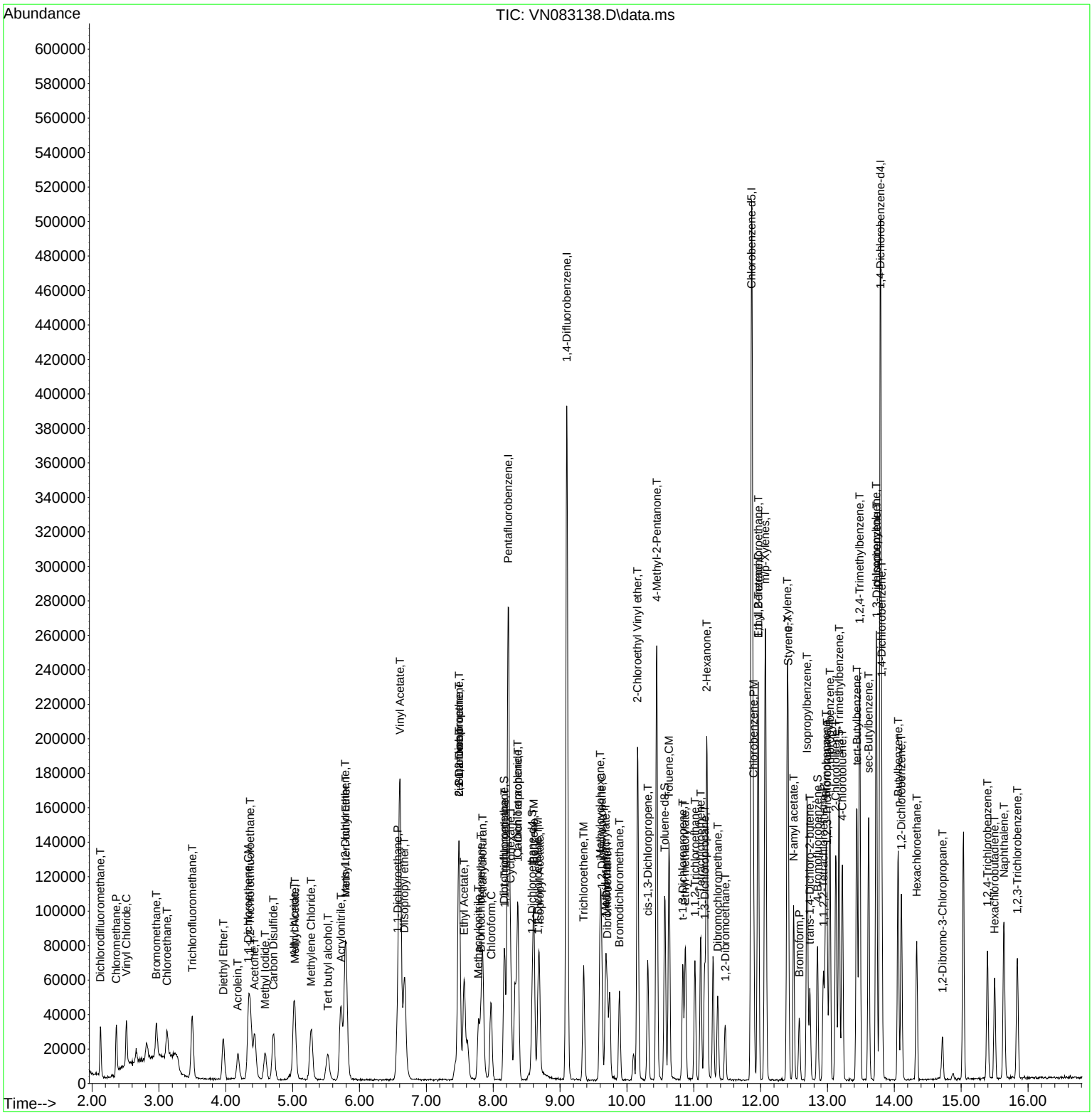
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083138.D
Acq On : 07 Aug 2024 11:46
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

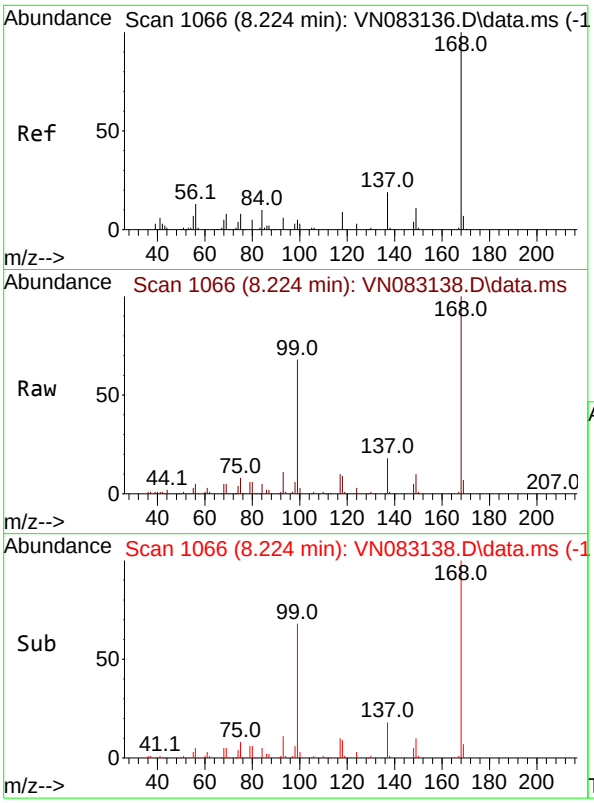
Quant Time: Aug 08 06:17:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

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

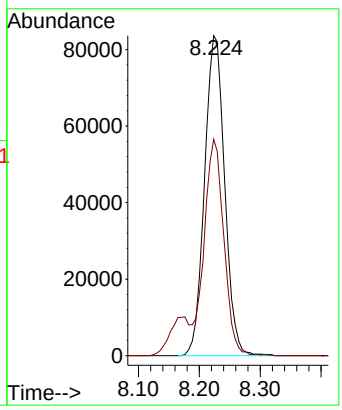




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:168 Resp: 19175

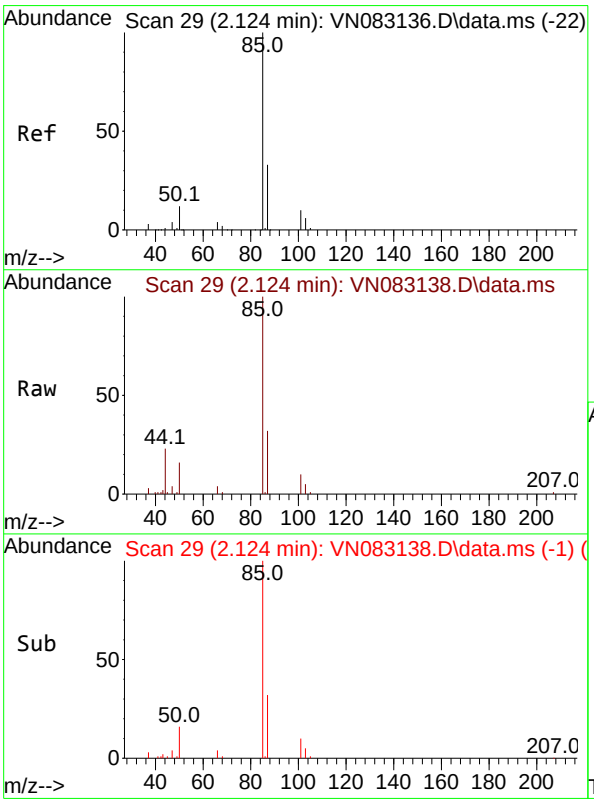
Ion	Ratio	Lower	Upper
168	100		
99	67.6	48.2	72.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

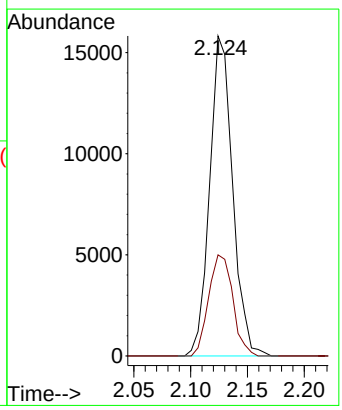
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

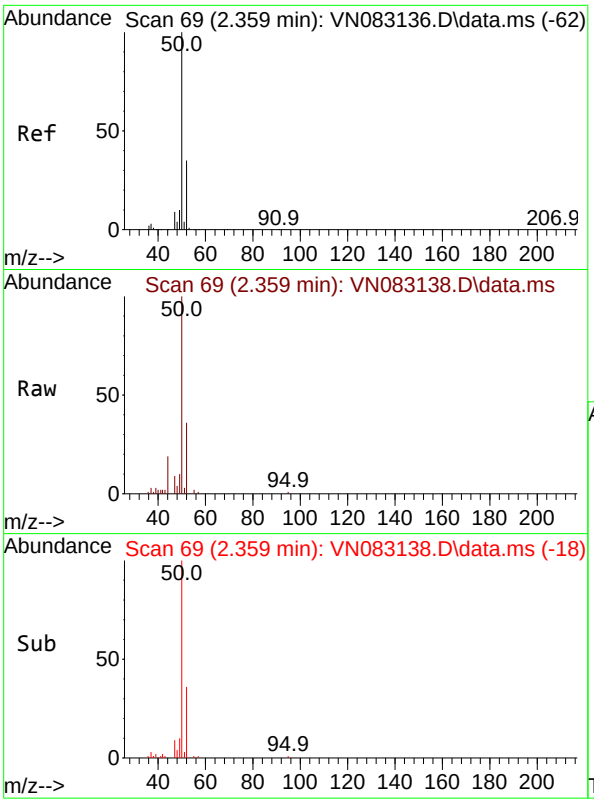


#2
Dichlorodifluoromethane
Concen: 10.212 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 85 Resp: 22206

Ion	Ratio	Lower	Upper
85	100		
87	31.6	15.7	47.0

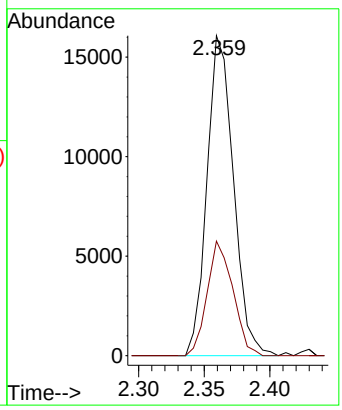




#3
Chloromethane
Concen: 10.150 ug/l
RT: 2.359 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 50 Resp: 2259

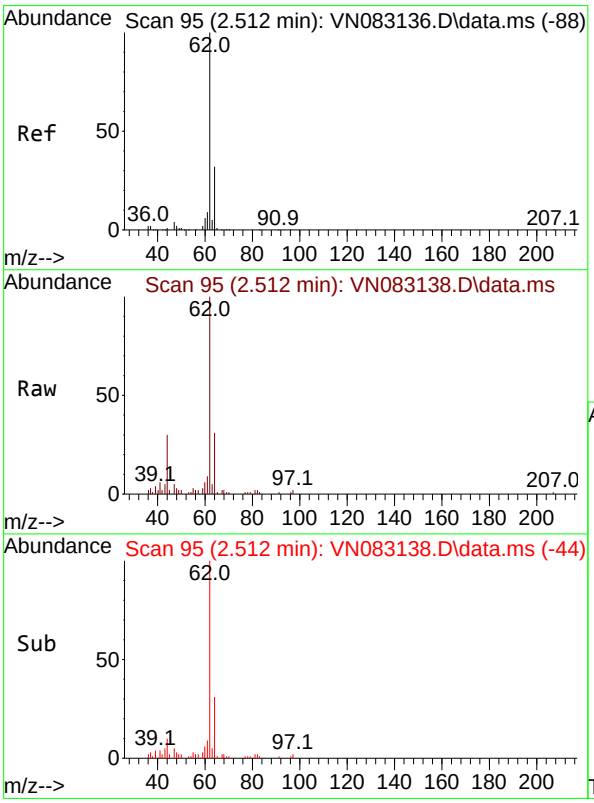
Ion	Ratio	Lower	Upper
50	100		
52	35.8	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

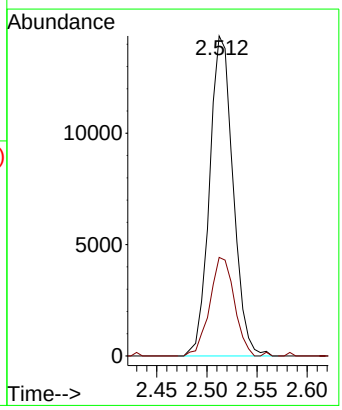
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

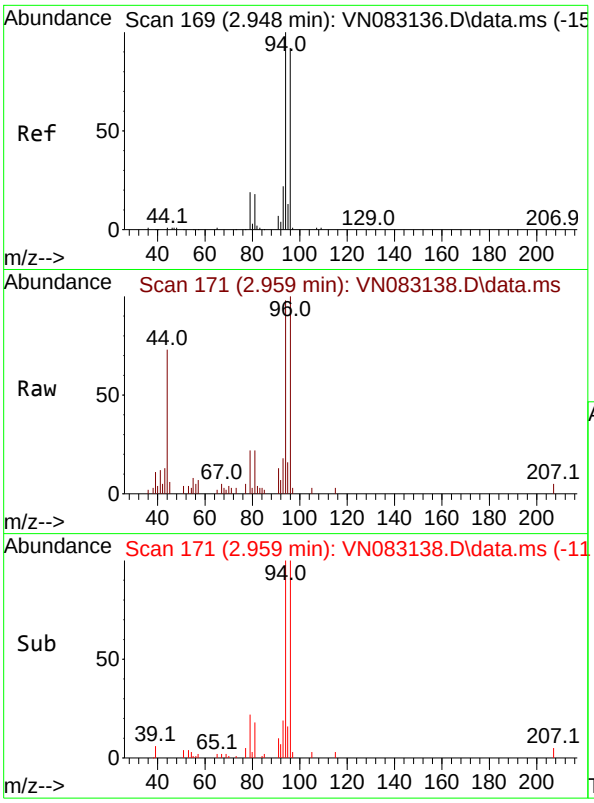


#4
Vinyl Chloride
Concen: 10.328 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 62 Resp: 23461

Ion	Ratio	Lower	Upper
62	100		
64	30.8	25.0	37.6

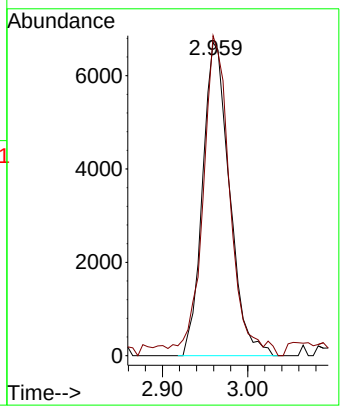




#5
Bromomethane
Concen: 10.488 ug/l
RT: 2.959 min Scan# 1
Delta R.T. 0.012 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 94 Resp: 1478

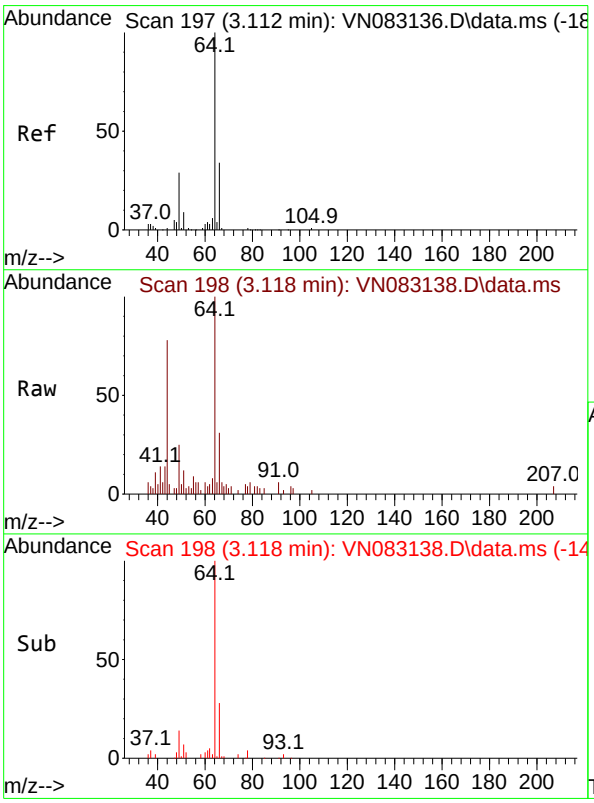
Ion	Ratio	Lower	Upper
94	100		
96	102.2	78.0	117.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

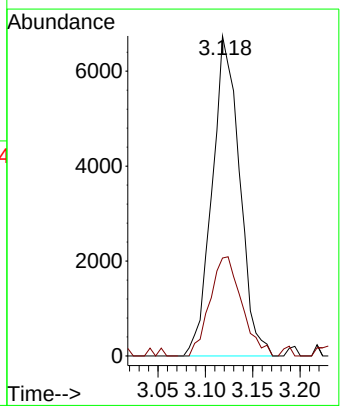
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

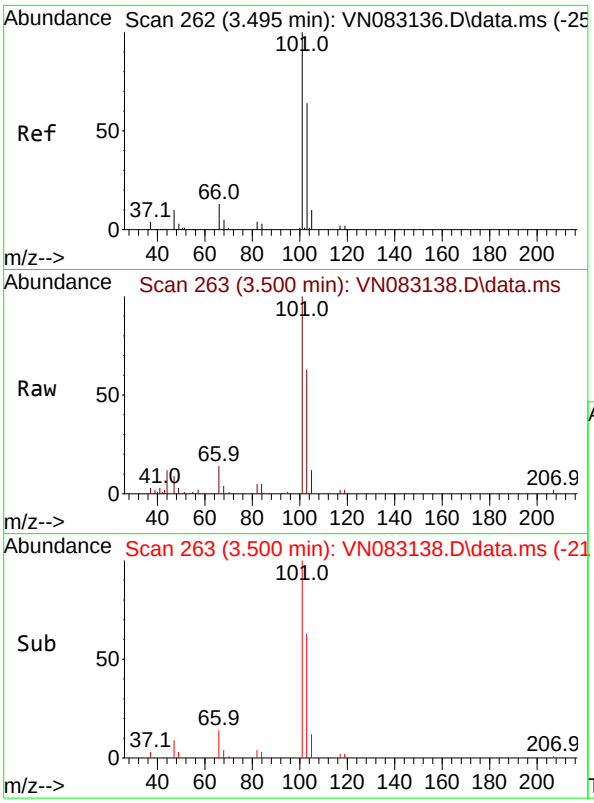


#6
Chloroethane
Concen: 9.581 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 64 Resp: 13616

Ion	Ratio	Lower	Upper
64	100		
66	30.6	26.6	40.0

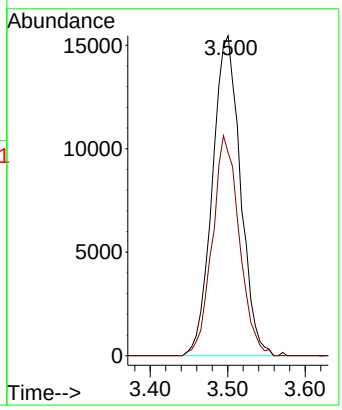




#7
Trichlorofluoromethane
Concen: 10.357 ug/l
RT: 3.500 min Scan# 2
Delta R.T. 0.005 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:101 Resp: 3886

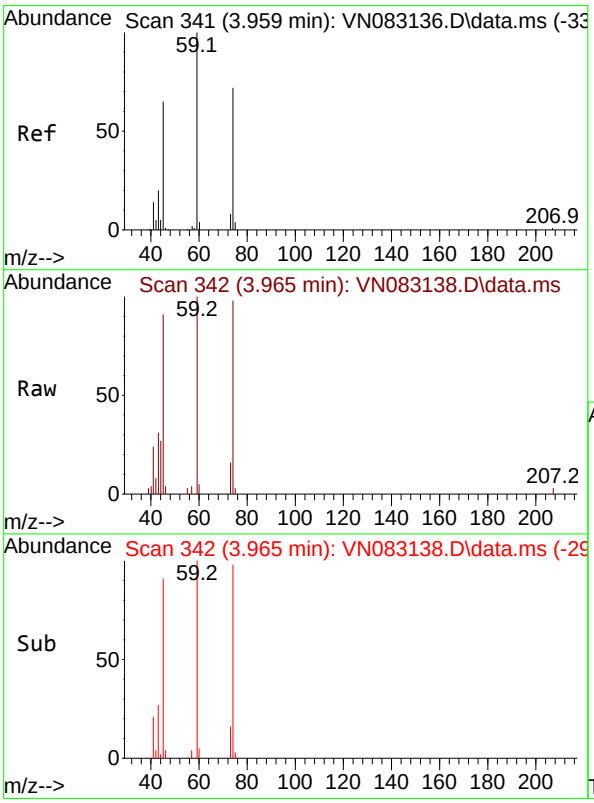
Ion	Ratio	Lower	Upper
101	100		
103	63.5	52.7	79.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

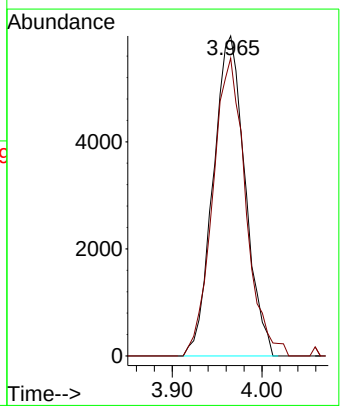
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

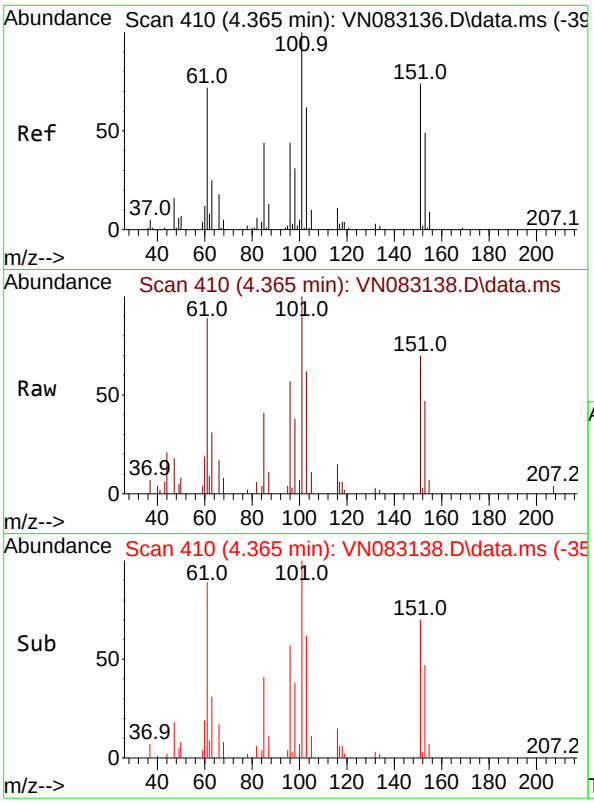


#8
Diethyl Ether
Concen: 10.571 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 74 Resp: 14761

Ion	Ratio	Lower	Upper
74	100		
45	95.9	55.5	166.3

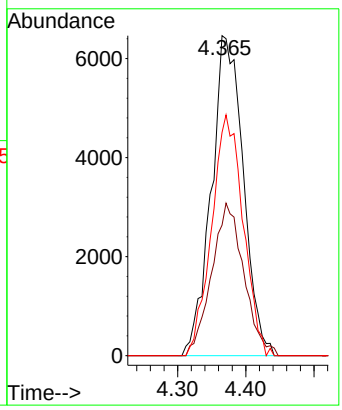




#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.189 ug/l
RT: 4.365 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:101 Resp: 2108

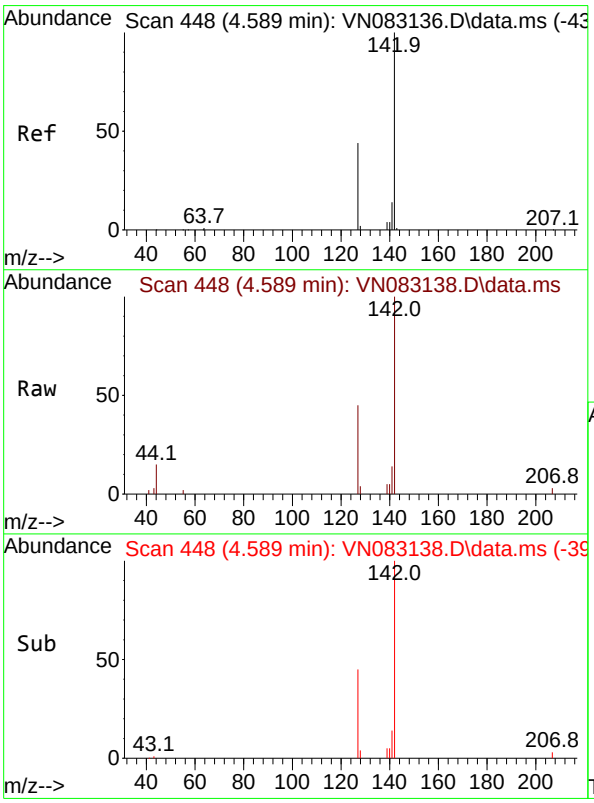
Ion	Ratio	Lower	Upper
101	100		
85	48.0	38.3	57.5
151	74.1	59.3	88.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

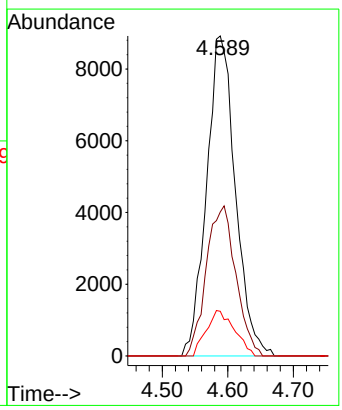
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

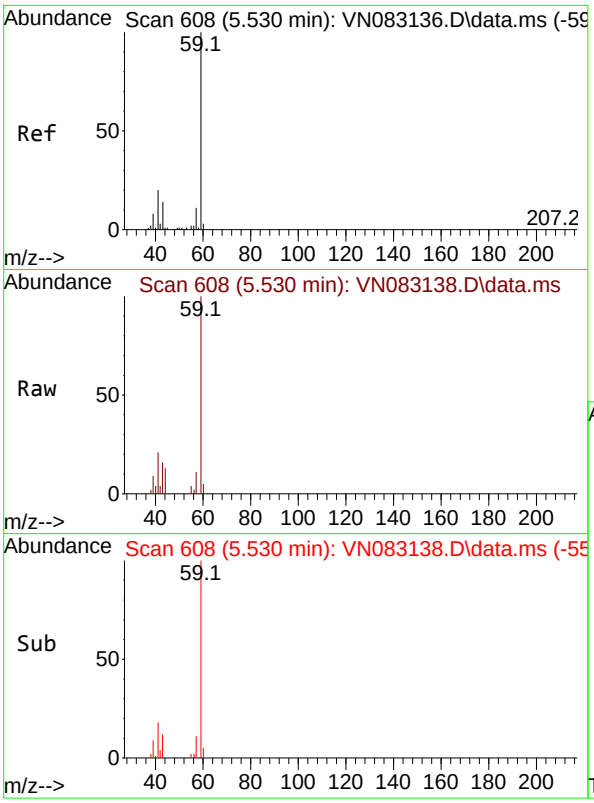


#10
Methyl Iodide
Concen: 10.005 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

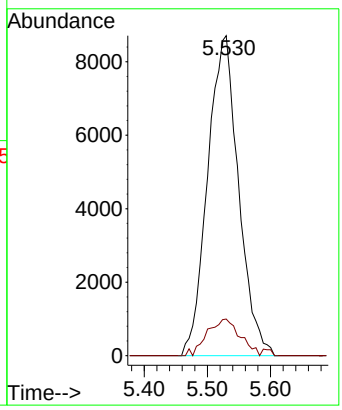




#11
Tert butyl alcohol
Concen: 52.299 ug/l
RT: 5.530 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 59 Resp: 2966

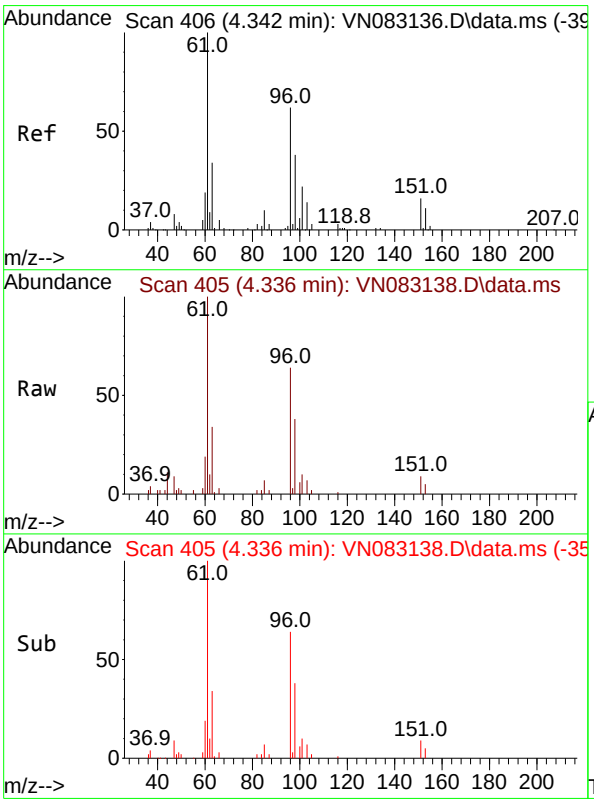
Ion	Ratio	Lower	Upper
59	100		
57	12.1	8.9	13.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

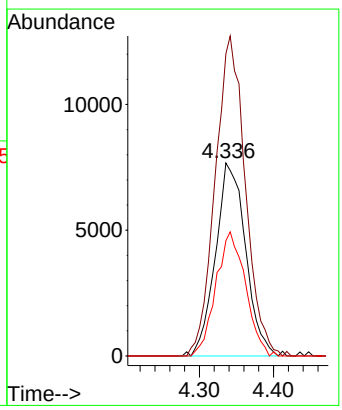
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

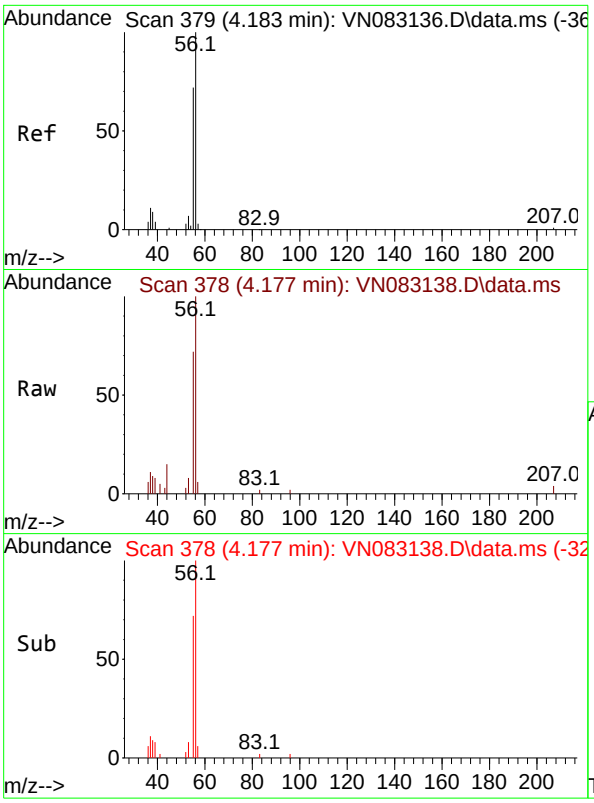


#12
1,1-Dichloroethene
Concen: 10.177 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

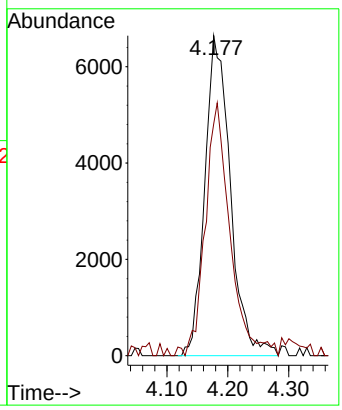




#13
Acrolein
Concen: 52.469 ug/l
RT: 4.177 min Scan# 3
Delta R.T. -0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 56 Resp: 1939

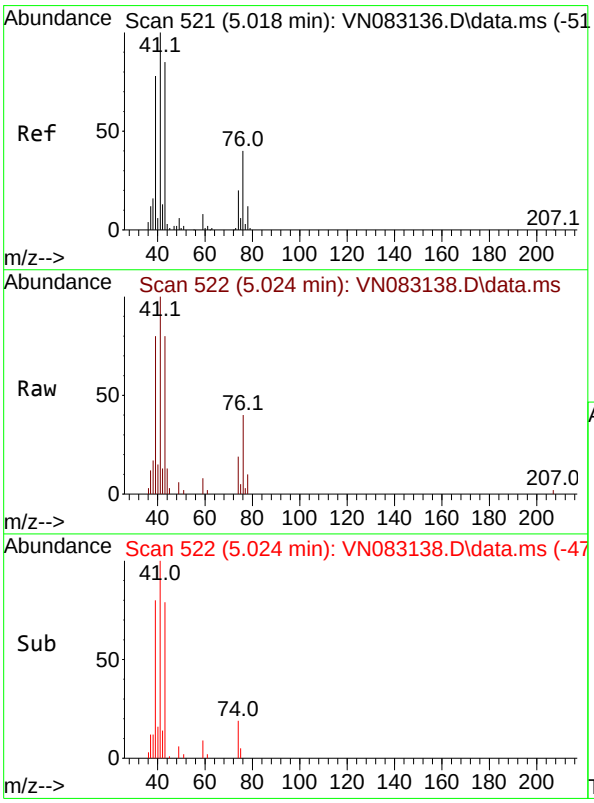
Ion	Ratio	Lower	Upper
56	100		
55	77.0	56.4	84.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

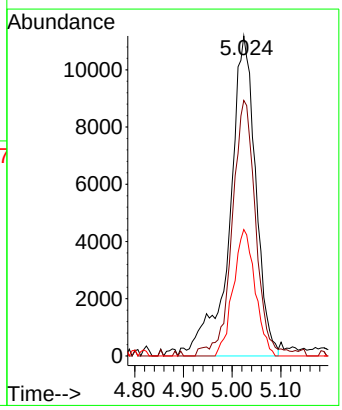
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

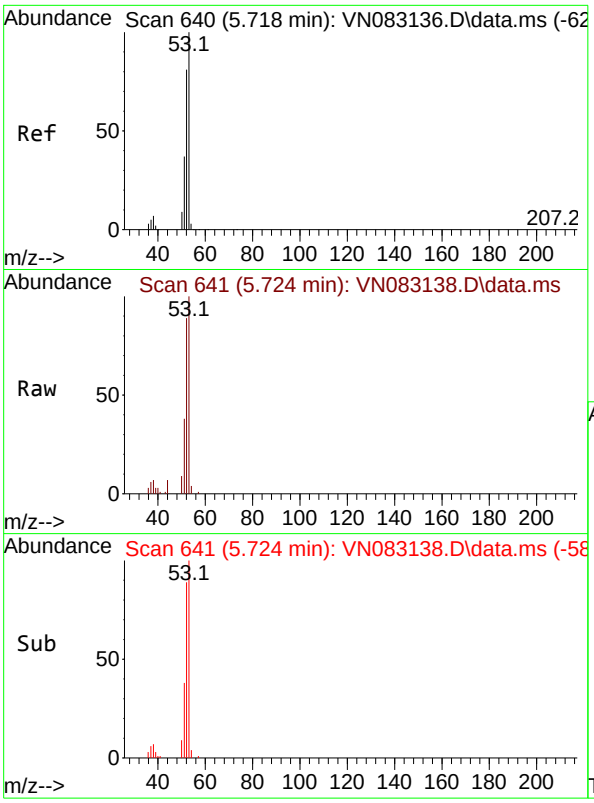


#14
Allyl chloride
Concen: 10.343 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

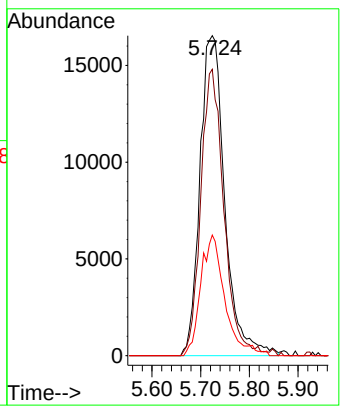




#15
Acrylonitrile
Concen: 50.248 ug/l
RT: 5.724 min Scan# 64
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 53 Resp: 5861

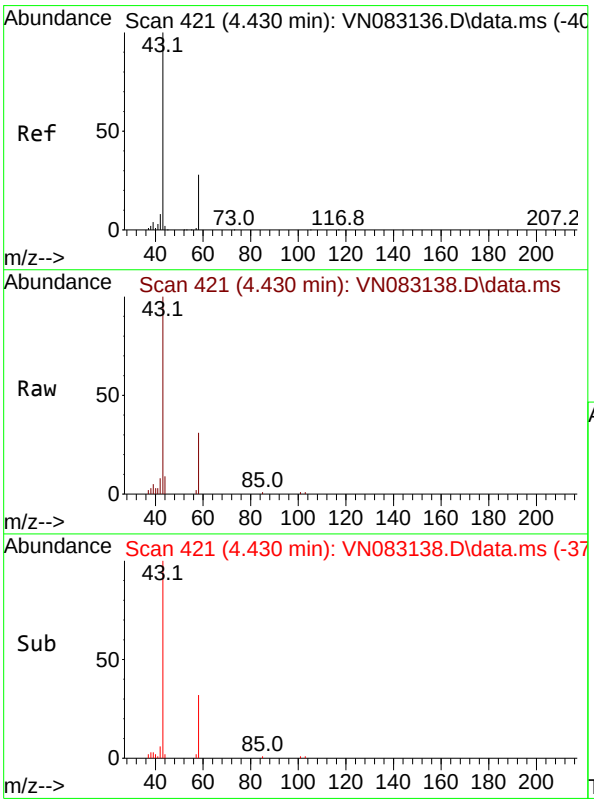
Ion	Ratio	Lower	Upper
53	100		
52	83.1	66.6	100.0
51	36.6	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

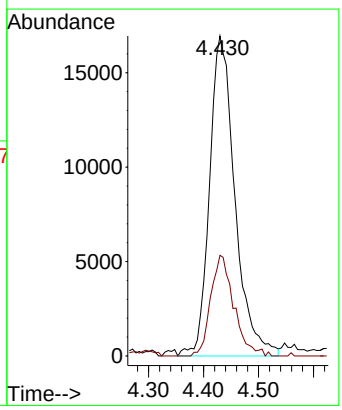
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

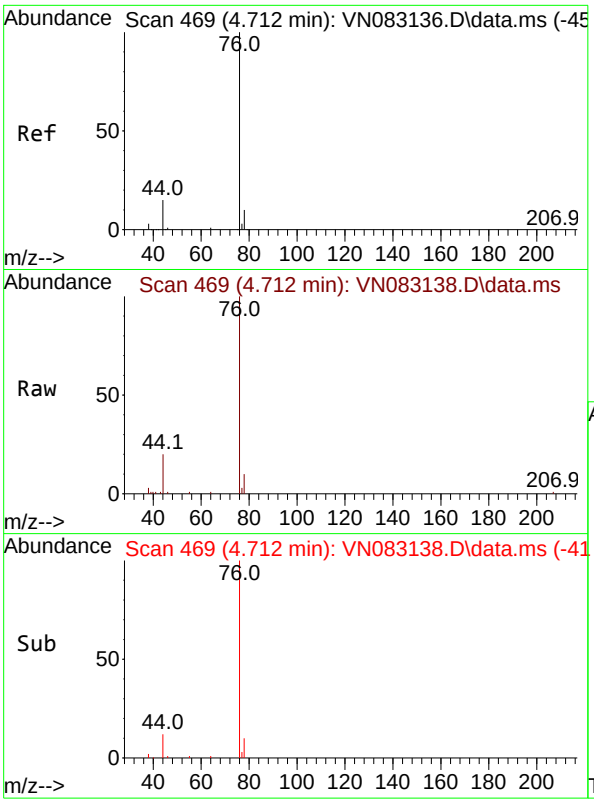


#16
Acetone
Concen: 50.933 ug/l
RT: 4.430 min Scan# 421
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 43 Resp: 54397

Ion	Ratio	Lower	Upper
43	100		
58	31.4	21.8	32.6

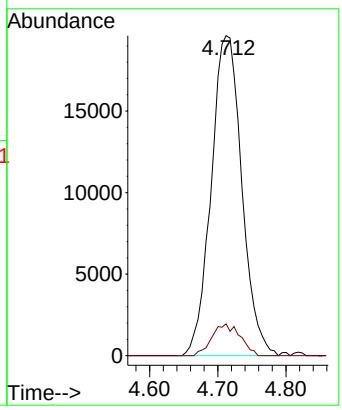




#17
Carbon Disulfide
Concen: 9.860 ug/l
RT: 4.712 min Scan# 4(
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 76 Resp: 6132

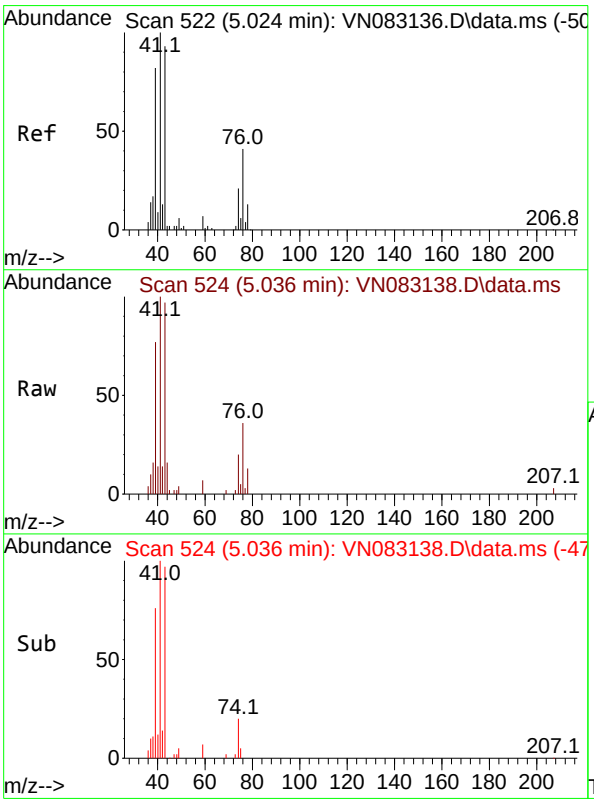
Ion	Ratio	Lower	Upper
76	100		
78	9.9	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

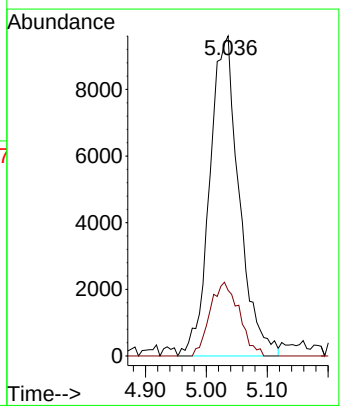
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

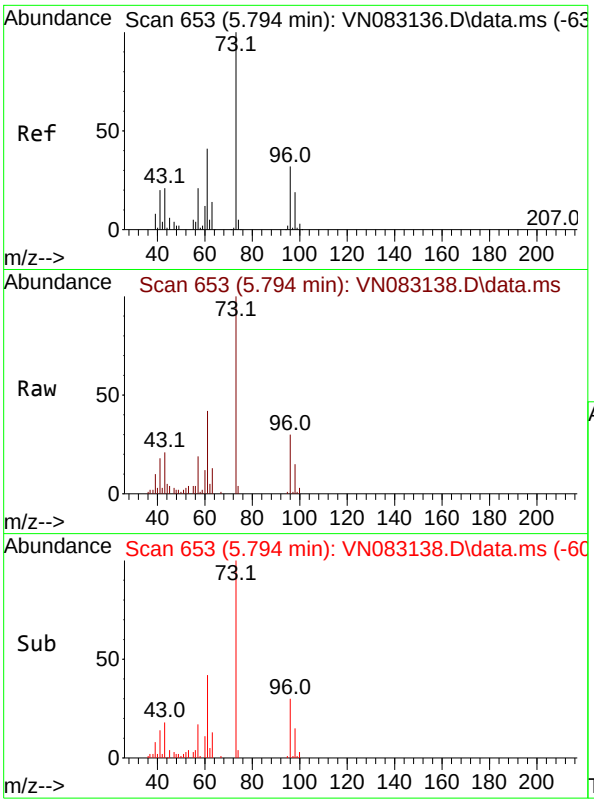


#18
Methyl Acetate
Concen: 10.145 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.012 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 43 Resp: 32282

Ion	Ratio	Lower	Upper
43	100		
74	22.8	16.3	24.5

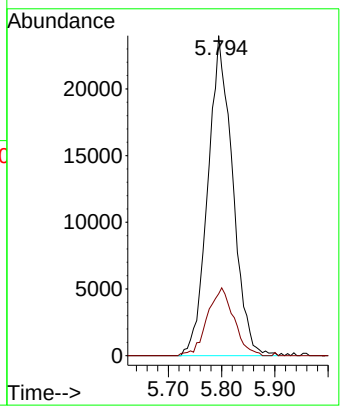




#19
Methyl tert-butyl Ether
Concen: 10.072 ug/l
RT: 5.794 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 73 Resp: 7727

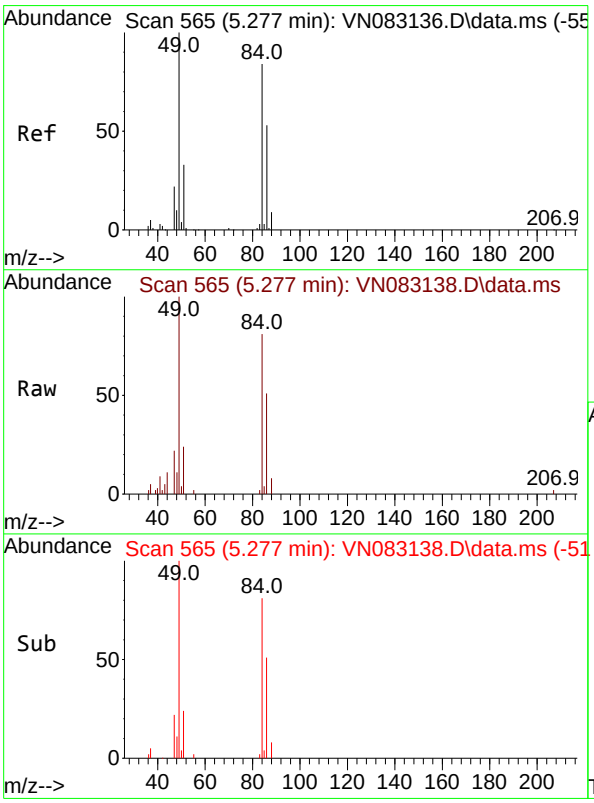
Ion	Ratio	Lower	Upper
73	100		
57	19.3	17.9	26.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

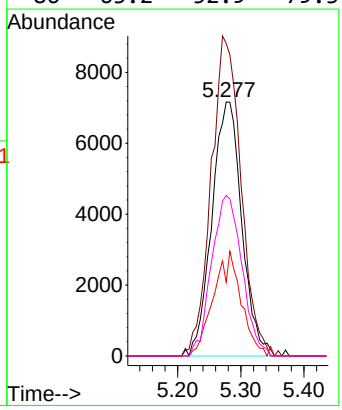
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

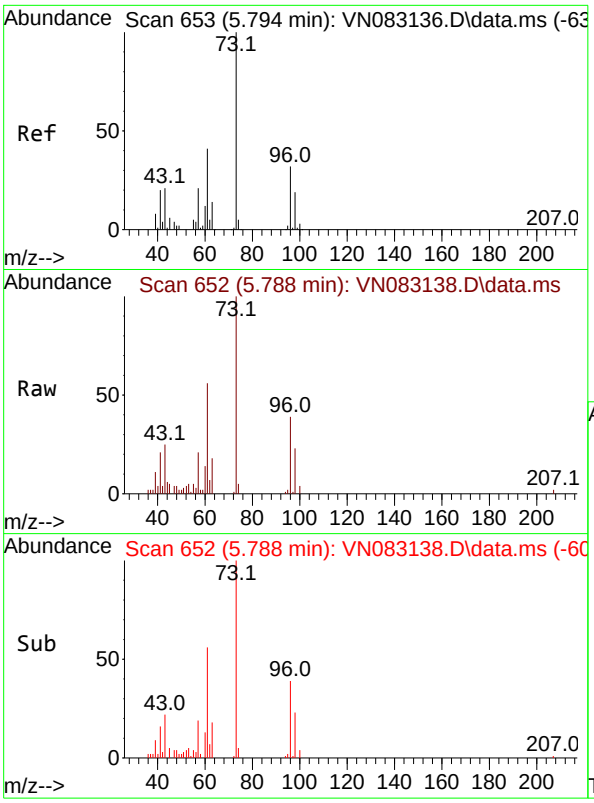


#20
Methylene Chloride
Concen: 9.582 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

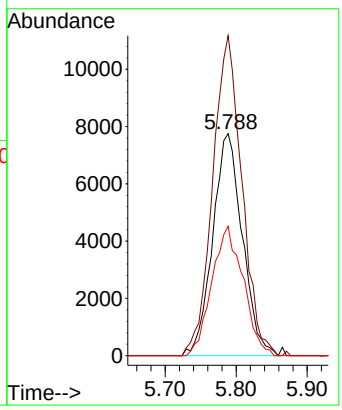




#21
trans-1,2-Dichloroethene
Concen: 10.229 ug/l
RT: 5.788 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 96 Resp: 2247

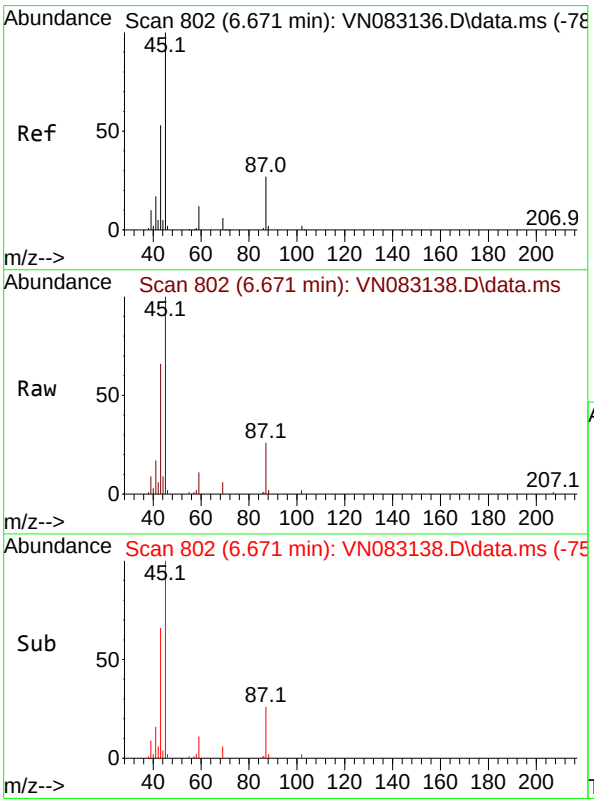
Ion	Ratio	Lower	Upper
96	100		
61	144.0	123.4	185.2
98	58.3	49.3	73.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

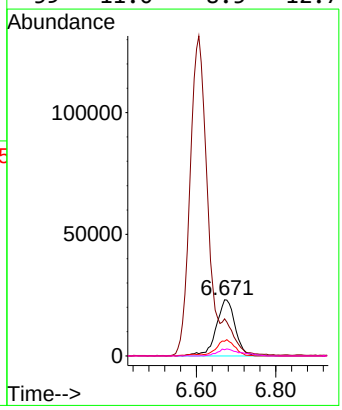
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

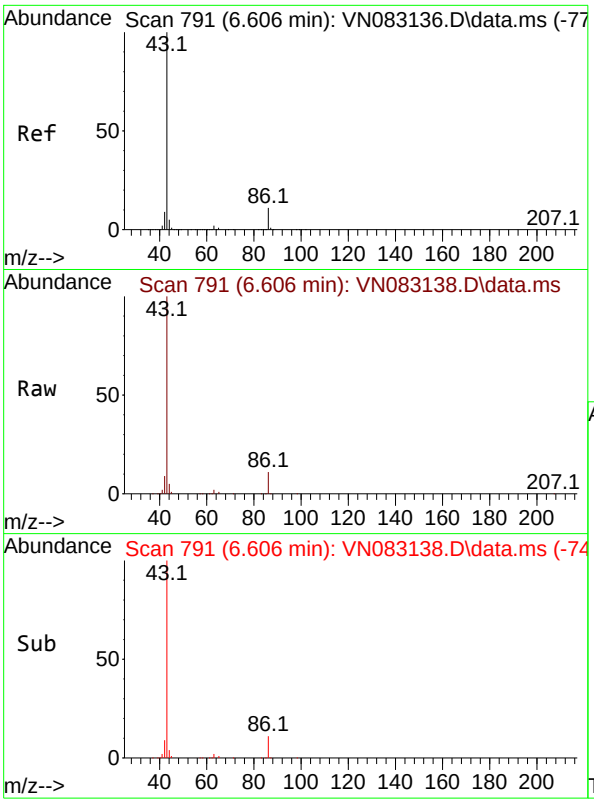


#22
Diisopropyl ether
Concen: 10.204 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

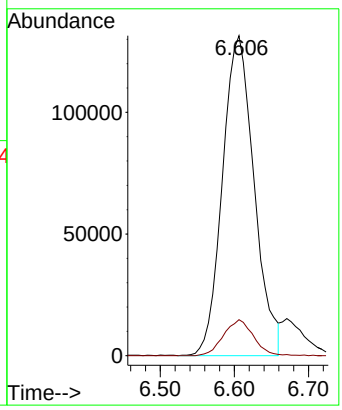
Tgt Ion: 43 Resp: 39115

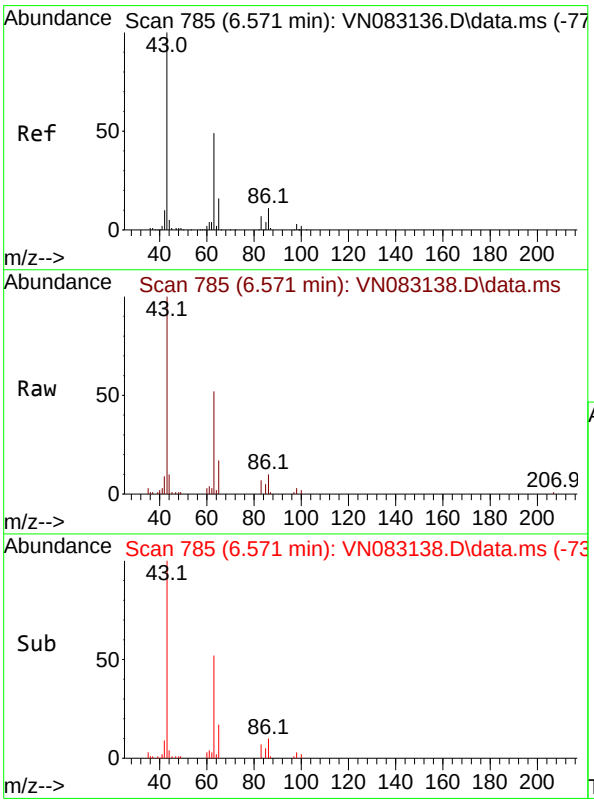
Ion	Ratio	Lower	Upper
43	100		
86	11.2	7.3	10.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

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

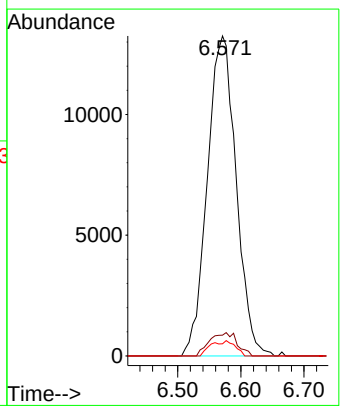


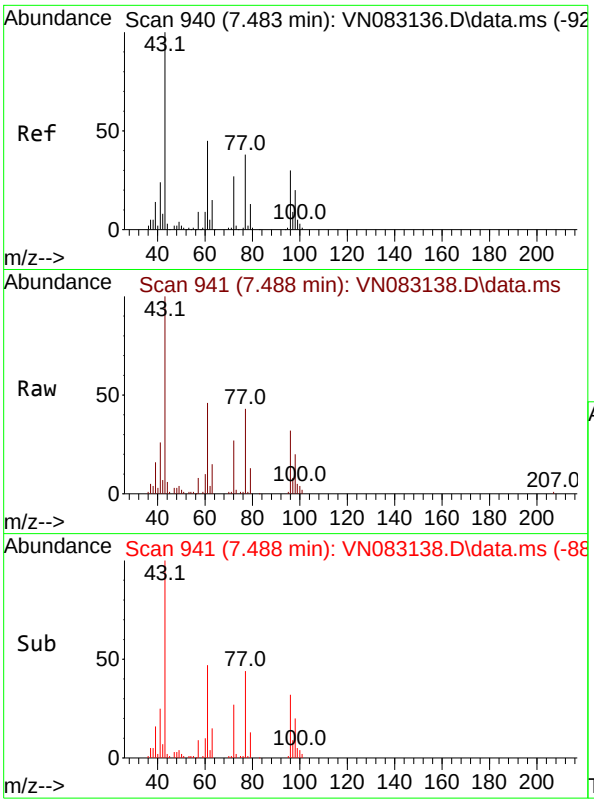


#24
1,1-Dichloroethane
Concen: 10.213 ug/l
RT: 6.571 min Scan# 785
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

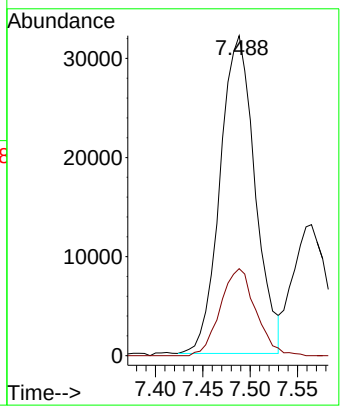




#25
2-Butanone
Concen: 50.278 ug/l
RT: 7.488 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 43 Resp: 8245

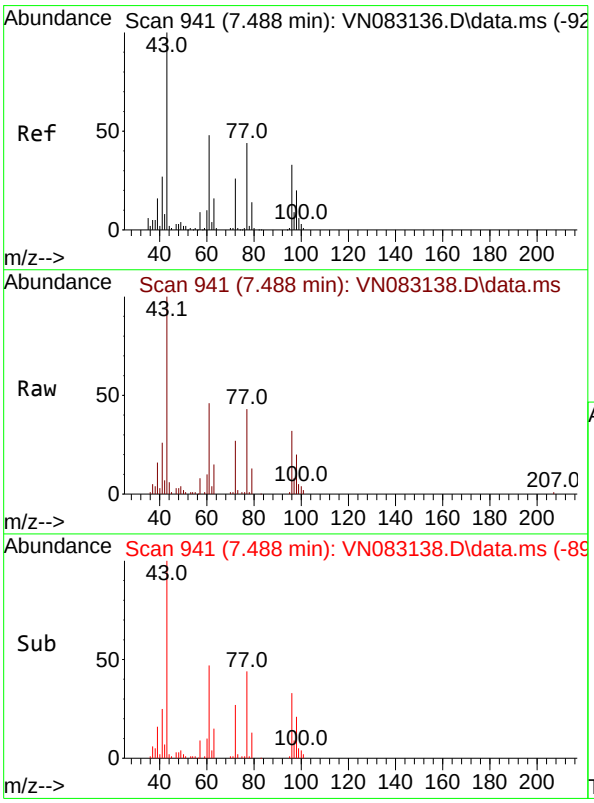
Ion	Ratio	Lower	Upper
43	100		
72	27.4	18.2	27.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

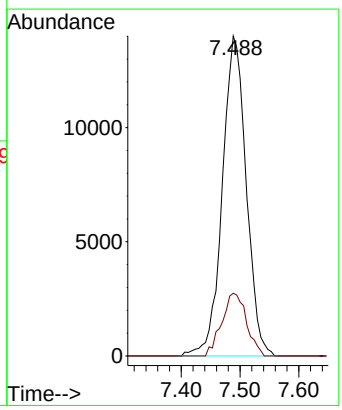
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

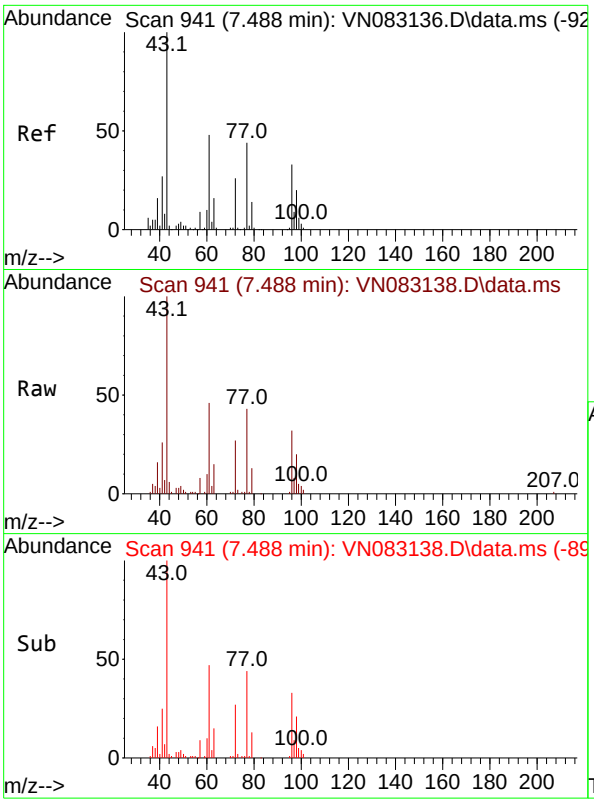


#26
2,2-Dichloropropane
Concen: 10.351 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 77 Resp: 39561

Ion	Ratio	Lower	Upper
77	100		
97	20.2	10.3	30.9

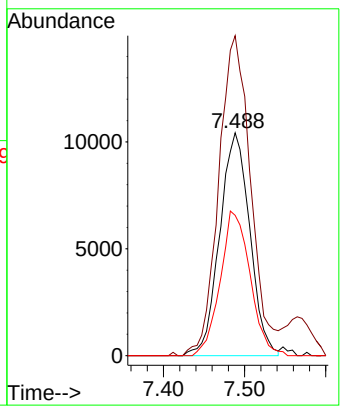




#27
cis-1,2-Dichloroethene
Concen: 10.148 ug/l
RT: 7.488 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 96 Resp: 2690

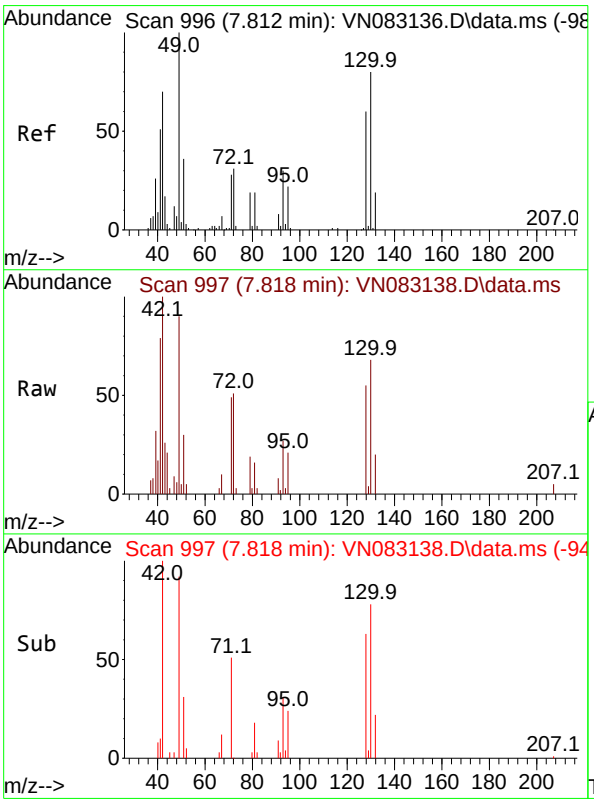
Ion	Ratio	Lower	Upper
96	100		
61	152.1	0.0	329.6
98	64.4	0.0	128.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

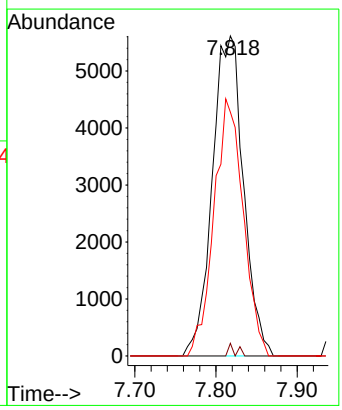
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

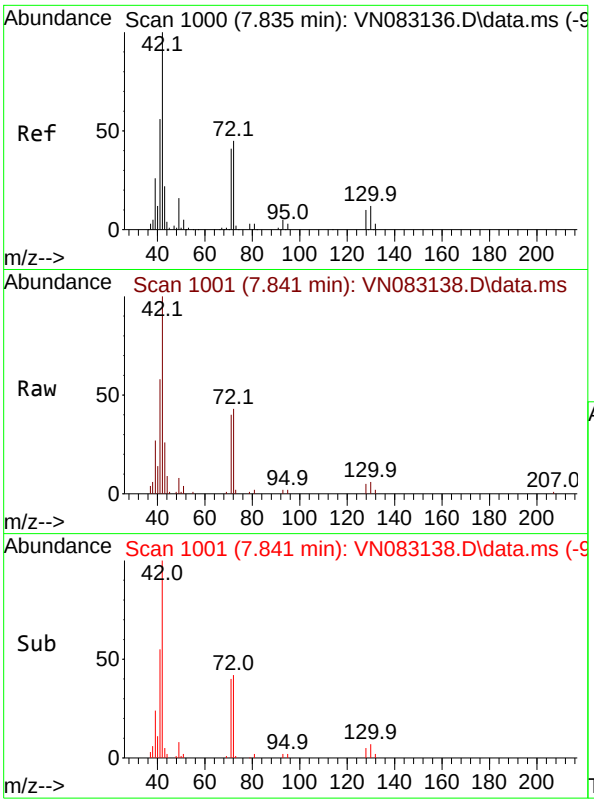


#28
Bromochloromethane
Concen: 8.916 ug/l
RT: 7.818 min Scan# 997
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

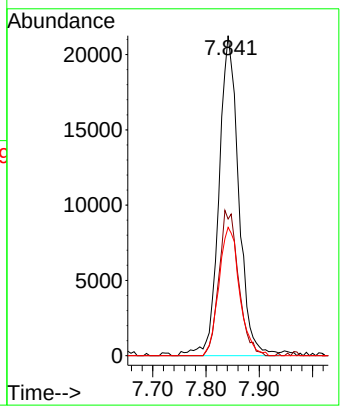




#29
Tetrahydrofuran
Concen: 51.708 ug/l
RT: 7.841 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 42 Resp: 5481

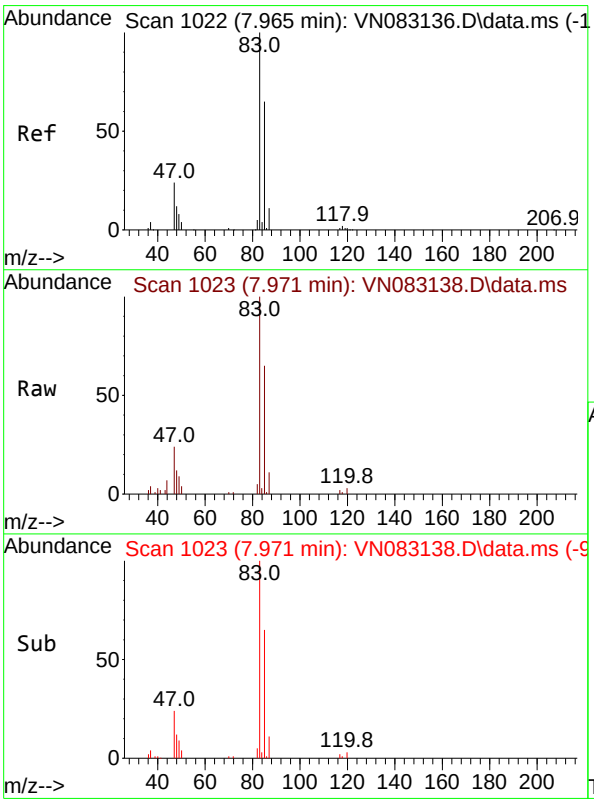
Ion	Ratio	Lower	Upper
42	100		
72	44.9	30.0	45.0
71	41.8	28.3	42.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

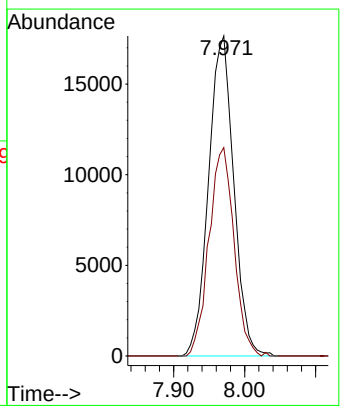
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

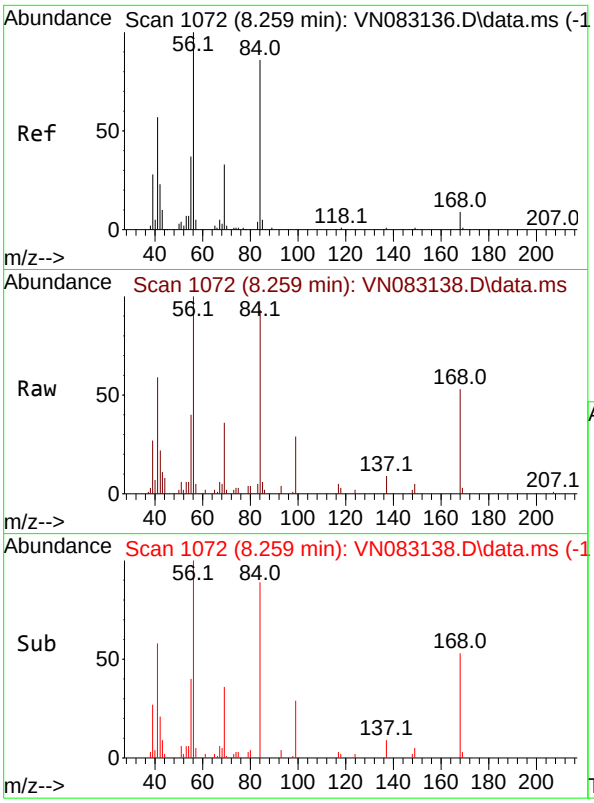


#30
Chloroform
Concen: 10.155 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 83 Resp: 43421

Ion	Ratio	Lower	Upper
83	100		
85	65.1	50.9	76.3

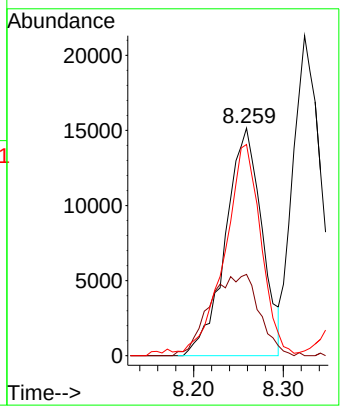




#31
Cyclohexane
Concen: 10.523 ug/l
RT: 8.259 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 56 Resp: 4256

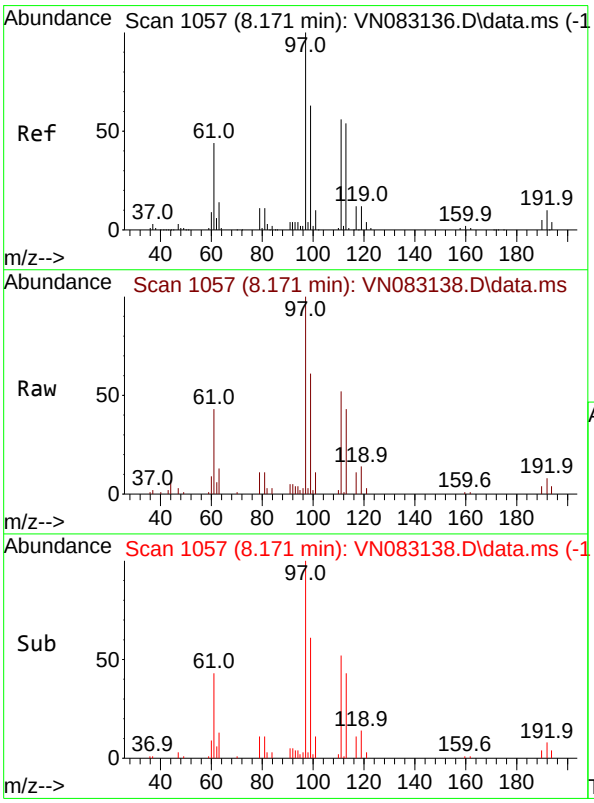
Ion	Ratio	Lower	Upper
56	100		
69	34.0	24.5	36.7
84	90.8	66.0	99.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

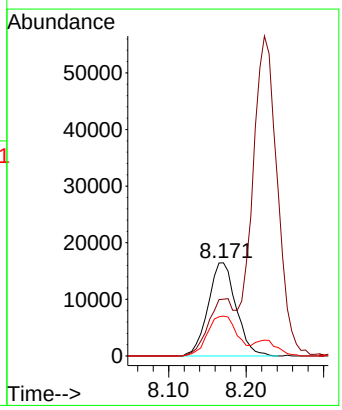
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

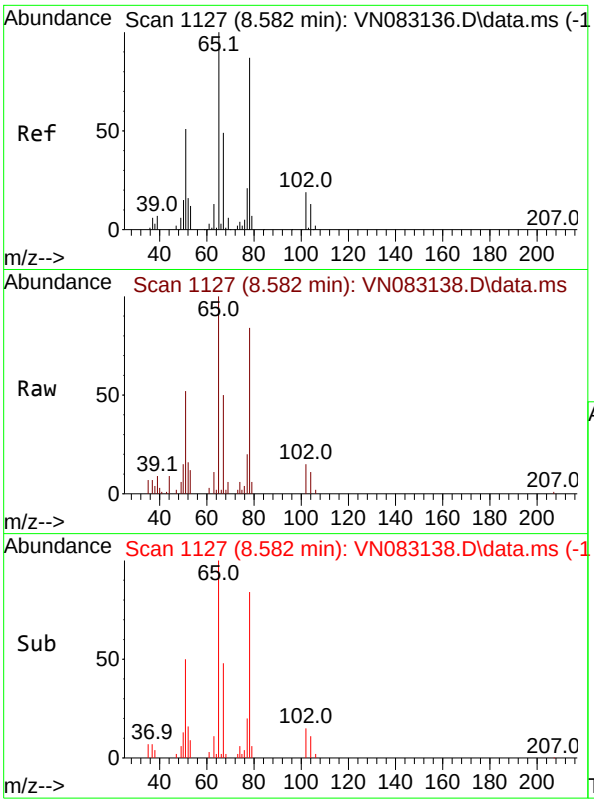


#32
1,1,1-Trichloroethane
Concen: 10.191 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

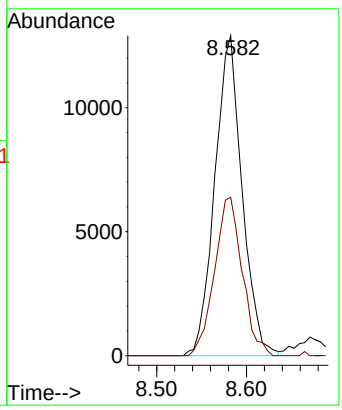




#33
1,2-Dichloroethane-d4
Concen: 9.974 ug/l
RT: 8.582 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 65 Resp: 2722

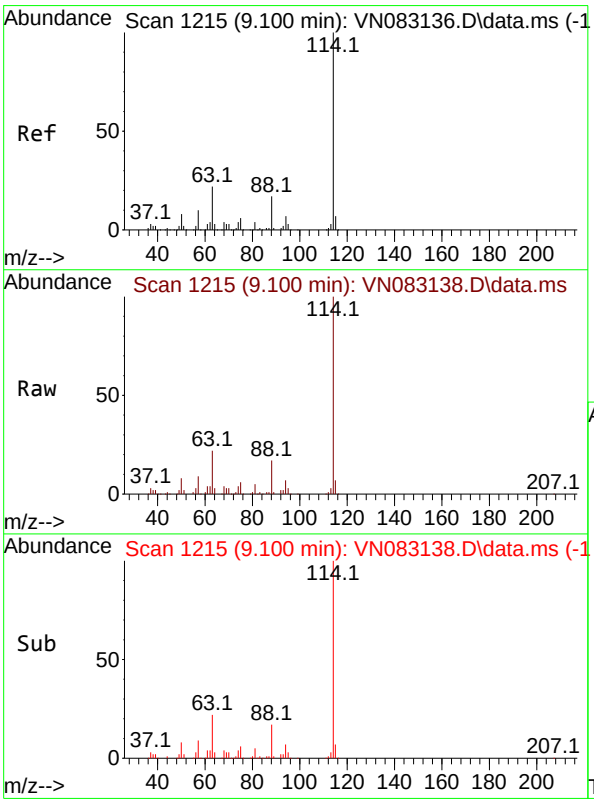
Ion	Ratio	Lower	Upper
65	100		
67	50.3	0.0	104.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

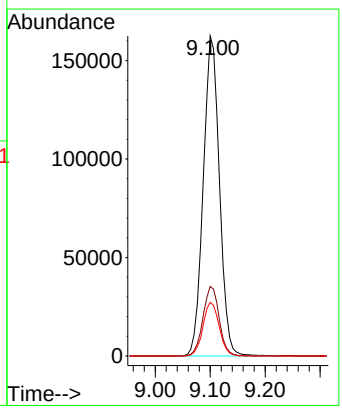
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

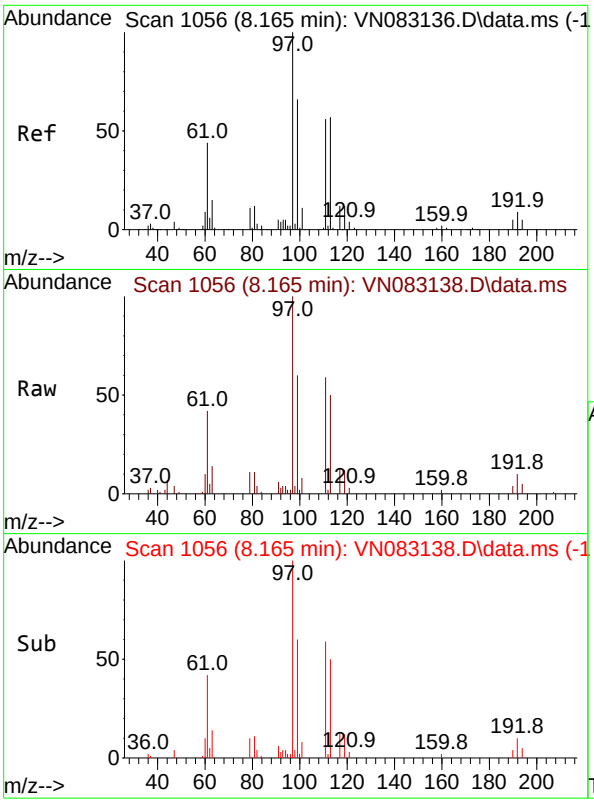


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

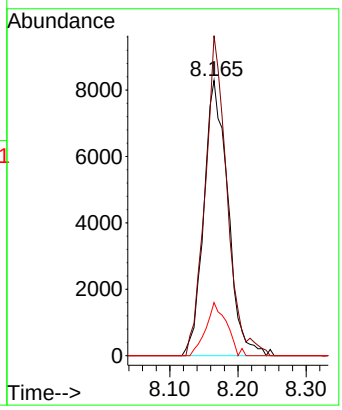




#35
Dibromofluoromethane
Concen: 9.832 ug/l
RT: 8.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:113 Resp: 2038

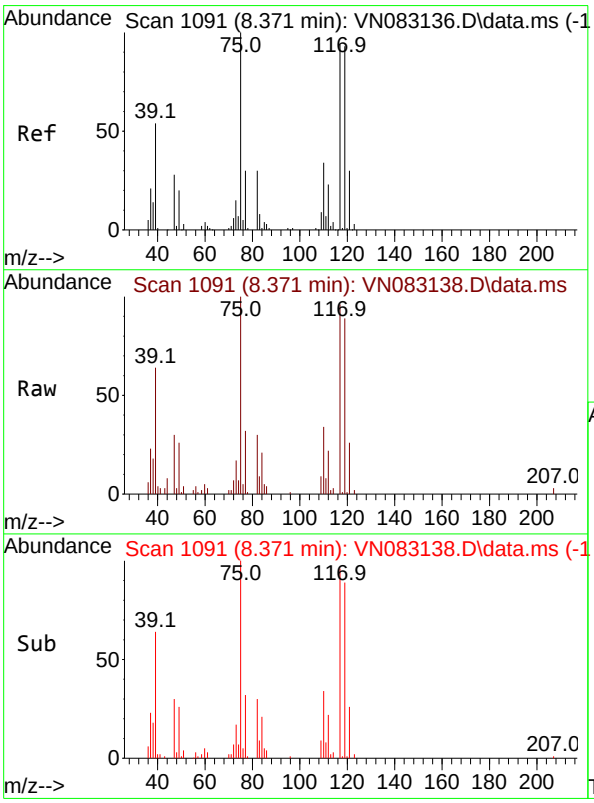
Ion	Ratio	Lower	Upper
113	100		
111	105.9	82.4	123.6
192	16.7	14.9	22.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

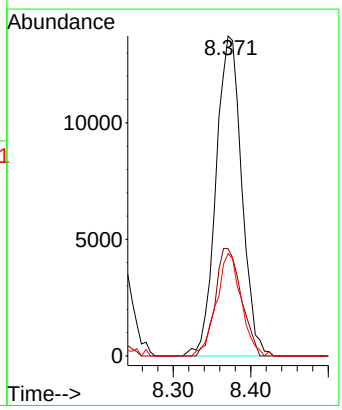
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

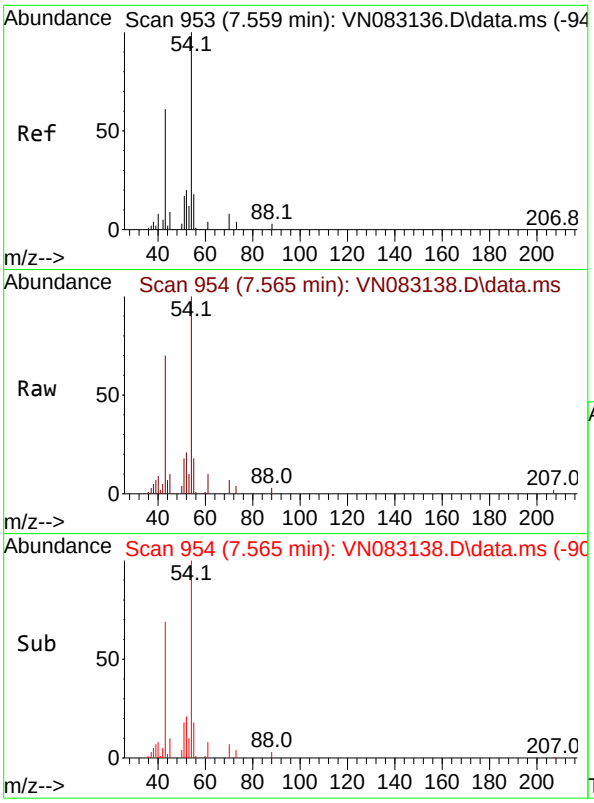


#36
1,1-Dichloropropene
Concen: 10.103 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

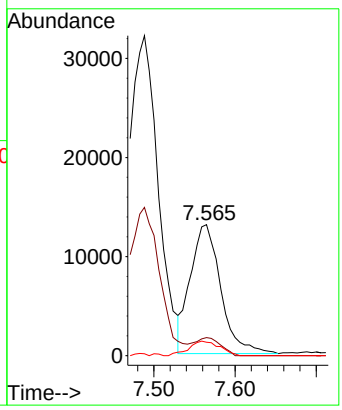




#37
Ethyl Acetate
Concen: 9.685 ug/l
RT: 7.565 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 43 Resp: 3400

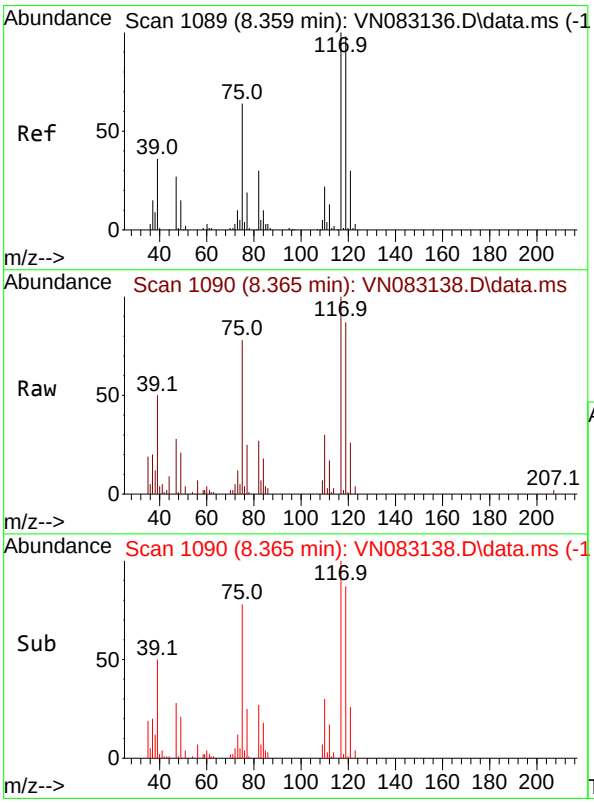
Ion	Ratio	Lower	Upper
43	100		
61	12.0	9.3	13.9
70	11.4	7.0	10.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

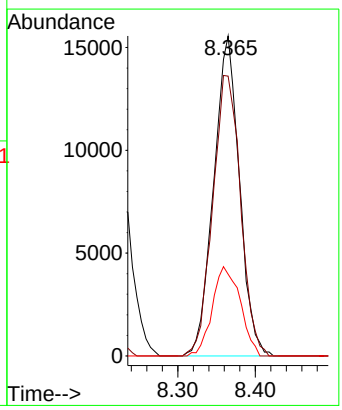
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

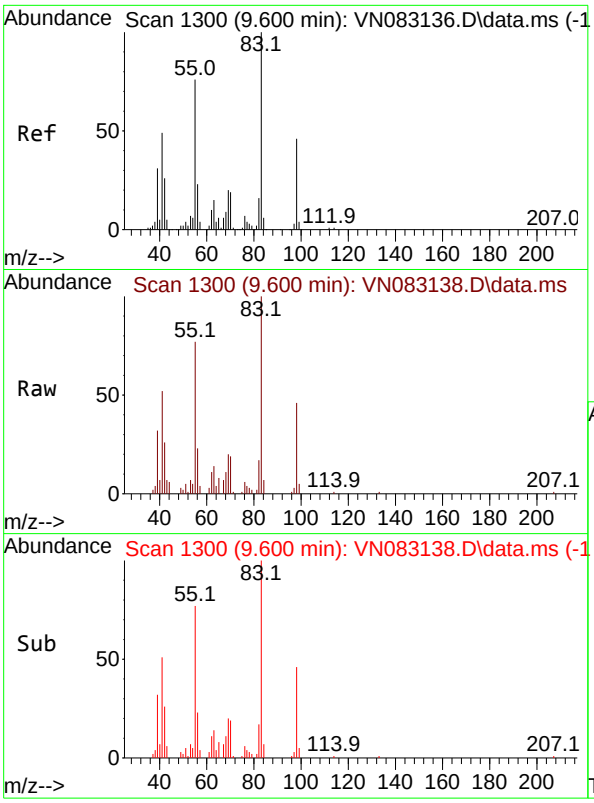


#38
Carbon Tetrachloride
Concen: 10.179 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

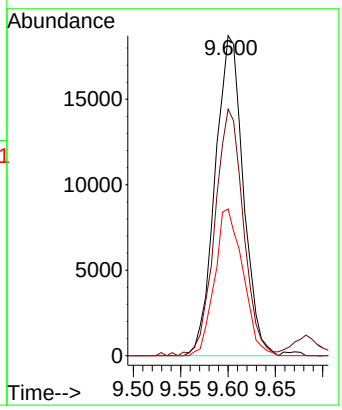
Tgt Ion: 83 Resp: 3873

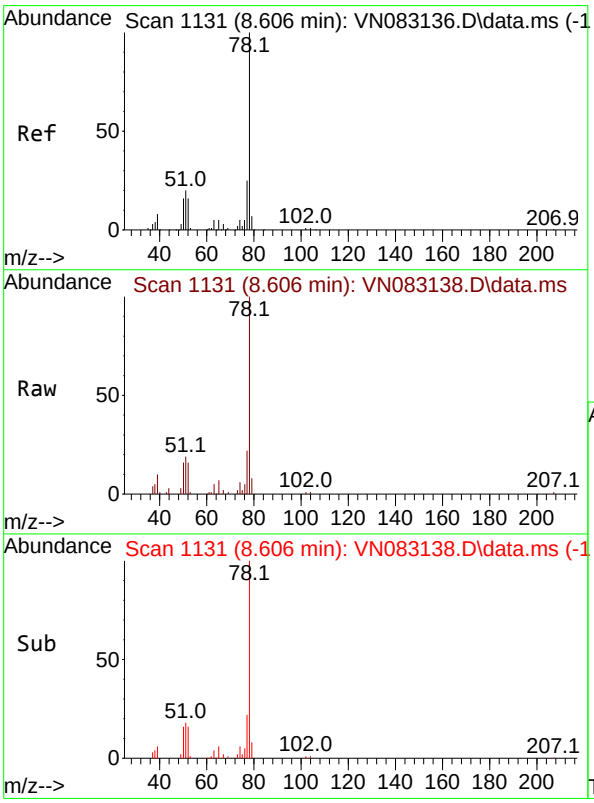
Ion	Ratio	Lower	Upper
83	100		
55	77.1	66.4	99.6
98	45.9	40.7	61.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

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

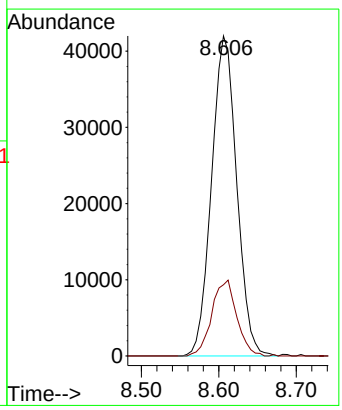


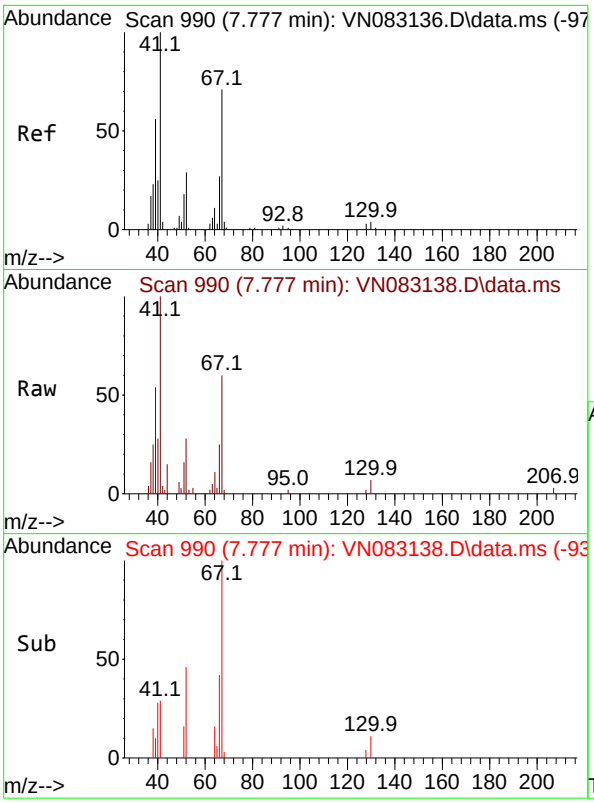


#40
Benzene
Concen: 10.157 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 78 Resp: 94885

Ion	Ratio	Lower	Upper
78	100		
77	22.2	19.0	28.4

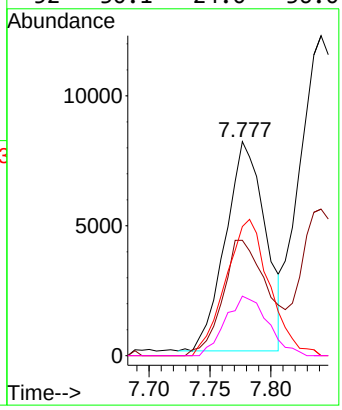




#41
Methacrylonitrile
Concen: 9.213 ug/l
RT: 7.777 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 41 Resp: 1839

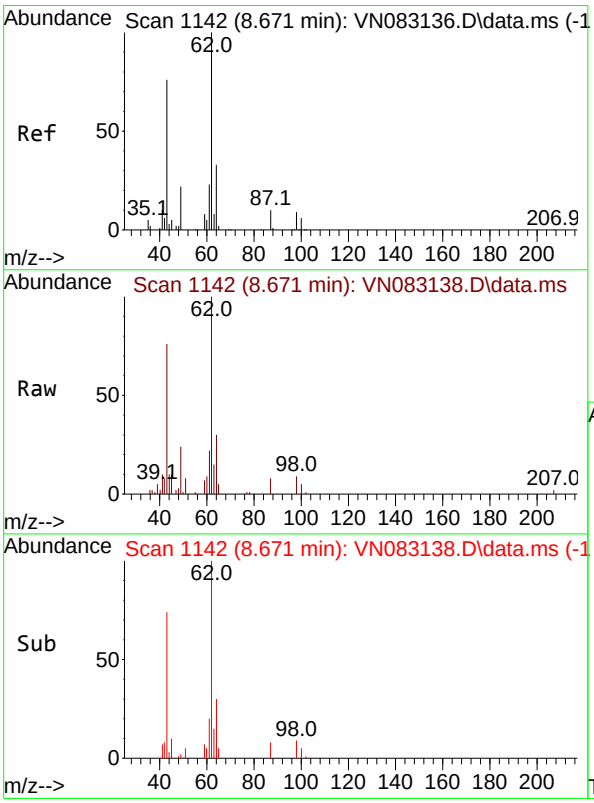
Ion	Ratio	Lower	Upper
41	100		
39	62.6	45.5	68.3
67	71.3	50.5	75.7
52	30.1	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

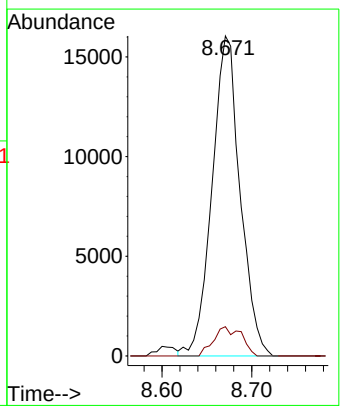
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

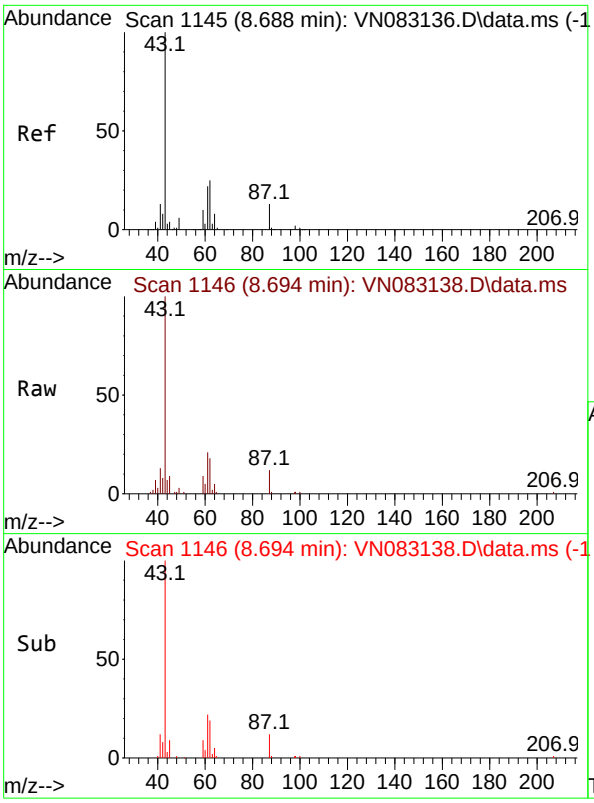


#42
1,2-Dichloroethane
Concen: 10.234 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 62 Resp: 34826

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	15.8

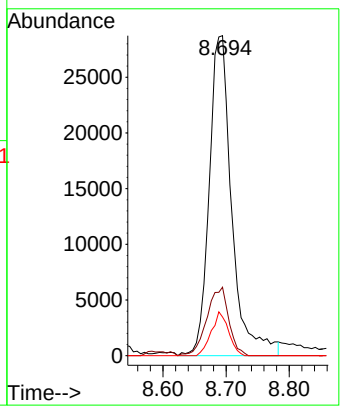




#43
Isopropyl Acetate
Concen: 10.170 ug/l
RT: 8.694 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 43 Resp: 7142

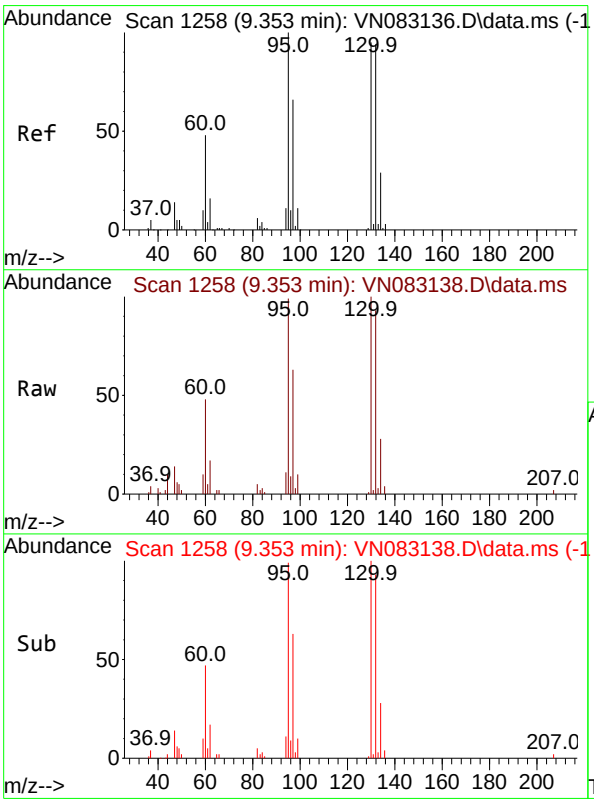
Ion	Ratio	Lower	Upper
43	100		
61	20.7	17.8	26.6
87	10.4	8.2	12.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

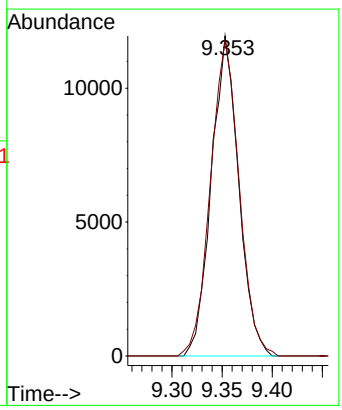
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

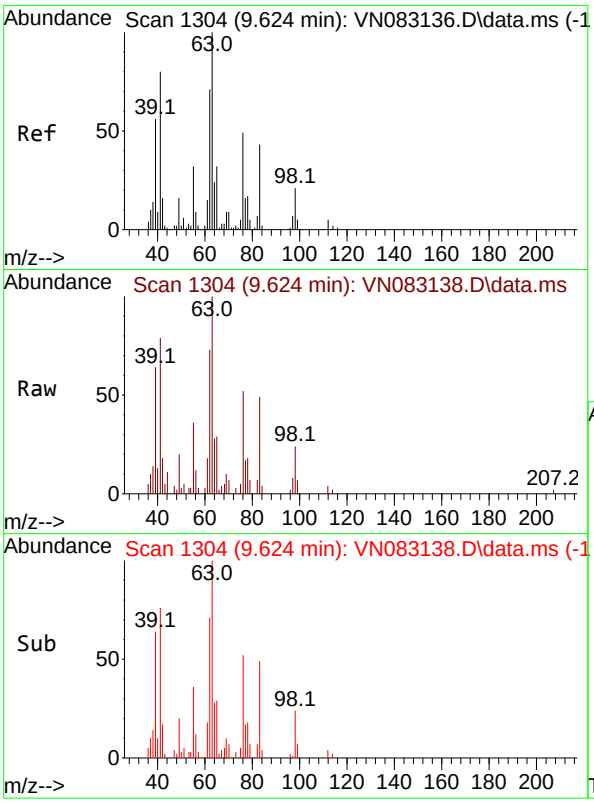


#44
Trichloroethene
Concen: 10.195 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:130 Resp: 22669

Ion	Ratio	Lower	Upper
130	100		
95	98.5	0.0	197.8

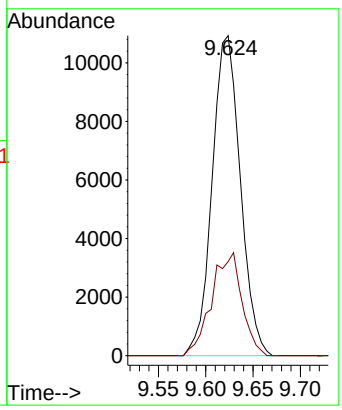




#45
1,2-Dichloropropane
Concen: 10.211 ug/l
RT: 9.624 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 63 Resp: 2264

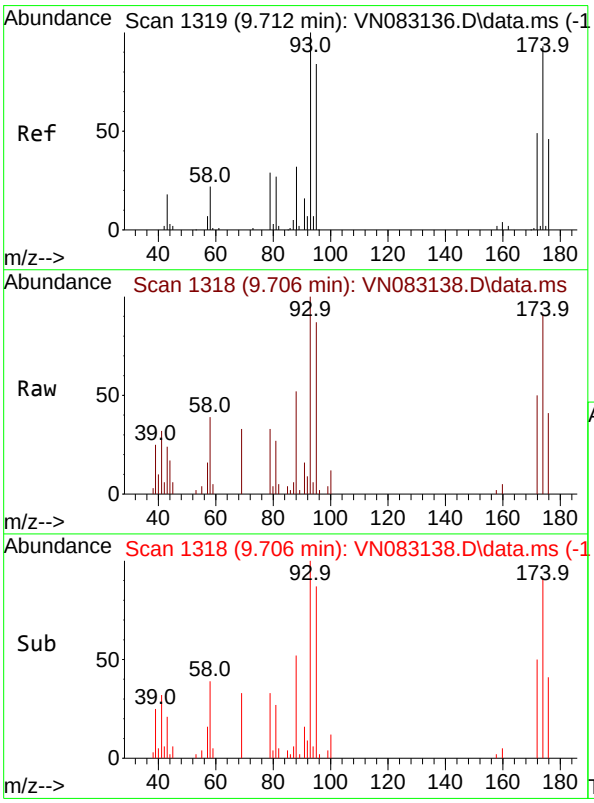
Ion	Ratio	Lower	Upper
63	100		
65	29.4	24.4	36.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

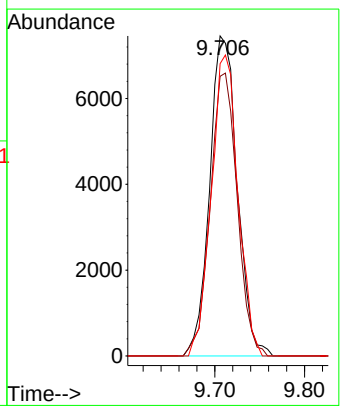
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

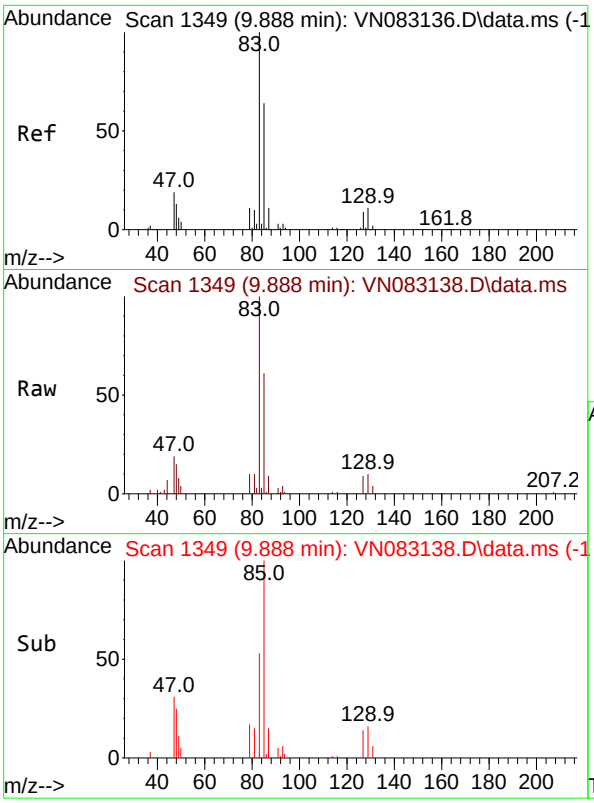


#46
Dibromomethane
Concen: 10.041 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

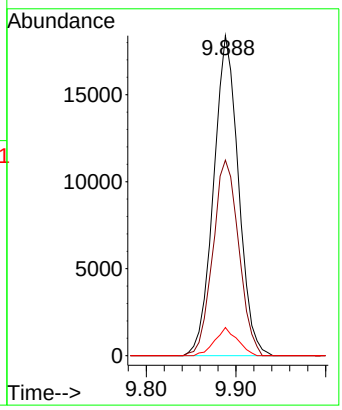




#47
Bromodichloromethane
Concen: 9.930 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 83 Resp: 3538

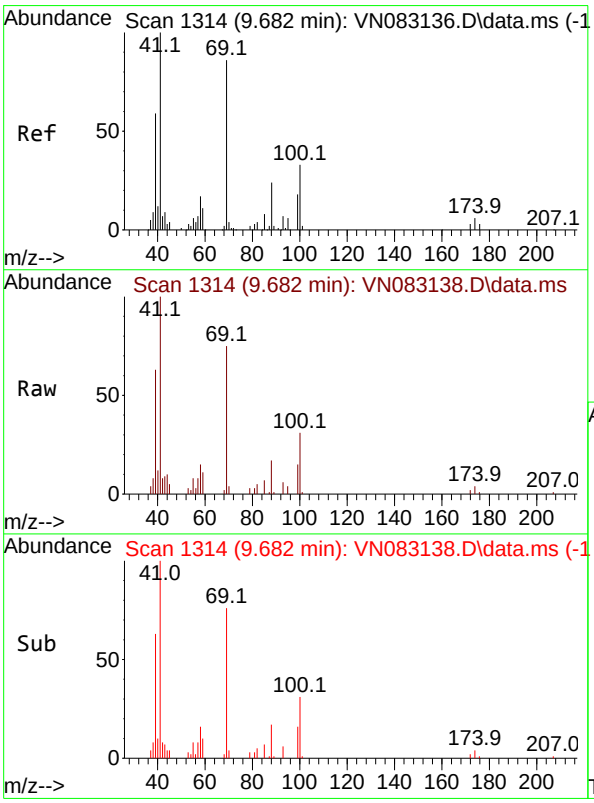
Ion	Ratio	Lower	Upper
83	100		
85	61.1	51.1	76.7
127	8.8	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

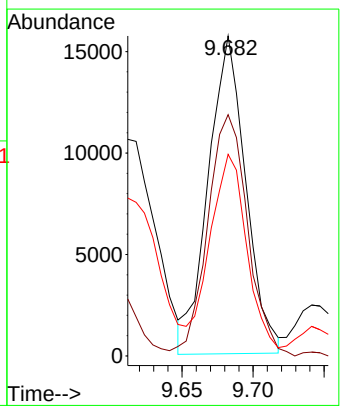
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

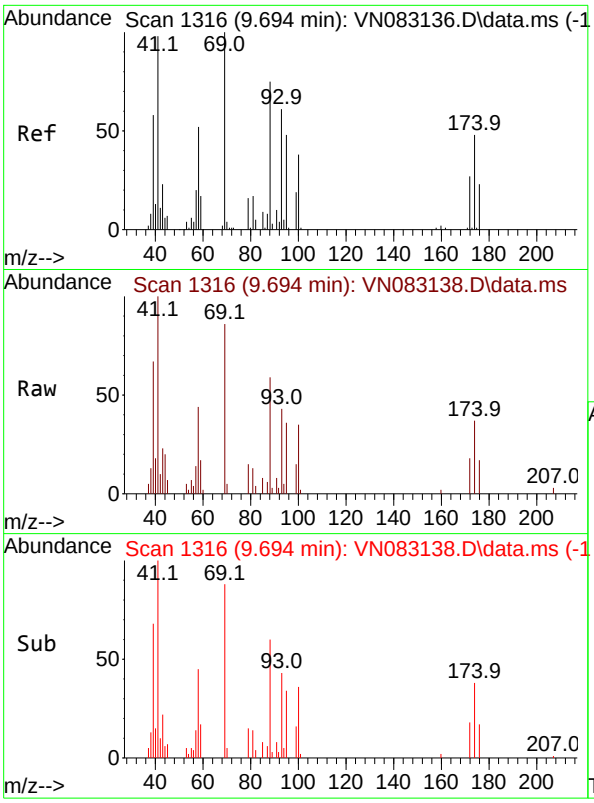


#48
Methyl methacrylate
Concen: 9.891 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

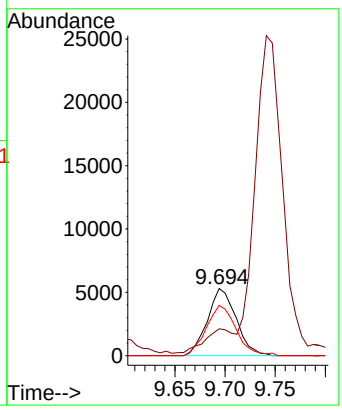
Tgt Ion: 88 Resp: 1054

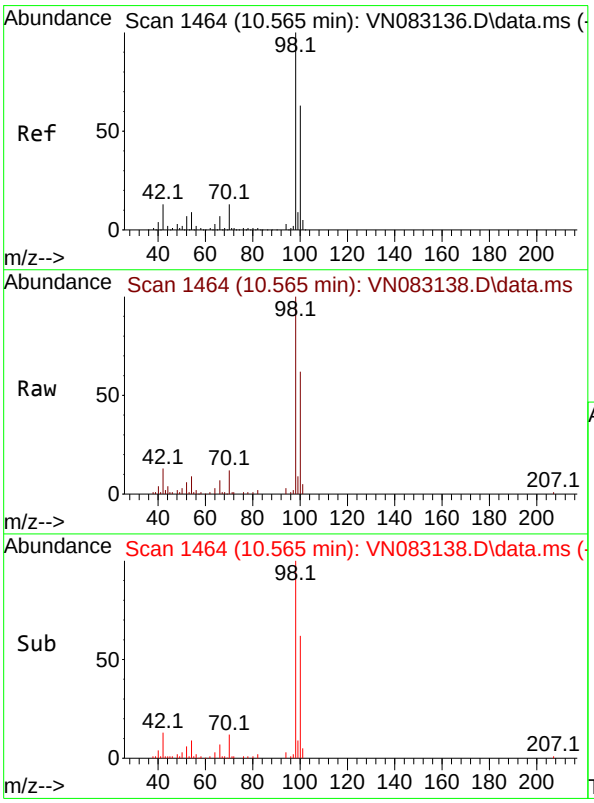
Ion	Ratio	Lower	Upper
88	100		
43	39.2	27.8	41.8
58	77.8	59.4	89.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

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

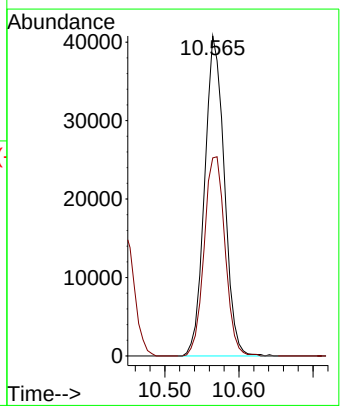


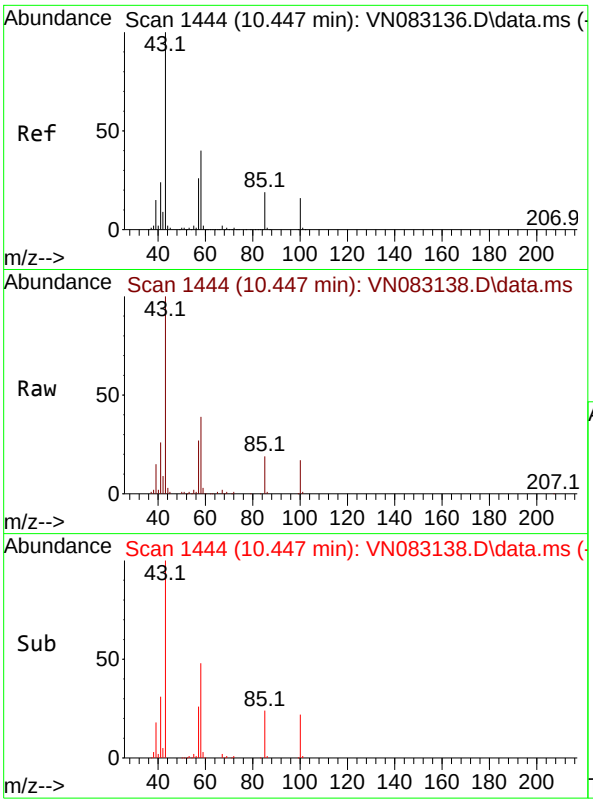


#50
Toluene-d8
Concen: 9.733 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

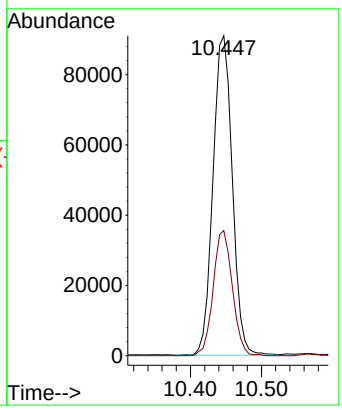
Tgt Ion: 43 Resp: 17127

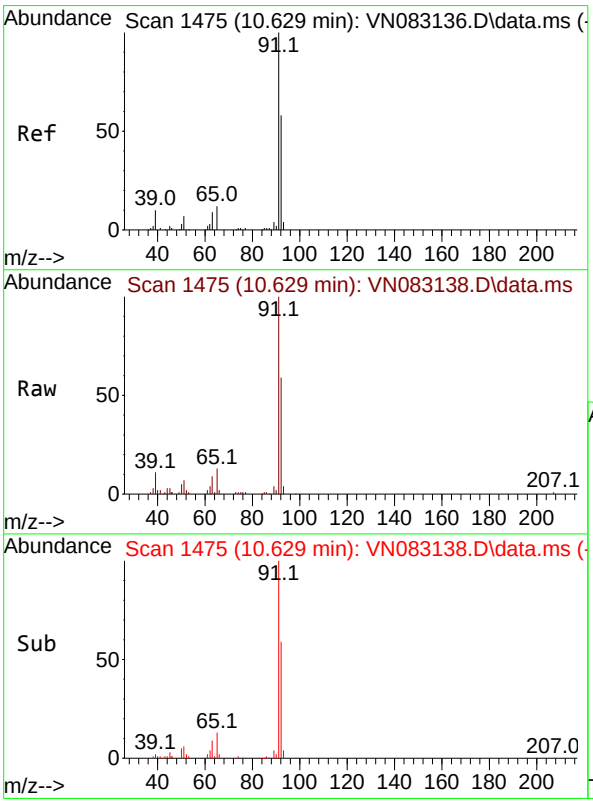
Ion	Ratio	Lower	Upper
43	100		
58	38.8	28.2	42.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

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

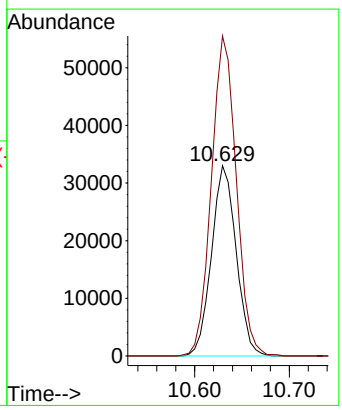


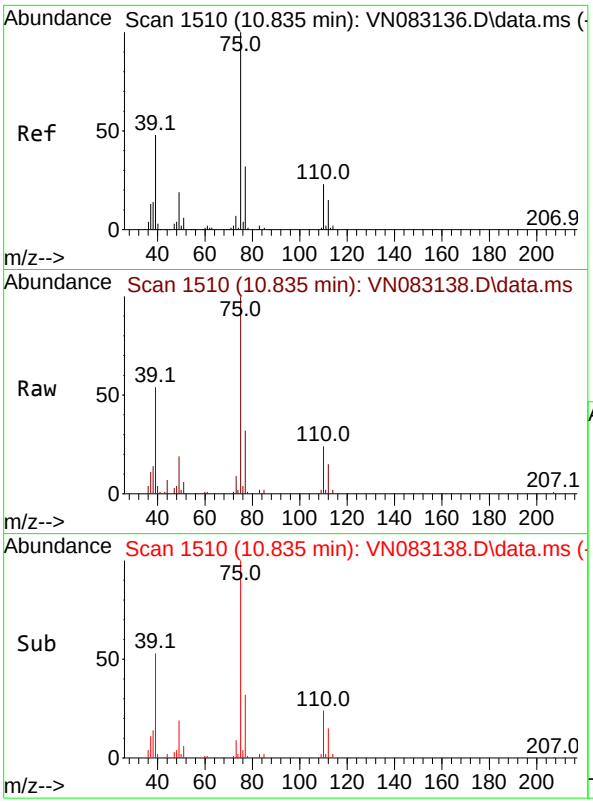


#52
Toluene
Concen: 10.129 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 92 Resp: 59784

Ion	Ratio	Lower	Upper
92	100		
91	170.0	139.4	209.0

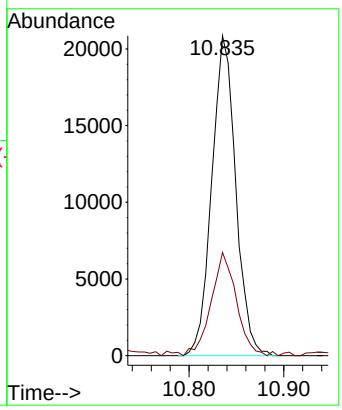




#53
t-1,3-Dichloropropene
Concen: 10.017 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 75 Resp: 3667

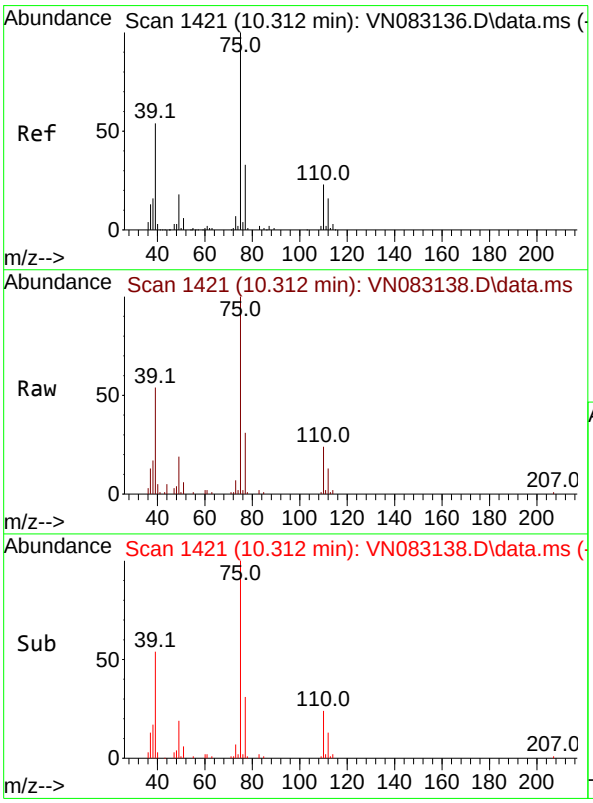
Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

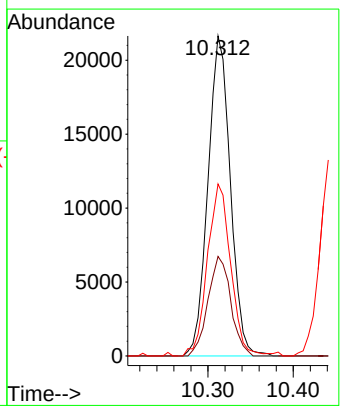
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

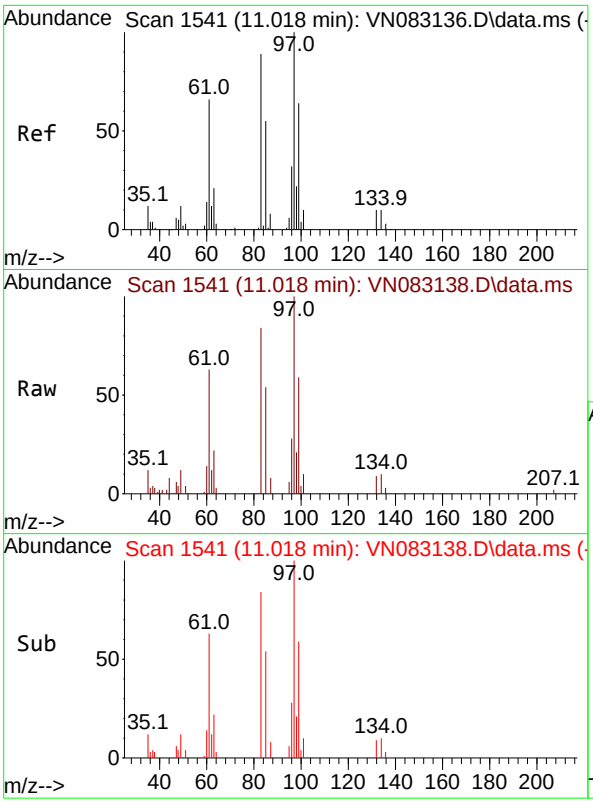


#54
cis-1,3-Dichloropropene
Concen: 10.145 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

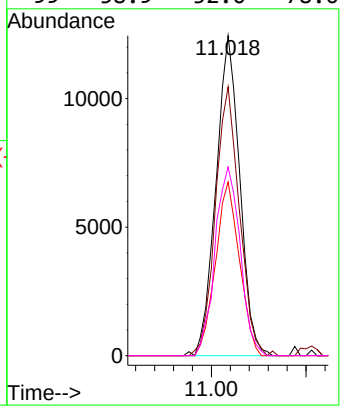




#55
1,1,2-Trichloroethane
Concen: 10.274 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 97 Resp: 2173

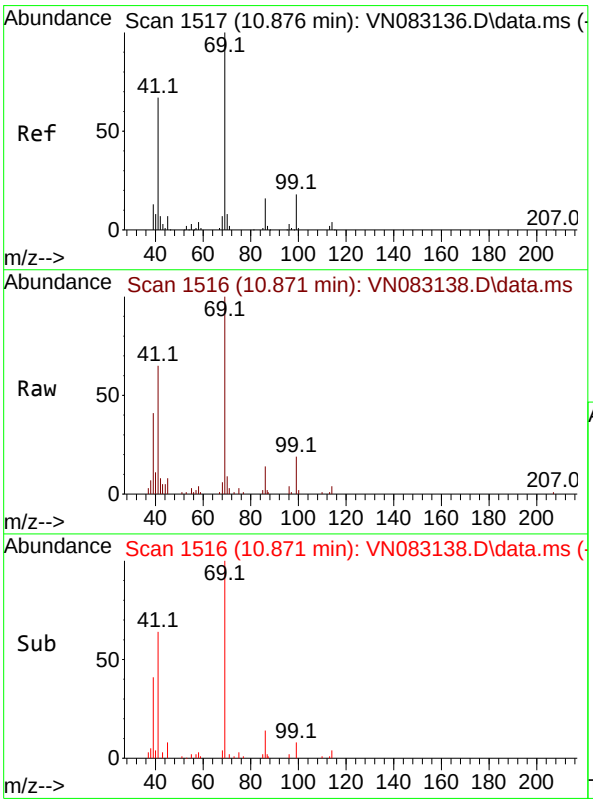
Ion	Ratio	Lower	Upper
97	100		
83	84.0	71.4	107.0
85	54.3	45.8	68.6
99	58.9	52.0	78.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

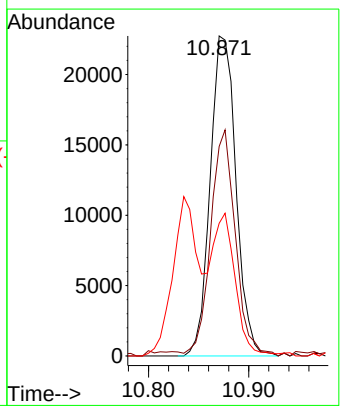
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

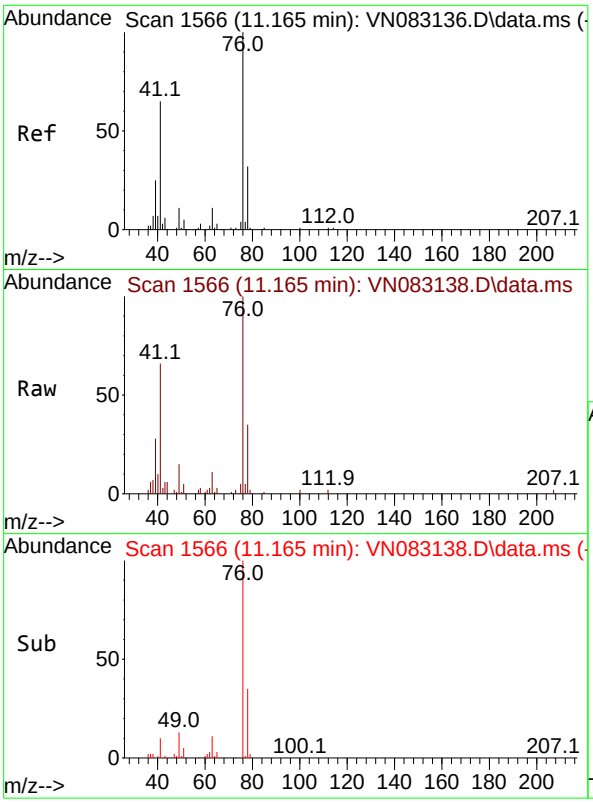


#56
Ethyl methacrylate
Concen: 10.201 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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#

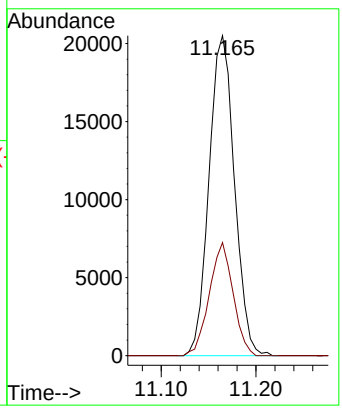




#57
1,3-Dichloropropane
Concen: 10.132 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 76 Resp: 3820

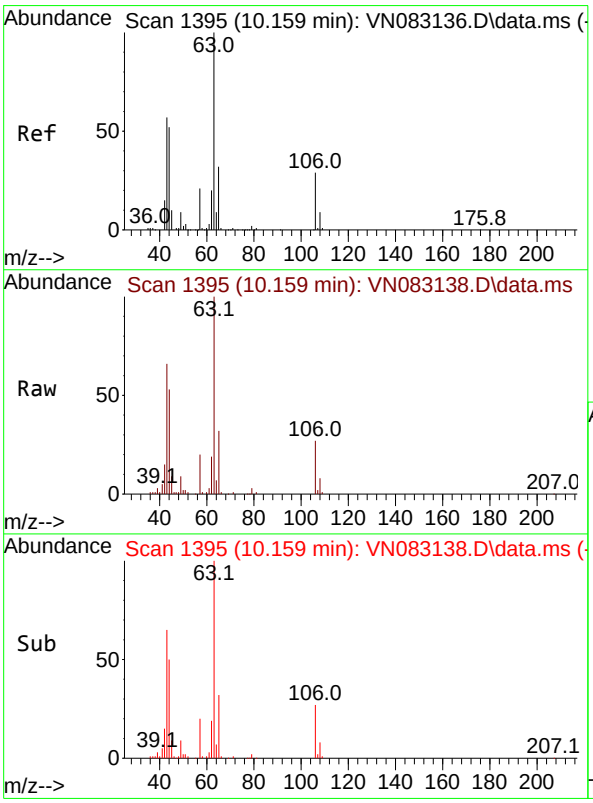
Ion	Ratio	Lower	Upper
76	100		
78	33.1	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

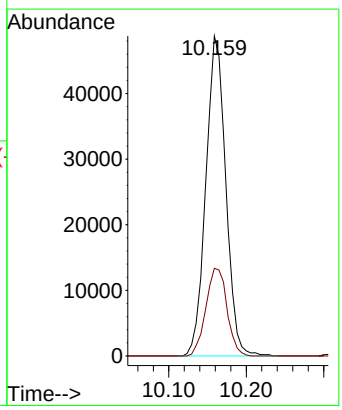
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

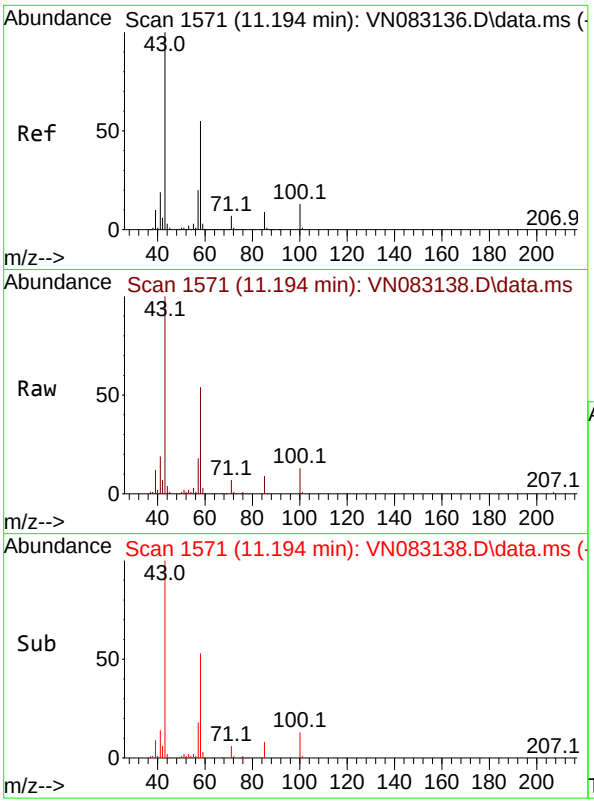


#58
2-Chloroethyl Vinyl ether
Concen: 51.698 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

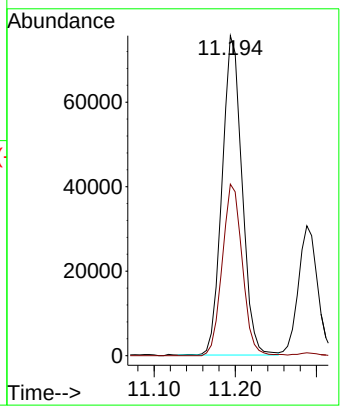
Tgt Ion: 43 Resp: 12923

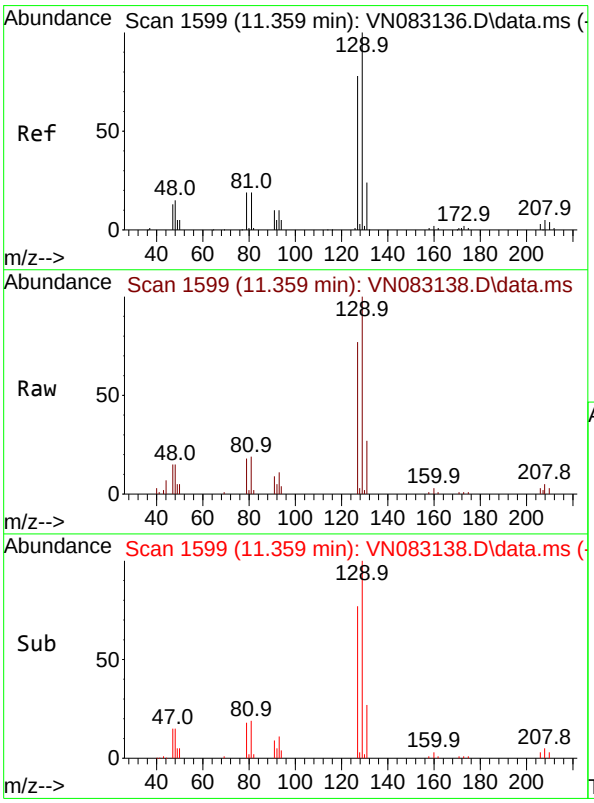
Ion	Ratio	Lower	Upper
43	100		
58	54.0	24.6	73.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

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

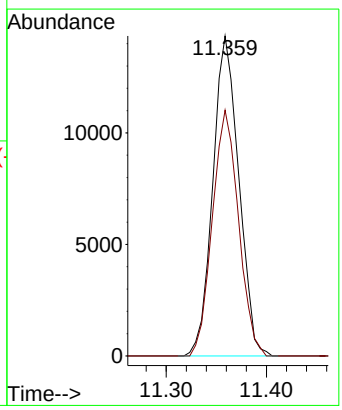


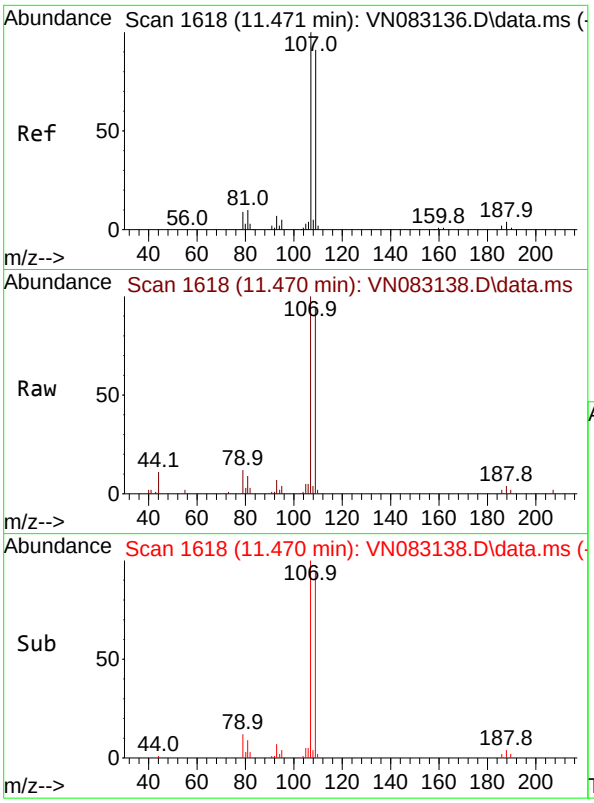


#60
Dibromochloromethane
Concen: 10.088 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

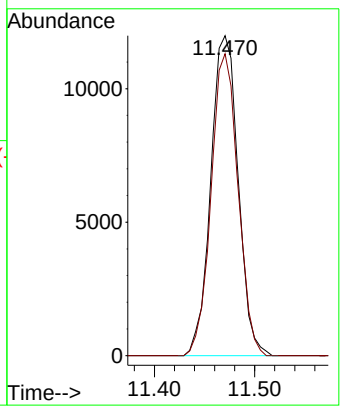
Tgt Ion:107 Resp: 2270

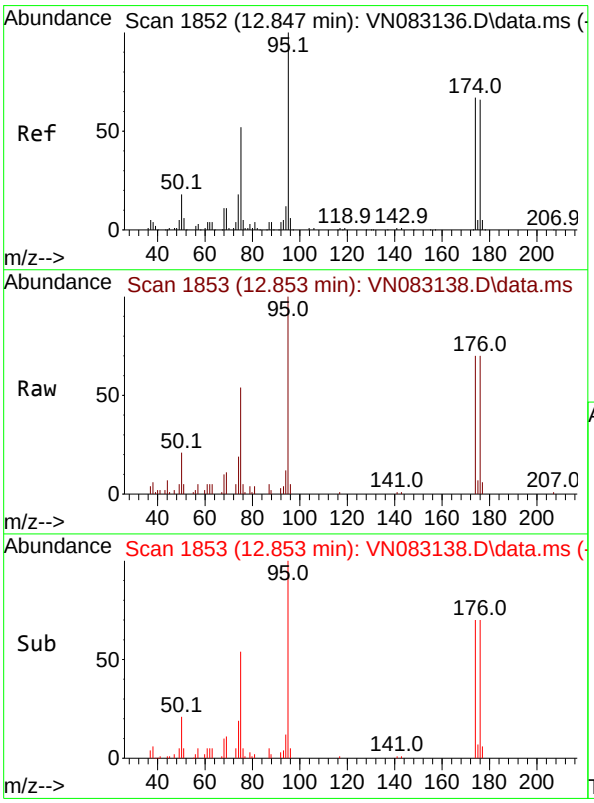
Ion	Ratio	Lower	Upper
107	100		
109	92.7	73.7	110.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

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

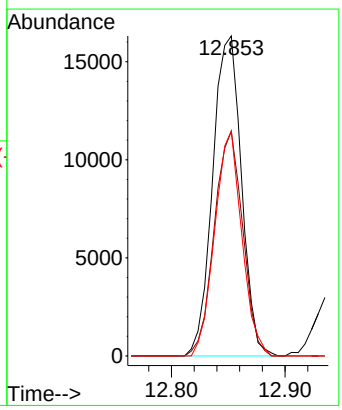


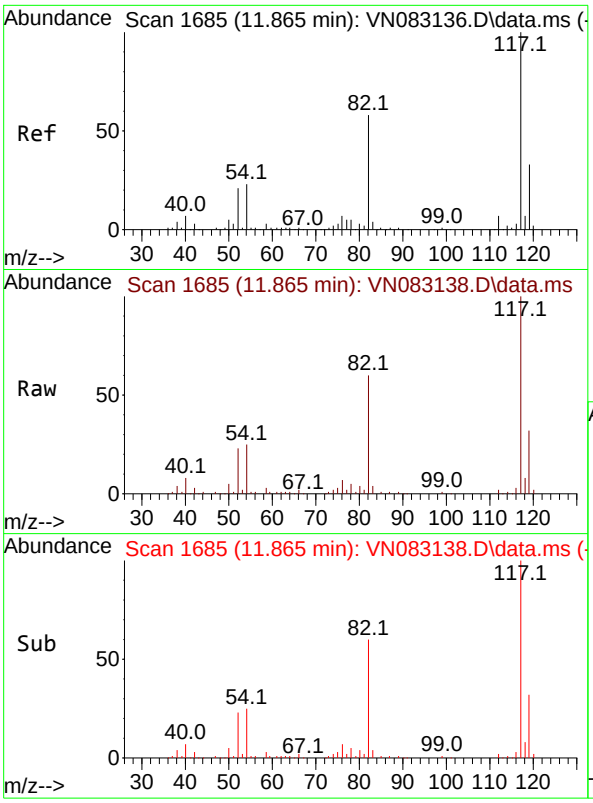


#62
4-Bromofluorobenzene
Concen: 9.517 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

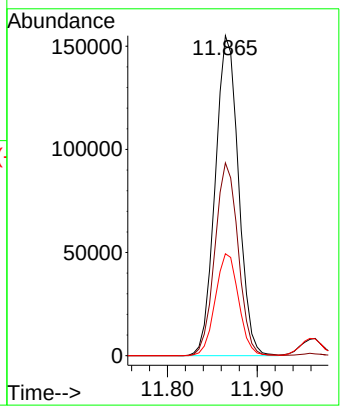




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:117 Resp: 27940

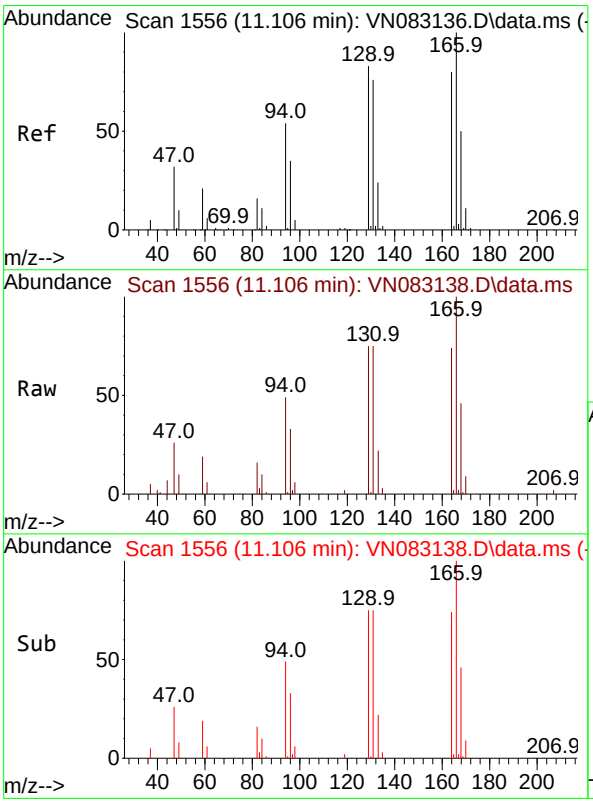
Ion	Ratio	Lower	Upper
117	100		
82	60.2	47.5	71.3
119	31.9	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

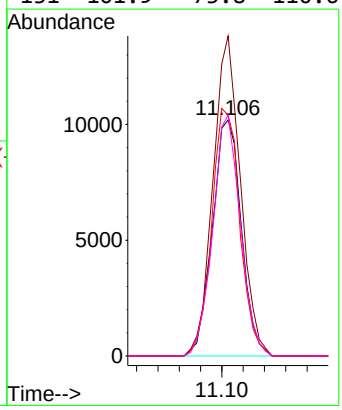
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

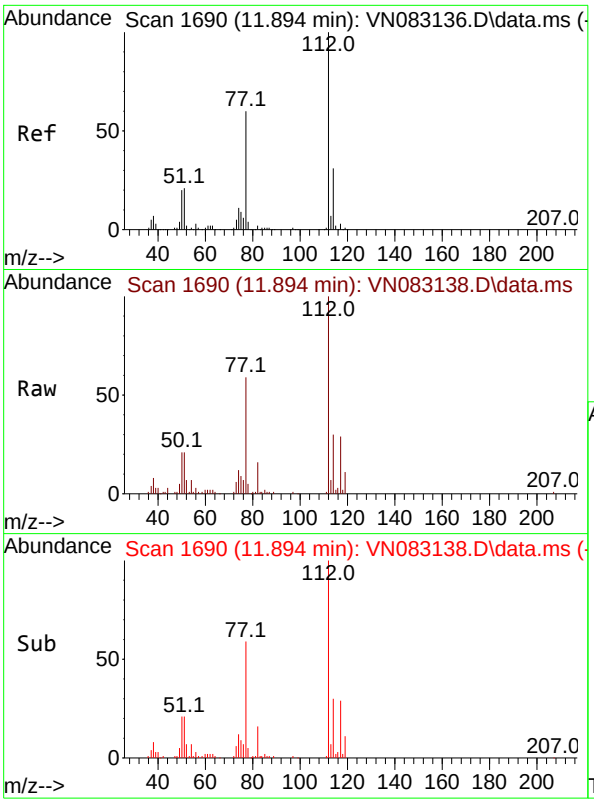


#64
Tetrachloroethene
Concen: 10.362 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

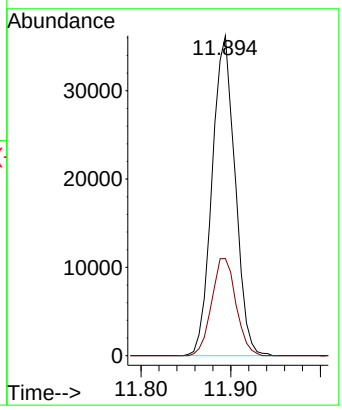




#65
Chlorobenzene
Concen: 10.437 ug/l
RT: 11.894 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:112 Resp: 6444

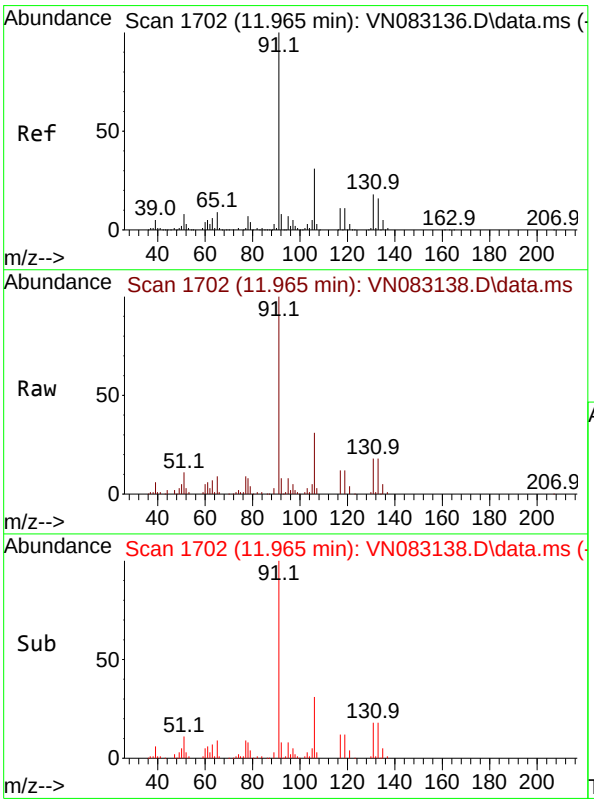
Ion	Ratio	Lower	Upper
112	100		
114	30.4	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

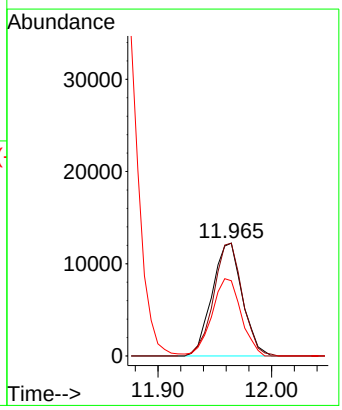
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

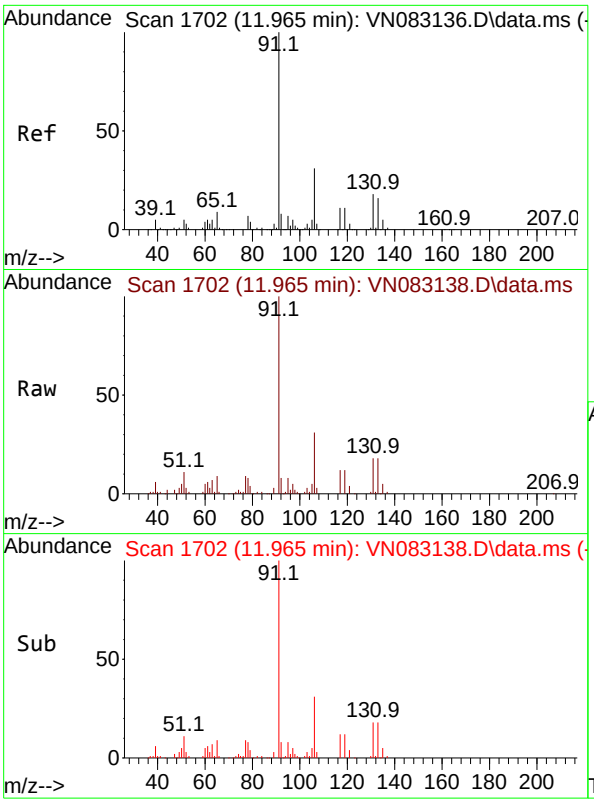


#66
1,1,1,2-Tetrachloroethane
Concen: 10.331 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

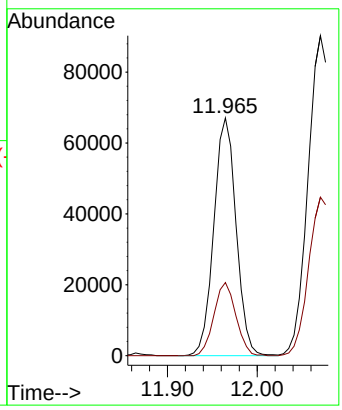
Tgt Ion: 91 Resp: 11566

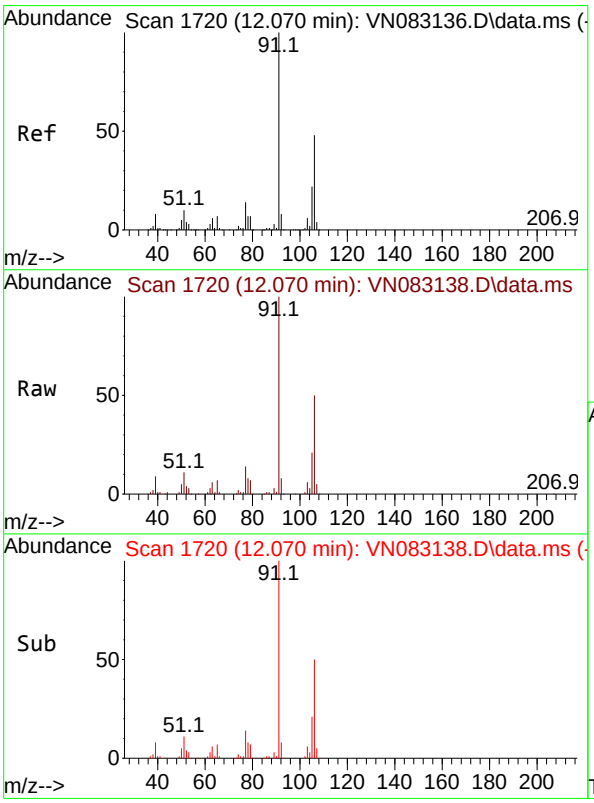
Ion	Ratio	Lower	Upper
91	100		
106	30.7	24.0	36.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

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

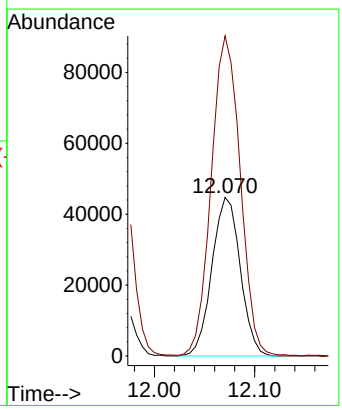


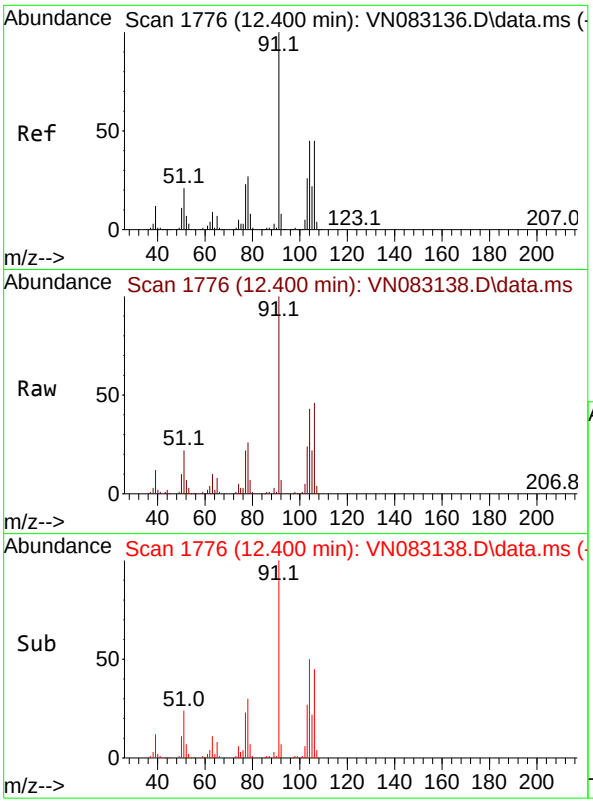


#68
m/p-Xylenes
Concen: 20.687 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

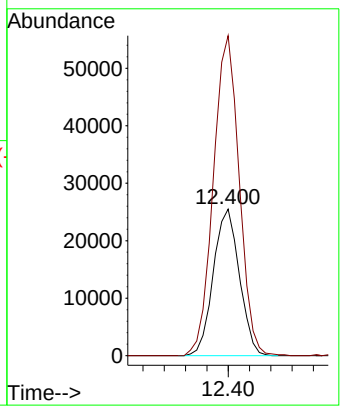
Tgt Ion:106 Resp: 4321

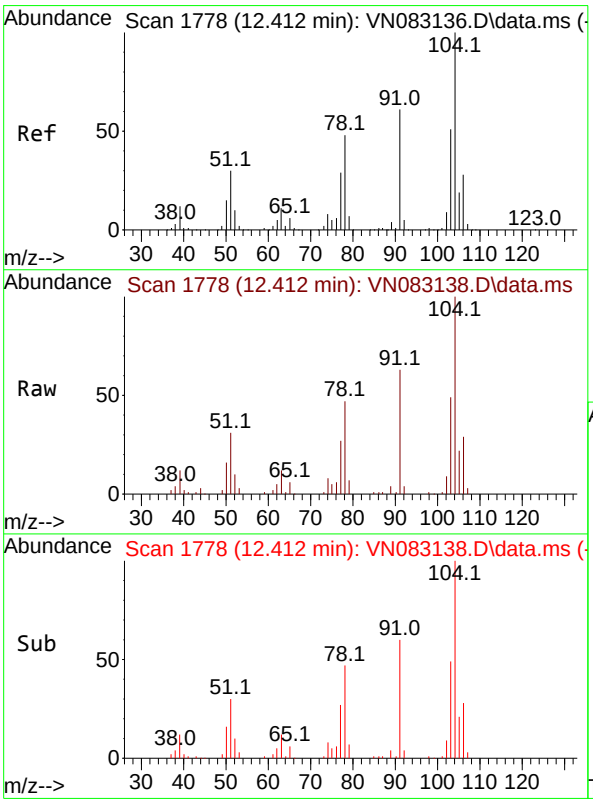
Ion	Ratio	Lower	Upper
106	100		
91	217.0	111.3	333.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

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

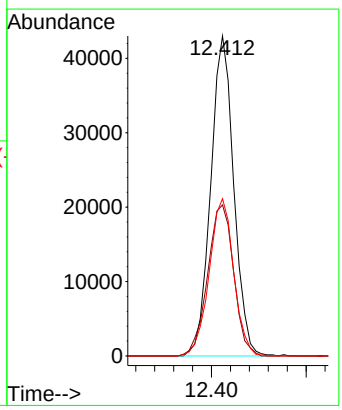


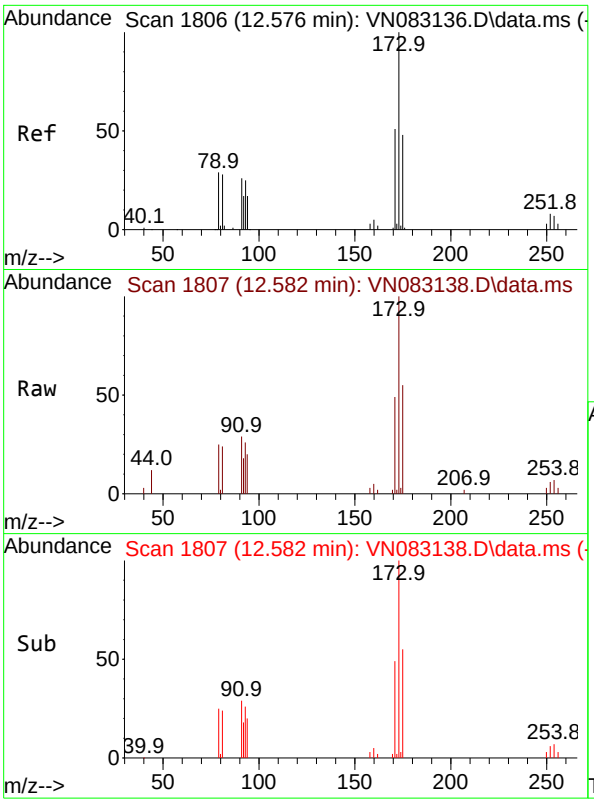


#70
Styrene
Concen: 10.335 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

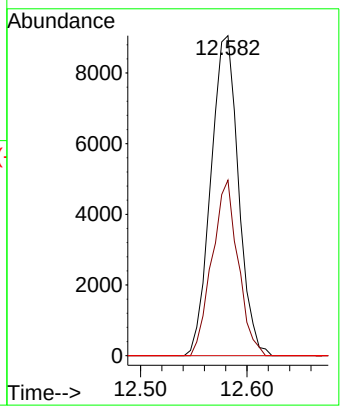




#71
Bromoform
Concen: 9.893 ug/l
RT: 12.582 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:173 Resp: 1632

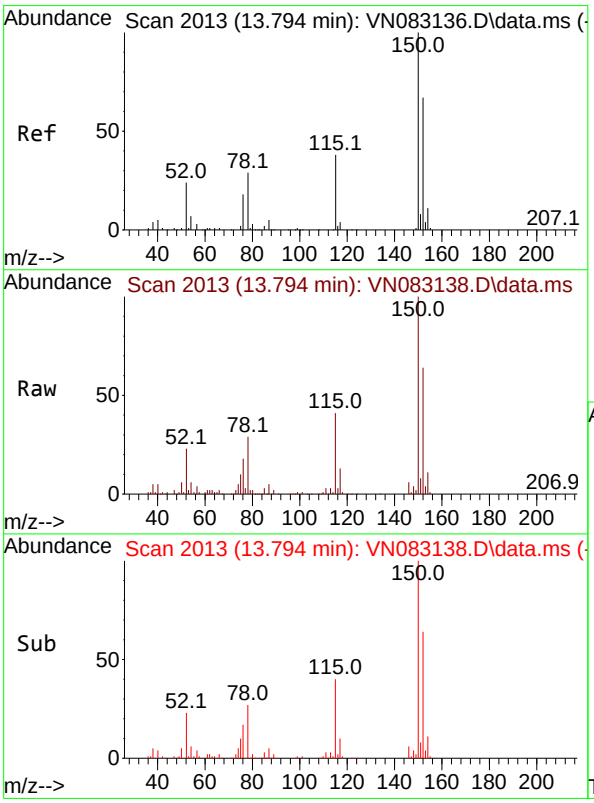
Ion	Ratio	Lower	Upper
173	100		
175	51.7	24.0	72.0
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

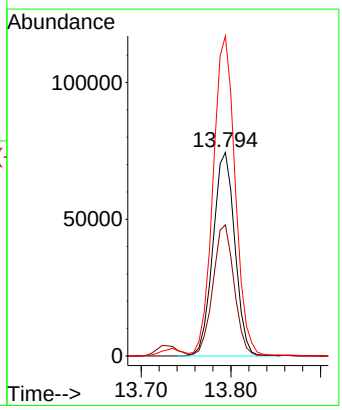
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

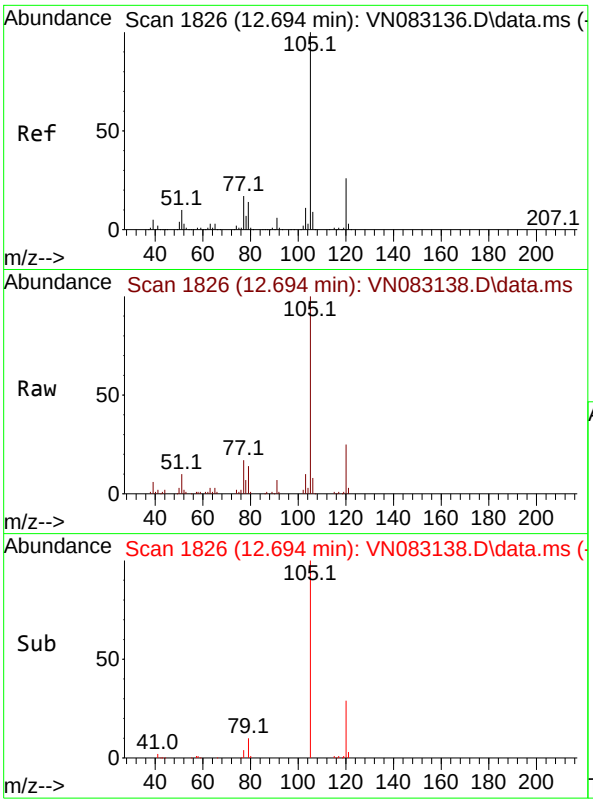


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

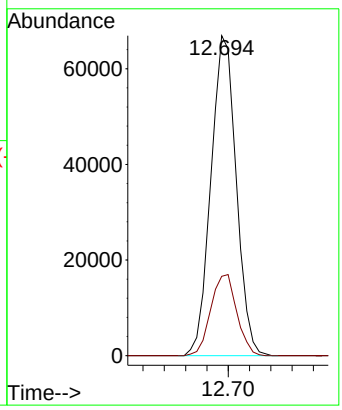




#73
Isopropylbenzene
Concen: 10.487 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:105 Resp: 11027

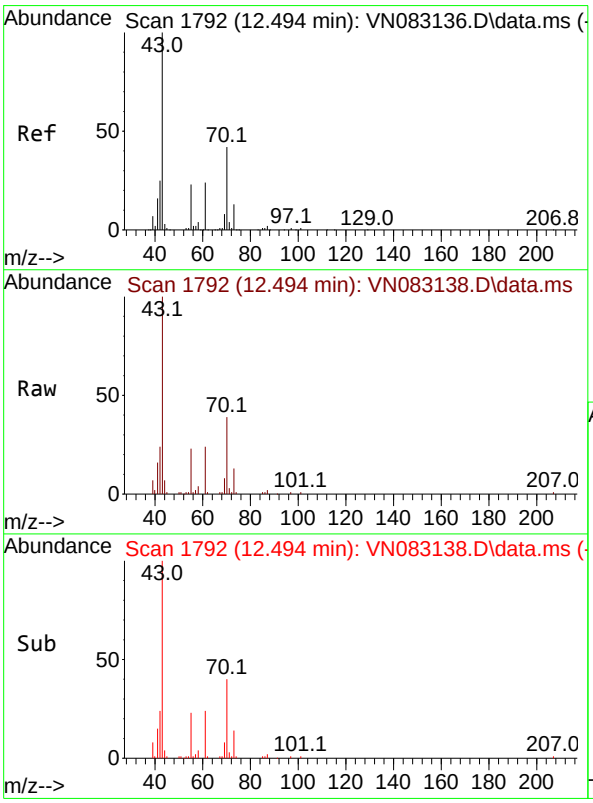
Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.9	38.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

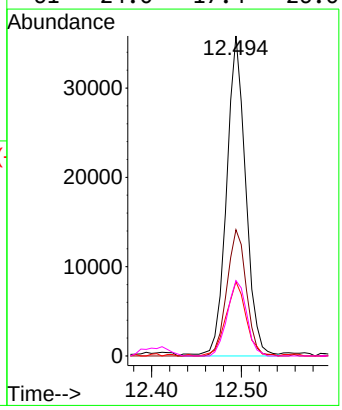
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

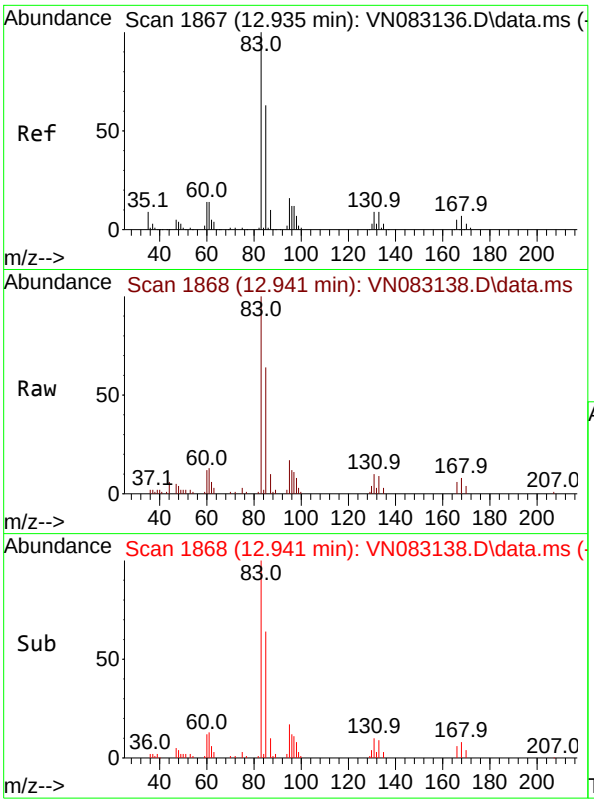


#74
N-amyl acetate
Concen: 10.303 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

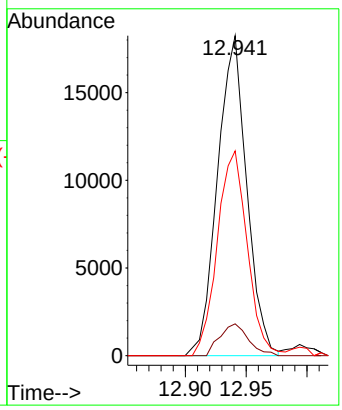
Tgt Ion: 83 Resp: 3043

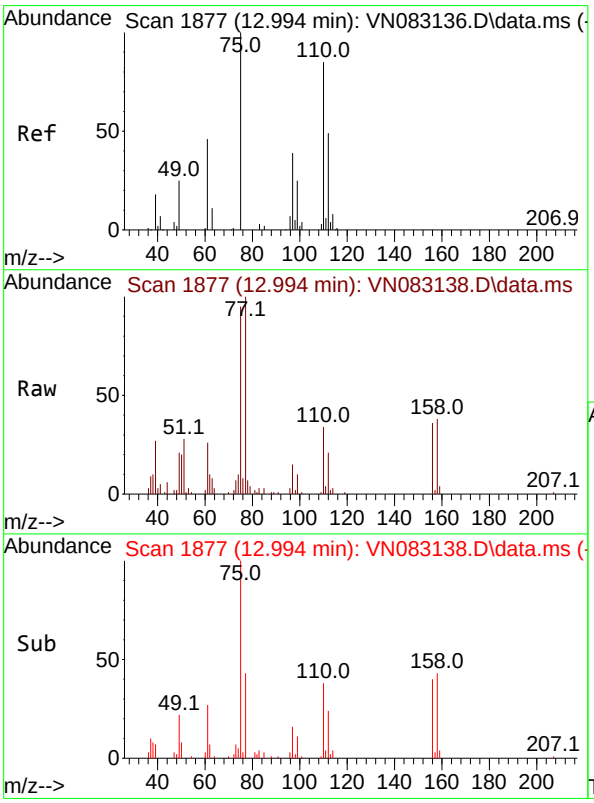
Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.0	14.9
85	65.6	31.9	95.7

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

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

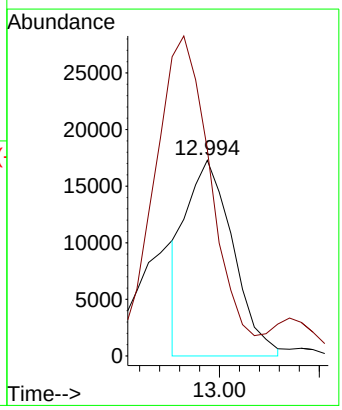


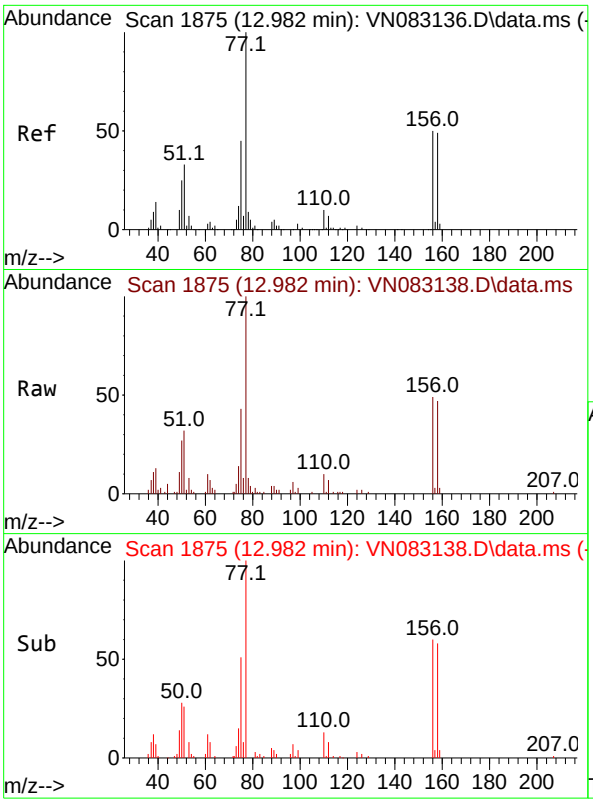


#76
1,2,3-Trichloropropane
Concen: 10.261 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 75 Resp: 28359

Ion	Ratio	Lower	Upper
75	100		
77	197.9	110.9	332.6

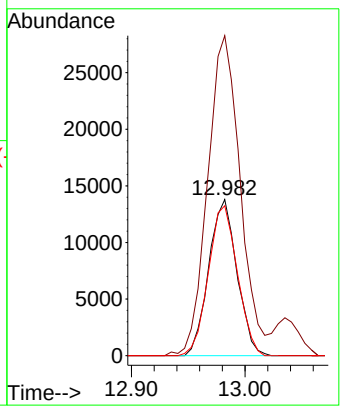




#77
Bromobenzene
Concen: 10.180 ug/l
RT: 12.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:156 Resp: 2378

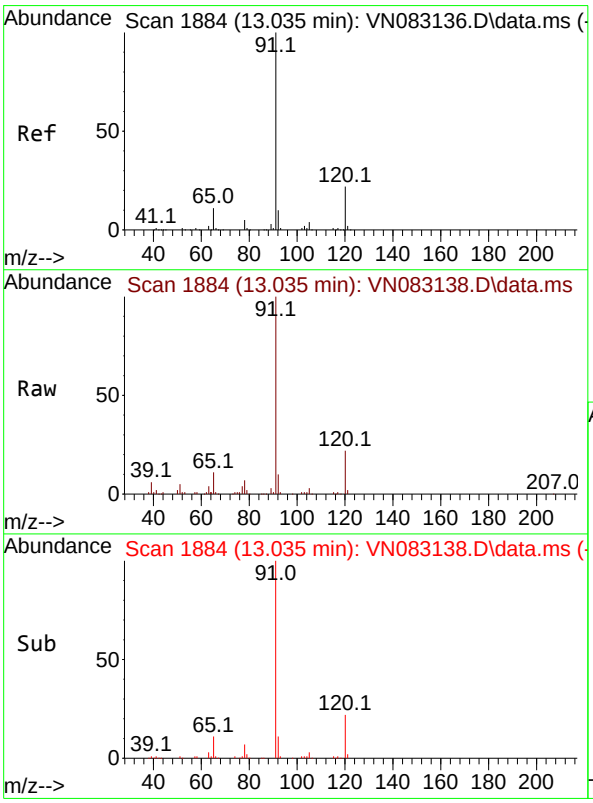
Ion	Ratio	Lower	Upper
156	100		
77	236.0	111.3	333.8
158	98.9	48.3	144.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

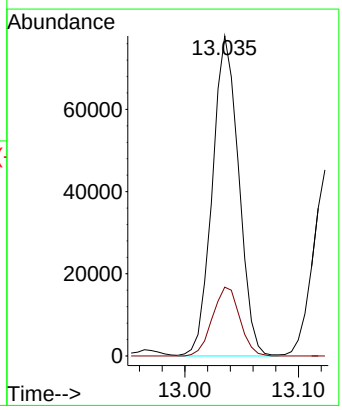
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

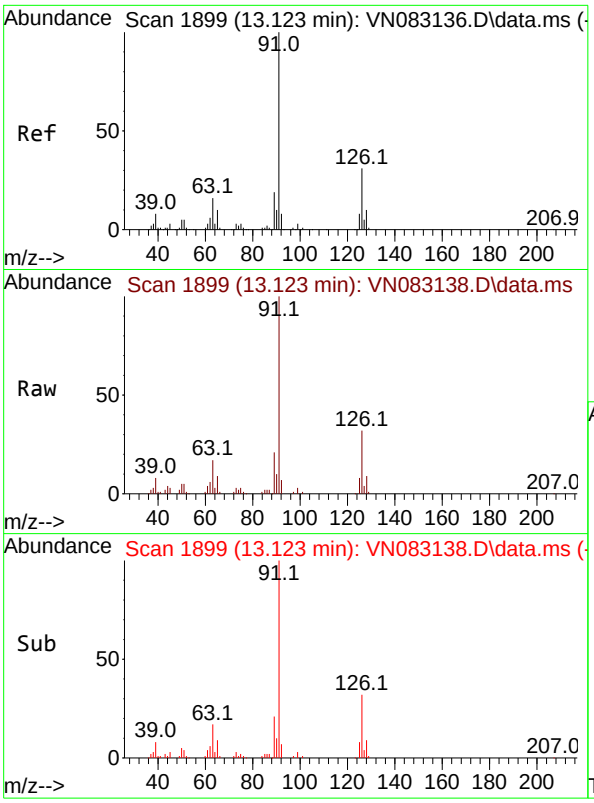


#78
n-propylbenzene
Concen: 10.379 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

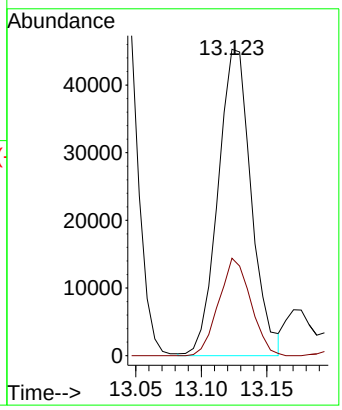
Tgt Ion: 91 Resp: 8006

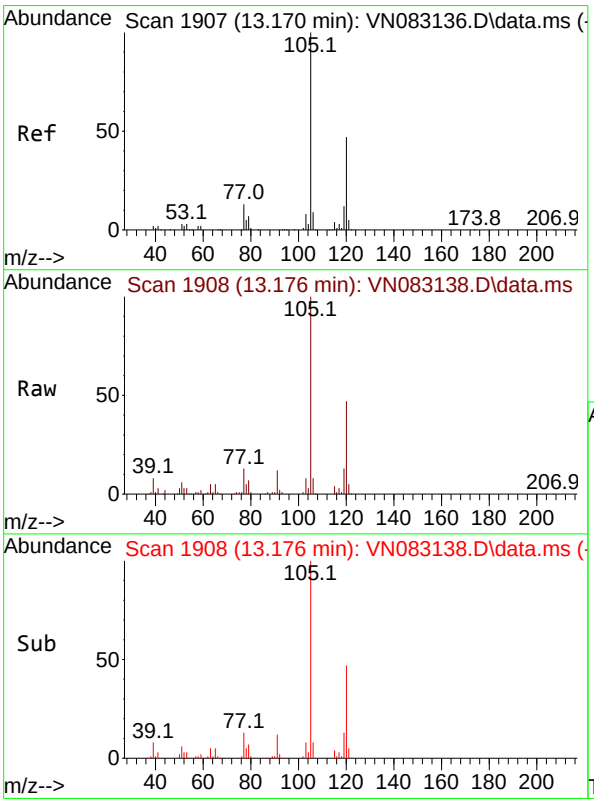
Ion	Ratio	Lower	Upper
91	100		
126	30.4	16.2	48.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

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

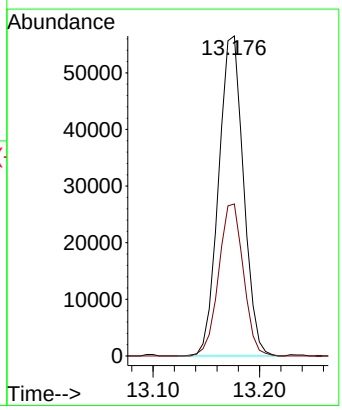


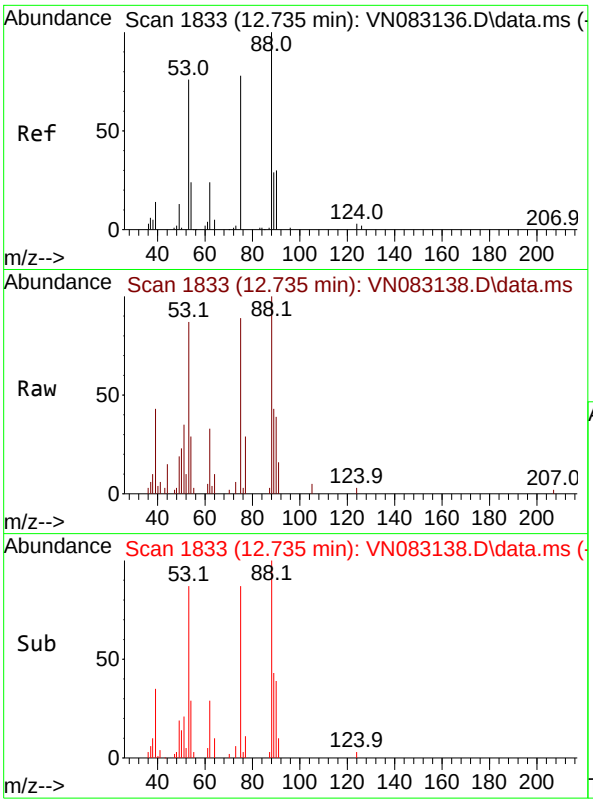


#80
1,3,5-Trimethylbenzene
Concen: 10.400 ug/l
RT: 13.176 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:105 Resp: 91559

Ion	Ratio	Lower	Upper
105	100		
120	47.3	24.3	72.8

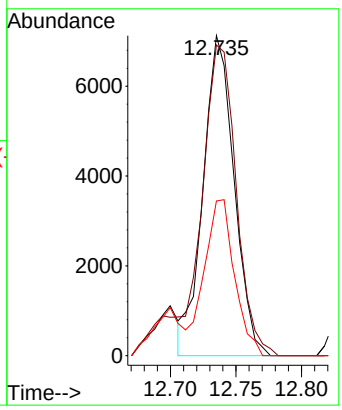




#81
trans-1,4-Dichloro-2-butene
Concen: 9.271 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 75 Resp: 1176

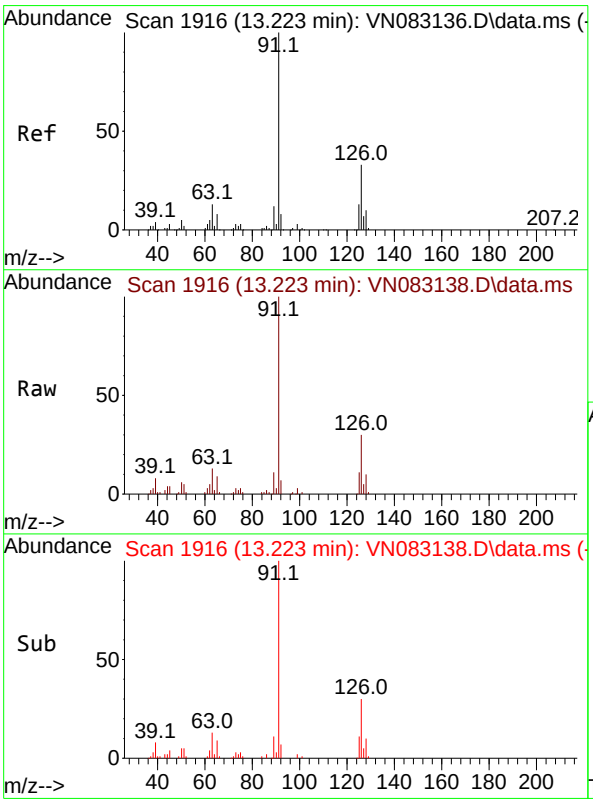
Ion	Ratio	Lower	Upper
75	100		
53	116.7	88.4	132.6
89	47.3	36.3	54.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

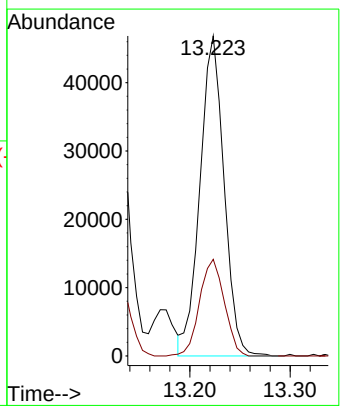
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

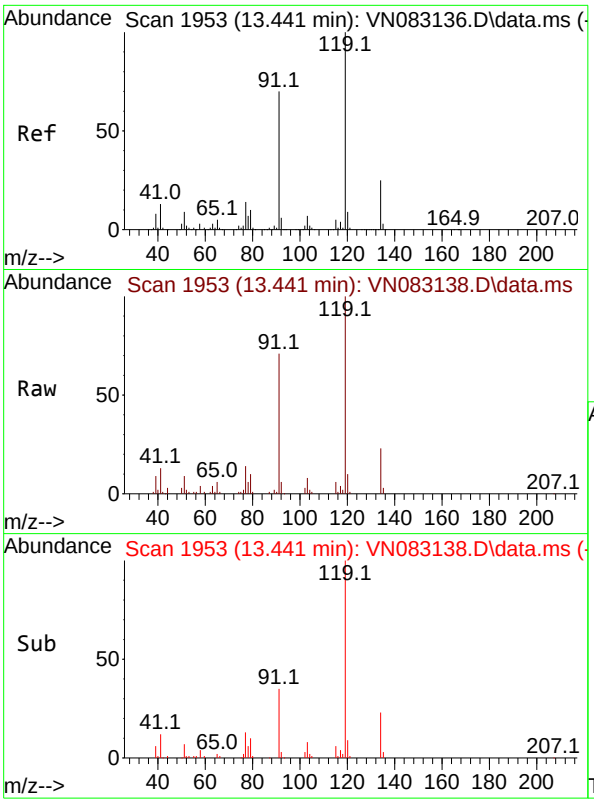


#82
4-Chlorotoluene
Concen: 10.174 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 91 Resp: 78348

Ion	Ratio	Lower	Upper
91	100		
126	31.0	16.2	48.6

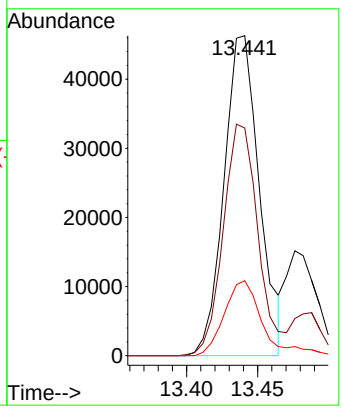




#83
tert-Butylbenzene
Concen: 10.294 ug/l
RT: 13.441 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:119 Resp: 8026

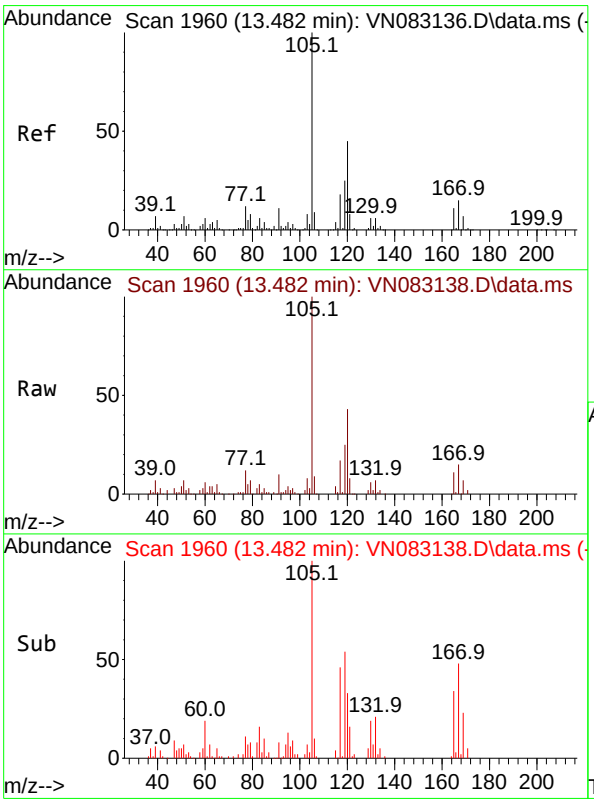
Ion	Ratio	Lower	Upper
119	100		
91	71.7	35.0	105.1
134	25.3	13.3	39.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

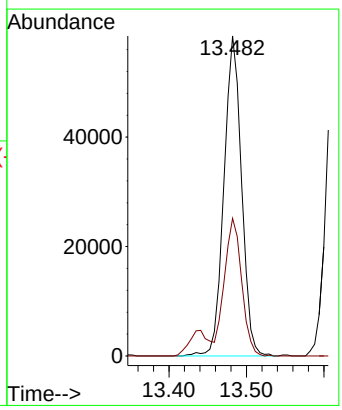
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

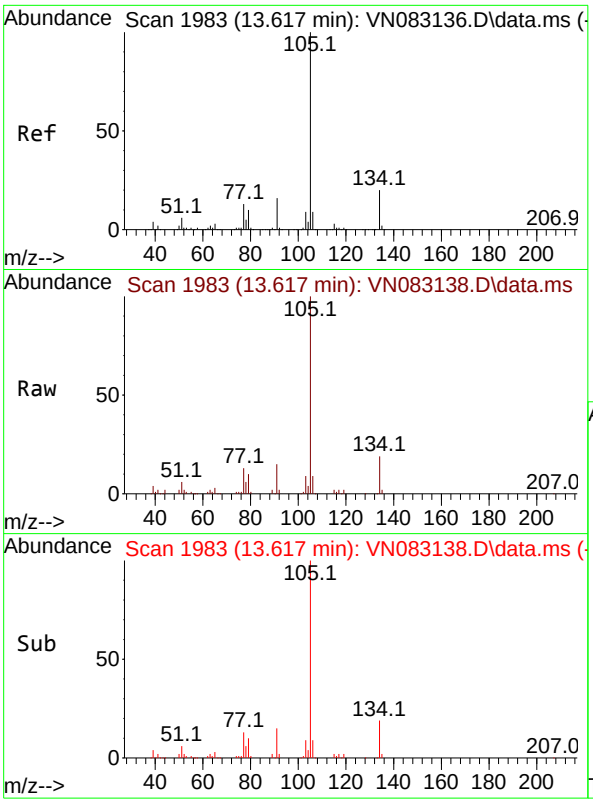


#84
1,2,4-Trimethylbenzene
Concen: 10.426 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:105 Resp: 92502

Ion	Ratio	Lower	Upper
105	100		
120	42.1	21.9	65.8

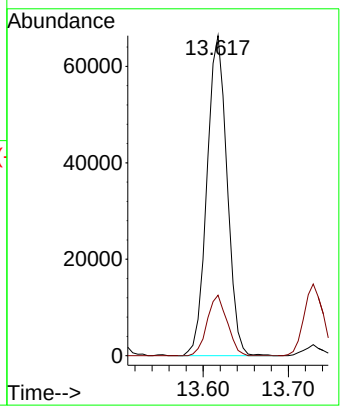




#85
sec-Butylbenzene
Concen: 10.221 ug/l
RT: 13.617 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:105 Resp: 10874

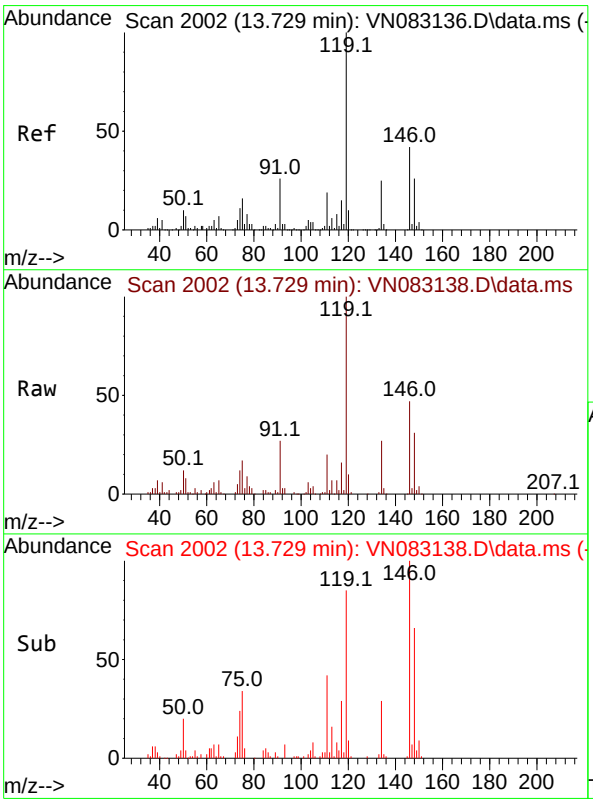
Ion	Ratio	Lower	Upper
105	100		
134	18.8	9.8	29.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

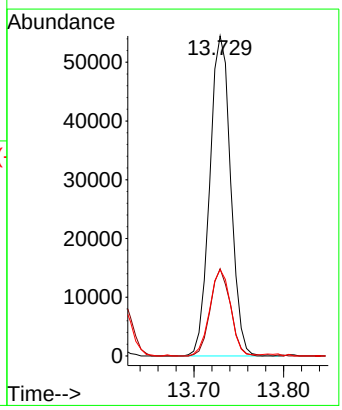
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

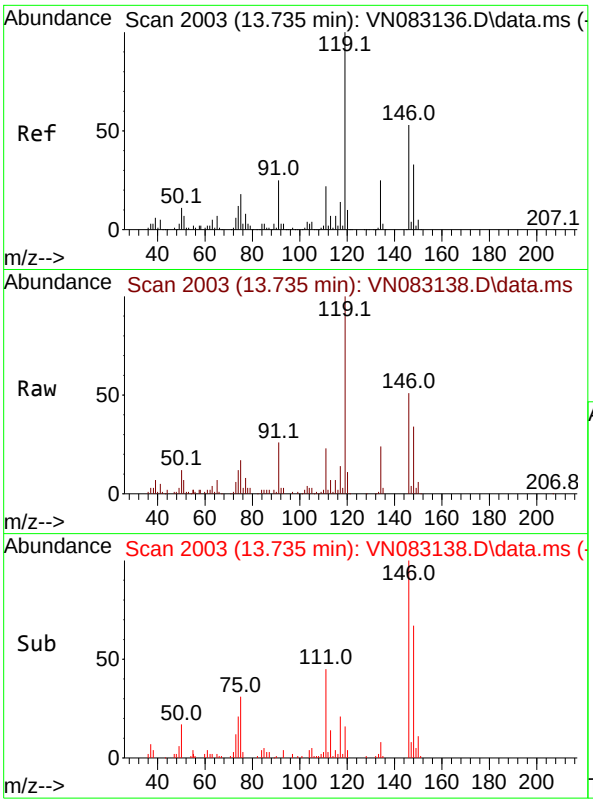


#86
p-Isopropyltoluene
Concen: 10.047 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

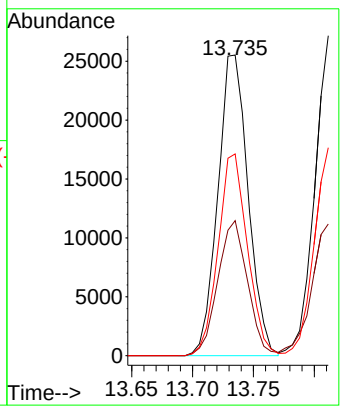




#87
1,3-Dichlorobenzene
Concen: 10.048 ug/l
RT: 13.735 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:146 Resp: 4416

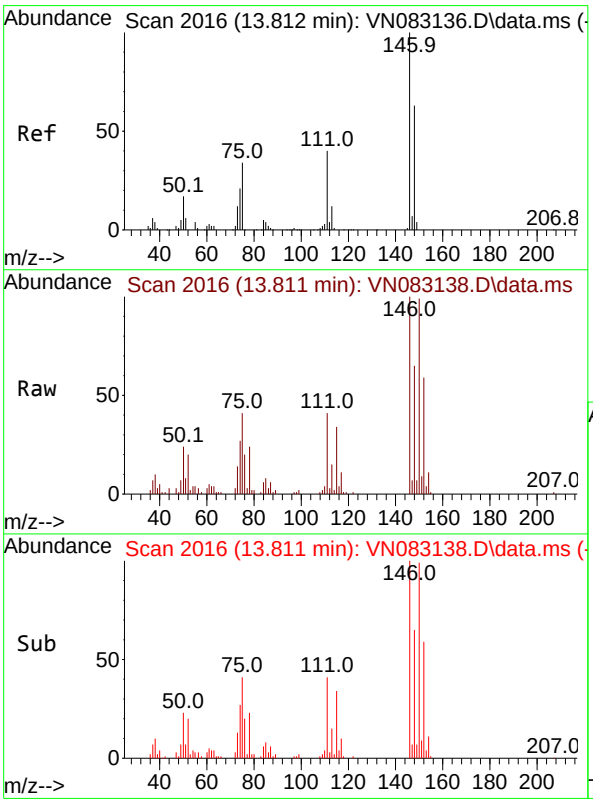
Ion	Ratio	Lower	Upper
146	100		
111	44.1	20.6	61.9
148	65.1	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

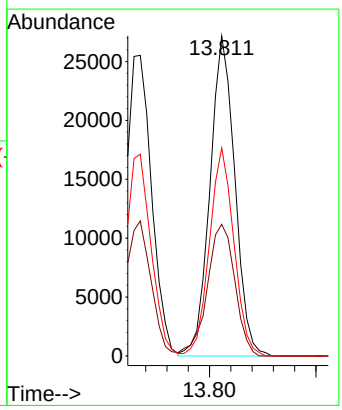
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

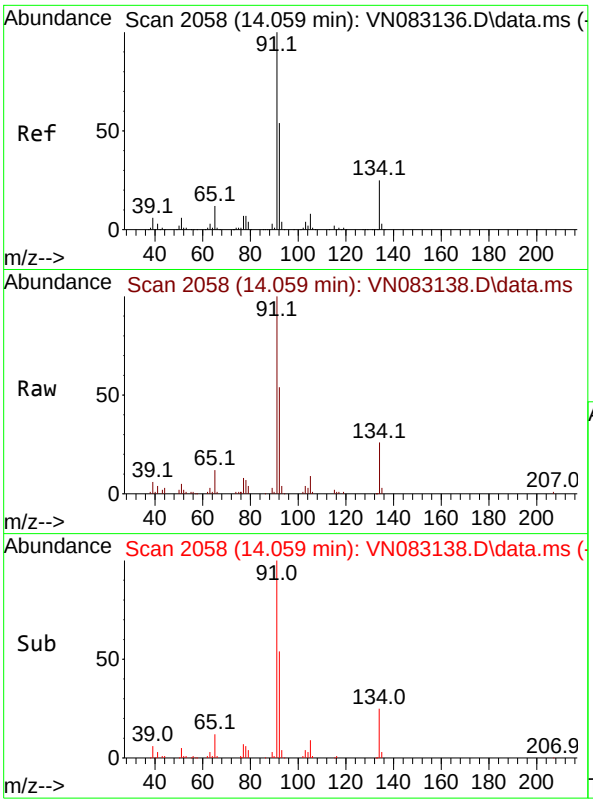


#88
1,4-Dichlorobenzene
Concen: 9.937 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

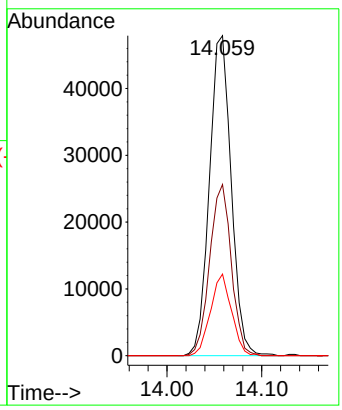
Tgt Ion: 91 Resp: 7656

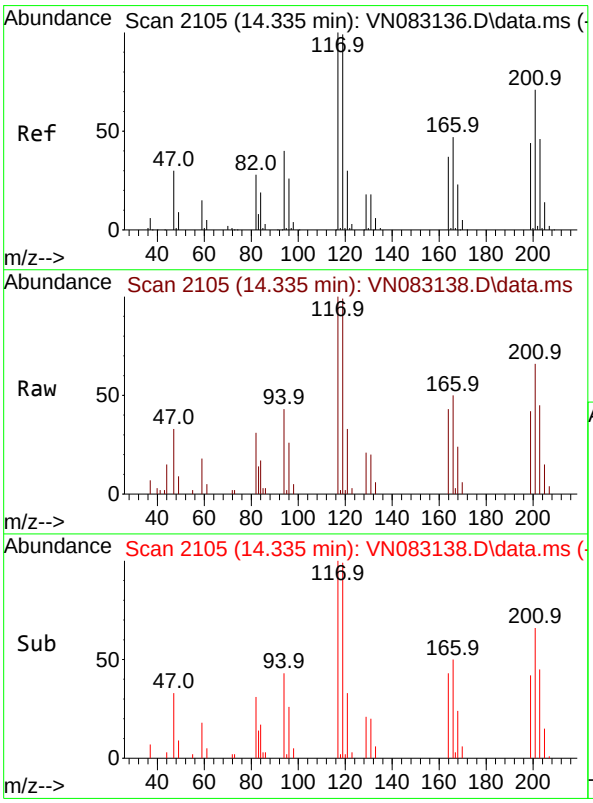
Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.1	78.3
134	24.7	12.1	36.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

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

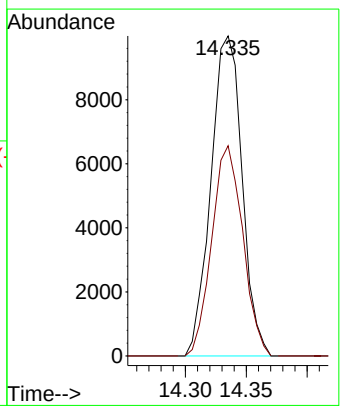


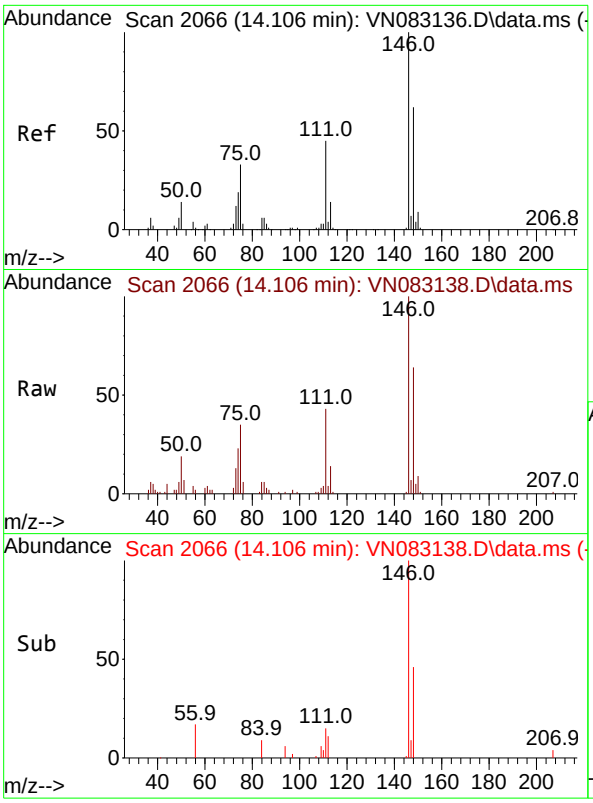


#90
Hexachloroethane
Concen: 10.487 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:117 Resp: 17798

Ion	Ratio	Lower	Upper
117	100		
201	65.3	35.8	107.3

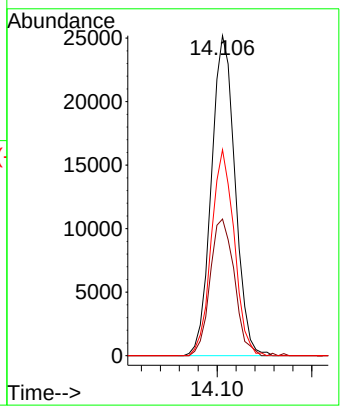




#91
1,2-Dichlorobenzene
Concen: 10.282 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:146 Resp: 4373

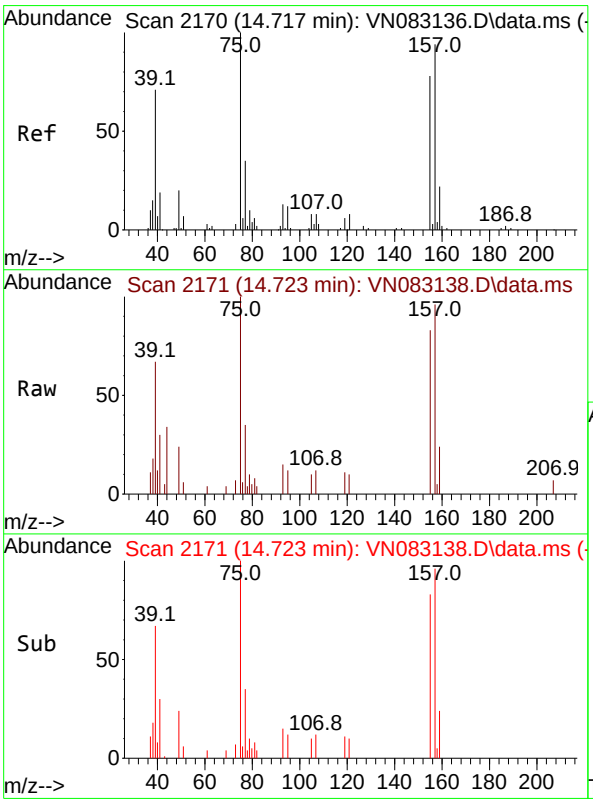
Ion	Ratio	Lower	Upper
146	100		
111	43.8	21.4	64.2
148	62.3	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

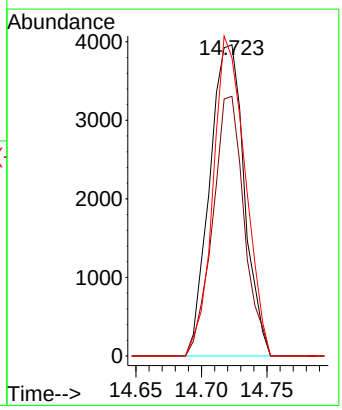
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

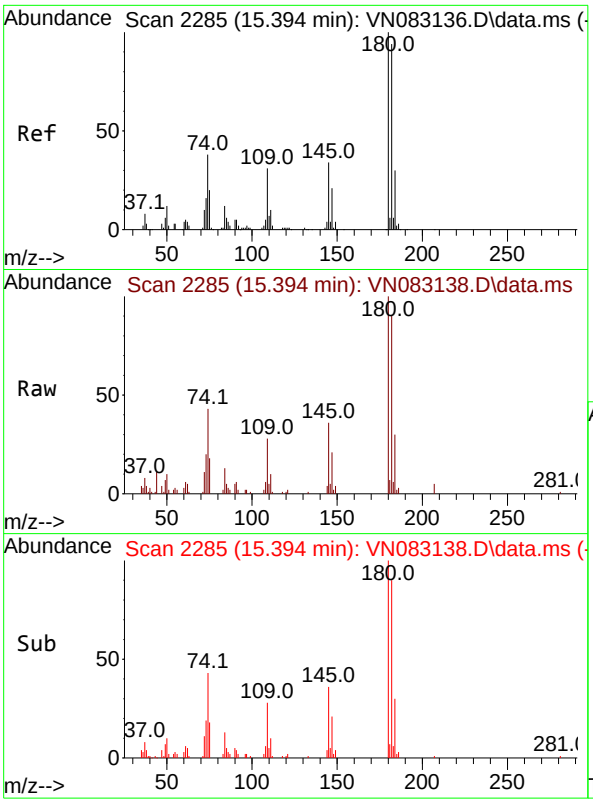


#92
1,2-Dibromo-3-Chloropropane
Concen: 10.056 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

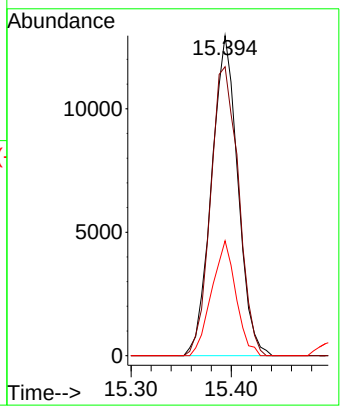




#93
1,2,4-Trichlorobenzene
Concen: 9.895 ug/l
RT: 15.394 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:180 Resp: 2358

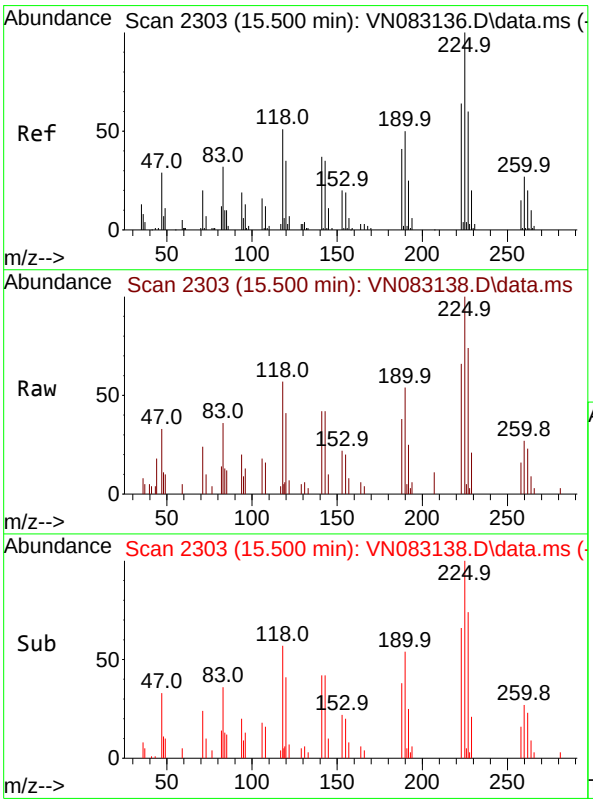
Ion	Ratio	Lower	Upper
180	100		
182	96.2	47.3	141.8
145	33.2	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

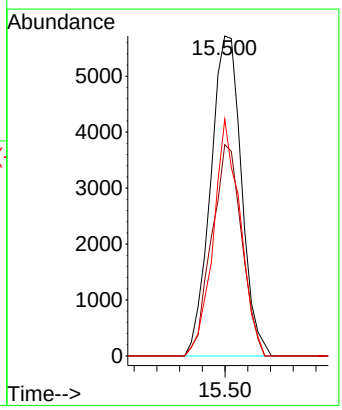
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

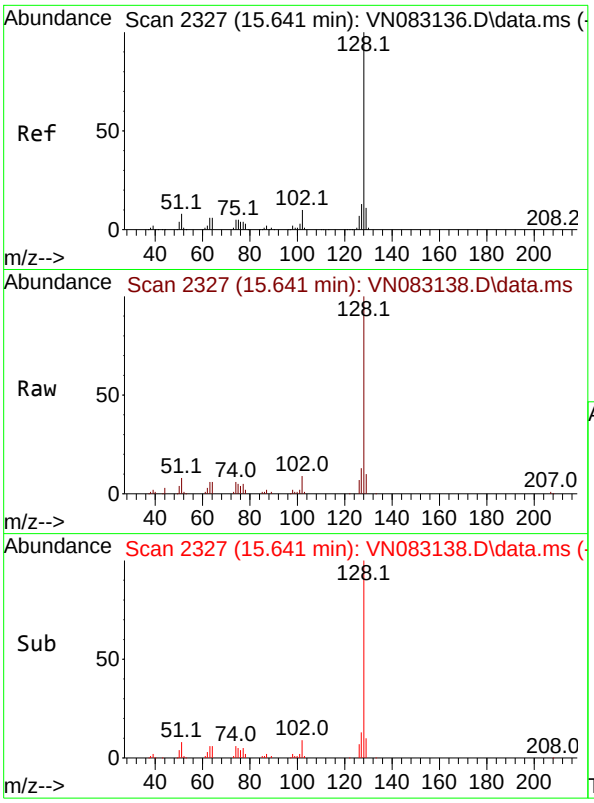


#94
Hexachlorobutadiene
Concen: 10.179 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

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

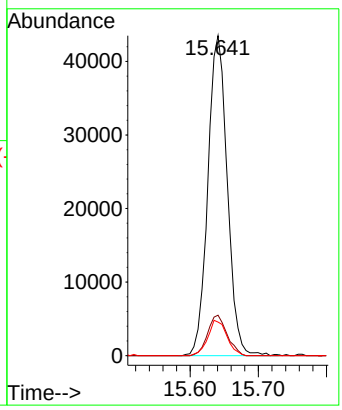




#95
Naphthalene
Concen: 10.232 ug/l
RT: 15.641 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:128 Resp: 8637

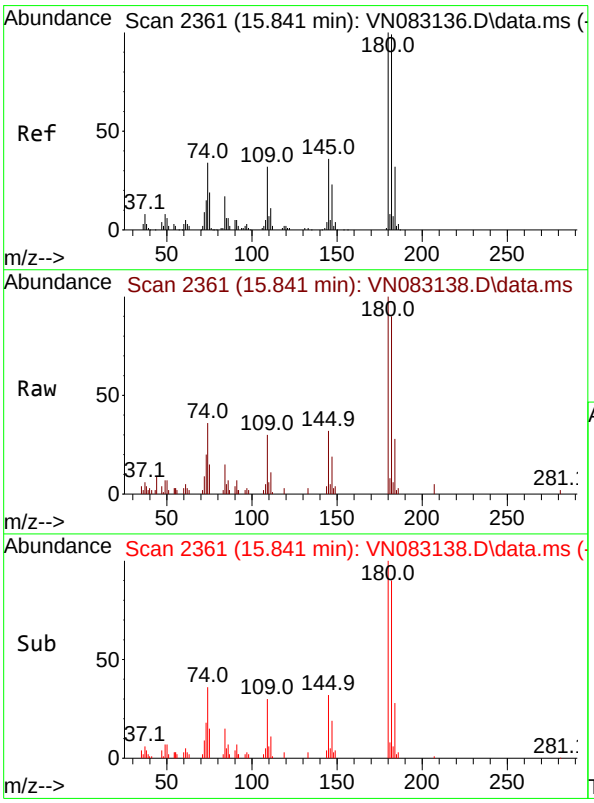
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.6	16.0
129	10.8	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

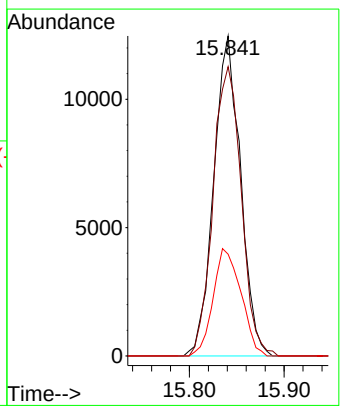
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#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



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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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

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

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

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

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

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)

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

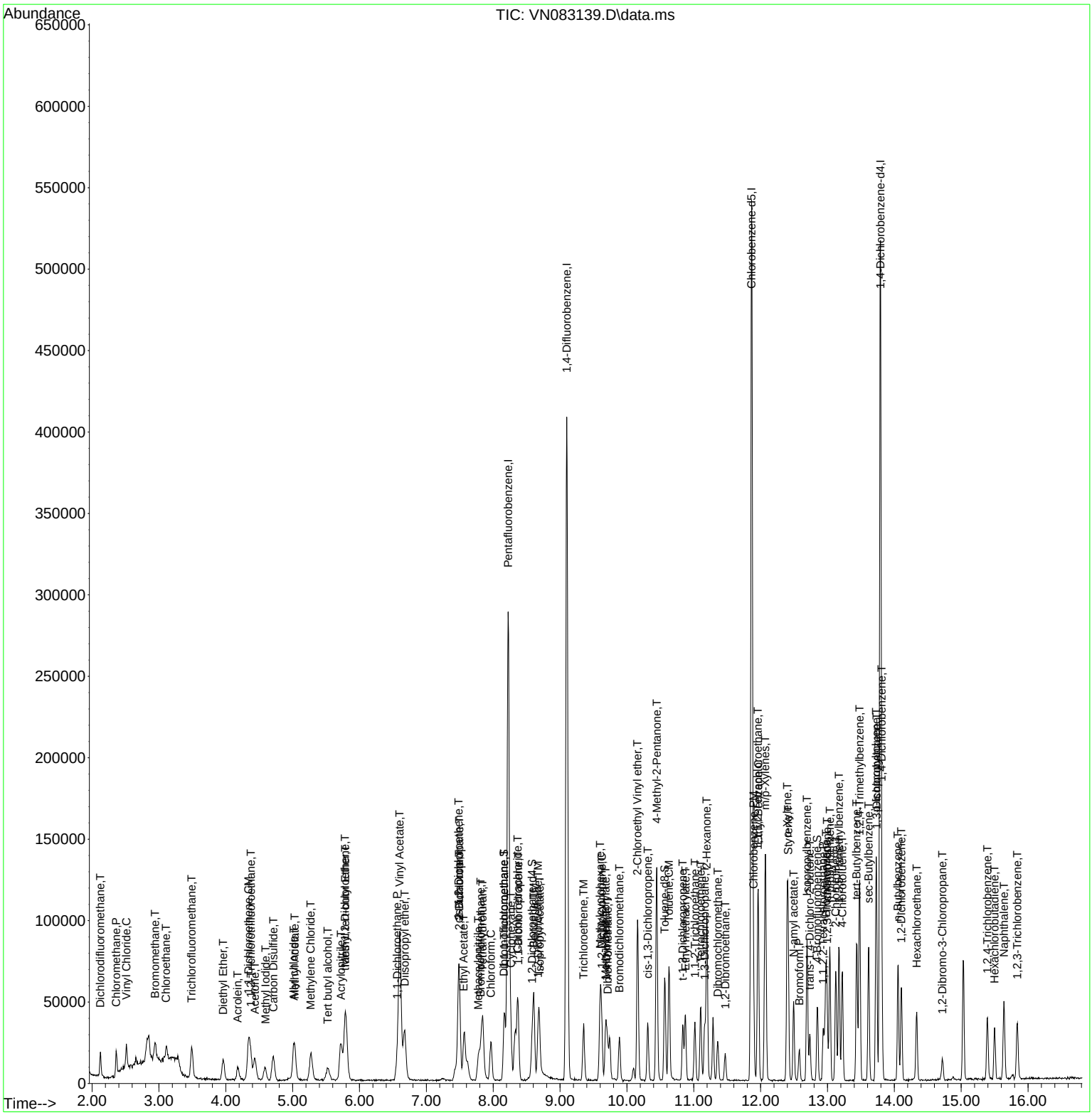
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083139.D
Acq On : 07 Aug 2024 12:10
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

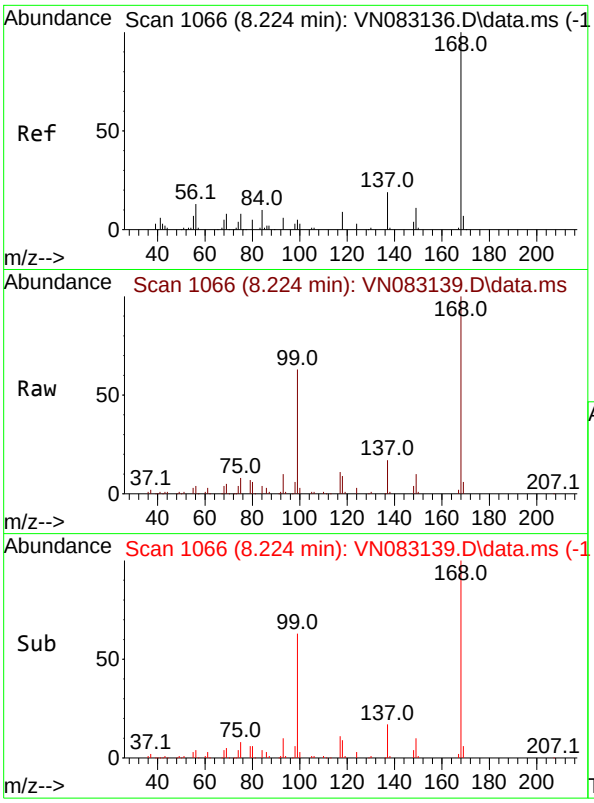
Quant Time: Aug 08 06:18:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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

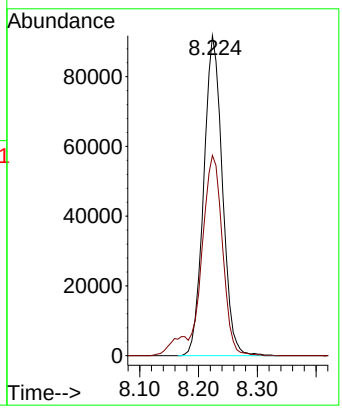




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:168 Resp: 20185

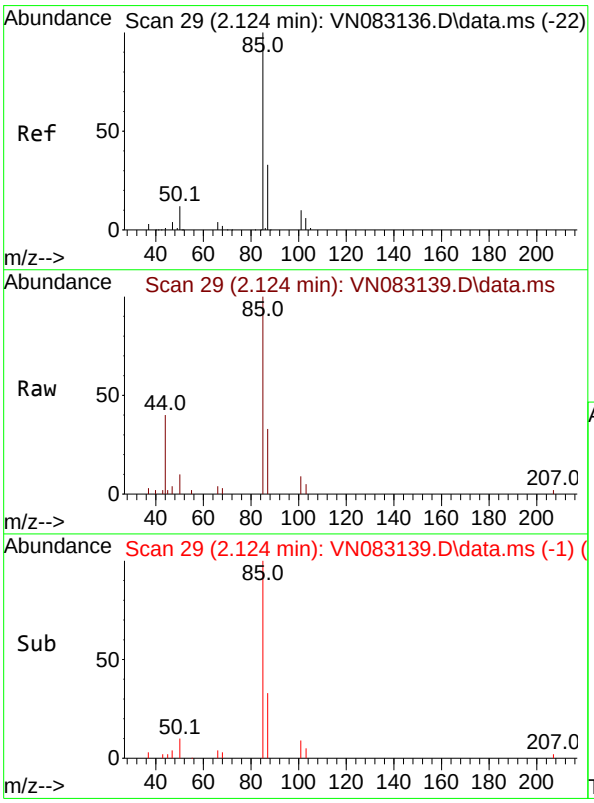
Ion	Ratio	Lower	Upper
168	100		
99	62.6	48.2	72.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

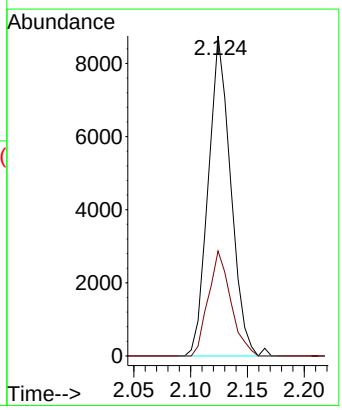
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

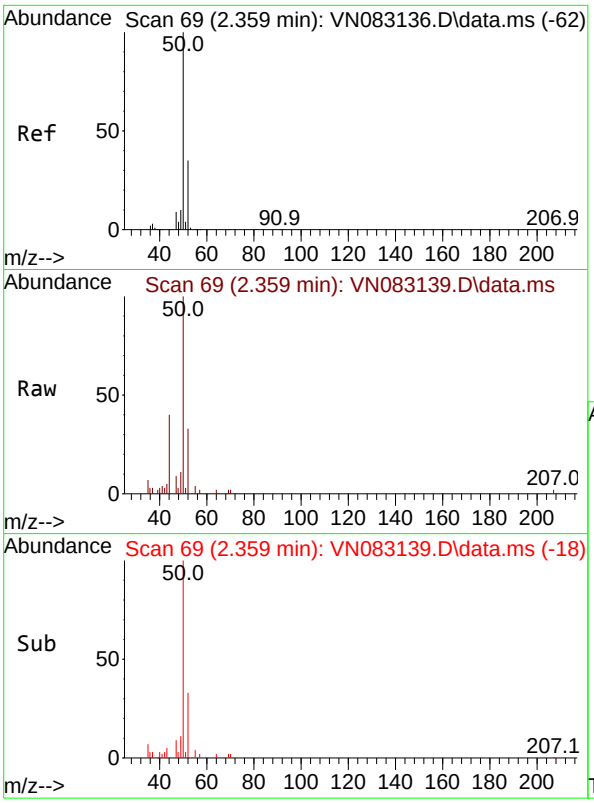


#2
Dichlorodifluoromethane
Concen: 5.262 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 85 Resp: 12045

Ion	Ratio	Lower	Upper
85	100		
87	32.8	15.7	47.0

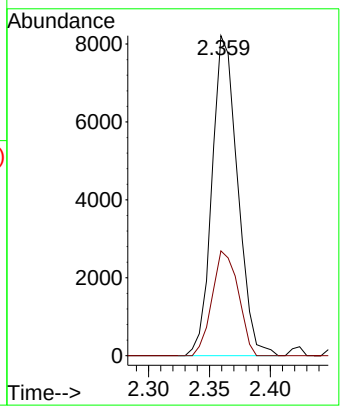




#3
Chloromethane
Concen: 5.128 ug/l
RT: 2.359 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 50 Resp: 1201

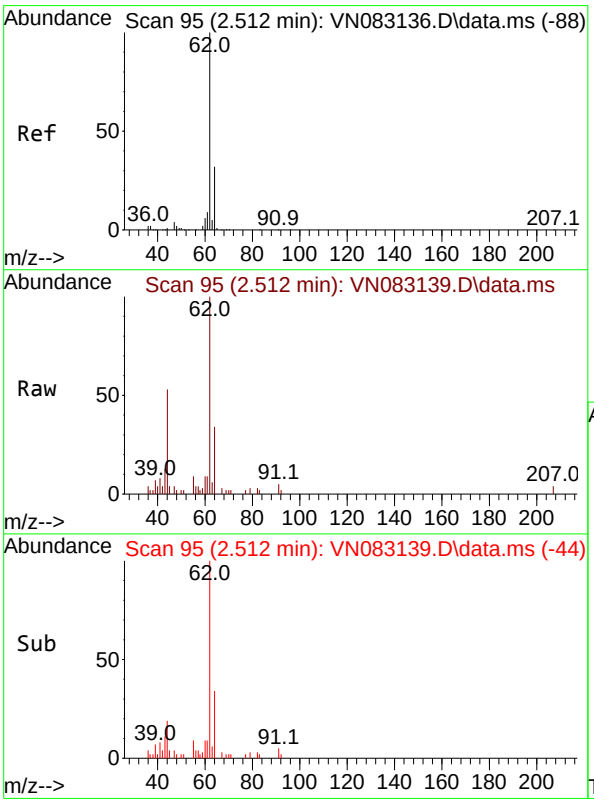
Ion	Ratio	Lower	Upper
50	100		
52	32.7	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

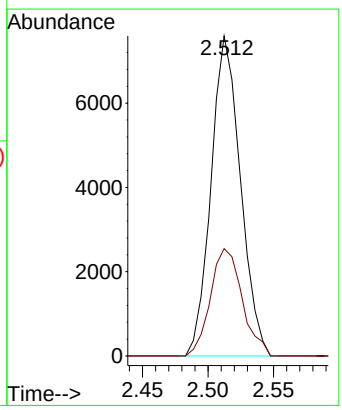
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

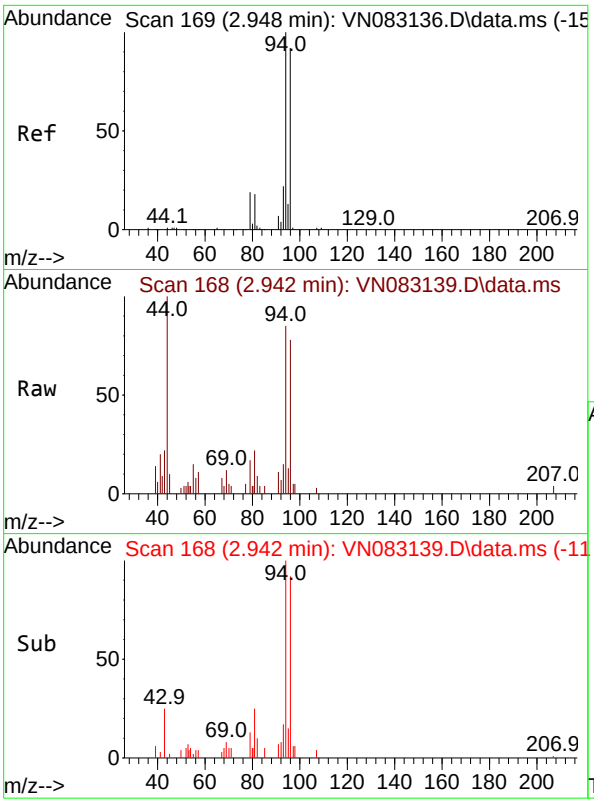


#4
Vinyl Chloride
Concen: 4.950 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 62 Resp: 11837

Ion	Ratio	Lower	Upper
62	100		
64	33.6	25.0	37.6

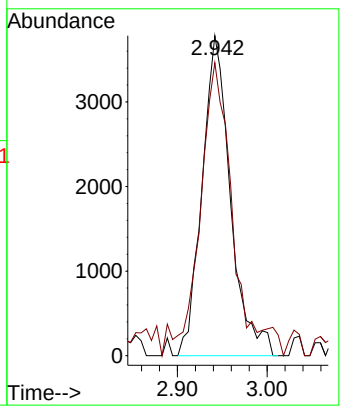




#5
Bromomethane
Concen: 5.612 ug/l
RT: 2.942 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 94 Resp: 832

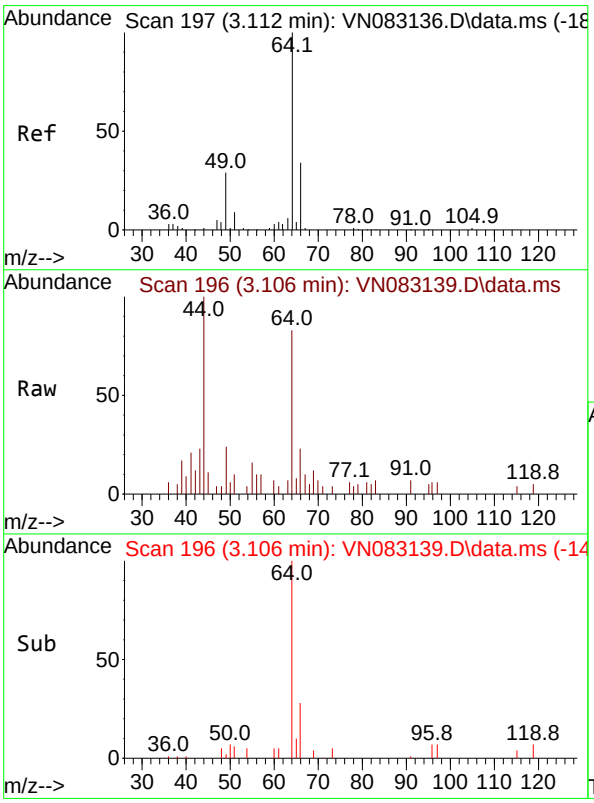
Ion	Ratio	Lower	Upper
94	100		
96	85.3	78.0	117.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

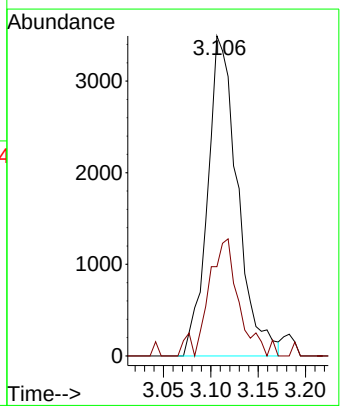
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

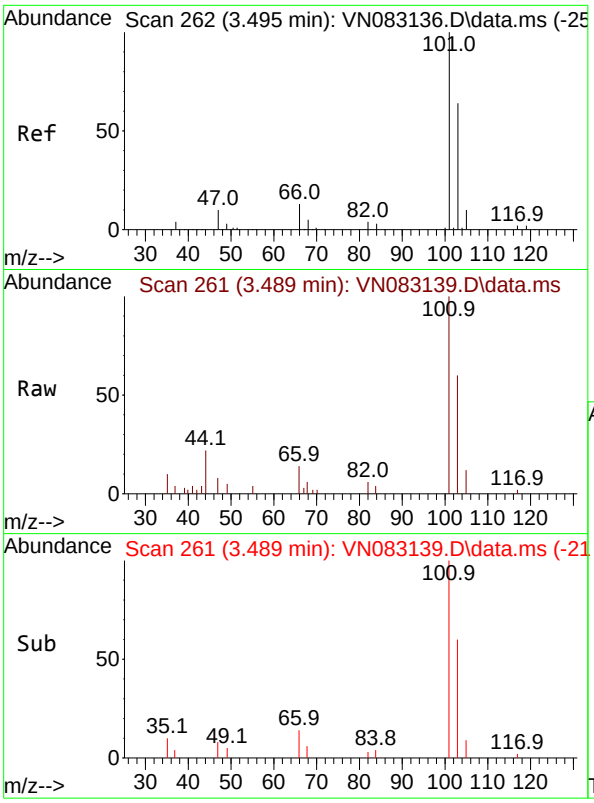


#6
Chloroethane
Concen: 5.139 ug/l
RT: 3.106 min Scan# 196
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 64 Resp: 7688

Ion	Ratio	Lower	Upper
64	100		
66	27.9	26.6	40.0

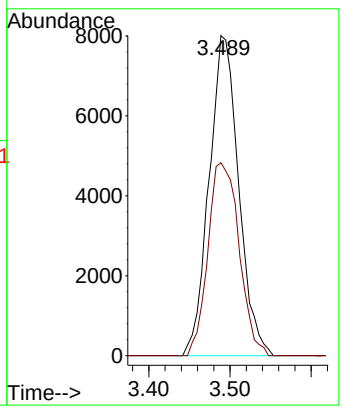




#7
Trichlorofluoromethane
Concen: 5.124 ug/l
RT: 3.489 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:101 Resp: 2024

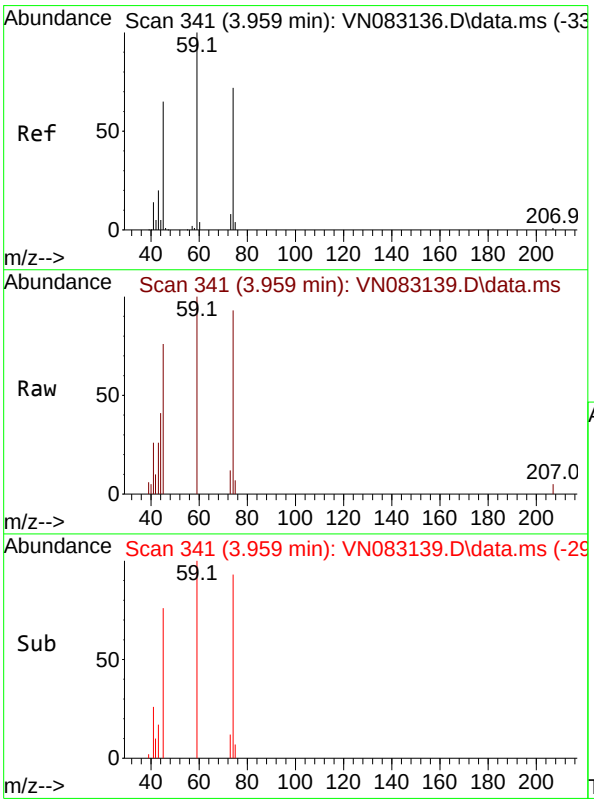
Ion	Ratio	Lower	Upper
101	100		
103	60.3	52.7	79.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

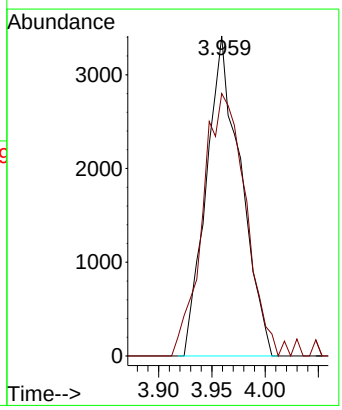
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

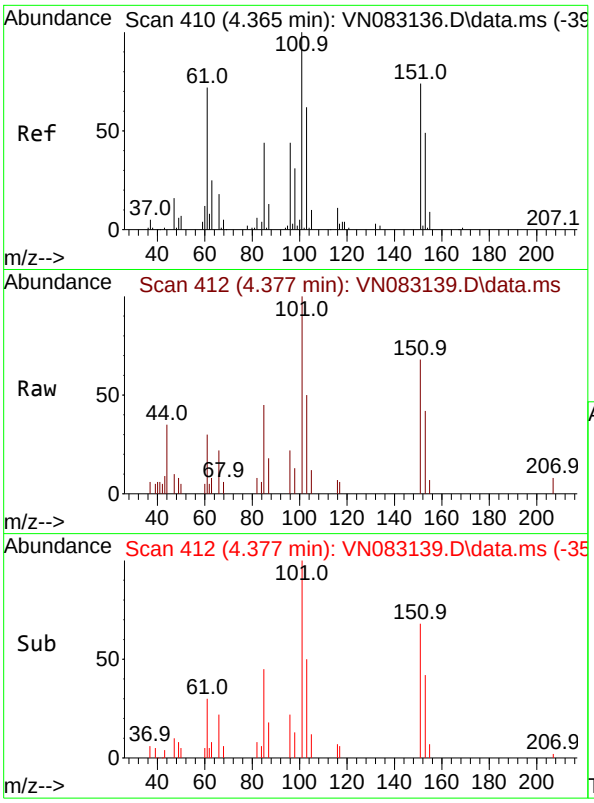


#8
Diethyl Ether
Concen: 5.220 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 74 Resp: 7674

Ion	Ratio	Lower	Upper
74	100		
45	101.8	55.5	166.3

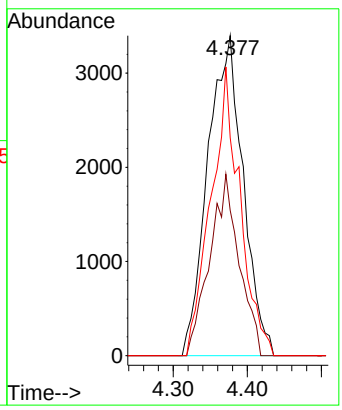




#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.170 ug/l
RT: 4.377 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:101 Resp: 1126

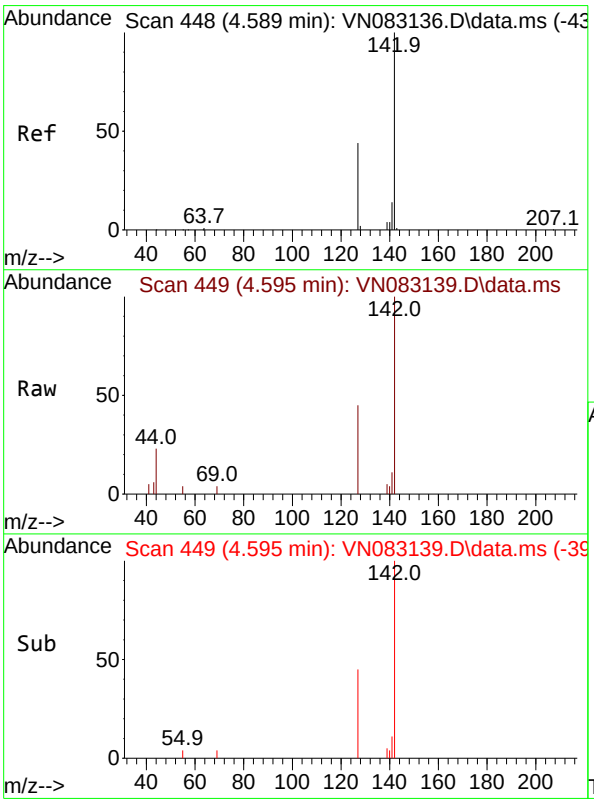
Ion	Ratio	Lower	Upper
101	100		
85	47.2	38.3	57.5
151	74.4	59.3	88.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

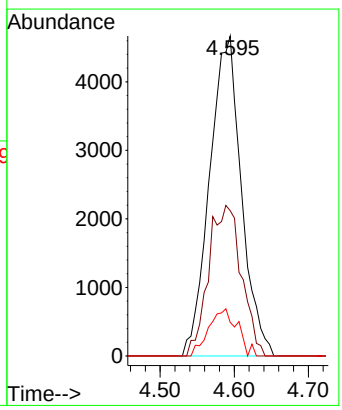
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

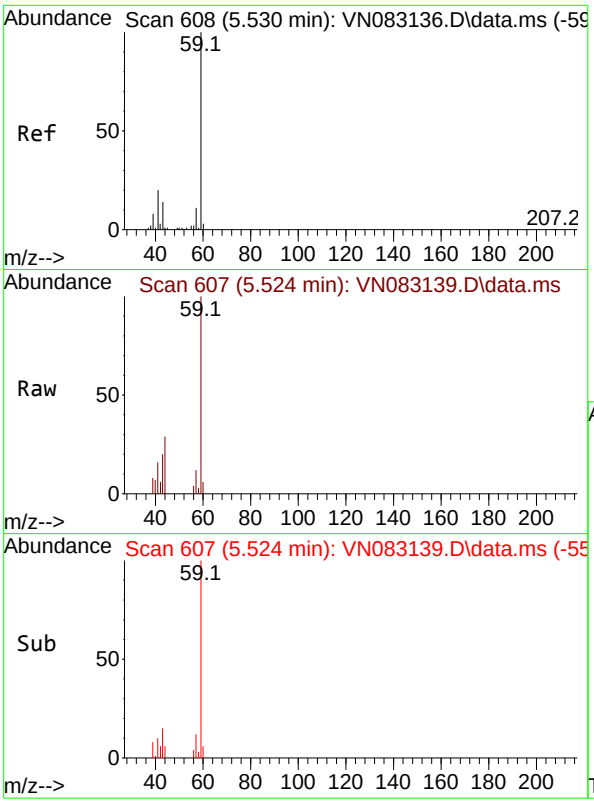


#10
Methyl Iodide
Concen: 4.844 ug/l
RT: 4.595 min Scan# 449
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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#

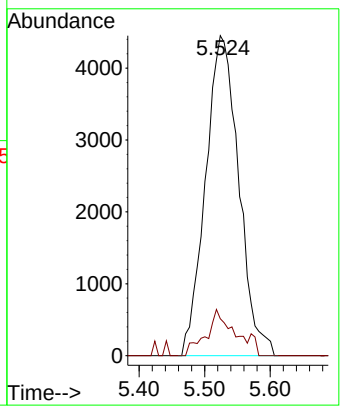




#11
Tert butyl alcohol
Concen: 26.268 ug/l
RT: 5.524 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 59 Resp: 1568

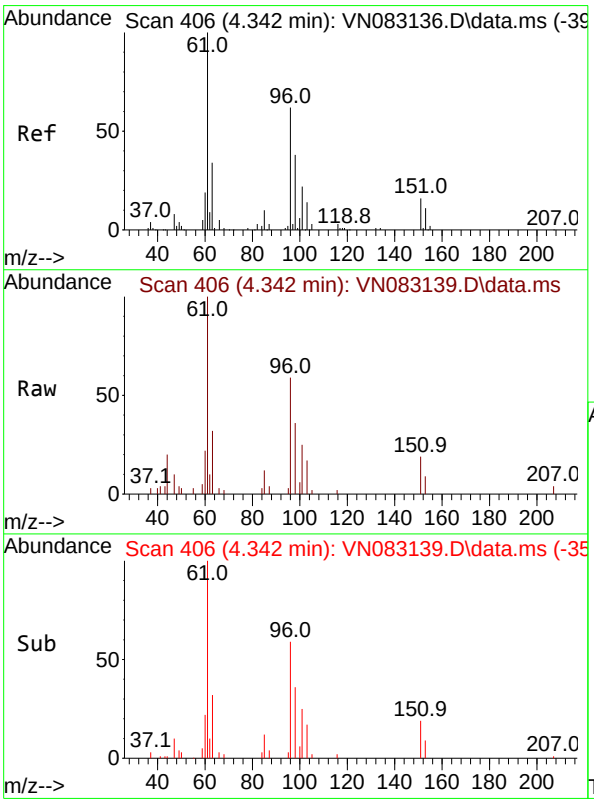
Ion	Ratio	Lower	Upper
59	100		
57	11.4	8.9	13.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

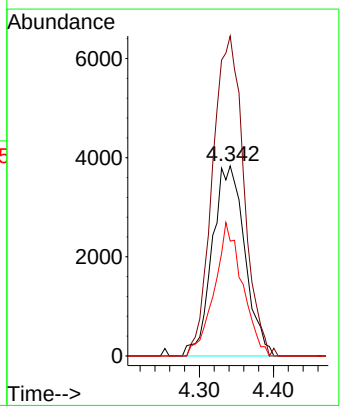
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

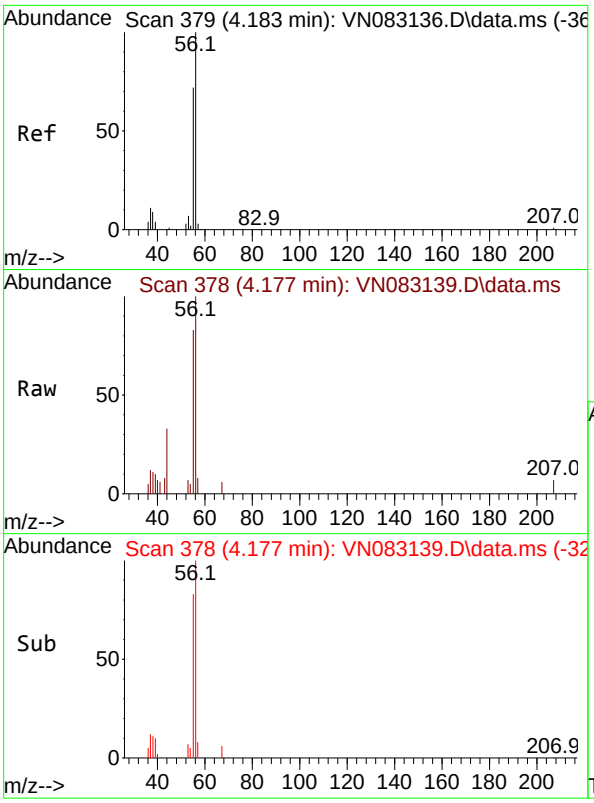


#12
1,1-Dichloroethene
Concen: 5.237 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

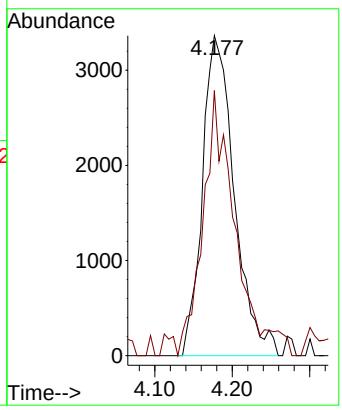




#13
Acrolein
Concen: 24.707 ug/l
RT: 4.177 min Scan# 3
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 56 Resp: 961

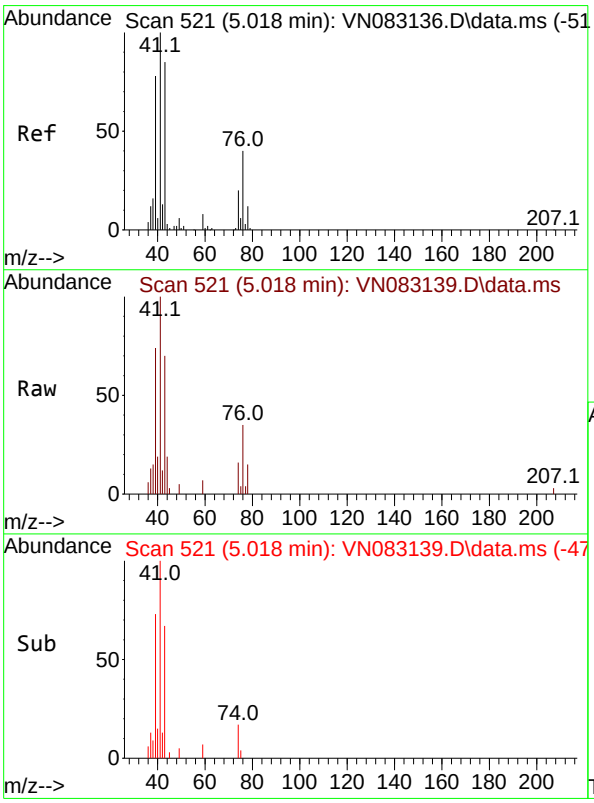
Ion	Ratio	Lower	Upper
56	100		
55	80.0	56.4	84.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

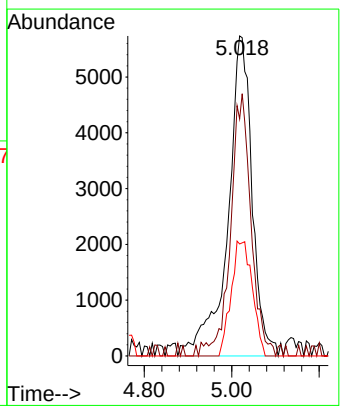
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

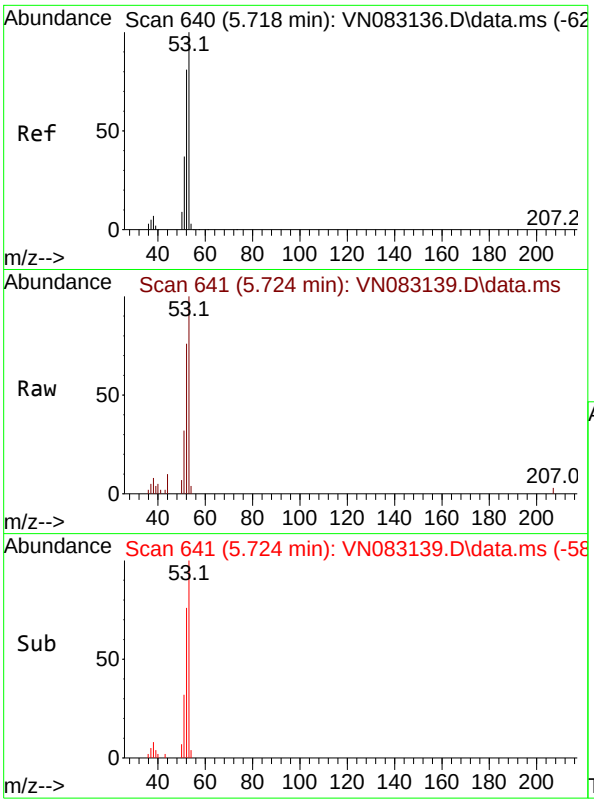


#14
Allyl chloride
Concen: 5.246 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

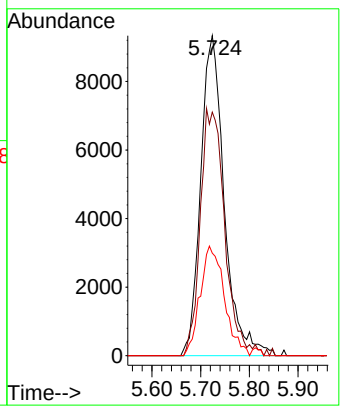




#15
Acrylonitrile
Concen: 25.534 ug/l
RT: 5.724 min Scan# 64
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 53 Resp: 3135

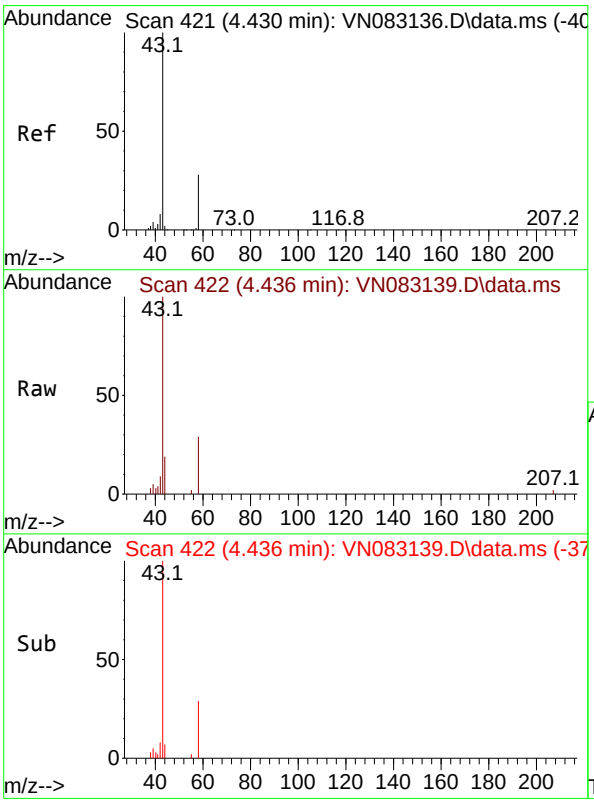
Ion	Ratio	Lower	Upper
53	100		
52	79.9	66.6	100.0
51	35.3	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

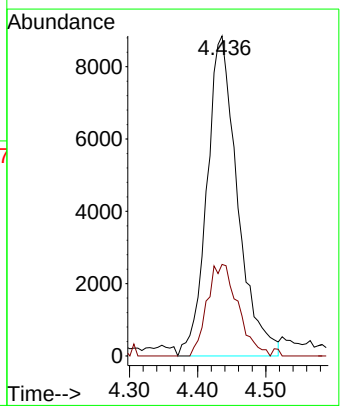
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

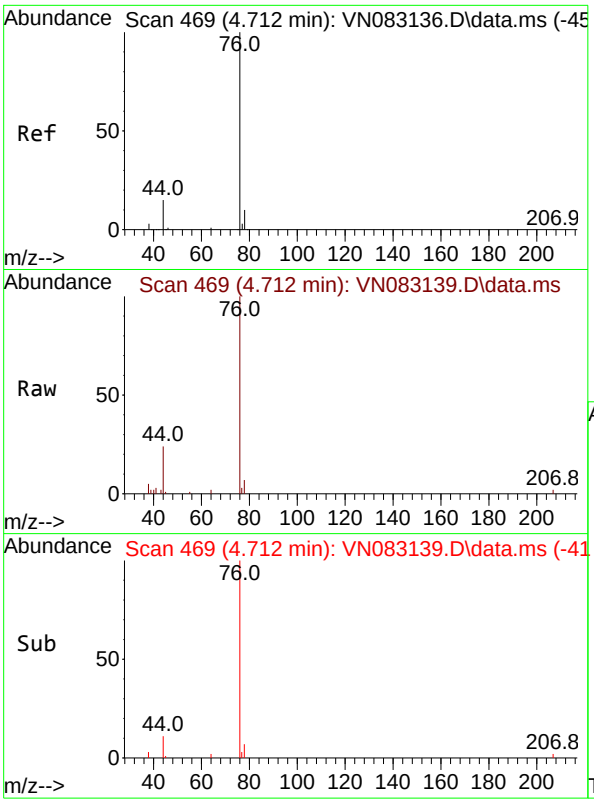


#16
Acetone
Concen: 24.581 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 43 Resp: 27636

Ion	Ratio	Lower	Upper
43	100		
58	28.6	21.8	32.6

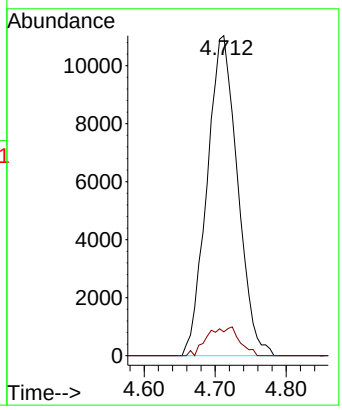




#17
Carbon Disulfide
Concen: 5.026 ug/l
RT: 4.712 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 76 Resp: 3290

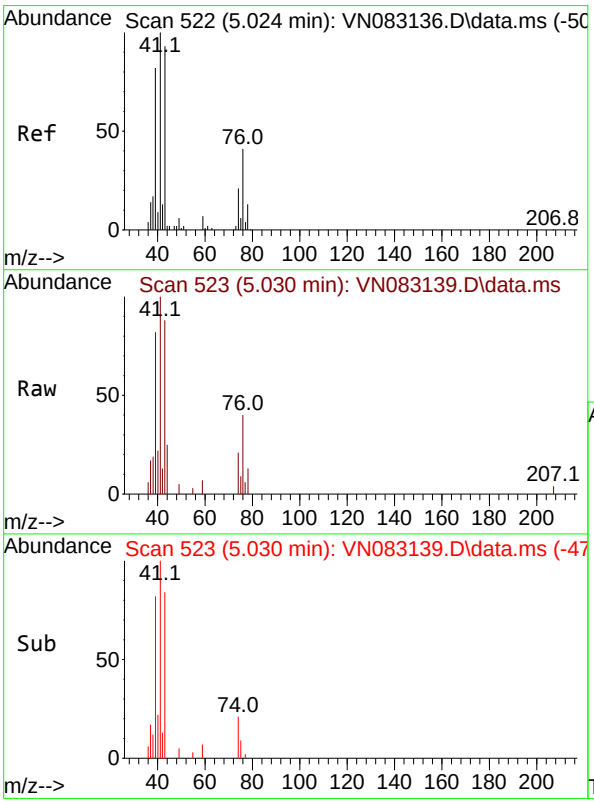
Ion	Ratio	Lower	Upper
76	100		
78	7.4	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

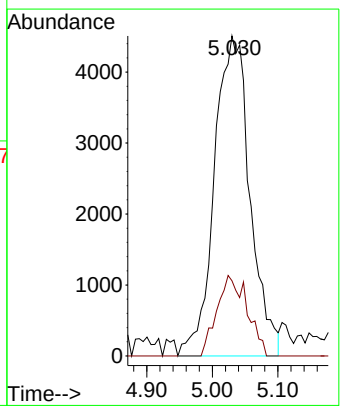
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

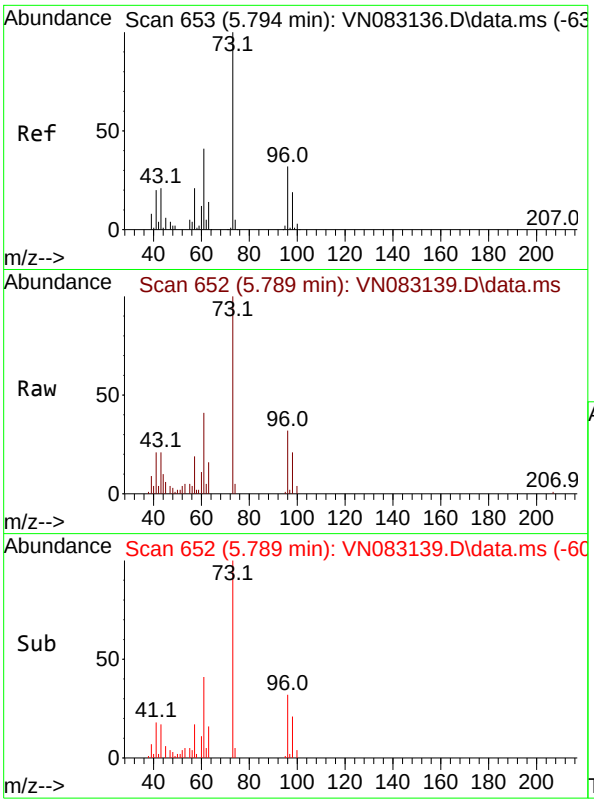


#18
Methyl Acetate
Concen: 5.084 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 43 Resp: 17029

Ion	Ratio	Lower	Upper
43	100		
74	21.4	16.3	24.5

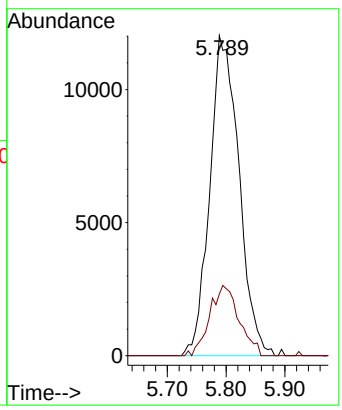




#19
Methyl tert-butyl Ether
Concen: 5.131 ug/l
RT: 5.789 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 73 Resp: 4143

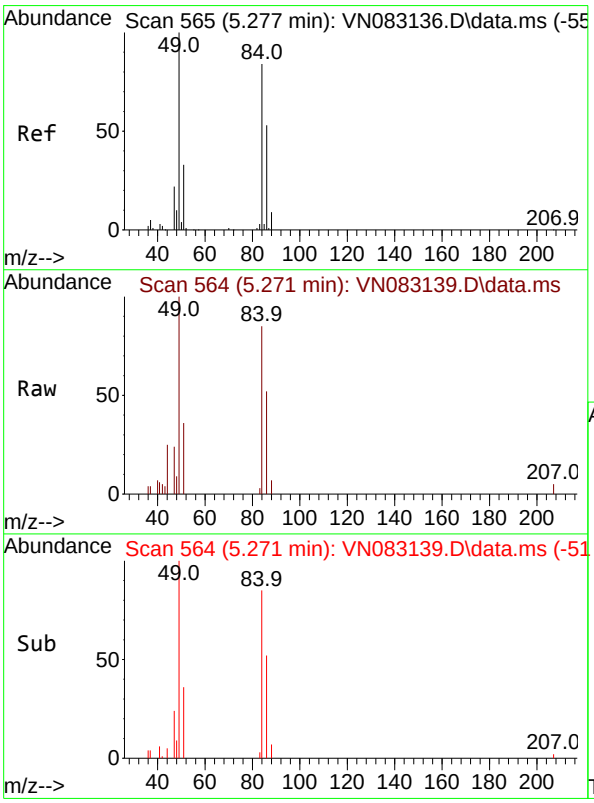
Ion	Ratio	Lower	Upper
73	100		
57	19.2	17.9	26.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

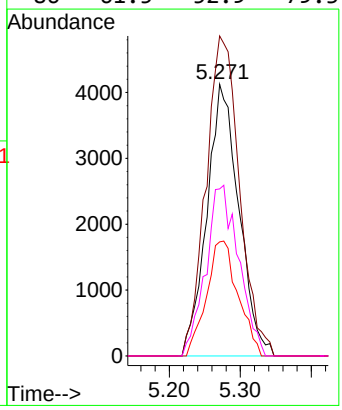
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

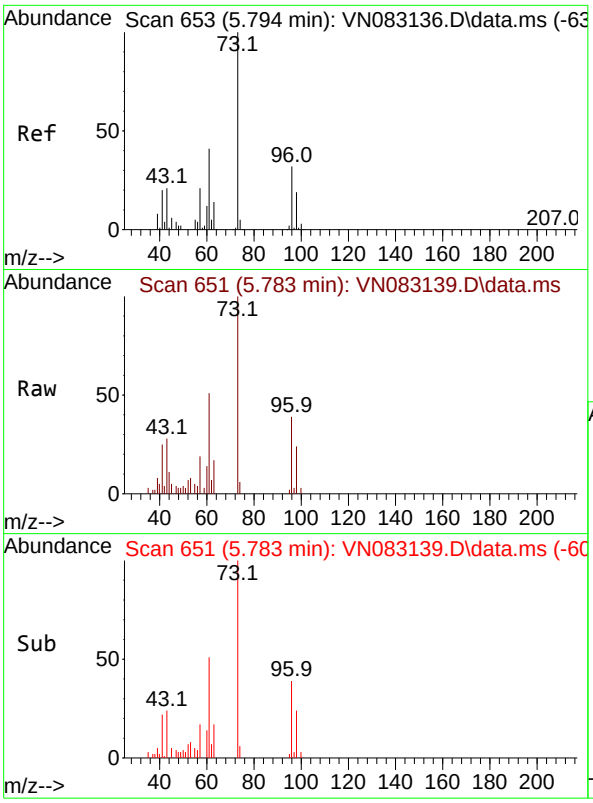


#20
Methylene Chloride
Concen: 4.991 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

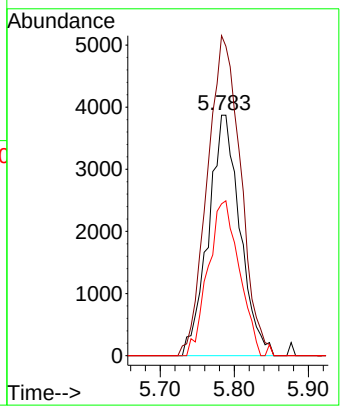




#21
trans-1,2-Dichloroethene
Concen: 4.957 ug/l
RT: 5.783 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 96 Resp: 1146

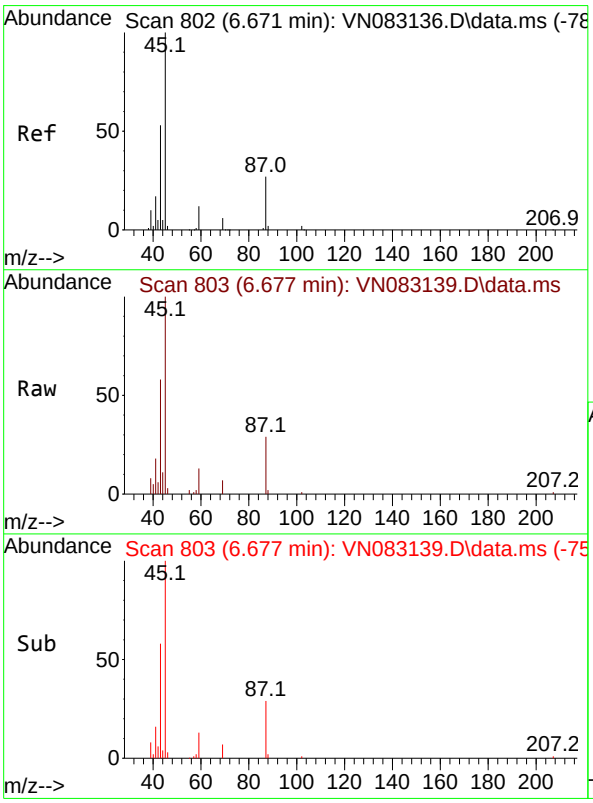
Ion	Ratio	Lower	Upper
96	100		
61	133.0	123.4	185.2
98	63.1	49.3	73.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

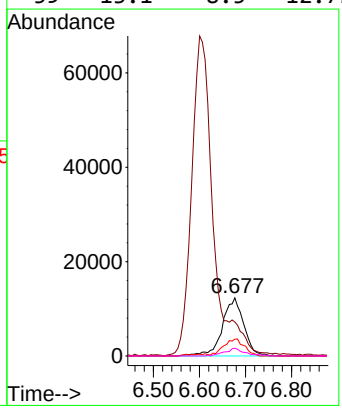
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

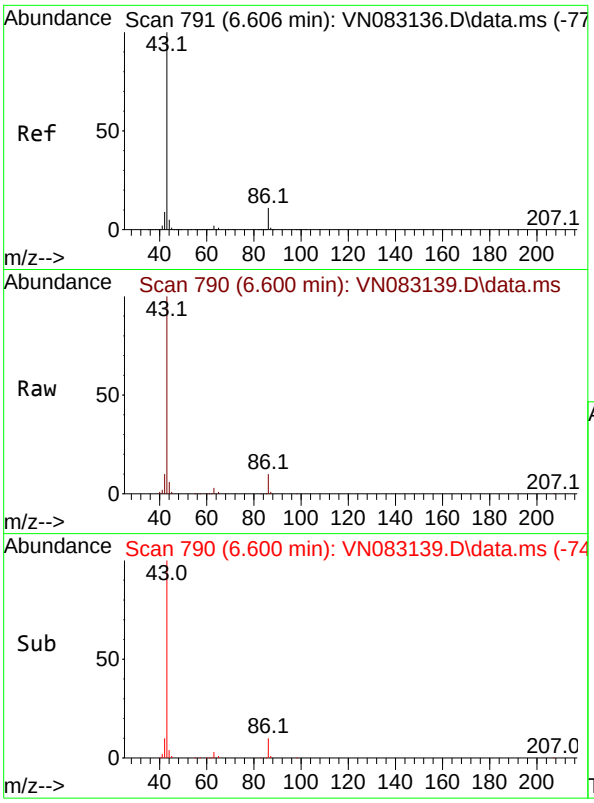


#22
Diisopropyl ether
Concen: 4.993 ug/l
RT: 6.677 min Scan# 803
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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#

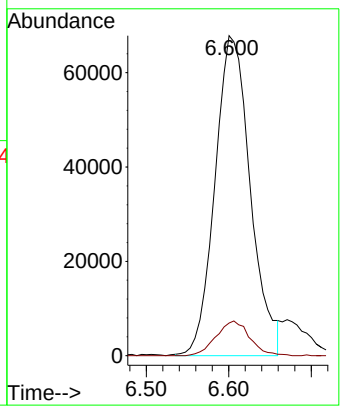




#23
Vinyl Acetate
Concen: 24.856 ug/l m
RT: 6.600 min Scan# 7
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 43 Resp: 20247

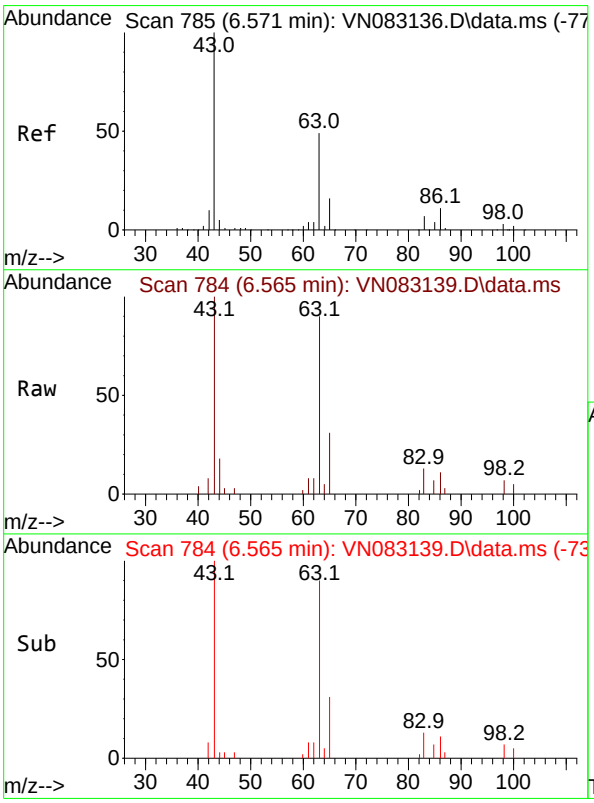
Ion	Ratio	Lower	Upper
43	100		
86	10.2	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

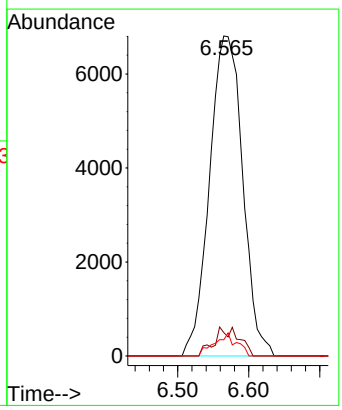
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

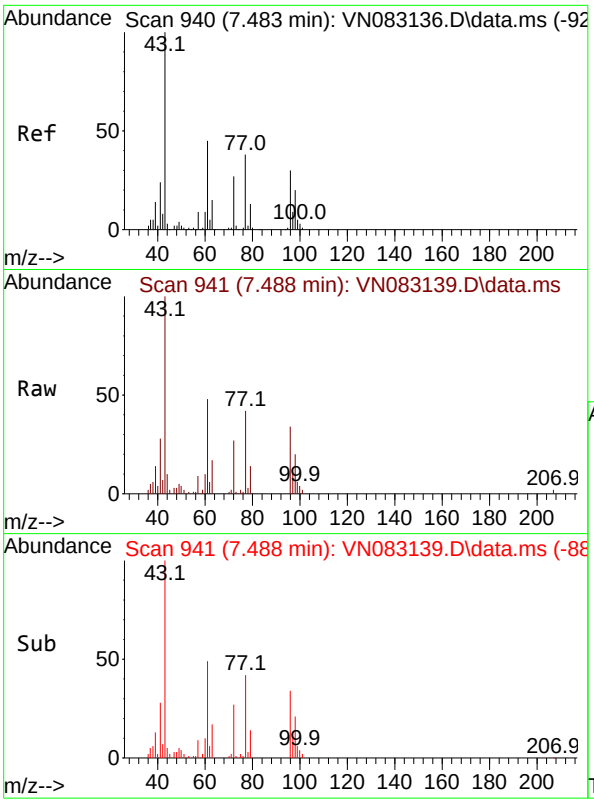


#24
1,1-Dichloroethane
Concen: 5.091 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

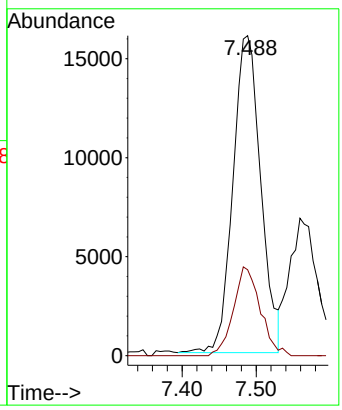
Tgt Ion: 43 Resp: 4175

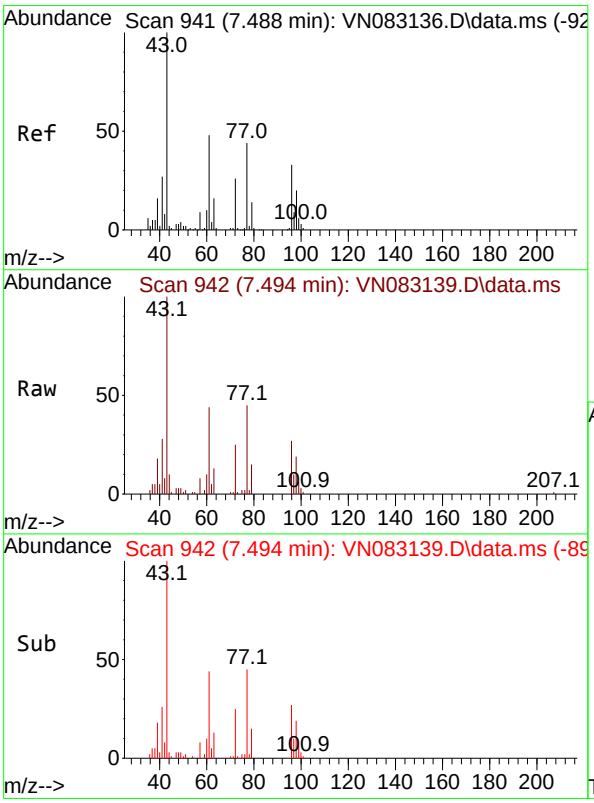
Ion	Ratio	Lower	Upper
43	100		
72	27.1	18.2	27.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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

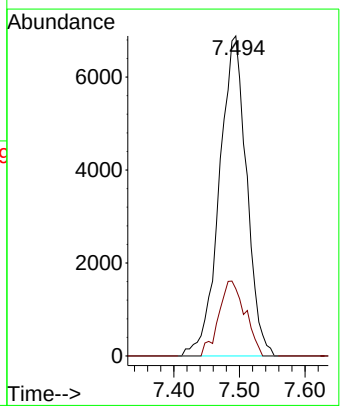


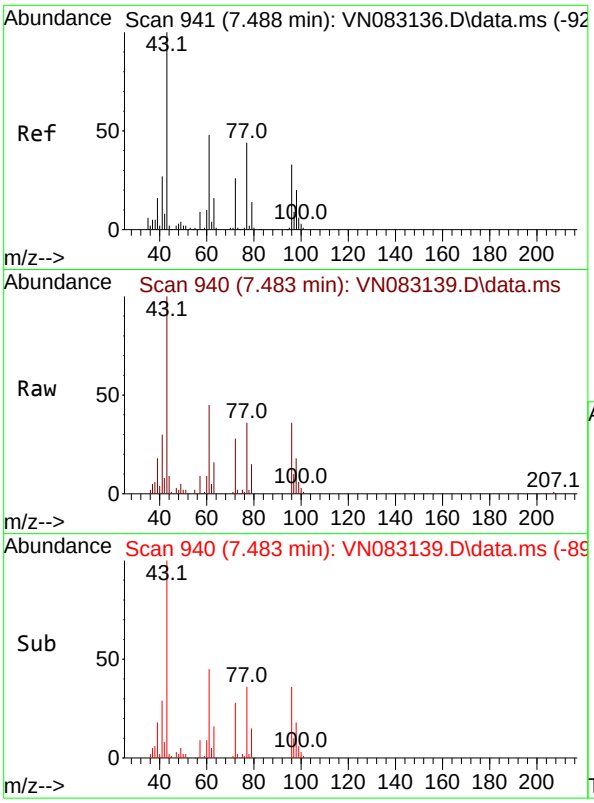


#26
2,2-Dichloropropane
Concen: 4.937 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 77 Resp: 19864

Ion	Ratio	Lower	Upper
77	100		
97	22.7	10.3	30.9

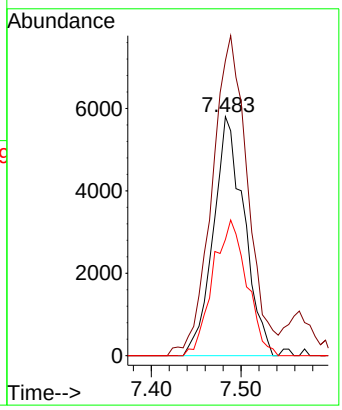




#27
cis-1,2-Dichloroethene
Concen: 4.967 ug/l
RT: 7.483 min Scan# 94
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 96 Resp: 1386

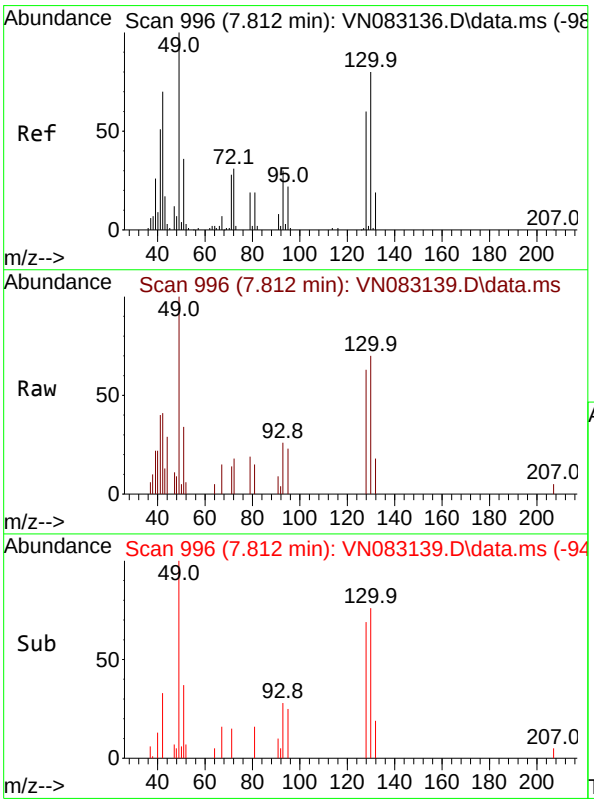
Ion	Ratio	Lower	Upper
96	100		
61	154.7	0.0	329.6
98	62.6	0.0	128.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

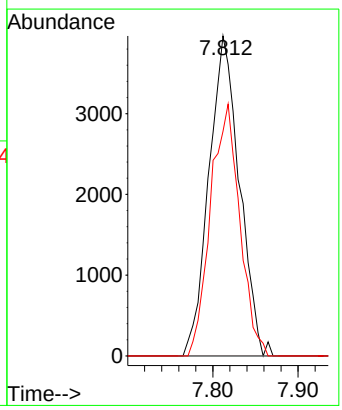
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

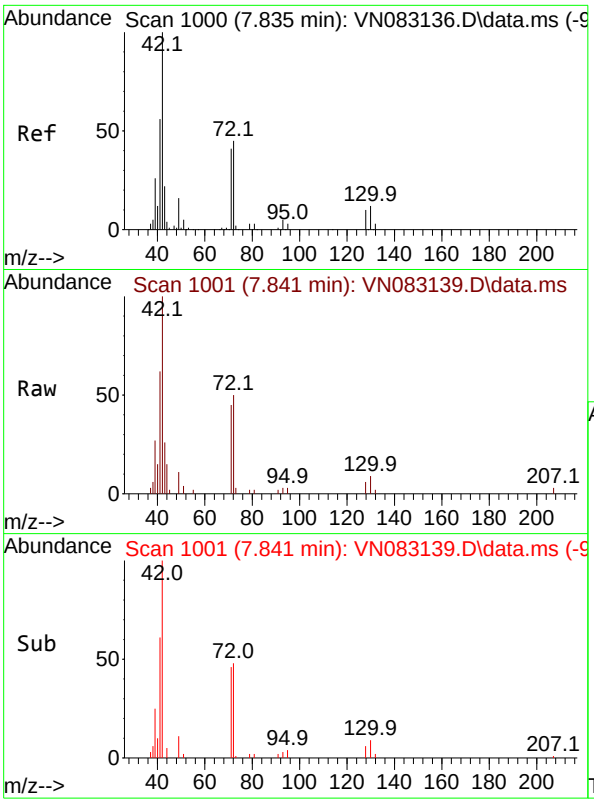


#28
Bromochloromethane
Concen: 5.577 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

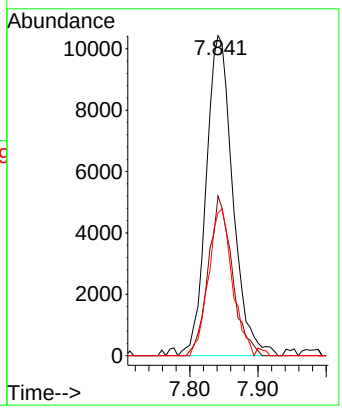




#29
Tetrahydrofuran
Concen: 25.324 ug/l
RT: 7.841 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 42 Resp: 2826

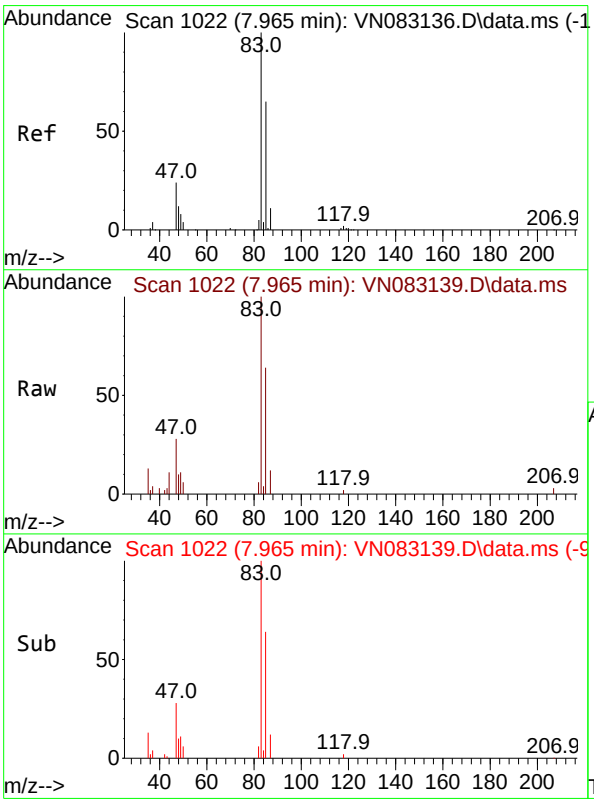
Ion	Ratio	Lower	Upper
42	100		
72	44.9	30.0	45.0
71	41.3	28.3	42.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

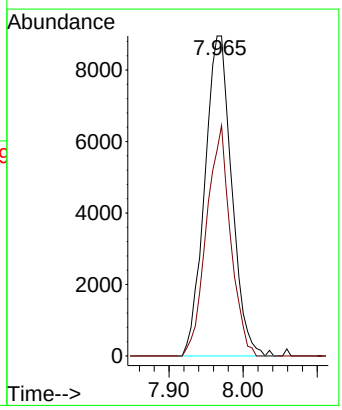
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

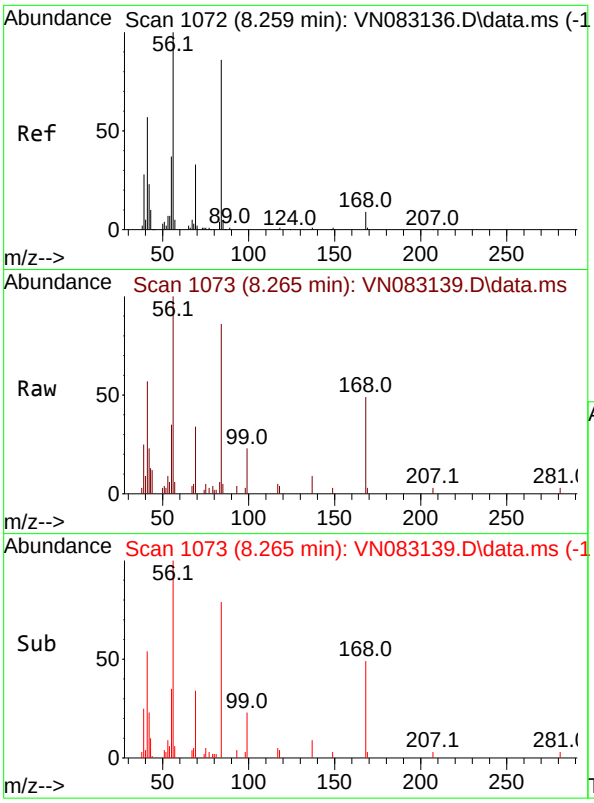


#30
Chloroform
Concen: 5.032 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 83 Resp: 22650

Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.9	76.3

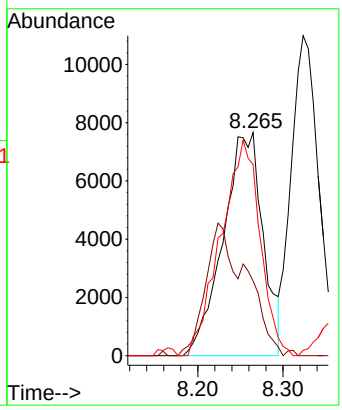




#31
Cyclohexane
Concen: 5.871 ug/l
RT: 8.265 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 56 Resp: 2499

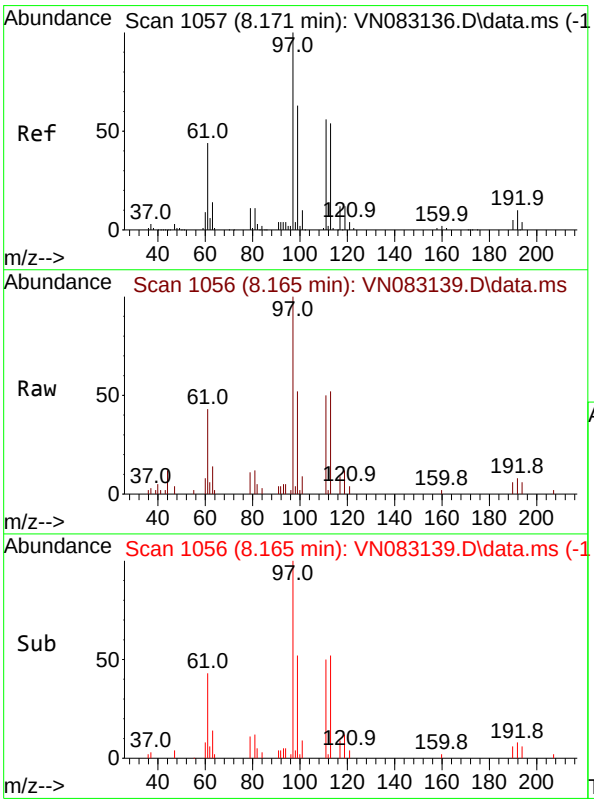
Ion	Ratio	Lower	Upper
56	100		
69	33.5	24.5	36.7
84	85.8	66.0	99.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

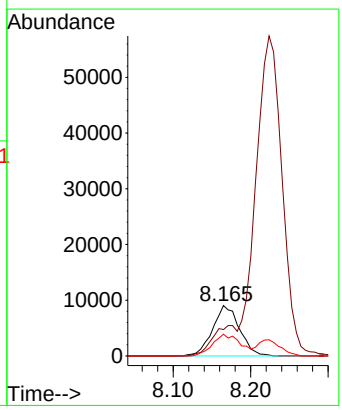
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

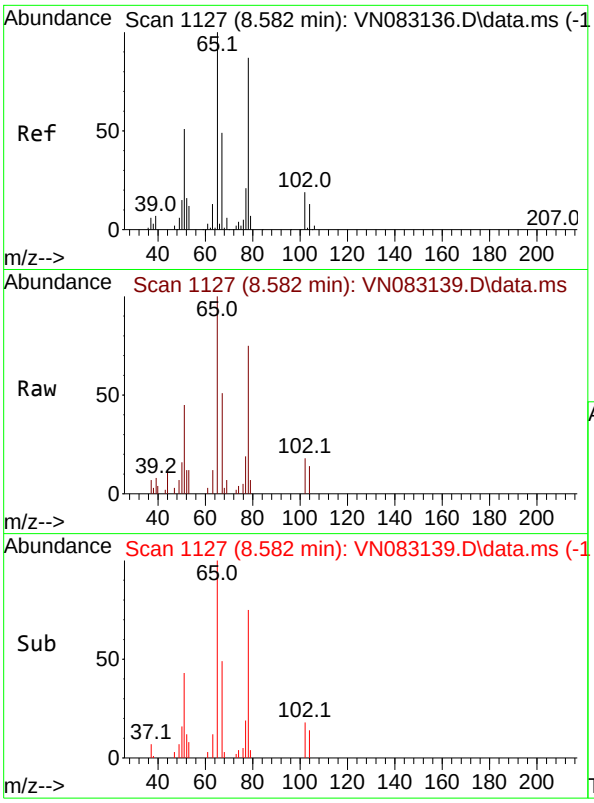


#32
1,1,1-Trichloroethane
Concen: 5.123 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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# 11
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

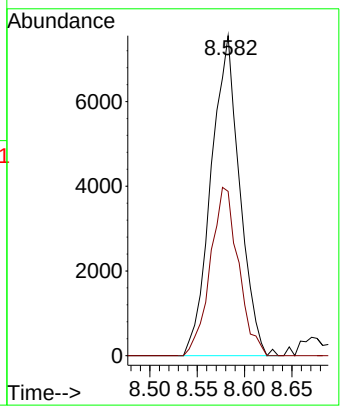
Tgt Ion: 65 Resp: 1586

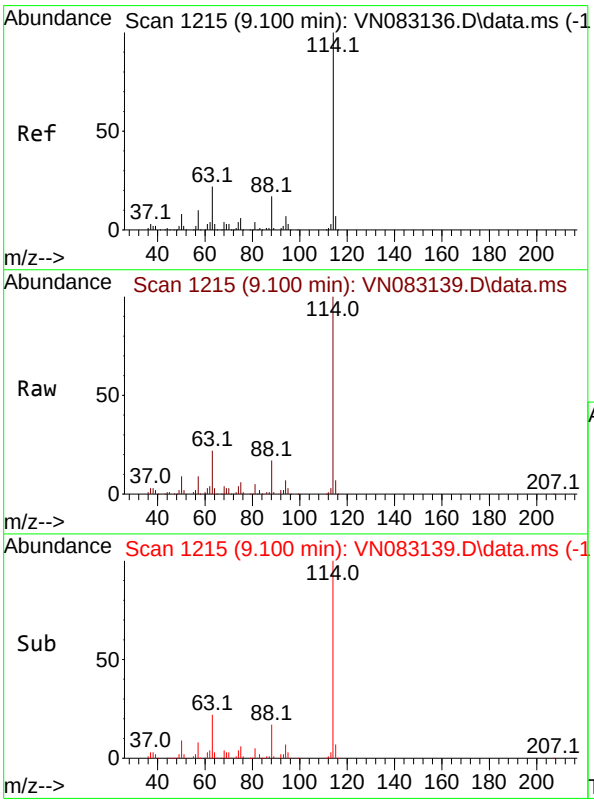
Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	104.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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

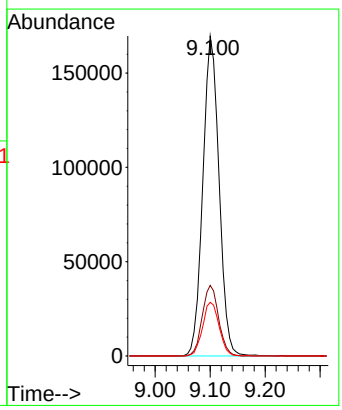


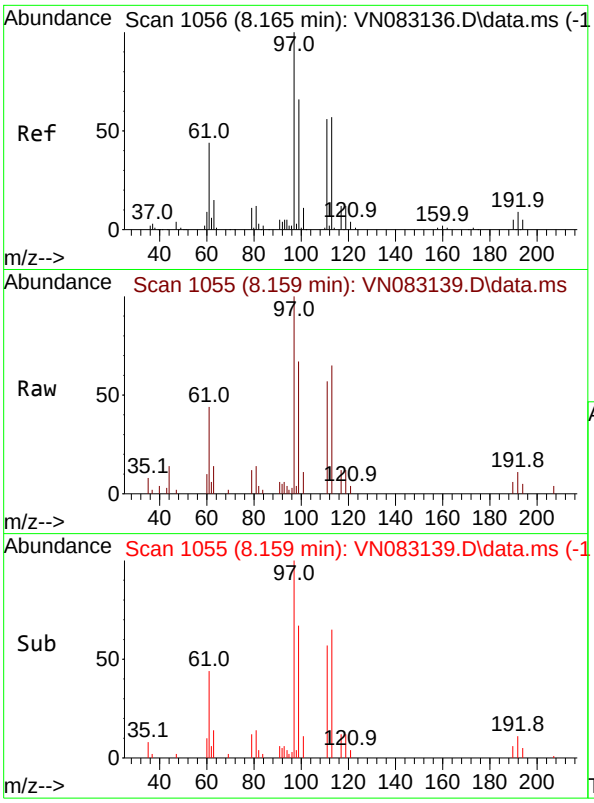


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

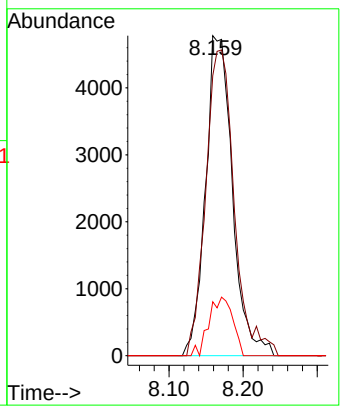




#35
Dibromofluoromethane
Concen: 5.549 ug/l
RT: 8.159 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:113 Resp: 1203

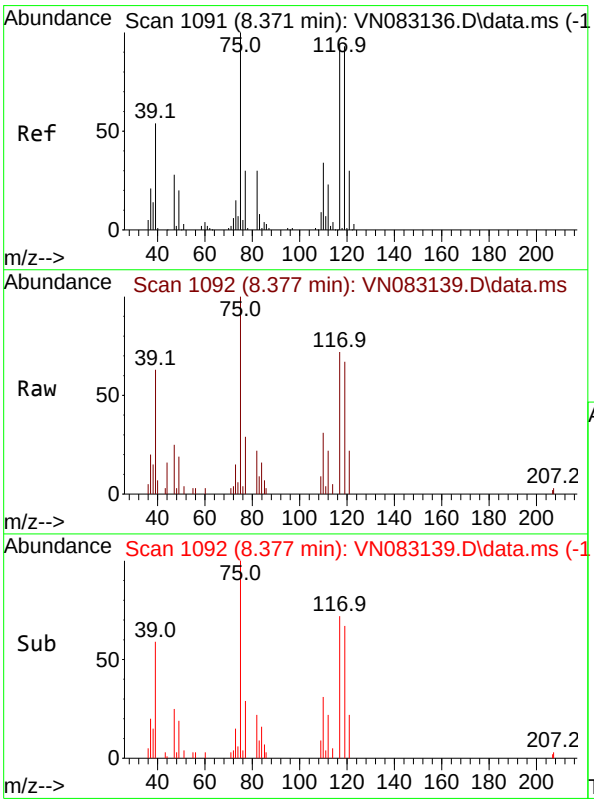
Ion	Ratio	Lower	Upper
113	100		
111	101.4	82.4	123.6
192	16.2	14.9	22.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

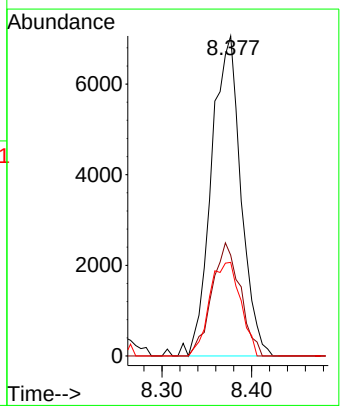
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

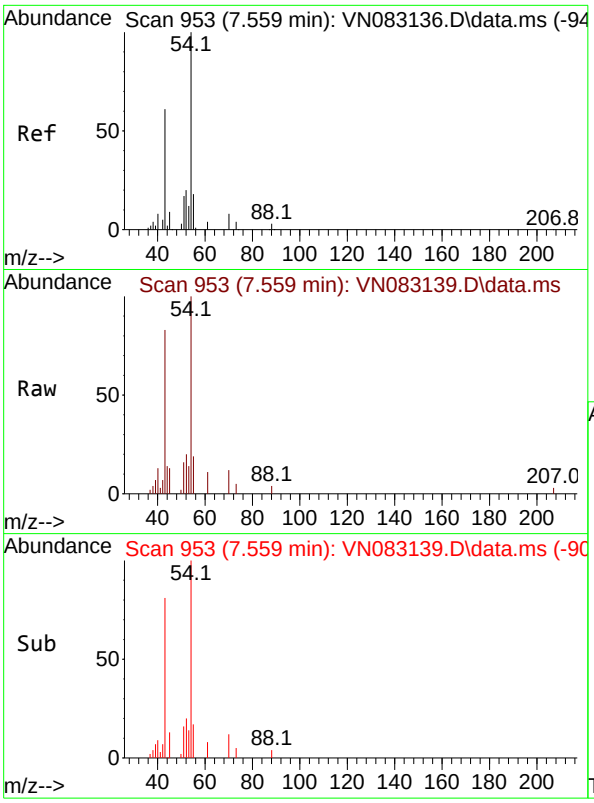


#36
1,1-Dichloropropene
Concen: 4.907 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

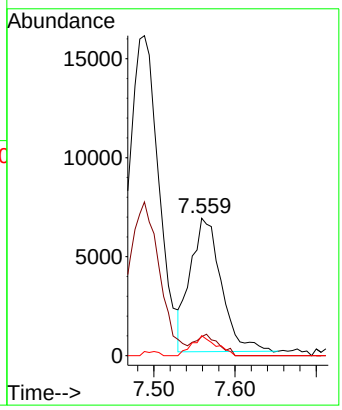
Tgt Ion: 43 Resp: 1790

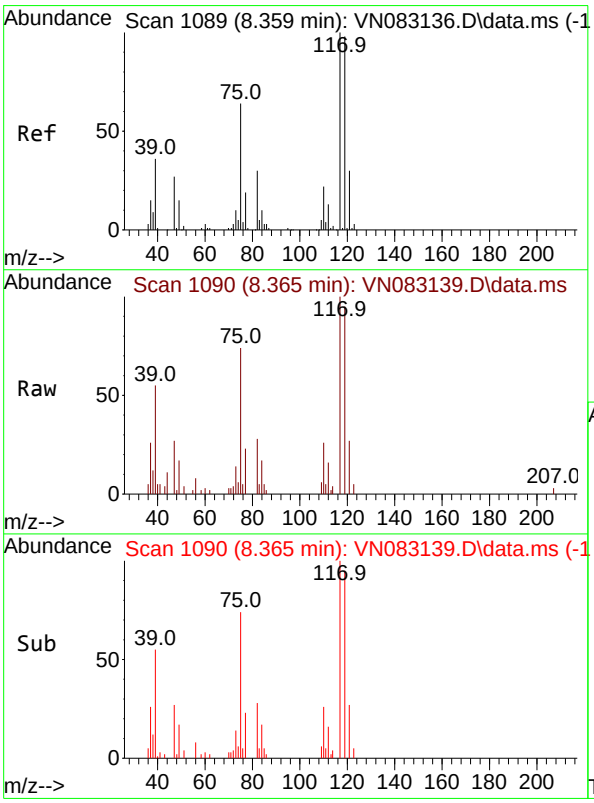
Ion	Ratio	Lower	Upper
43	100		
61	12.1	9.3	13.9
70	11.6	7.0	10.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

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

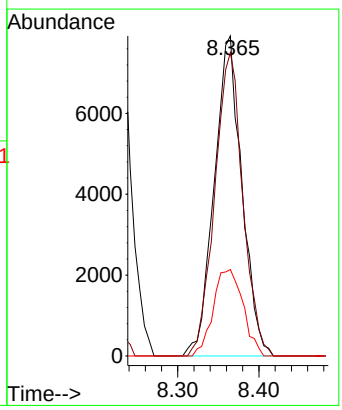


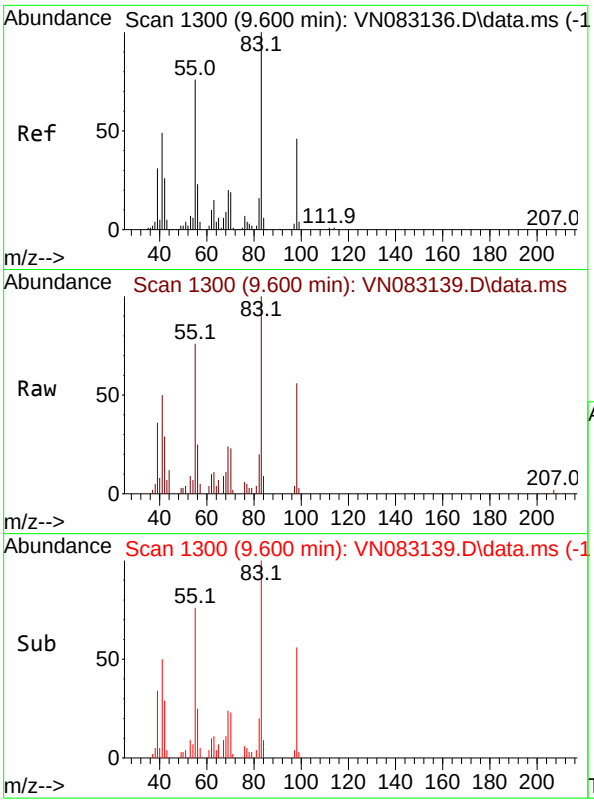


#38
Carbon Tetrachloride
Concen: 5.067 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

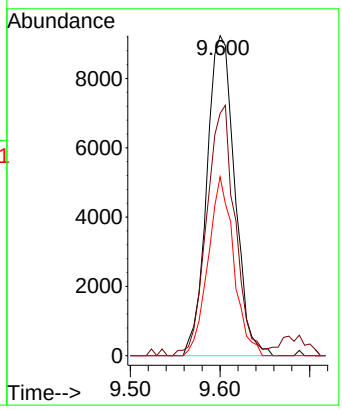




#39
Methylcyclohexane
Concen: 4.957 ug/l
RT: 9.600 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 83 Resp: 1998

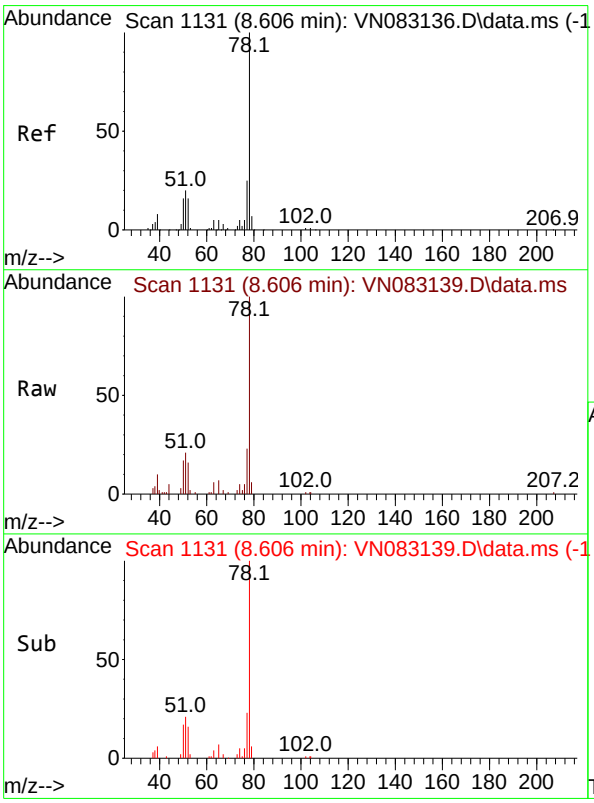
Ion	Ratio	Lower	Upper
83	100		
55	74.1	66.4	99.6
98	55.9	40.7	61.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

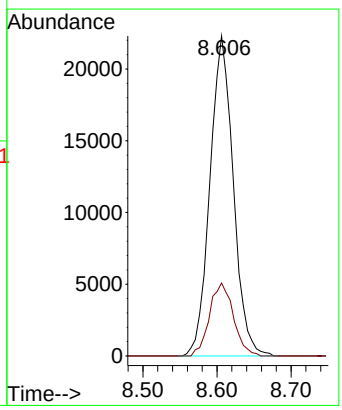
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

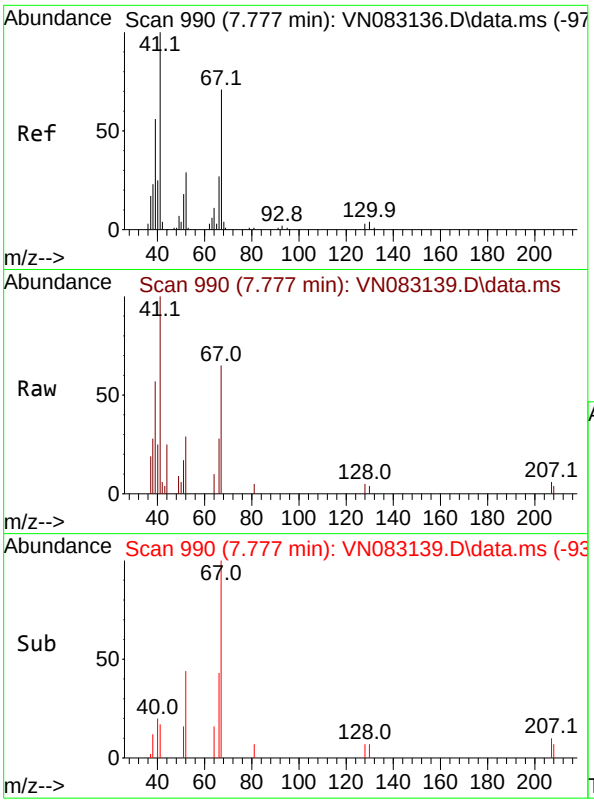


#40
Benzene
Concen: 4.988 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 78 Resp: 48765

Ion	Ratio	Lower	Upper
78	100		
77	22.8	19.0	28.4

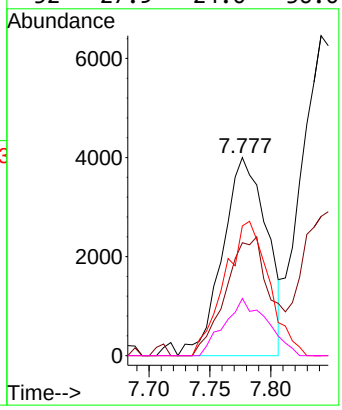




#41
Methacrylonitrile
Concen: 4.828 ug/l
RT: 7.777 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 41 Resp: 1008

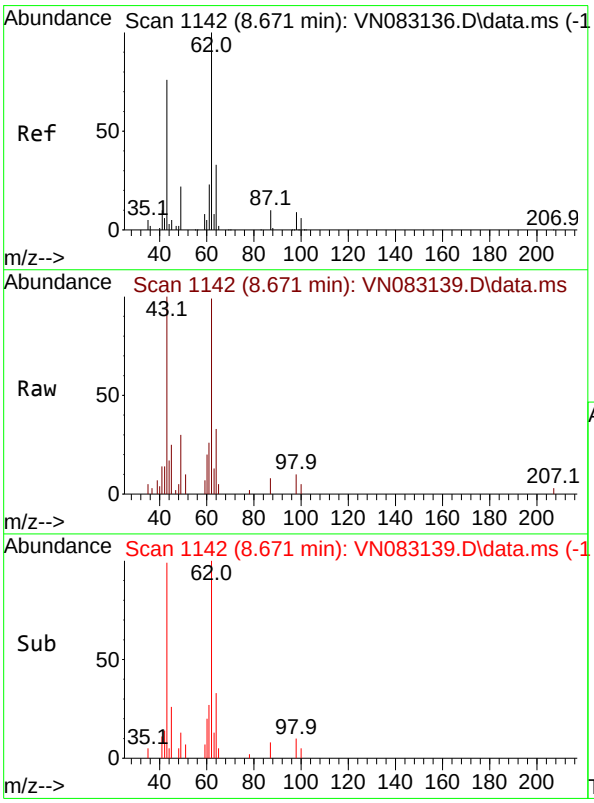
Ion	Ratio	Lower	Upper
41	100		
39	60.2	45.5	68.3
67	68.2	50.5	75.7
52	27.9	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

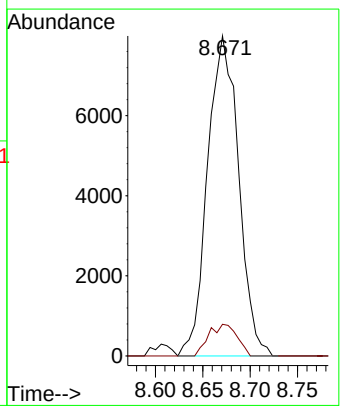
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

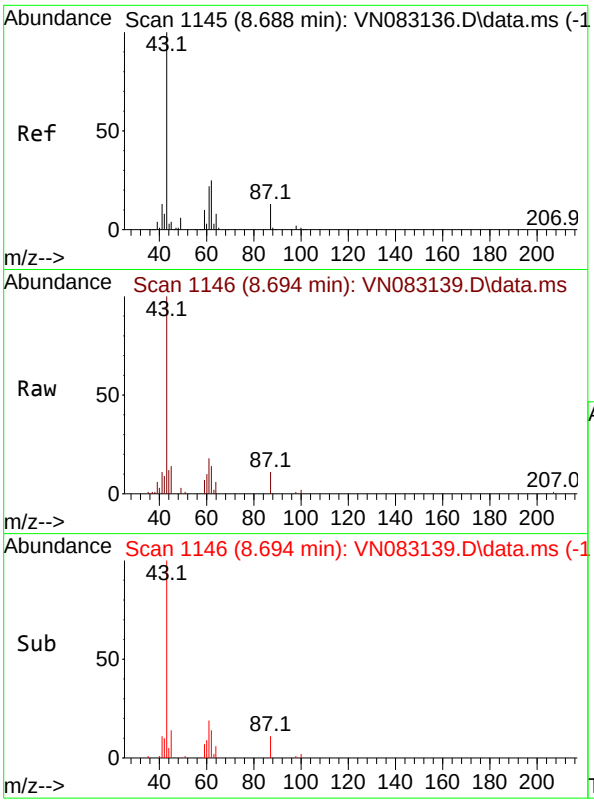


#42
1,2-Dichloroethane
Concen: 5.116 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

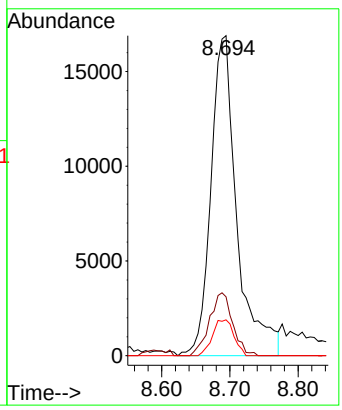
Tgt Ion: 43 Resp: 4481

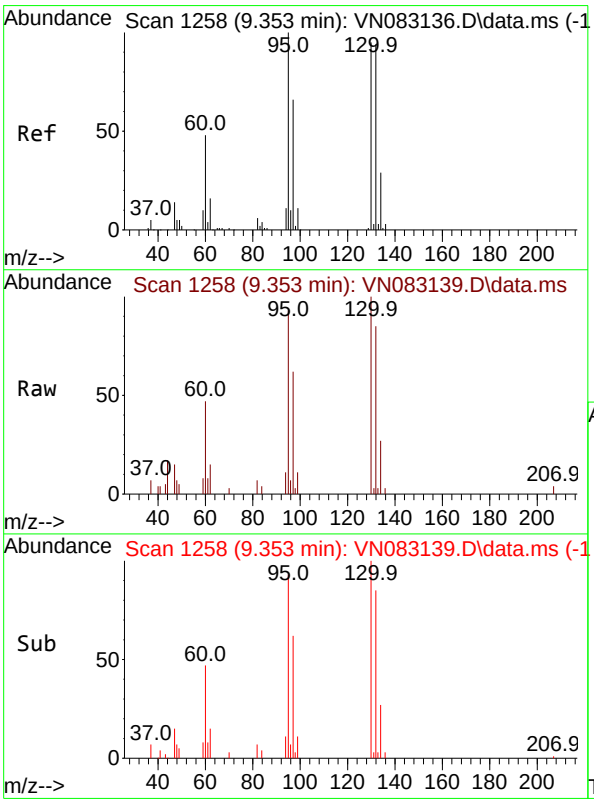
Ion	Ratio	Lower	Upper
43	100		
61	17.5	17.8	26.6
87	9.2	8.2	12.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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

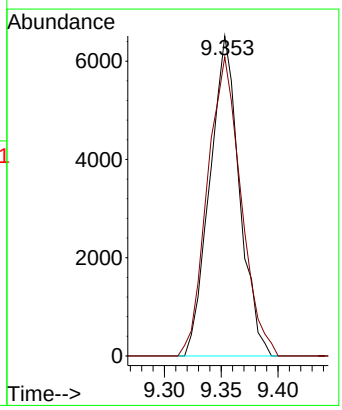


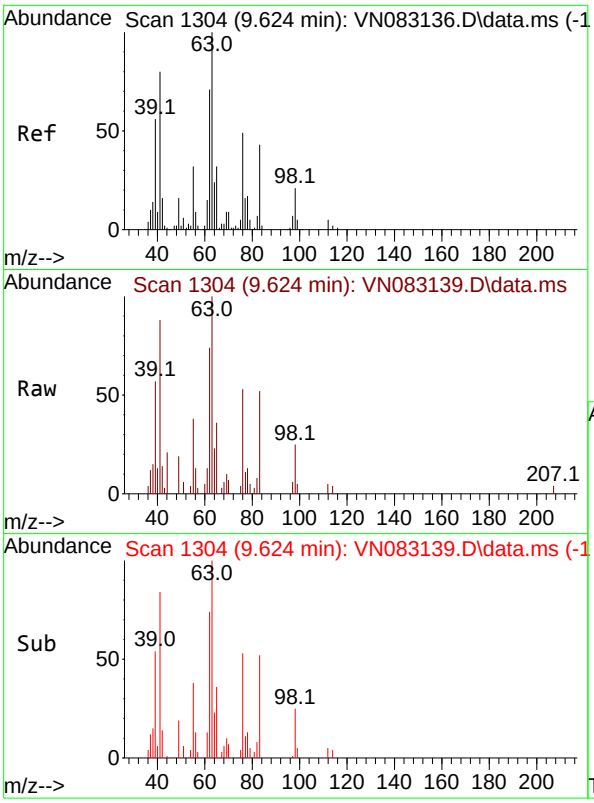


#44
Trichloroethene
Concen: 5.084 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:130 Resp: 11830

Ion	Ratio	Lower	Upper
130	100		
95	93.4	0.0	197.8

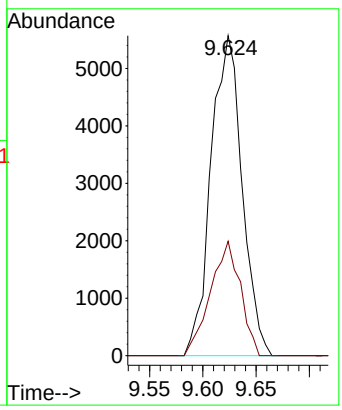




#45
1,2-Dichloropropane
Concen: 4.878 ug/l
RT: 9.624 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 63 Resp: 1132

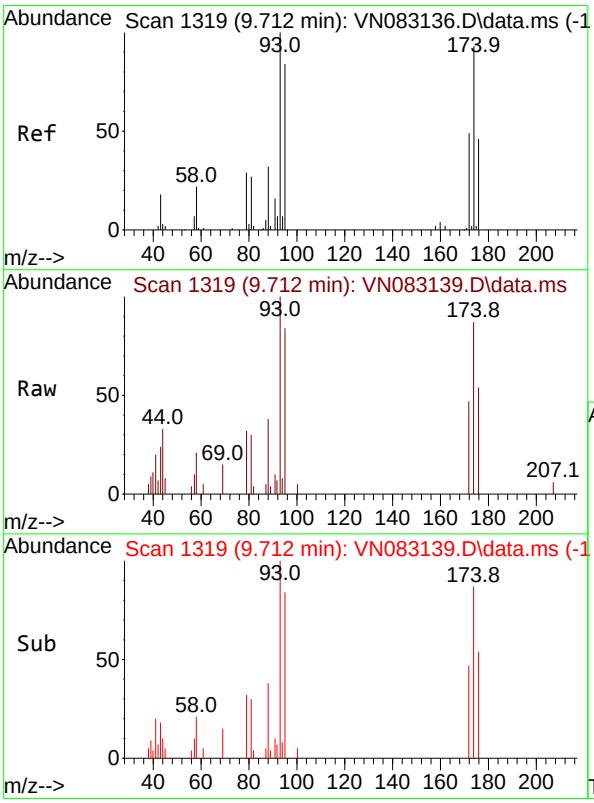
Ion	Ratio	Lower	Upper
63	100		
65	35.7	24.4	36.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

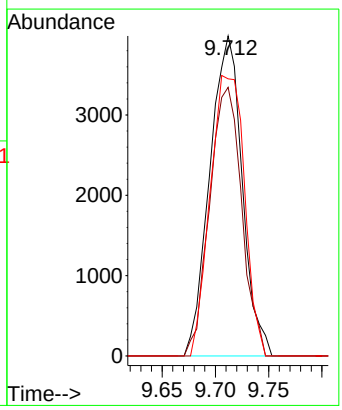
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

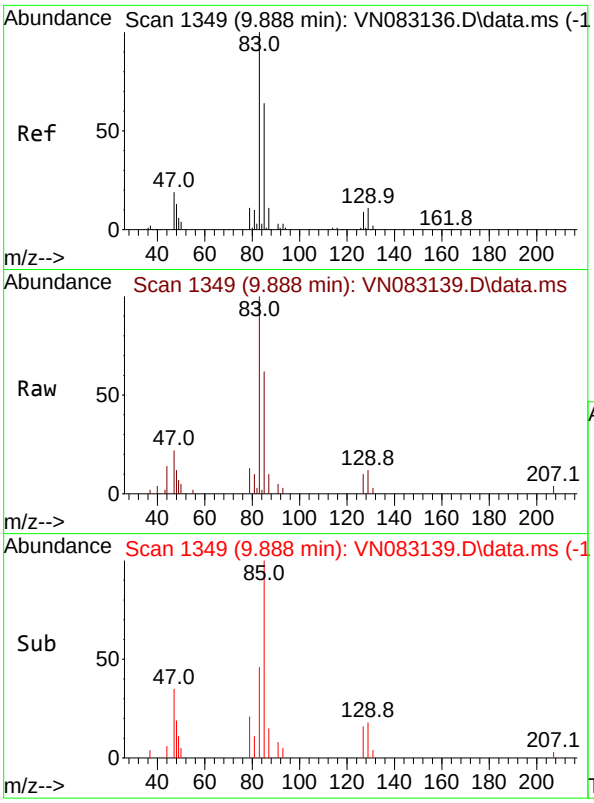


#46
Dibromomethane
Concen: 5.079 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

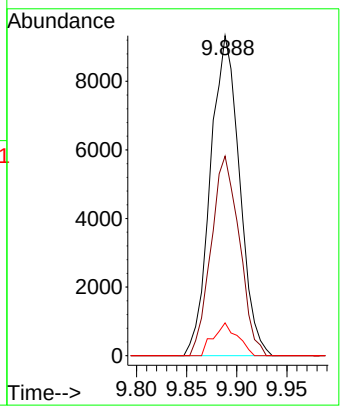




#47
Bromodichloromethane
Concen: 5.040 ug/l
RT: 9.888 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 83 Resp: 1879

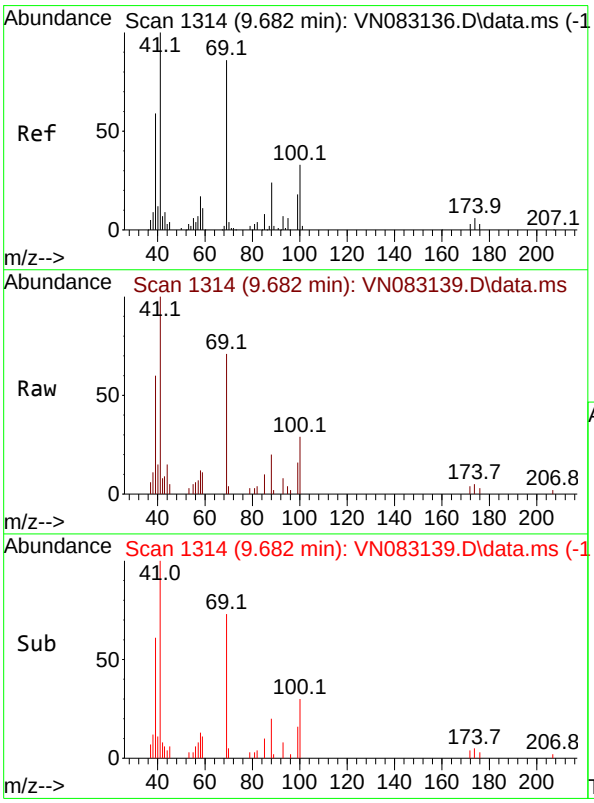
Ion	Ratio	Lower	Upper
83	100		
85	62.3	51.1	76.7
127	10.3	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

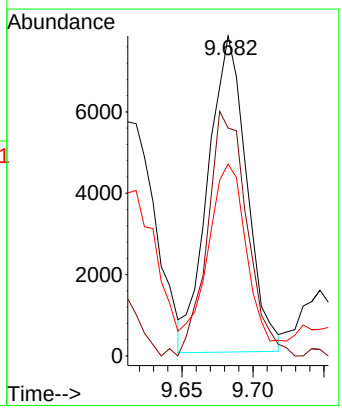
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

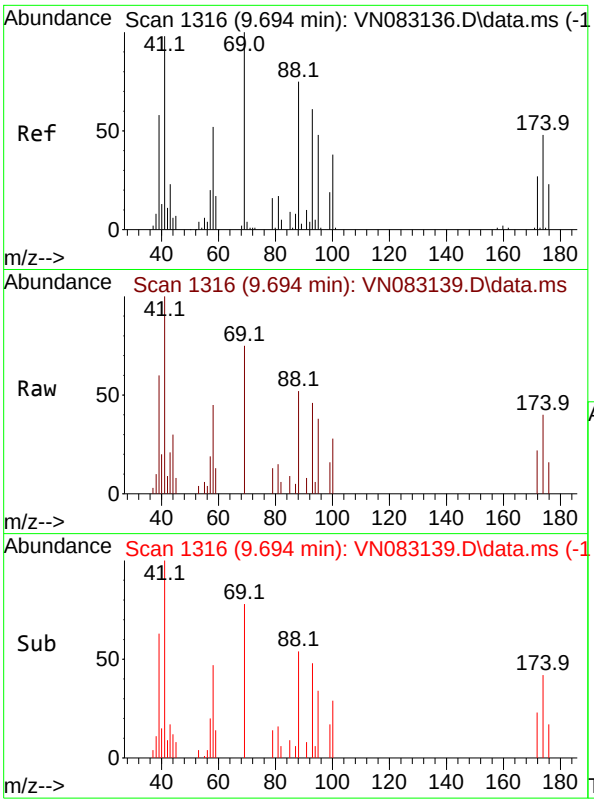


#48
Methyl methacrylate
Concen: 4.840 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

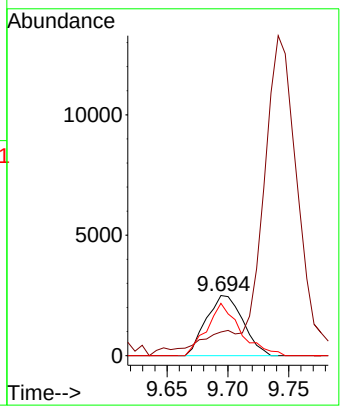
Tgt Ion: 88 Resp: 523

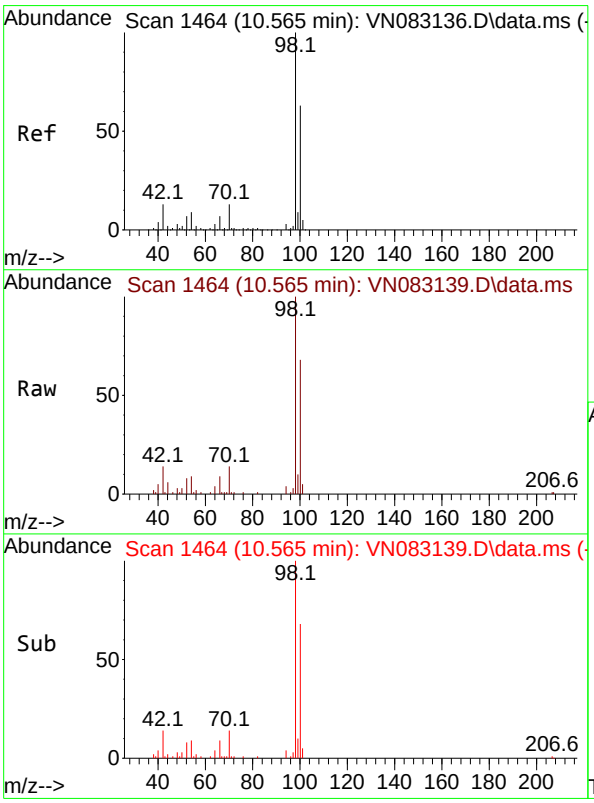
Ion	Ratio	Lower	Upper
88	100		
43	0.0	27.8	41.8
58	79.3	59.4	89.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

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

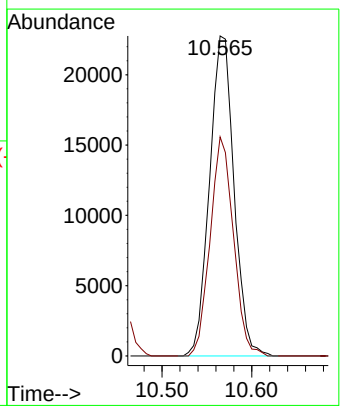


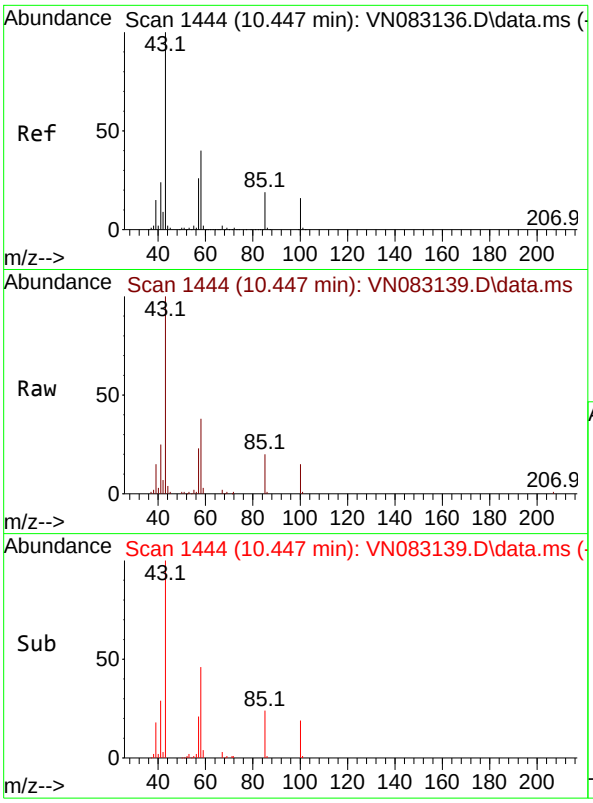


#50
Toluene-d8
Concen: 5.326 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 98 Resp: 43104

Ion	Ratio	Lower	Upper
98	100		
100	65.2	51.5	77.3

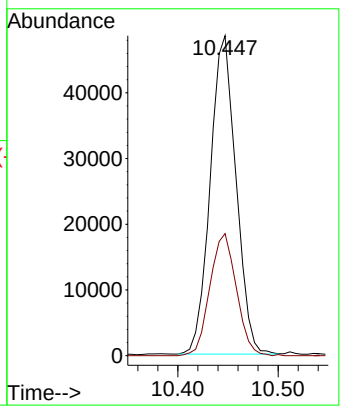




#51
4-Methyl-2-Pentanone
Concen: 24.946 ug/l
RT: 10.447 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 43 Resp: 8667

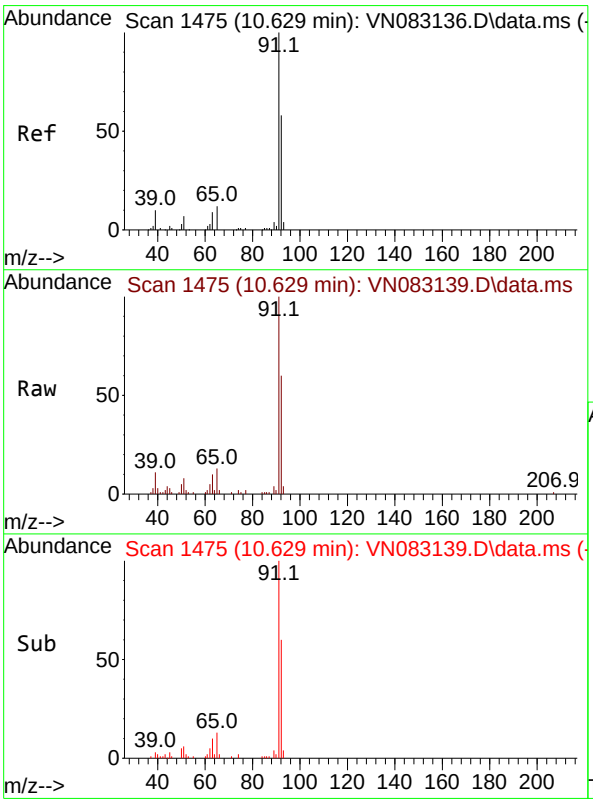
Ion	Ratio	Lower	Upper
43	100		
58	39.3	28.2	42.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

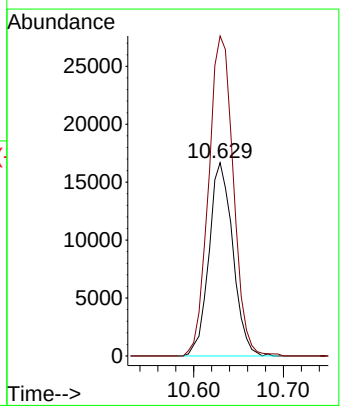
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

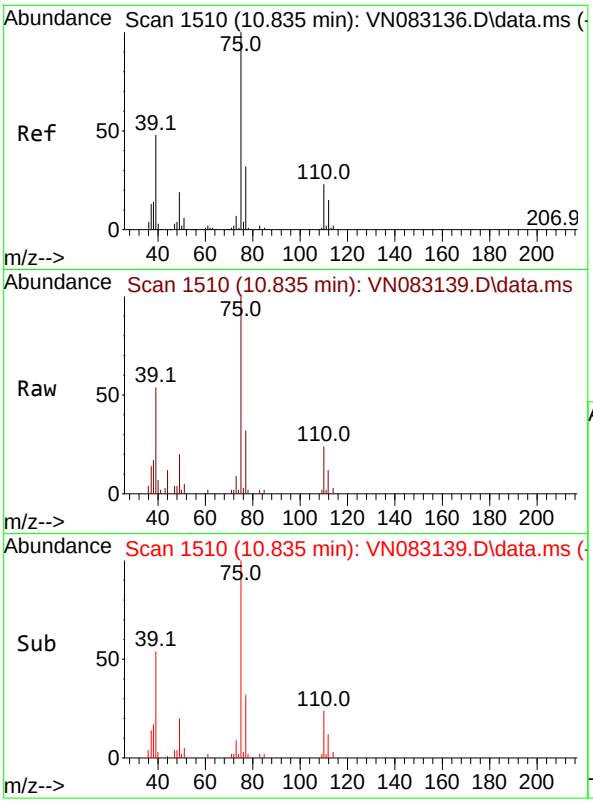


#52
Toluene
Concen: 4.981 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 92 Resp: 30769

Ion	Ratio	Lower	Upper
92	100		
91	172.3	139.4	209.0

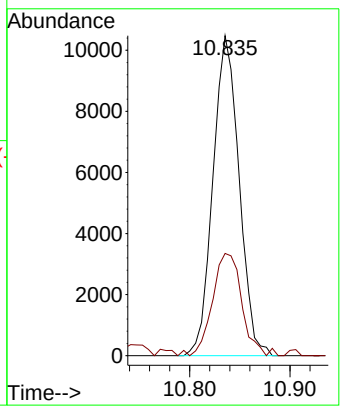




#53
t-1,3-Dichloropropene
Concen: 4.950 ug/l
RT: 10.835 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 75 Resp: 1896

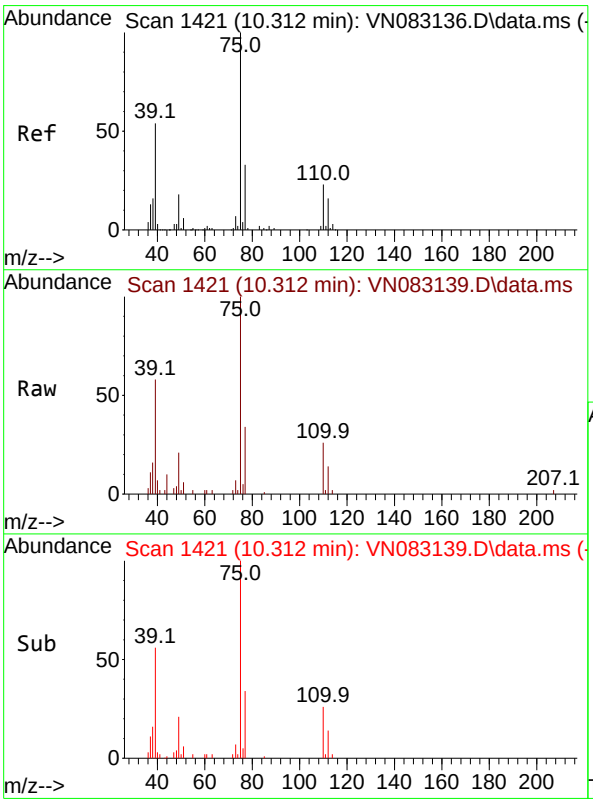
Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

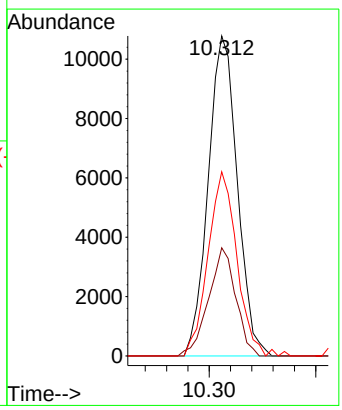
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

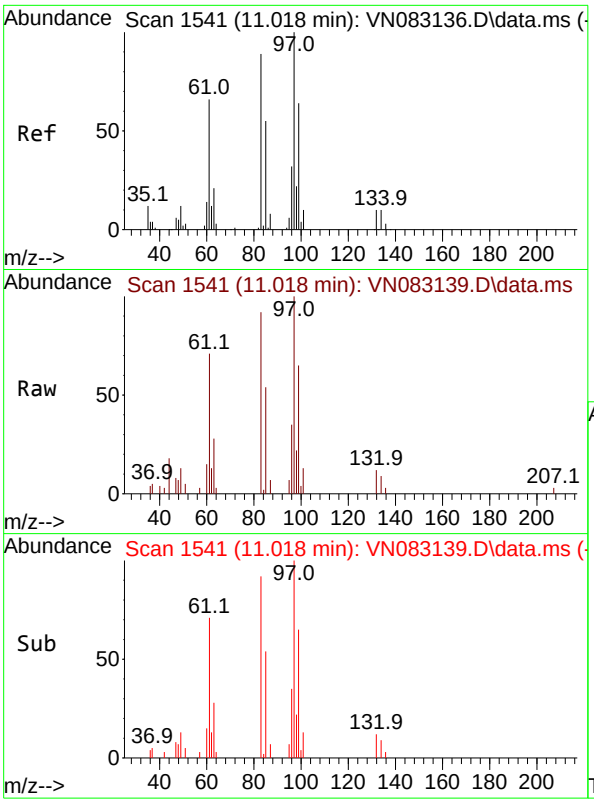


#54
cis-1,3-Dichloropropene
Concen: 5.014 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

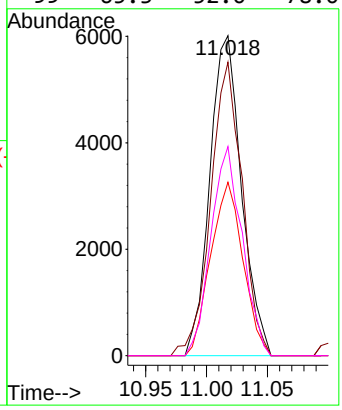




#55
1,1,2-Trichloroethane
Concen: 4.930 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 97 Resp: 1091

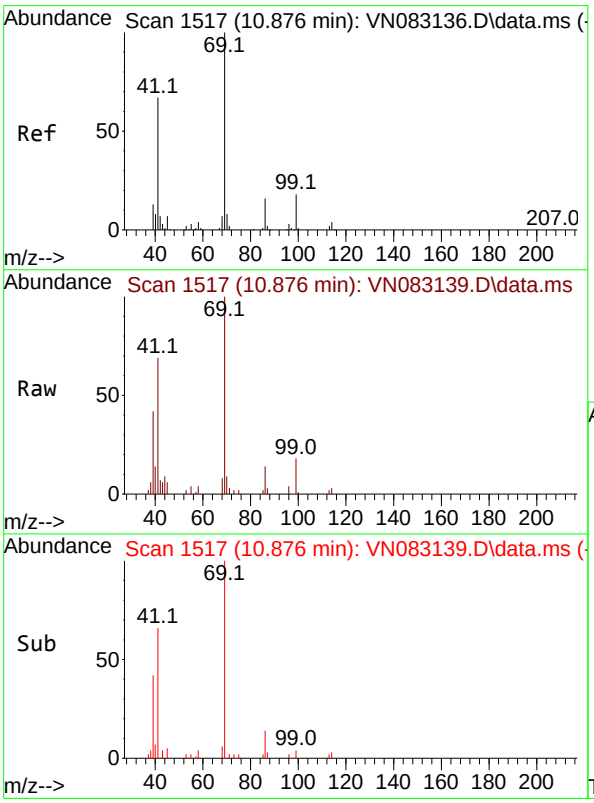
Ion	Ratio	Lower	Upper
97	100		
83	91.7	71.4	107.0
85	54.2	45.8	68.6
99	65.3	52.0	78.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

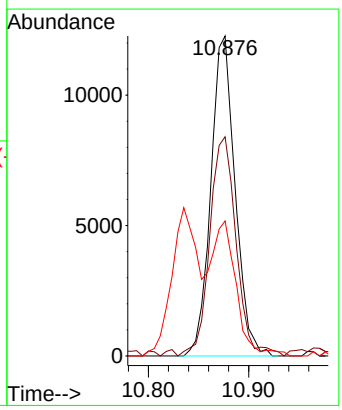
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

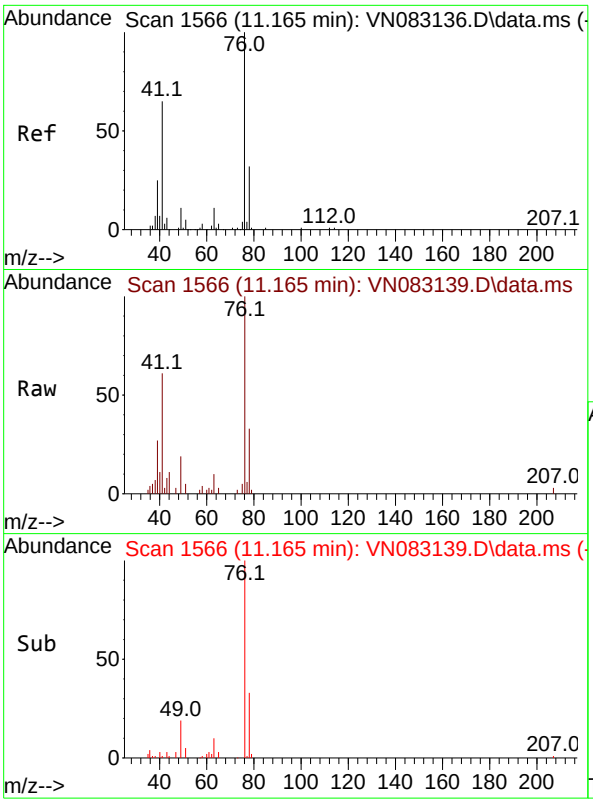


#56
Ethyl methacrylate
Concen: 4.951 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

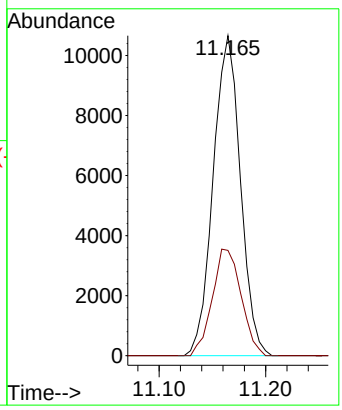




#57
1,3-Dichloropropane
Concen: 4.799 ug/l
RT: 11.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 76 Resp: 1893

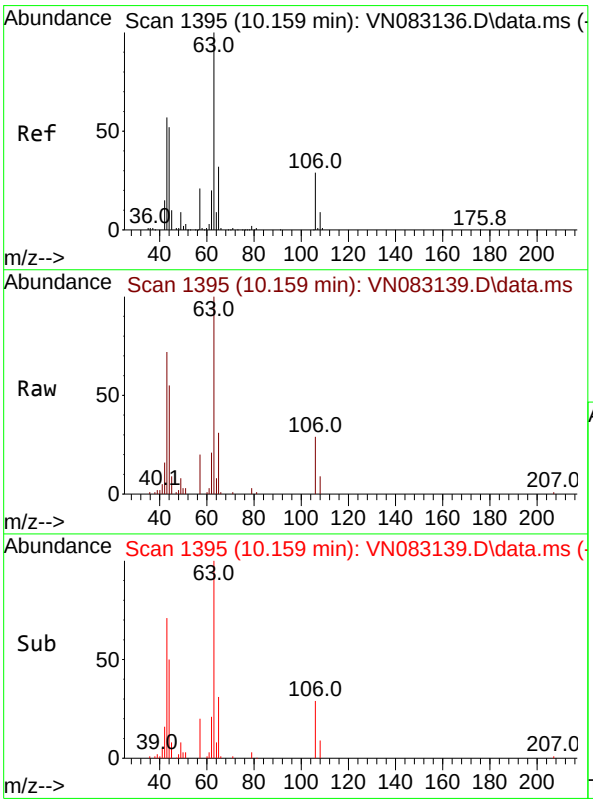
Ion	Ratio	Lower	Upper
76	100		
78	35.3	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

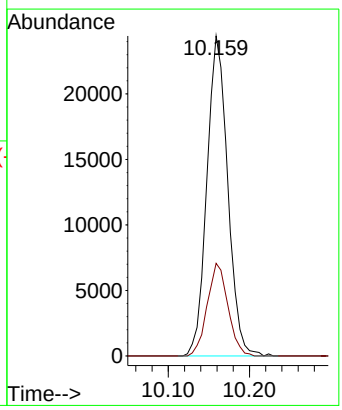
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

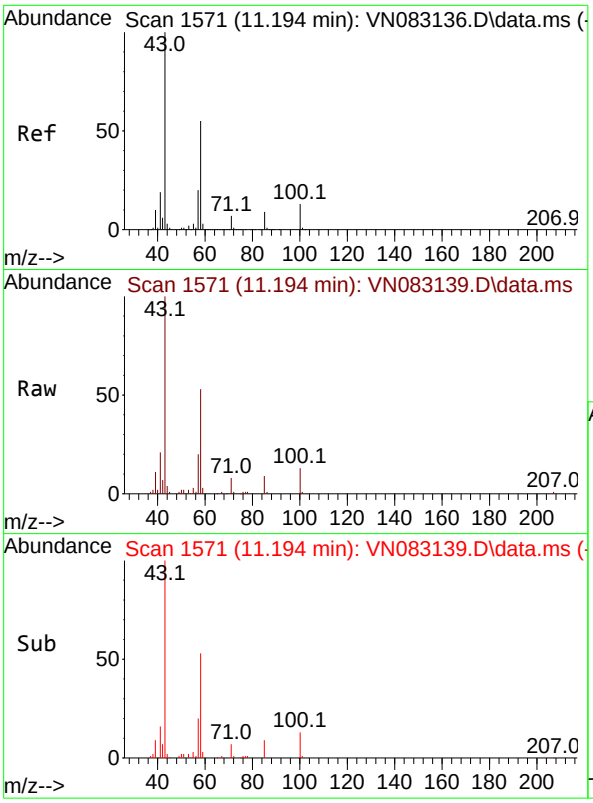


#58
2-Chloroethyl Vinyl ether
Concen: 24.676 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 63 Resp: 43528

Ion	Ratio	Lower	Upper
63	100		
106	28.8	21.4	32.0

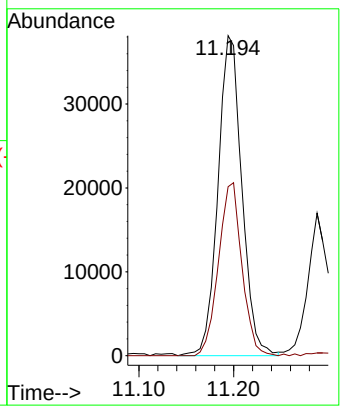




#59
2-Hexanone
Concen: 24.870 ug/l
RT: 11.194 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 43 Resp: 6685

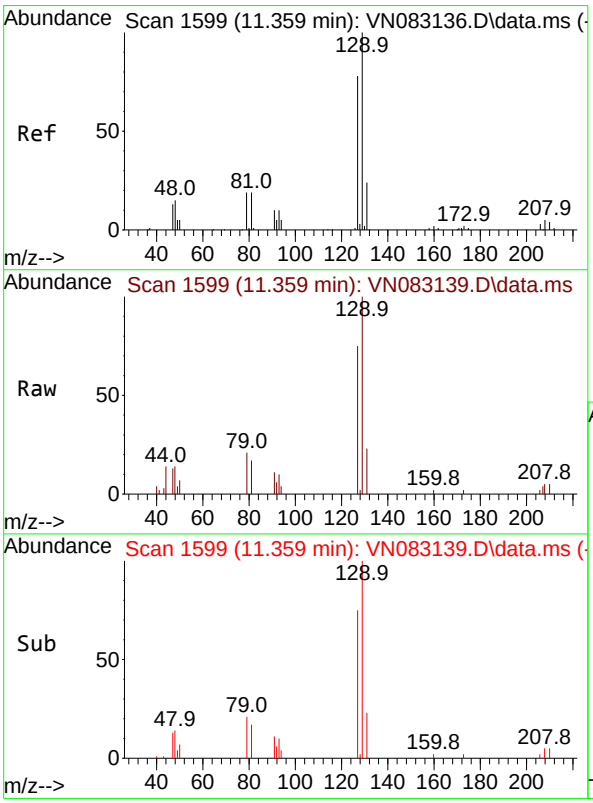
Ion	Ratio	Lower	Upper
43	100		
58	52.9	24.6	73.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

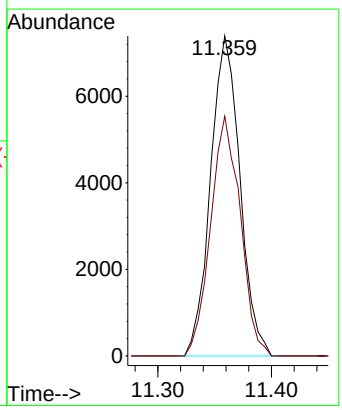
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

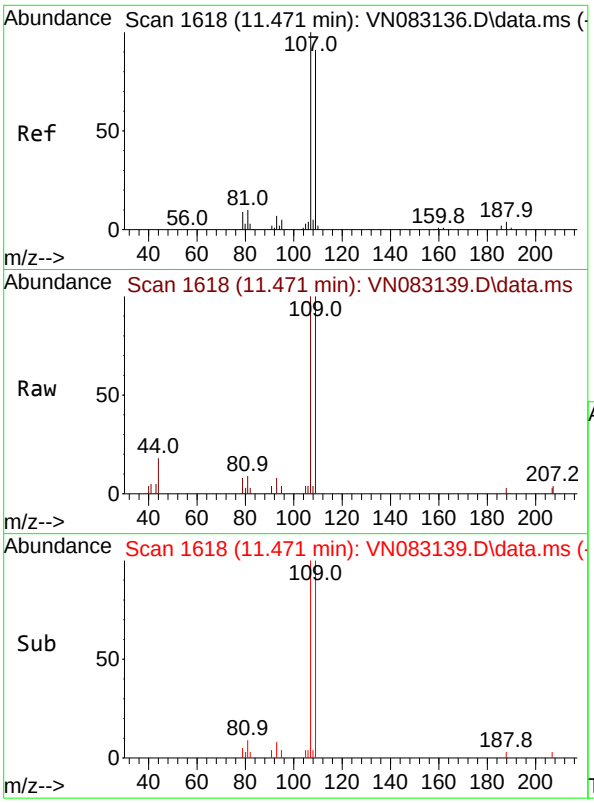


#60
Dibromochloromethane
Concen: 4.972 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

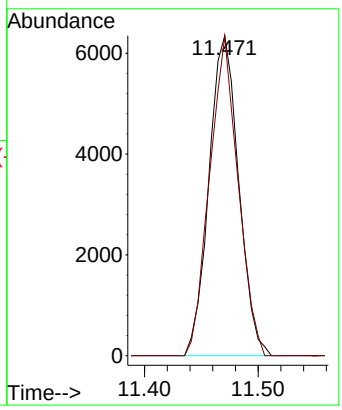
Tgt Ion:107 Resp: 1152

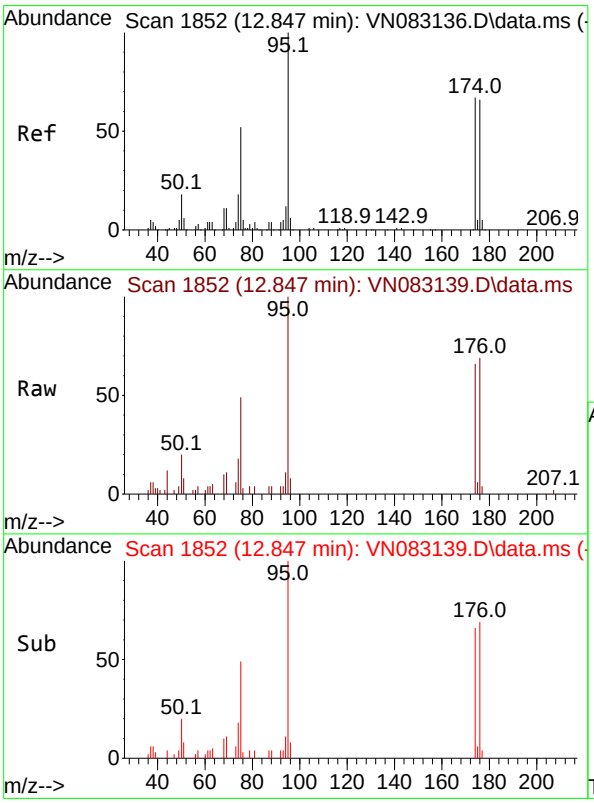
Ion	Ratio	Lower	Upper
107	100		
109	95.9	73.7	110.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

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

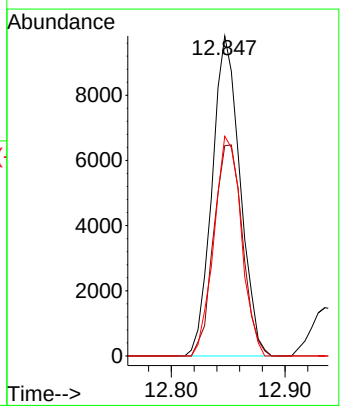


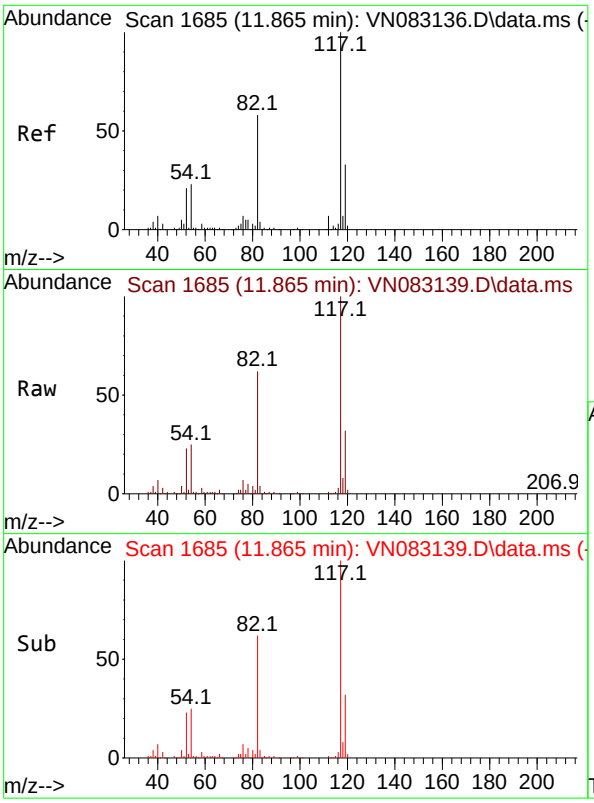


#62
4-Bromofluorobenzene
Concen: 5.317 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

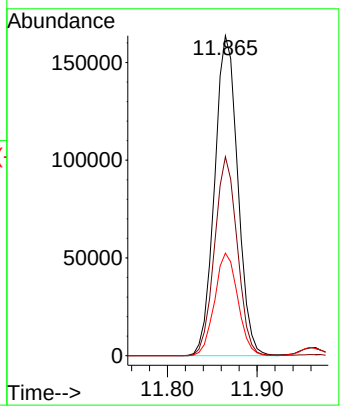




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:117 Resp: 29351

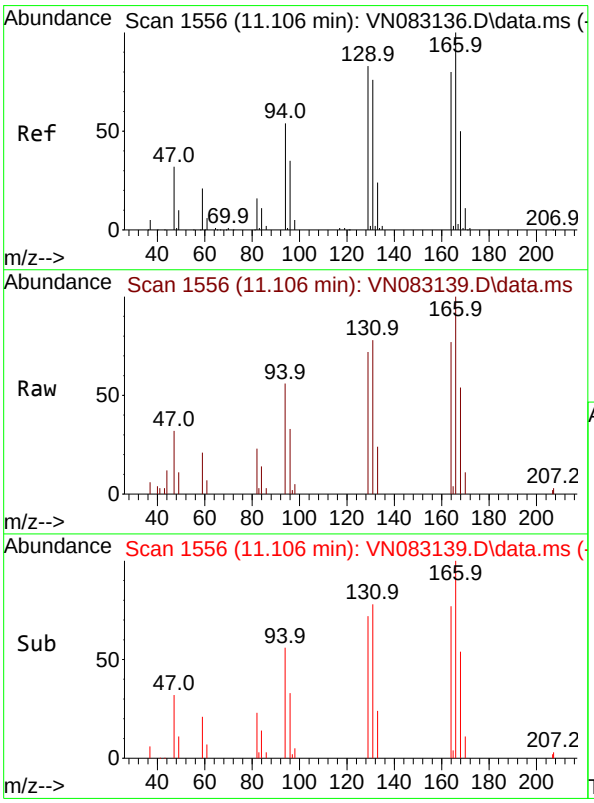
Ion	Ratio	Lower	Upper
117	100		
82	62.1	47.5	71.3
119	32.0	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

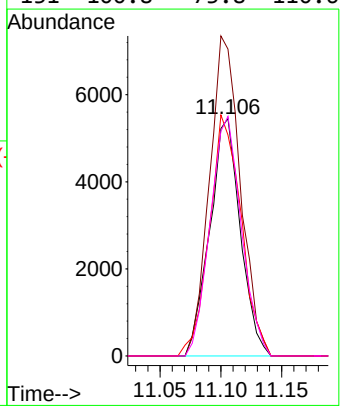
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

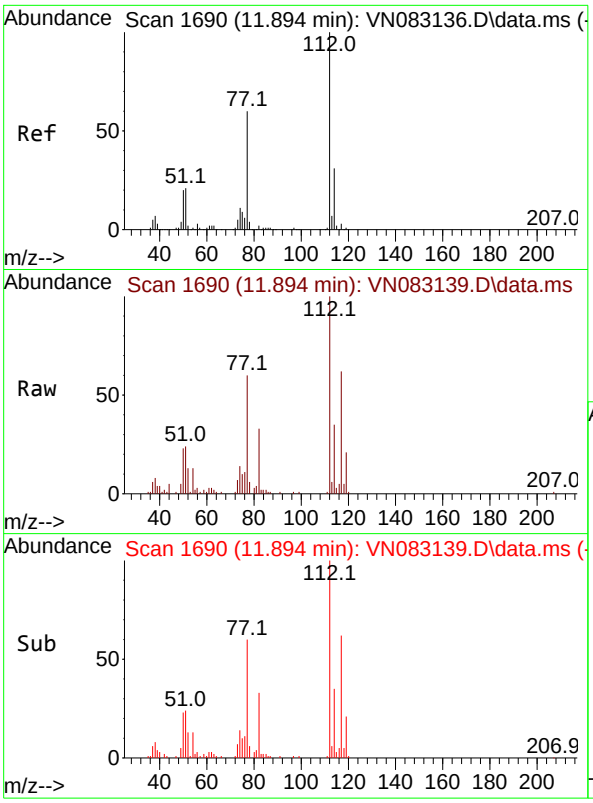


#64
Tetrachloroethene
Concen: 4.896 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

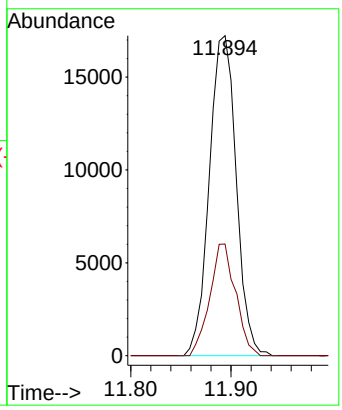




#65
Chlorobenzene
Concen: 4.951 ug/l
RT: 11.894 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:112 Resp: 3211

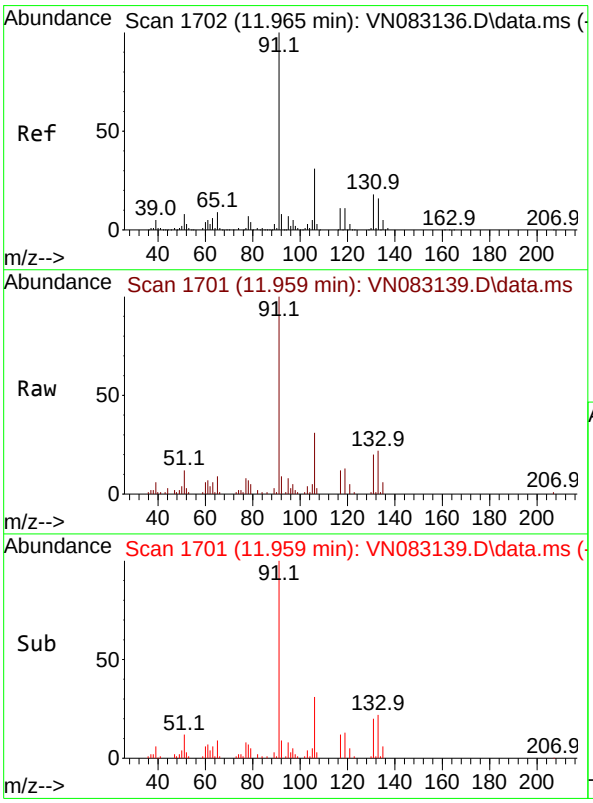
Ion	Ratio	Lower	Upper
112	100		
114	34.9	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

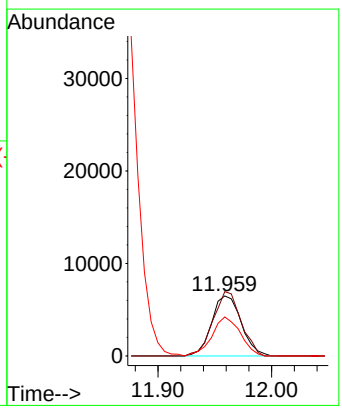
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

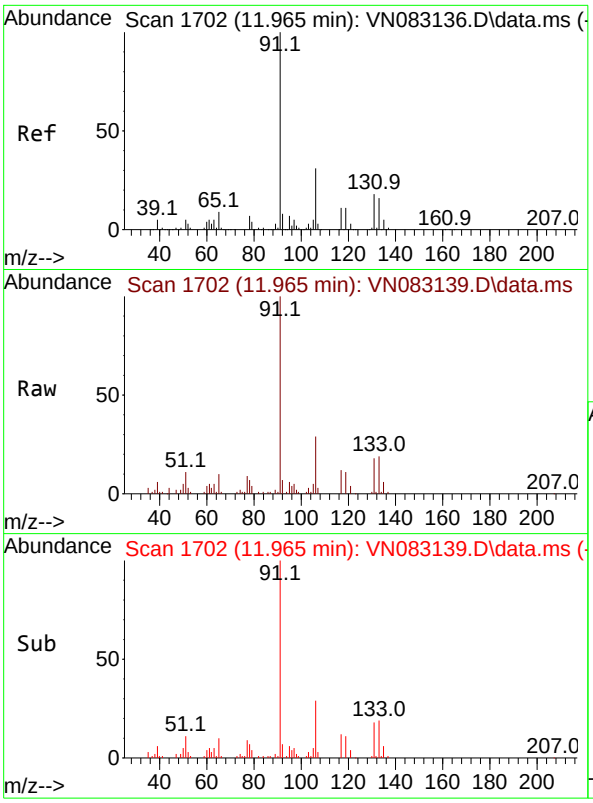


#66
1,1,1,2-Tetrachloroethane
Concen: 5.140 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

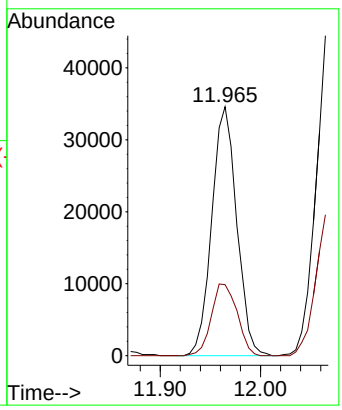




#67
Ethyl Benzene
Concen: 5.013 ug/l
RT: 11.965 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 91 Resp: 5964

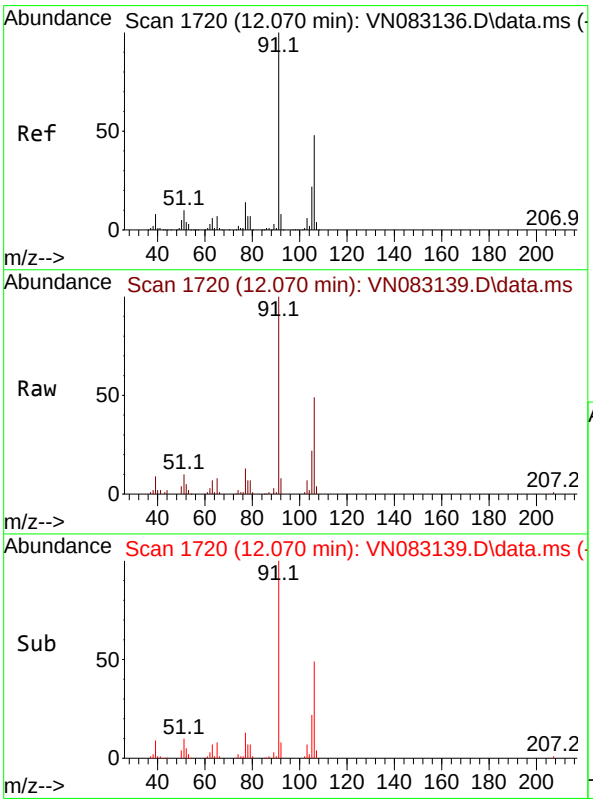
Ion	Ratio	Lower	Upper
91	100		
106	28.6	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

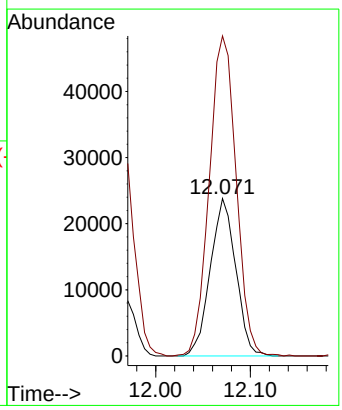
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

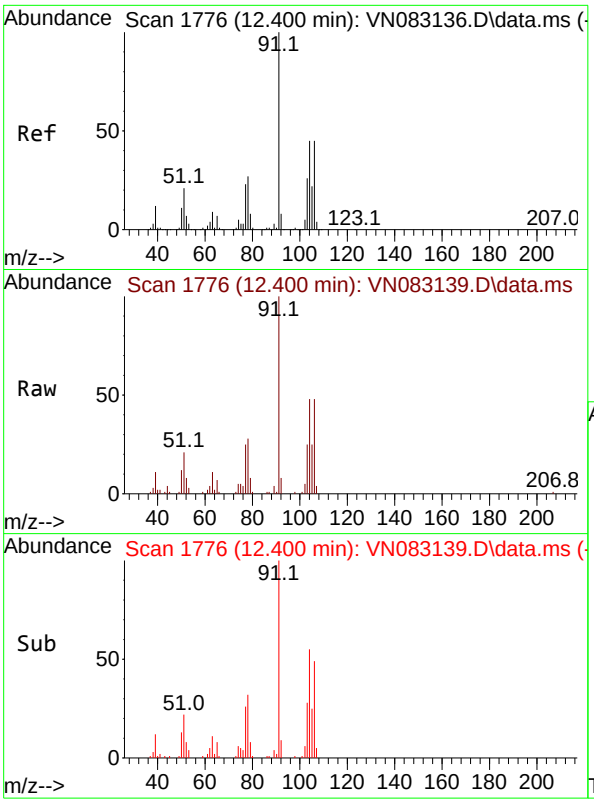


#68
m/p-Xylenes
Concen: 10.000 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

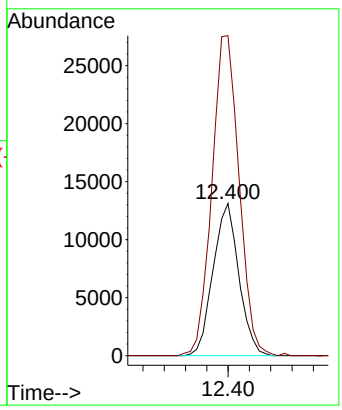
Tgt Ion:106 Resp: 2200

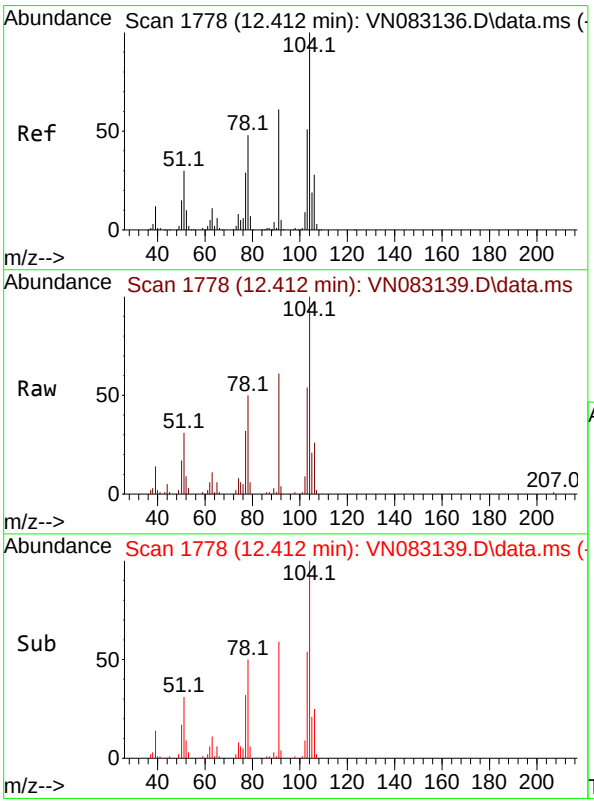
Ion	Ratio	Lower	Upper
106	100		
91	221.7	111.3	333.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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

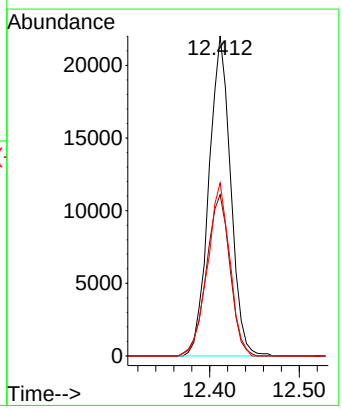


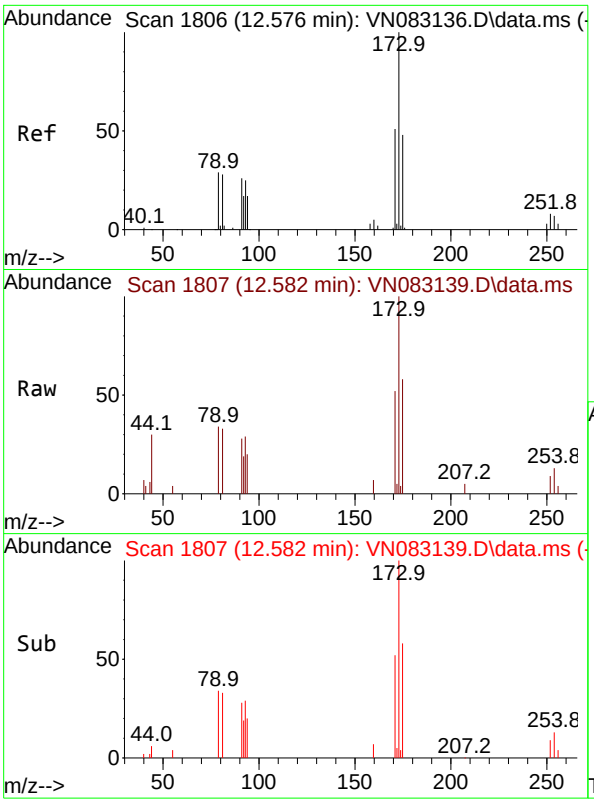


#70
Styrene
Concen: 5.014 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

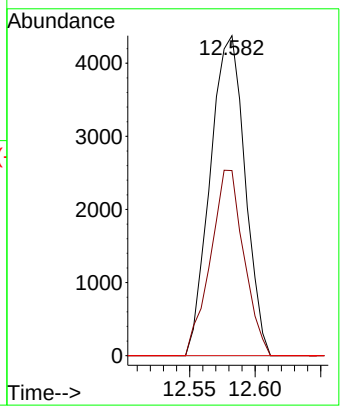




#71
Bromoform
Concen: 4.665 ug/l
RT: 12.582 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:173 Resp: 808

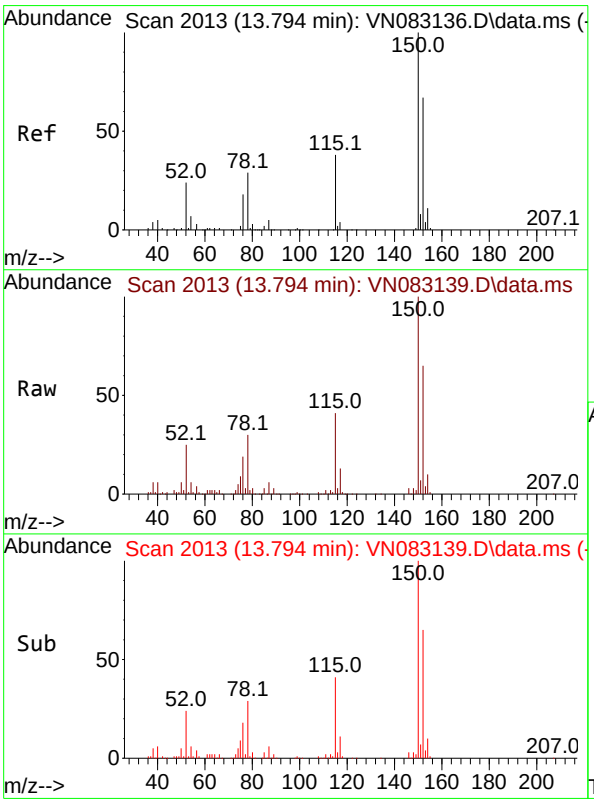
Ion	Ratio	Lower	Upper
173	100		
175	55.6	24.0	72.0
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

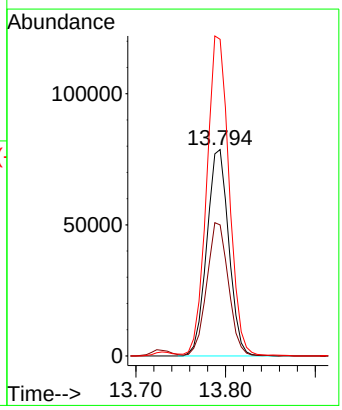
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

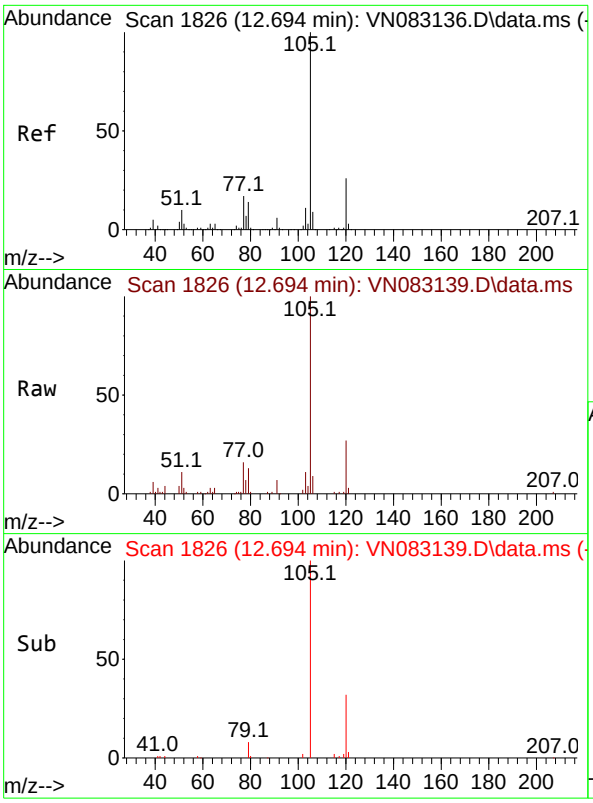


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

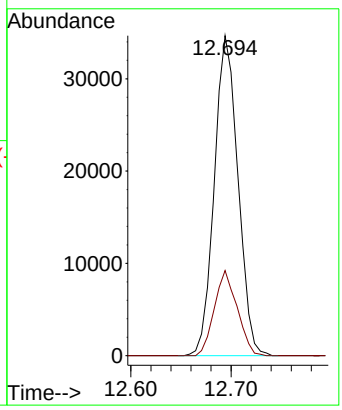
Tgt Ion:105 Resp: 5674

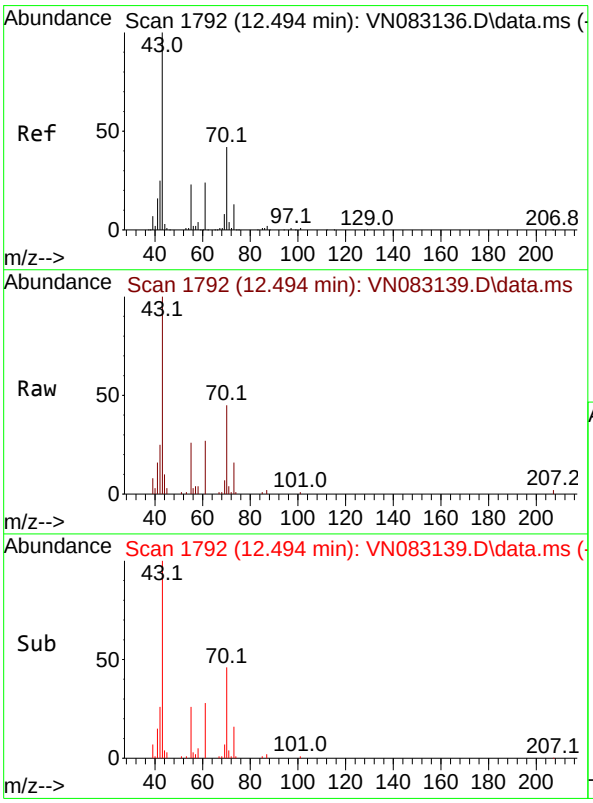
Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.9	38.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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

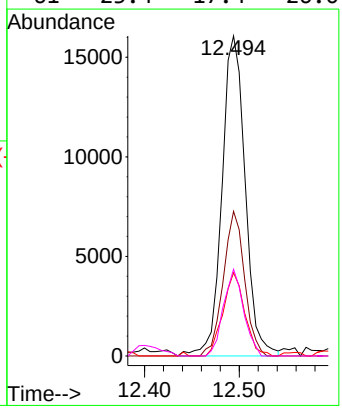


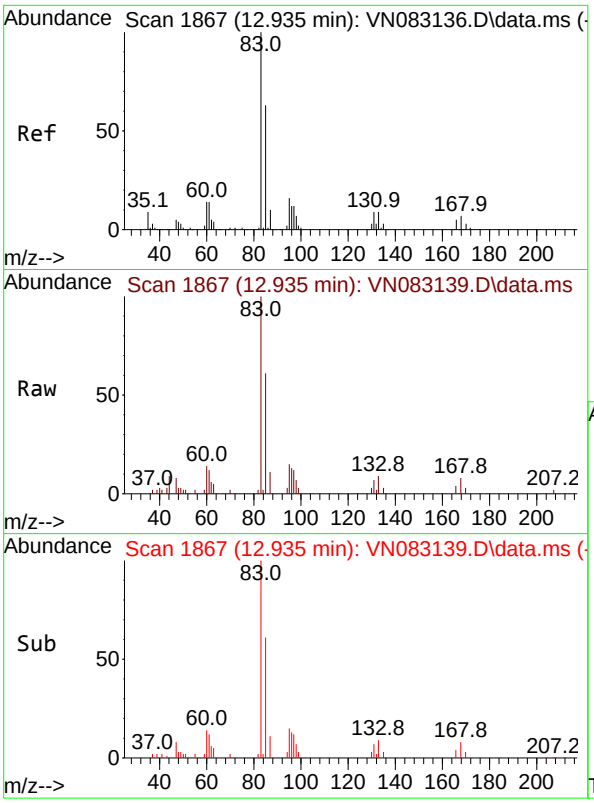


#74
N-amyl acetate
Concen: 5.014 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

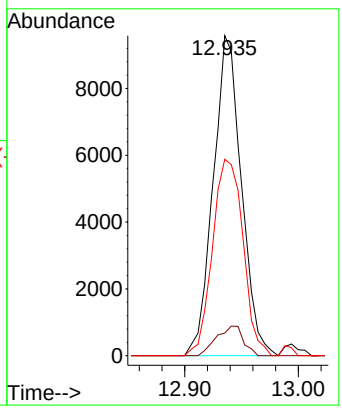




#75
1,1,2,2-Tetrachloroethane
Concen: 5.227 ug/l
RT: 12.935 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 83 Resp: 1651

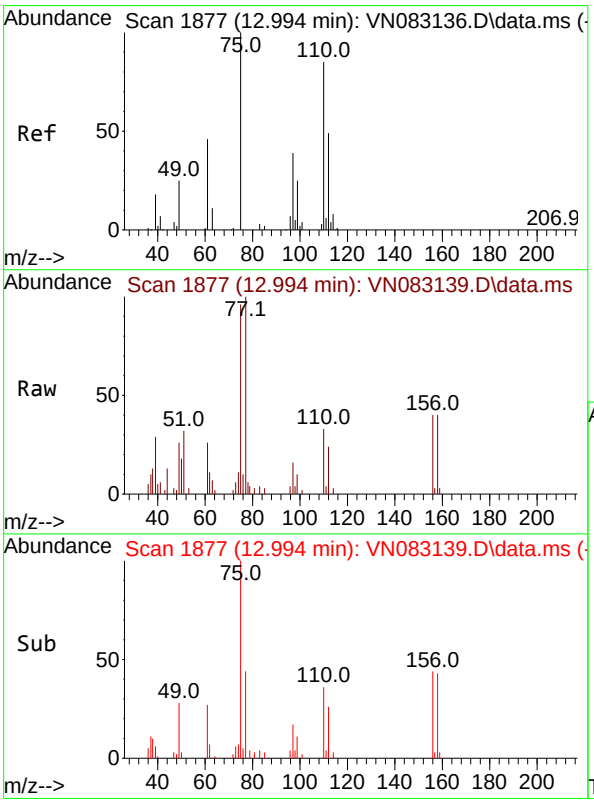
Ion	Ratio	Lower	Upper
83	100		
131	8.8	5.0	14.9
85	66.4	31.9	95.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

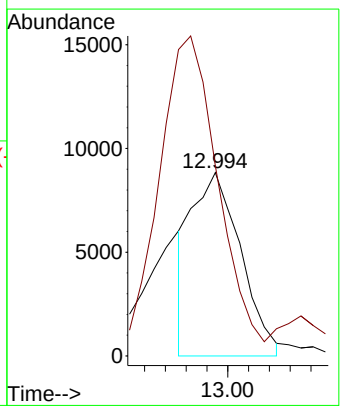
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

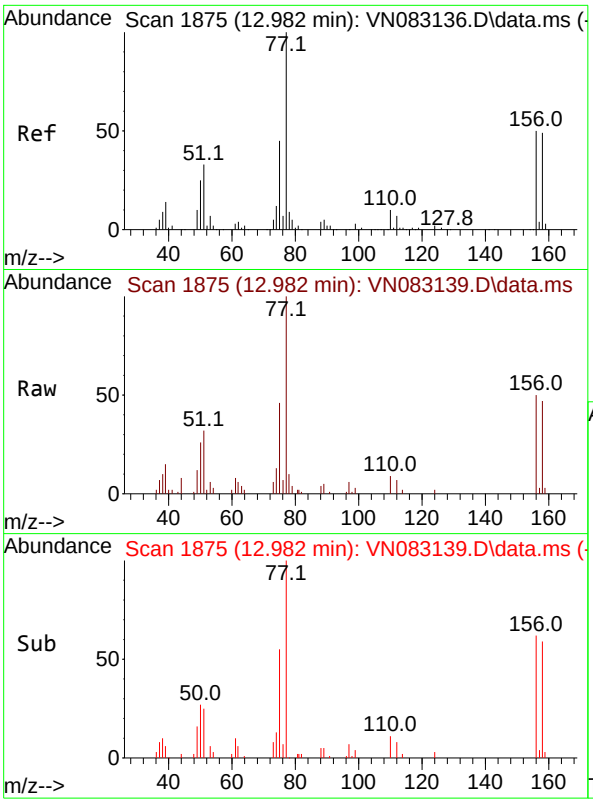


#76
1,2,3-Trichloropropane
Concen: 4.927 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 75 Resp: 14463

Ion	Ratio	Lower	Upper
75	100		
77	212.4	110.9	332.6

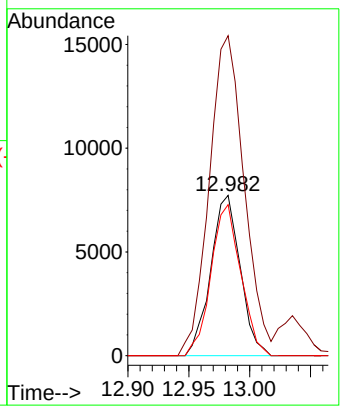




#77
Bromobenzene
Concen: 5.249 ug/l
RT: 12.982 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:156 Resp: 1302

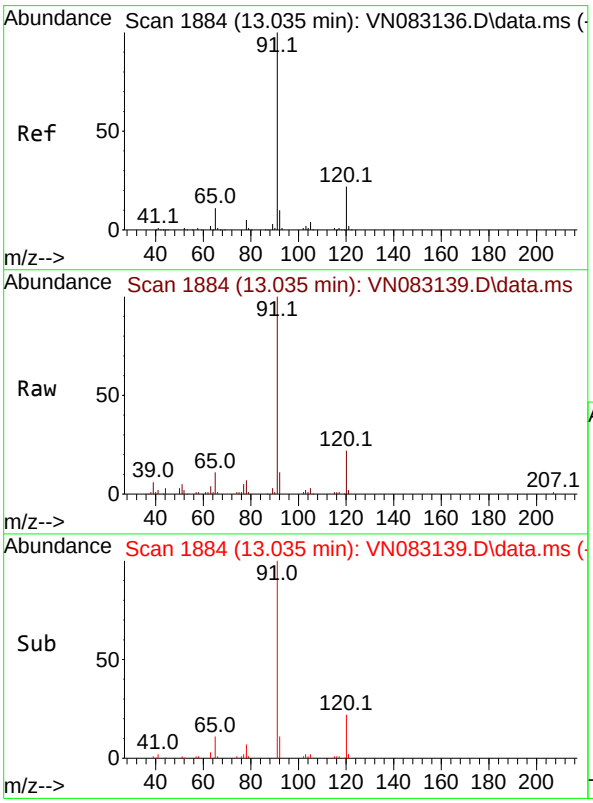
Ion	Ratio	Lower	Upper
156	100		
77	235.8	111.3	333.8
158	95.0	48.3	144.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

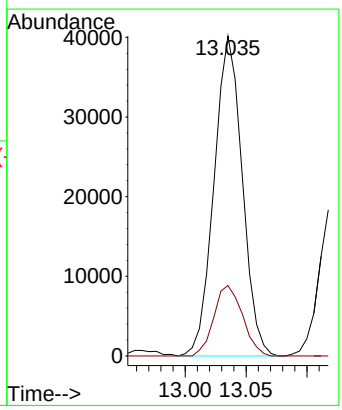
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

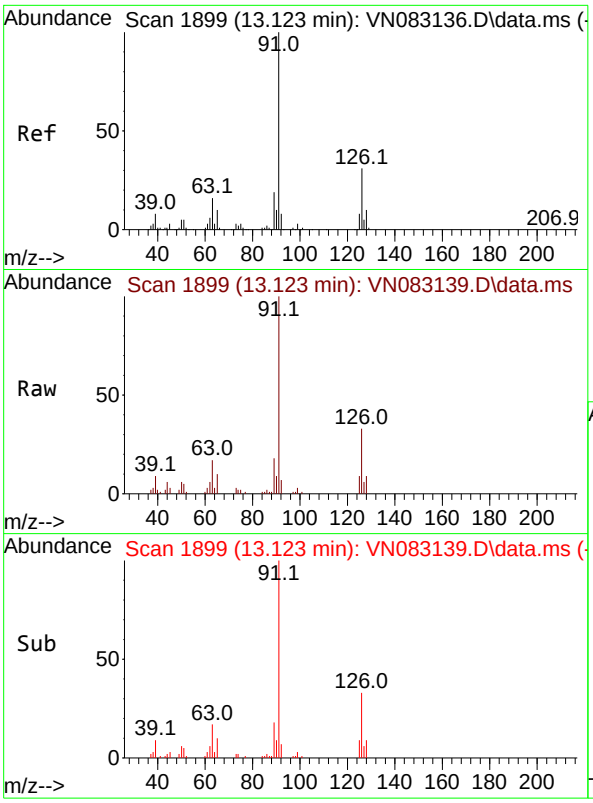


#78
n-propylbenzene
Concen: 5.035 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 91 Resp: 64751

Ion	Ratio	Lower	Upper
91	100		
120	22.4	10.9	32.9

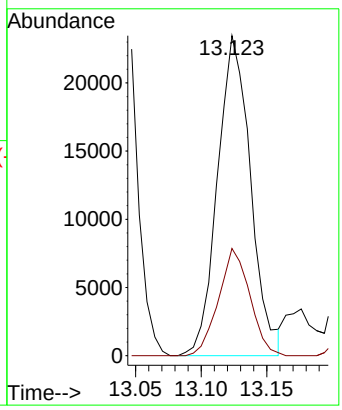




#79
2-Chlorotoluene
Concen: 5.050 ug/l
RT: 13.123 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 91 Resp: 4117

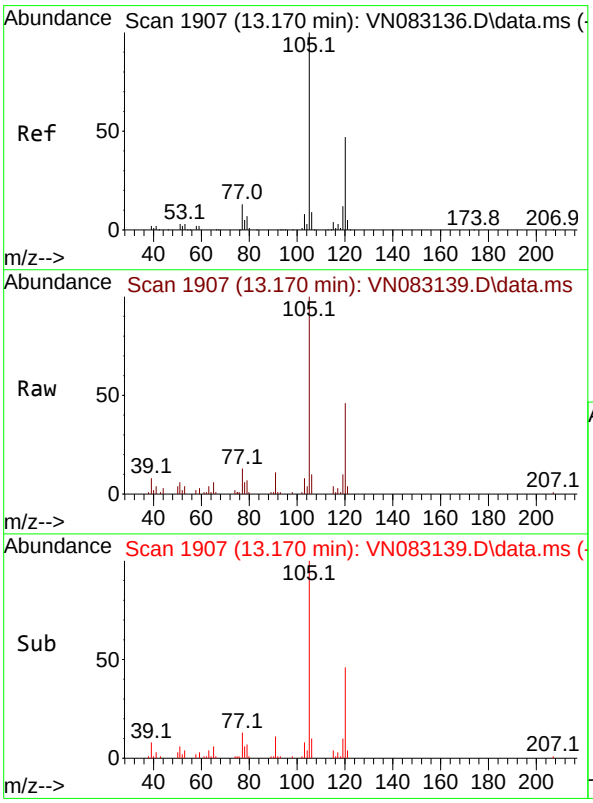
Ion	Ratio	Lower	Upper
91	100		
126	31.6	16.2	48.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

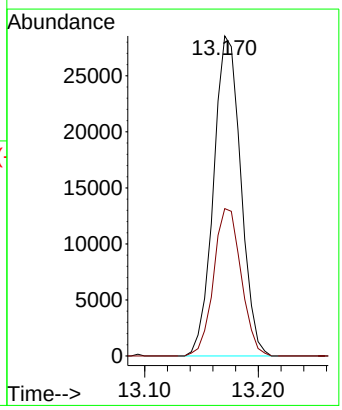
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

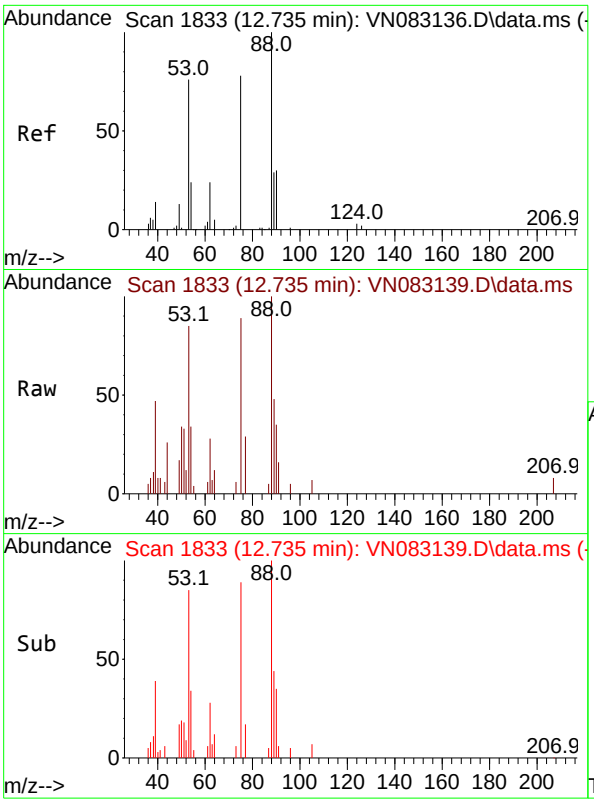


#80
1,3,5-Trimethylbenzene
Concen: 5.088 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

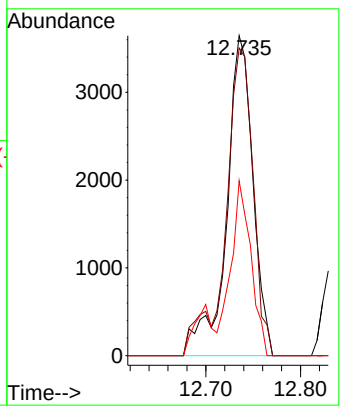
Tgt Ion: 75 Resp: 707

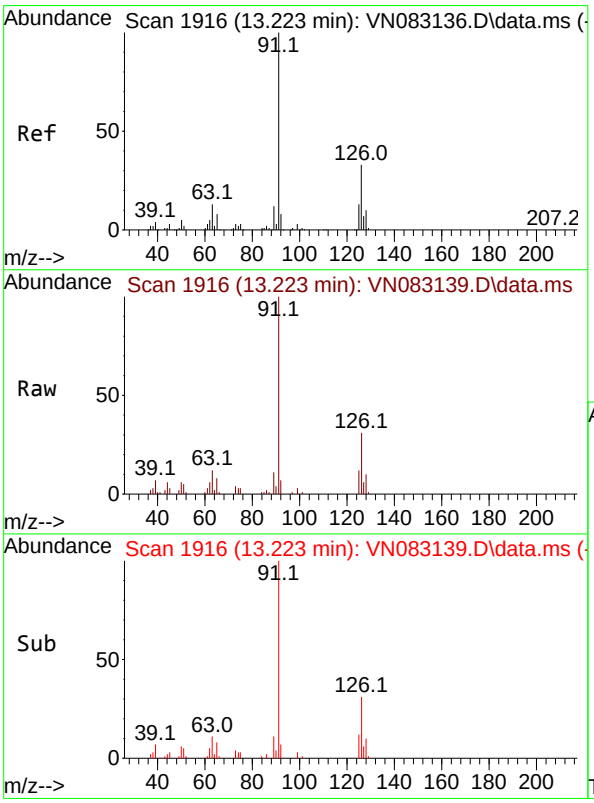
Ion	Ratio	Lower	Upper
75	100		
53	100.6	88.4	132.6
89	41.6	36.3	54.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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

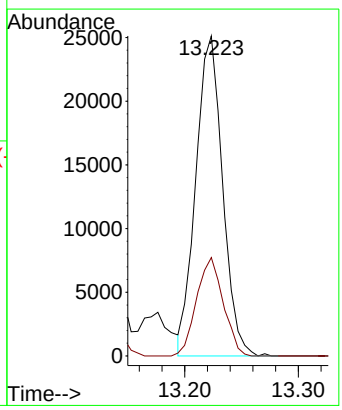


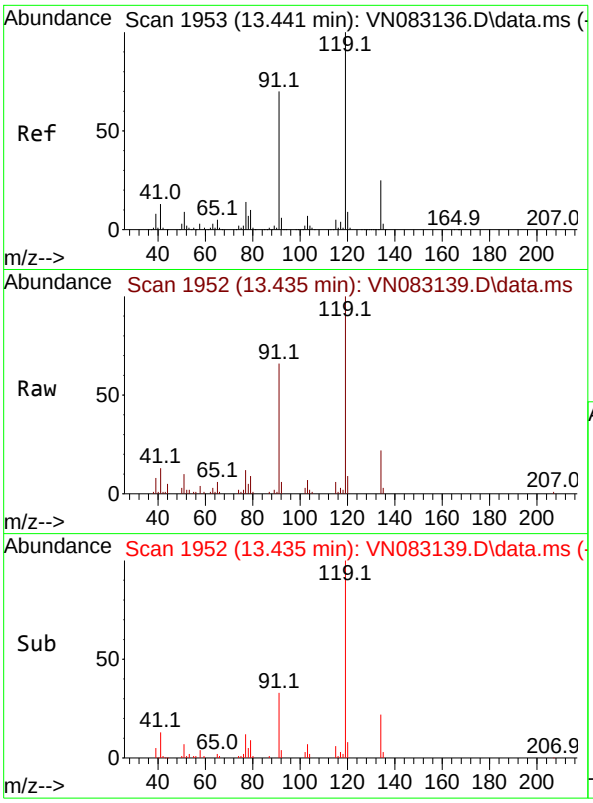


#82
4-Chlorotoluene
Concen: 5.030 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 91 Resp: 41137

Ion	Ratio	Lower	Upper
91	100		
126	30.6	16.2	48.6

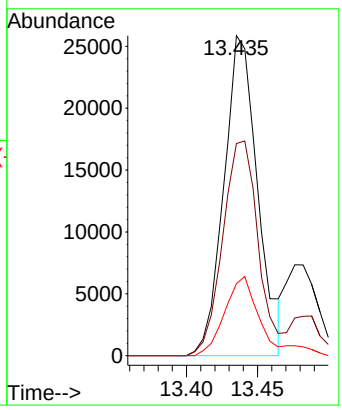




#83
tert-Butylbenzene
Concen: 5.159 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:119 Resp: 4272

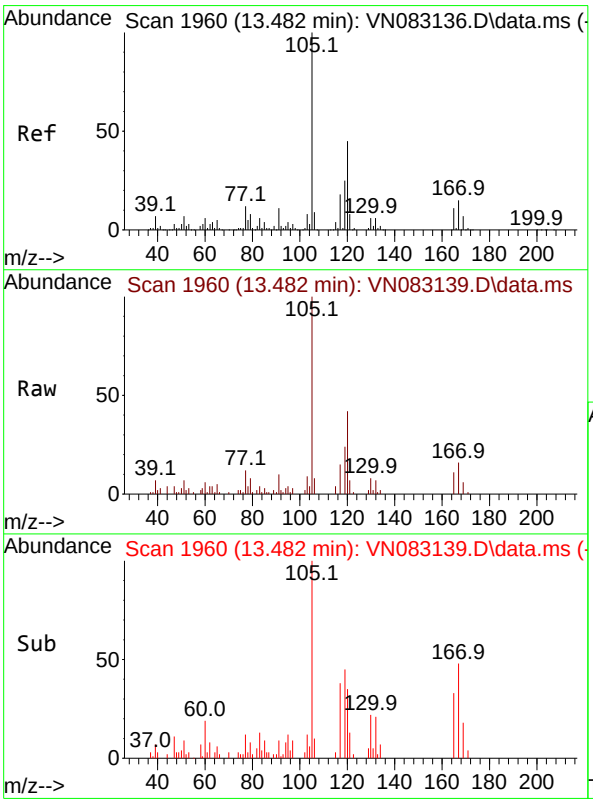
Ion	Ratio	Lower	Upper
119	100		
91	70.0	35.0	105.1
134	26.6	13.3	39.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

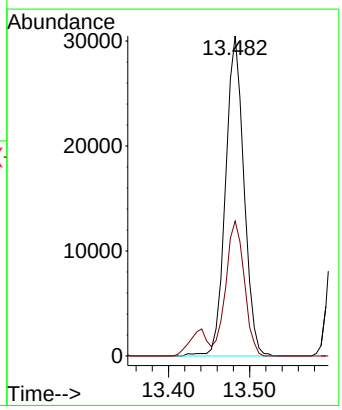
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

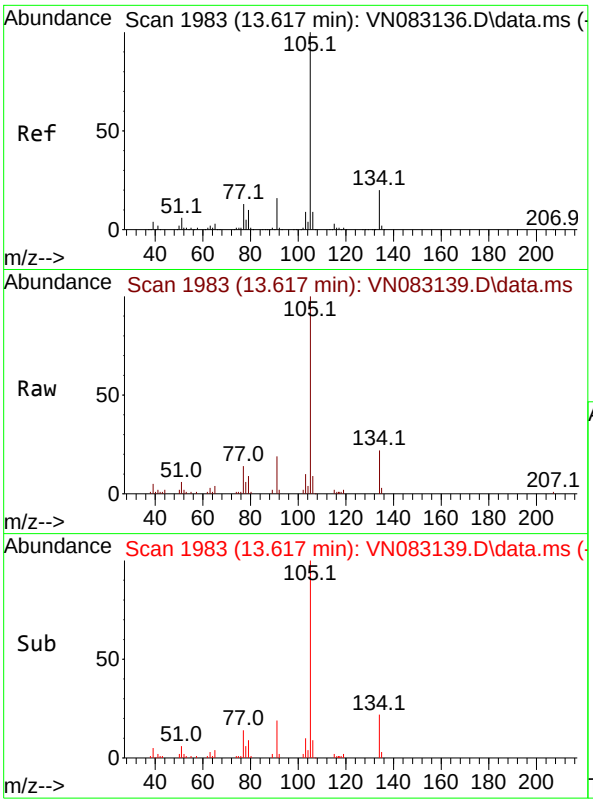


#84
1,2,4-Trimethylbenzene
Concen: 5.090 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

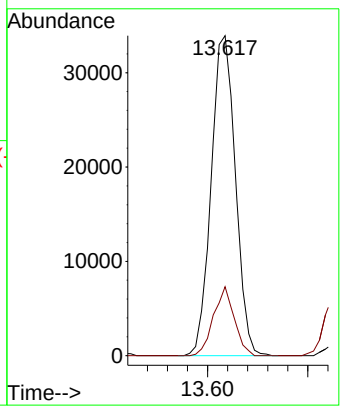
Tgt Ion:105 Resp: 5694

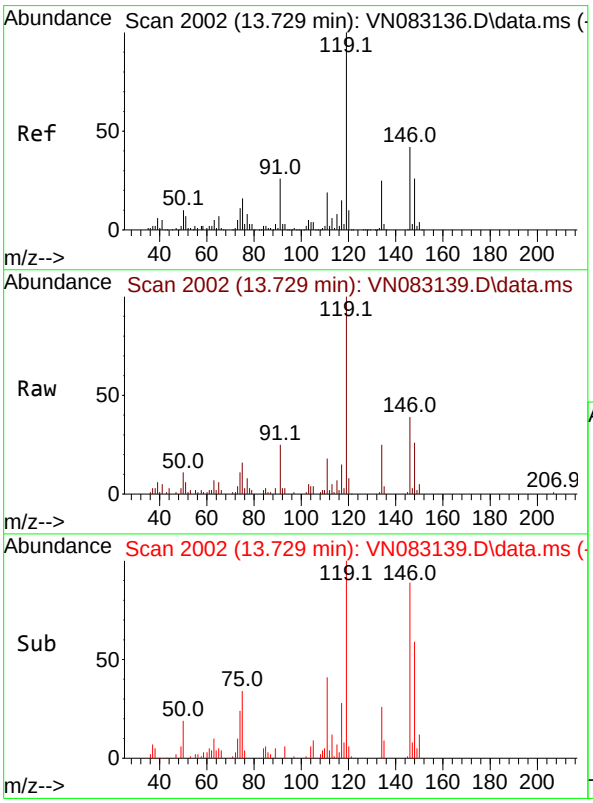
Ion	Ratio	Lower	Upper
105	100		
134	18.5	9.8	29.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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

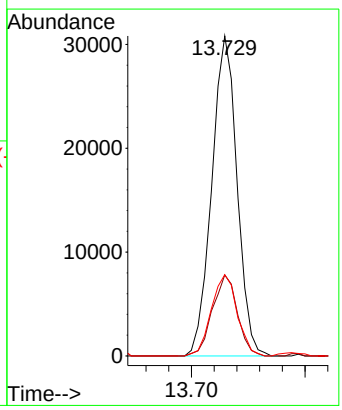


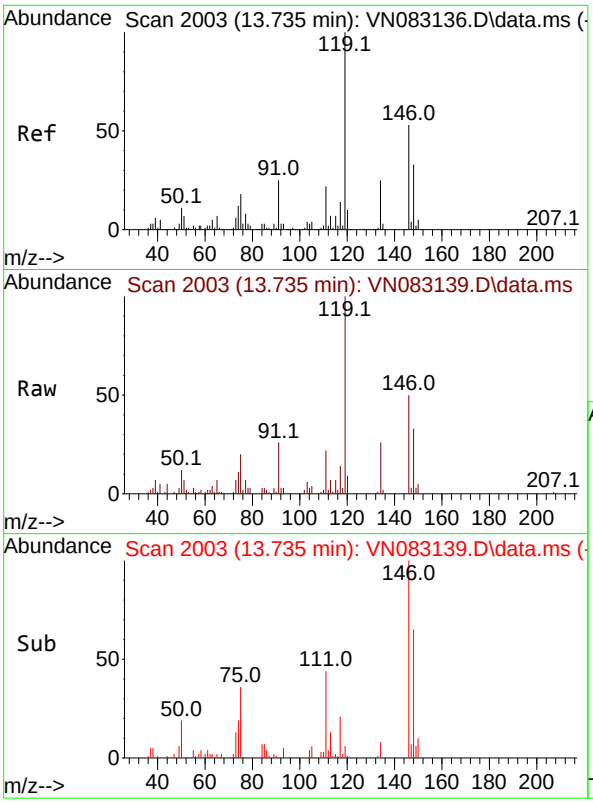


#86
p-Isopropyltoluene
Concen: 5.108 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

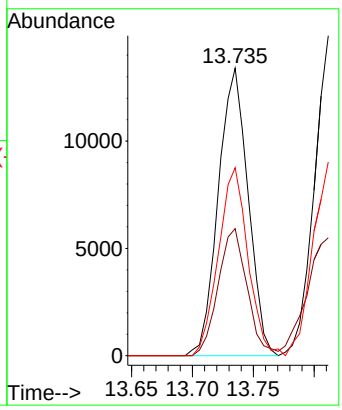




#87
1,3-Dichlorobenzene
Concen: 4.887 ug/l
RT: 13.735 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:146 Resp: 2281

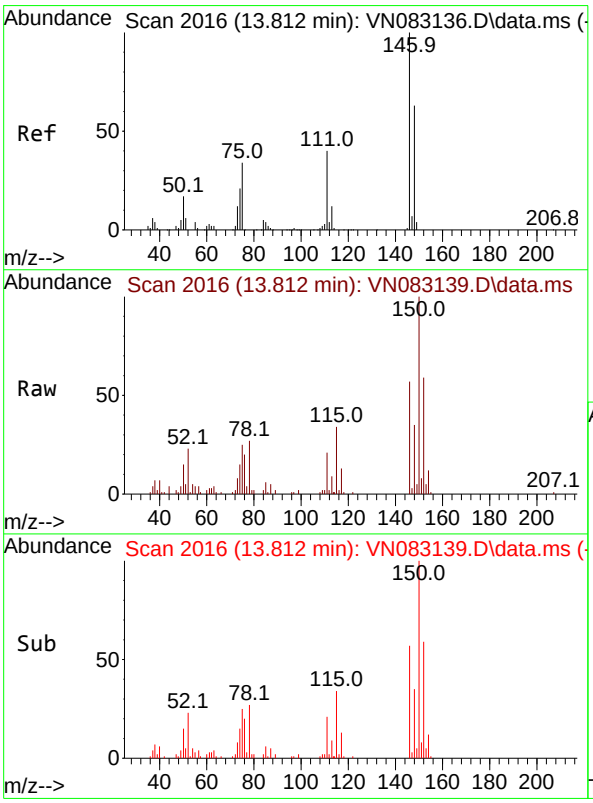
Ion	Ratio	Lower	Upper
146	100		
111	43.0	20.6	61.9
148	64.7	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

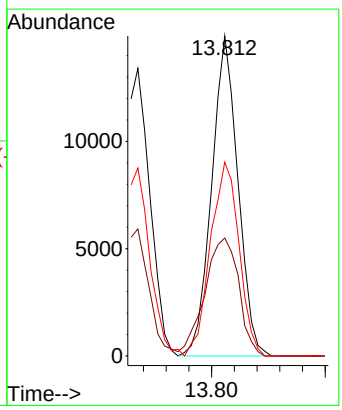
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

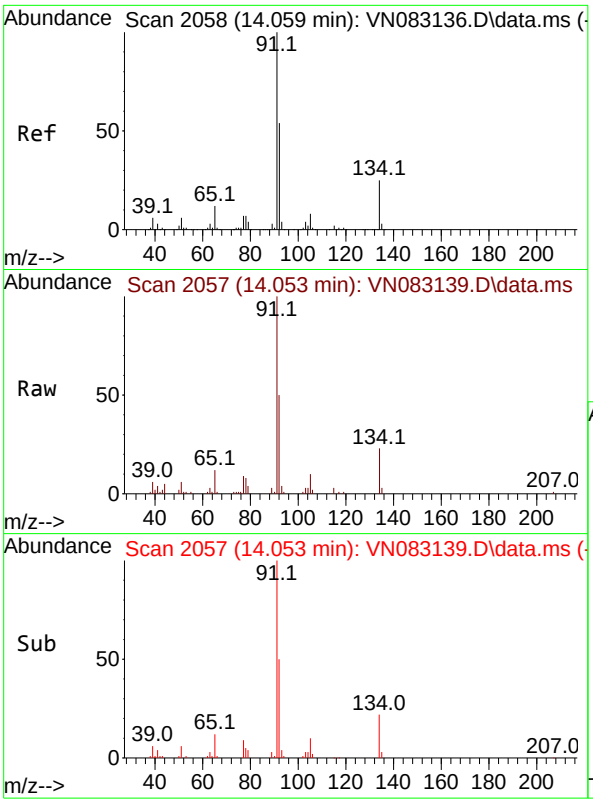


#88
1,4-Dichlorobenzene
Concen: 5.093 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

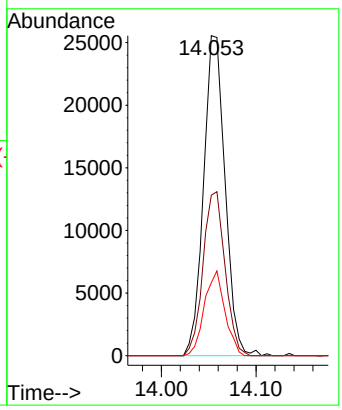
Tgt Ion: 91 Resp: 4028

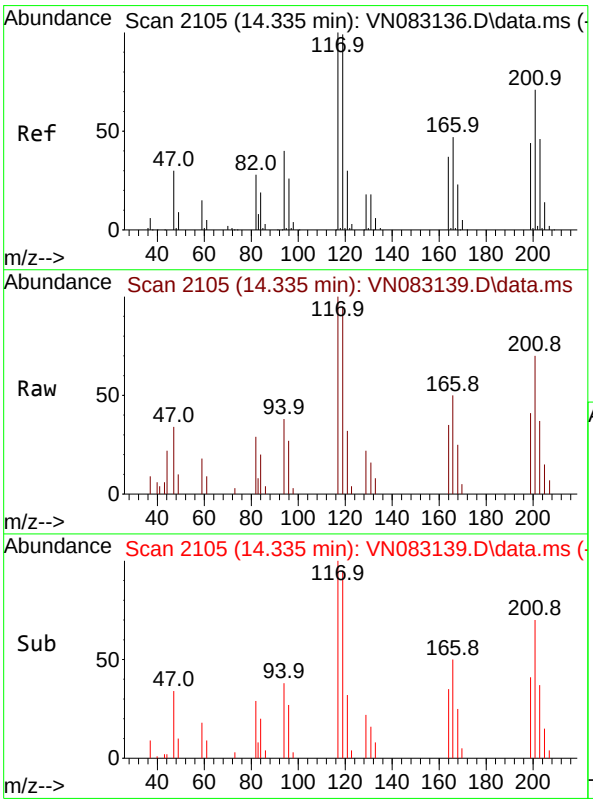
Ion	Ratio	Lower	Upper
91	100		
92	52.3	26.1	78.3
134	25.3	12.1	36.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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

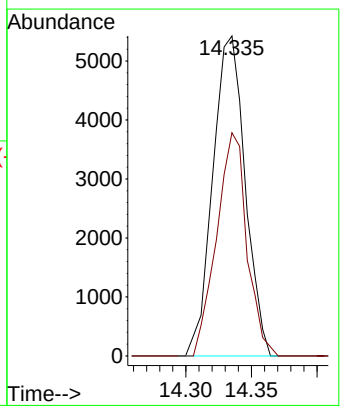


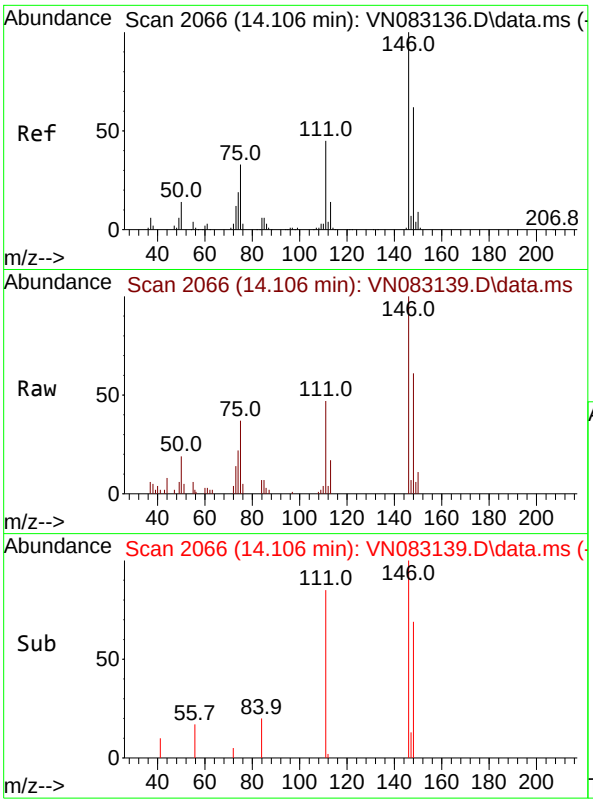


#90
Hexachloroethane
Concen: 5.158 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:117 Resp: 9298

Ion	Ratio	Lower	Upper
117	100		
201	65.4	35.8	107.3

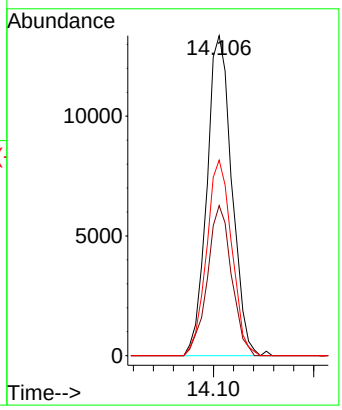




#91
1,2-Dichlorobenzene
Concen: 5.117 ug/l
RT: 14.106 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:146 Resp: 2311

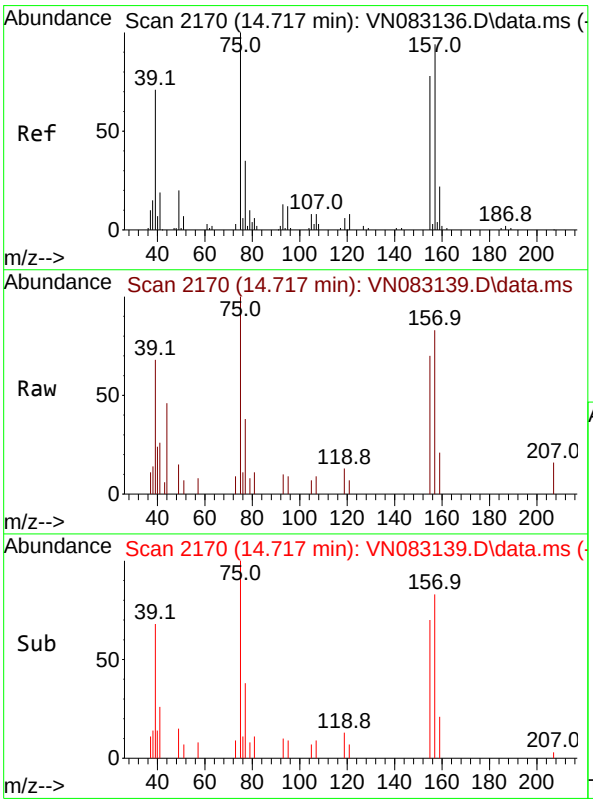
Ion	Ratio	Lower	Upper
146	100		
111	45.5	21.4	64.2
148	61.5	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

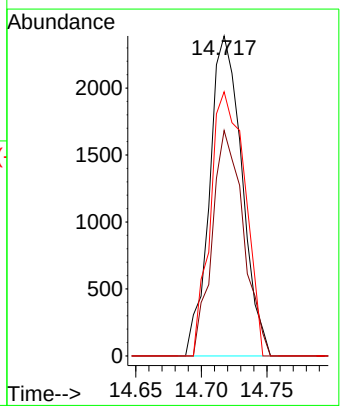
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

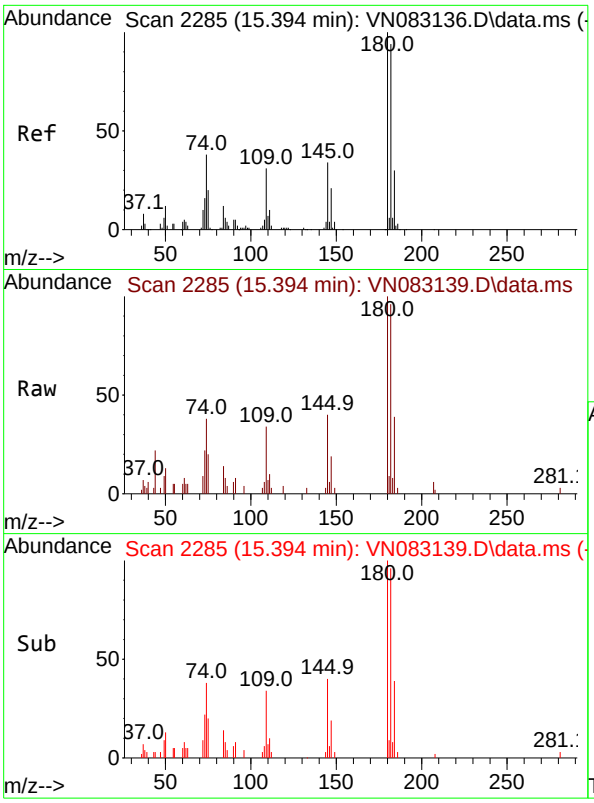


#92
1,2-Dibromo-3-Chloropropane
Concen: 5.345 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

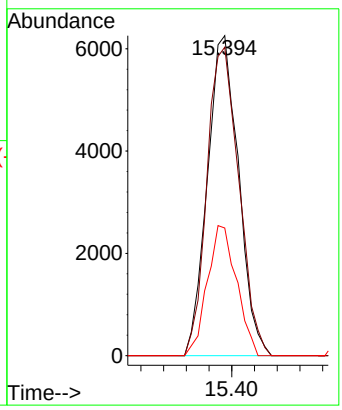




#93
1,2,4-Trichlorobenzene
Concen: 4.710 ug/l
RT: 15.394 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:180 Resp: 1192

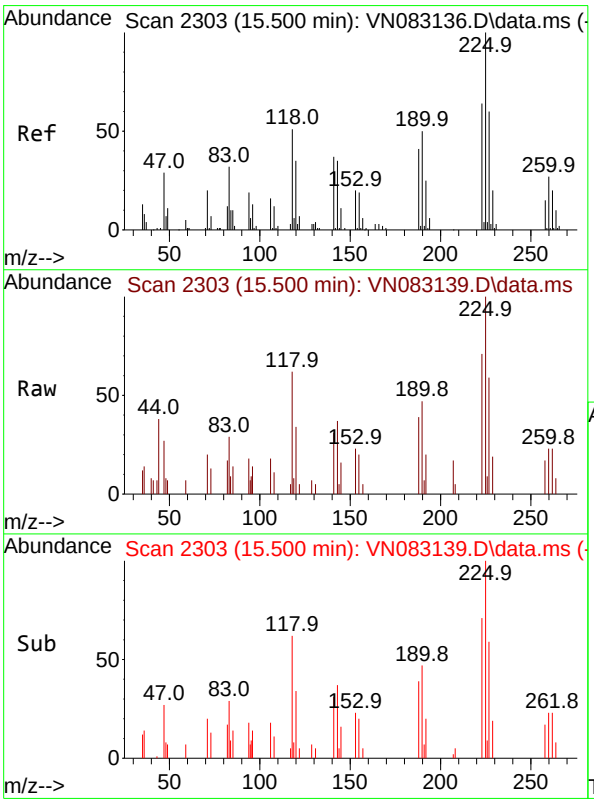
Ion	Ratio	Lower	Upper
180	100		
182	98.9	47.3	141.8
145	38.1	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

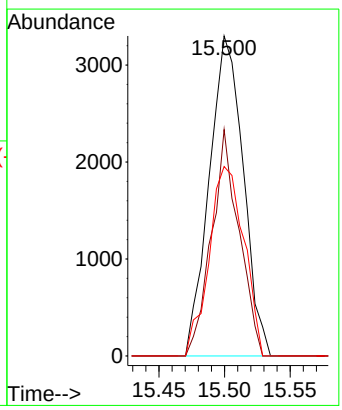
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

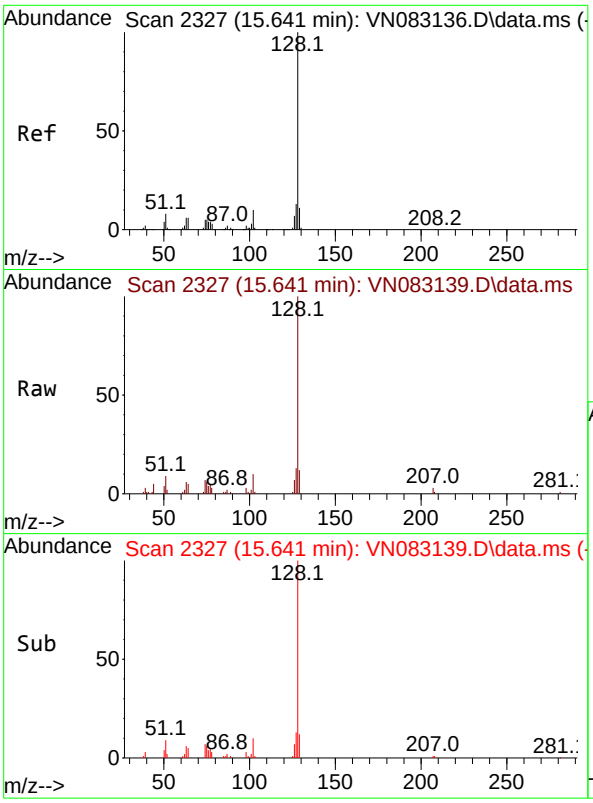


#94
Hexachlorobutadiene
Concen: 5.282 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

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

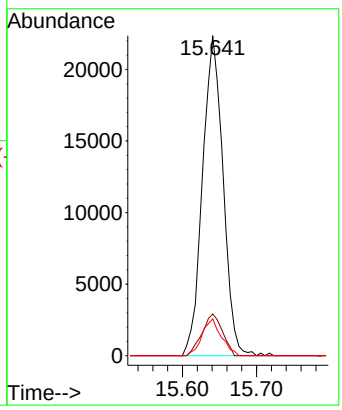




#95
Naphthalene
Concen: 4.811 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:128 Resp: 4313

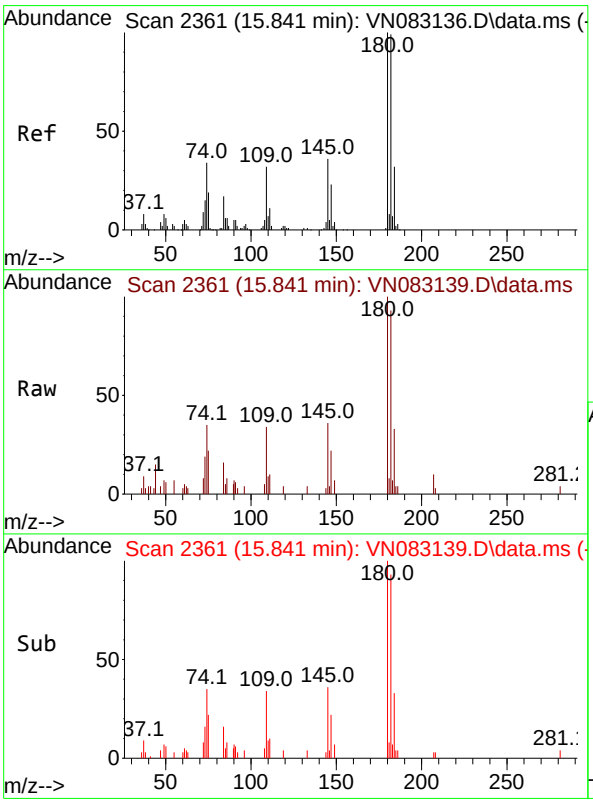
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.6	16.0
129	10.8	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

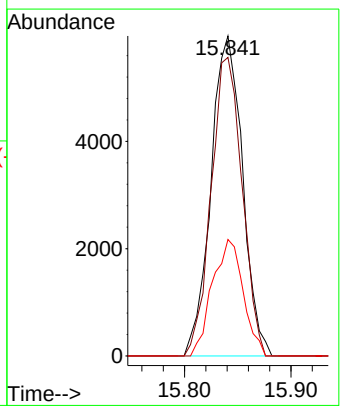
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#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



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

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

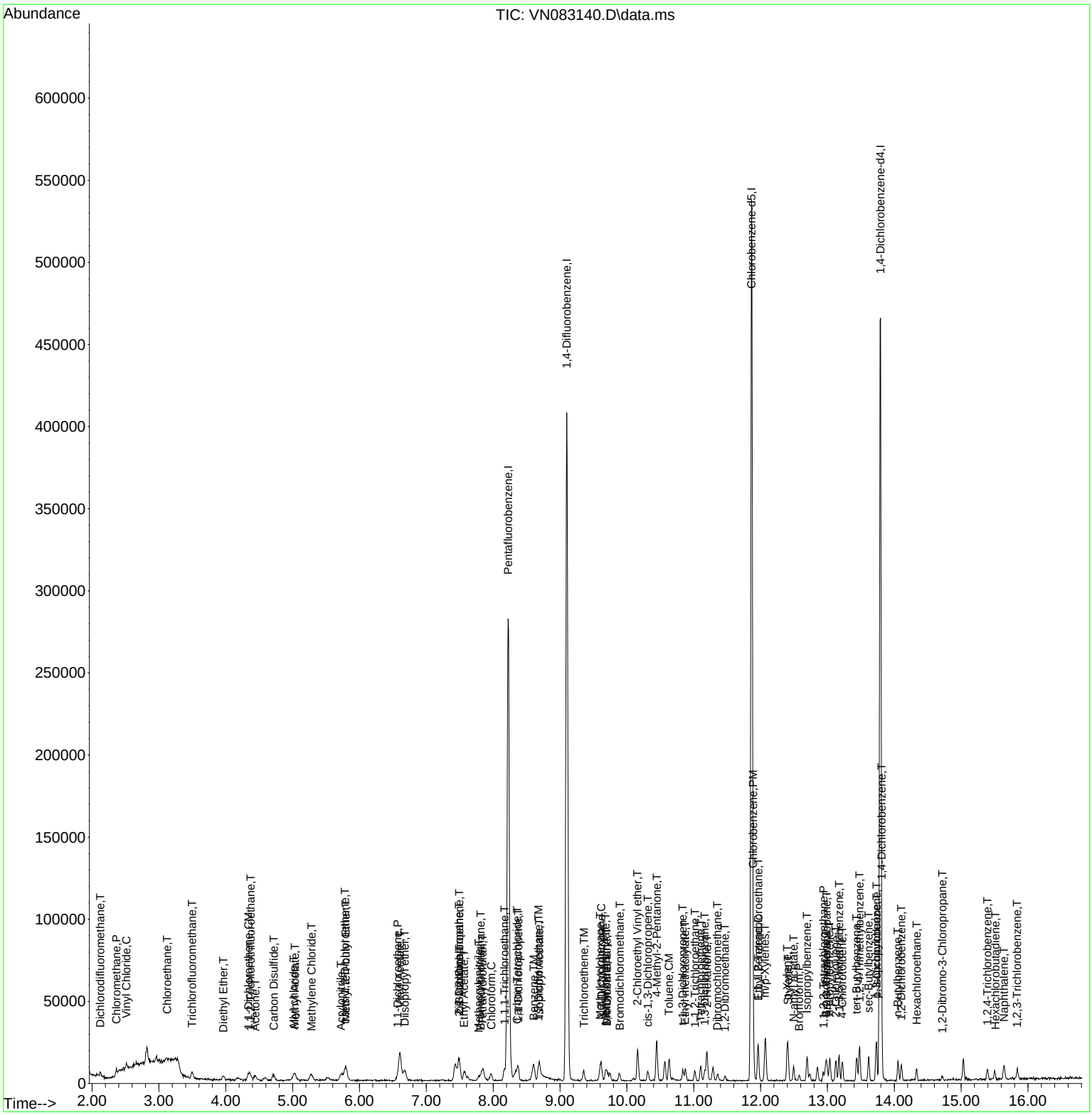
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083140.D
Acq On : 07 Aug 2024 12:34
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

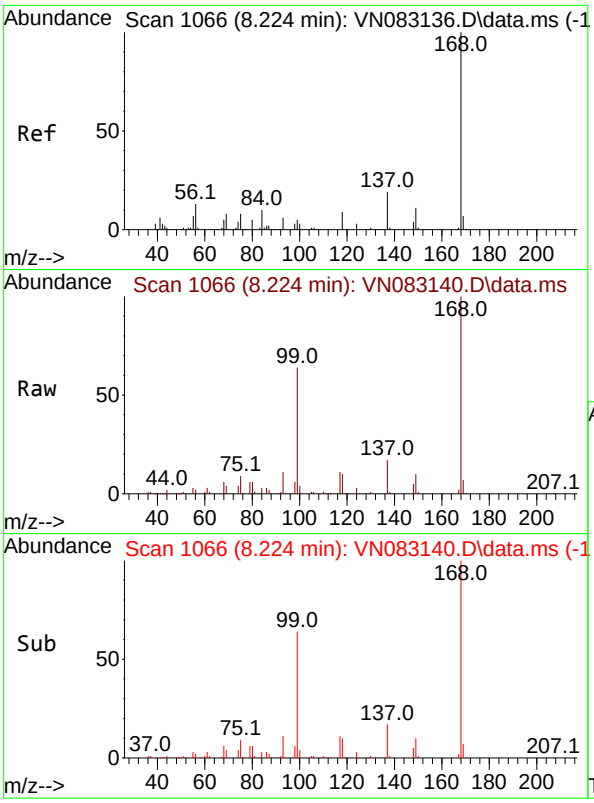
Quant Time: Aug 08 06:19:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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

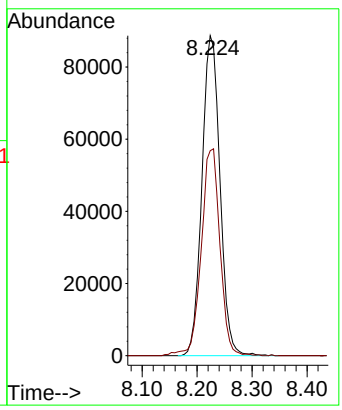




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:168 Resp: 20229

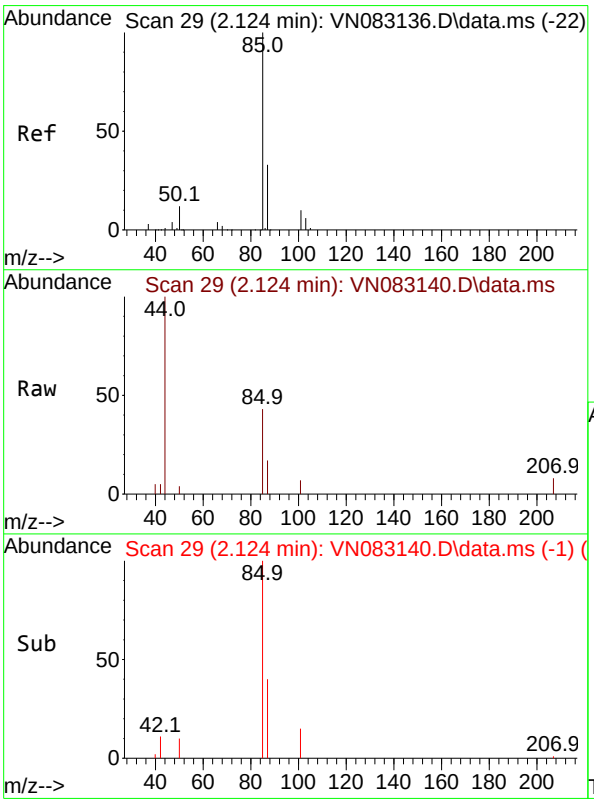
Ion	Ratio	Lower	Upper
168	100		
99	64.1	48.2	72.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

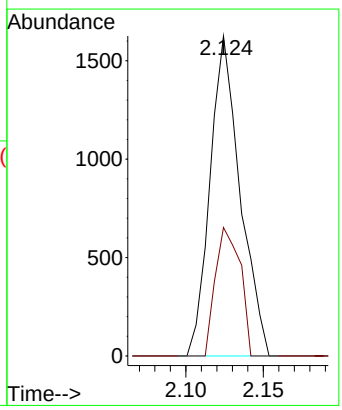
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

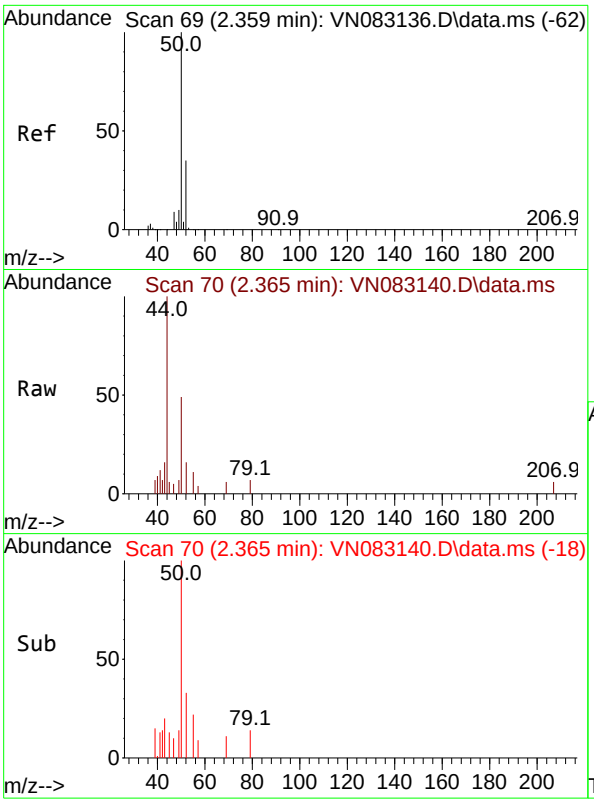


#2
Dichlorodifluoromethane
Concen: 0.956 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 85 Resp: 2193

Ion	Ratio	Lower	Upper
85	100		
87	40.2	15.7	47.0

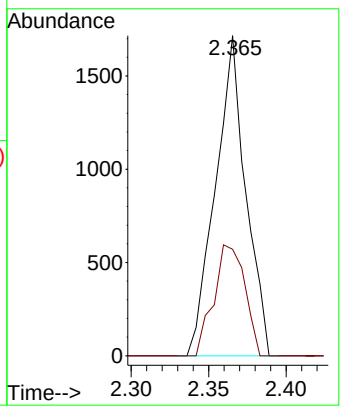




#3
Chloromethane
Concen: 0.993 ug/l
RT: 2.365 min Scan# 7
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 50 Resp: 233

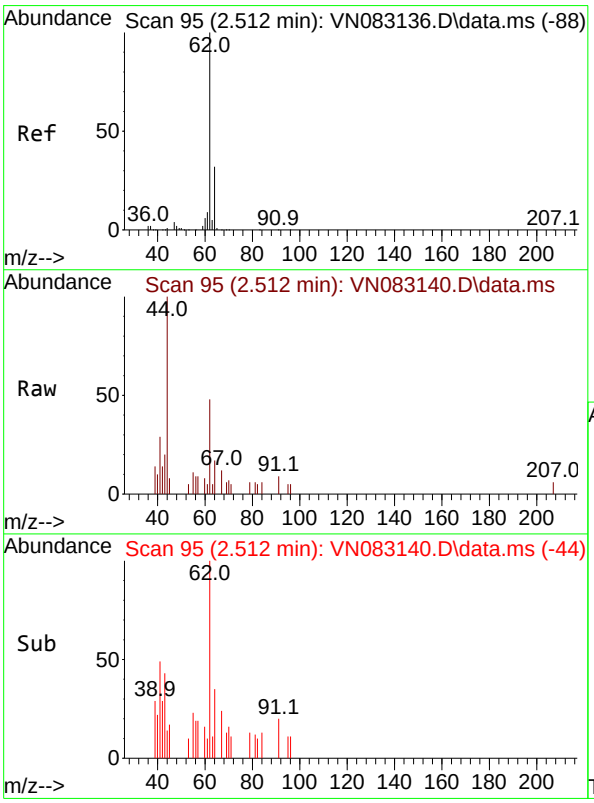
Ion	Ratio	Lower	Upper
50	100		
52	33.3	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

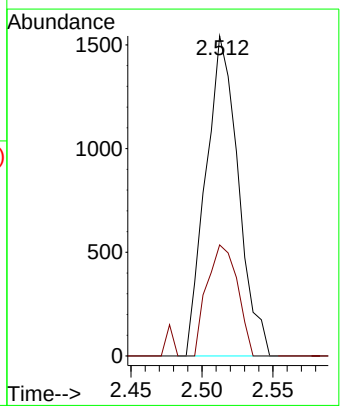
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

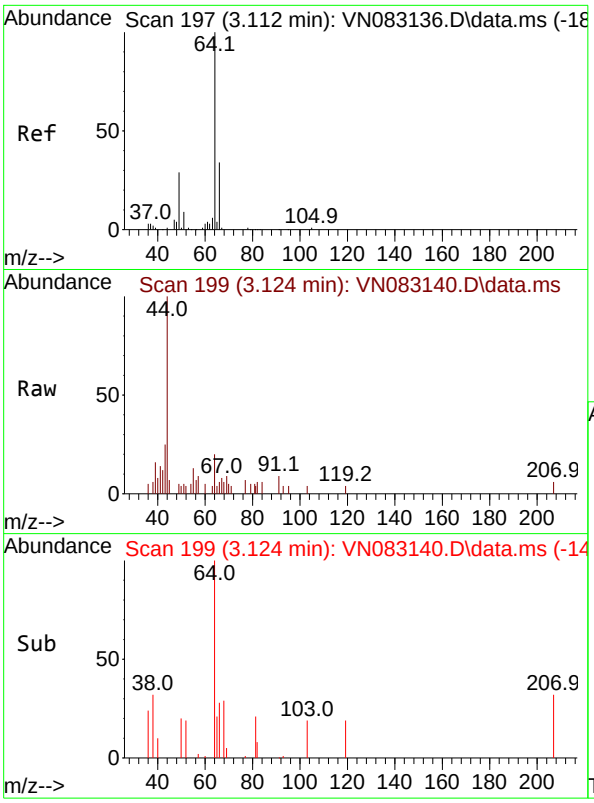


#4
Vinyl Chloride
Concen: 1.025 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 62 Resp: 2457

Ion	Ratio	Lower	Upper
62	100		
64	34.7	25.0	37.6

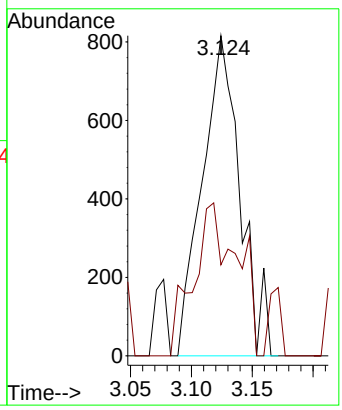




#6
Chloroethane
Concen: 1.176 ug/l
RT: 3.124 min Scan# 1
Delta R.T. 0.012 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 64 Resp: 176

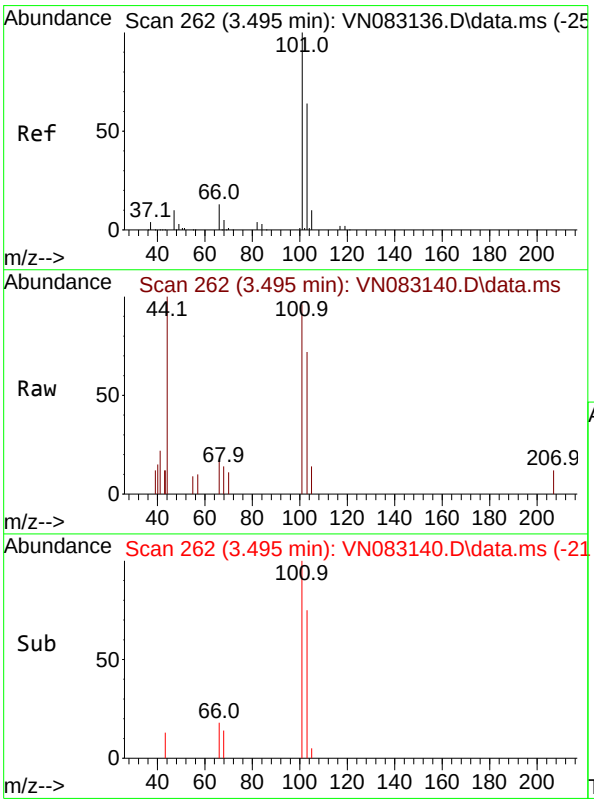
Ion	Ratio	Lower	Upper
64	100		
66	7.1	26.6	40.0#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

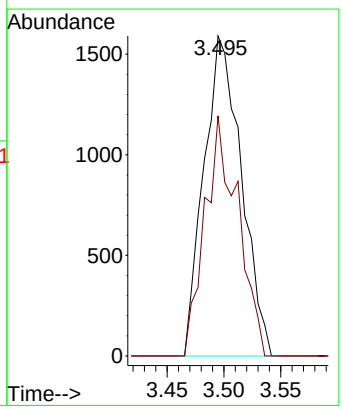
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

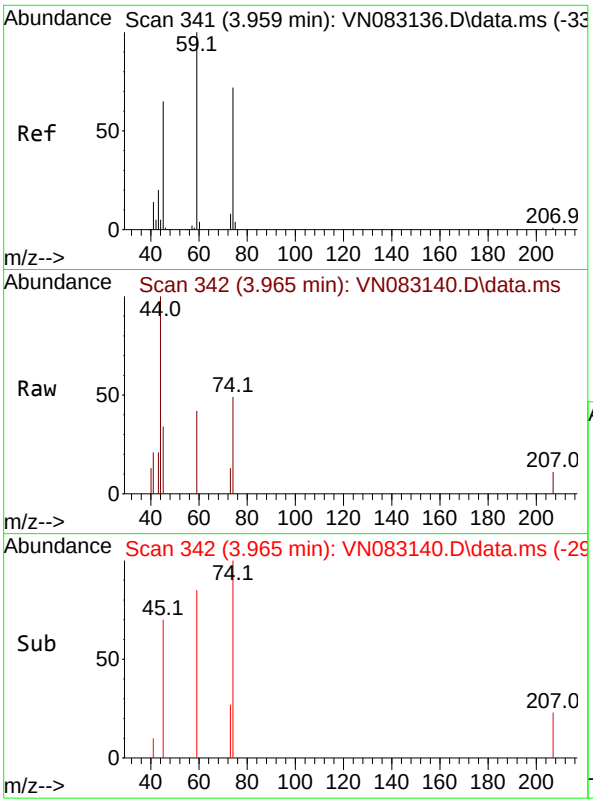


#7
Trichlorofluoromethane
Concen: 0.921 ug/l
RT: 3.495 min Scan# 262
Delta R.T. -0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:101 Resp: 3645

Ion	Ratio	Lower	Upper
101	100		
103	75.0	52.7	79.1

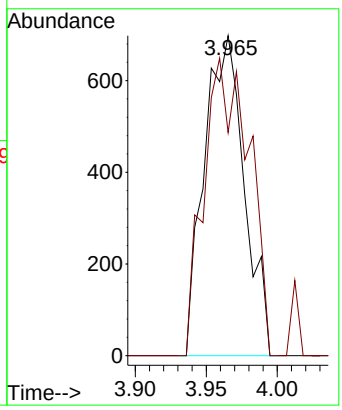




#8
Diethyl Ether
Concen: 0.929 ug/l
RT: 3.965 min Scan# 34
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 74 Resp: 136

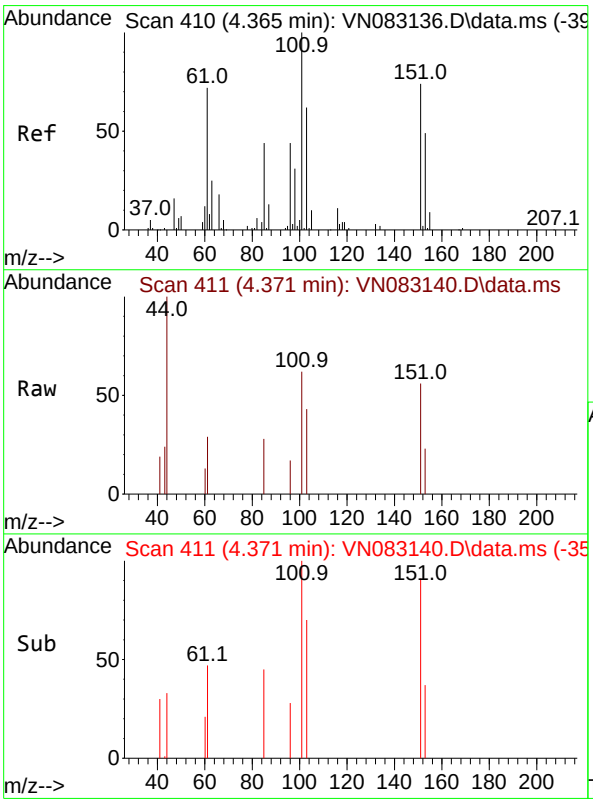
Ion	Ratio	Lower	Upper
74	100		
45	105.1	55.5	166.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

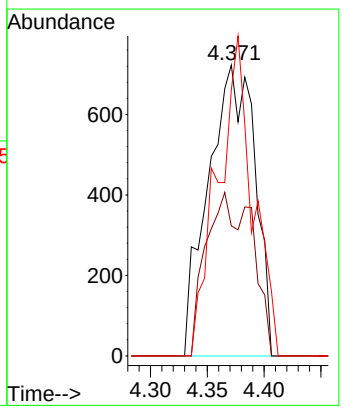
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

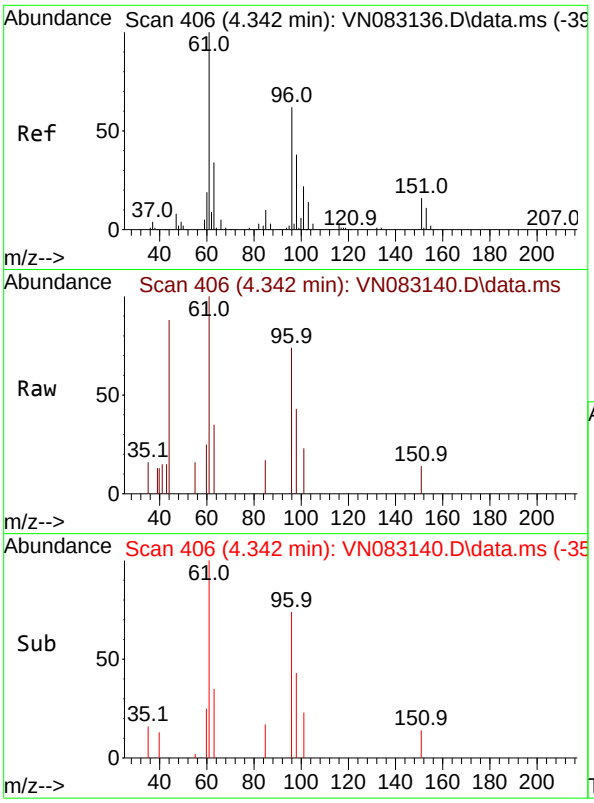


#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.946 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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

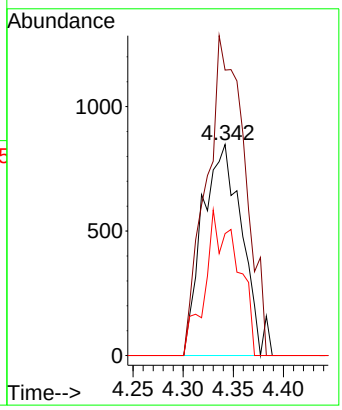




#12
1,1-Dichloroethene
Concen: 1.038 ug/l
RT: 4.342 min Scan# 4(
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 96 Resp: 232

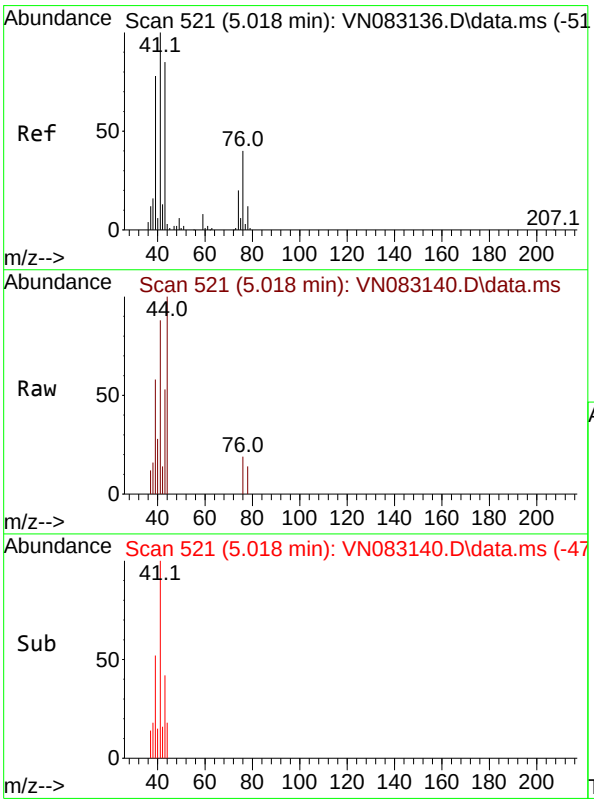
Ion	Ratio	Lower	Upper
96	100		
61	135.3	149.7	224.5#
98	57.8	50.1	75.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

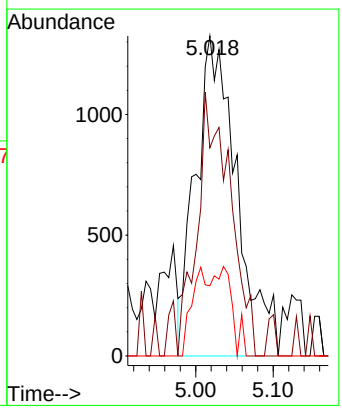
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

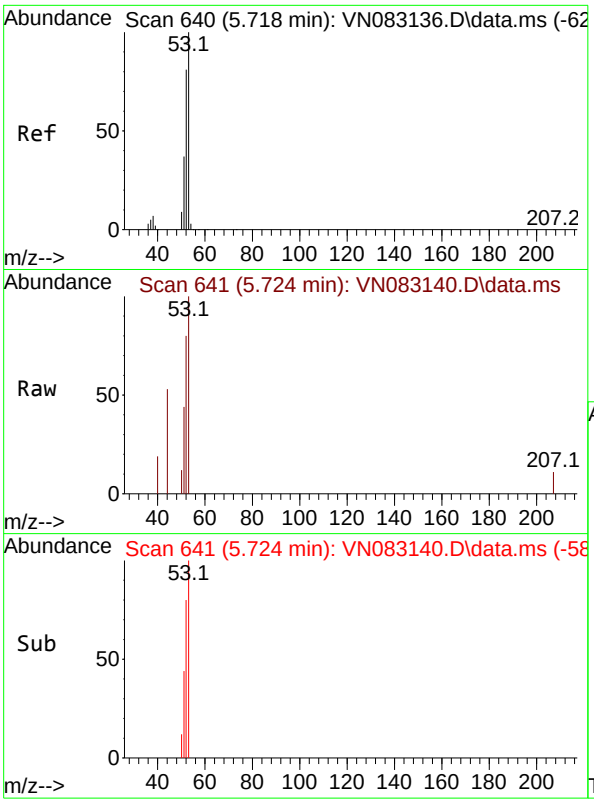


#14
Allyl chloride
Concen: 1.155 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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#

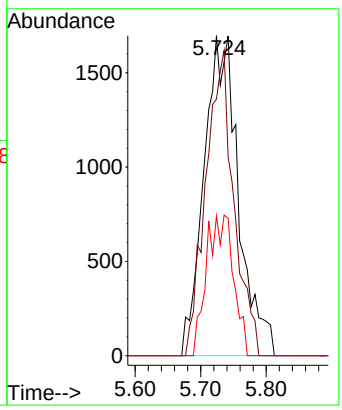




#15
Acrylonitrile
Concen: 5.036 ug/l
RT: 5.724 min Scan# 64
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 53 Resp: 619

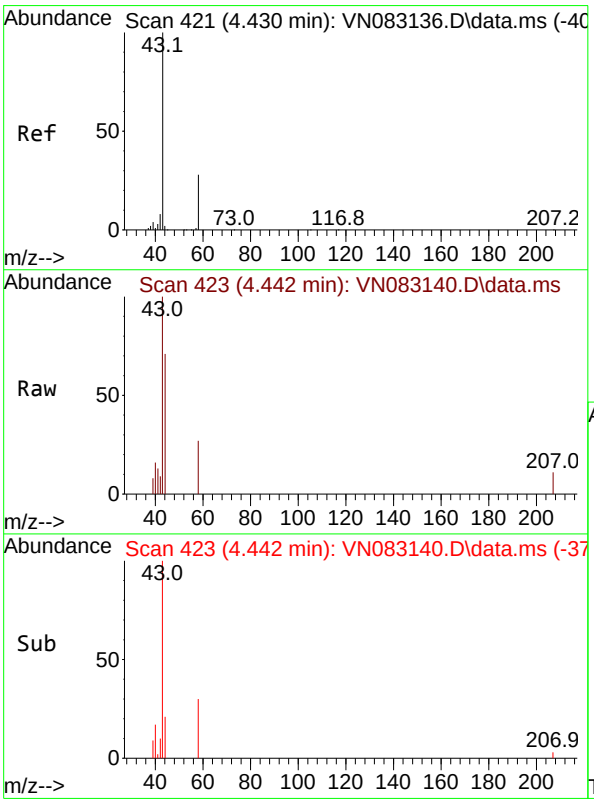
Ion	Ratio	Lower	Upper
53	100		
52	77.5	66.6	100.0
51	34.3	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

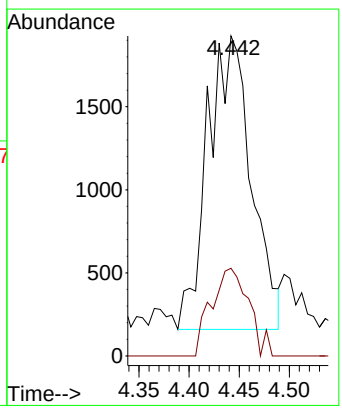
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

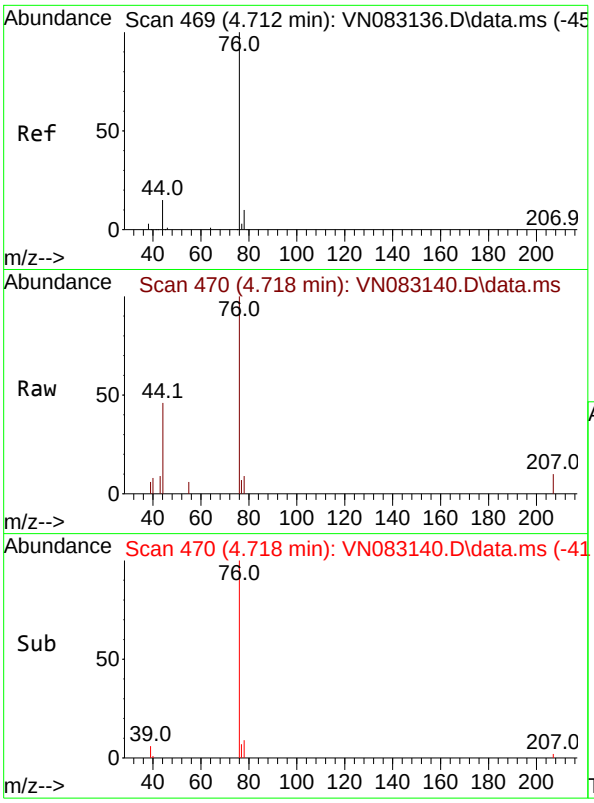


#16
Acetone
Concen: 4.765 ug/l
RT: 4.442 min Scan# 423
Delta R.T. 0.012 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 43 Resp: 5369

Ion	Ratio	Lower	Upper
43	100		
58	29.9	21.8	32.6

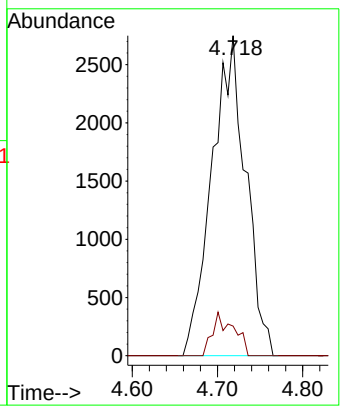




#17
Carbon Disulfide
Concen: 1.159 ug/l
RT: 4.718 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 76 Resp: 760

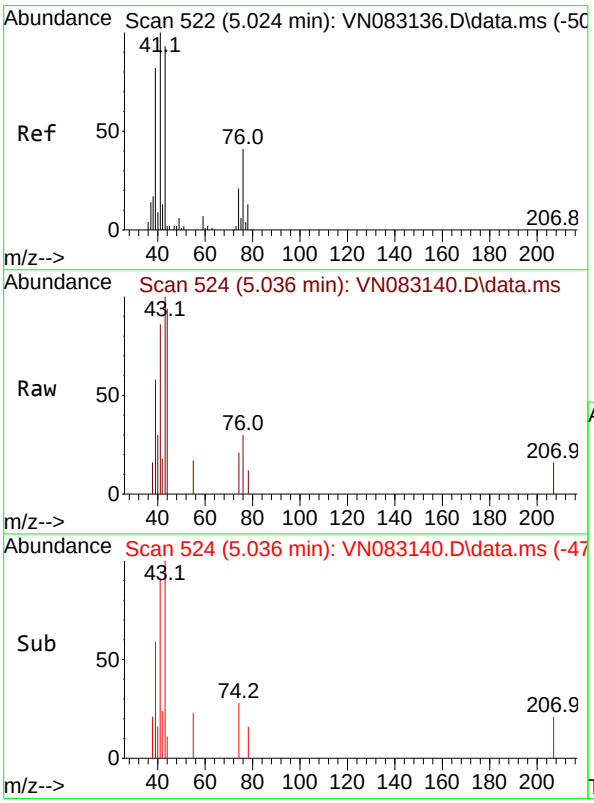
Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

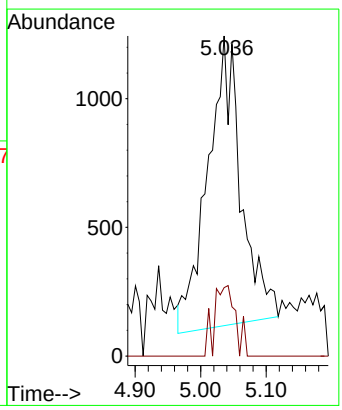
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

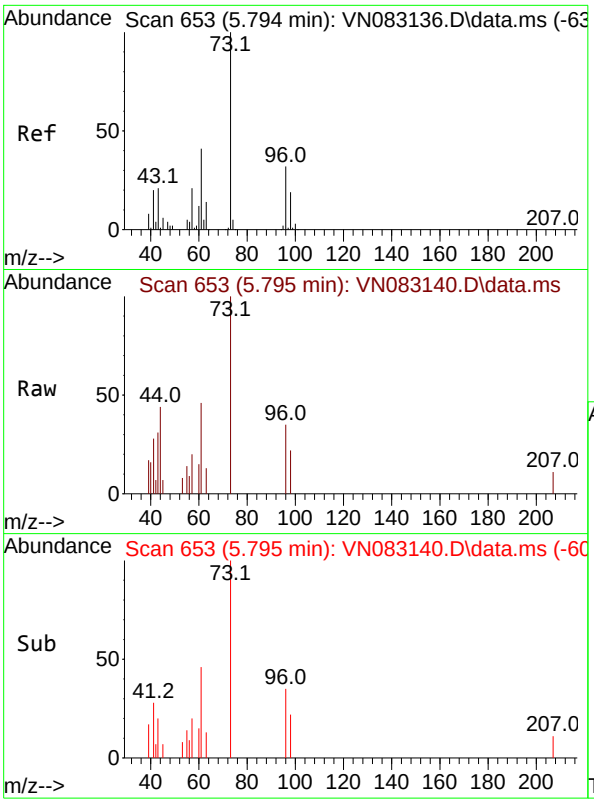


#18
Methyl Acetate
Concen: 1.188 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.012 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 43 Resp: 3987

Ion	Ratio	Lower	Upper
43	100		
74	15.5	16.3	24.5#

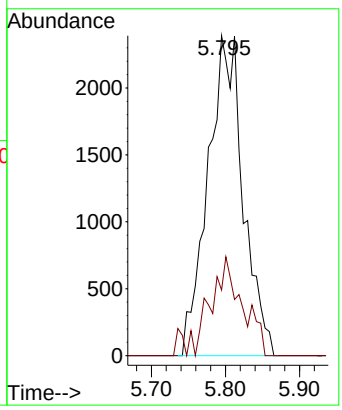




#19
Methyl tert-butyl Ether
Concen: 0.976 ug/l
RT: 5.795 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 73 Resp: 790

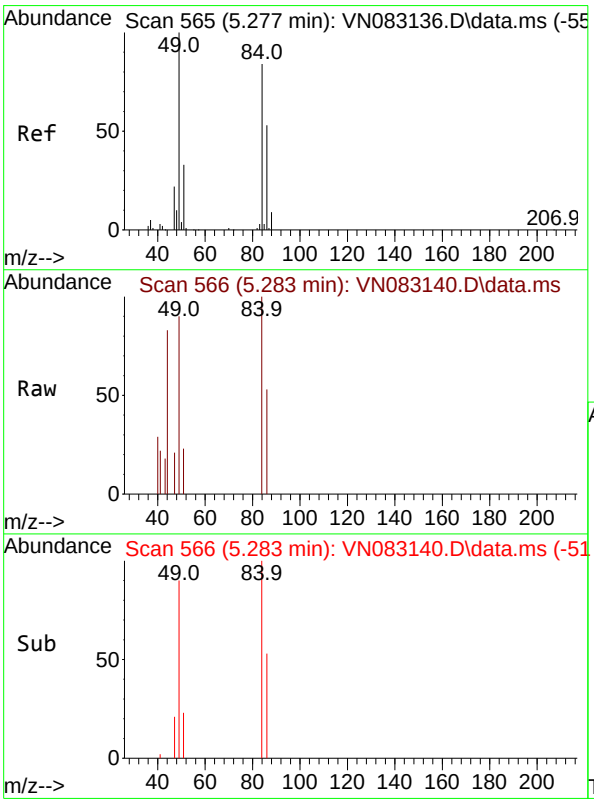
Ion	Ratio	Lower	Upper
73	100		
57	20.5	17.9	26.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

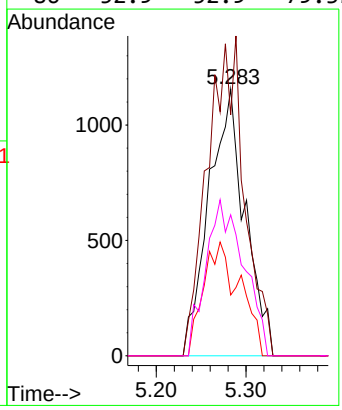
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

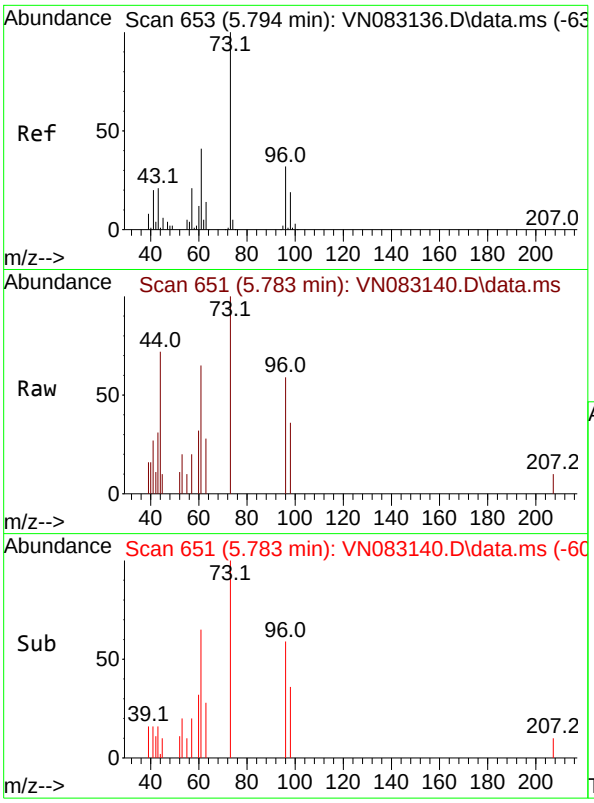


#20
Methylene Chloride
Concen: 1.255 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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#

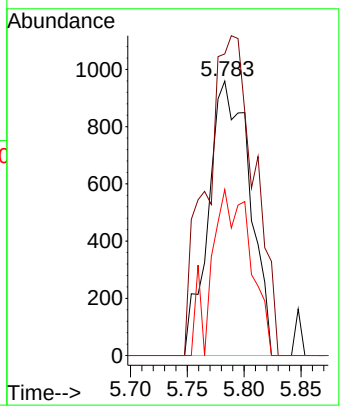




#21
trans-1,2-Dichloroethene
Concen: 1.046 ug/l
RT: 5.783 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 96 Resp: 242

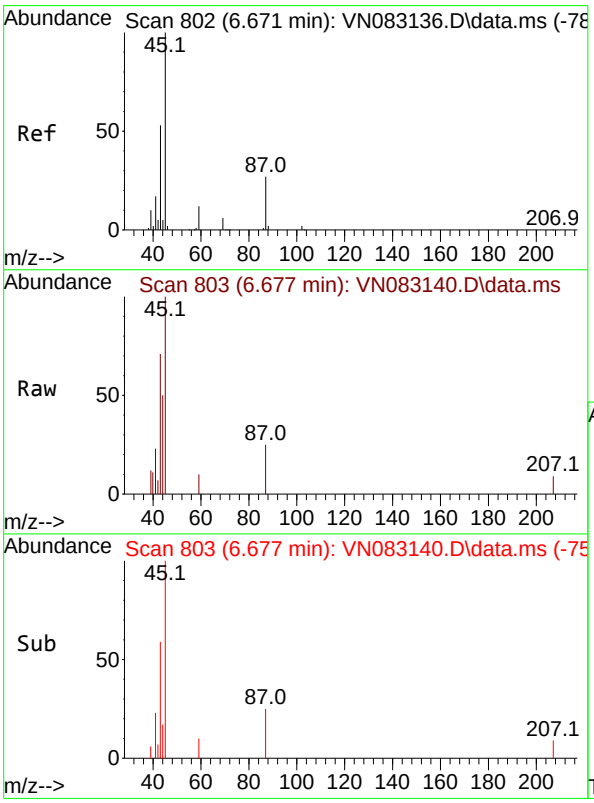
Ion	Ratio	Lower	Upper
96	100		
61	109.9	123.4	185.2
98	60.5	49.3	73.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

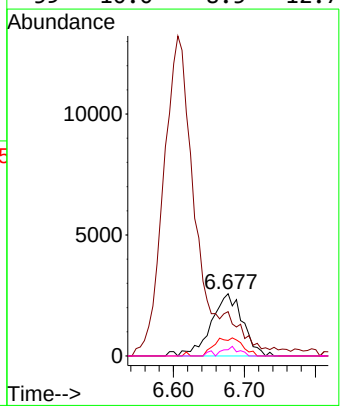
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

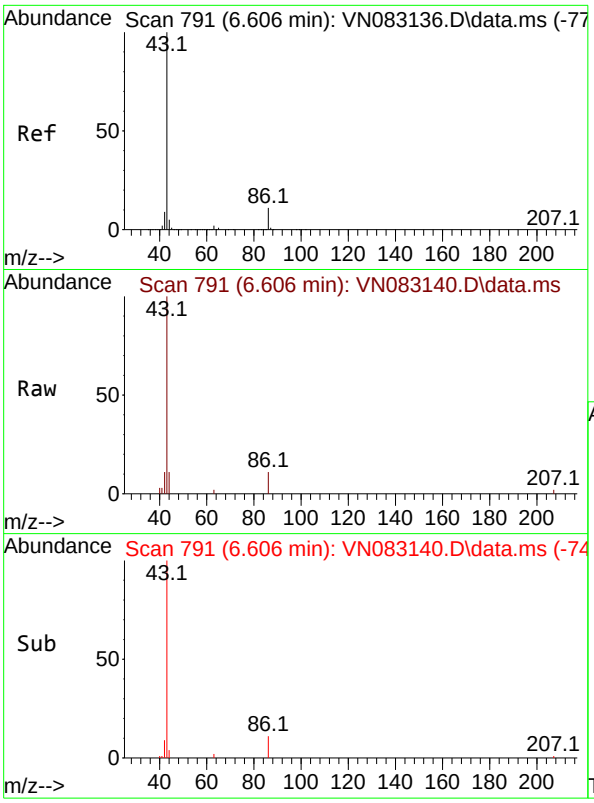


#22
Diisopropyl ether
Concen: 0.988 ug/l
RT: 6.677 min Scan# 803
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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

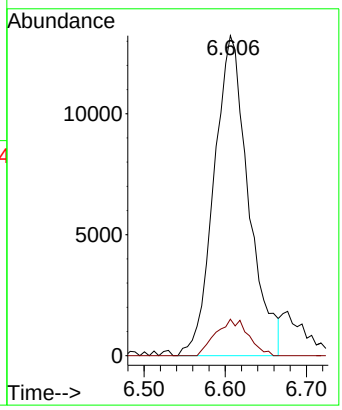
Tgt Ion: 43 Resp: 3904

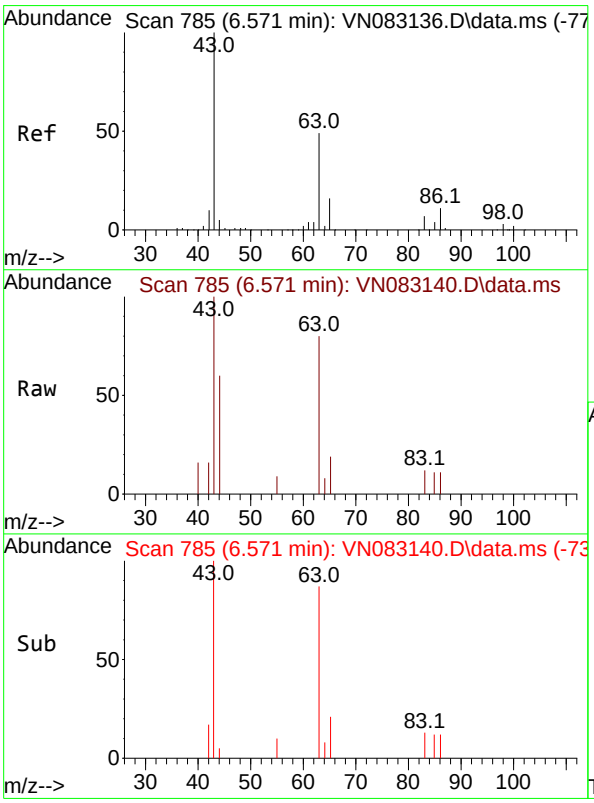
Ion	Ratio	Lower	Upper
43	100		
86	11.4	7.3	10.9#

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

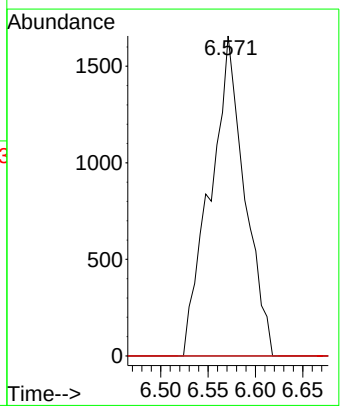


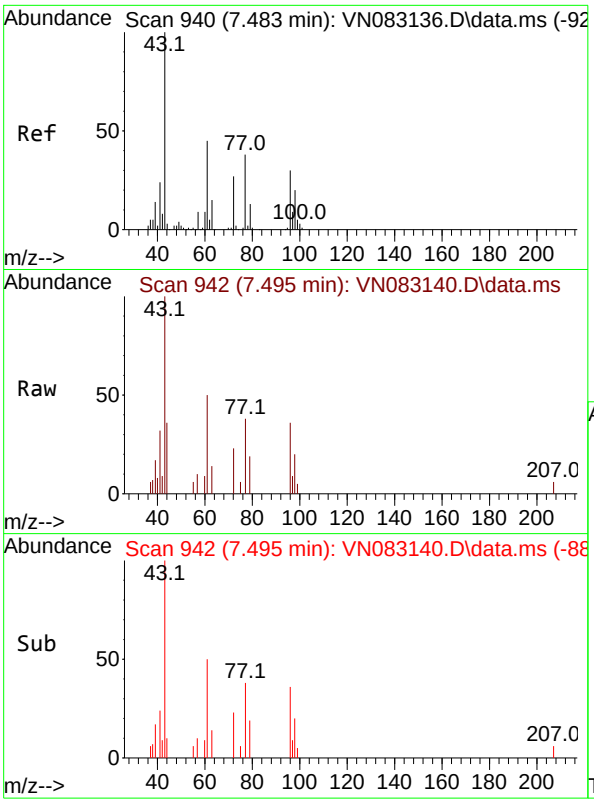


#24
1,1-Dichloroethane
Concen: 0.965 ug/l
RT: 6.571 min Scan# 785
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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

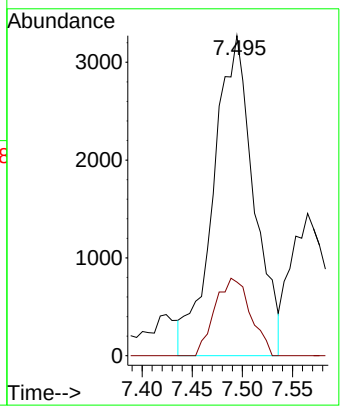
Tgt Ion: 43 Resp: 9164

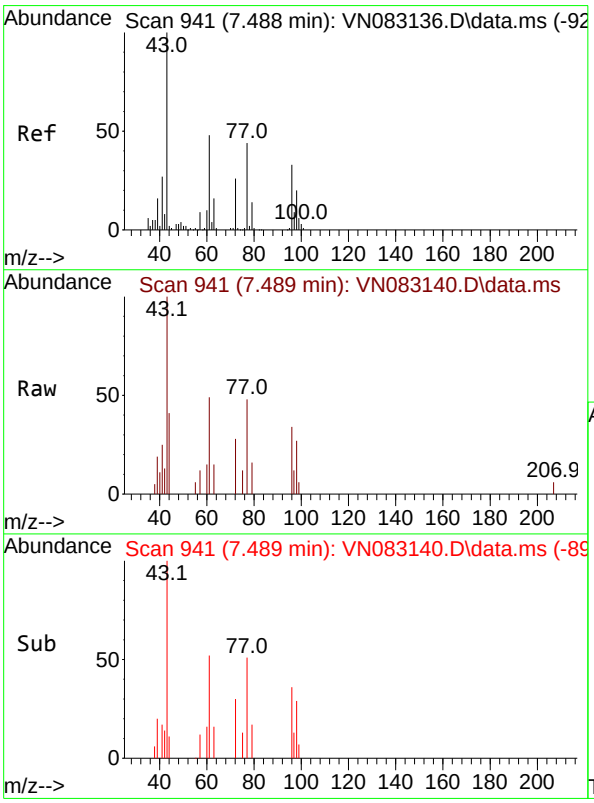
Ion	Ratio	Lower	Upper
43	100		
72	25.9	18.2	27.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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

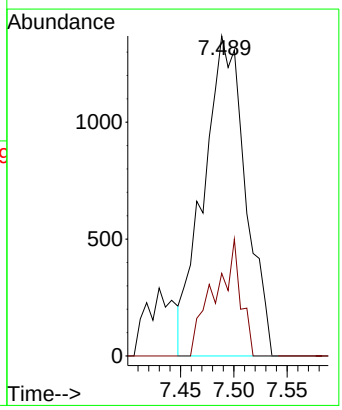


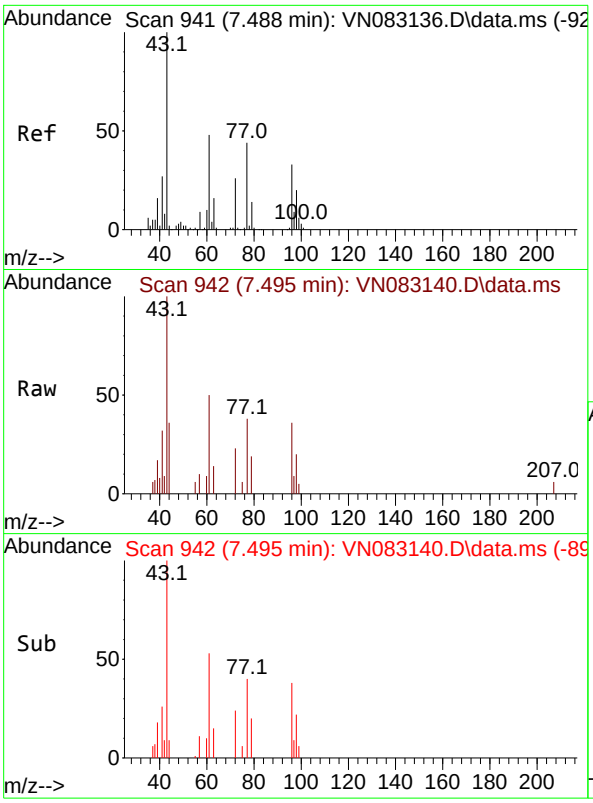


#26
2,2-Dichloropropane
Concen: 0.928 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 77 Resp: 3741

Ion	Ratio	Lower	Upper
77	100		
97	22.9	10.3	30.9

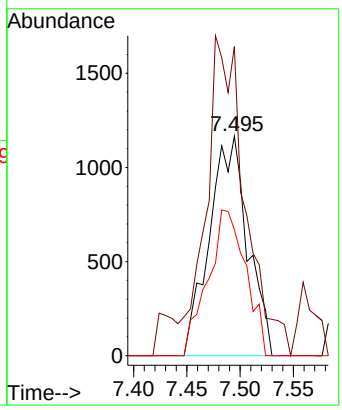




#27
cis-1,2-Dichloroethene
Concen: 1.044 ug/l
RT: 7.495 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 96 Resp: 291

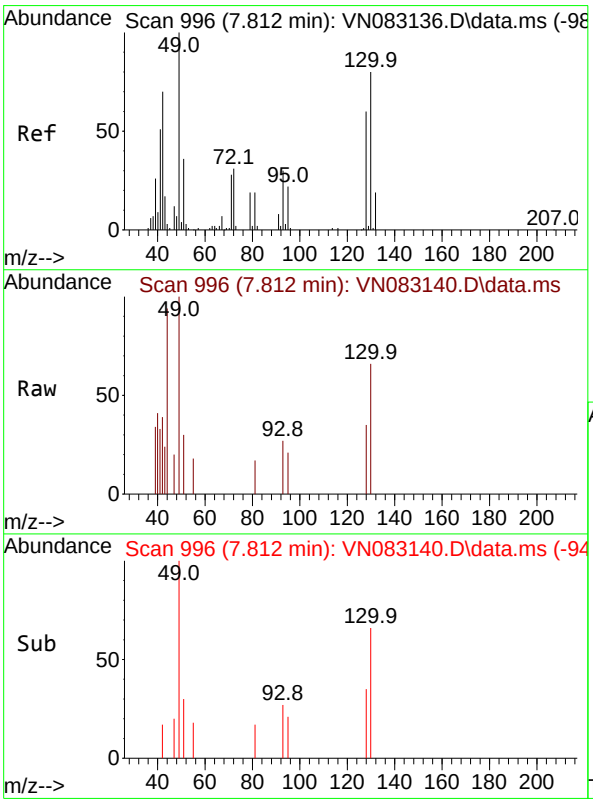
Ion	Ratio	Lower	Upper
96	100		
61	146.7	0.0	329.6
98	65.4	0.0	128.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

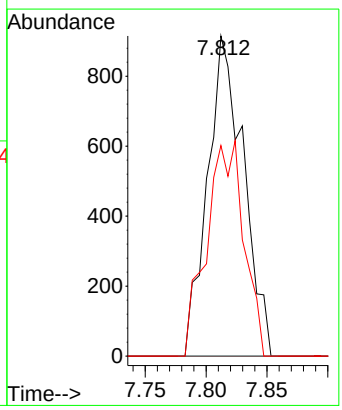
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

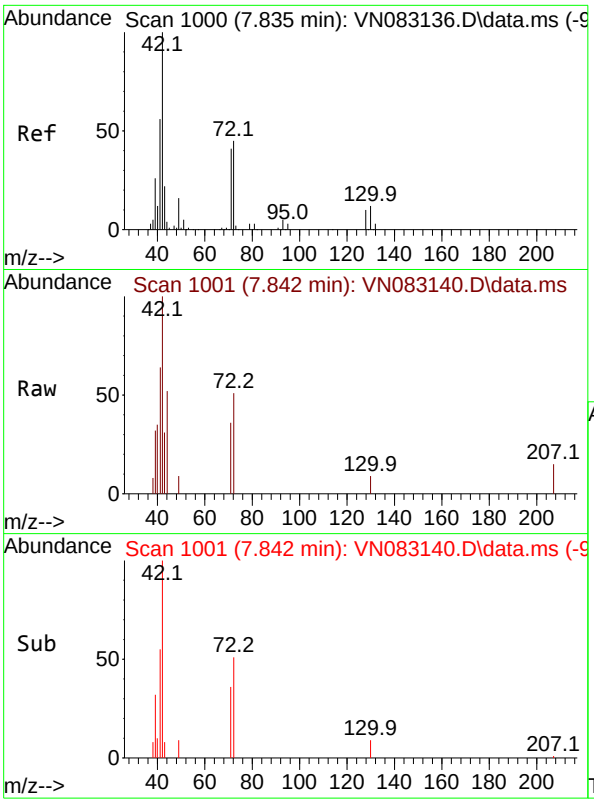


#28
Bromochloromethane
Concen: 1.061 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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

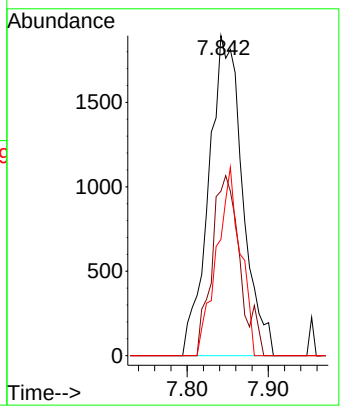




#29
Tetrahydrofuran
Concen: 4.909 ug/l
RT: 7.842 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 42 Resp: 549(

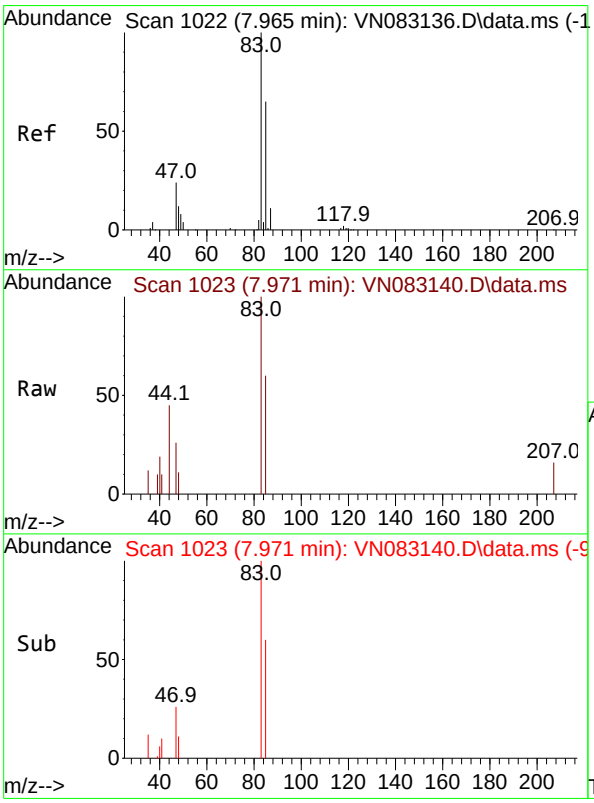
Ion	Ratio	Lower	Upper
42	100		
72	46.5	30.0	45.0#
71	41.2	28.3	42.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

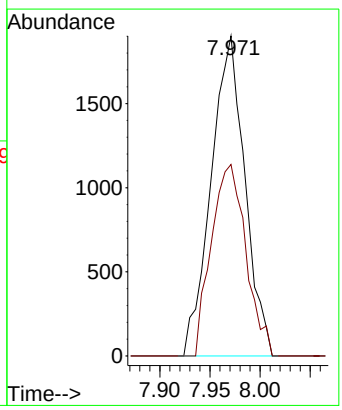
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

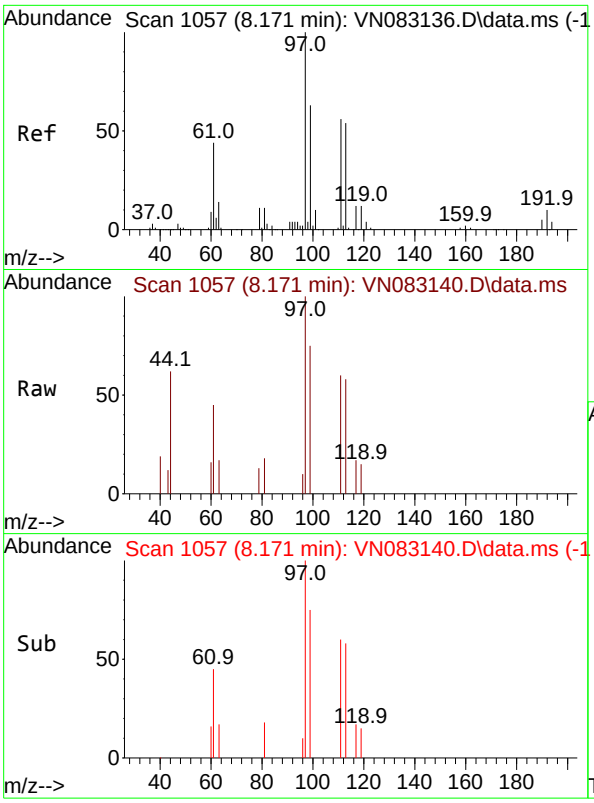


#30
Chloroform
Concen: 0.988 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 83 Resp: 4457

Ion	Ratio	Lower	Upper
83	100		
85	59.8	50.9	76.3

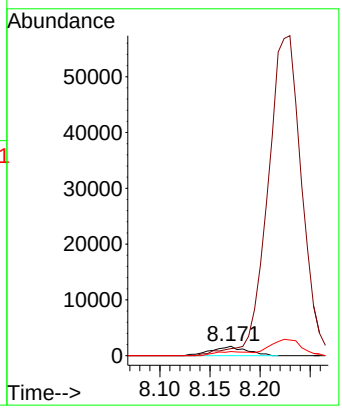




#32
1,1,1-Trichloroethane
Concen: 0.955 ug/l
RT: 8.171 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 97 Resp: 407

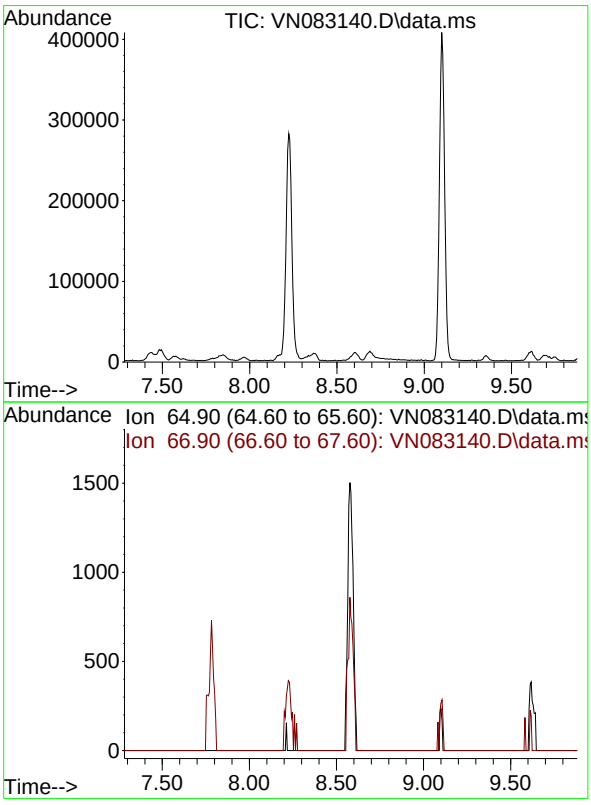
Ion	Ratio	Lower	Upper
97	100		
99	0.0	52.0	78.0#
61	44.6	42.1	63.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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

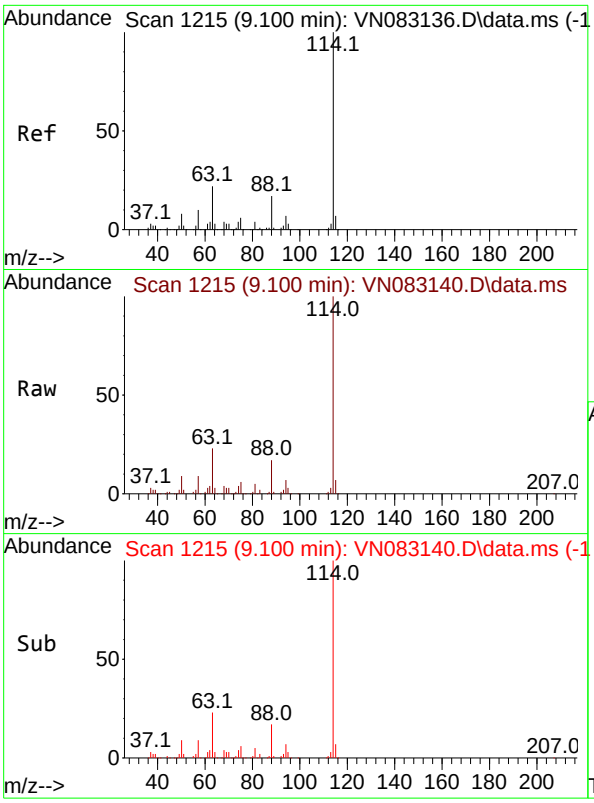


#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 8.58 min

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

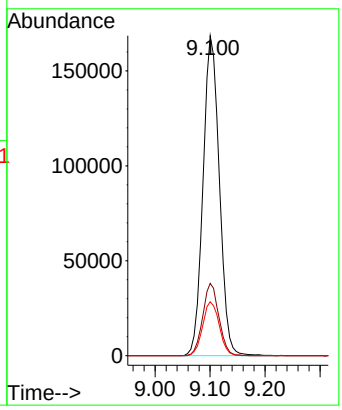
Tgt Ion:114 Resp: 34739

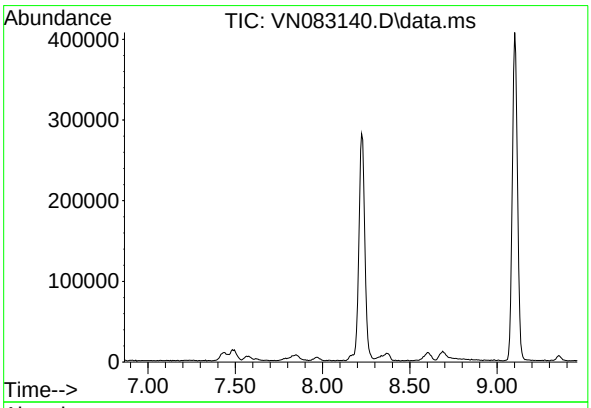
Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	44.6
88	16.9	0.0	31.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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



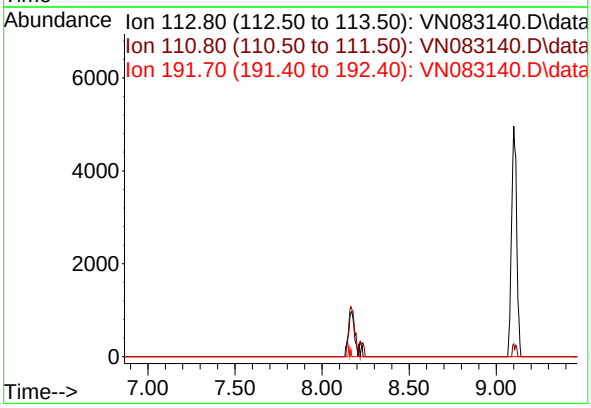


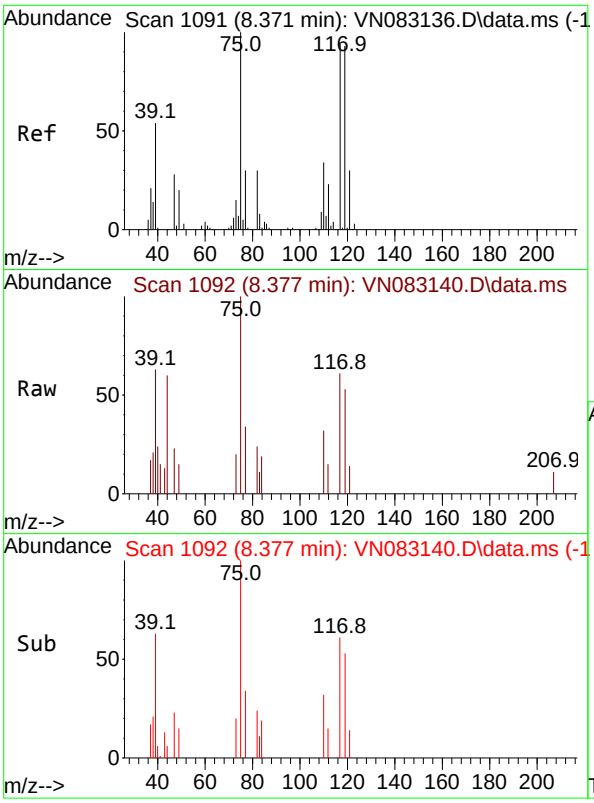
#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 8.16 min

Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 113

Sig	Exp Ratio
113	100
111	103.0
192	18.6

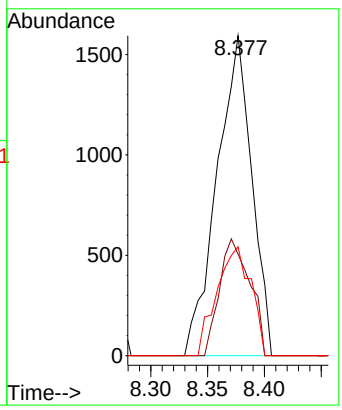




#36
1,1-Dichloropropene
Concen: 1.034 ug/l
RT: 8.377 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 75 Resp: 339

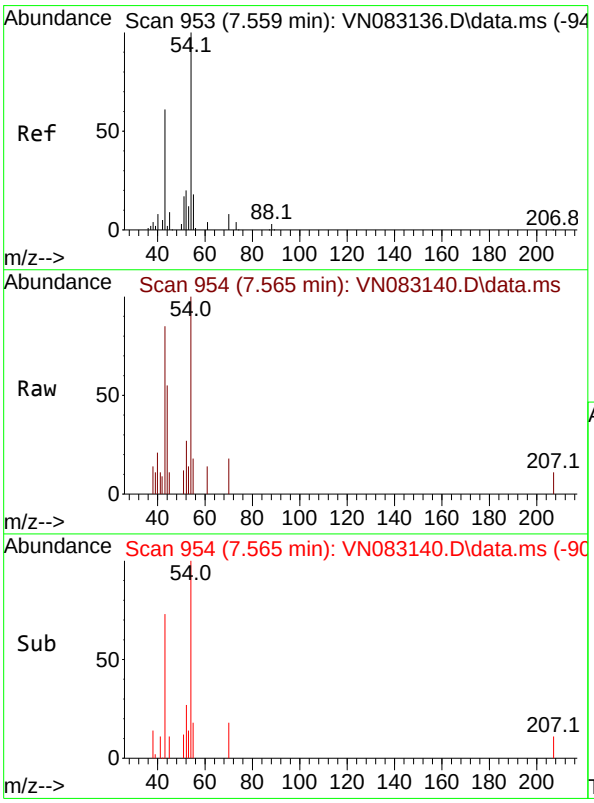
Ion	Ratio	Lower	Upper
75	100		
110	32.0	16.3	48.9
77	33.3	24.6	37.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

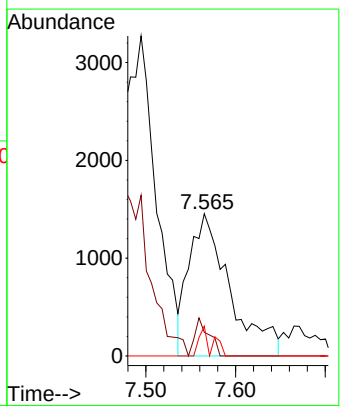
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

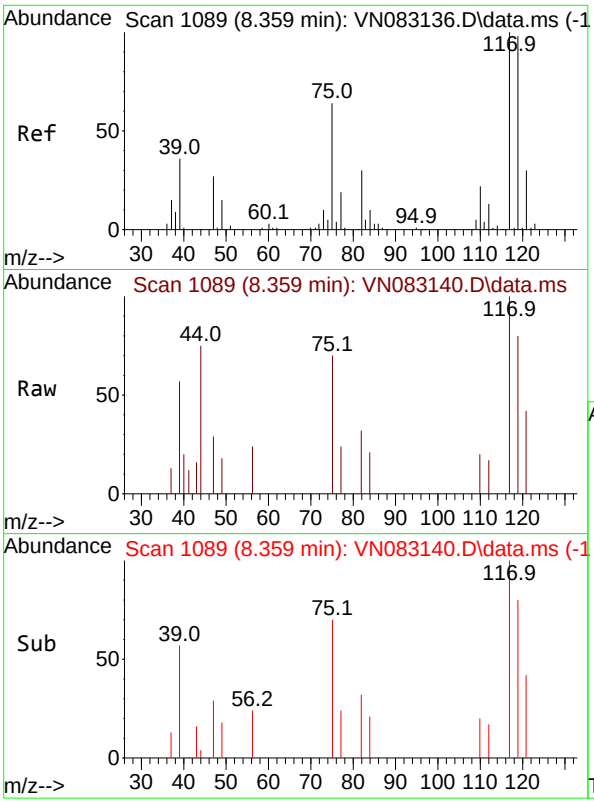


#37
Ethyl Acetate
Concen: 1.257 ug/l
RT: 7.565 min Scan# 954
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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#

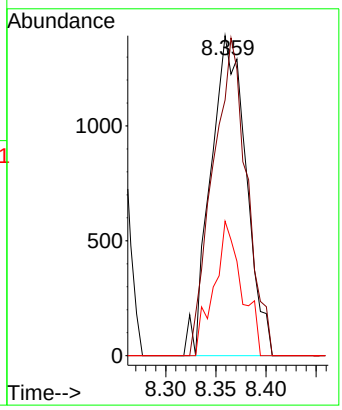




#38
Carbon Tetrachloride
Concen: 0.926 ug/l
RT: 8.359 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:117 Resp: 342

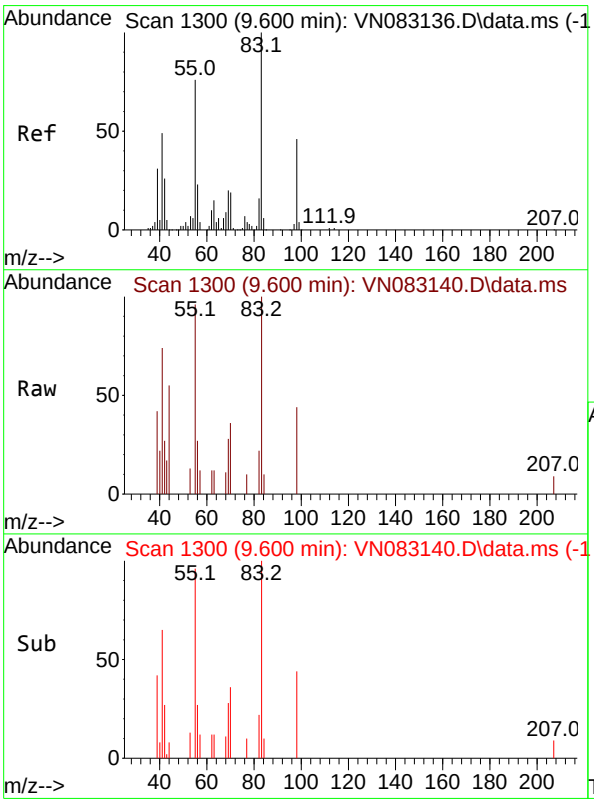
Ion	Ratio	Lower	Upper
117	100		
119	79.9	74.9	112.3
121	42.0	24.3	36.5#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

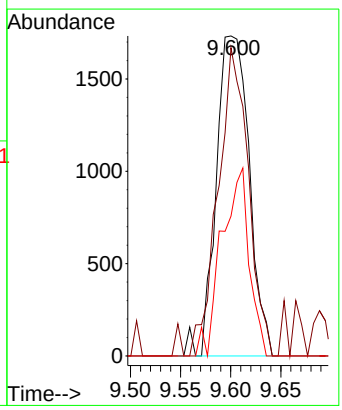
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

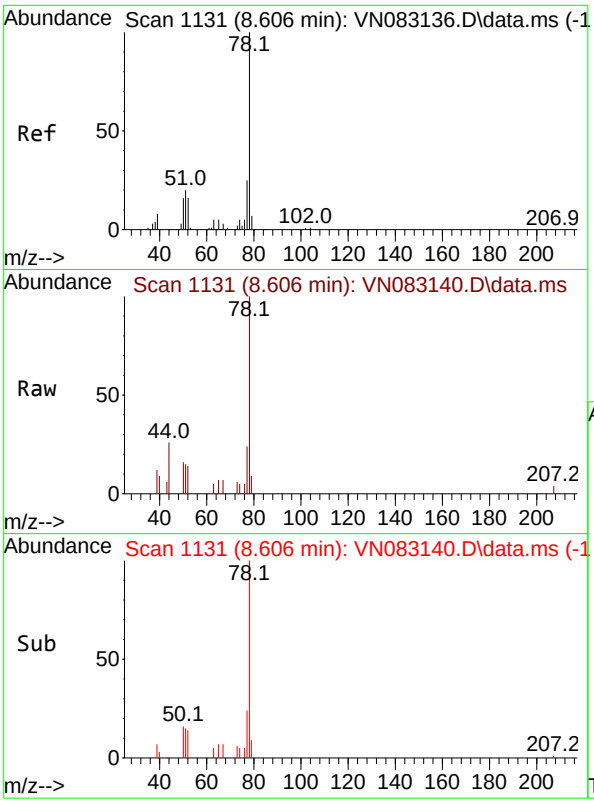


#39
Methylcyclohexane
Concen: 0.986 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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

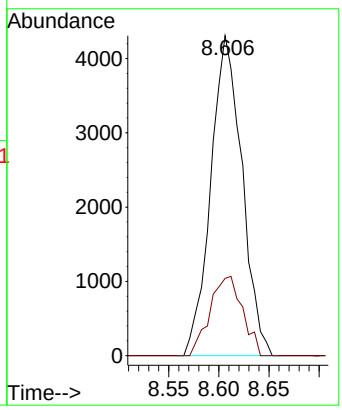




#40
Benzene
Concen: 0.955 ug/l
RT: 8.606 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 78 Resp: 933

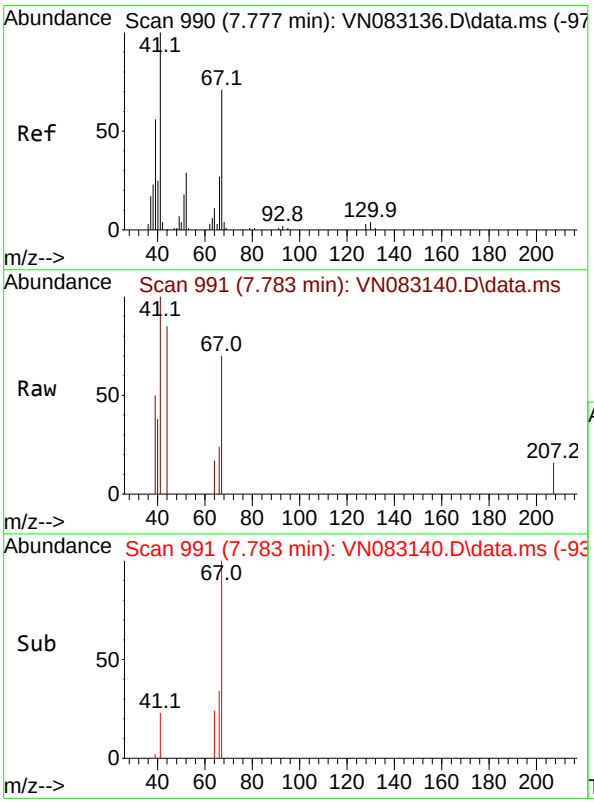
Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.0	28.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

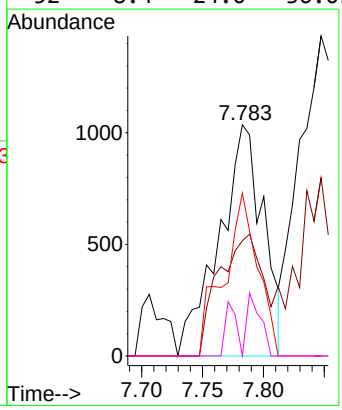
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

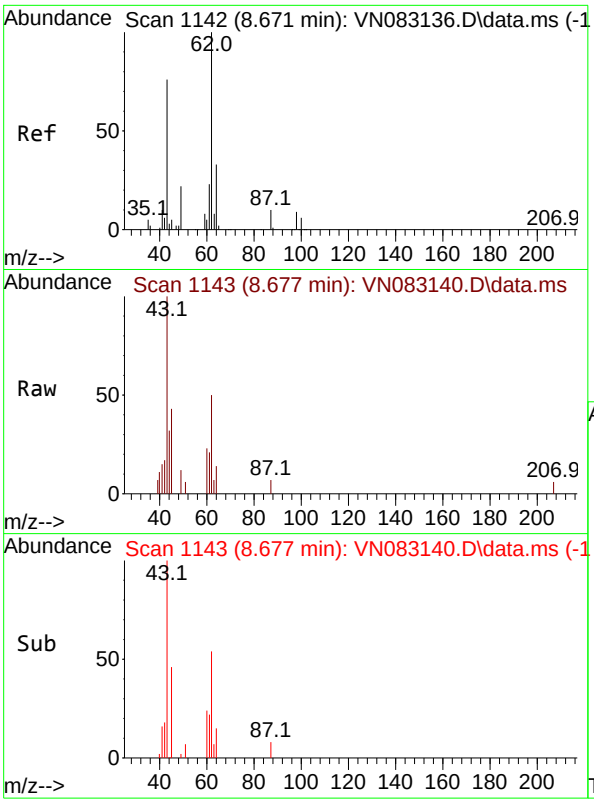


#41
Methacrylonitrile
Concen: 1.254 ug/l
RT: 7.783 min Scan# 991
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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#

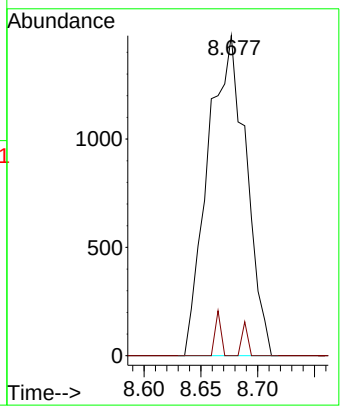




#42
1,2-Dichloroethane
Concen: 0.971 ug/l
RT: 8.677 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 62 Resp: 345

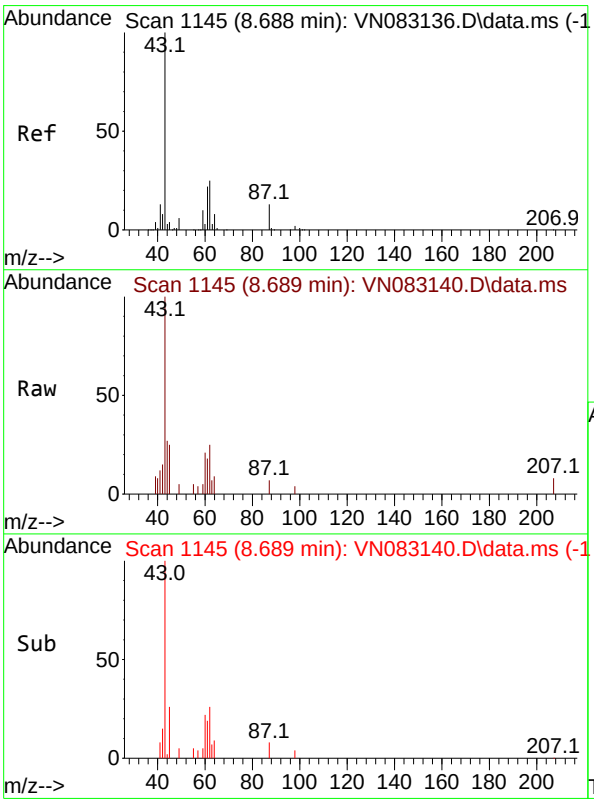
Ion	Ratio	Lower	Upper
62	100		
98	1.6	0.0	15.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

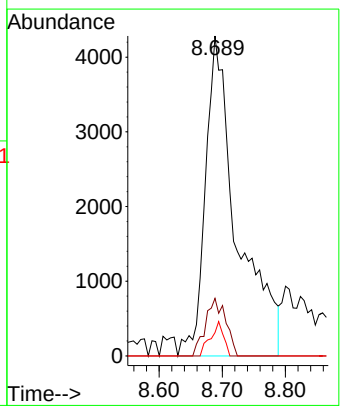
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

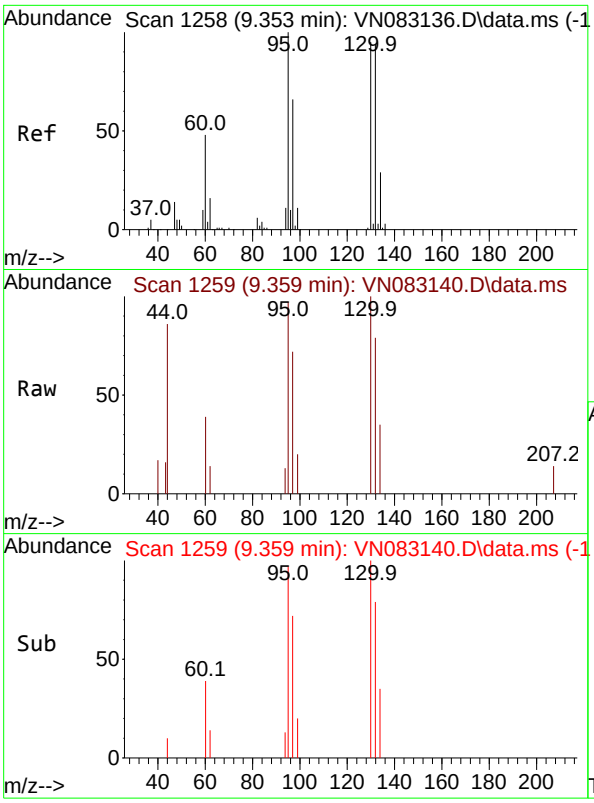


#43
Isopropyl Acetate
Concen: 0.753 ug/l
RT: 8.689 min Scan# 1145
Delta R.T. 0.001 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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

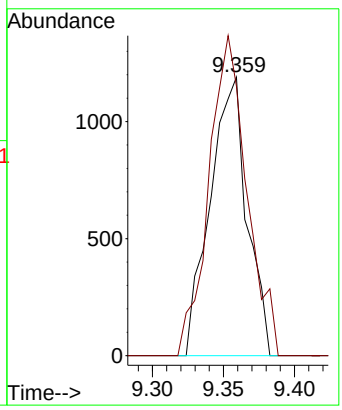
Tgt Ion:130 Resp: 215

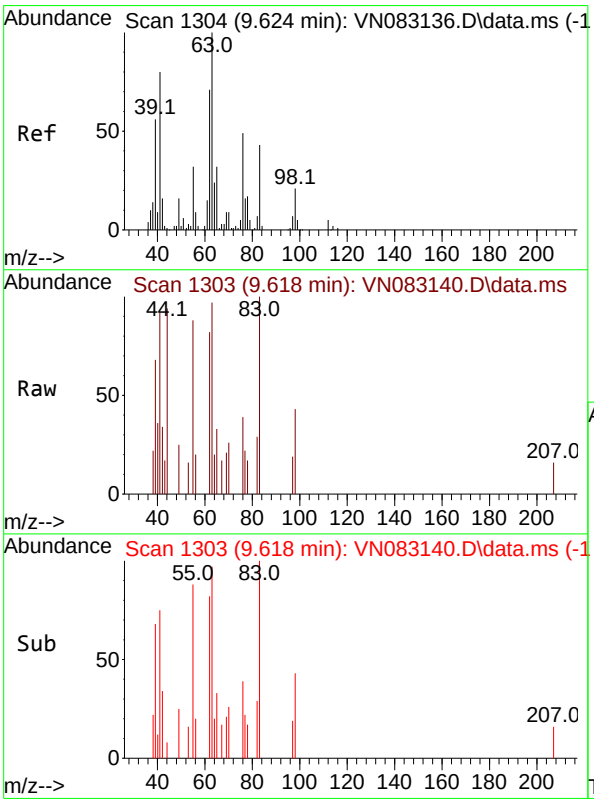
Ion	Ratio	Lower	Upper
130	100		
95	96.7	0.0	197.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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

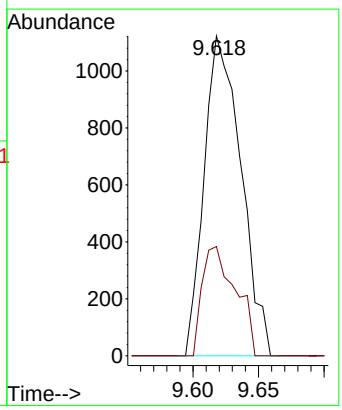


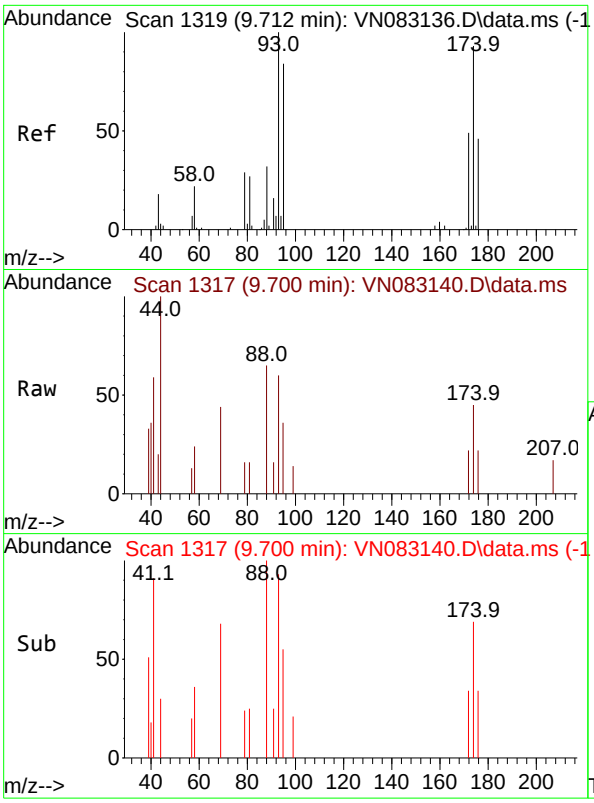


#45
1,2-Dichloropropane
Concen: 0.946 ug/l
RT: 9.618 min Scan# 1303
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 63 Resp: 2194

Ion	Ratio	Lower	Upper
63	100		
65	34.2	24.4	36.6

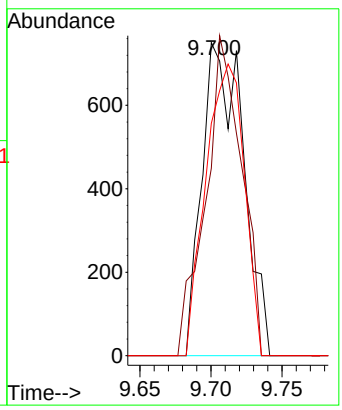




#46
Dibromomethane
Concen: 0.911 ug/l
RT: 9.700 min Scan# 1
Delta R.T. -0.012 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 93 Resp: 151

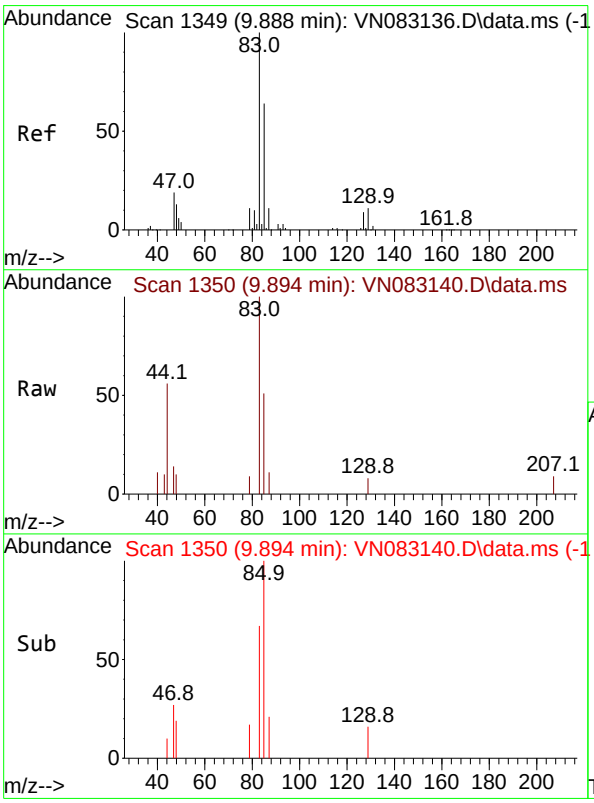
Ion	Ratio	Lower	Upper
93	100		
95	89.4	65.8	98.6
174	87.3	71.7	107.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

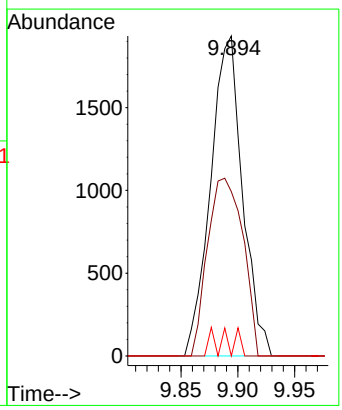
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

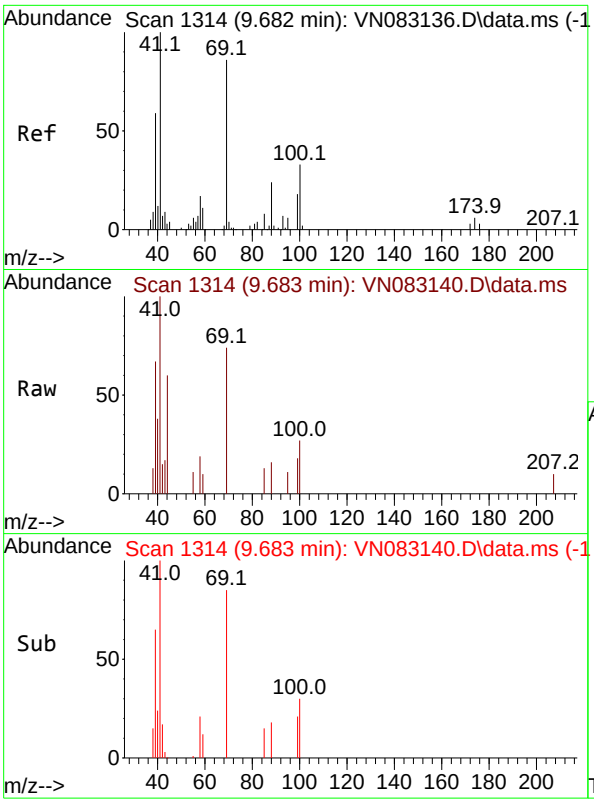


#47
Bromodichloromethane
Concen: 1.015 ug/l
RT: 9.894 min Scan# 1350
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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

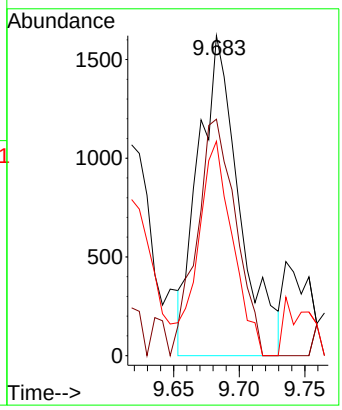
Tgt Ion: 41 Resp: 351

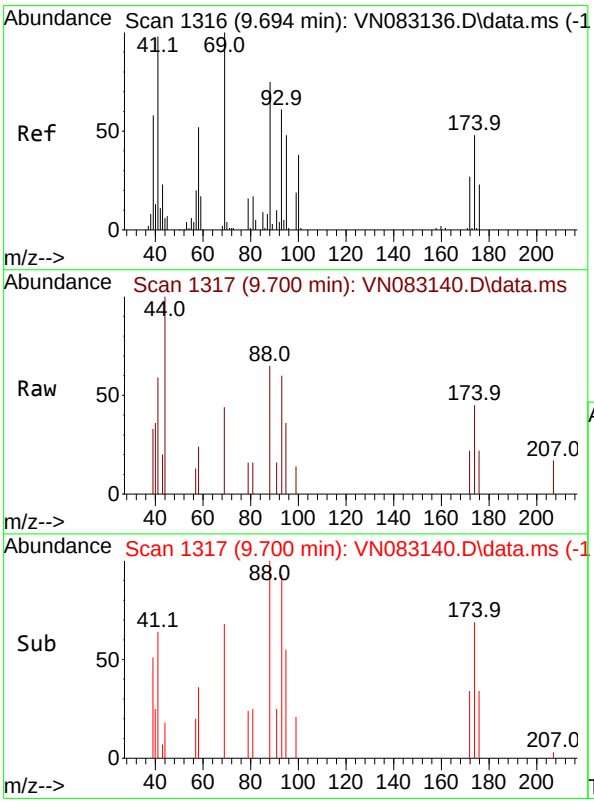
Ion	Ratio	Lower	Upper
41	100		
69	70.6	56.3	84.5
39	57.3	50.3	75.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

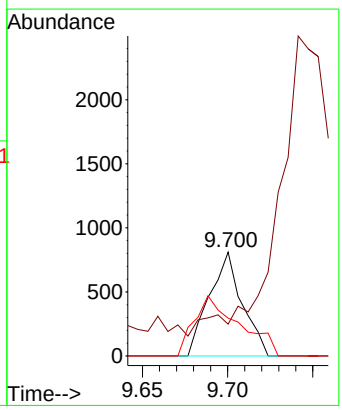


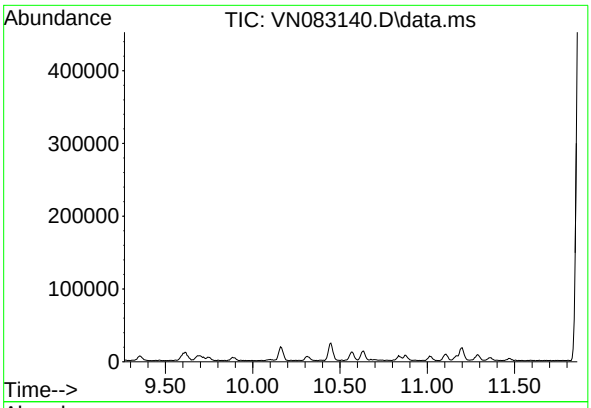


#49
1,4-Dioxane
Concen: 19.880 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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

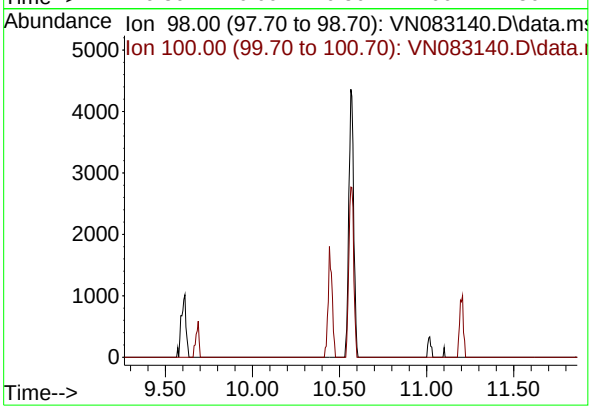
Tgt Ion: 98

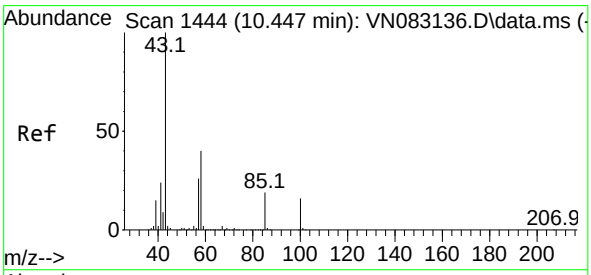
Sig	Exp Ratio
98	100
100	64.4

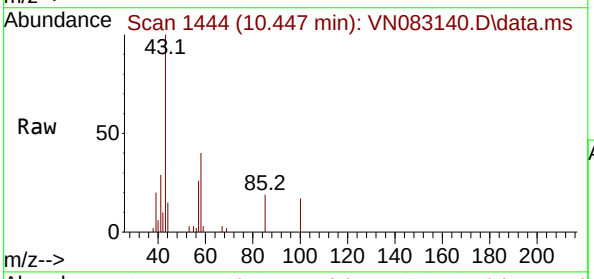
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

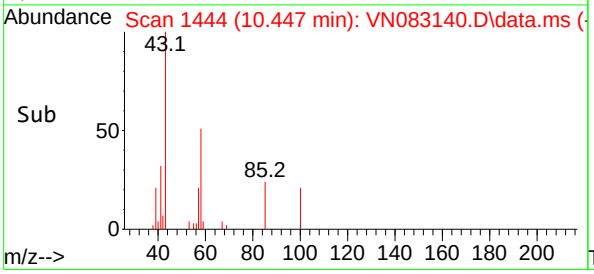
Manual Integrations APPROVED

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





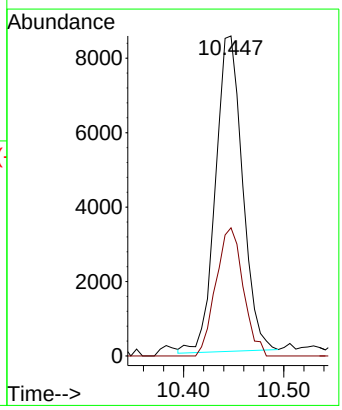


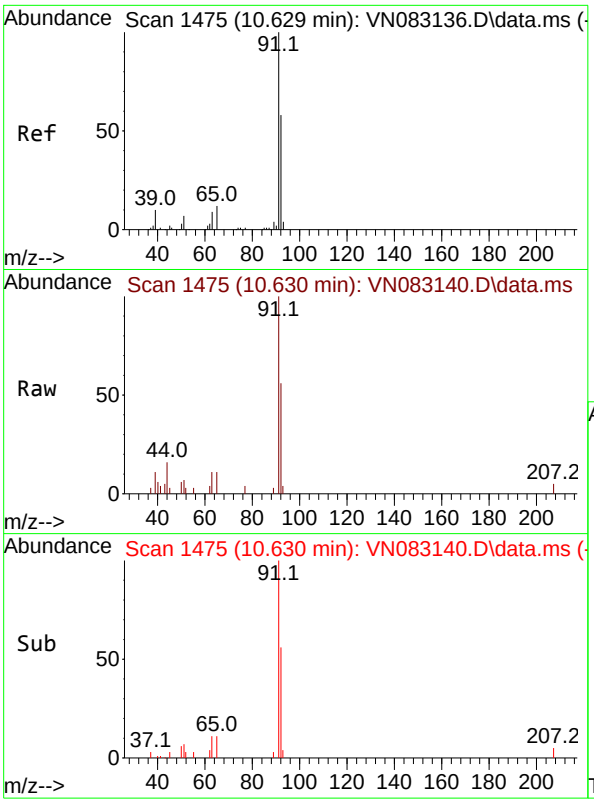


#51
4-Methyl-2-Pentanone
Concen: 4.570 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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

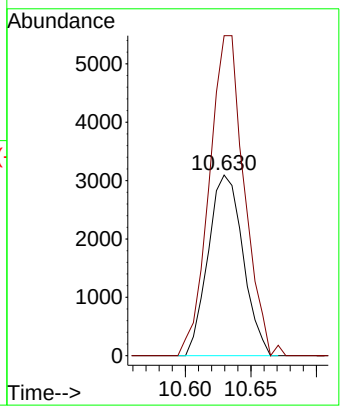
Tgt Ion: 92 Resp: 572

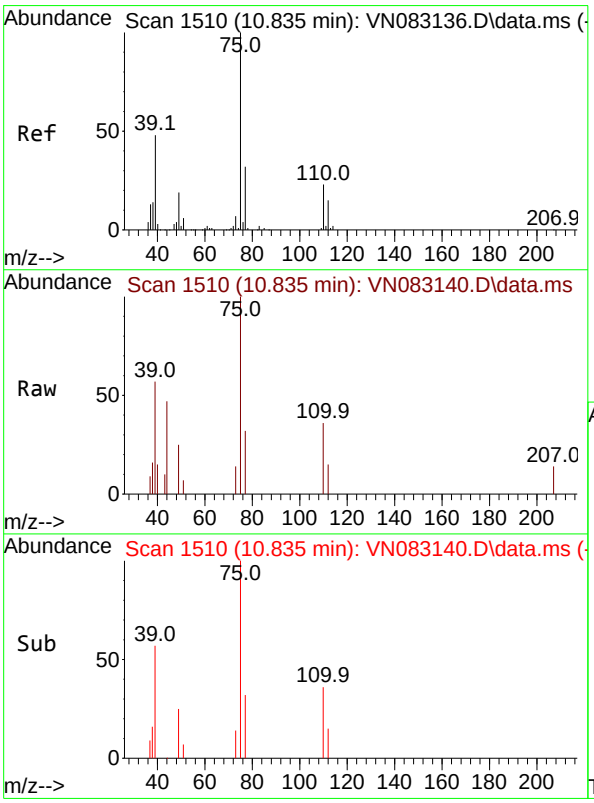
Ion	Ratio	Lower	Upper
92	100		
91	178.1	139.4	209.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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

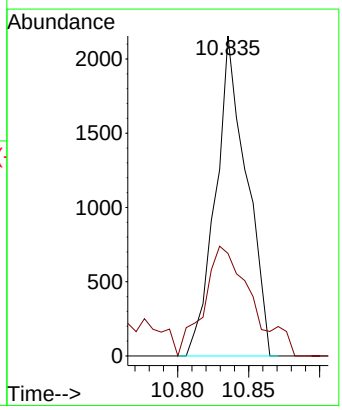


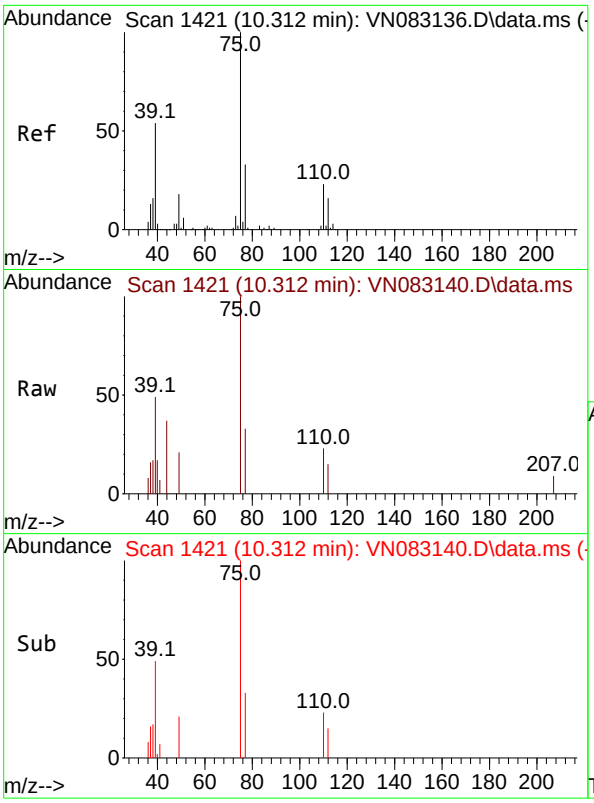


#53
t-1,3-Dichloropropene
Concen: 0.851 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 75 Resp: 3260

Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.7	38.5

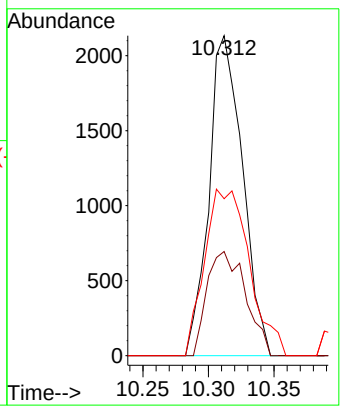




#54
cis-1,3-Dichloropropene
Concen: 0.932 ug/l
RT: 10.312 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 75 Resp: 379

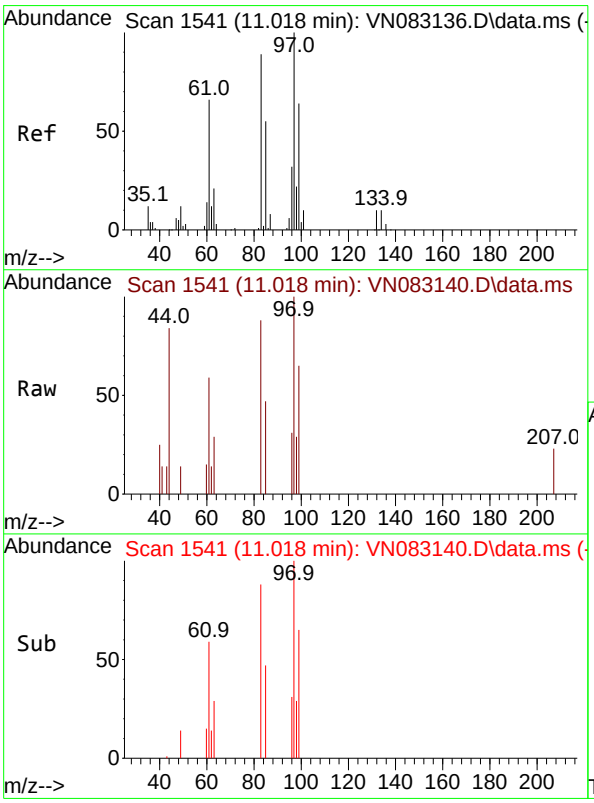
Ion	Ratio	Lower	Upper
75	100		
77	32.5	24.3	36.5
39	49.0	50.5	75.7#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

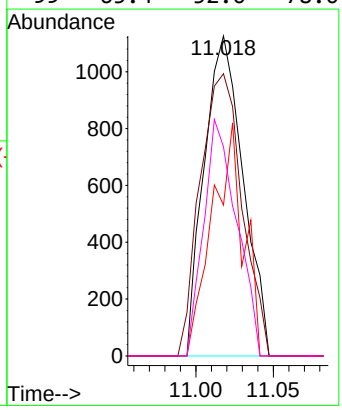
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

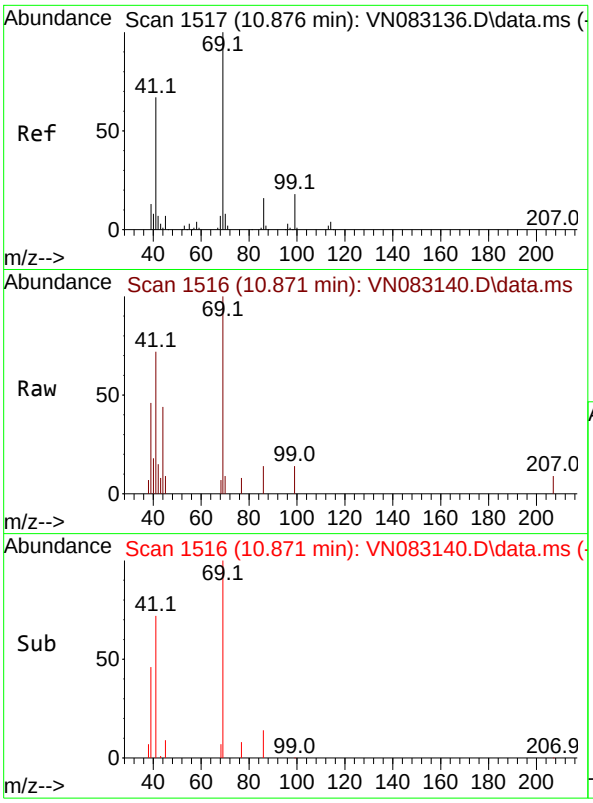


#55
1,1,2-Trichloroethane
Concen: 0.887 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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

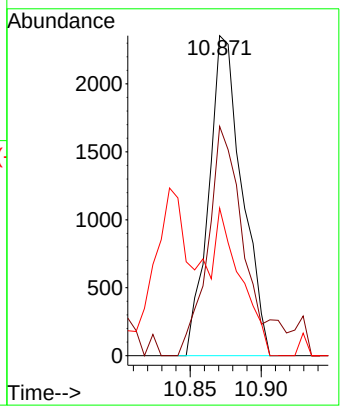




#56
Ethyl methacrylate
Concen: 0.921 ug/l
RT: 10.871 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 69 Resp: 384

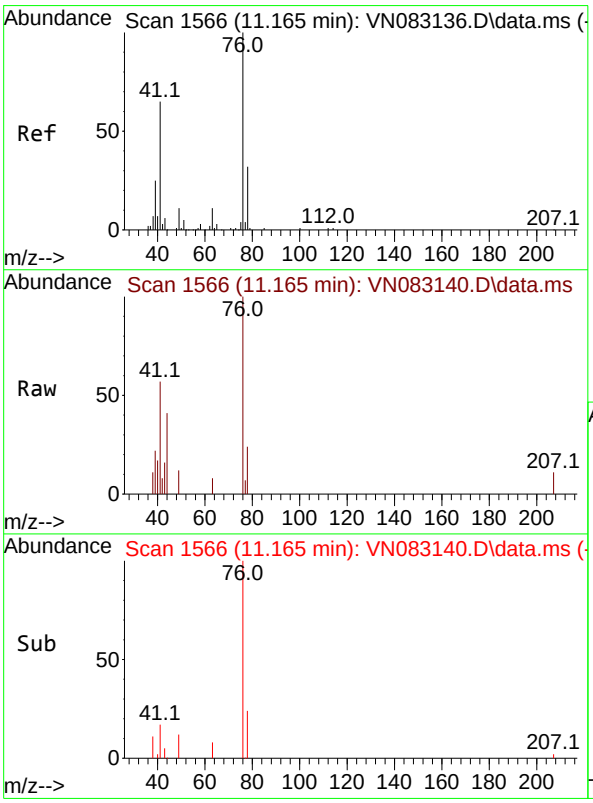
Ion	Ratio	Lower	Upper
69	100		
41	83.6	63.4	95.2
39	33.7	37.4	56.0#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

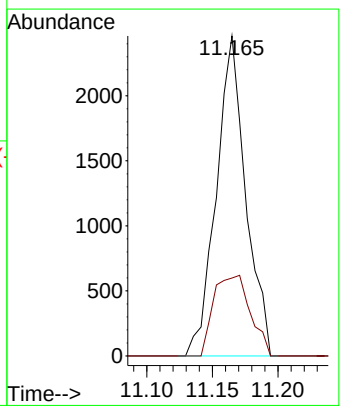
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

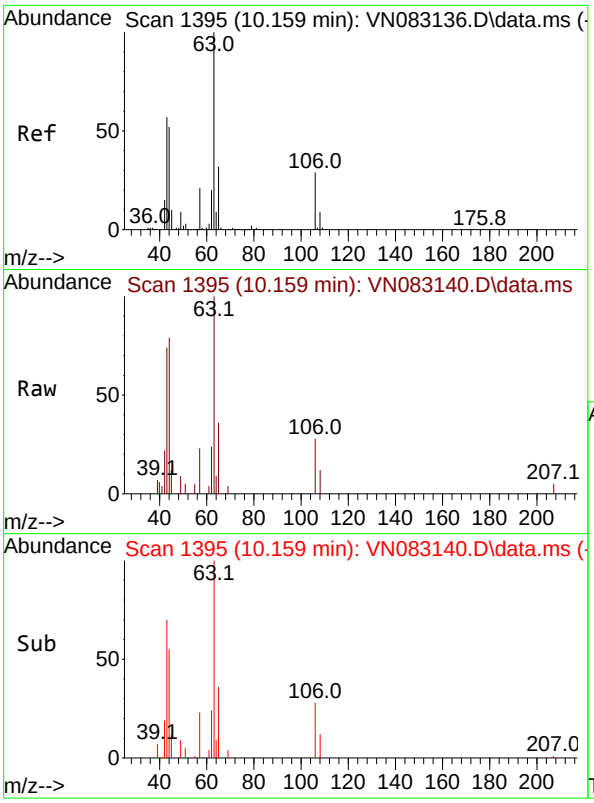


#57
1,3-Dichloropropane
Concen: 0.973 ug/l
RT: 11.165 min Scan# 1566
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 76 Resp: 3837

Ion	Ratio	Lower	Upper
76	100		
78	31.3	25.6	38.4

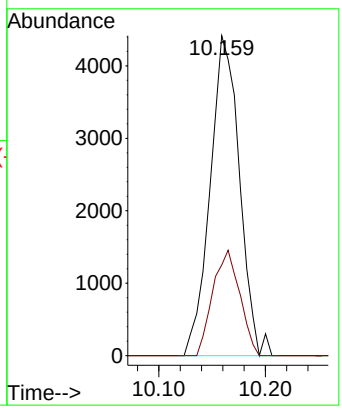




#58
2-Chloroethyl Vinyl ether
Concen: 4.794 ug/l
RT: 10.159 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 63 Resp: 845

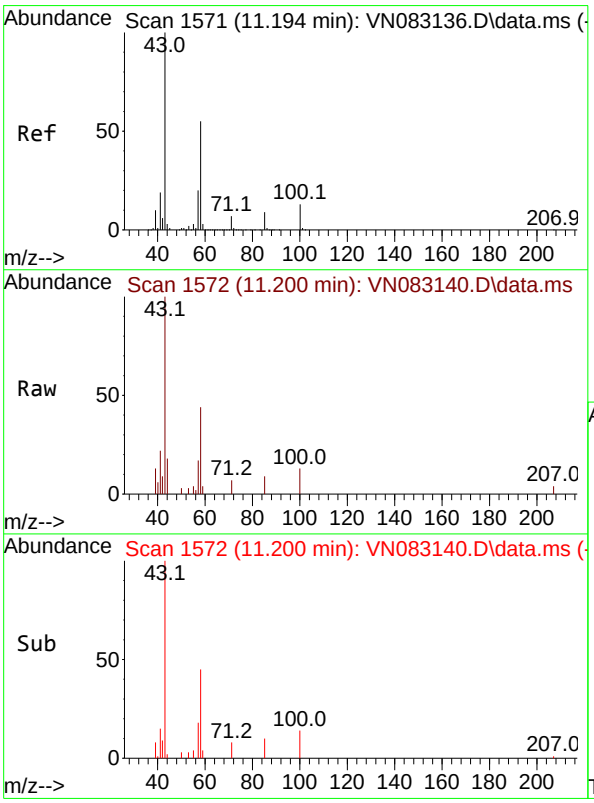
Ion	Ratio	Lower	Upper
63	100		
106	30.3	21.4	32.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

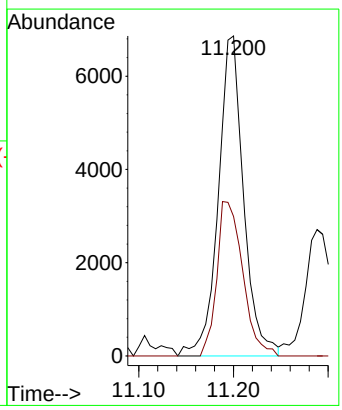
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

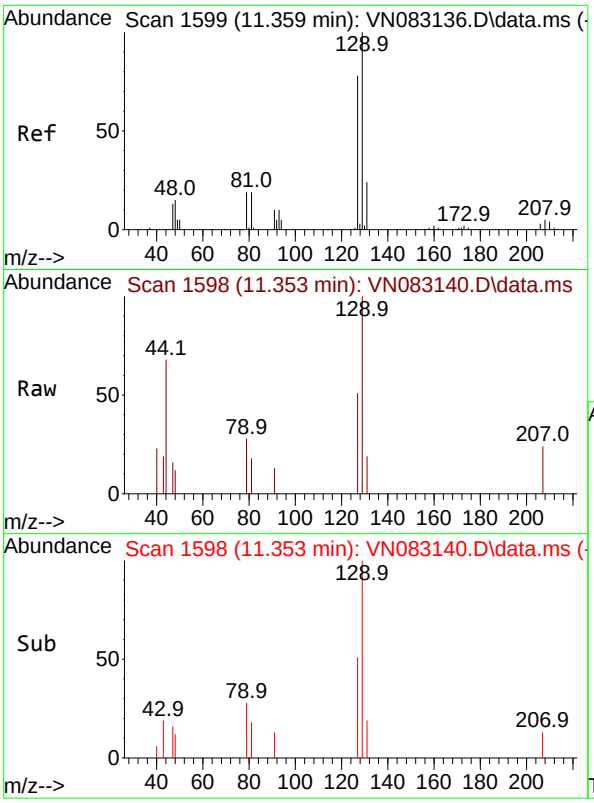


#59
2-Hexanone
Concen: 4.749 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 43 Resp: 12761

Ion	Ratio	Lower	Upper
43	100		
58	49.3	24.6	73.8

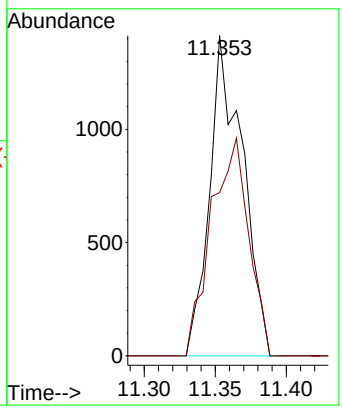




#60
Dibromochloromethane
Concen: 0.853 ug/l
RT: 11.353 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:129 Resp: 228

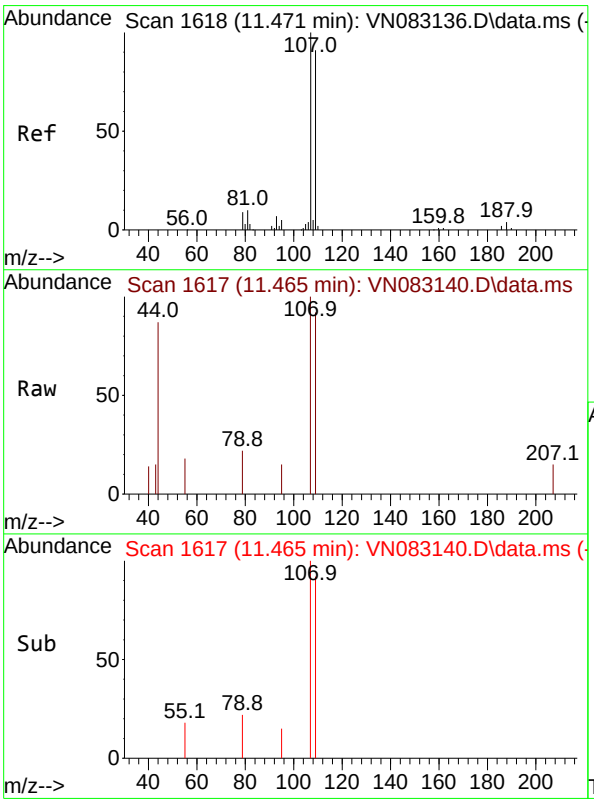
Ion	Ratio	Lower	Upper
129	100		
127	77.5	39.2	117.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

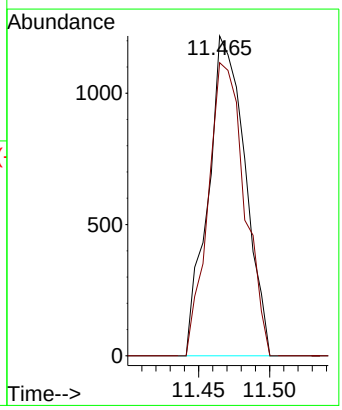
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

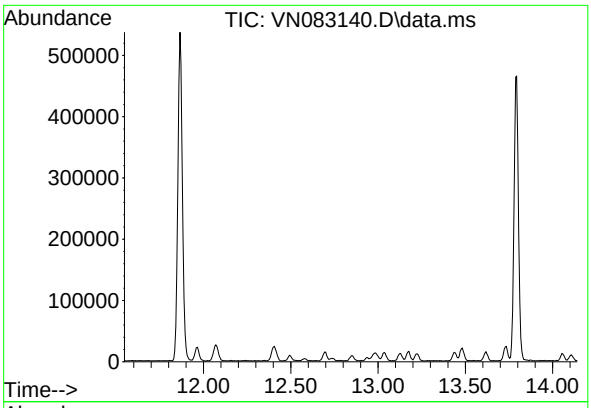


#61
1,2-Dibromoethane
Concen: 0.947 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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

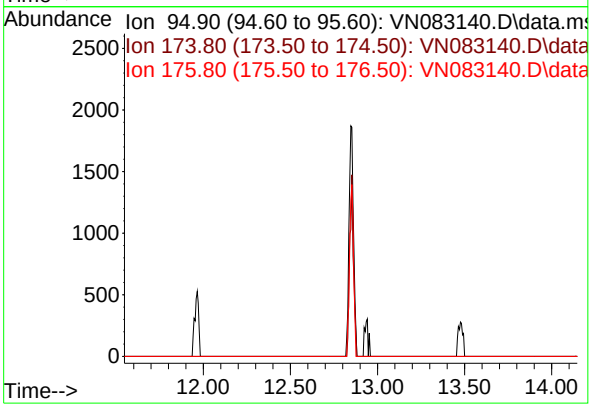
Tgt Ion: 95

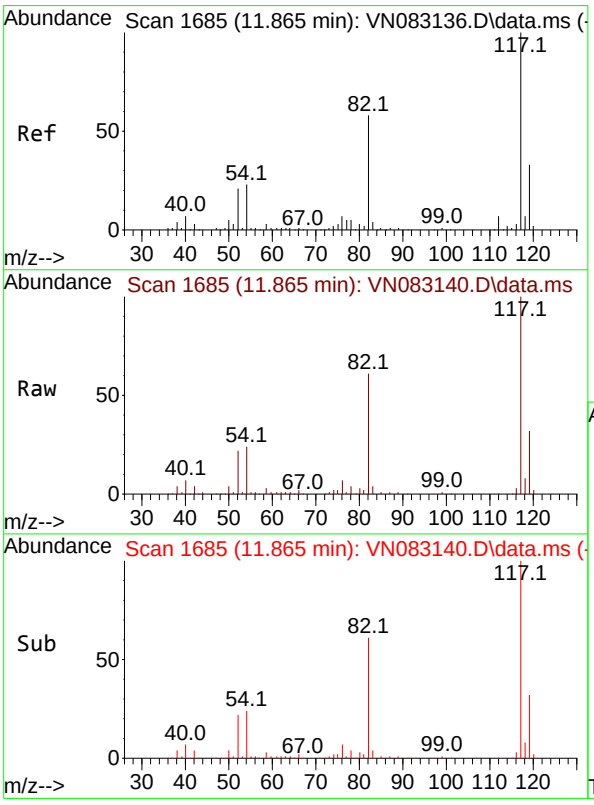
Sig	Exp Ratio
95	100
174	79.6
176	73.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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

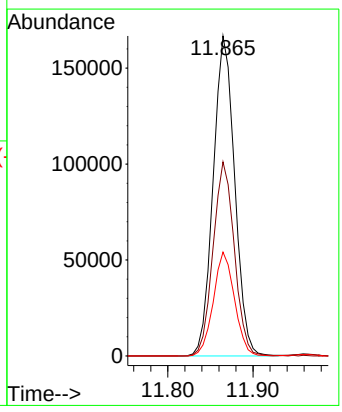


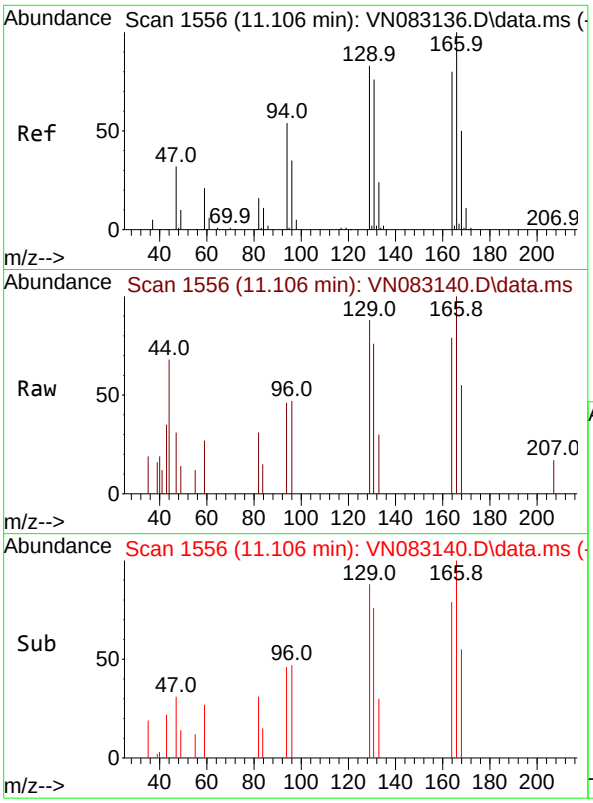


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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

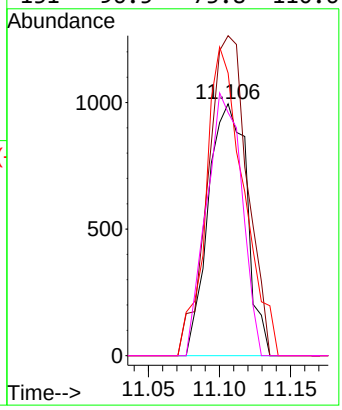




#64
Tetrachloroethene
Concen: 0.966 ug/l
RT: 11.106 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:164 Resp: 187

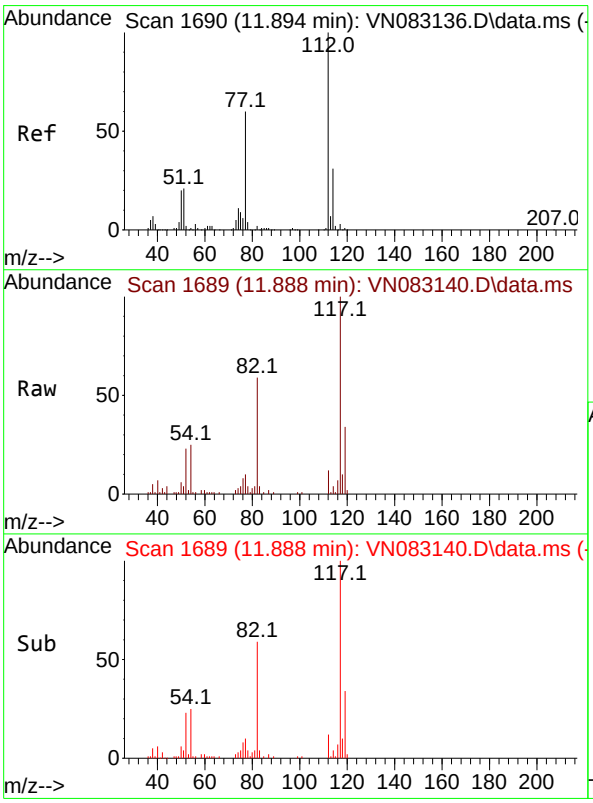
Ion	Ratio	Lower	Upper
164	100		
166	127.0	101.4	152.0
129	112.2	75.7	113.5
131	96.5	73.8	110.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

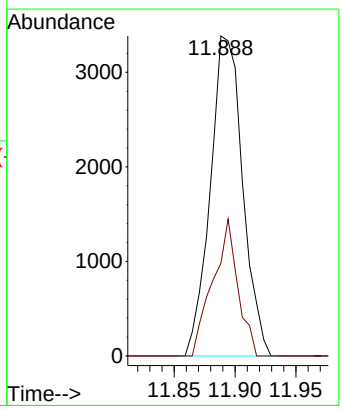
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

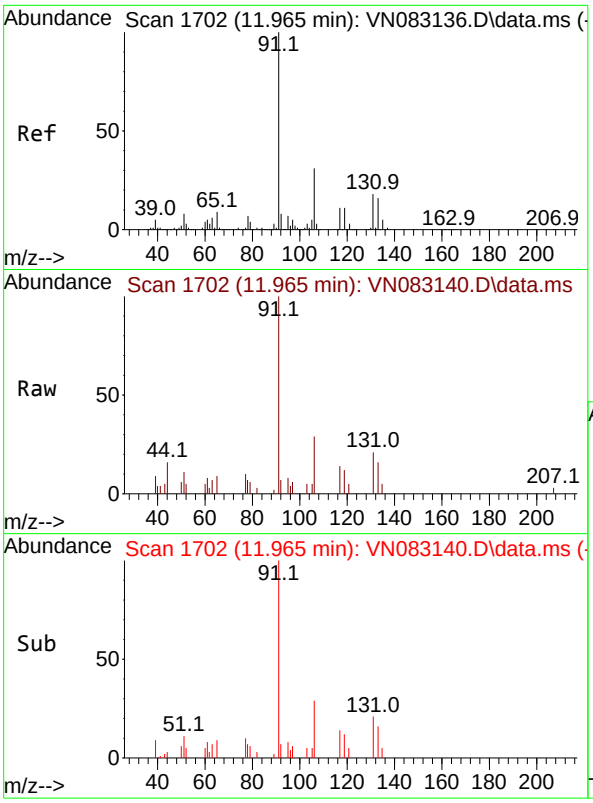


#65
Chlorobenzene
Concen: 0.968 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:112 Resp: 6259

Ion	Ratio	Lower	Upper
112	100		
114	29.0	26.2	39.2

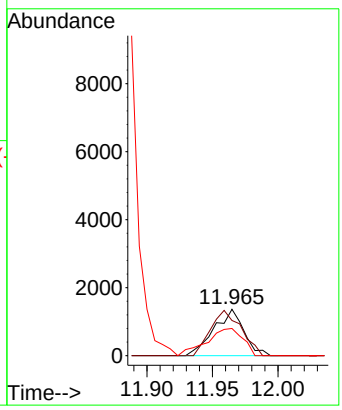




#66
1,1,1,2-Tetrachloroethane
Concen: 0.951 ug/l
RT: 11.965 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:131 Resp: 216

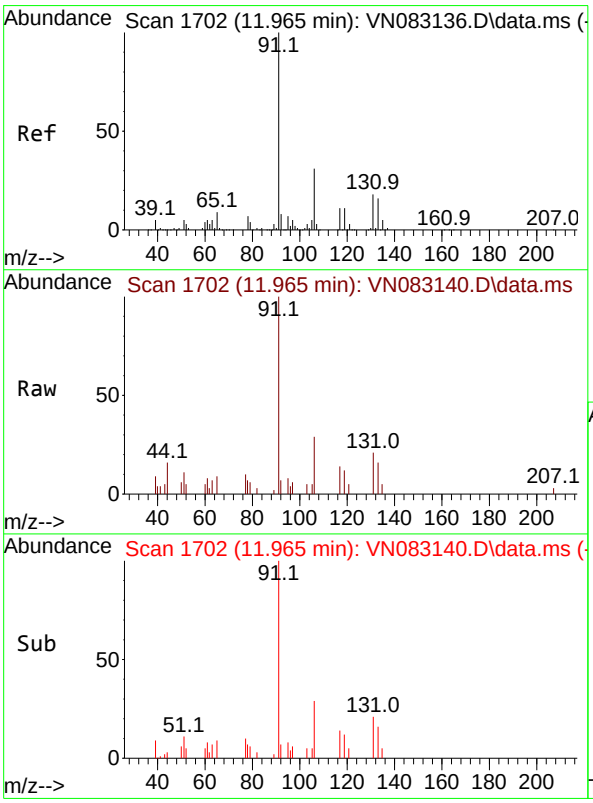
Ion	Ratio	Lower	Upper
131	100		
133	100.6	47.3	142.0
119	0.0	32.5	97.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

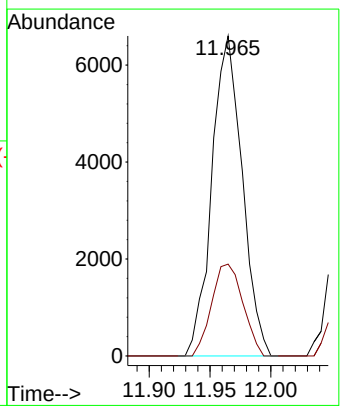
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

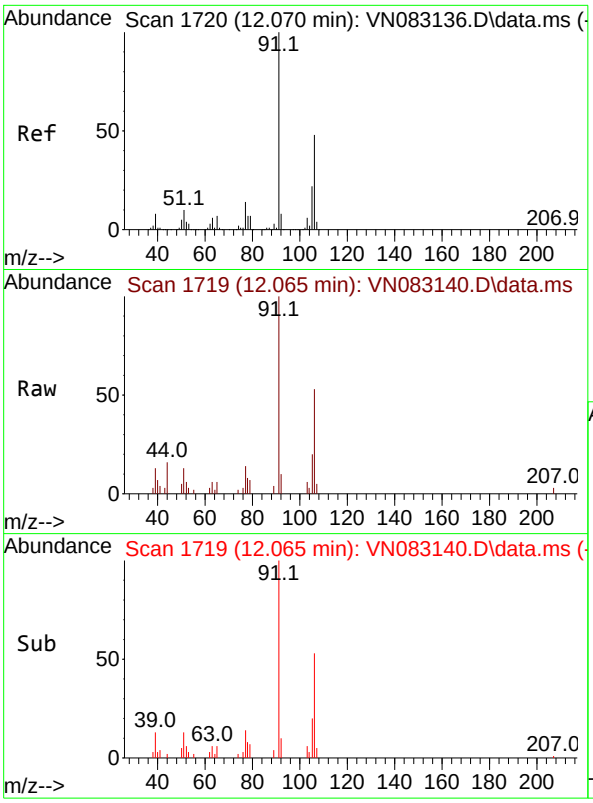


#67
Ethyl Benzene
Concen: 0.966 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 91 Resp: 11455

Ion	Ratio	Lower	Upper
91	100		
106	28.7	24.0	36.0

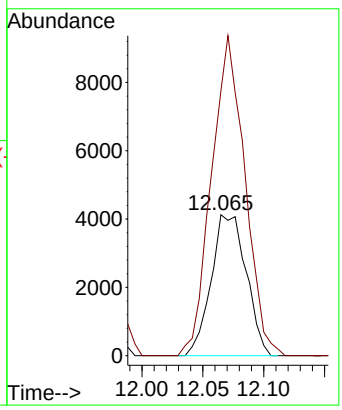




#68
m/p-Xylenes
Concen: 1.860 ug/l
RT: 12.065 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:106 Resp: 826

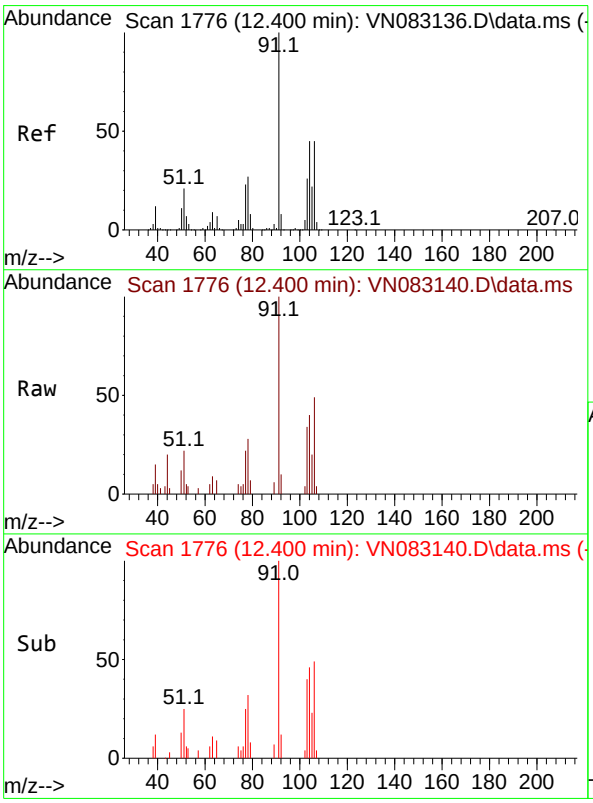
Ion	Ratio	Lower	Upper
106	100		
91	217.0	166.1	249.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

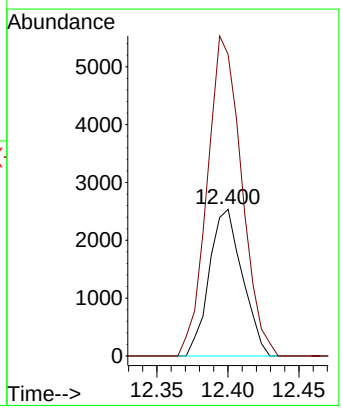
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

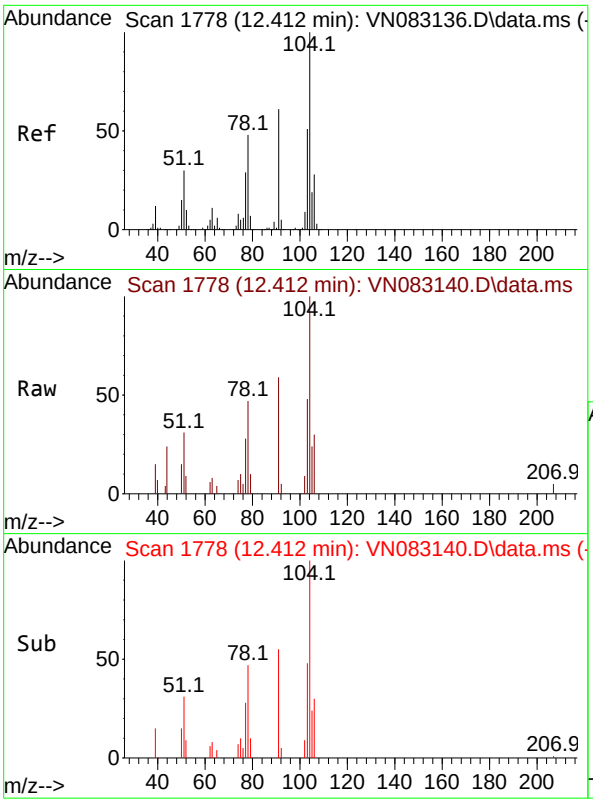


#69
o-Xylene
Concen: 0.938 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:106 Resp: 4113

Ion	Ratio	Lower	Upper
106	100		
91	226.2	111.3	333.9

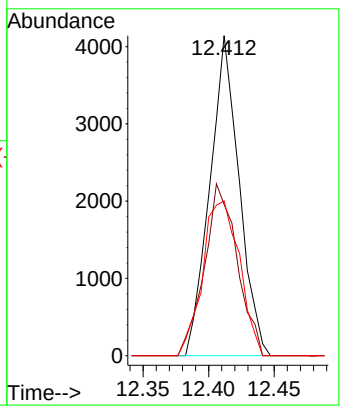




#70
Styrene
Concen: 0.875 ug/l
RT: 12.412 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:104 Resp: 641

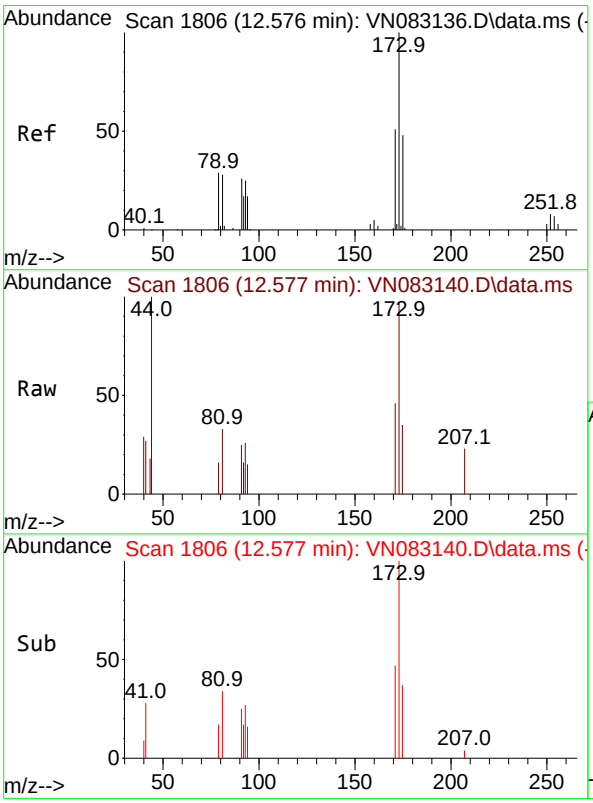
Ion	Ratio	Lower	Upper
104	100		
78	60.2	41.6	62.4
103	60.7	44.0	66.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

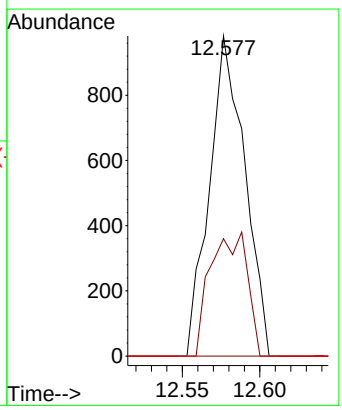
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

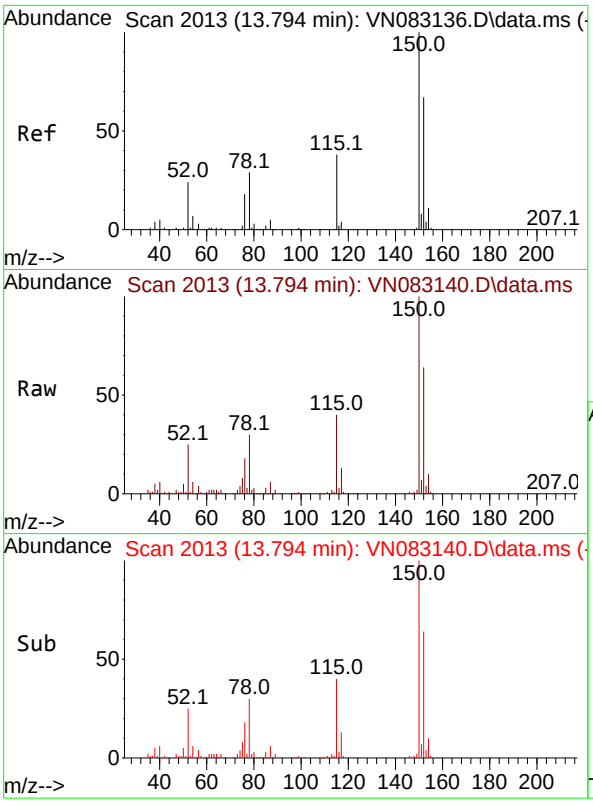


#71
Bromoform
Concen: 0.903 ug/l
RT: 12.577 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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

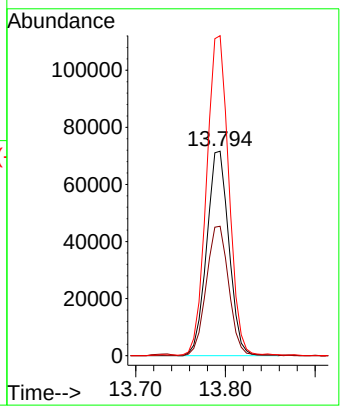




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:152 Resp: 12292

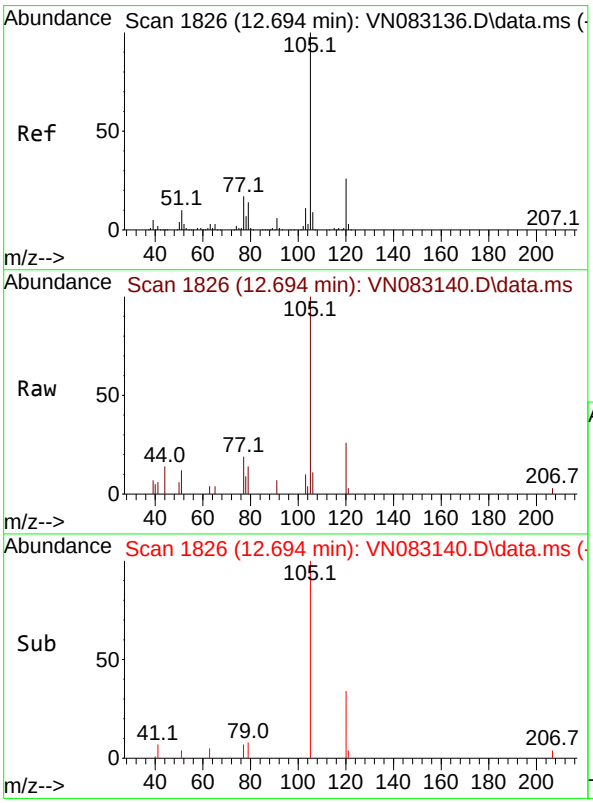
Ion	Ratio	Lower	Upper
152	100		
115	64.2	30.6	91.6
150	157.5	0.0	348.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

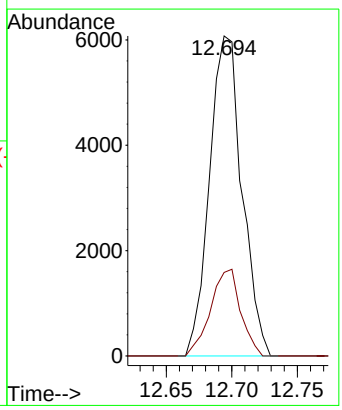
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

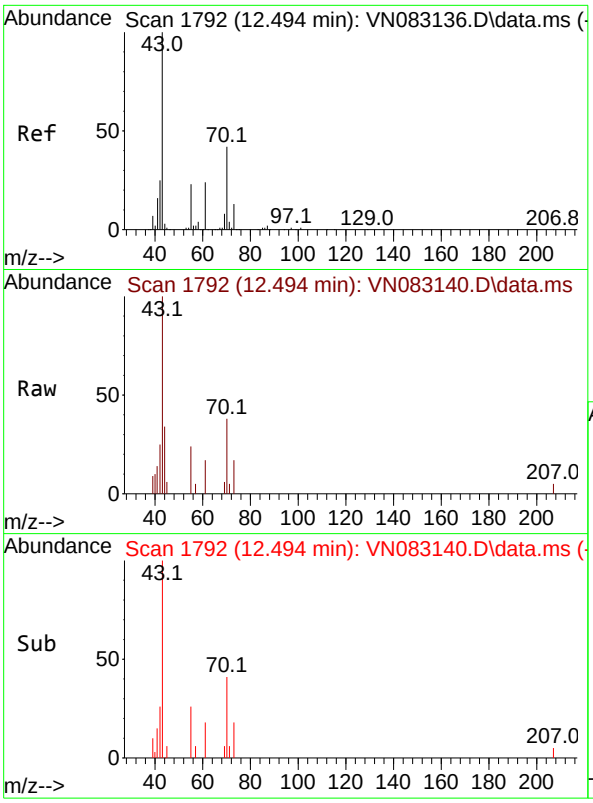


#73
Isopropylbenzene
Concen: 1.017 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:105 Resp: 10459

Ion	Ratio	Lower	Upper
105	100		
120	25.1	12.9	38.6

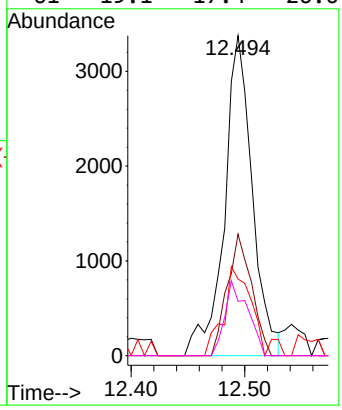




#74
N-amyl acetate
Concen: 1.144 ug/l
RT: 12.494 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 43 Resp: 575

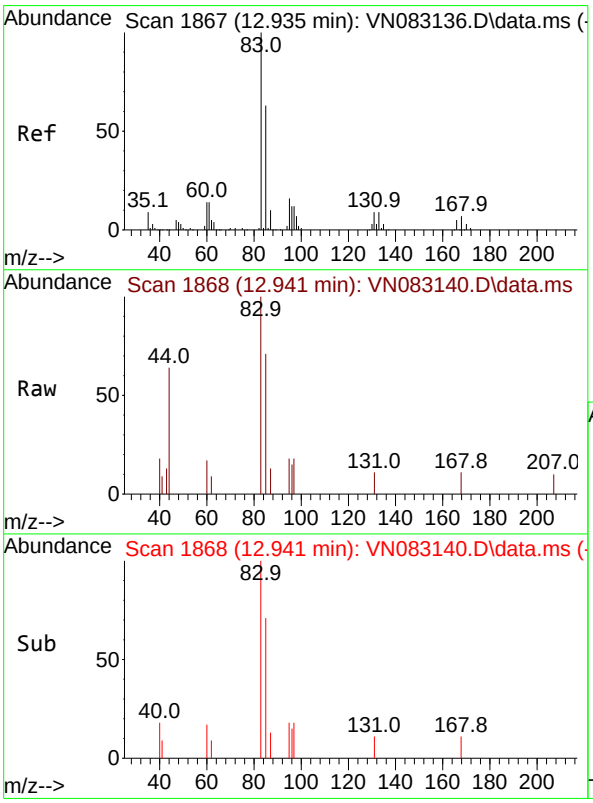
Ion	Ratio	Lower	Upper
43	100		
70	33.3	29.8	44.6
55	28.9	18.7	28.1
61	19.1	17.4	26.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

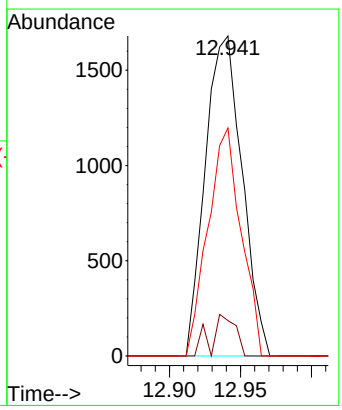
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

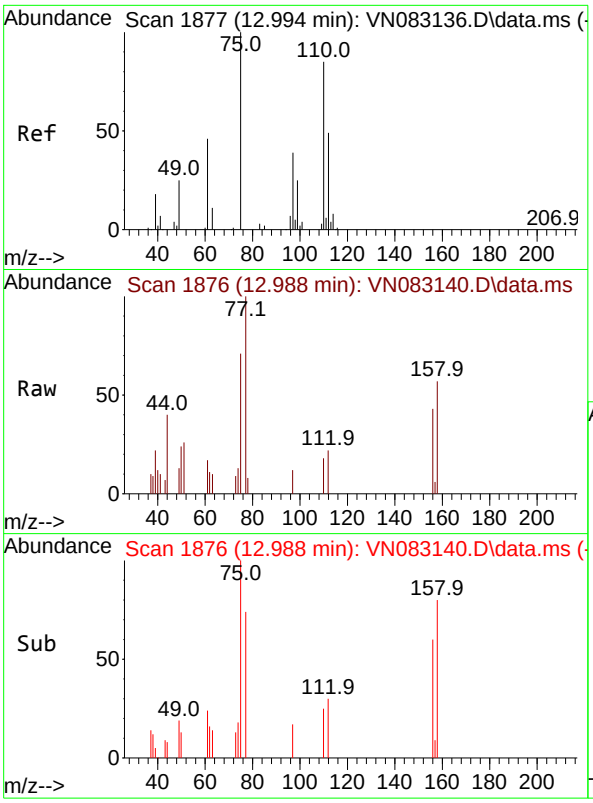


#75
1,1,2,2-Tetrachloroethane
Concen: 1.043 ug/l
RT: 12.941 min Scan# 1868
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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

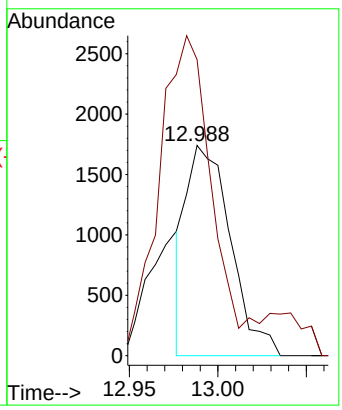
Tgt Ion: 75 Resp: 303

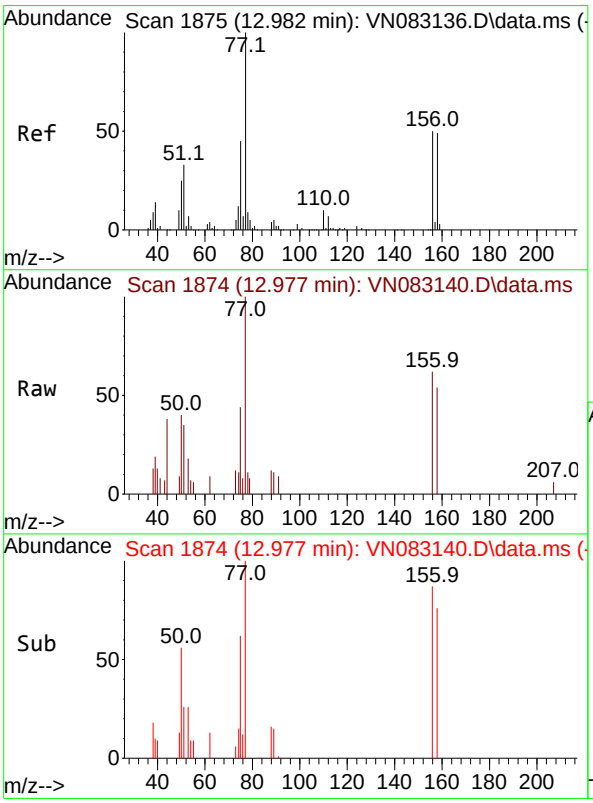
Ion	Ratio	Lower	Upper
75	100		
77	184.1	110.9	332.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

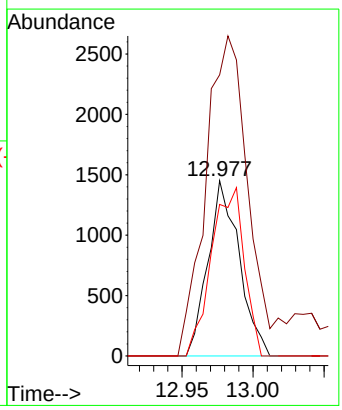


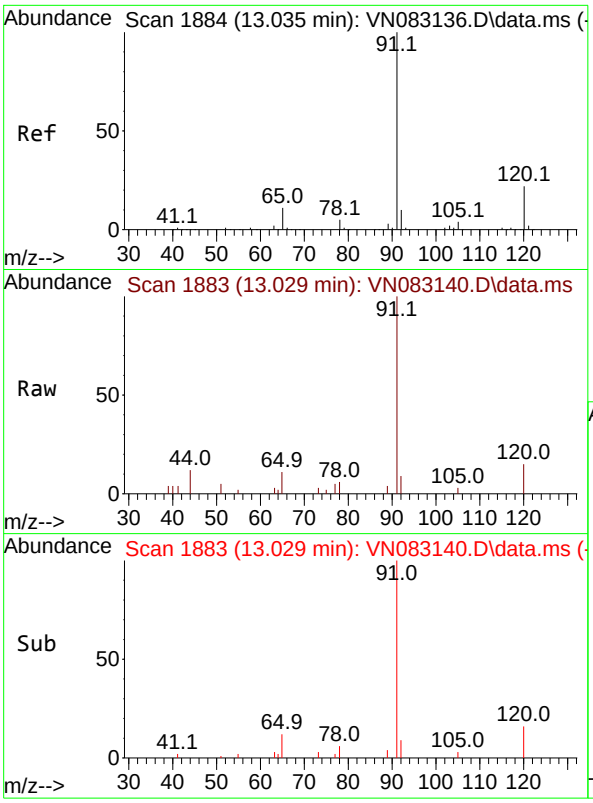


#77
Bromobenzene
Concen: 0.969 ug/l
RT: 12.977 min Scan# 1874
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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

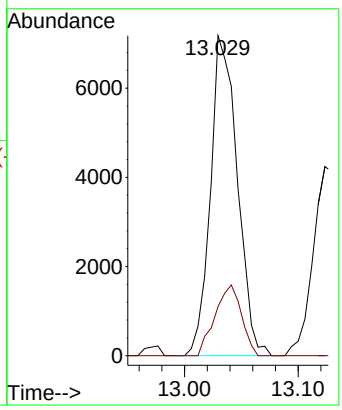
Tgt Ion: 91 Resp: 1180

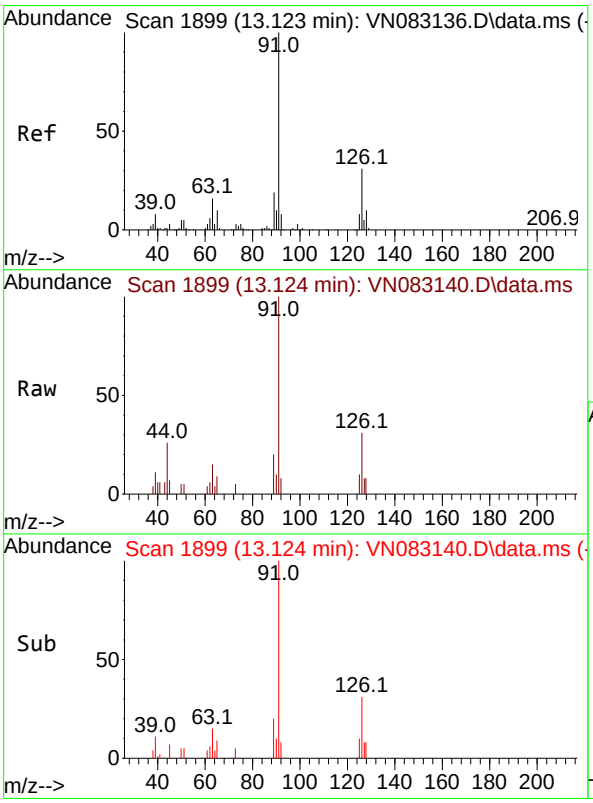
Ion	Ratio	Lower	Upper
91	100		
120	21.7	10.9	32.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

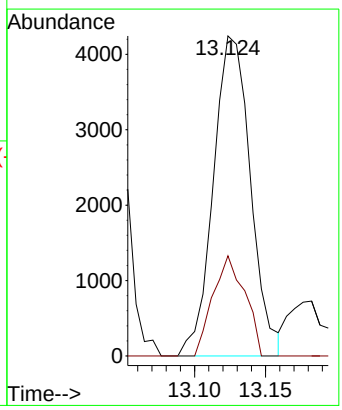


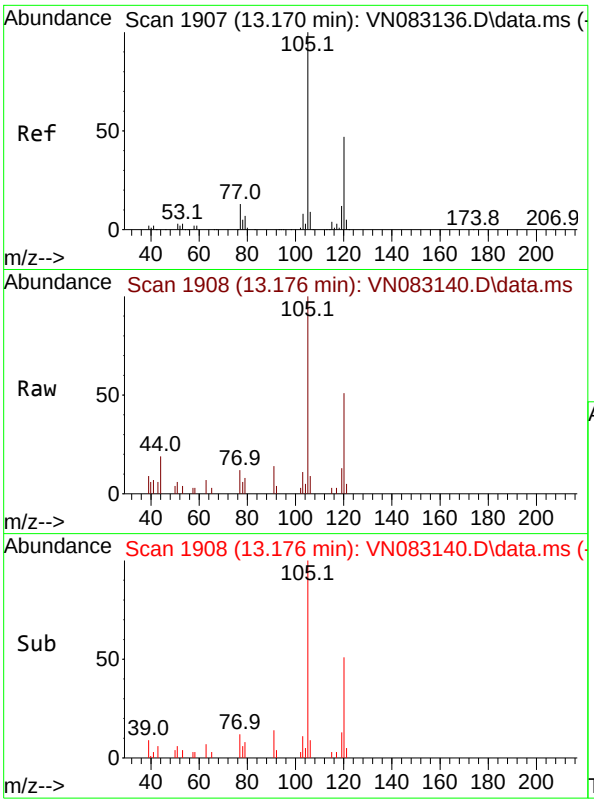


#79
2-Chlorotoluene
Concen: 1.031 ug/l
RT: 13.124 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 91 Resp: 7735

Ion	Ratio	Lower	Upper
91	100		
126	26.9	16.2	48.6

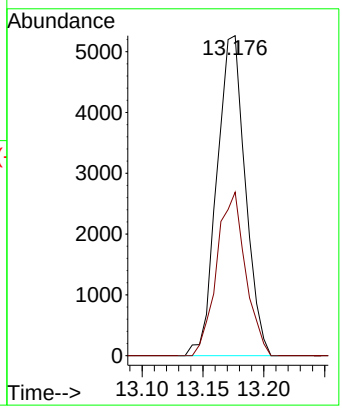




#80
1,3,5-Trimethylbenzene
Concen: 0.994 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:105 Resp: 855

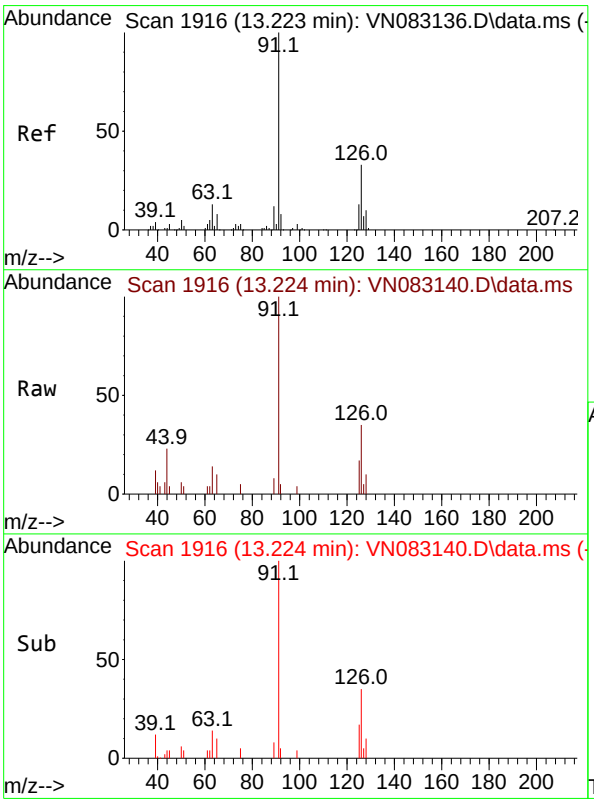
Ion	Ratio	Lower	Upper
105	100		
120	51.7	24.3	72.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

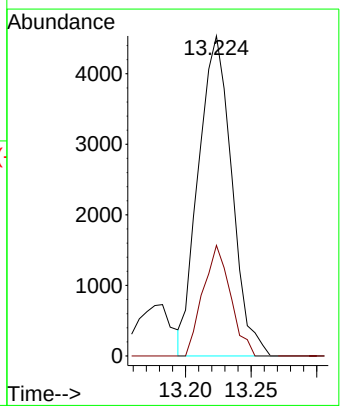
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

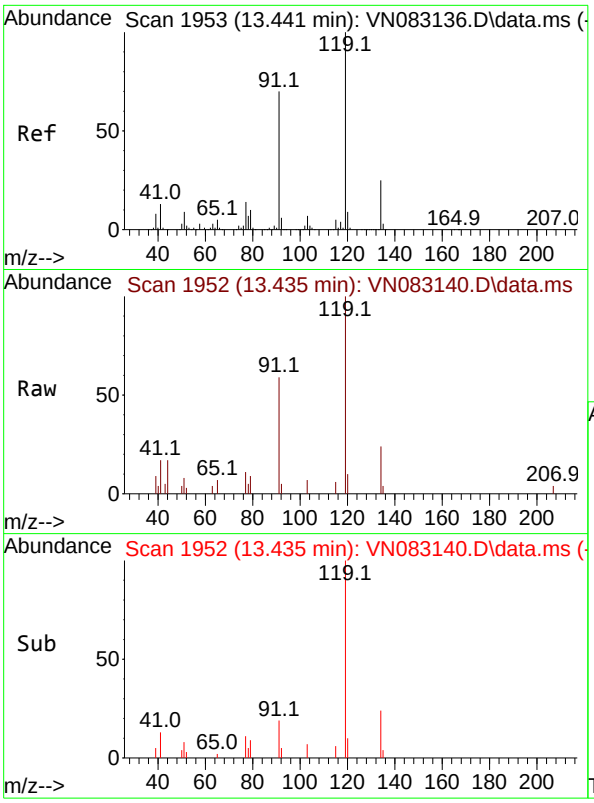


#82
4-Chlorotoluene
Concen: 1.065 ug/l
RT: 13.224 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 91 Resp: 8018

Ion	Ratio	Lower	Upper
91	100		
126	28.6	16.2	48.6

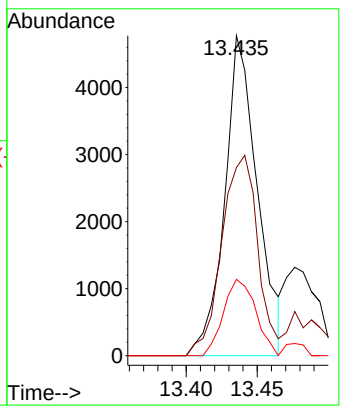




#83
tert-Butylbenzene
Concen: 1.001 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:119 Resp: 762

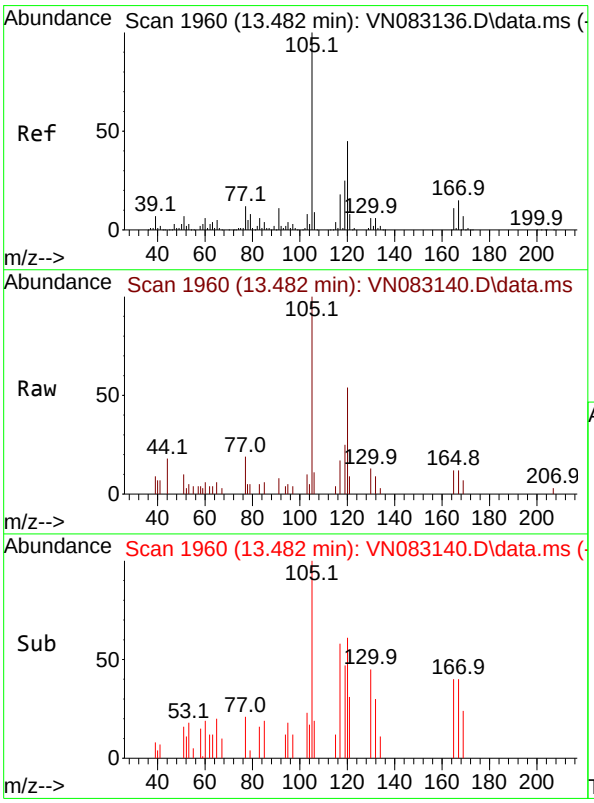
Ion	Ratio	Lower	Upper
119	100		
91	69.2	35.0	105.1
134	23.5	13.3	39.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

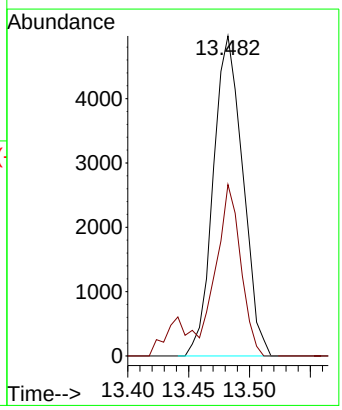
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

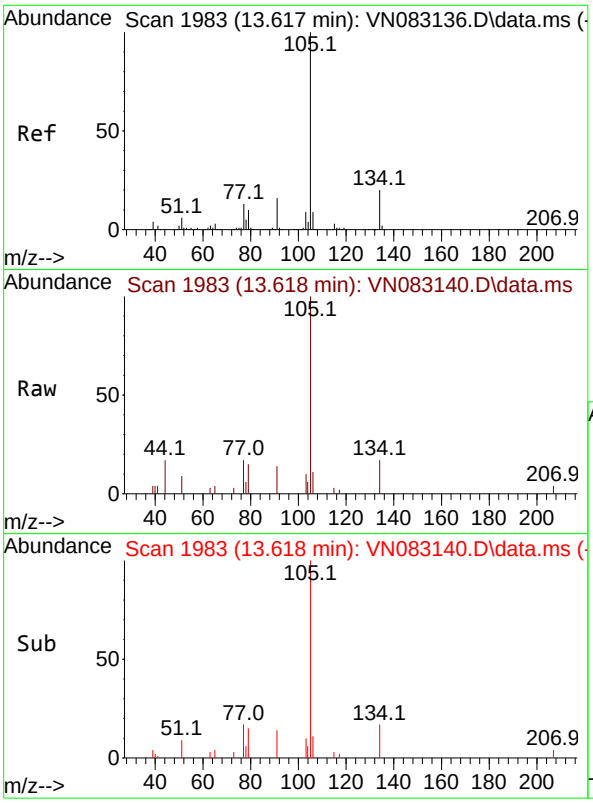


#84
1,2,4-Trimethylbenzene
Concen: 0.968 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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

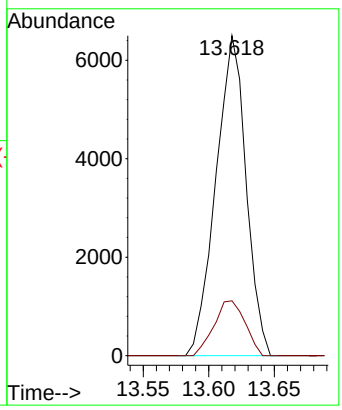
Tgt Ion:105 Resp: 1041

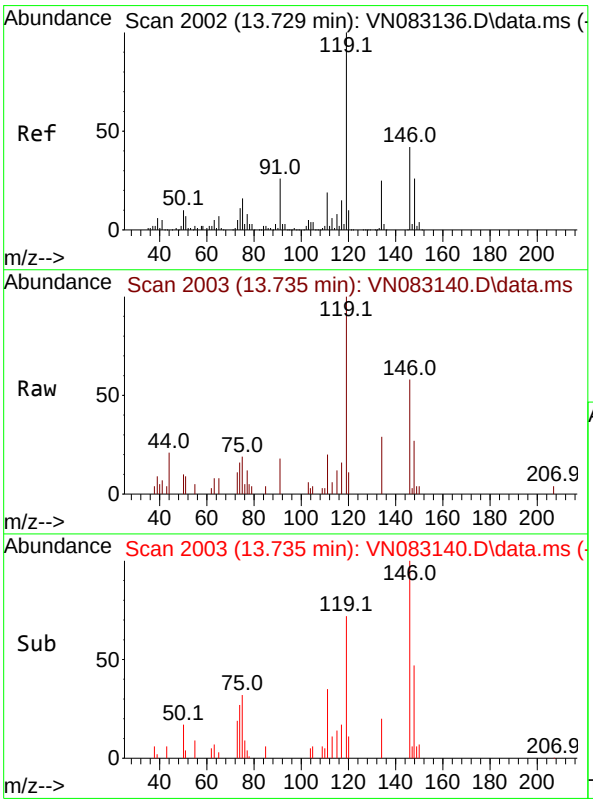
Ion	Ratio	Lower	Upper
105	100		
134	17.7	9.8	29.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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

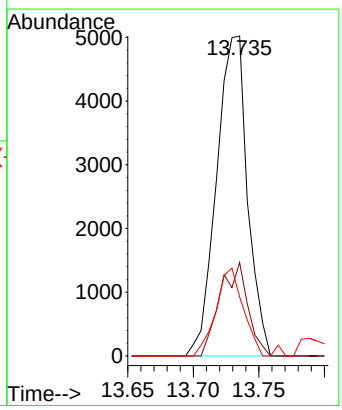


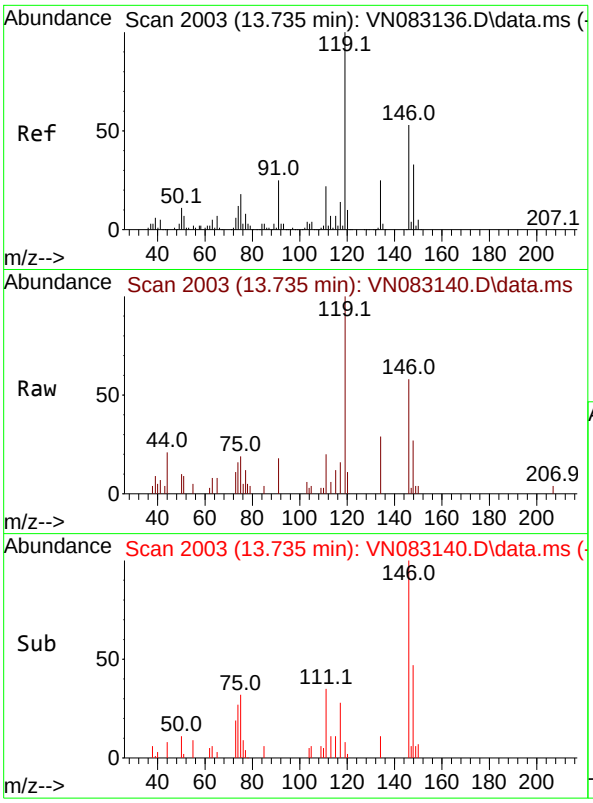


#86
p-Isopropyltoluene
Concen: 0.960 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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

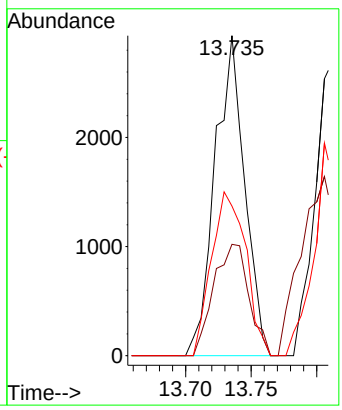




#87
1,3-Dichlorobenzene
Concen: 1.070 ug/l
RT: 13.735 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:146 Resp: 459

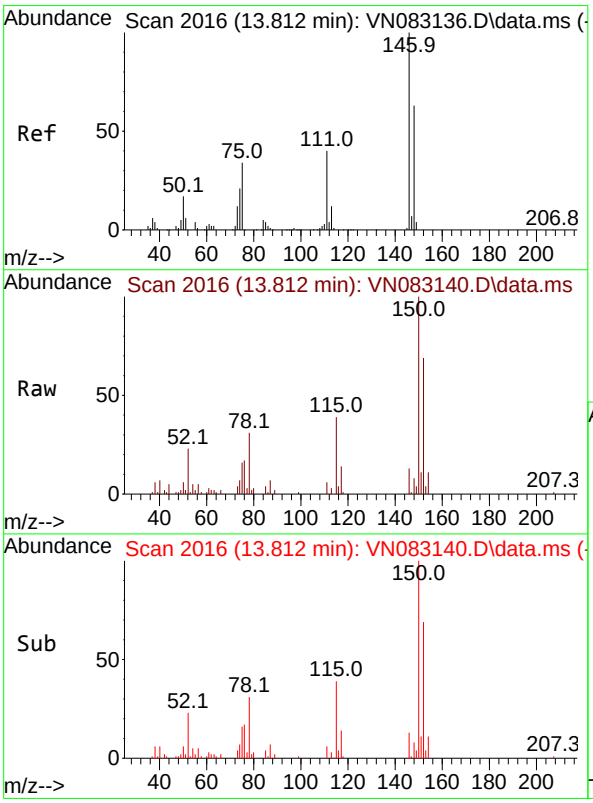
Ion	Ratio	Lower	Upper
146	100		
111	41.5	20.6	61.9
148	59.5	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

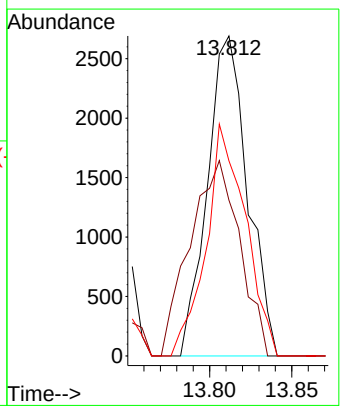
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

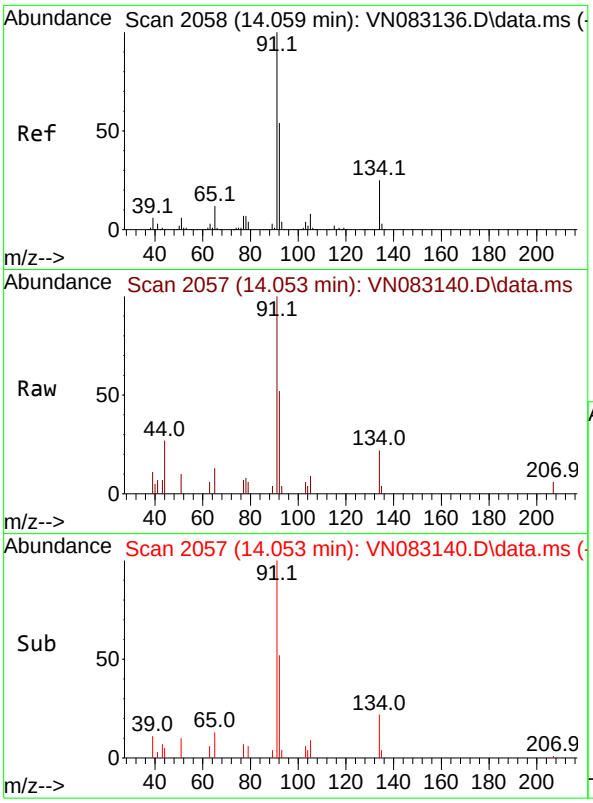


#88
1,4-Dichlorobenzene
Concen: 1.057 ug/l m
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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

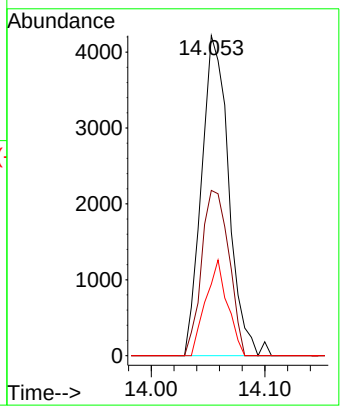




#89
n-Butylbenzene
Concen: 0.942 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 91 Resp: 700

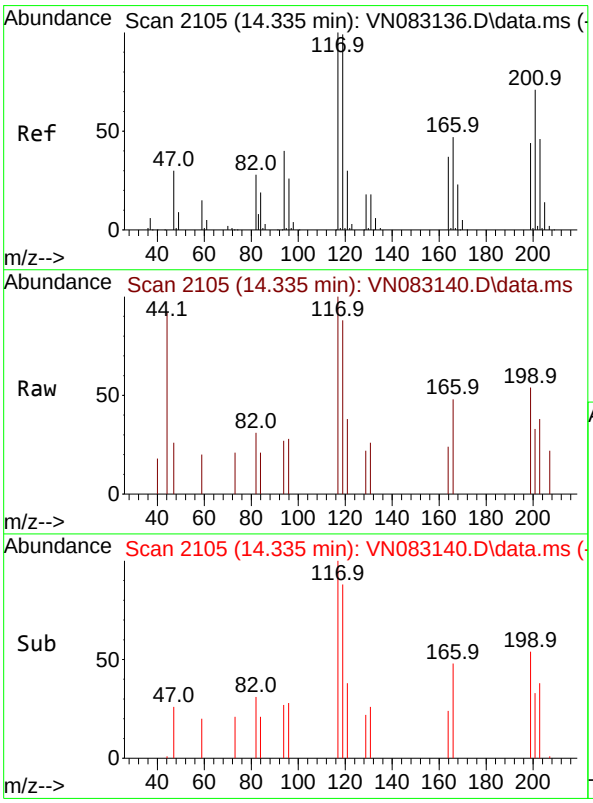
Ion	Ratio	Lower	Upper
91	100		
92	52.0	26.1	78.3
134	24.1	12.1	36.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

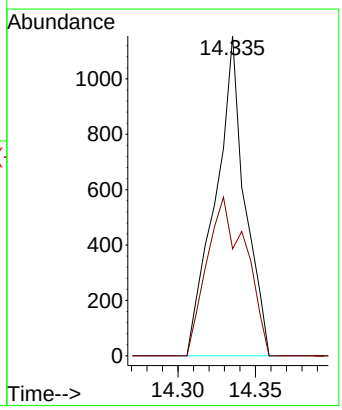
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

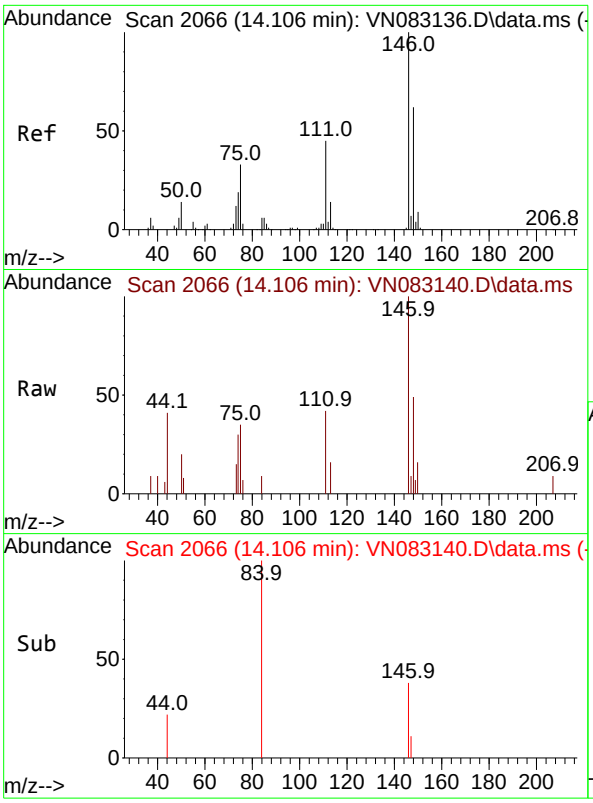


#90
Hexachloroethane
Concen: 0.918 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:117 Resp: 1524

Ion	Ratio	Lower	Upper
117	100		
201	65.7	35.8	107.3

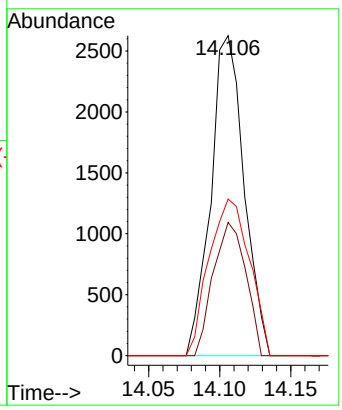




#91
1,2-Dichlorobenzene
Concen: 1.029 ug/l
RT: 14.106 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:146 Resp: 427

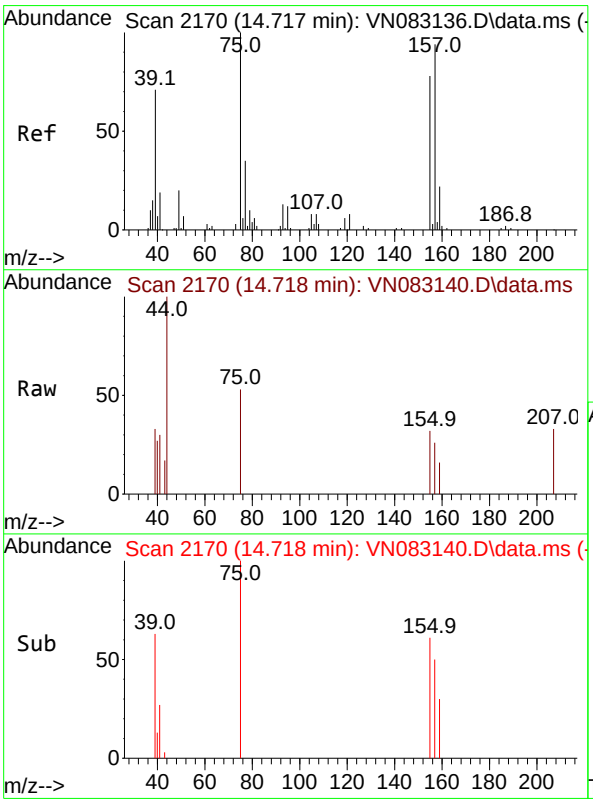
Ion	Ratio	Lower	Upper
146	100		
111	40.7	21.4	64.2
148	59.6	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

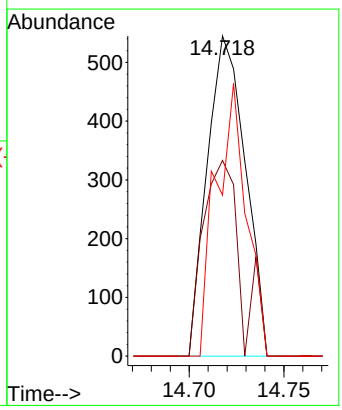
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

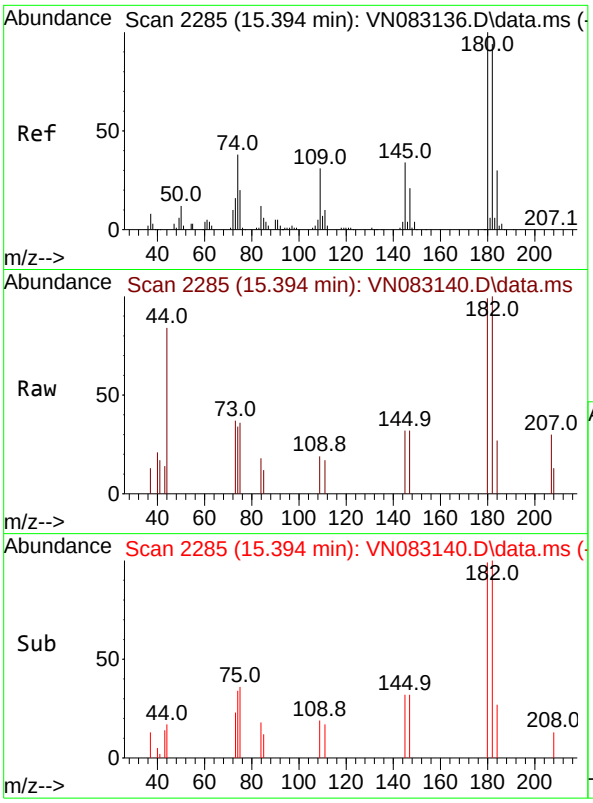


#92
1,2-Dibromo-3-Chloropropane
Concen: 1.081 ug/l
RT: 14.718 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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

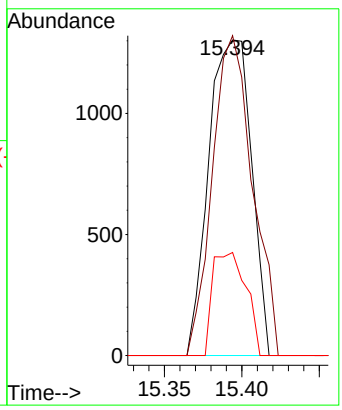




#93
1,2,4-Trichlorobenzene
Concen: 1.070 ug/l
RT: 15.394 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:180 Resp: 249

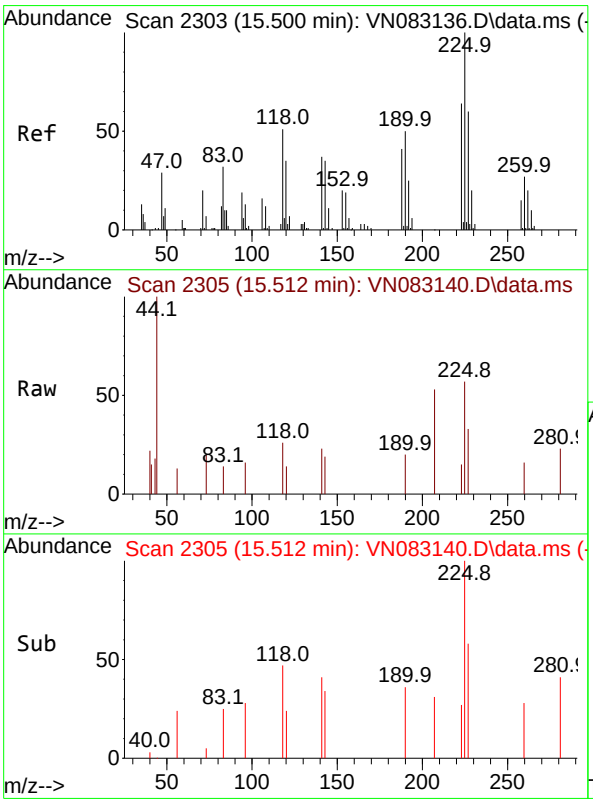
Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.3	141.8
145	25.6	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

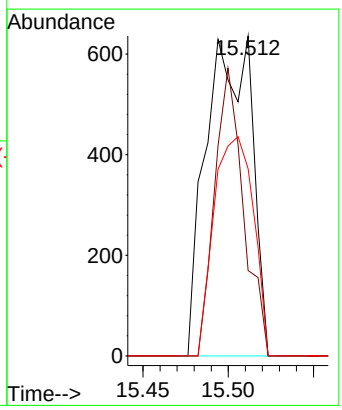
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

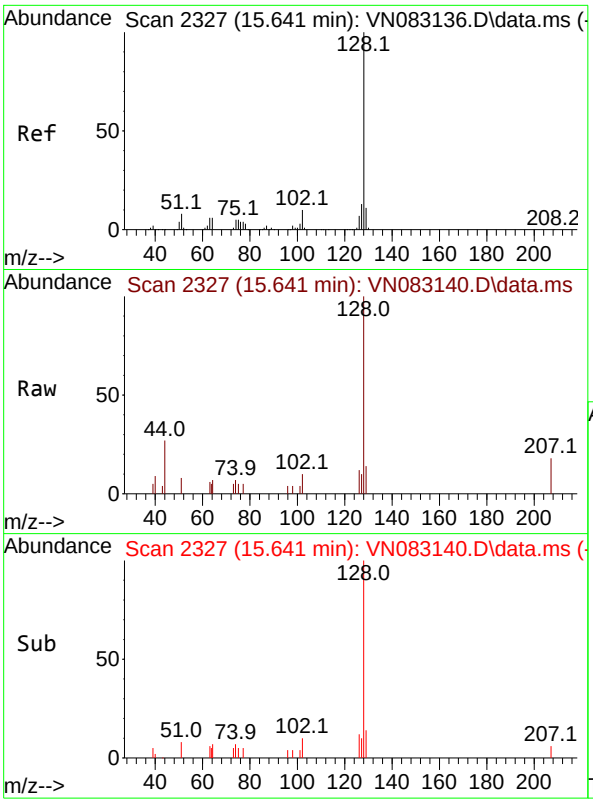


#94
Hexachlorobutadiene
Concen: 1.140 ug/l
RT: 15.512 min Scan# 2305
Delta R.T. 0.012 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

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

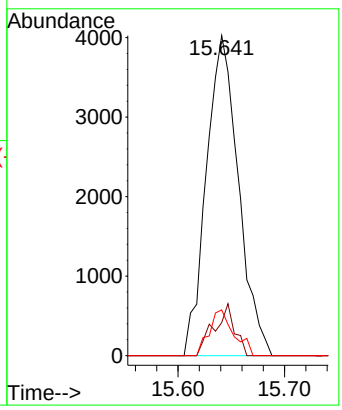




#95
Naphthalene
Concen: 1.021 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:128 Resp: 843

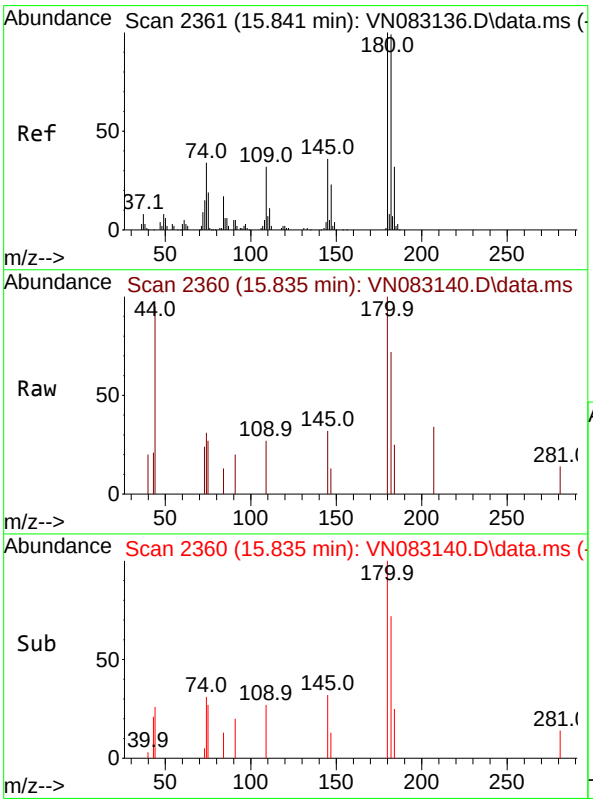
Ion	Ratio	Lower	Upper
128	100		
127	10.4	10.6	16.0
129	10.9	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

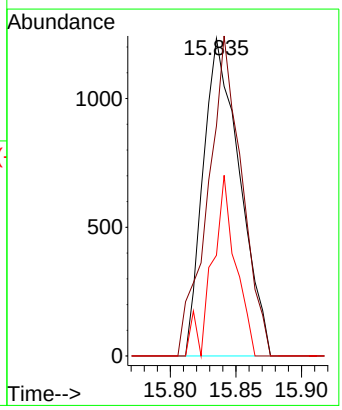
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#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



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

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

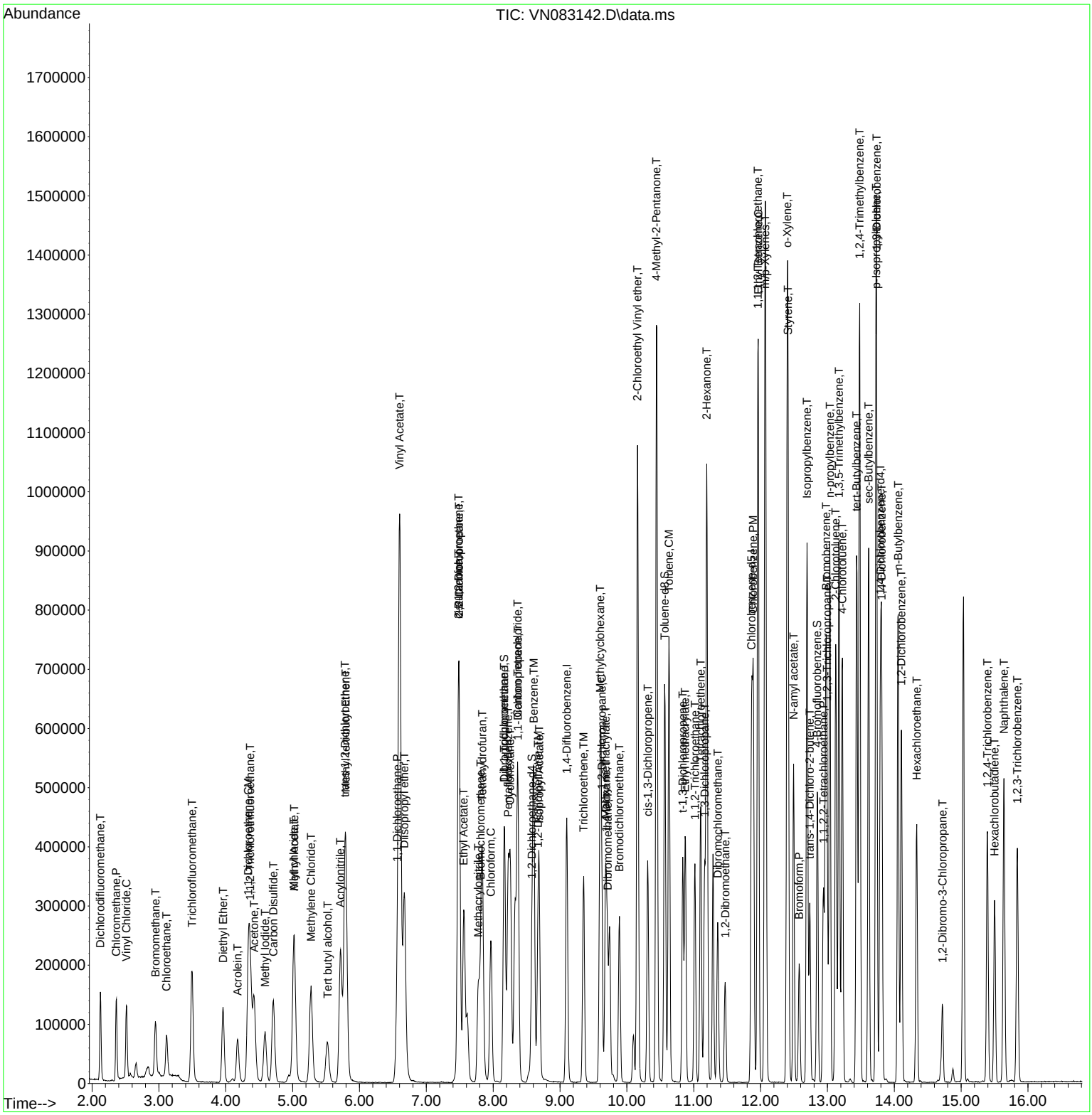
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083142.D
Acq On : 07 Aug 2024 14:49
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

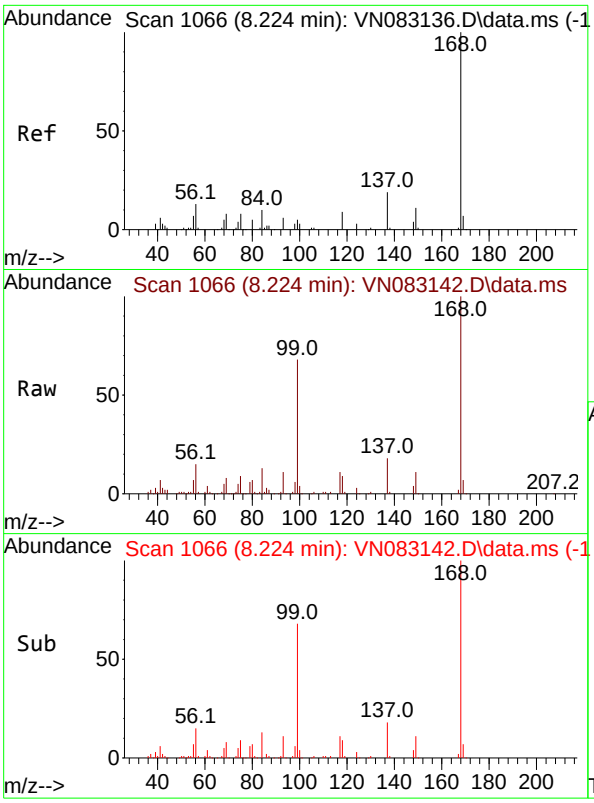
Quant Time: Aug 08 06:35:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

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

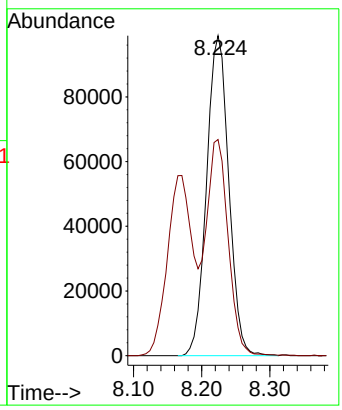




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:168 Resp: 22368

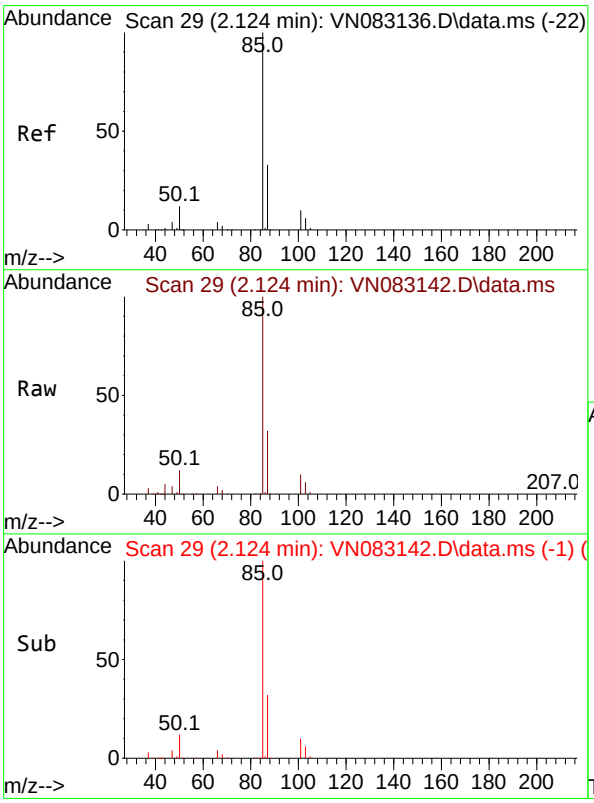
Ion	Ratio	Lower	Upper
168	100		
99	67.4	48.2	72.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

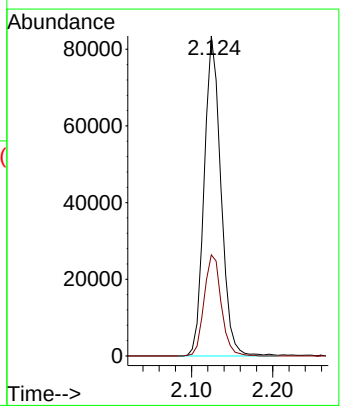
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

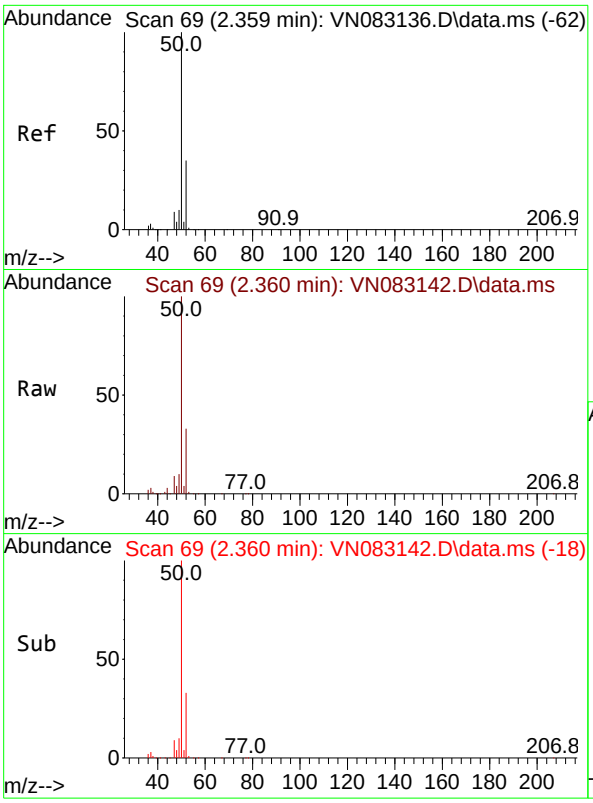


#2
Dichlorodifluoromethane
Concen: 47.102 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 85 Resp: 119481

Ion	Ratio	Lower	Upper
85	100		
87	31.6	15.7	47.0

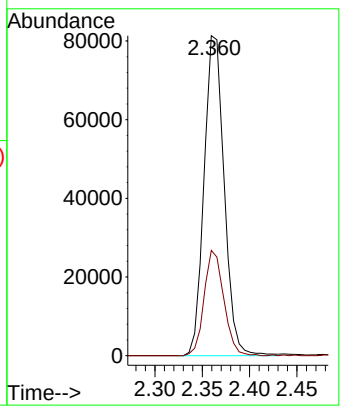




#3
Chloromethane
Concen: 46.238 ug/l
RT: 2.360 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 50 Resp: 12008

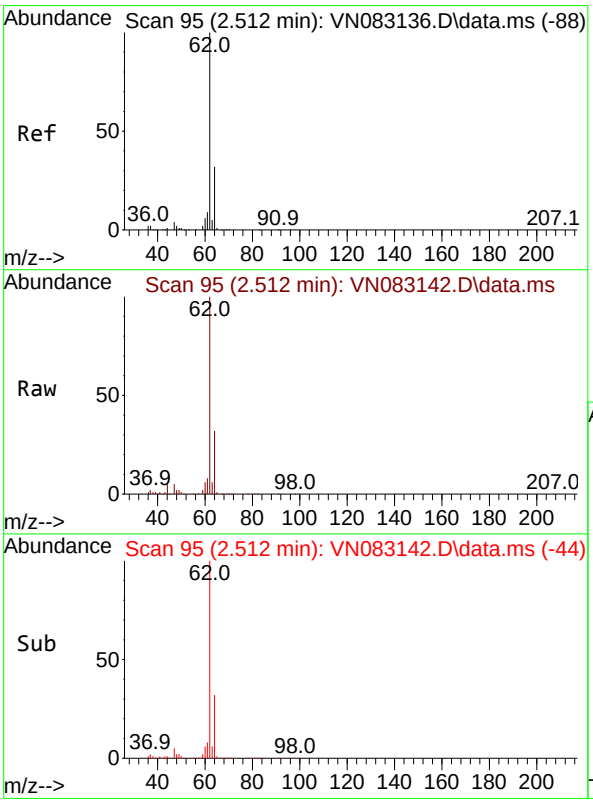
Ion	Ratio	Lower	Upper
50	100		
52	32.9	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

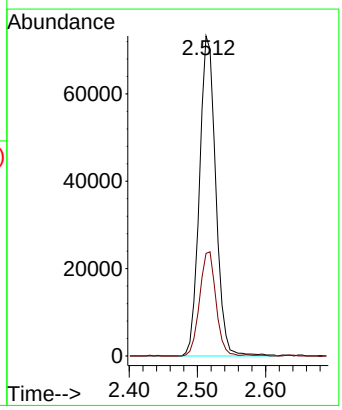
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

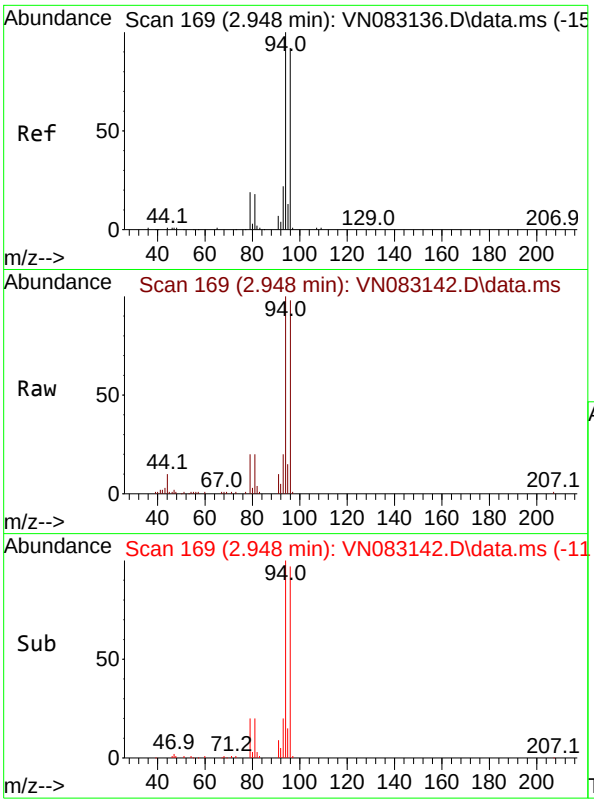


#4
Vinyl Chloride
Concen: 45.937 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 62 Resp: 121730

Ion	Ratio	Lower	Upper
62	100		
64	32.0	25.0	37.6

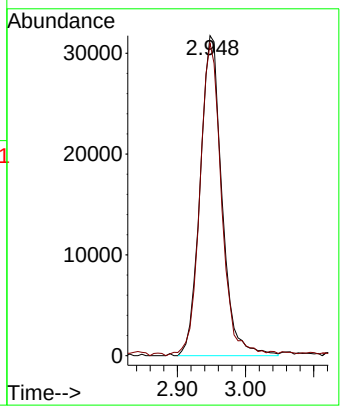




#5
Bromomethane
Concen: 42.984 ug/l
RT: 2.948 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 94 Resp: 7067

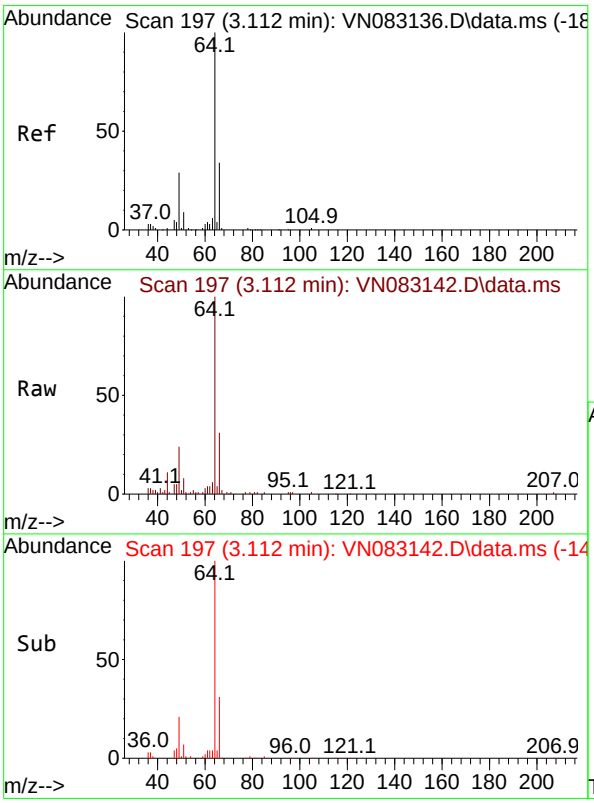
Ion	Ratio	Lower	Upper
94	100		
96	96.9	78.0	117.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

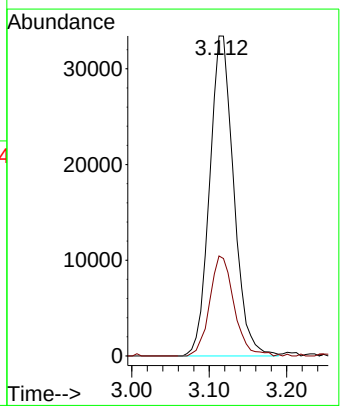
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

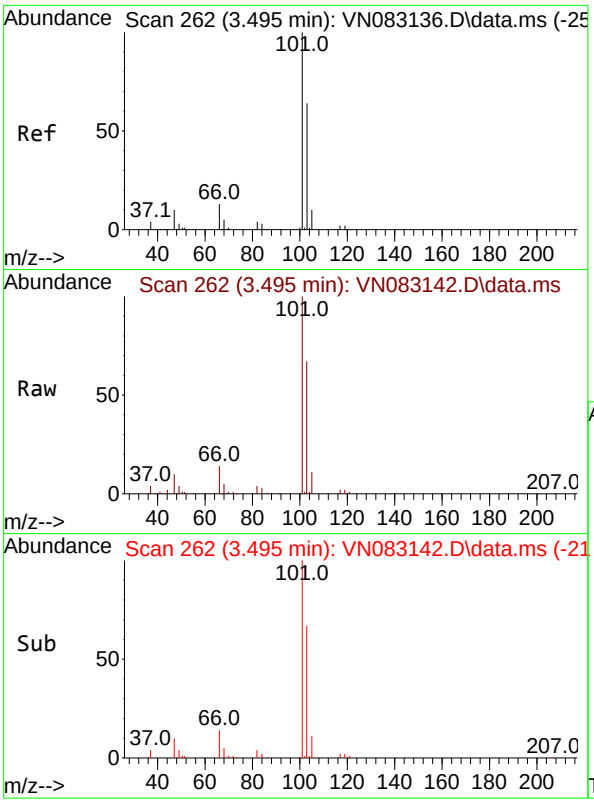


#6
Chloroethane
Concen: 43.725 ug/l
RT: 3.112 min Scan# 197
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

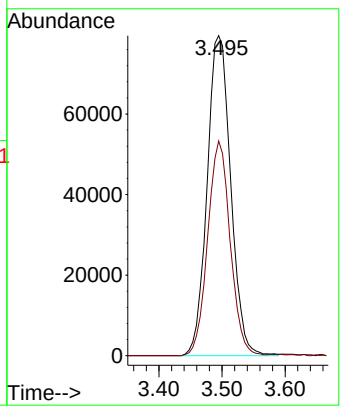
Tgt Ion:101 Resp: 20629

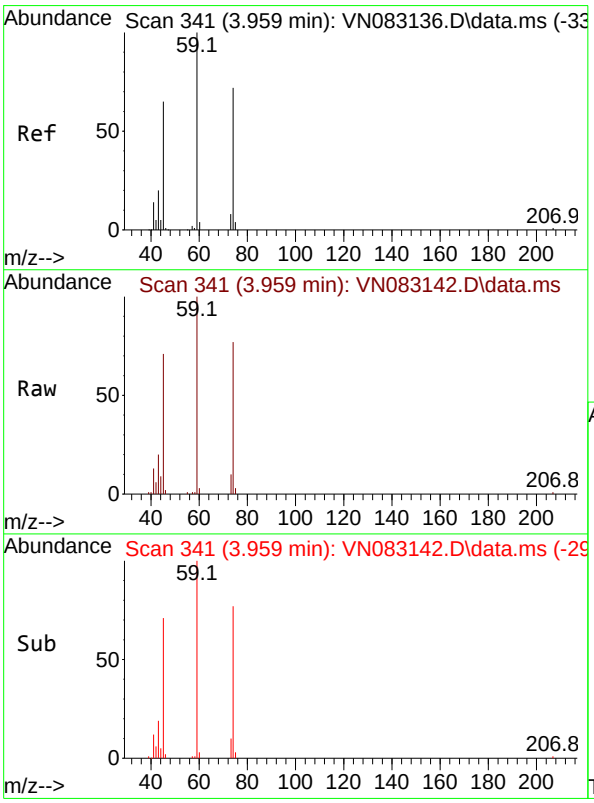
Ion	Ratio	Lower	Upper
101	100		
103	67.1	52.7	79.1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

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

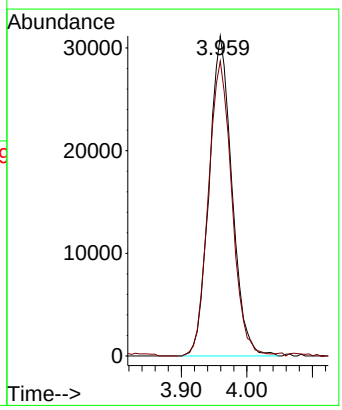


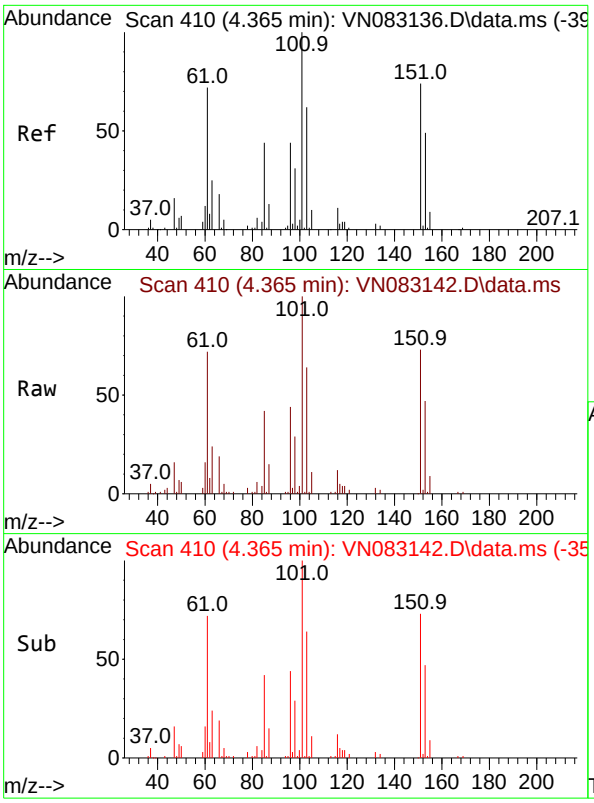


#8
Diethyl Ether
Concen: 46.259 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 74 Resp: 75355

Ion	Ratio	Lower	Upper
74	100		
45	94.7	55.5	166.3

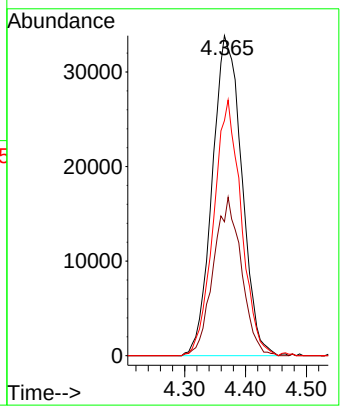




#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.176 ug/l
RT: 4.365 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:101 Resp: 11386

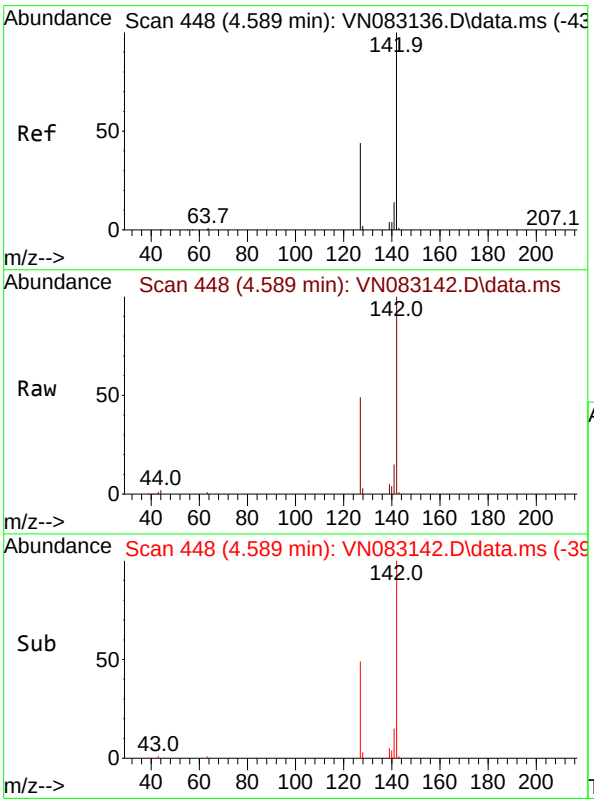
Ion	Ratio	Lower	Upper
101	100		
85	47.0	38.3	57.5
151	75.1	59.3	88.9



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

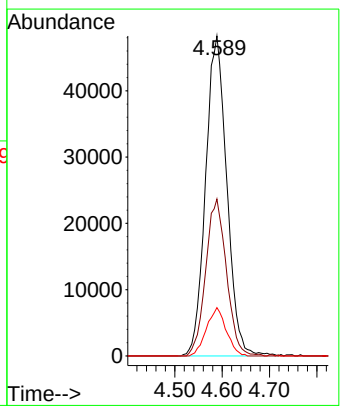
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

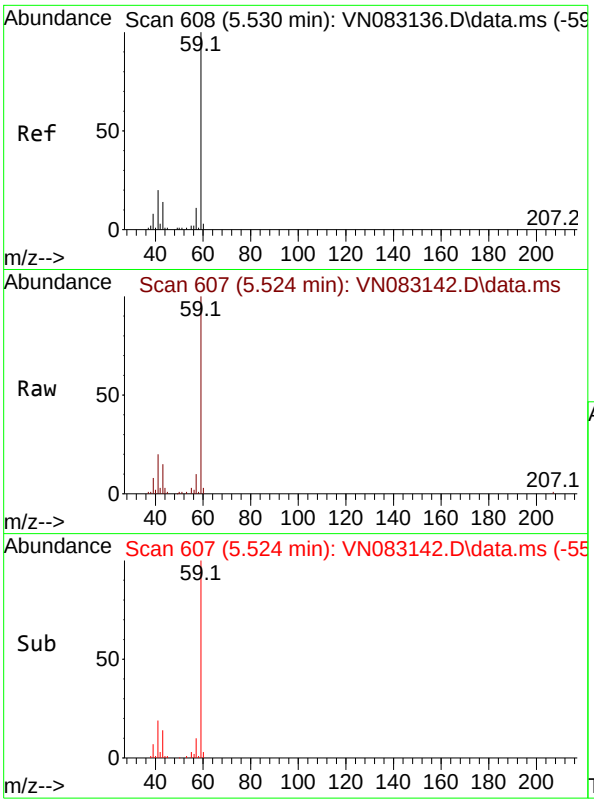


#10
Methyl Iodide
Concen: 47.349 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

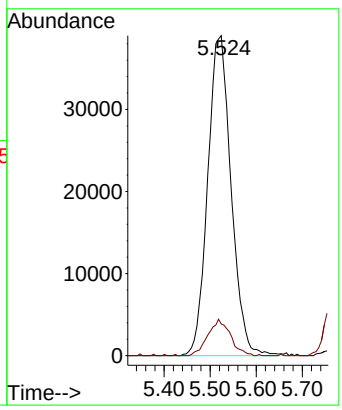




#11
Tert butyl alcohol
Concen: 208.135 ug/l
RT: 5.524 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 59 Resp: 13771

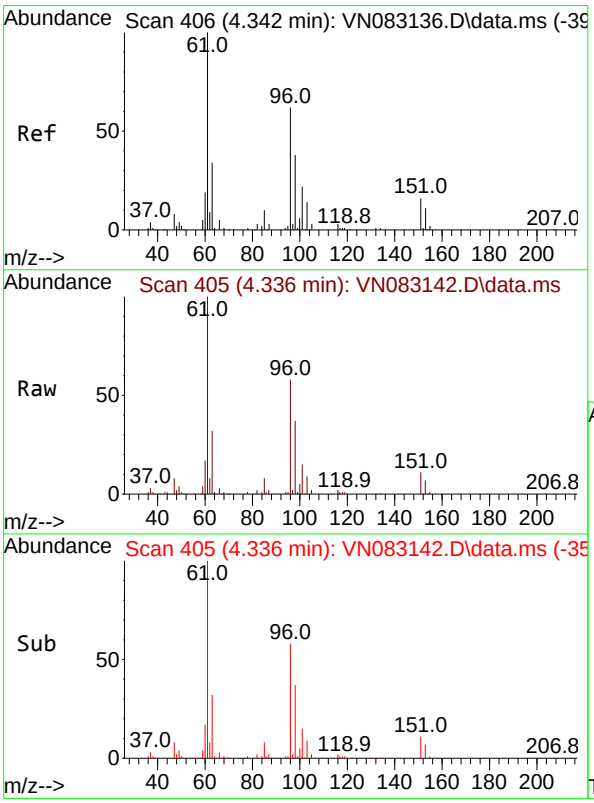
Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.9	13.3



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

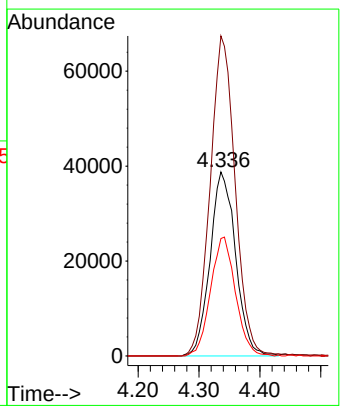
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

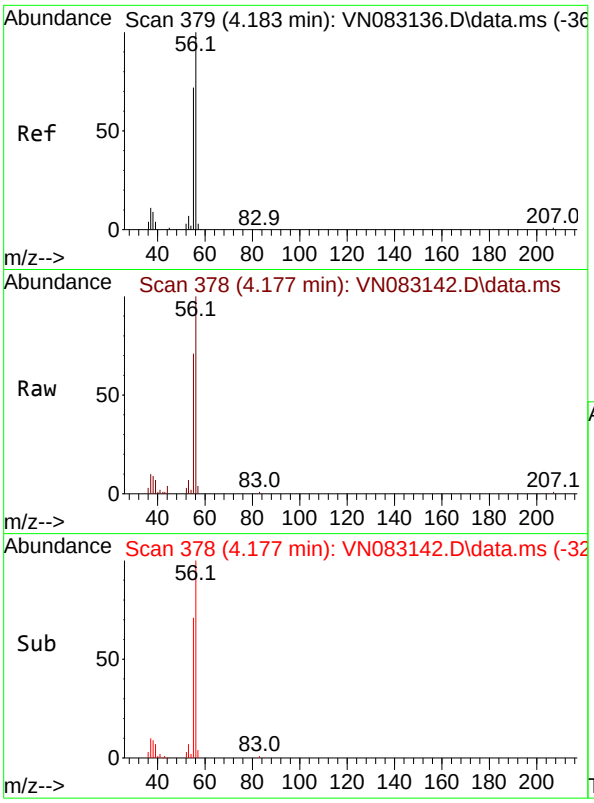


#12
1,1-Dichloroethene
Concen: 45.562 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

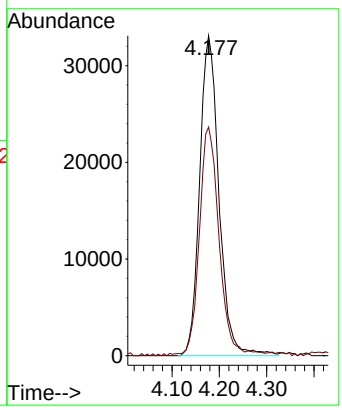




#13
Acrolein
Concen: 217.571 ug/l
RT: 4.177 min Scan# 3
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 56 Resp: 9382

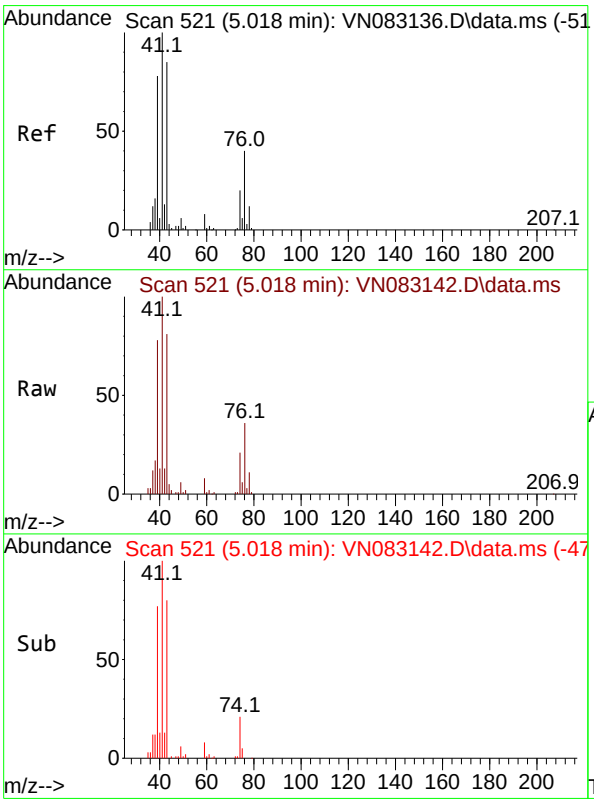
Ion	Ratio	Lower	Upper
56	100		
55	73.1	56.4	84.6



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

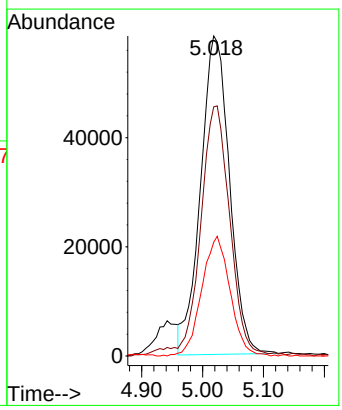
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

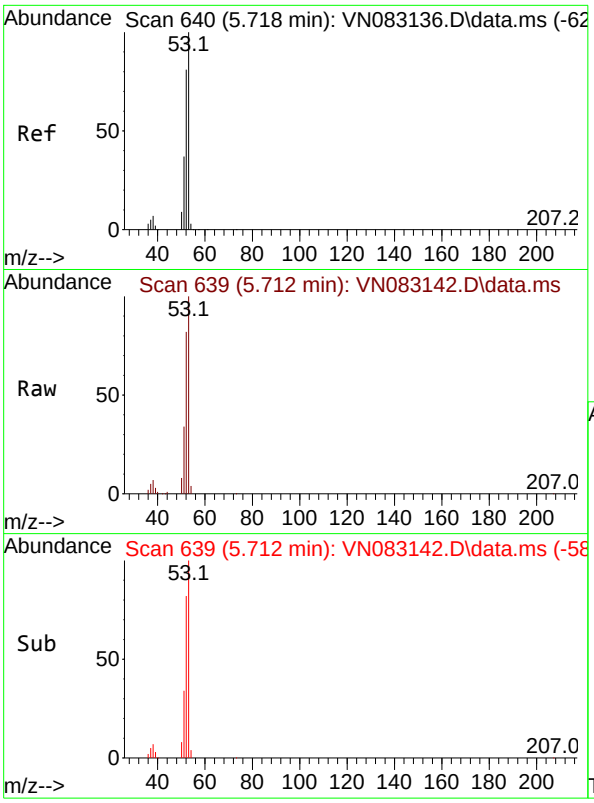


#14
Allyl chloride
Concen: 41.173 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

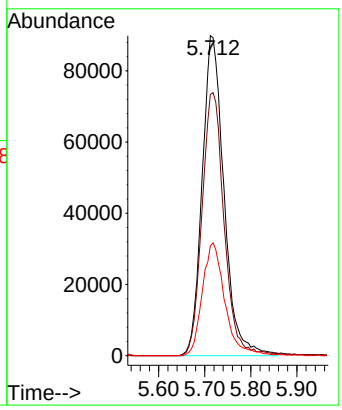
Tgt Ion: 53 Resp: 29659

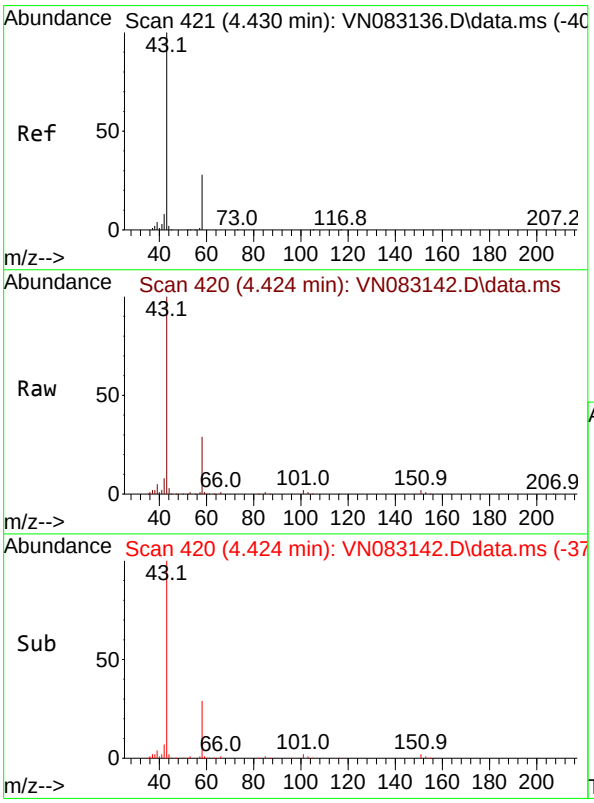
Ion	Ratio	Lower	Upper
53	100		
52	82.9	66.6	100.0
51	36.5	30.1	45.1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

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

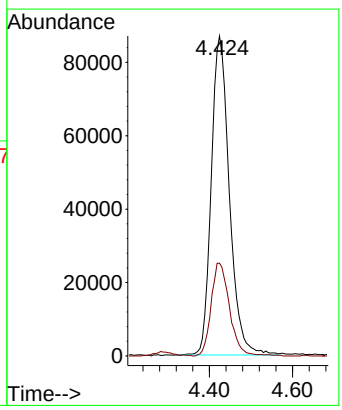


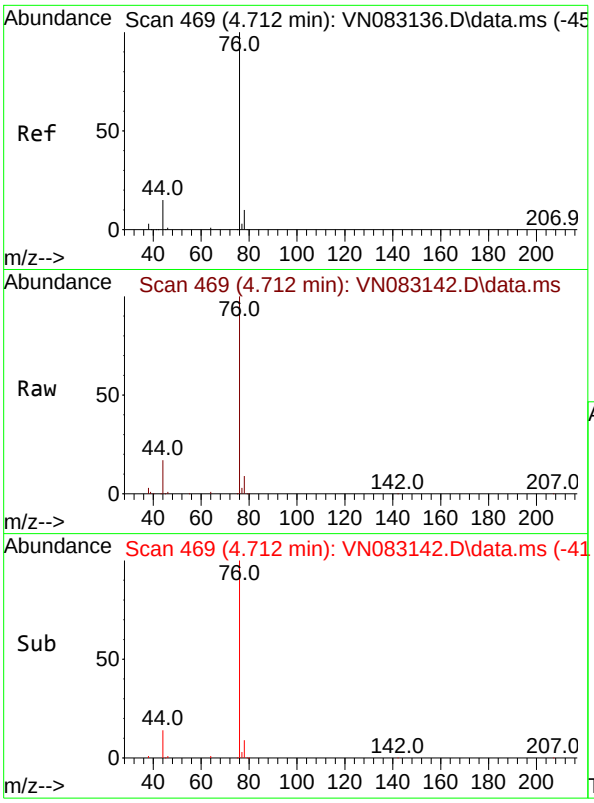


#16
Acetone
Concen: 210.840 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 43 Resp: 262677

Ion	Ratio	Lower	Upper
43	100		
58	28.9	21.8	32.6

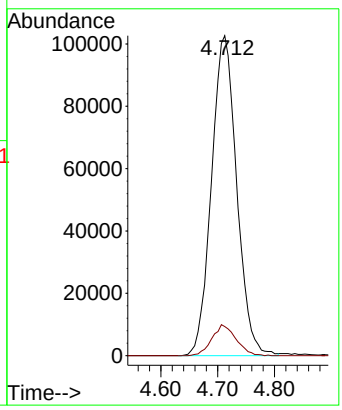




#17
Carbon Disulfide
Concen: 43.689 ug/l
RT: 4.712 min Scan# 4(
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 76 Resp: 31698(

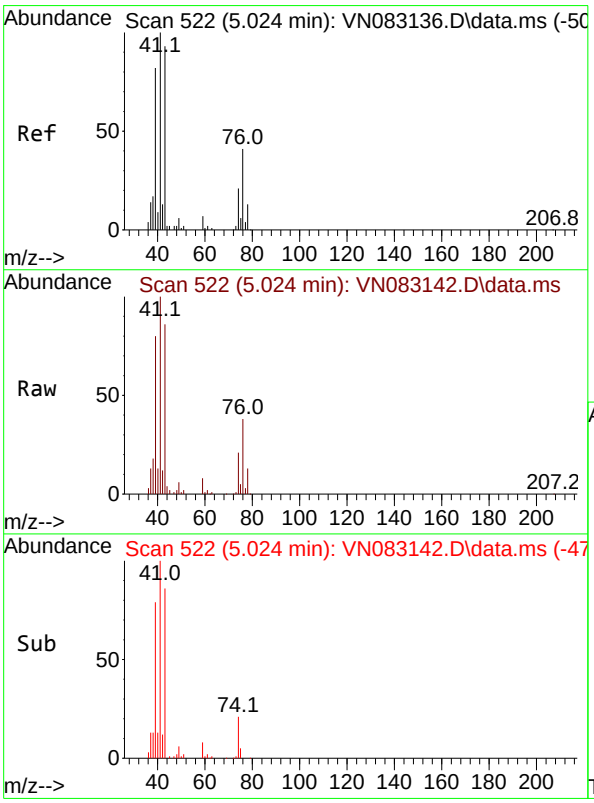
Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

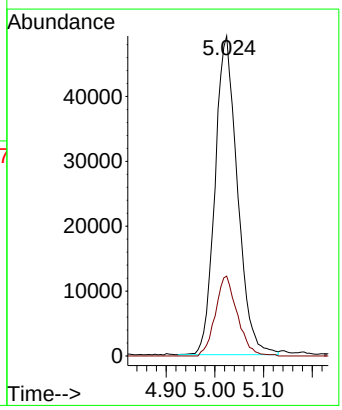
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

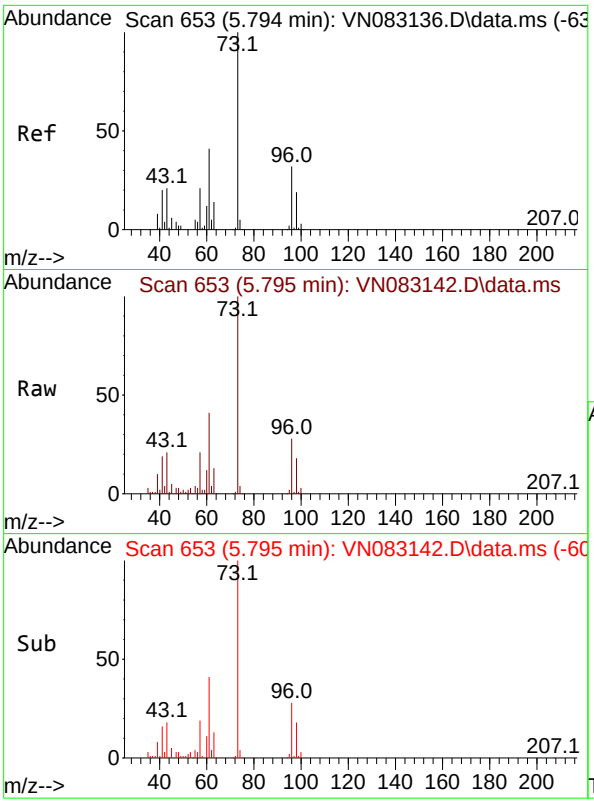


#18
Methyl Acetate
Concen: 42.397 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 43 Resp: 157374

Ion	Ratio	Lower	Upper
43	100		
74	24.6	16.3	24.5#

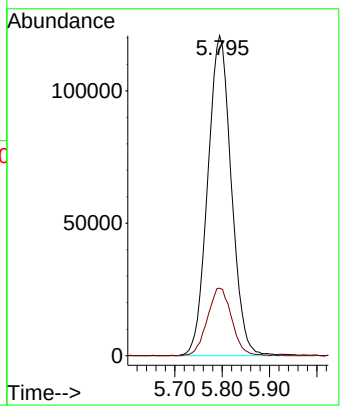




#19
Methyl tert-butyl Ether
Concen: 46.781 ug/l
RT: 5.795 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 73 Resp: 41869

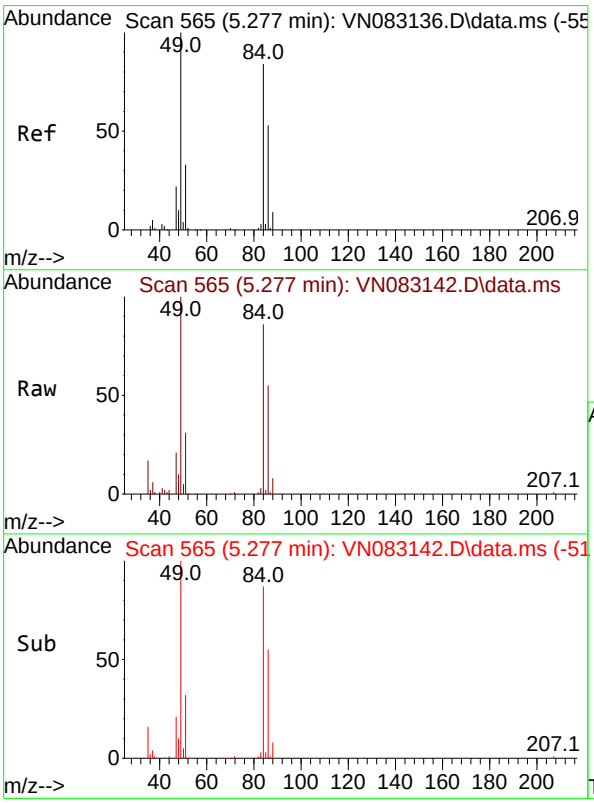
Ion	Ratio	Lower	Upper
73	100		
57	21.1	17.9	26.9



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

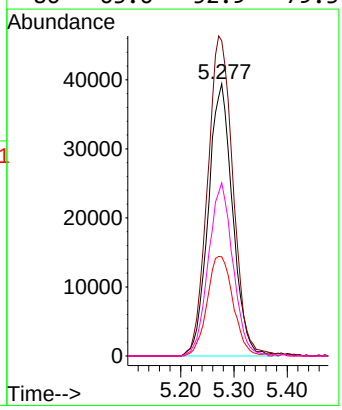
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

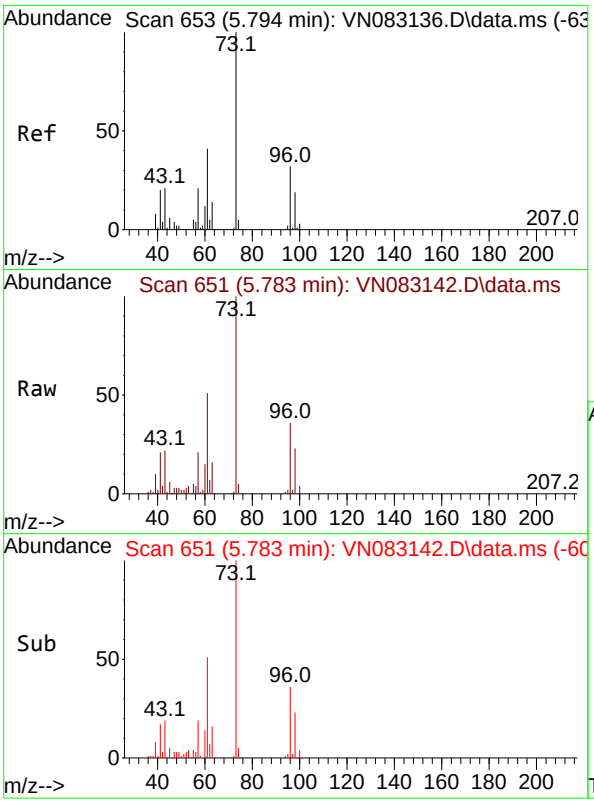


#20
Methylene Chloride
Concen: 43.645 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

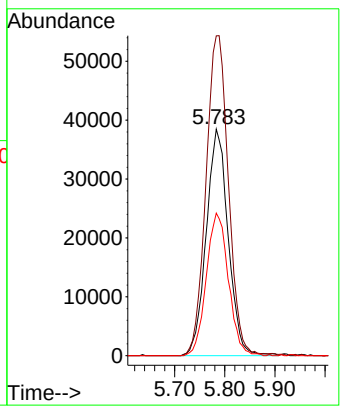




#21
trans-1,2-Dichloroethene
Concen: 45.671 ug/l
RT: 5.783 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 96 Resp: 11704

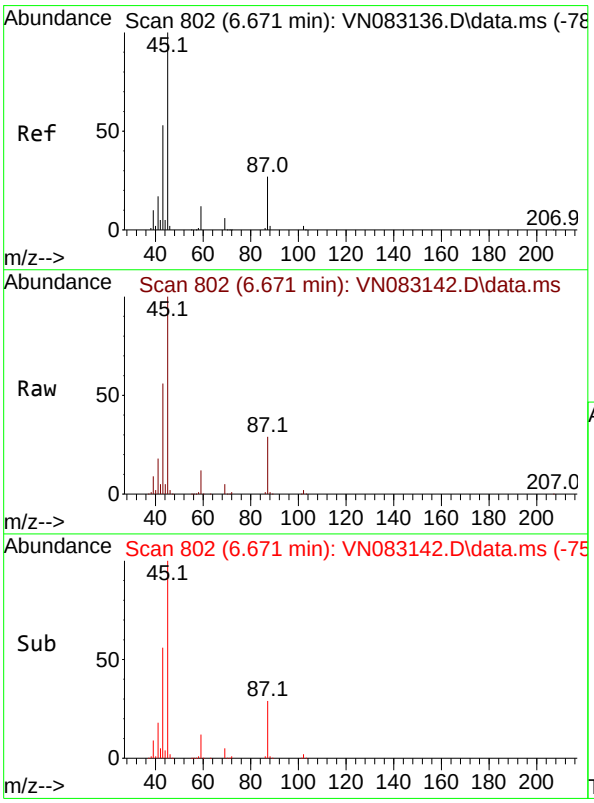
Ion	Ratio	Lower	Upper
96	100		
61	141.1	123.4	185.2
98	62.9	49.3	73.9



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

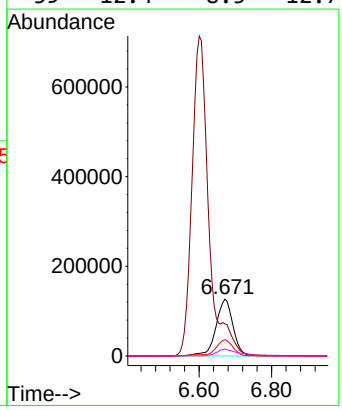
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

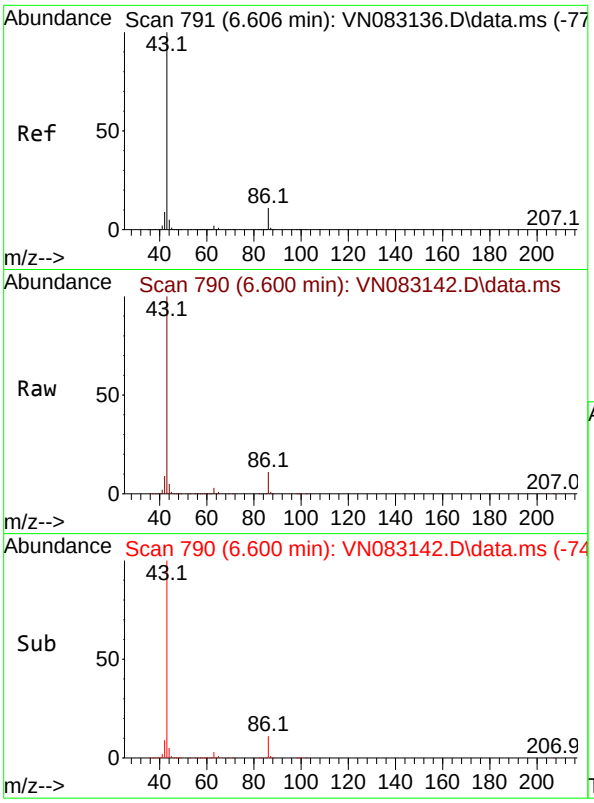


#22
Diisopropyl ether
Concen: 46.881 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

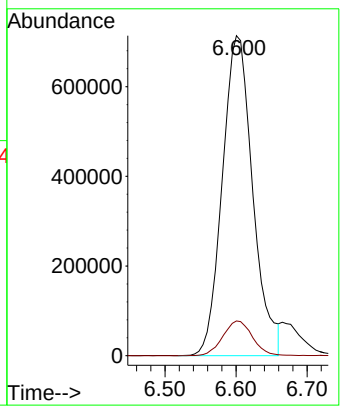




#23
Vinyl Acetate
Concen: 235.414 ug/l
RT: 6.600 min Scan# 7
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 43 Resp: 212534

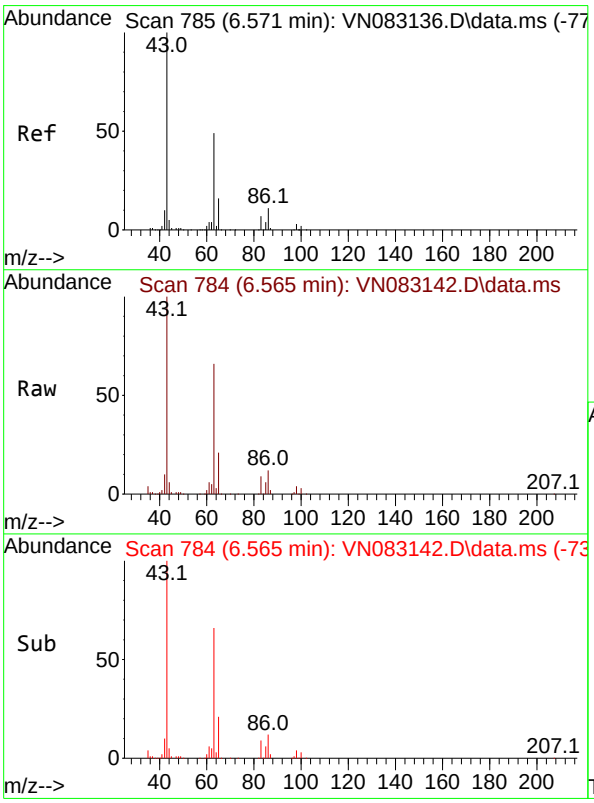
Ion	Ratio	Lower	Upper
43	100		
86	10.9	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

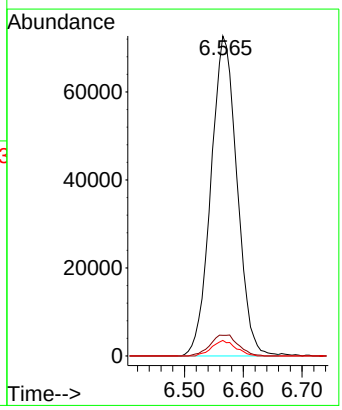
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

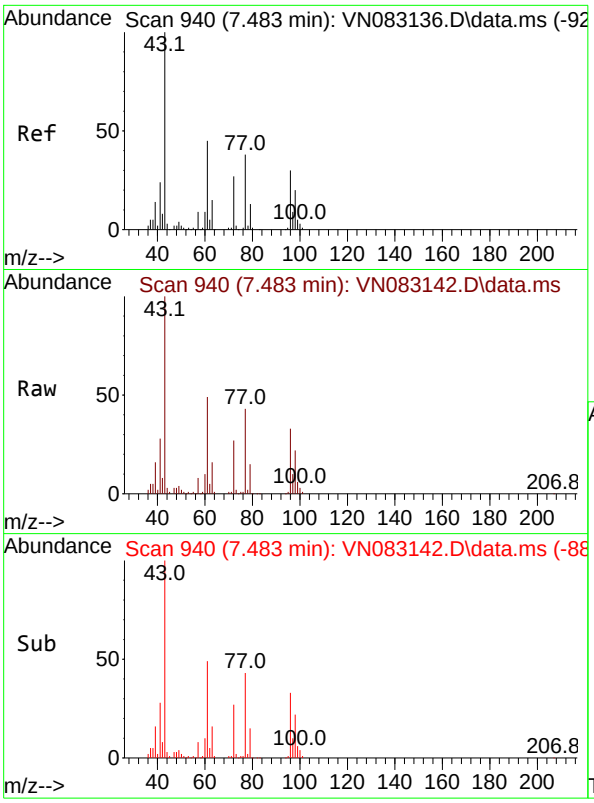


#24
1,1-Dichloroethane
Concen: 46.685 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

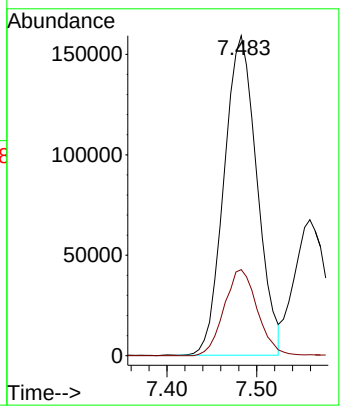
Tgt Ion: 43 Resp: 40513

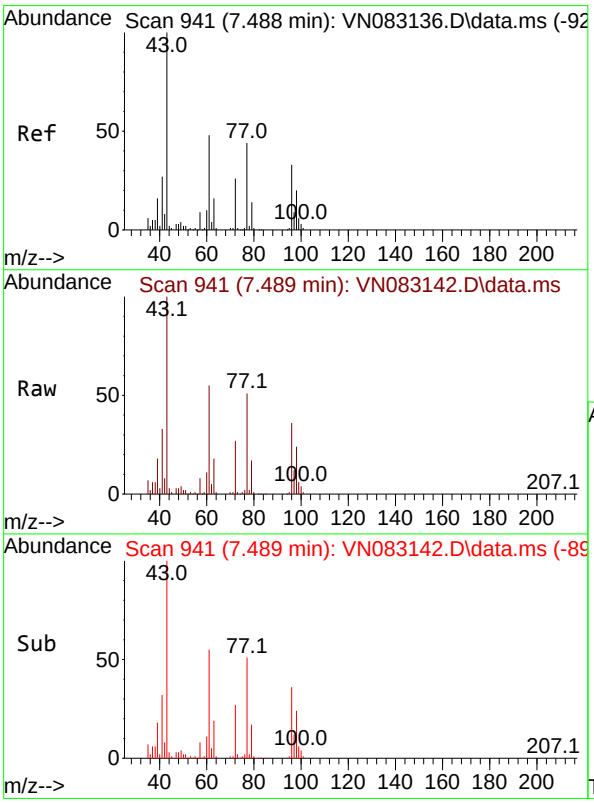
Ion	Ratio	Lower	Upper
43	100		
72	26.9	18.2	27.2

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

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

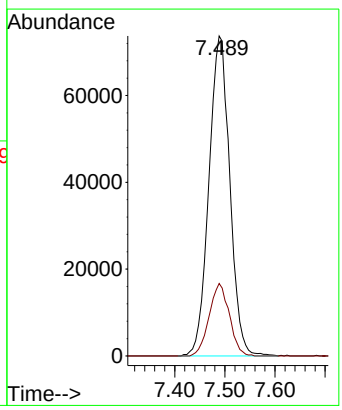


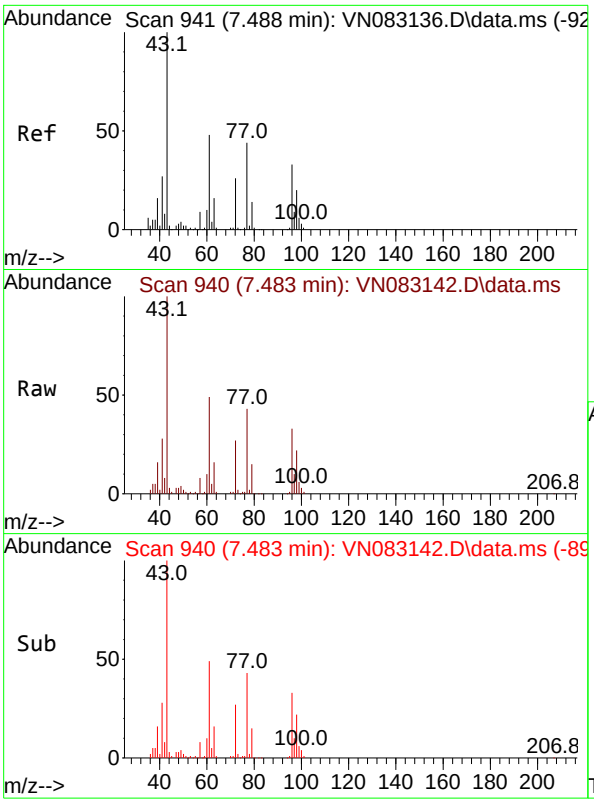


#26
2,2-Dichloropropane
Concen: 47.853 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

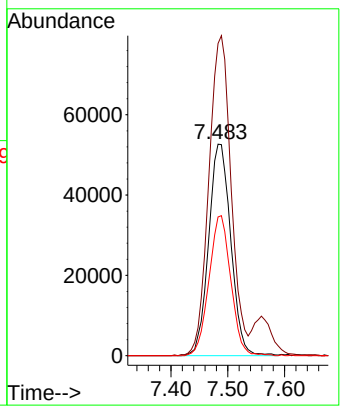
Tgt Ion: 96 Resp: 14260

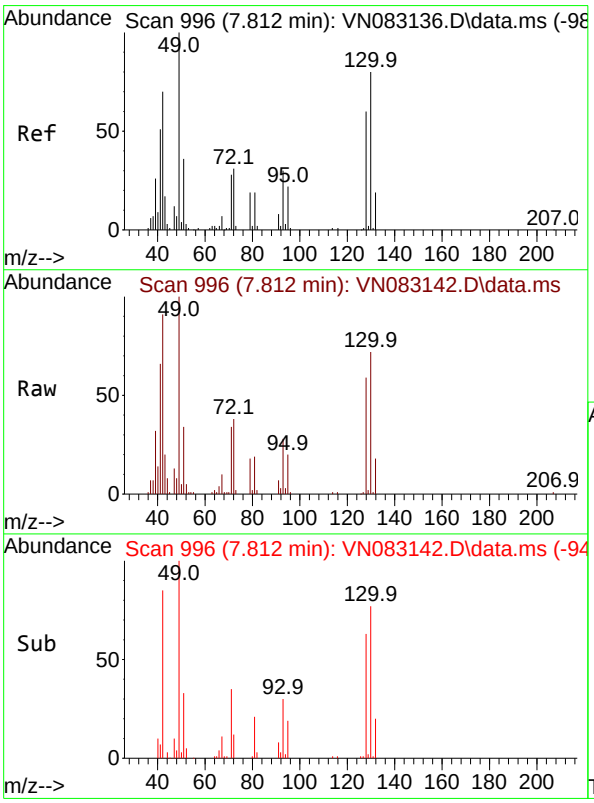
Ion	Ratio	Lower	Upper
96	100		
61	151.9	0.0	329.6
98	65.2	0.0	128.6

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

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

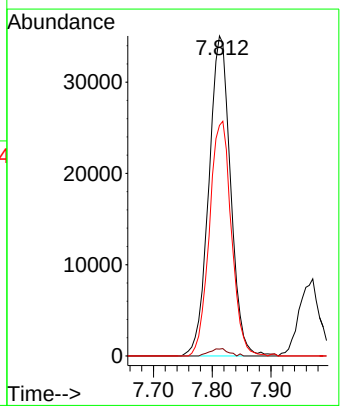


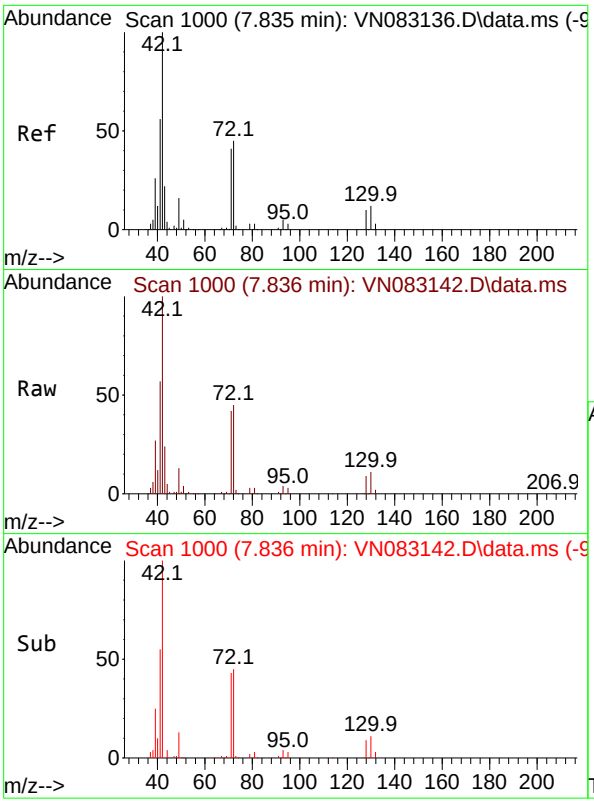


#28
Bromochloromethane
Concen: 45.986 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

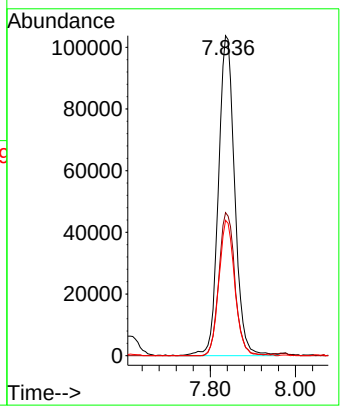




#29
Tetrahydrofuran
Concen: 222.147 ug/l
RT: 7.836 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 42 Resp: 27471

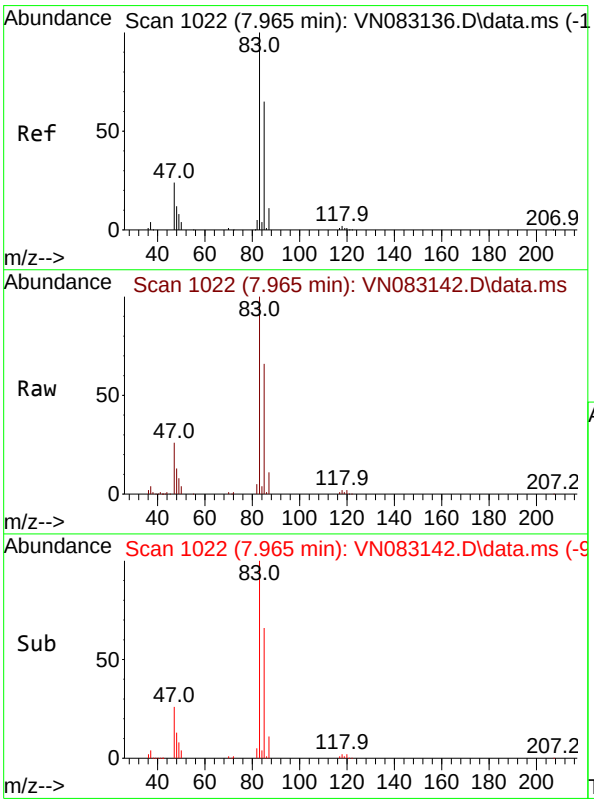
Ion	Ratio	Lower	Upper
42	100		
72	44.2	30.0	45.0
71	41.5	28.3	42.5



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

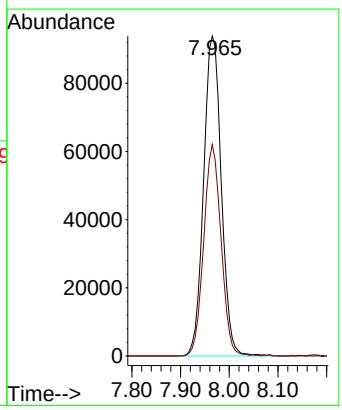
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

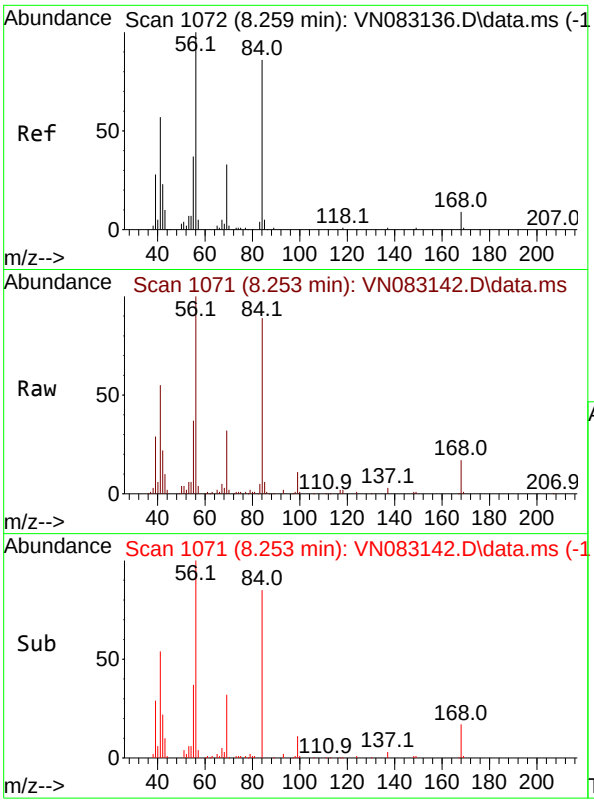


#30
Chloroform
Concen: 47.387 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 83 Resp: 236359

Ion	Ratio	Lower	Upper
83	100		
85	66.1	50.9	76.3

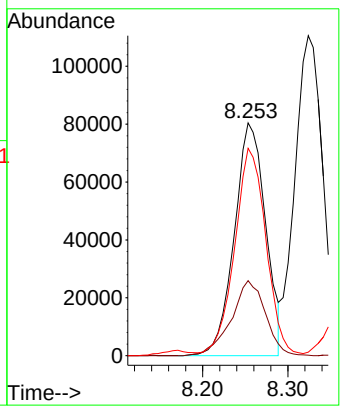




#31
Cyclohexane
Concen: 43.474 ug/l
RT: 8.253 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 56 Resp: 20512

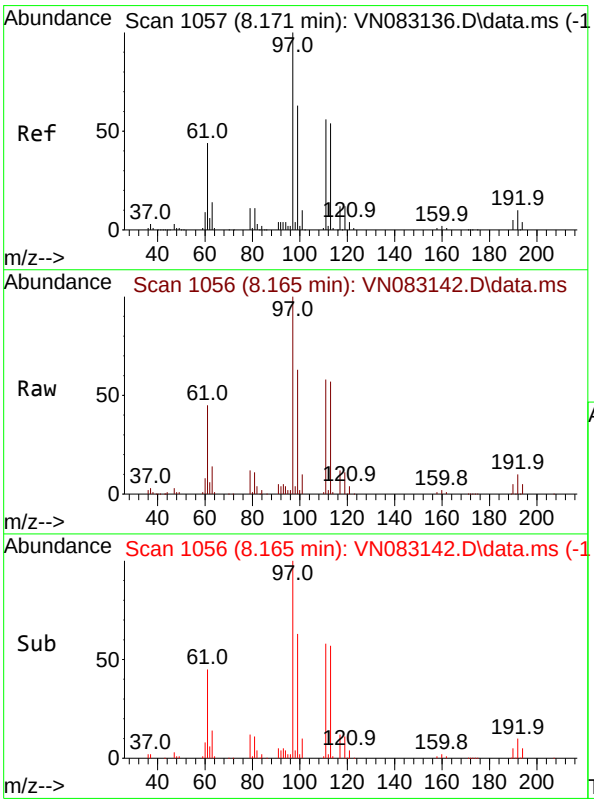
Ion	Ratio	Lower	Upper
56	100		
69	32.3	24.5	36.7
84	86.7	66.0	99.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

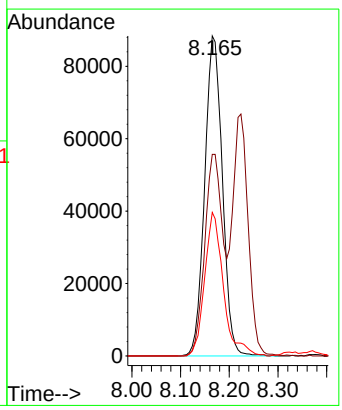
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

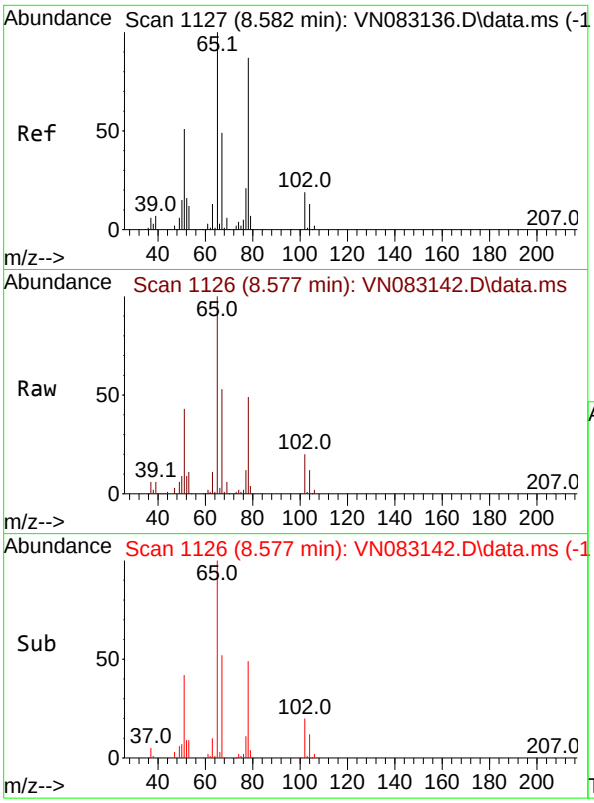


#32
1,1,1-Trichloroethane
Concen: 47.135 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

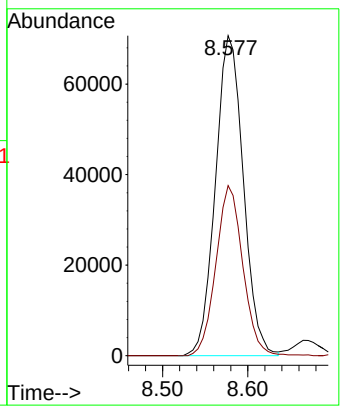




#33
1,2-Dichloroethane-d4
Concen: 50.583 ug/l
RT: 8.577 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 65 Resp: 16105

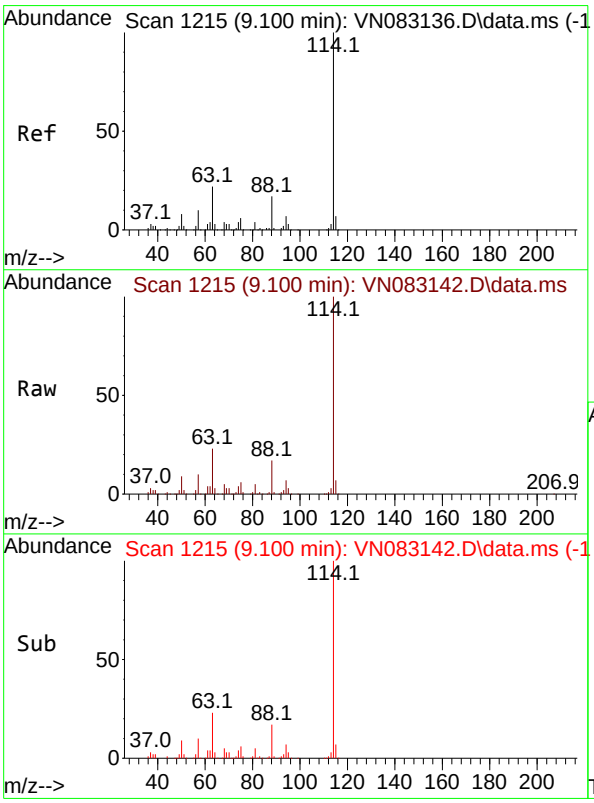
Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	104.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

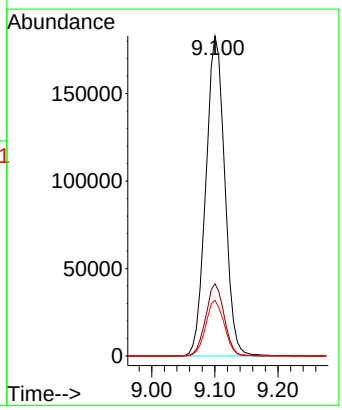
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

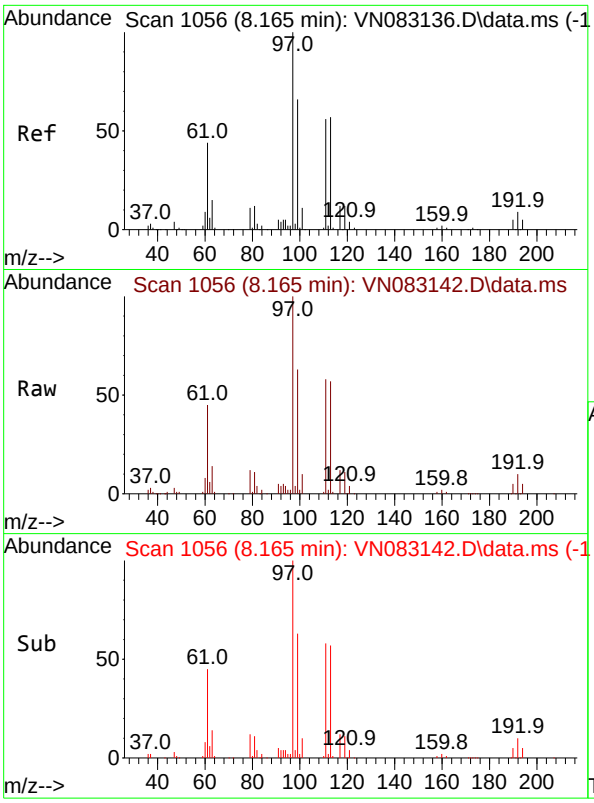


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

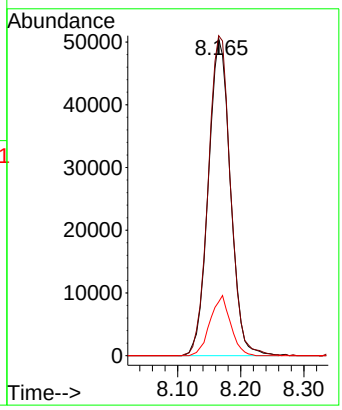




#35
Dibromofluoromethane
Concen: 51.549 ug/l
RT: 8.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:113 Resp: 12226

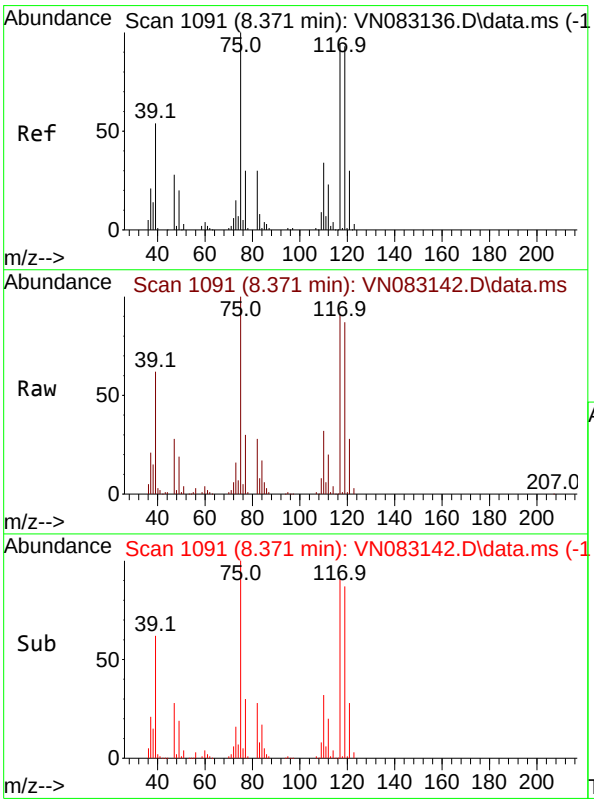
Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.4	123.6
192	17.6	14.9	22.3



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

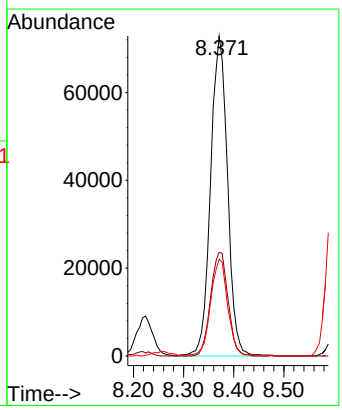
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

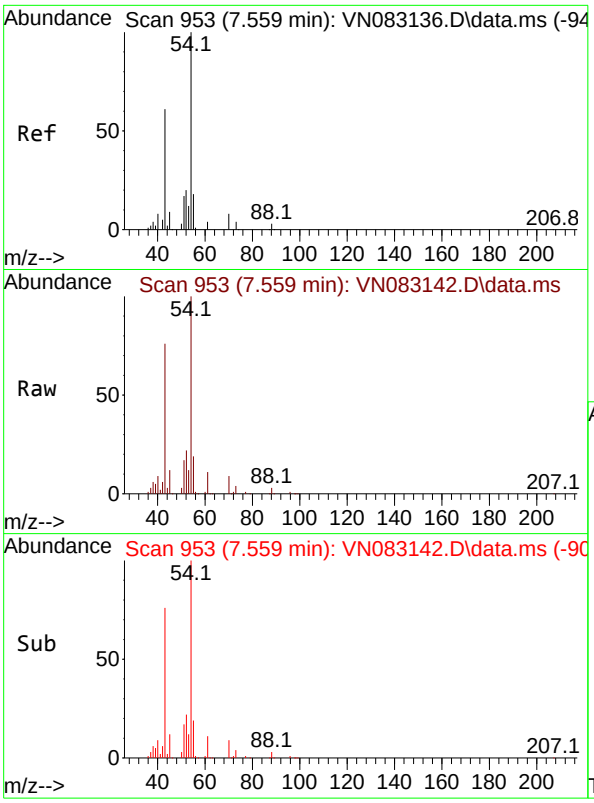


#36
1,1-Dichloropropene
Concen: 47.732 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

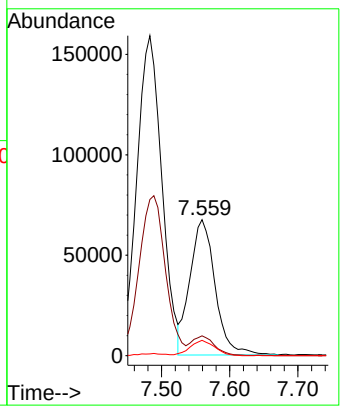




#37
Ethyl Acetate
Concen: 43.124 ug/l
RT: 7.559 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 43 Resp: 17324

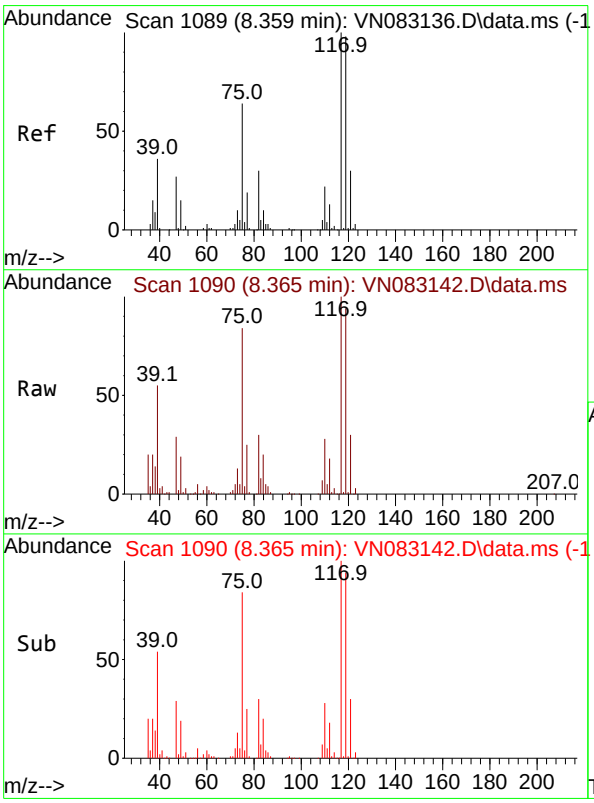
Ion	Ratio	Lower	Upper
43	100		
61	12.9	9.3	13.9
70	11.0	7.0	10.6



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

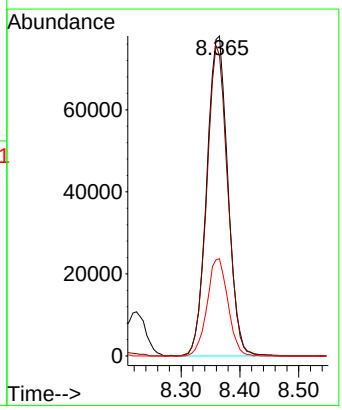
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

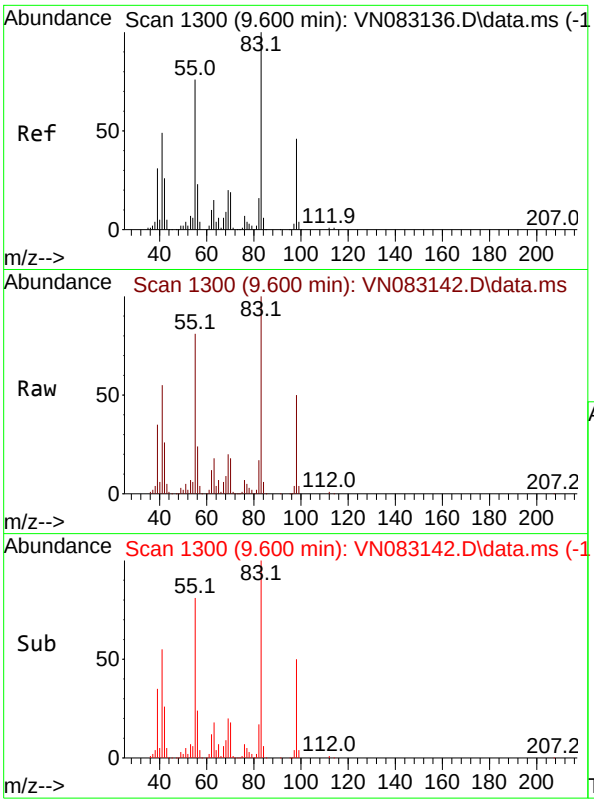


#38
Carbon Tetrachloride
Concen: 47.904 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

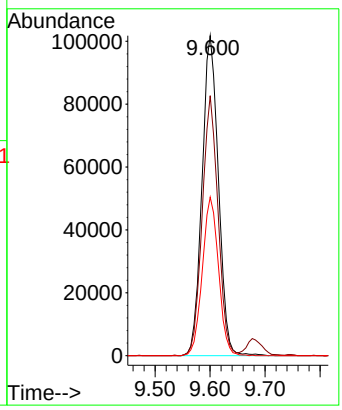
Tgt Ion: 83 Resp: 21074

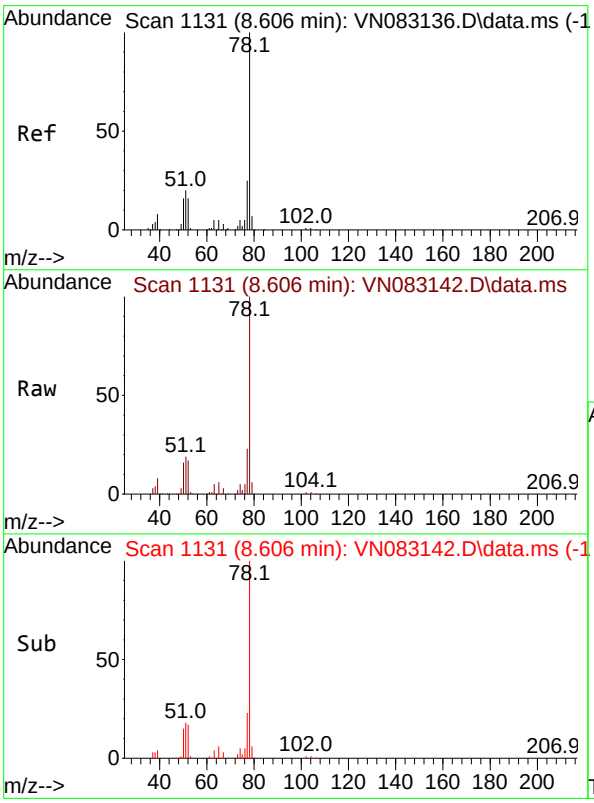
Ion	Ratio	Lower	Upper
83	100		
55	81.3	66.4	99.6
98	49.5	40.7	61.1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

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

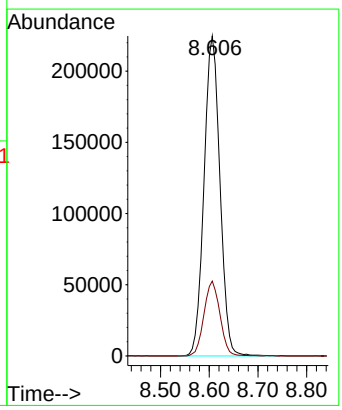


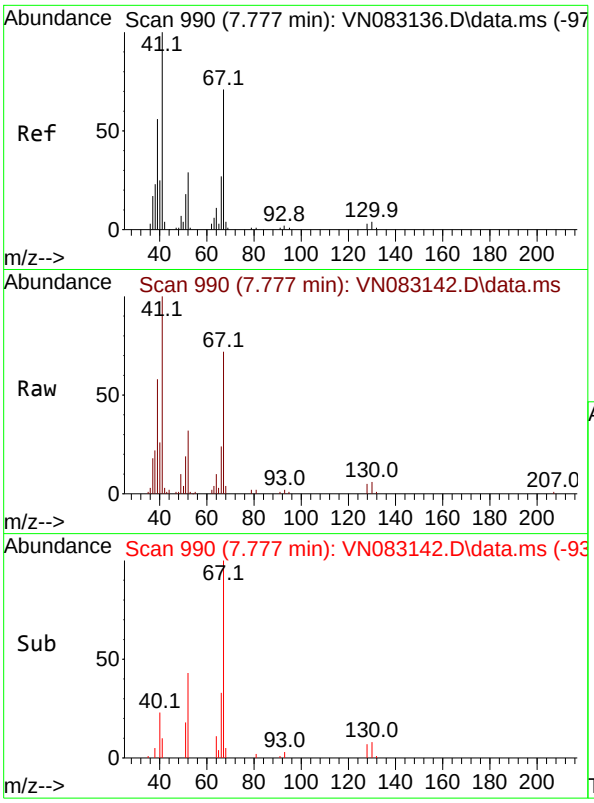


#40
Benzene
Concen: 47.635 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 78 Resp: 509159

Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.0	28.4

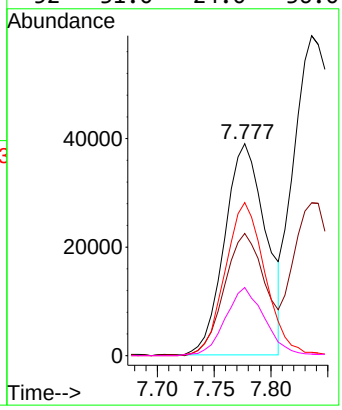




#41
Methacrylonitrile
Concen: 43.013 ug/l
RT: 7.777 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 41 Resp: 9825

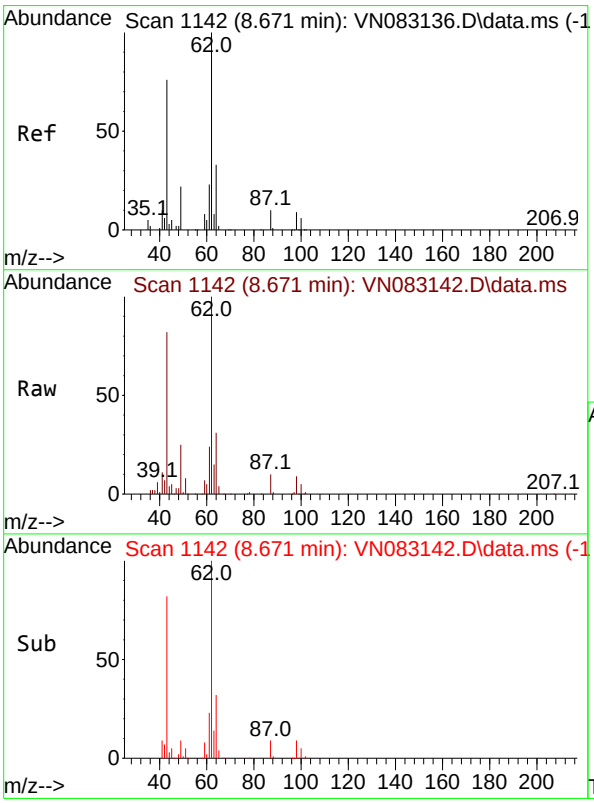
Ion	Ratio	Lower	Upper
41	100		
39	57.7	45.5	68.3
67	70.8	50.5	75.7
52	31.0	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

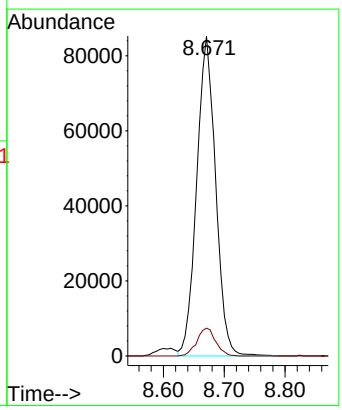
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

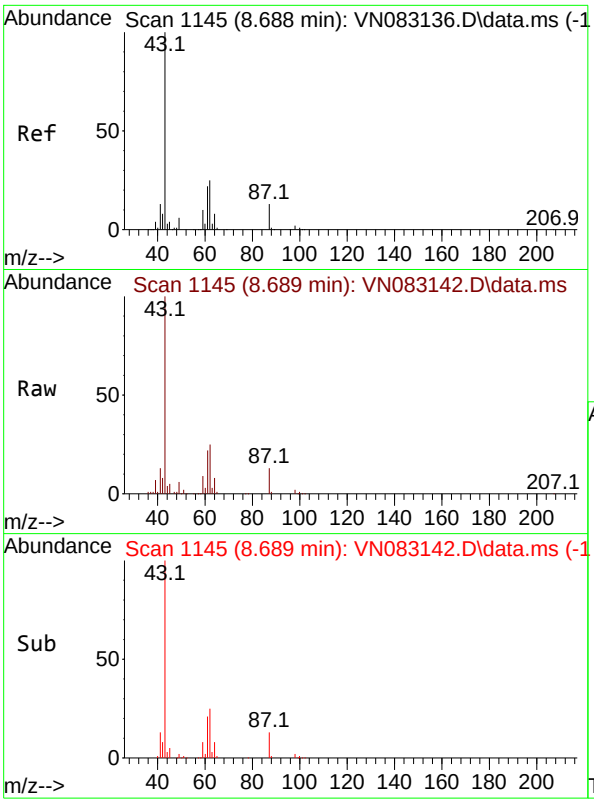


#42
1,2-Dichloroethane
Concen: 47.310 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 62 Resp: 184210

Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	15.8

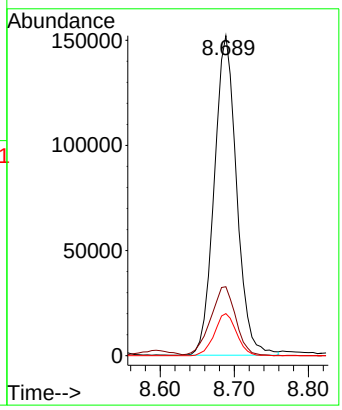




#43
Isopropyl Acetate
Concen: 45.577 ug/l
RT: 8.689 min Scan# 1
Delta R.T. 0.001 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 43 Resp: 31954

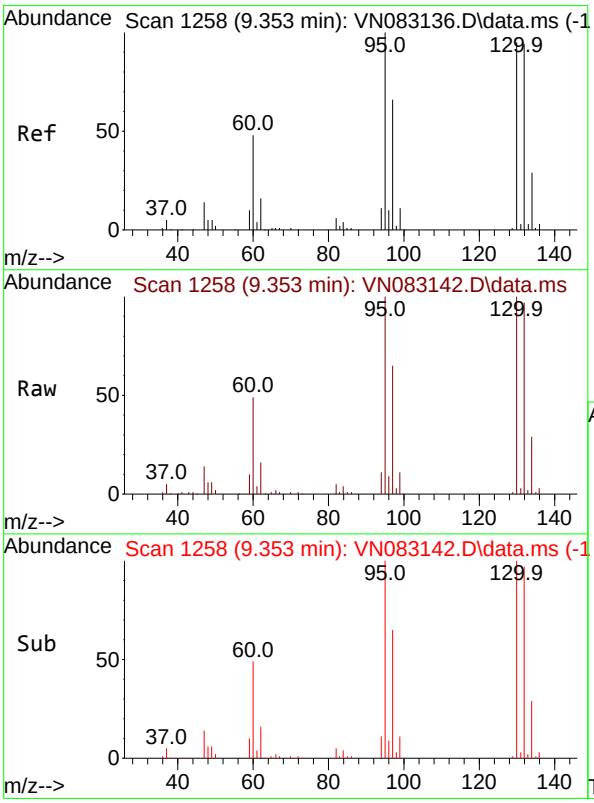
Ion	Ratio	Lower	Upper
43	100		
61	24.3	17.8	26.6
87	13.0	8.2	12.2



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

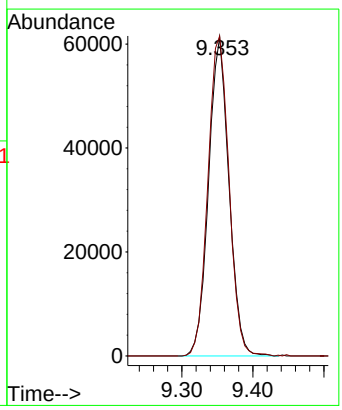
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

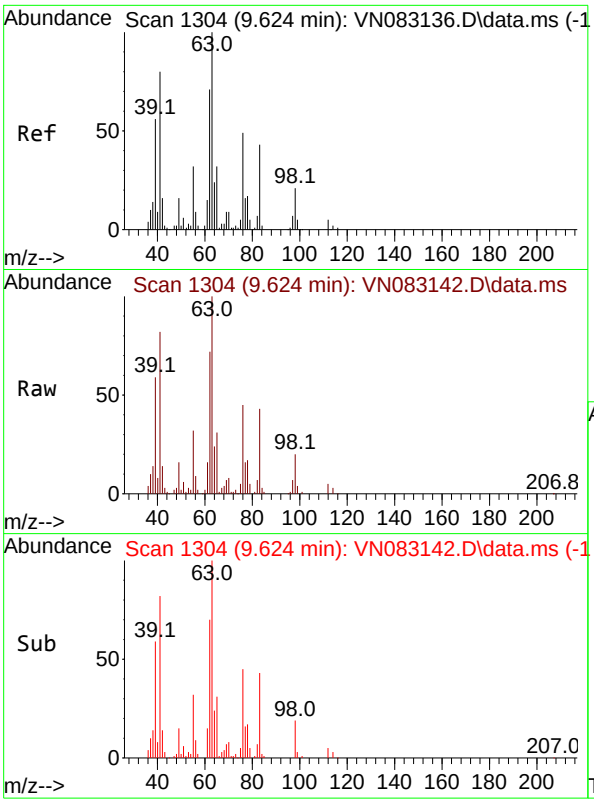


#44
Trichloroethene
Concen: 47.994 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

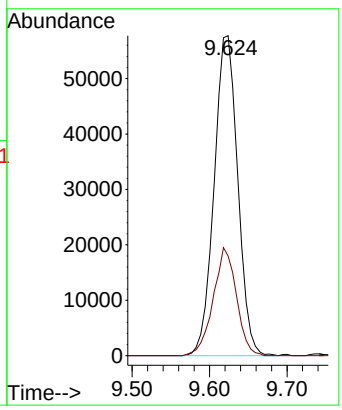
Tgt Ion: 63 Resp: 12231

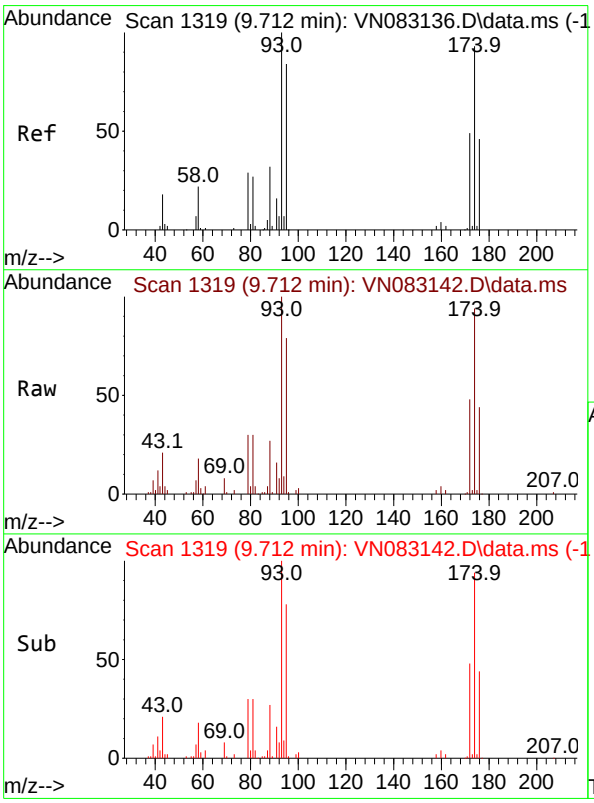
Ion	Ratio	Lower	Upper
63	100		
65	31.2	24.4	36.6

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

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

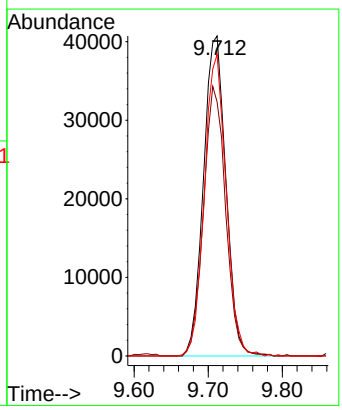


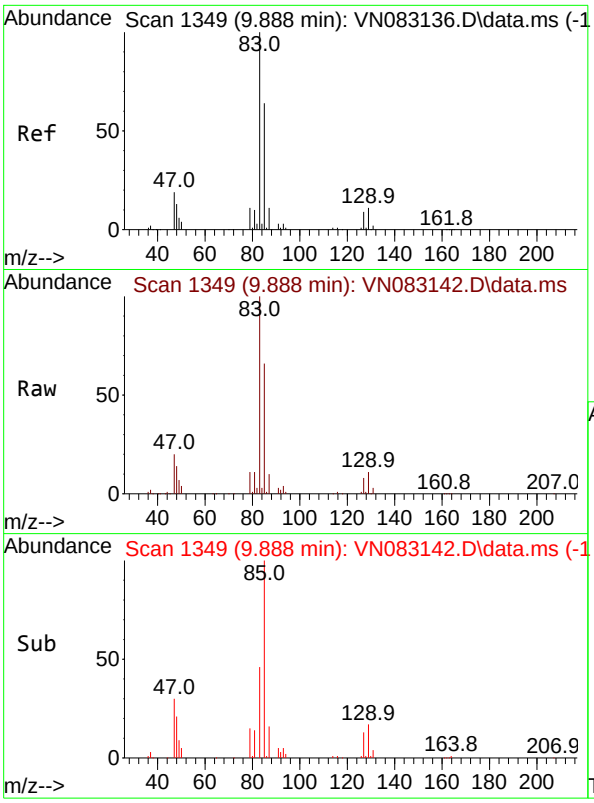


#46
Dibromomethane
Concen: 47.124 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

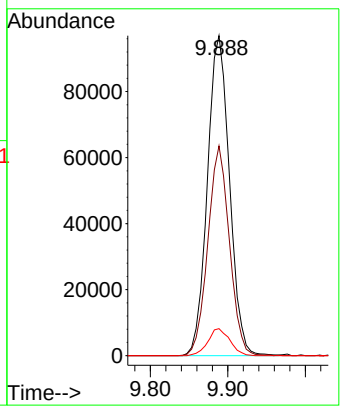
Tgt Ion: 83 Resp: 19184

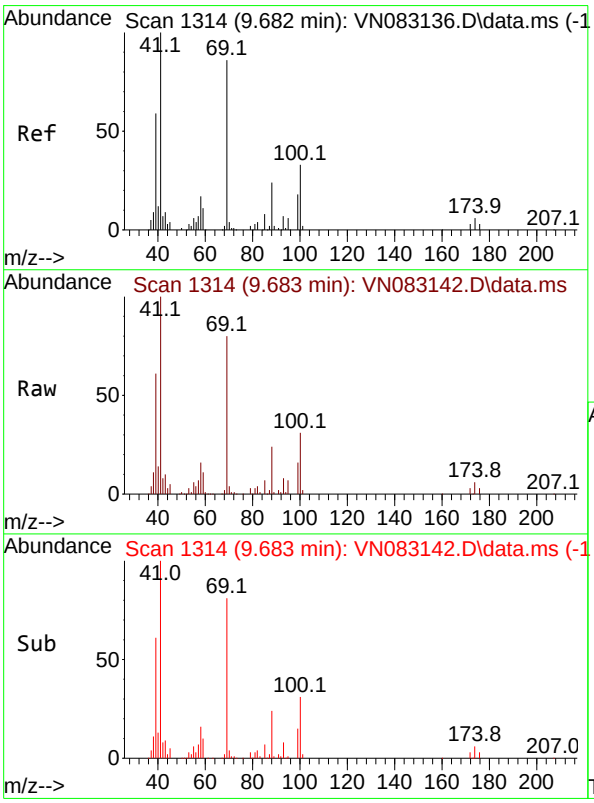
Ion	Ratio	Lower	Upper
83	100		
85	65.5	51.1	76.7
127	8.5	7.2	10.8

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

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

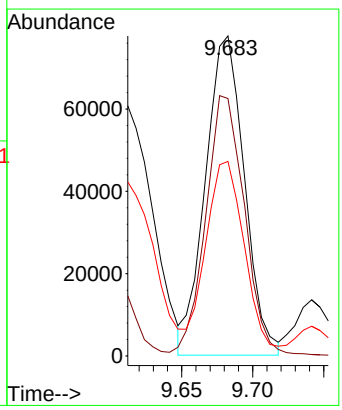


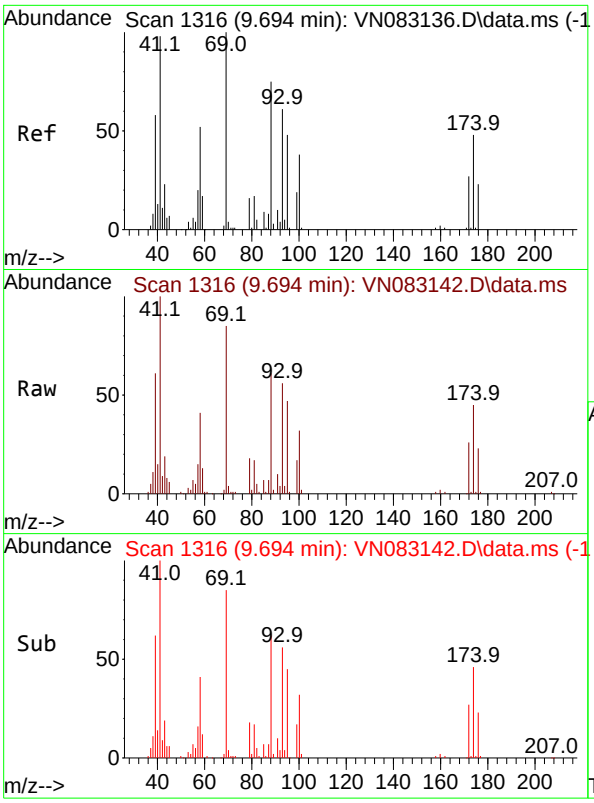


#48
Methyl methacrylate
Concen: 44.609 ug/l
RT: 9.683 min Scan# 1314
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

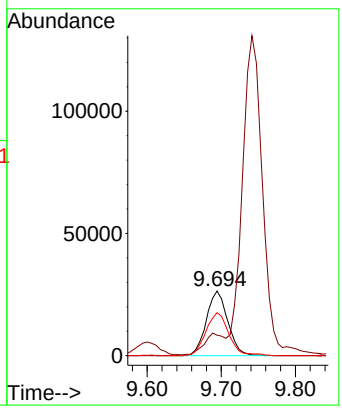
Tgt Ion: 88 Resp: 5304

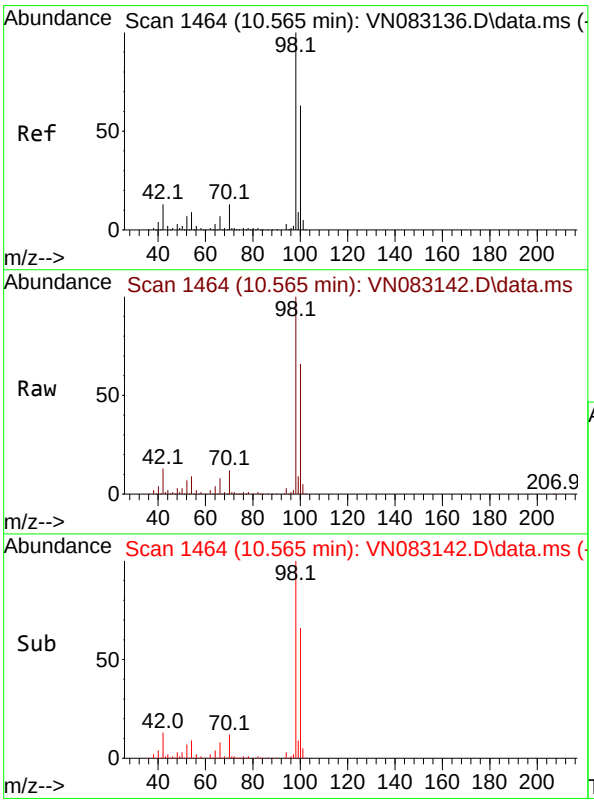
Ion	Ratio	Lower	Upper
88	100		
43	32.0	27.8	41.8
58	71.4	59.4	89.0

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

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

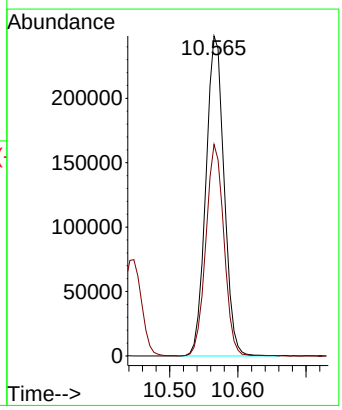


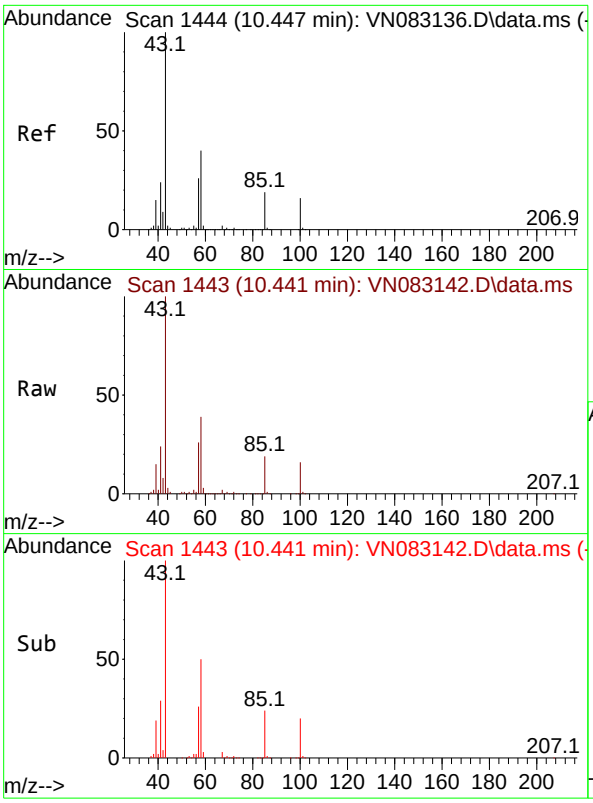


#50
Toluene-d8
Concen: 52.175 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 98 Resp: 461627

Ion	Ratio	Lower	Upper
98	100		
100	65.5	51.5	77.3

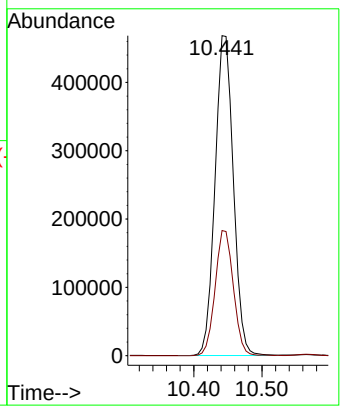




#51
4-Methyl-2-Pentanone
Concen: 230.917 ug/l
RT: 10.441 min Scan# 14
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 43 Resp: 87724

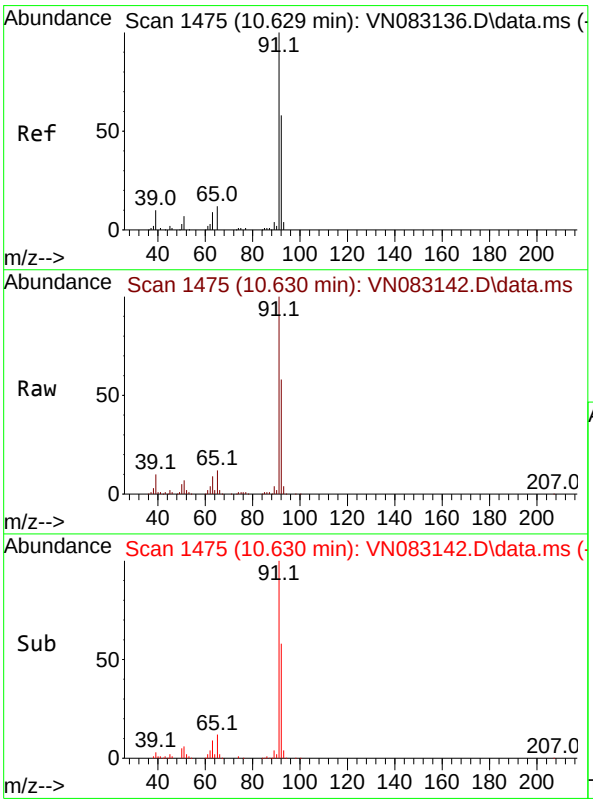
Ion	Ratio	Lower	Upper
43	100		
58	39.0	28.2	42.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

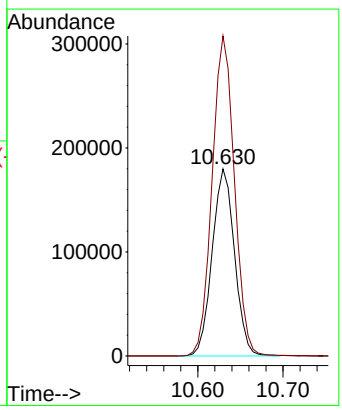
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

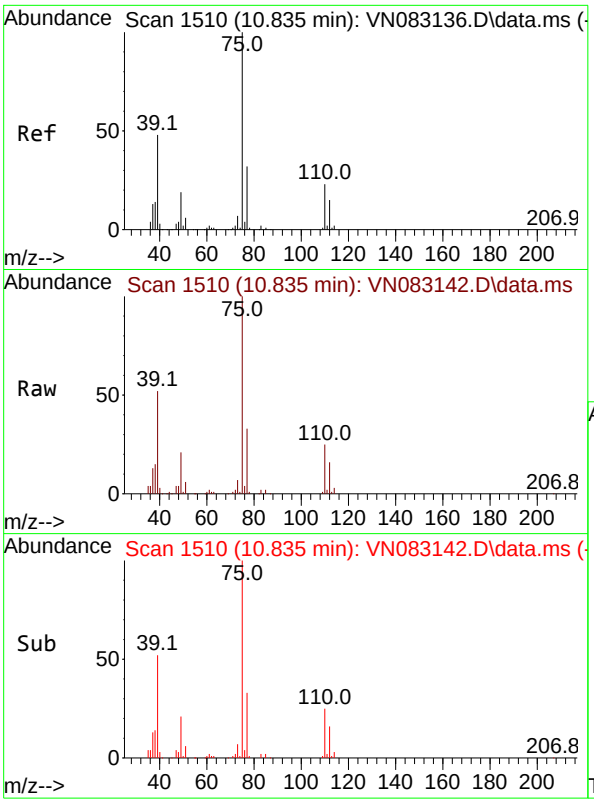


#52
Toluene
Concen: 48.520 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 92 Resp: 327682

Ion	Ratio	Lower	Upper
92	100		
91	170.9	139.4	209.0

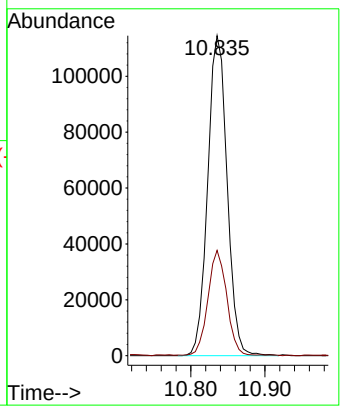




#53
t-1,3-Dichloropropene
Concen: 49.776 ug/l
RT: 10.835 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 75 Resp: 20849

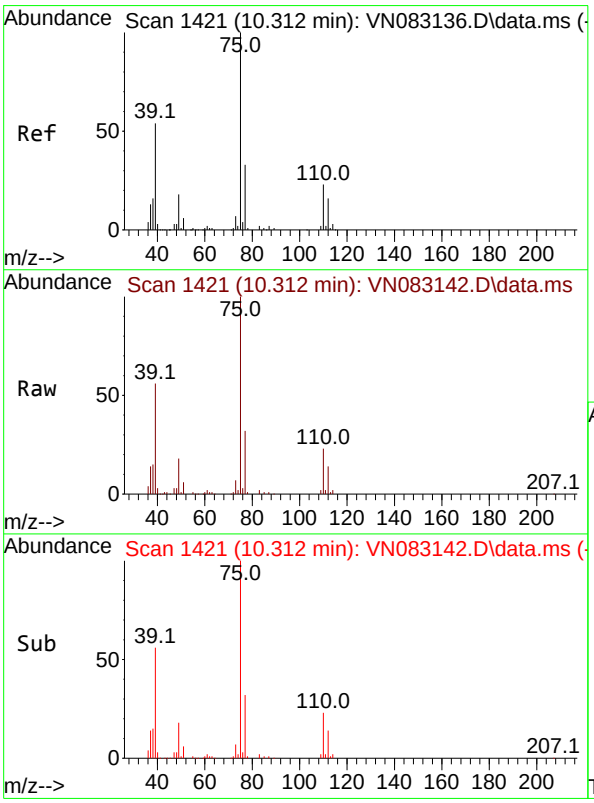
Ion	Ratio	Lower	Upper
75	100		
77	32.8	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

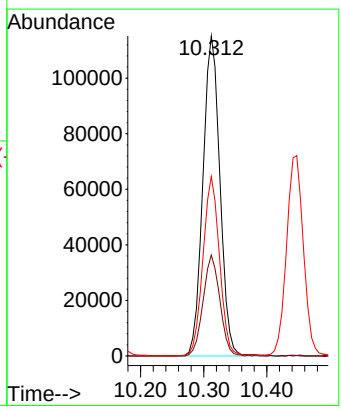
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

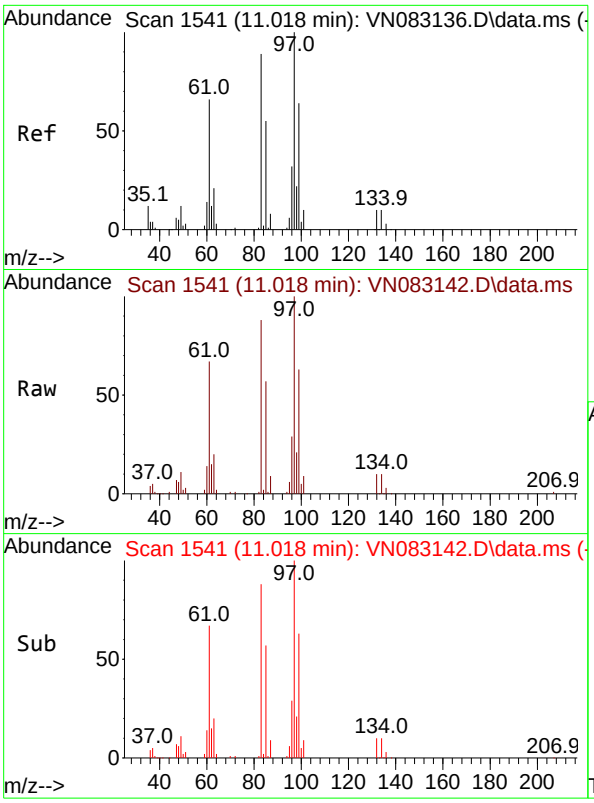


#54
cis-1,3-Dichloropropene
Concen: 48.487 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

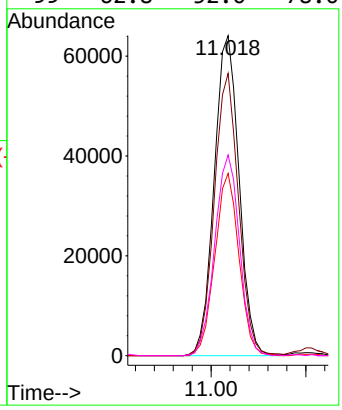




#55
1,1,2-Trichloroethane
Concen: 48.351 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 97 Resp: 11702

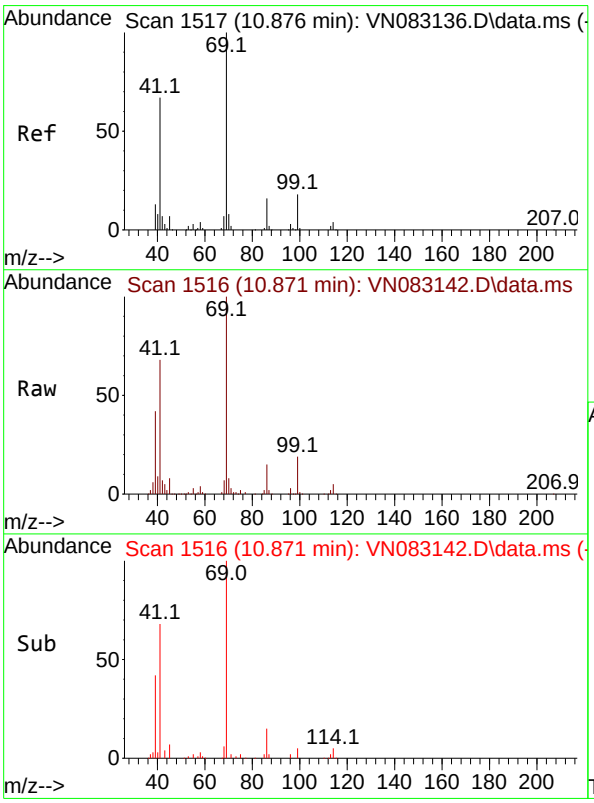
Ion	Ratio	Lower	Upper
97	100		
83	88.2	71.4	107.0
85	57.0	45.8	68.6
99	62.8	52.0	78.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

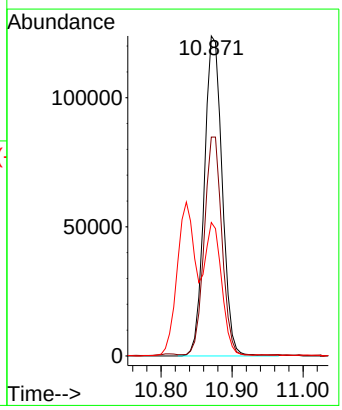
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

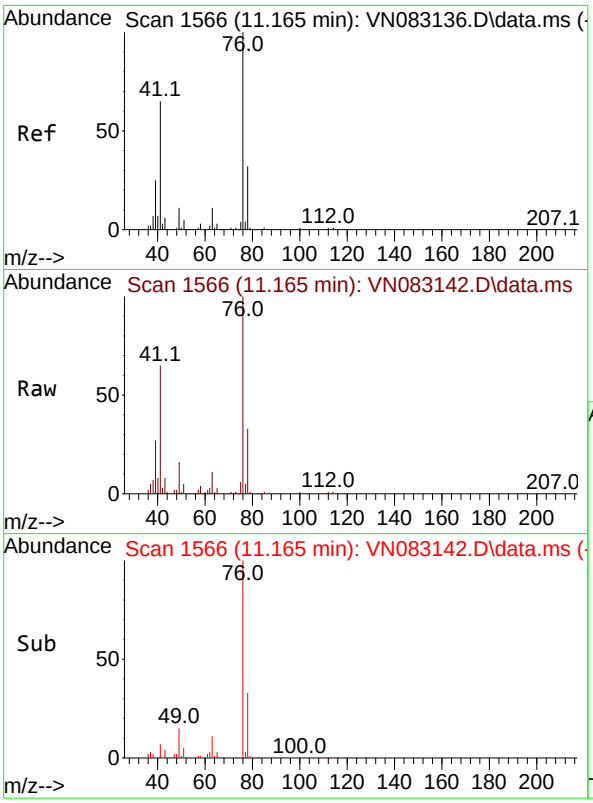


#56
Ethyl methacrylate
Concen: 47.395 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

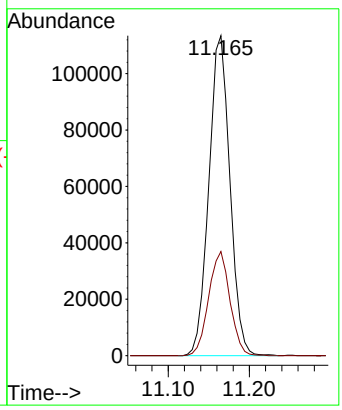




#57
1,3-Dichloropropane
Concen: 47.391 ug/l
RT: 11.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 76 Resp: 20444

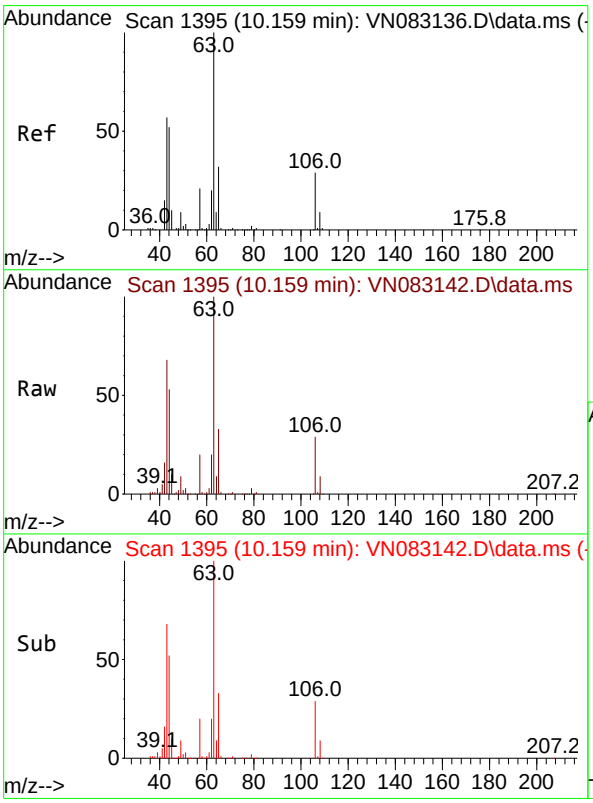
Ion	Ratio	Lower	Upper
76	100		
78	32.9	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

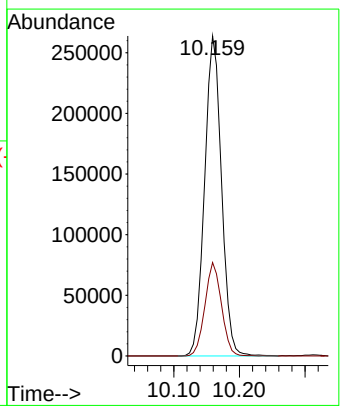
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

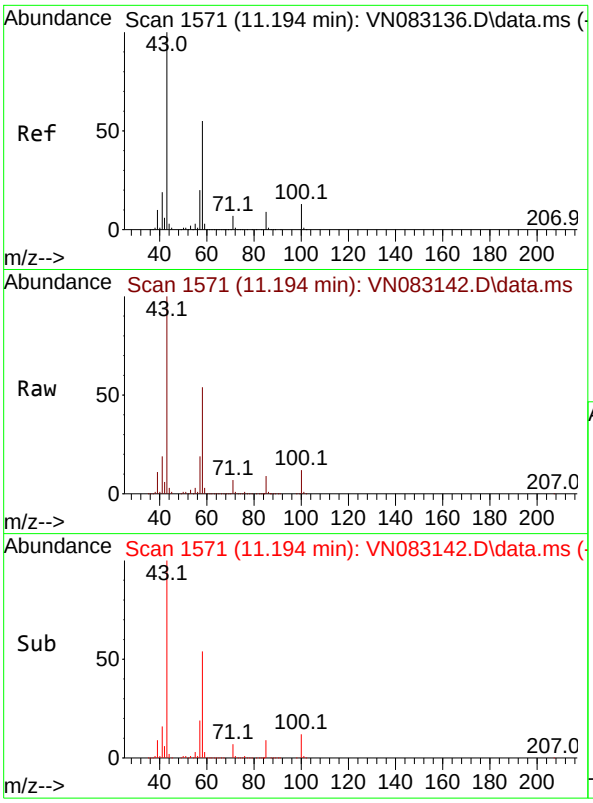


#58
2-Chloroethyl Vinyl ether
Concen: 244.918 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

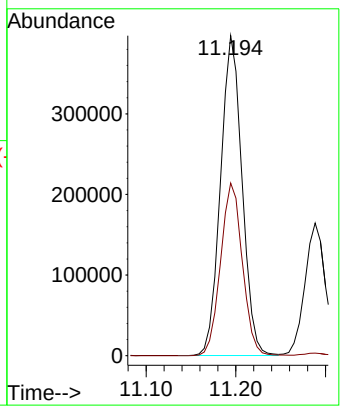
Tgt Ion: 43 Resp: 66103

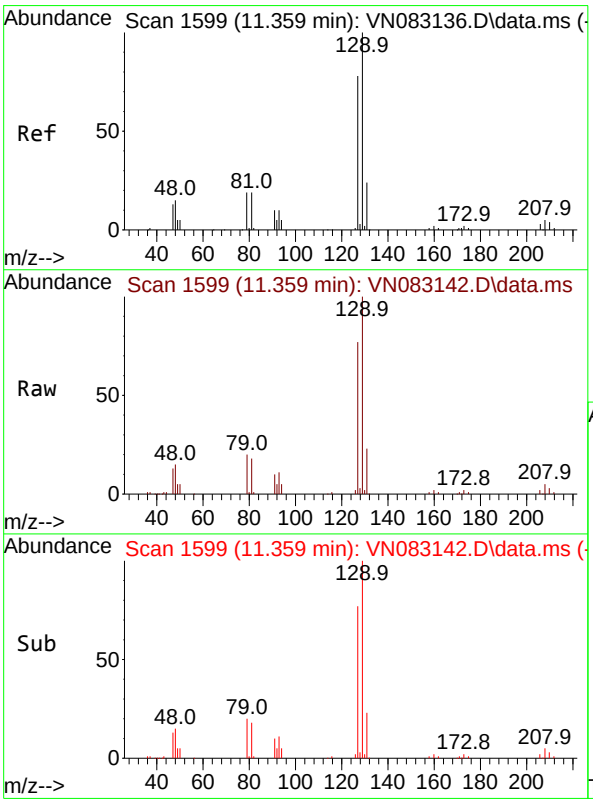
Ion	Ratio	Lower	Upper
43	100		
58	54.6	24.6	73.8

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

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

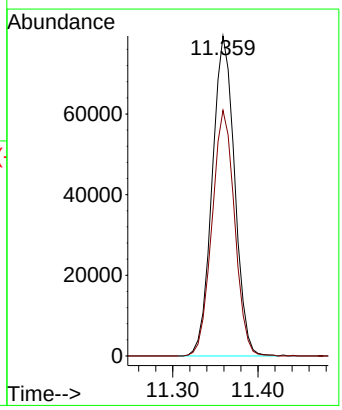


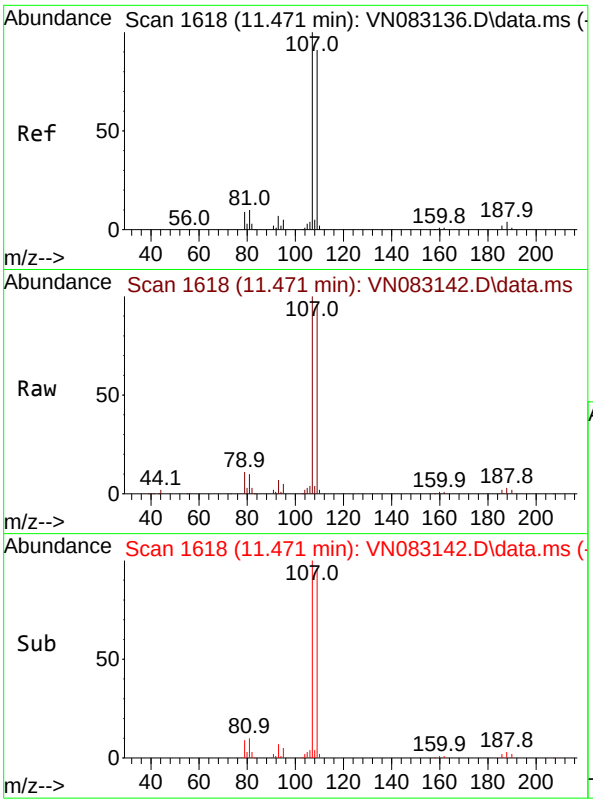


#60
Dibromochloromethane
Concen: 49.513 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:129 Resp: 144886

Ion	Ratio	Lower	Upper
129	100		
127	77.3	39.2	117.6

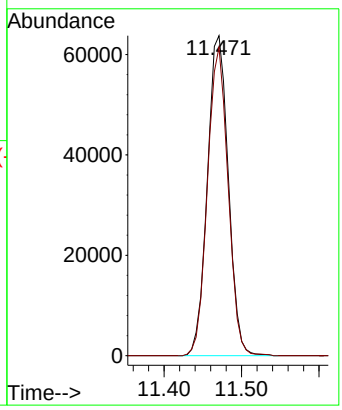




#61
1,2-Dibromoethane
Concen: 47.133 ug/l
RT: 11.471 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:107 Resp: 11983

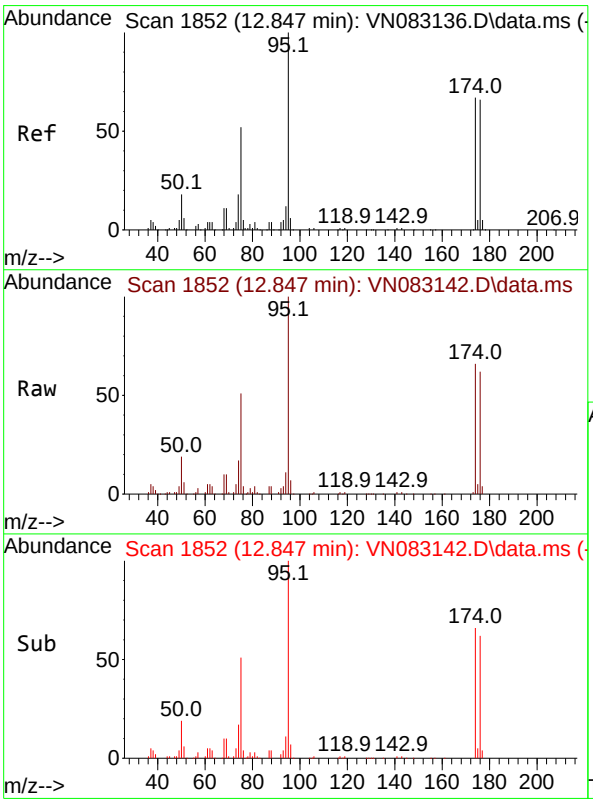
Ion	Ratio	Lower	Upper
107	100		
109	94.5	73.7	110.5



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

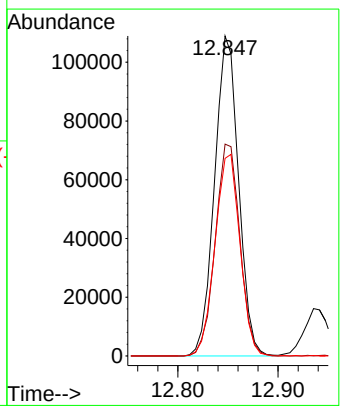
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

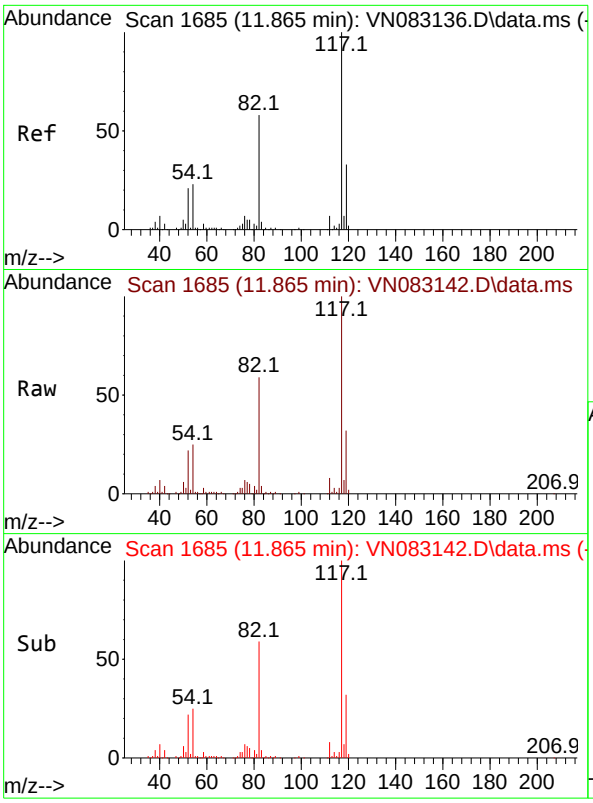


#62
4-Bromofluorobenzene
Concen: 52.574 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

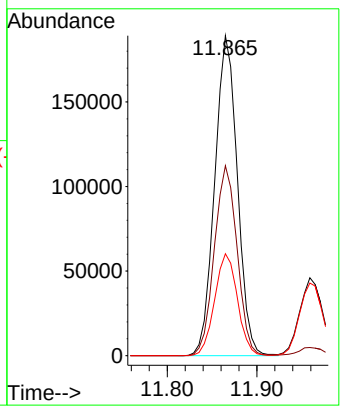
Tgt Ion:117 Resp: 33095

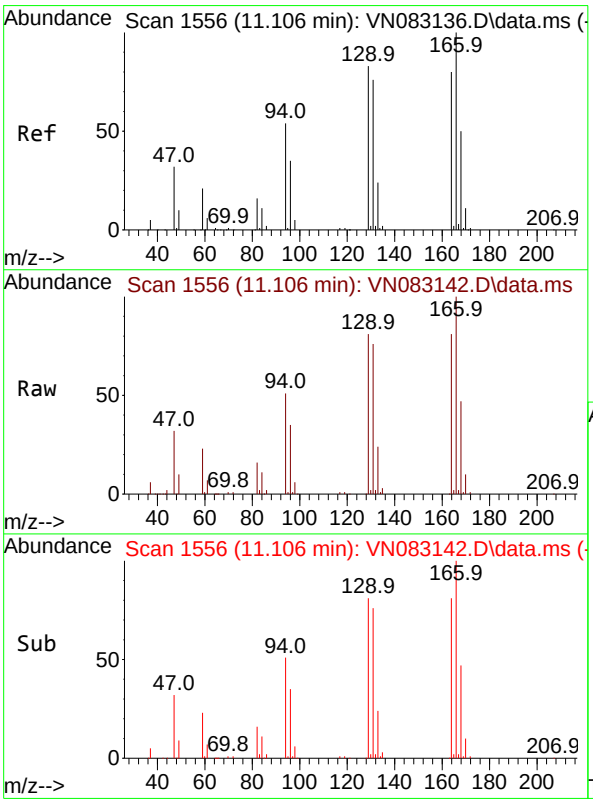
Ion	Ratio	Lower	Upper
117	100		
82	59.4	47.5	71.3
119	31.9	25.6	38.4

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

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

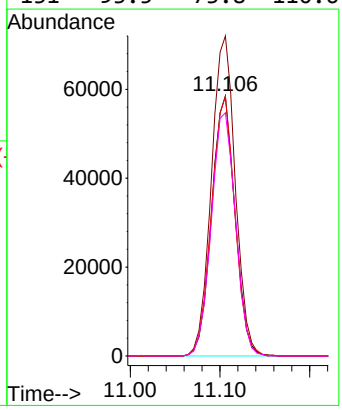


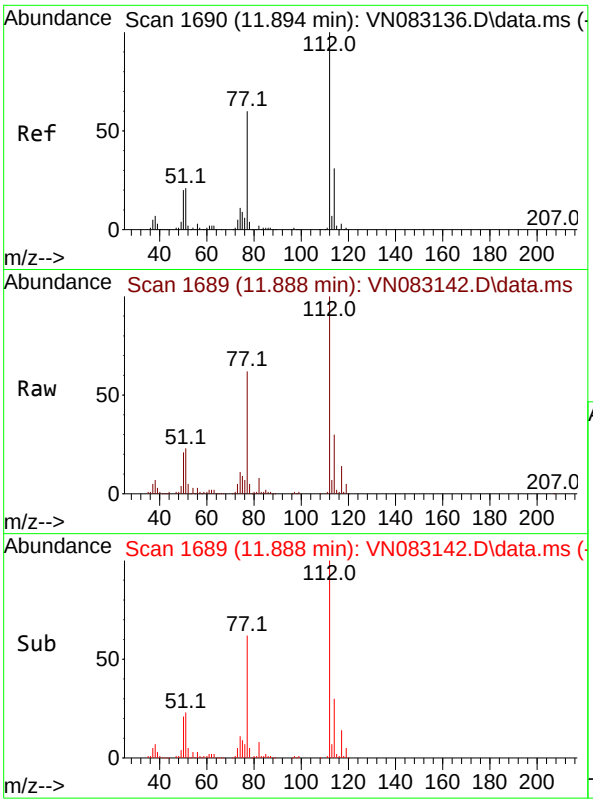


#64
Tetrachloroethene
Concen: 48.175 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

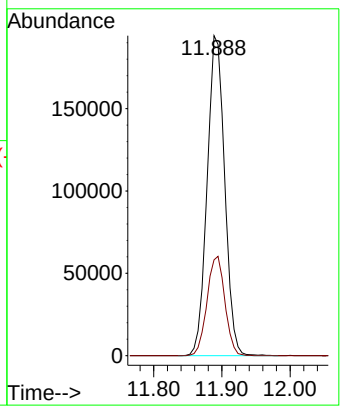




#65
Chlorobenzene
Concen: 47.522 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:112 Resp: 34756

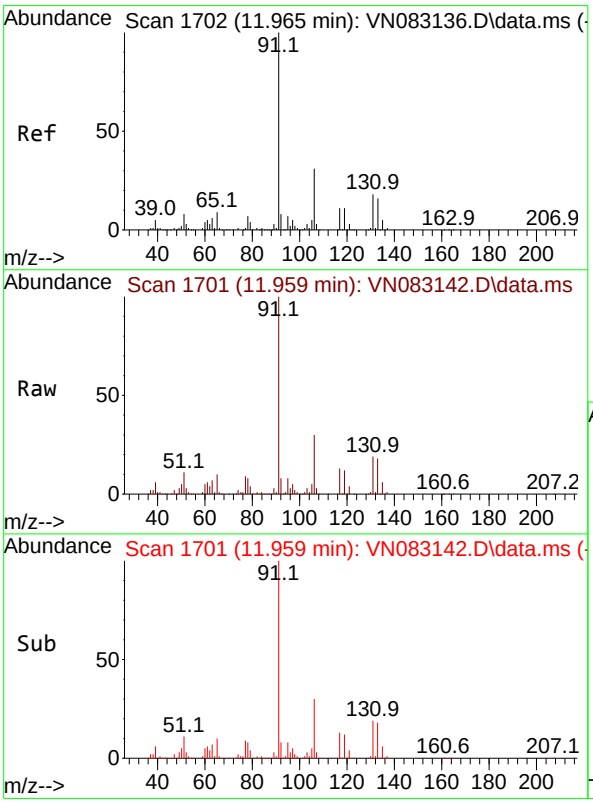
Ion	Ratio	Lower	Upper
112	100		
114	29.9	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

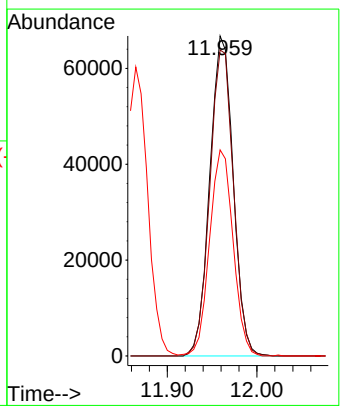
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

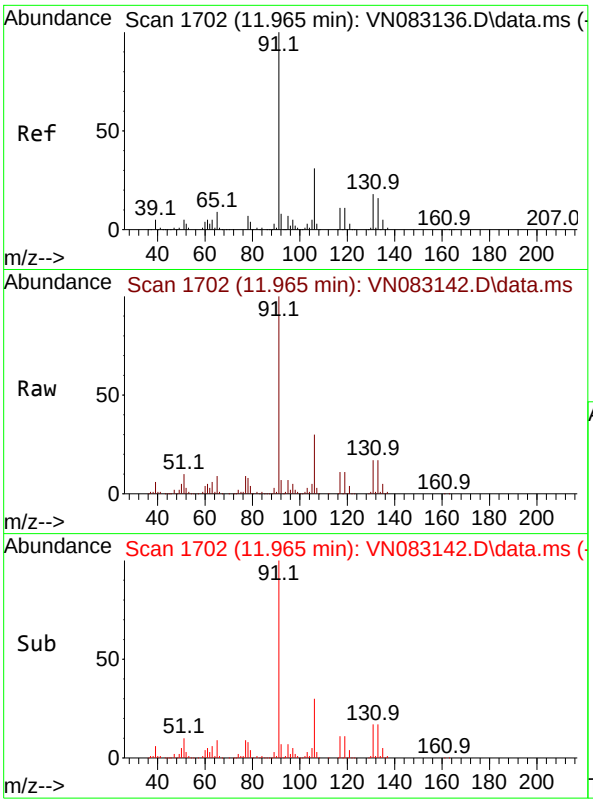


#66
1,1,1,2-Tetrachloroethane
Concen: 46.843 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

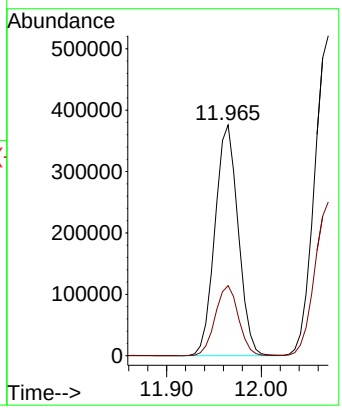




#67
Ethyl Benzene
Concen: 47.764 ug/l
RT: 11.965 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 91 Resp: 64082

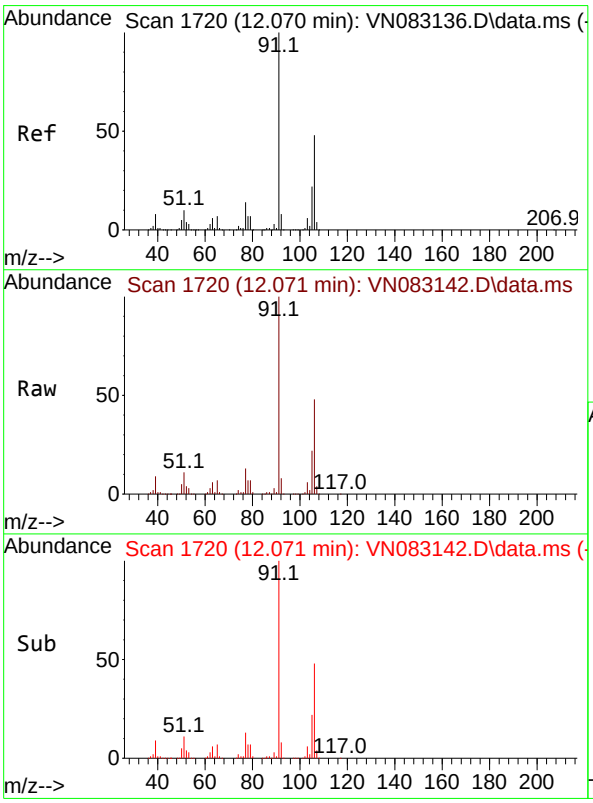
Ion	Ratio	Lower	Upper
91	100		
106	30.4	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

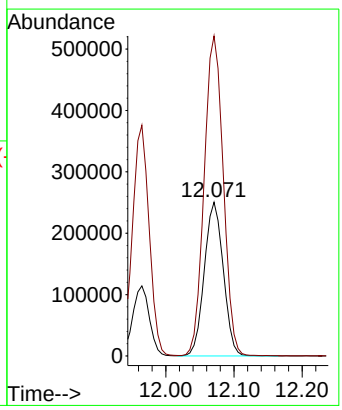
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

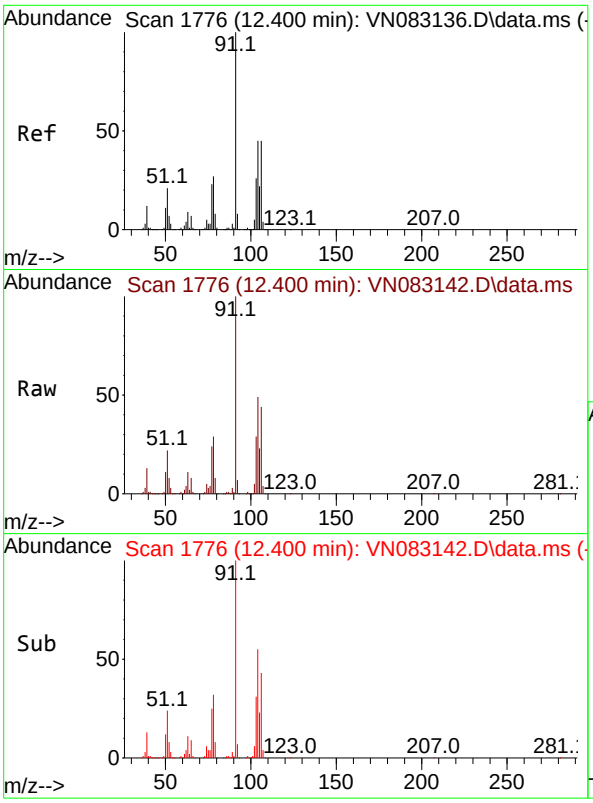


#68
m/p-Xylenes
Concen: 96.434 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

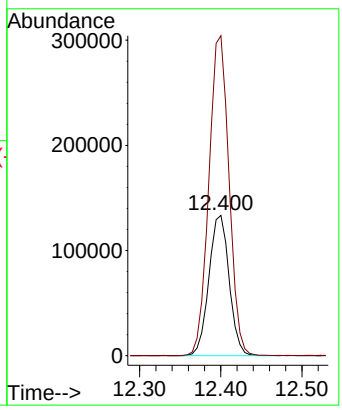
Tgt Ion:106 Resp: 23129

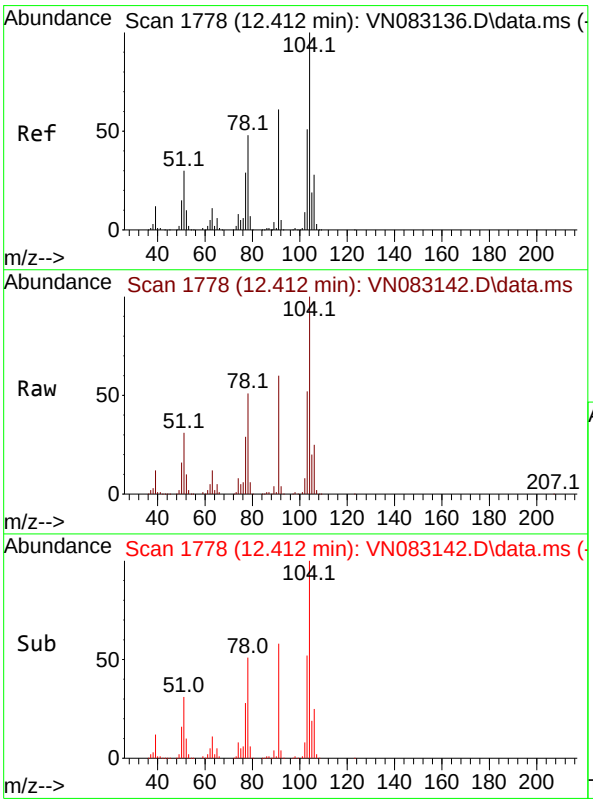
Ion	Ratio	Lower	Upper
106	100		
91	227.0	111.3	333.9

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

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

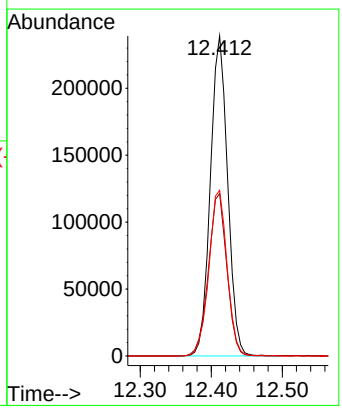


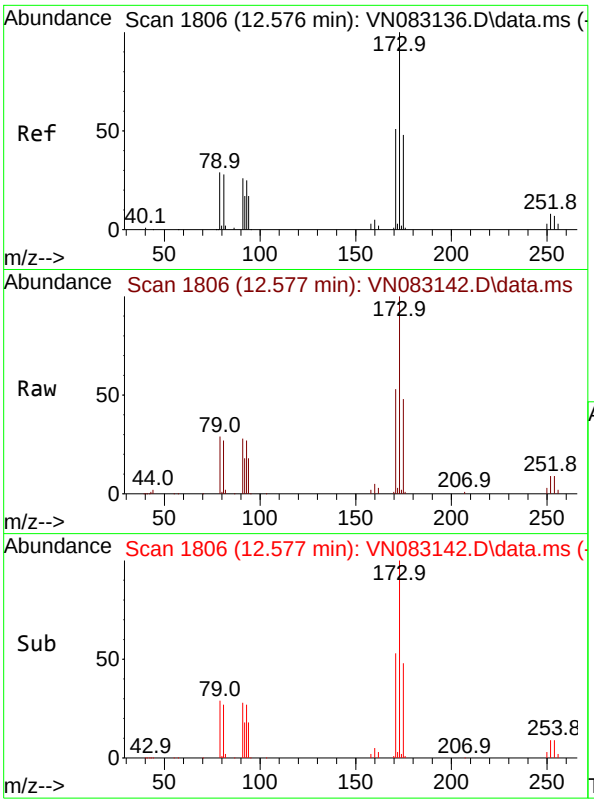


#70
Styrene
Concen: 48.487 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

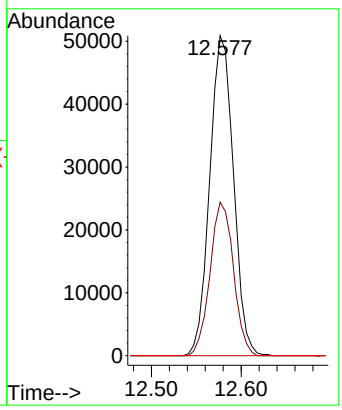




#71
Bromoform
Concen: 47.797 ug/l
RT: 12.577 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:173 Resp: 9339

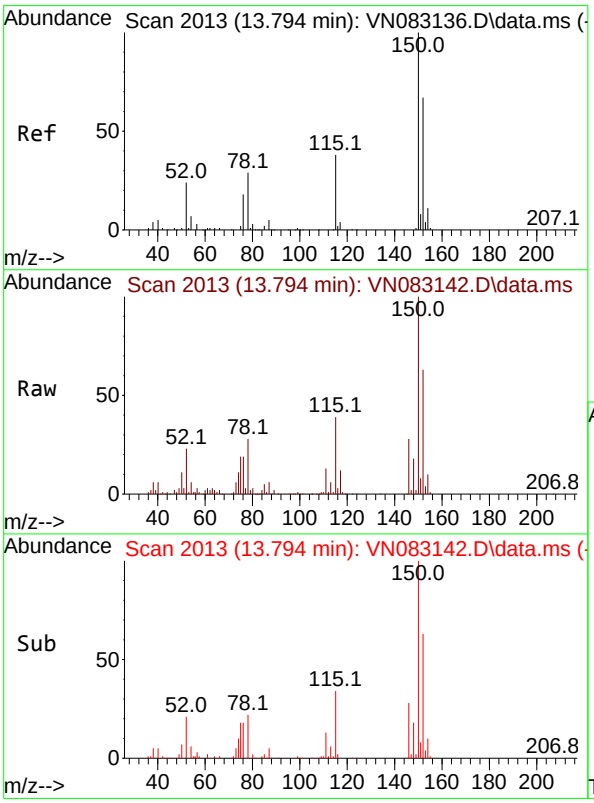
Ion	Ratio	Lower	Upper
173	100		
175	47.4	24.0	72.0
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

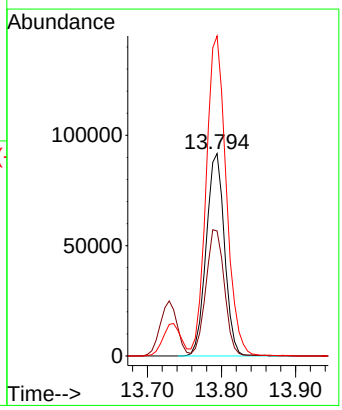
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

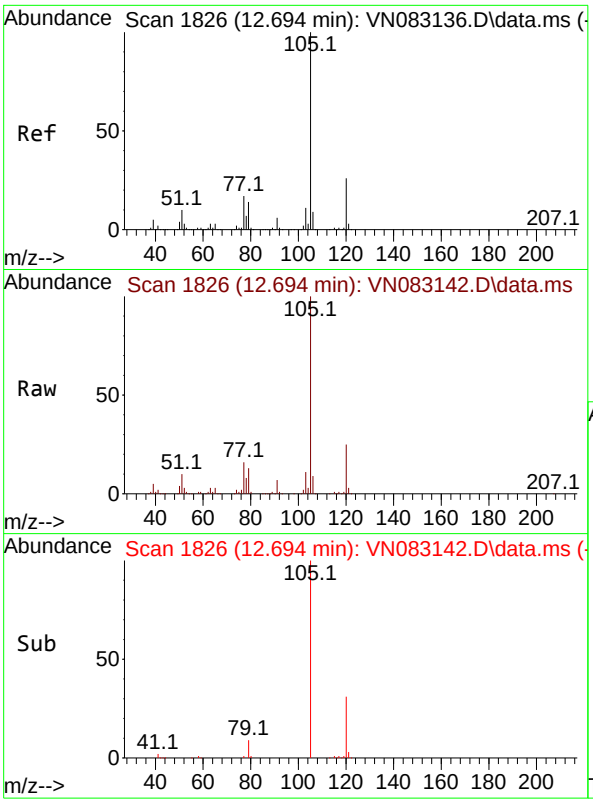


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

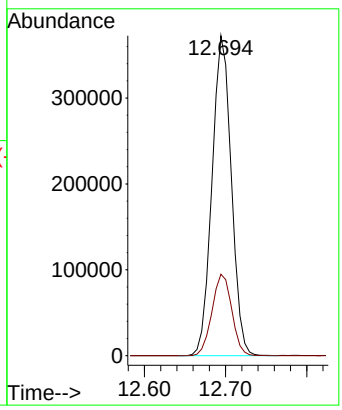




#73
Isopropylbenzene
Concen: 46.893 ug/l
RT: 12.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:105 Resp: 61654

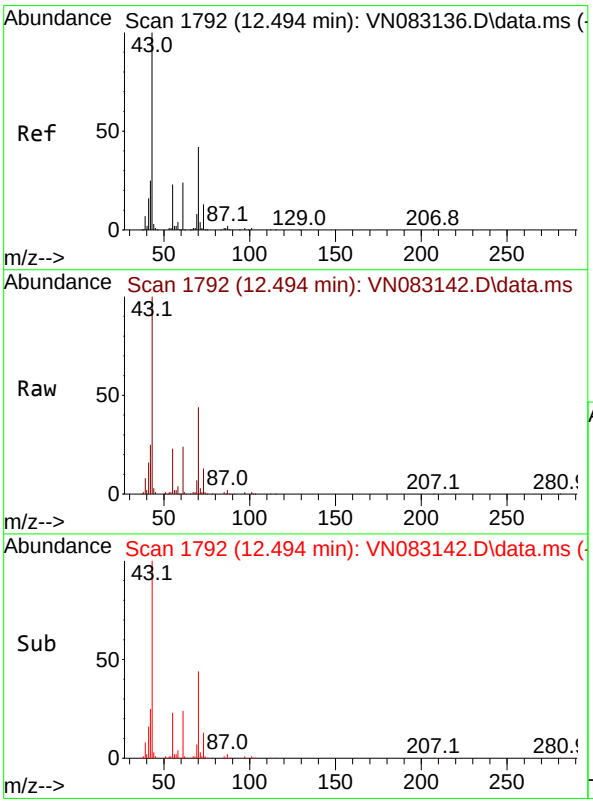
Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.9	38.6



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

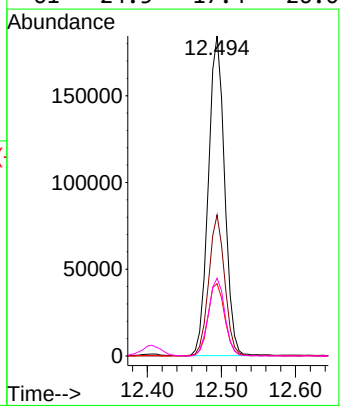
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

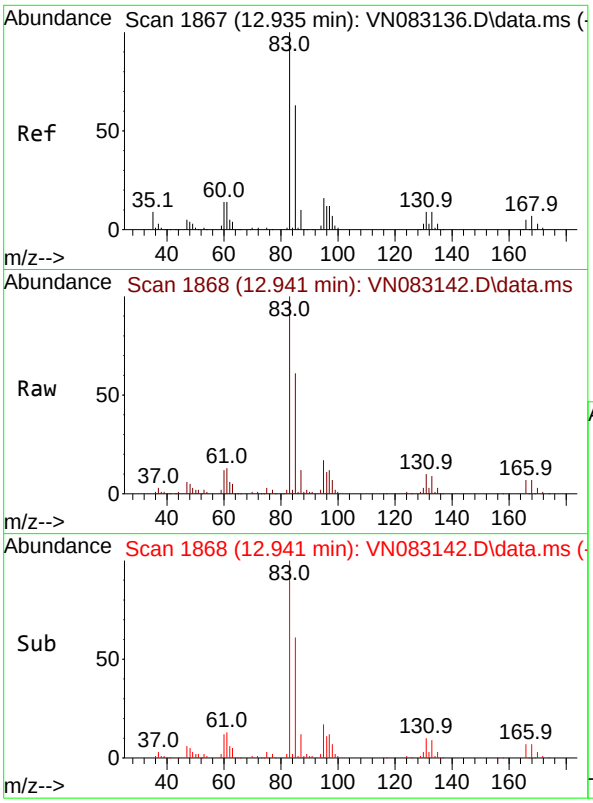


#74
N-amyl acetate
Concen: 43.748 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

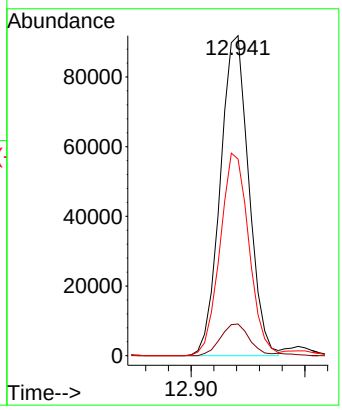
Tgt Ion: 83 Resp: 15996

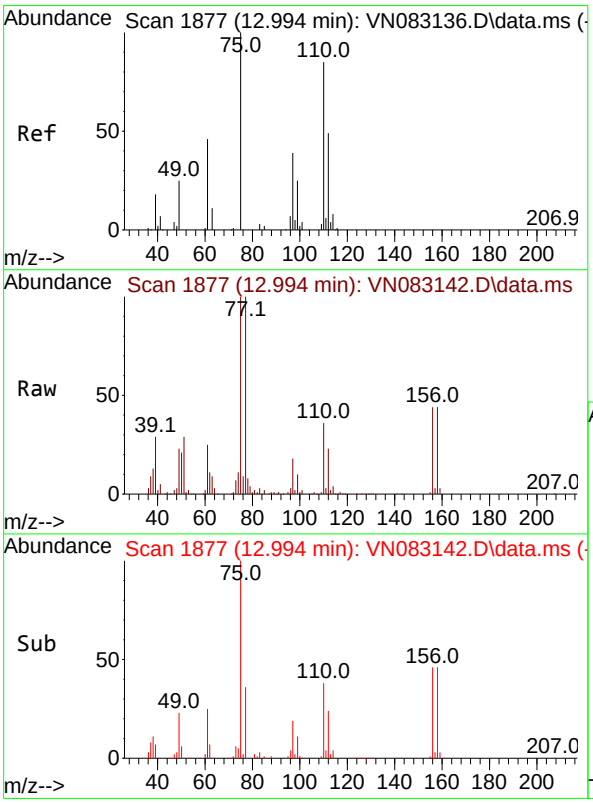
Ion	Ratio	Lower	Upper
83	100		
131	10.6	5.0	14.9
85	64.5	31.9	95.7

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

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

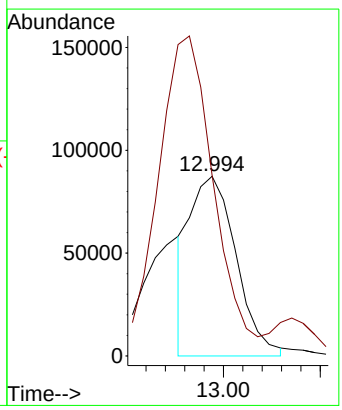


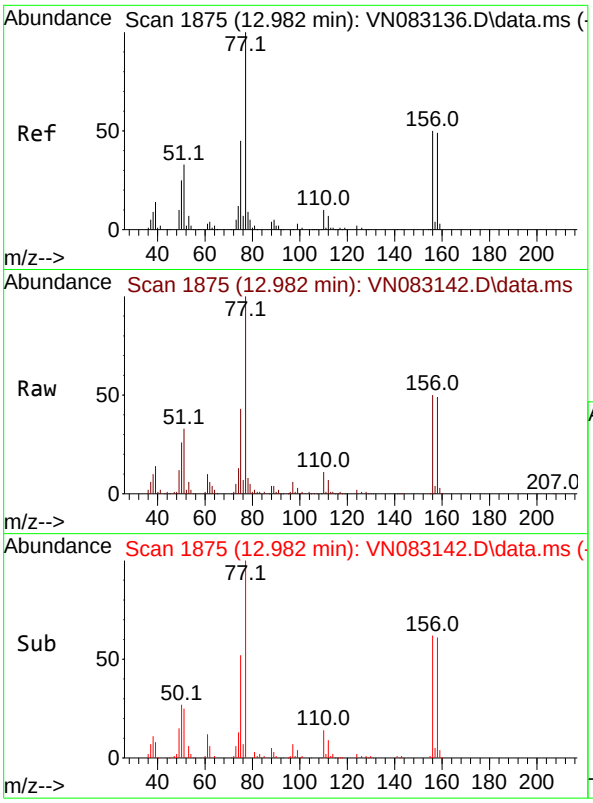


#76
1,2,3-Trichloropropane
Concen: 42.119 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 75 Resp: 145309

Ion	Ratio	Lower	Upper
75	100		
77	214.8	110.9	332.6

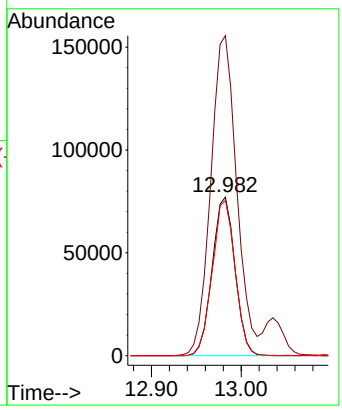




#77
Bromobenzene
Concen: 46.649 ug/l
RT: 12.982 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:156 Resp: 13624

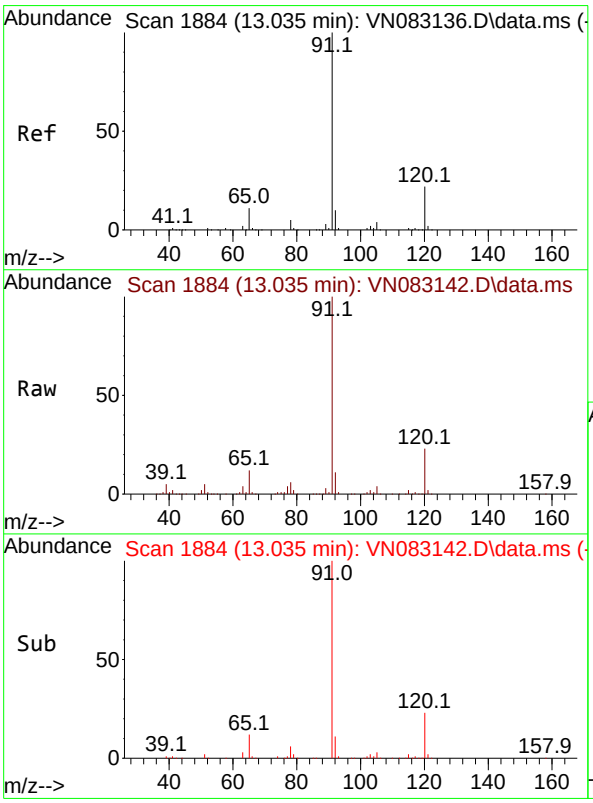
Ion	Ratio	Lower	Upper
156	100		
77	229.1	111.3	333.8
158	98.0	48.3	144.9



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

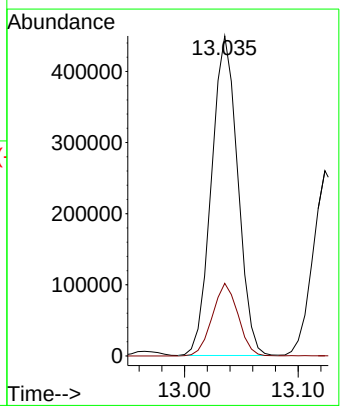
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

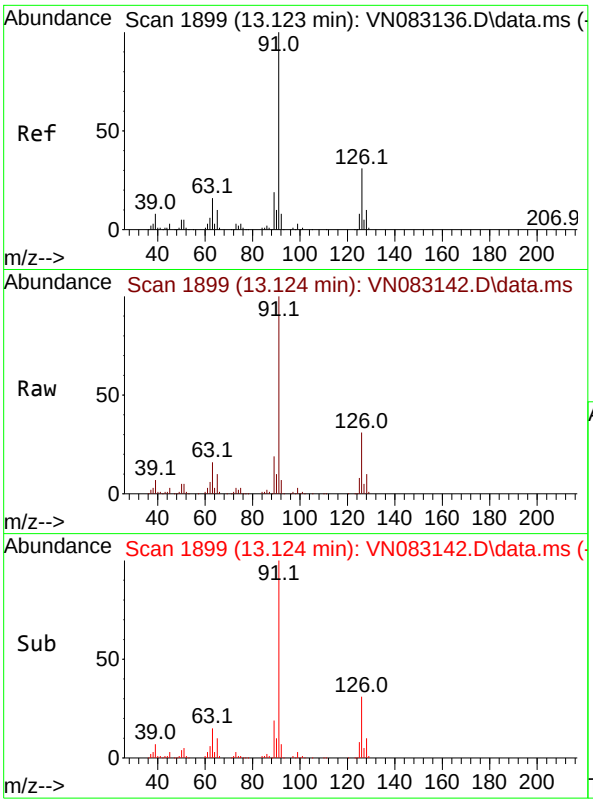


#78
n-propylbenzene
Concen: 47.678 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 91 Resp: 721825

Ion	Ratio	Lower	Upper
91	100		
120	22.2	10.9	32.9

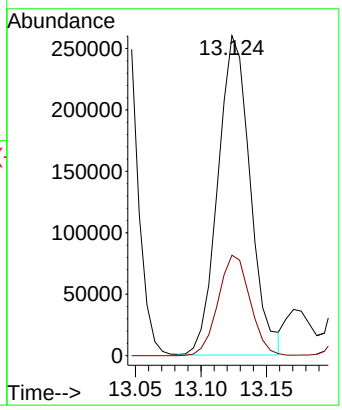




#79
2-Chlorotoluene
Concen: 46.398 ug/l
RT: 13.124 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 91 Resp: 44535

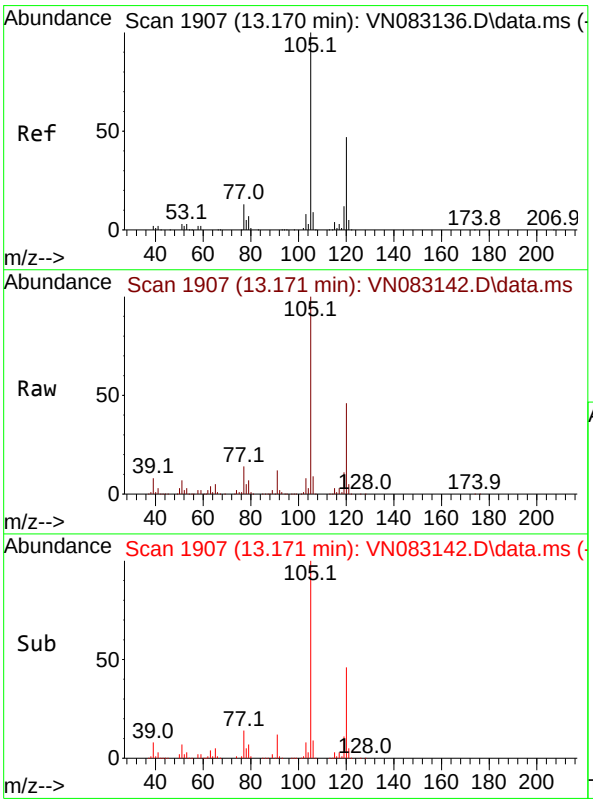
Ion	Ratio	Lower	Upper
91	100		
126	31.1	16.2	48.6



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

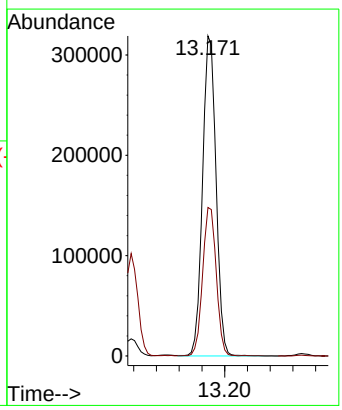
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

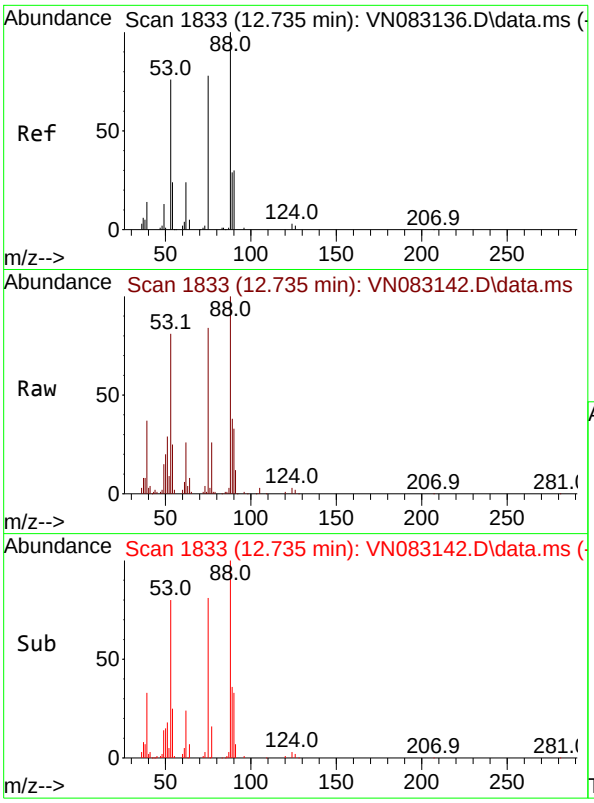


#80
1,3,5-Trimethylbenzene
Concen: 47.673 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:105 Resp: 524769

Ion	Ratio	Lower	Upper
105	100		
120	46.9	24.3	72.8

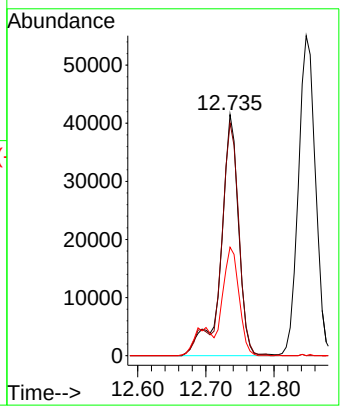




#81
trans-1,4-Dichloro-2-butene
Concen: 47.070 ug/l
RT: 12.735 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 75 Resp: 7465

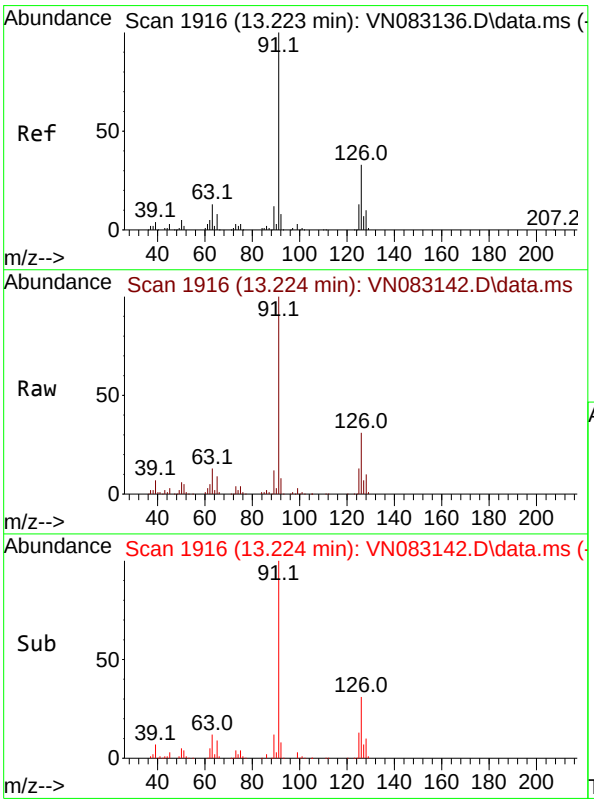
Ion	Ratio	Lower	Upper
75	100		
53	89.6	88.4	132.6
89	41.1	36.3	54.5



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

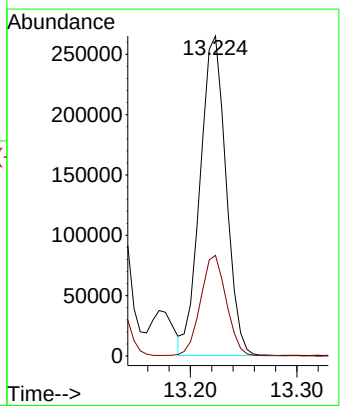
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

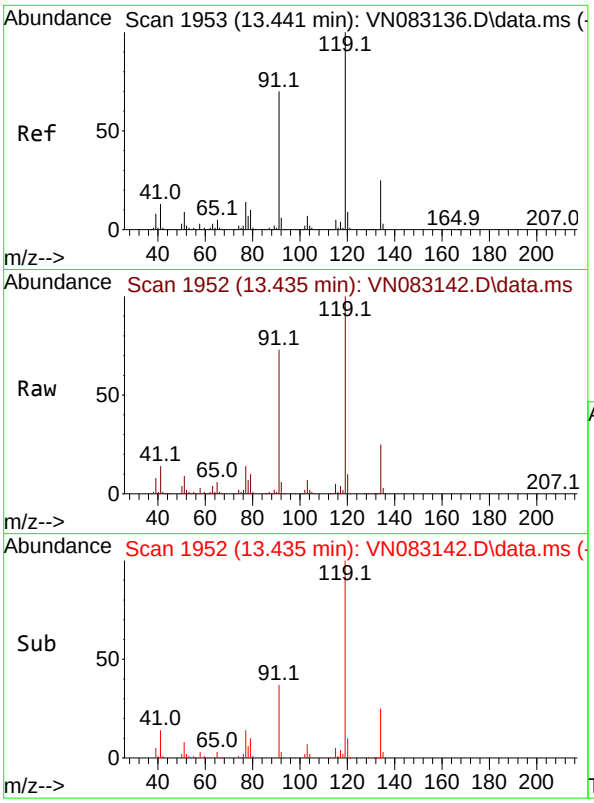


#82
4-Chlorotoluene
Concen: 46.512 ug/l
RT: 13.224 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 91 Resp: 447810

Ion	Ratio	Lower	Upper
91	100		
126	31.2	16.2	48.6

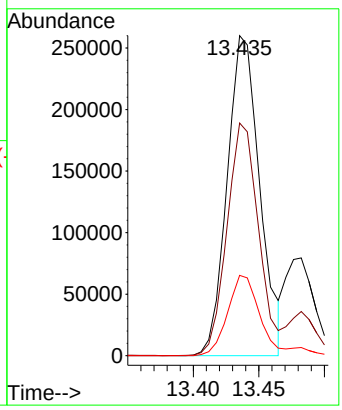




#83
tert-Butylbenzene
Concen: 46.173 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:119 Resp: 45010

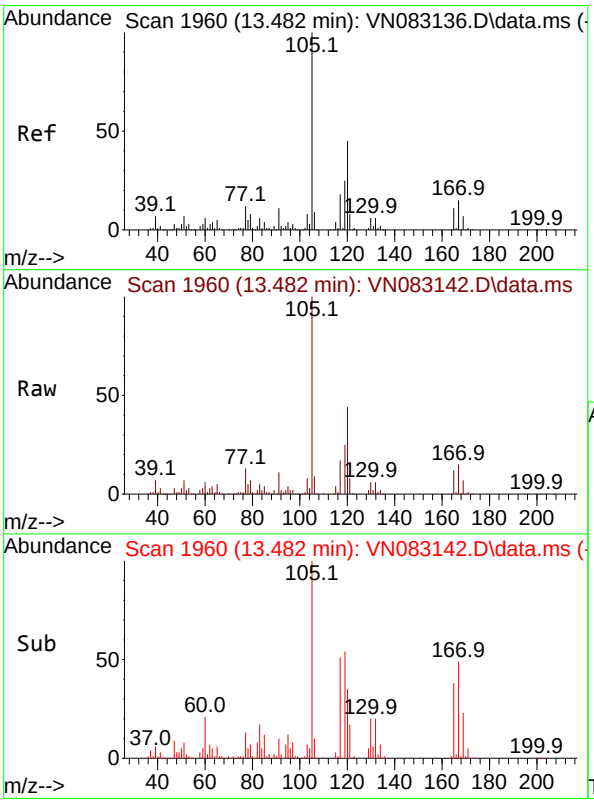
Ion	Ratio	Lower	Upper
119	100		
91	70.4	35.0	105.1
134	24.4	13.3	39.8



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

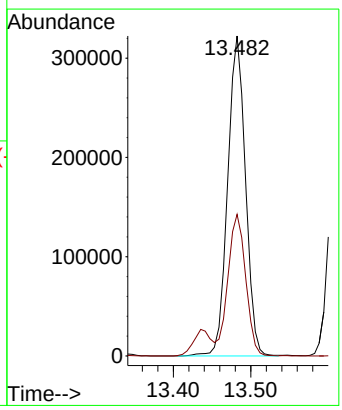
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

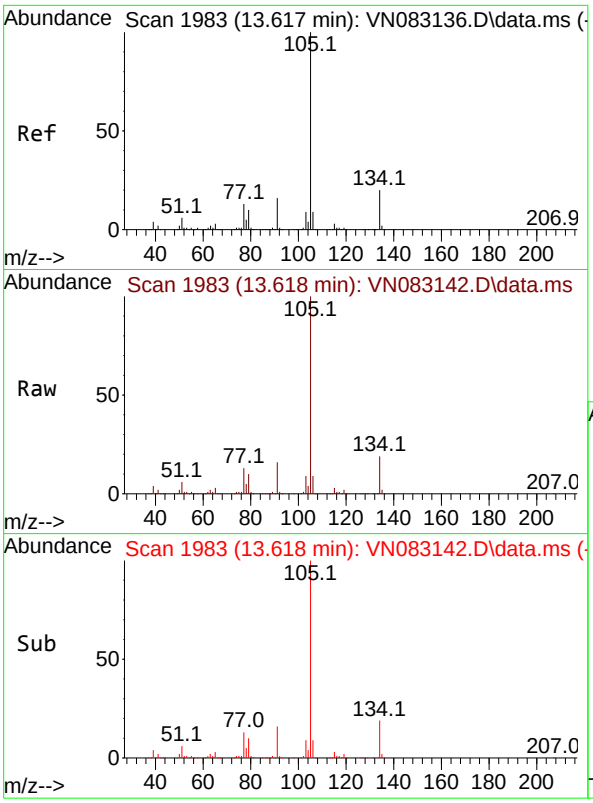


#84
1,2,4-Trimethylbenzene
Concen: 46.493 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:105 Resp: 515759

Ion	Ratio	Lower	Upper
105	100		
120	44.4	21.9	65.8

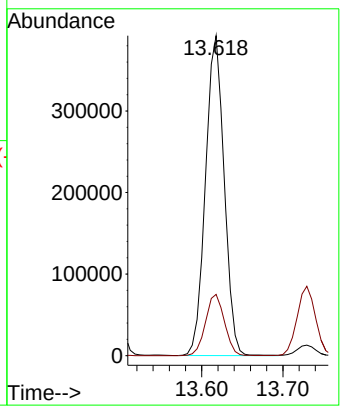




#85
sec-Butylbenzene
Concen: 47.018 ug/l
RT: 13.618 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:105 Resp: 62540

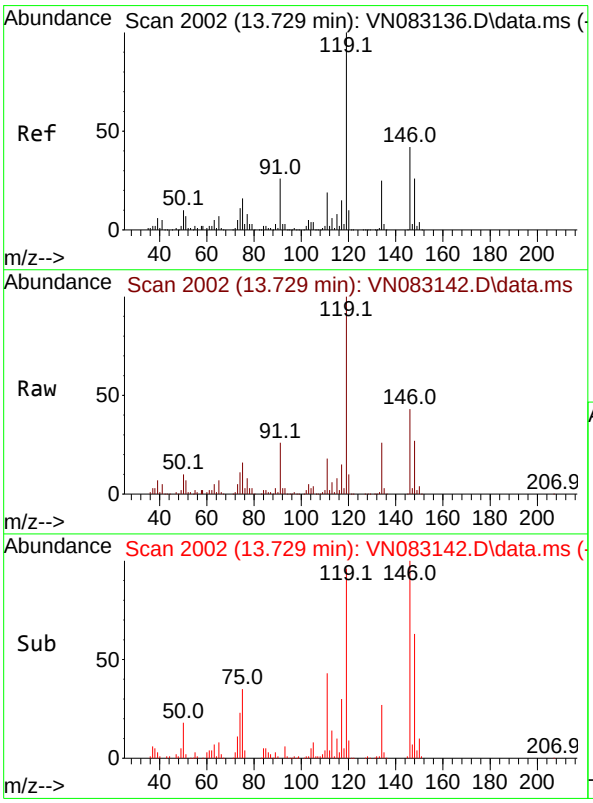
Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.8	29.3



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

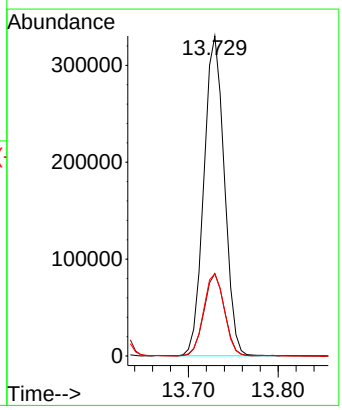
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

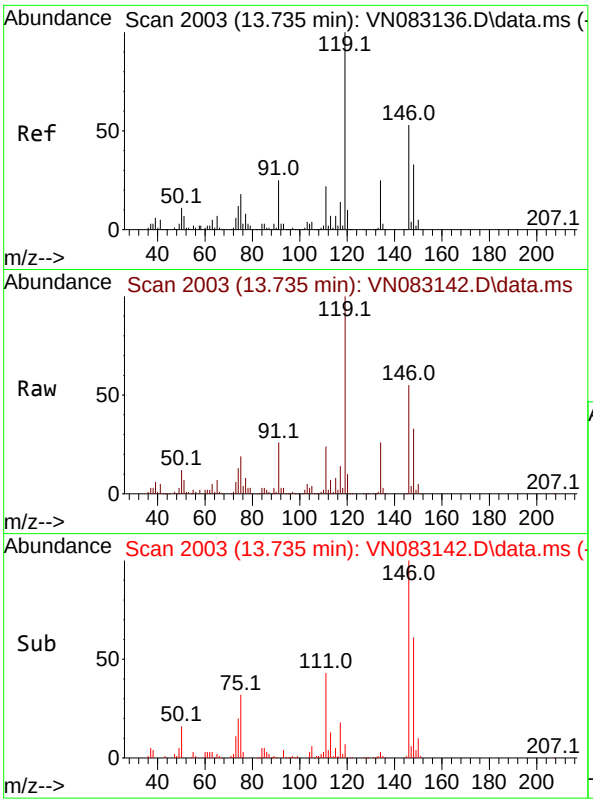


#86
p-Isopropyltoluene
Concen: 47.566 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

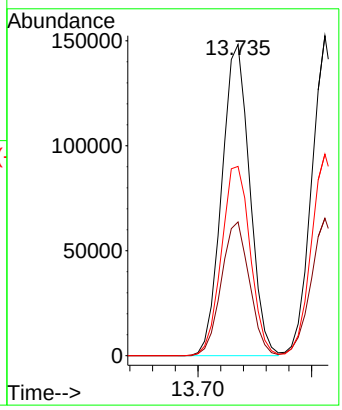




#87
1,3-Dichlorobenzene
Concen: 45.959 ug/l
RT: 13.735 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:146 Resp: 25257

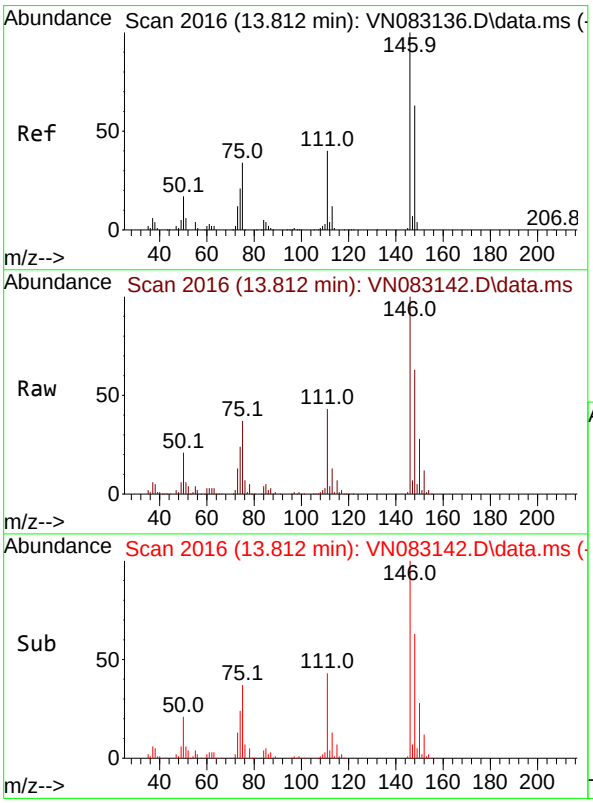
Ion	Ratio	Lower	Upper
146	100		
111	43.4	20.6	61.9
148	62.8	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

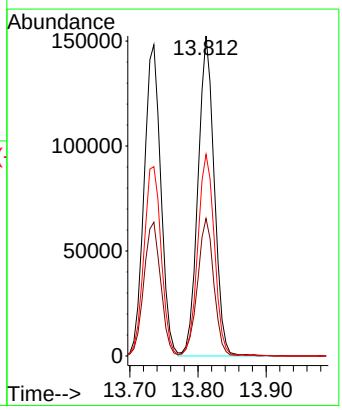
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

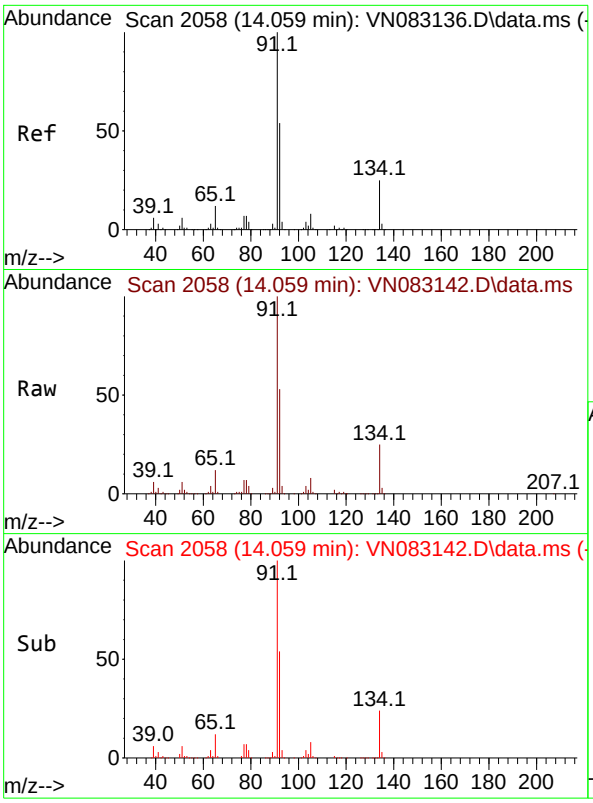


#88
1,4-Dichlorobenzene
Concen: 45.499 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

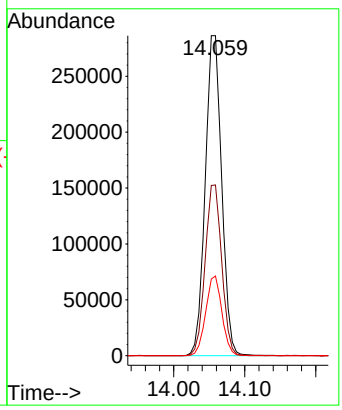




#89
n-Butylbenzene
Concen: 48.489 ug/l
RT: 14.059 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 91 Resp: 46144

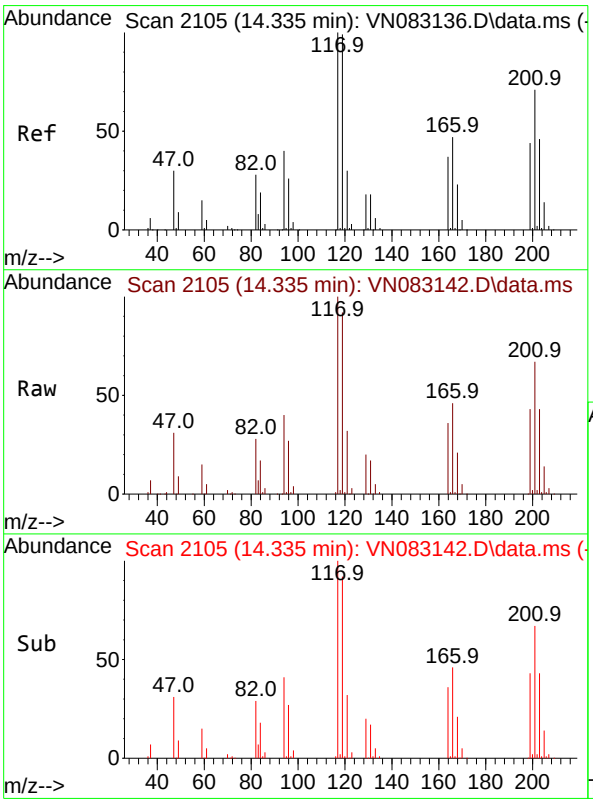
Ion	Ratio	Lower	Upper
91	100		
92	53.9	26.1	78.3
134	24.5	12.1	36.3



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

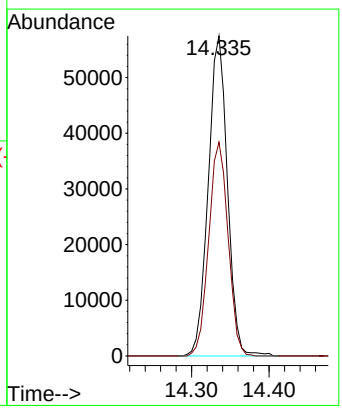
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

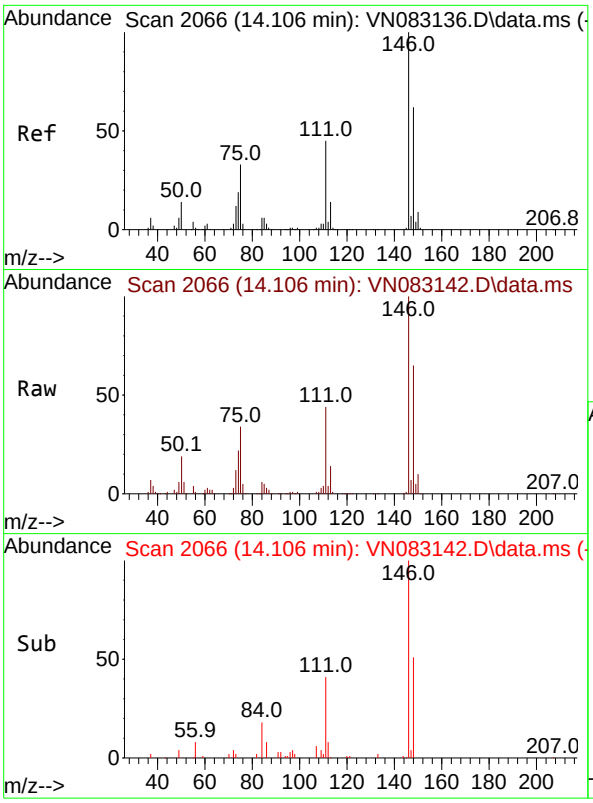


#90
Hexachloroethane
Concen: 46.741 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:117 Resp: 99176

Ion	Ratio	Lower	Upper
117	100		
201	67.3	35.8	107.3

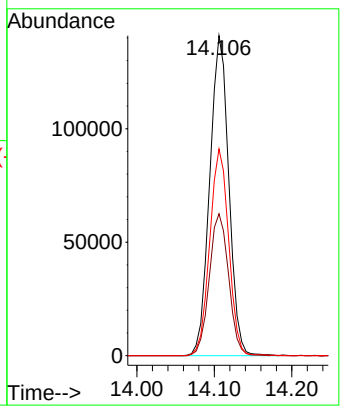




#91
1,2-Dichlorobenzene
Concen: 45.255 ug/l
RT: 14.106 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:146 Resp: 24067

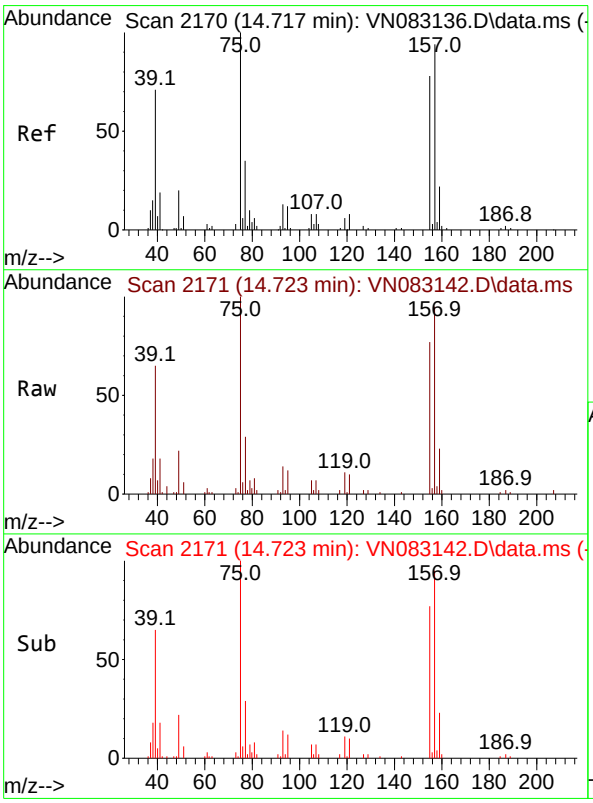
Ion	Ratio	Lower	Upper
146	100		
111	45.2	21.4	64.2
148	64.4	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

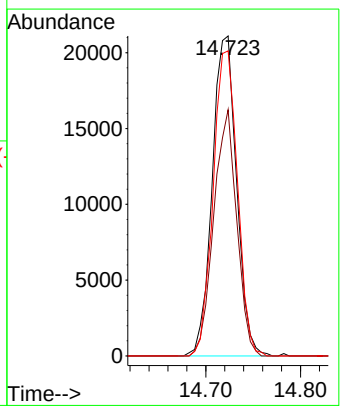
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

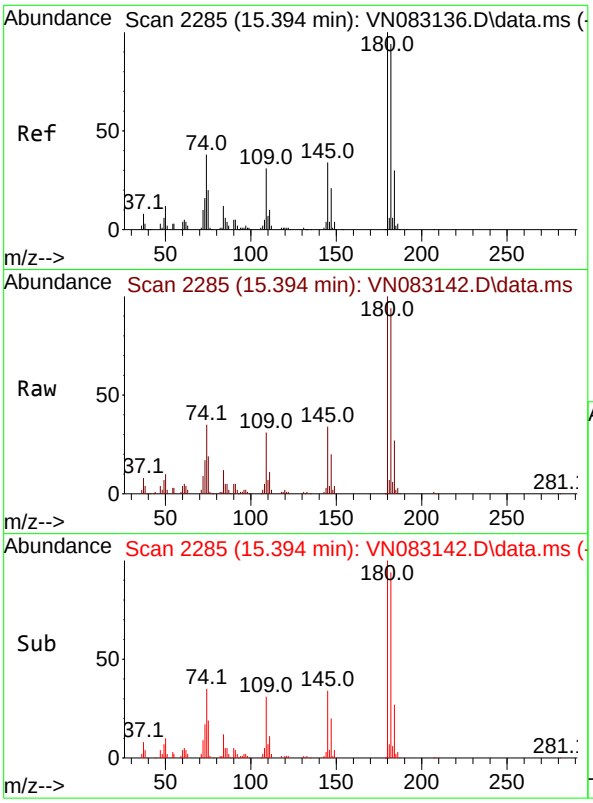


#92
1,2-Dibromo-3-Chloropropane
Concen: 41.753 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

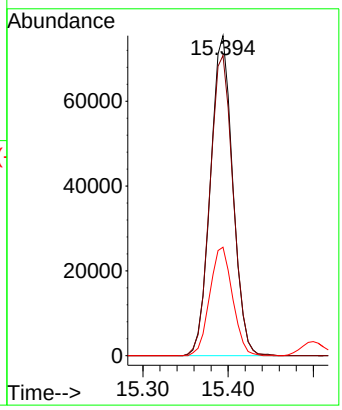




#93
1,2,4-Trichlorobenzene
Concen: 46.054 ug/l
RT: 15.394 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:180 Resp: 13721

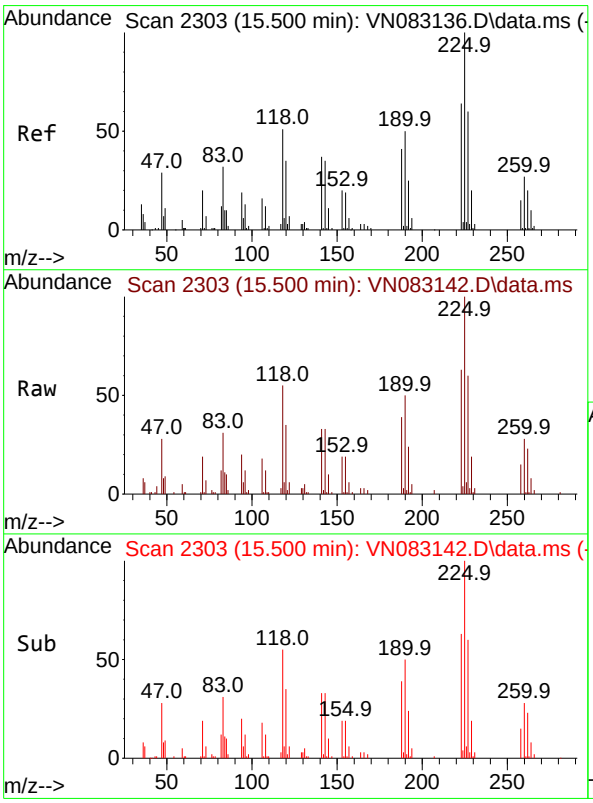
Ion	Ratio	Lower	Upper
180	100		
182	97.2	47.3	141.8
145	34.6	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

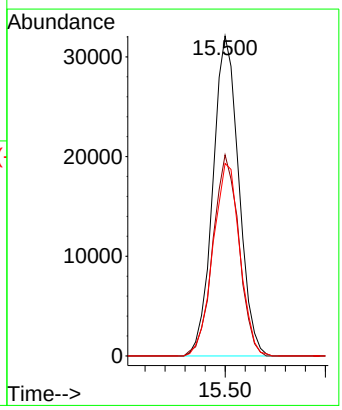
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

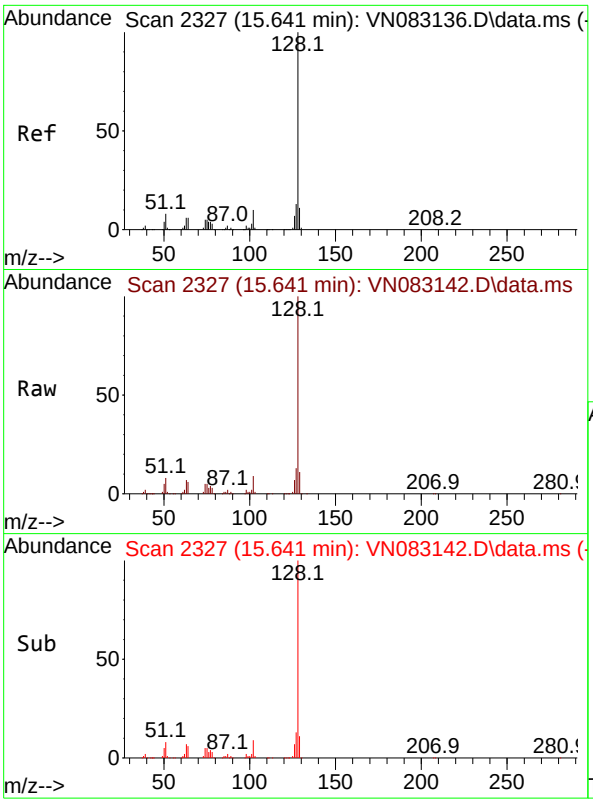


#94
Hexachlorobutadiene
Concen: 43.315 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

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

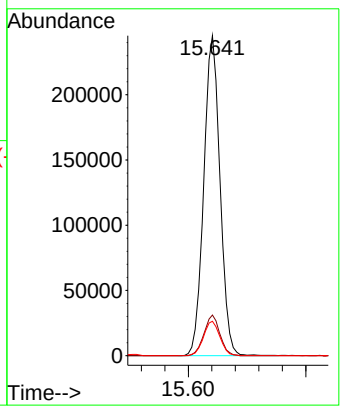




#95
Naphthalene
Concen: 44.692 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:128 Resp: 47167

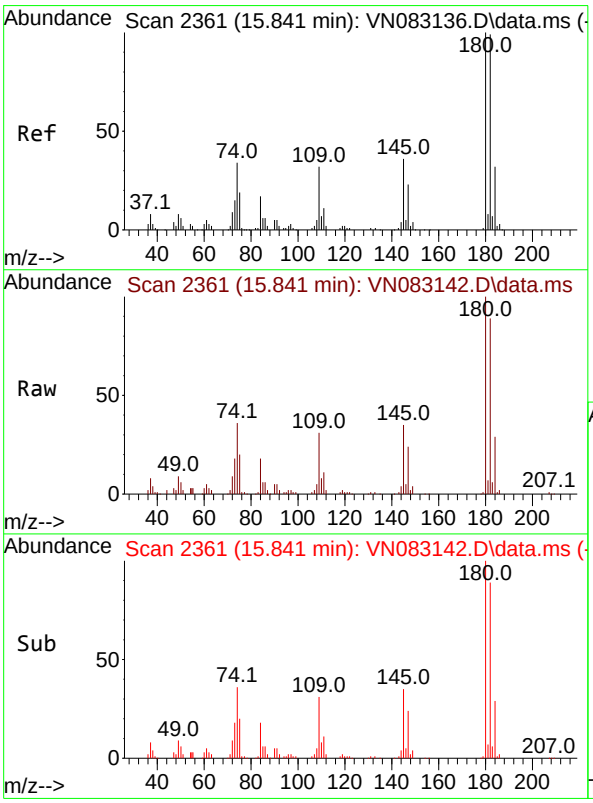
Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.6	16.0
129	10.8	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations APPROVED

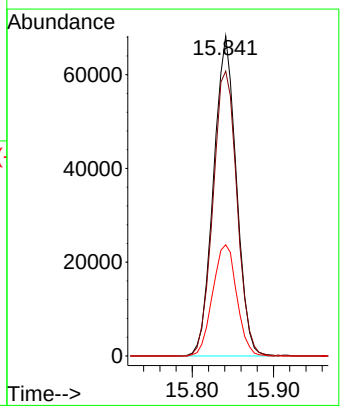
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083142.D
Acq On : 07 Aug 2024 14:49
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Quant Time: Aug 08 06:35:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	109	0.00
2	T	Dichlorodifluoromethane	0.567	0.534	5.8	102	0.00
3	P	Chloromethane	0.581	0.537	7.6	99	0.00
4	C	Vinyl Chloride	0.592	0.544	8.1#	99	0.00
5	T	Bromomethane	0.368	0.316	14.1	97	0.00
6	T	Chloroethane	0.371	0.324	12.7	99	0.00
7	T	Trichlorofluoromethane	0.979	0.922	5.8	101	0.00
8	T	Diethyl Ether	0.364	0.337	7.4	100	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.539	0.509	5.6	101	0.00
10	T	Methyl Iodide	0.710	0.672	5.4	99	0.00
11	T	Tert butyl alcohol	0.148	0.123	16.9	92	0.00
12	CM	1,1-Dichloroethene	0.554	0.505	8.8#	101	0.00
13	T	Acrolein	0.096	0.084	12.5	90	0.00
14	T	Allyl chloride	1.047	0.862	17.7	101	0.00
15	T	Acrylonitrile	0.304	0.265	12.8	95	0.00
16	T	Acetone	0.278	0.235	15.5	90	0.00
17	T	Carbon Disulfide	1.622	1.417	12.6	99	0.00
18	T	Methyl Acetate	0.830	0.704	15.2	99	0.00
19	T	Methyl tert-butyl Ether	2.001	1.872	6.4	101	0.00
20	T	Methylene Chloride	0.641	0.559	12.8	102	0.00
21	T	trans-1,2-Dichloroethene	0.573	0.523	8.7	99	-0.01
22	T	Diisopropyl ether	1.969	1.846	6.2	100	0.00
23	T	Vinyl Acetate	2.018	1.900	5.8	99	0.00
24	P	1,1-Dichloroethane	1.073	1.002	6.6	101	0.00
25	T	2-Butanone	0.428	0.362	15.4	93	0.00
26	T	2,2-Dichloropropane	0.997	0.954	4.3	102	0.00
27	T	cis-1,2-Dichloroethene	0.691	0.638	7.7	101	0.00
28	T	Bromochloromethane	0.439	0.403	8.2	100	0.00
29	T	Tetrahydrofuran	0.276	0.246	10.9	96	0.00
30	C	Chloroform	1.115	1.057	5.2#	101	0.00
31	T	Cyclohexane	1.055	0.917	13.1	102	0.00
32	T	1,1,1-Trichloroethane	1.055	0.995	5.7	101	0.00
33	S	1,2-Dichloroethane-d4	0.712	0.720	-1.1	105	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	109	0.00
35	S	Dibromofluoromethane	0.312	0.322	-3.2	106	0.00
36	T	1,1-Dichloropropene	0.472	0.451	4.4	103	0.00
37	T	Ethyl Acetate	0.529	0.456	13.8	100	0.00
38	T	Carbon Tetrachloride	0.532	0.509	4.3	102	0.00
39	T	Methylcyclohexane	0.580	0.555	4.3	101	0.00
40	TM	Benzene	1.406	1.340	4.7	101	0.00
41	T	Methacrylonitrile	0.301	0.259	14.0	99	0.00
42	TM	1,2-Dichloroethane	0.512	0.485	5.3	102	0.00
43	T	Isopropyl Acetate	1.211	0.841	30.6#	100	0.00
44	TM	Trichloroethene	0.335	0.321	4.2	102	0.00
45	C	1,2-Dichloropropane	0.334	0.322	3.6#	101	0.00
46	T	Dibromomethane	0.239	0.225	5.9	98	0.00
47	T	Bromodichloromethane	0.537	0.505	6.0	102	0.00
48	T	Methyl methacrylate	0.437	0.390	10.8	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083142.D
Acq On : 07 Aug 2024 14:49
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083142.D
Acq On : 07 Aug 2024 14:49
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Quant Time: Aug 08 06:35:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	109	0.00
2	T	Dichlorodifluoromethane	50.000	47.102	5.8	102	0.00
3	P	Chloromethane	50.000	46.238	7.5	99	0.00
4	C	Vinyl Chloride	50.000	45.937	8.1#	99	0.00
5	T	Bromomethane	50.000	42.984	14.0	97	0.00
6	T	Chloroethane	50.000	43.725	12.5	99	0.00
7	T	Trichlorofluoromethane	50.000	47.124	5.8	101	0.00
8	T	Diethyl Ether	50.000	46.259	7.5	100	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	47.176	5.6	101	0.00
10	T	Methyl Iodide	50.000	47.349	5.3	99	0.00
11	T	Tert butyl alcohol	250.000	208.135	16.7	92	0.00
12	CM	1,1-Dichloroethene	50.000	45.562	8.9#	101	0.00
13	T	Acrolein	250.000	217.571	13.0	90	0.00
14	T	Allyl chloride	50.000	41.173	17.7	101	0.00
15	T	Acrylonitrile	250.000	217.950	12.8	95	0.00
16	T	Acetone	250.000	210.840	15.7	90	0.00
17	T	Carbon Disulfide	50.000	43.689	12.6	99	0.00
18	T	Methyl Acetate	50.000	42.397	15.2	99	0.00
19	T	Methyl tert-butyl Ether	50.000	46.781	6.4	101	0.00
20	T	Methylene Chloride	50.000	43.645	12.7	102	0.00
21	T	trans-1,2-Dichloroethene	50.000	45.671	8.7	99	-0.01
22	T	Diisopropyl ether	50.000	46.881	6.2	100	0.00
23	T	Vinyl Acetate	250.000	235.414	5.8	99	0.00
24	P	1,1-Dichloroethane	50.000	46.685	6.6	101	0.00
25	T	2-Butanone	250.000	211.782	15.3	93	0.00
26	T	2,2-Dichloropropane	50.000	47.853	4.3	102	0.00
27	T	cis-1,2-Dichloroethene	50.000	46.113	7.8	101	0.00
28	T	Bromochloromethane	50.000	45.986	8.0	100	0.00
29	T	Tetrahydrofuran	250.000	222.147	11.1	96	0.00
30	C	Chloroform	50.000	47.387	5.2#	101	0.00
31	T	Cyclohexane	50.000	43.474	13.1	102	0.00
32	T	1,1,1-Trichloroethane	50.000	47.135	5.7	101	0.00
33	S	1,2-Dichloroethane-d4	50.000	50.583	-1.2	105	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	109	0.00
35	S	Dibromofluoromethane	50.000	51.549	-3.1	106	0.00
36	T	1,1-Dichloropropene	50.000	47.732	4.5	103	0.00
37	T	Ethyl Acetate	50.000	43.124	13.8	100	0.00
38	T	Carbon Tetrachloride	50.000	47.904	4.2	102	0.00
39	T	Methylcyclohexane	50.000	47.821	4.4	101	0.00
40	TM	Benzene	50.000	47.635	4.7	101	0.00
41	T	Methacrylonitrile	50.000	43.013	14.0	99	0.00
42	TM	1,2-Dichloroethane	50.000	47.310	5.4	102	0.00
43	T	Isopropyl Acetate	50.000	45.577	8.8	100	0.00
44	TM	Trichloroethene	50.000	47.994	4.0	102	0.00
45	C	1,2-Dichloropropane	50.000	48.208	3.6#	101	0.00
46	T	Dibromomethane	50.000	47.124	5.8	98	0.00
47	T	Bromodichloromethane	50.000	47.047	5.9	102	0.00
48	T	Methyl methacrylate	50.000	44.609	10.8	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083142.D
Acq On : 07 Aug 2024 14:49
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
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

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

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.: P3429 SAS No.: P3429 SDG No.: P3429

Instrument ID: MSVOA_N Calibration Date/Time: 08/12/2024 09:48

Lab File ID: VN083225.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	0.591		4.23	20
Chloromethane	0.581	0.583	0.1	0.34	20
Vinyl Chloride	0.592	0.608		2.7	20
Bromomethane	0.368	0.385		4.62	20
1,1,2-Trichlorotrifluoroethane	0.539	0.582		7.98	20
Acetone	0.278	0.307		10.43	20
Carbon Disulfide	1.622	1.491		-8.08	20
Methyl tert-butyl Ether	2.001	2.059		2.9	20
Methylene Chloride	0.641	0.615		-4.06	20
trans-1,2-Dichloroethene	0.573	0.569		-0.7	20
Cyclohexane	1.055	0.991		-6.07	20
2-Butanone	0.428	0.411		-3.97	20
Carbon Tetrachloride	0.532	0.586		10.15	20
cis-1,2-Dichloroethene	0.691	0.707		2.32	20
Chloroform	1.115	1.206		8.16	20
1,1,1-Trichloroethane	1.055	1.119		6.07	20
Methylcyclohexane	0.580	0.609		5	20
Benzene	1.406	1.496		6.4	20
1,2-Dichloroethane	0.512	0.557		8.79	20
Trichloroethene	0.335	0.356		6.27	20
Bromodichloromethane	0.537	0.580		8.01	20
Toluene	0.889	0.963		8.32	20
1,1,2-Trichloroethane	0.318	0.347		9.12	20
Dibromochloromethane	0.385	0.425		10.39	20
Tetrachloroethene	0.331	0.353		6.65	20
Chlorobenzene	1.105	1.171	0.3	5.97	20
Ethyl Benzene	2.027	2.160		6.56	20
m/p-Xylenes	0.759	0.814		7.25	20
o-Xylene	0.749	0.784		4.67	20
Isopropylbenzene	4.182	4.339		3.75	20
1,4-Dichlorobenzene	1.762	1.825		3.58	20
1,2-Dichlorobenzene	1.692	1.726		2.01	20
1,2-Dichloroethane-d4	0.712	0.796		11.8	20
Dibromofluoromethane	0.312	0.343		9.94	20
Toluene-d8	1.164	1.296		11.34	20
4-Bromofluorobenzene	0.454	0.507		11.67	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\VN081224\
Data File : VN083225.D
Acq On : 12 Aug 2024 09:48
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 13 04:10:33 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 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	8.224	168	179688	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	304896	50.000 ug/l	0.00
63) Chlorobenzene-d5	11.865	117	267164	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	128278	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	8.577	65	143028	55.922 ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.840%		
35) Dibromofluoromethane	8.165	113	104502	54.912 ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.820%		
50) Toluene-d8	10.565	98	395152	55.663 ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 111.320%		
62) 4-Bromofluorobenzene	12.847	95	154465	55.812 ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 111.620%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.124	85	106167	52.102 ug/l	97
3) Chloromethane	2.365	50	104742	50.208 ug/l	99
4) Vinyl Chloride	2.518	62	109254	51.324 ug/l	97
5) Bromomethane	2.948	94	69185	52.379 ug/l	96
6) Chloroethane	3.118	64	68932	51.759 ug/l	98
7) Trichlorofluoromethane	3.495	101	189534	53.897 ug/l	100
8) Diethyl Ether	3.959	74	65541	50.087 ug/l	85
9) 1,1,2-Trichlorotrifluo...	4.371	101	104659	53.981 ug/l	99
10) Methyl Iodide	4.583	142	129623	50.825 ug/l	96
11) Tert butyl alcohol	5.524	59	127596	240.055 ug/l	98
12) 1,1-Dichloroethene	4.342	96	97400	48.898 ug/l	91
13) Acrolein	4.177	56	87627	252.950 ug/l	99
14) Allyl chloride	5.018	41	165647	44.007 ug/l	94
15) Acrylonitrile	5.718	53	262352	239.993 ug/l	100
16) Acetone	4.424	43	275489	275.268 ug/l	98
17) Carbon Disulfide	4.712	76	267918	45.969 ug/l	99
18) Methyl Acetate	5.018	43	147849	49.583 ug/l	92
19) Methyl tert-butyl Ether	5.795	73	370016	51.465 ug/l	99
20) Methylene Chloride	5.271	84	110503	47.976 ug/l	83
21) trans-1,2-Dichloroethene	5.783	96	102315	49.699 ug/l	89
22) Diisopropyl ether	6.671	45	368873	52.134 ug/l	95
23) Vinyl Acetate	6.600	43	1888229	260.362 ug/l	95
24) 1,1-Dichloroethane	6.565	63	202988	52.633 ug/l	98
25) 2-Butanone	7.483	43	369634	240.537 ug/l	93
26) 2,2-Dichloropropane	7.489	77	200252	55.911 ug/l	99
27) cis-1,2-Dichloroethene	7.489	96	126965	51.108 ug/l	95
28) Bromochloromethane	7.812	49	81813	51.908 ug/l	86
29) Tetrahydrofuran	7.836	42	234788	236.354 ug/l	89
30) Chloroform	7.965	83	216764	54.100 ug/l	99
31) Cyclohexane	8.253	56	178073	46.981 ug/l	94
32) 1,1,1-Trichloroethane	8.165	97	201020	53.003 ug/l	97
36) 1,1-Dichloropropene	8.371	75	151169	52.510 ug/l	100
37) Ethyl Acetate	7.559	43	151279	46.932 ug/l #	98
38) Carbon Tetrachloride	8.359	117	178753	55.128 ug/l	97
39) Methylcyclohexane	9.600	83	185545	52.473 ug/l	93
40) Benzene	8.606	78	456196	53.193 ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081224\
Data File : VN083225.D
Acq On : 12 Aug 2024 09:48
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 13 04:10:33 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 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.771	41	88370	48.217 ug/l		96
42) 1,2-Dichloroethane	8.671	62	169788	54.347 ug/l		99
43) Isopropyl Acetate	8.689	43	282277	50.529 ug/l	#	94
44) Trichloroethene	9.353	130	108403	53.104 ug/l		93
45) 1,2-Dichloropropane	9.618	63	109843	53.957 ug/l		98
46) Dibromomethane	9.712	93	79172	54.334 ug/l		99
47) Bromodichloromethane	9.888	83	176954	54.085 ug/l		100
48) Methyl methacrylate	9.677	41	131746	49.438 ug/l		93
49) 1,4-Dioxane	9.700	88	43204	898.633 ug/l		97
51) 4-Methyl-2-Pentanone	10.447	43	772166	253.325 ug/l		93
52) Toluene	10.630	92	293708	54.202 ug/l		98
53) t-1,3-Dichloropropene	10.835	75	185568	55.216 ug/l		99
54) cis-1,3-Dichloropropene	10.312	75	193978	54.265 ug/l		92
55) 1,1,2-Trichloroethane	11.018	97	105866	54.516 ug/l		97
56) Ethyl methacrylate	10.871	69	190644	52.076 ug/l		88
57) 1,3-Dichloropropane	11.165	76	187296	54.111 ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	400965	259.113 ug/l		96
59) 2-Hexanone	11.194	43	593714	251.771 ug/l		93
60) Dibromochloromethane	11.359	129	129486	55.151 ug/l		100
61) 1,2-Dibromoethane	11.471	107	108519	53.196 ug/l		97
64) Tetrachloroethene	11.106	164	94303	53.298 ug/l		97
65) Chlorobenzene	11.894	112	312834	52.987 ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.959	131	111819	53.701 ug/l		98
67) Ethyl Benzene	11.965	91	576944	53.269 ug/l		99
68) m/p-Xylenes	12.071	106	434899	107.195 ug/l		98
69) o-Xylene	12.400	106	209334	52.315 ug/l		98
70) Styrene	12.412	104	362959	54.007 ug/l		98
71) Bromoform	12.576	173	85089	53.942 ug/l	#	100
73) Isopropylbenzene	12.694	105	556582	51.874 ug/l		99
74) N-amyl acetate	12.494	43	244139	46.518 ug/l		95
75) 1,1,2,2-Tetrachloroethane	12.935	83	147975	48.762 ug/l		98
76) 1,2,3-Trichloropropane	12.994	75	135692m	48.197 ug/l		
77) Bromobenzene	12.982	156	124716	52.326 ug/l		96
78) n-propylbenzene	13.035	91	654772	52.997 ug/l		99
79) 2-Chlorotoluene	13.124	91	404389	51.627 ug/l		97
80) 1,3,5-Trimethylbenzene	13.171	105	471752	52.517 ug/l		98
81) trans-1,4-Dichloro-2-b...	12.735	75	60244	46.546 ug/l		93
82) 4-Chlorotoluene	13.224	91	410875	52.295 ug/l		97
83) tert-Butylbenzene	13.441	119	410725	51.631 ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	477317	52.727 ug/l		99
85) sec-Butylbenzene	13.618	105	567147	52.249 ug/l		100
86) p-Isopropyltoluene	13.729	119	479994	53.556 ug/l		98
87) 1,3-Dichlorobenzene	13.735	146	232420	51.823 ug/l		98
88) 1,4-Dichlorobenzene	13.812	146	234120	51.781 ug/l		98
89) n-Butylbenzene	14.053	91	431446	55.556 ug/l		99
90) Hexachloroethane	14.335	117	90014	51.985 ug/l		93
91) 1,2-Dichlorobenzene	14.106	146	221401	51.015 ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.718	75	33146	45.011 ug/l		98
93) 1,2,4-Trichlorobenzene	15.394	180	127272	52.346 ug/l		98
94) Hexachlorobutadiene	15.500	225	52994	49.009 ug/l		98
95) Naphthalene	15.641	128	420146	48.783 ug/l		99
96) 1,2,3-Trichlorobenzene	15.841	180	122246	50.813 ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081224\
Data File : VN083225.D
Acq On : 12 Aug 2024 09:48
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 13 04:10:33 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 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

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

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

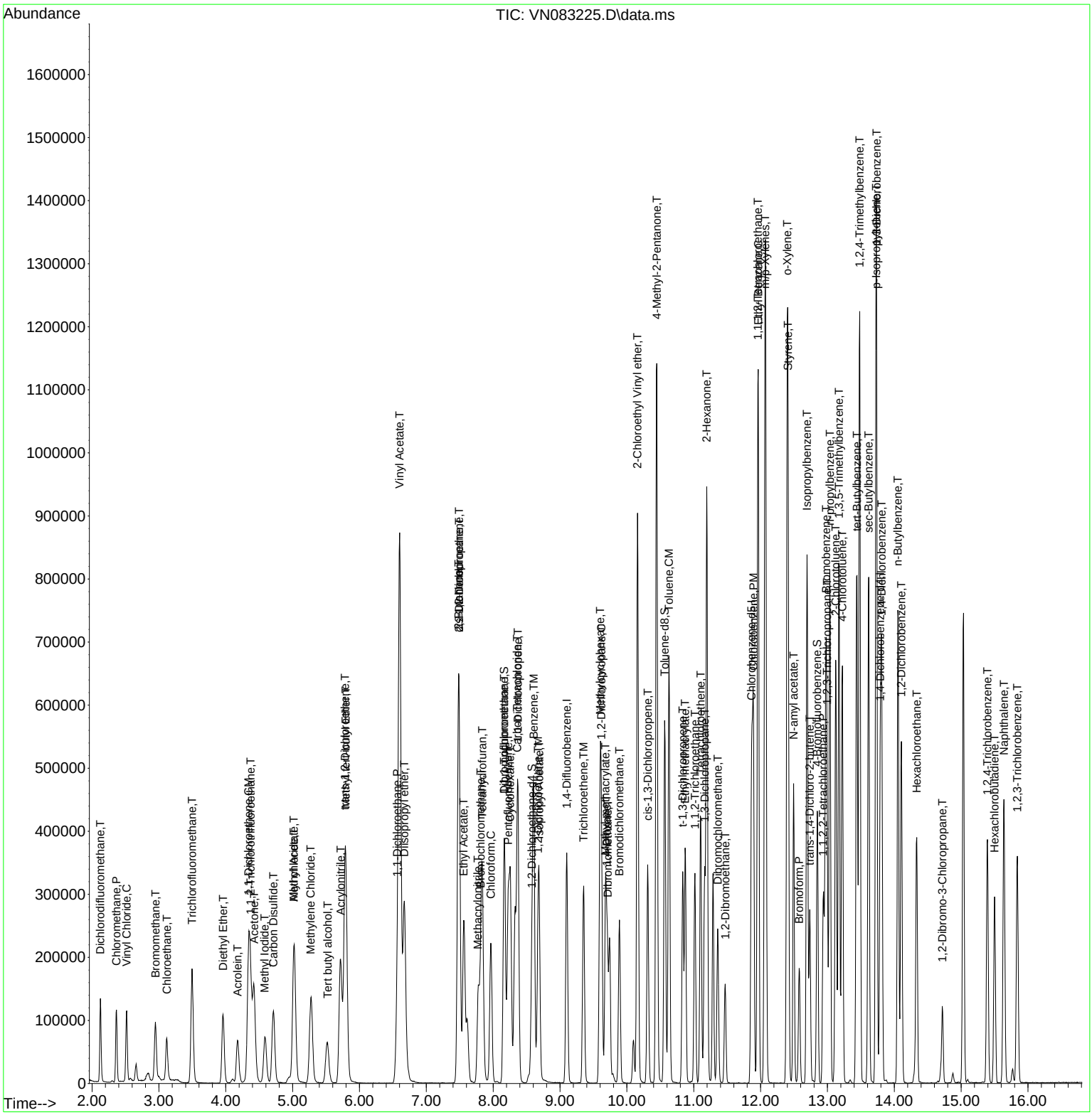
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081224\
Data File : VN083225.D
Acq On : 12 Aug 2024 09:48
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

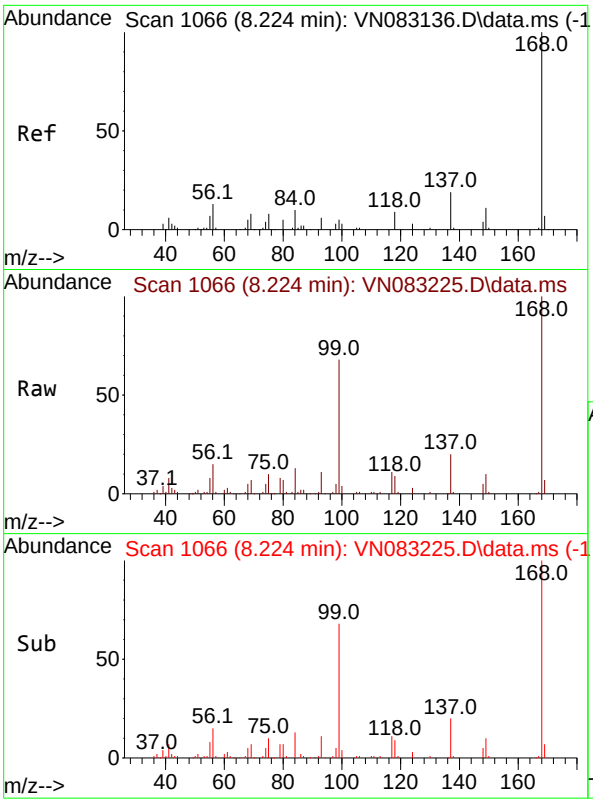
Quant Time: Aug 13 04:10:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

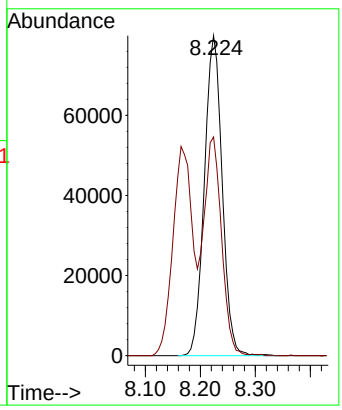




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion:168 Resp: 17968

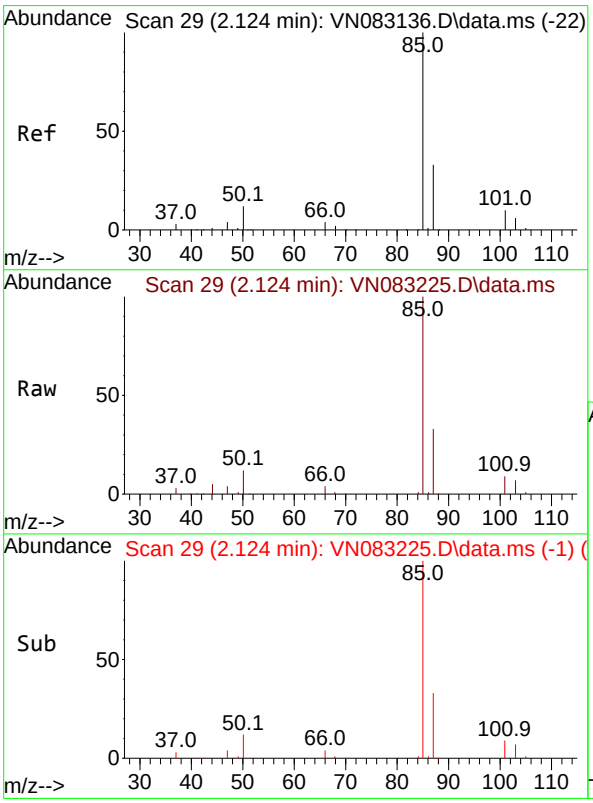
Ion	Ratio	Lower	Upper
168	100		
99	68.3	48.2	72.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

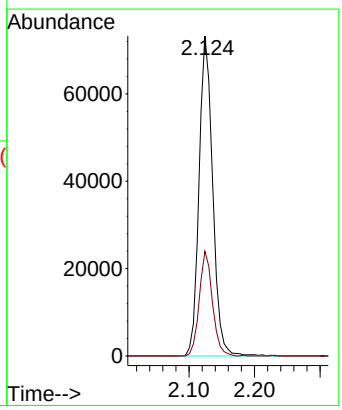
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

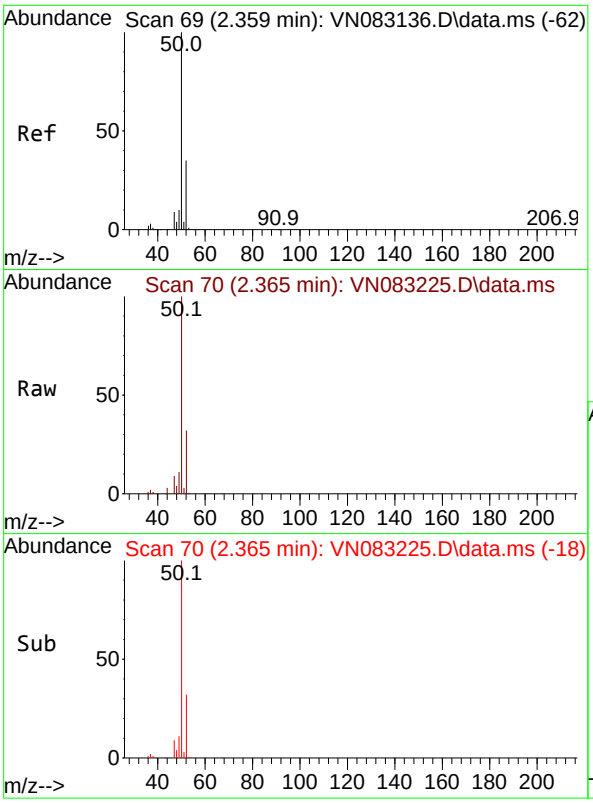


#2
Dichlorodifluoromethane
Concen: 52.102 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 85 Resp: 106167

Ion	Ratio	Lower	Upper
85	100		
87	32.7	15.7	47.0

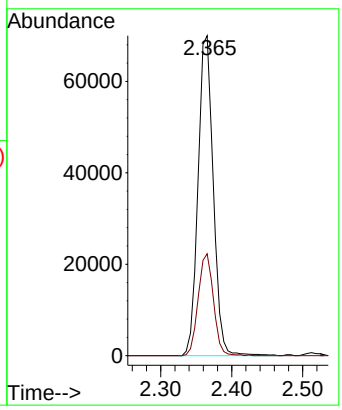




#3
Chloromethane
Concen: 50.208 ug/l
RT: 2.365 min Scan# 7
Delta R.T. 0.006 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 50 Resp: 10474

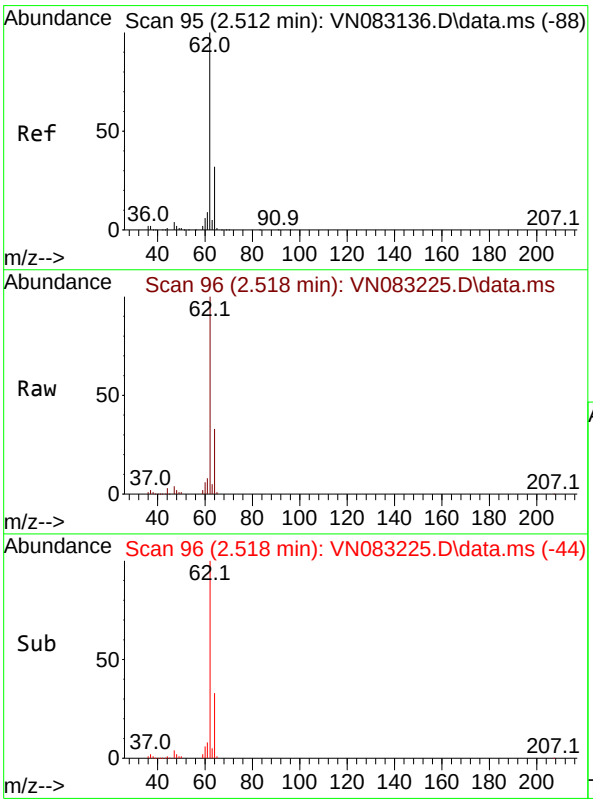
Ion	Ratio	Lower	Upper
50	100		
52	31.8	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

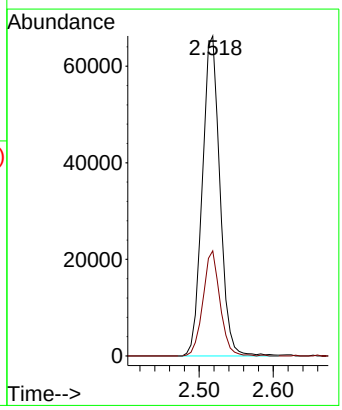
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

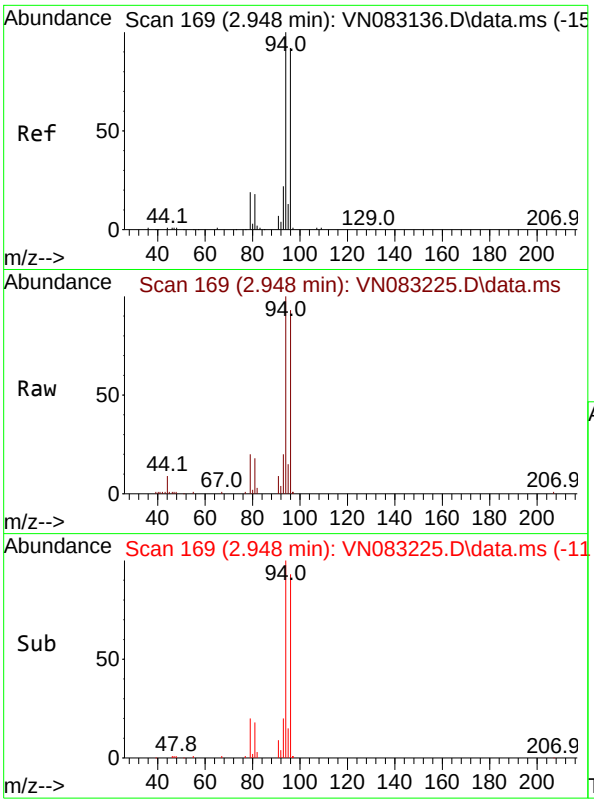


#4
Vinyl Chloride
Concen: 51.324 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 62 Resp: 109254

Ion	Ratio	Lower	Upper
62	100		
64	32.8	25.0	37.6





#5
Bromomethane
Concen: 52.379 ug/l
RT: 2.948 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

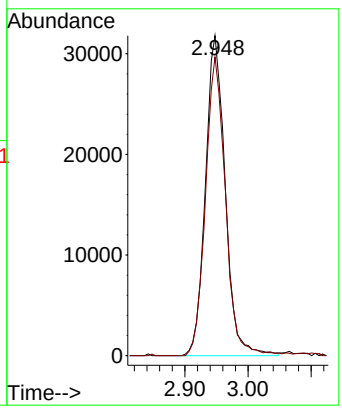
Tgt Ion: 94 Resp: 6918

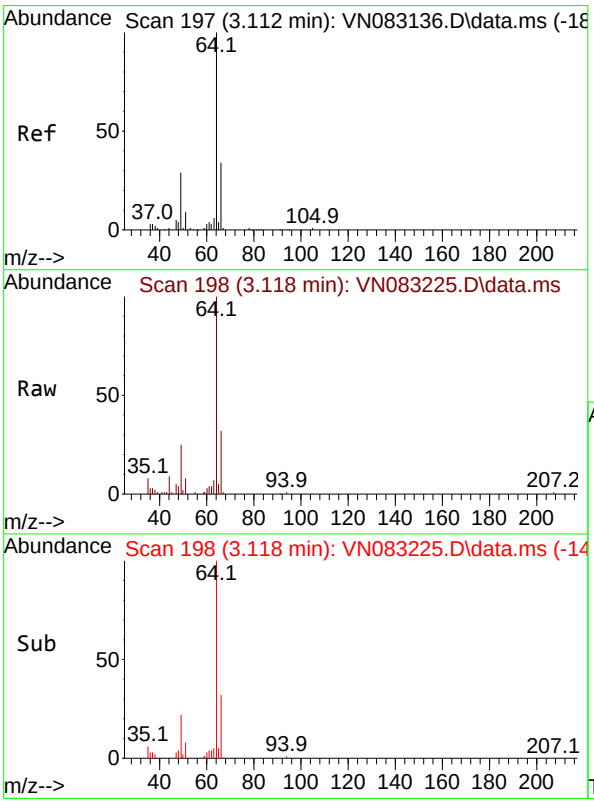
Ion	Ratio	Lower	Upper
94	100		
96	93.3	78.0	117.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

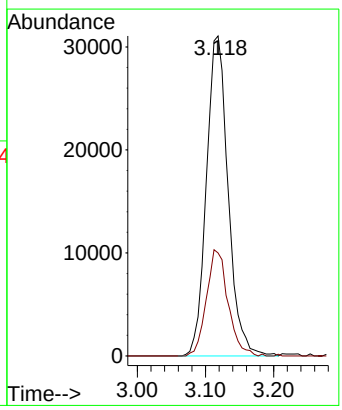


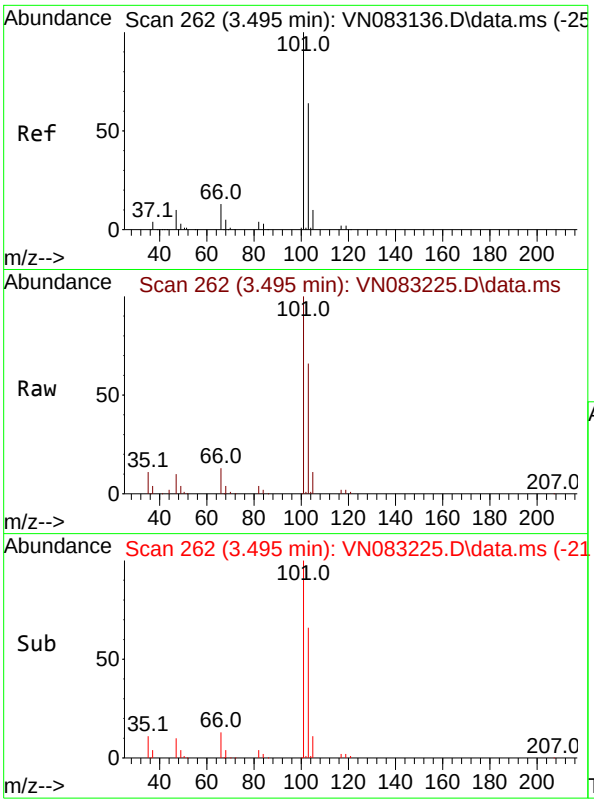


#6
Chloroethane
Concen: 51.759 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.006 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 64 Resp: 68932

Ion	Ratio	Lower	Upper
64	100		
66	32.2	26.6	40.0





#7
Trichlorofluoromethane
Concen: 53.897 ug/l
RT: 3.495 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

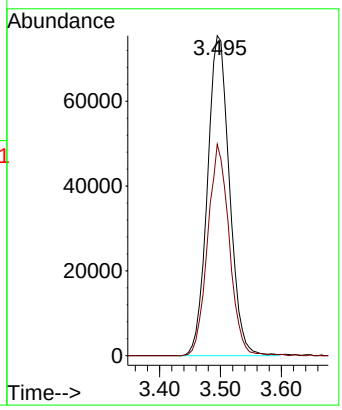
Tgt Ion:101 Resp: 18953

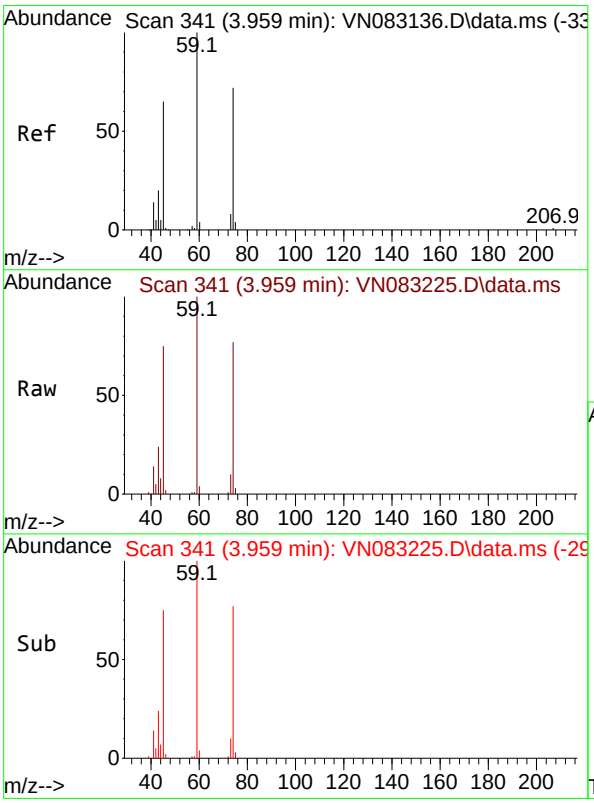
Ion	Ratio	Lower	Upper
101	100		
103	66.1	52.7	79.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

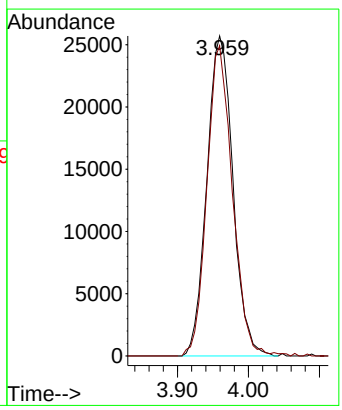


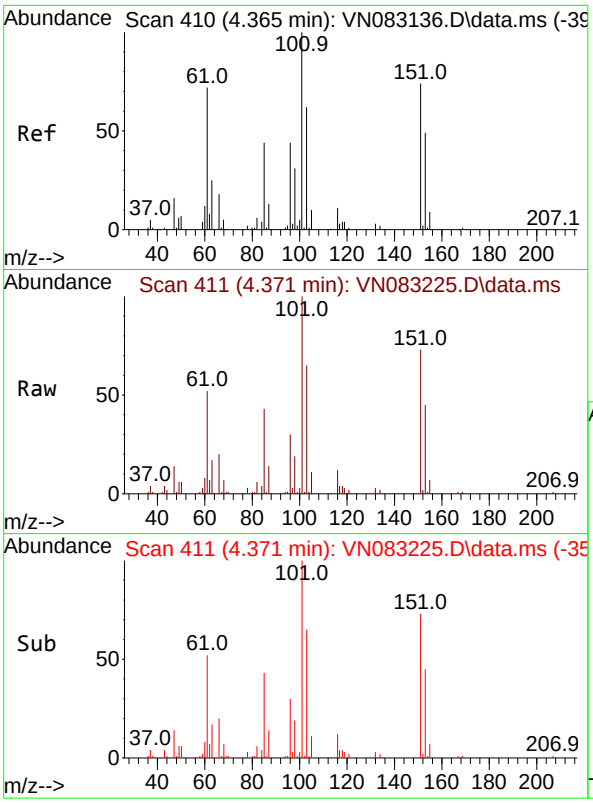


#8
Diethyl Ether
Concen: 50.087 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 74 Resp: 65541

Ion	Ratio	Lower	Upper
74	100		
45	94.8	55.5	166.3

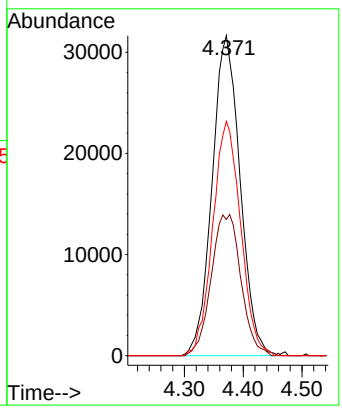




#9
1,1,2-Trichlorotrifluoroethane
Concen: 53.981 ug/l
RT: 4.371 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion:101 Resp: 10465

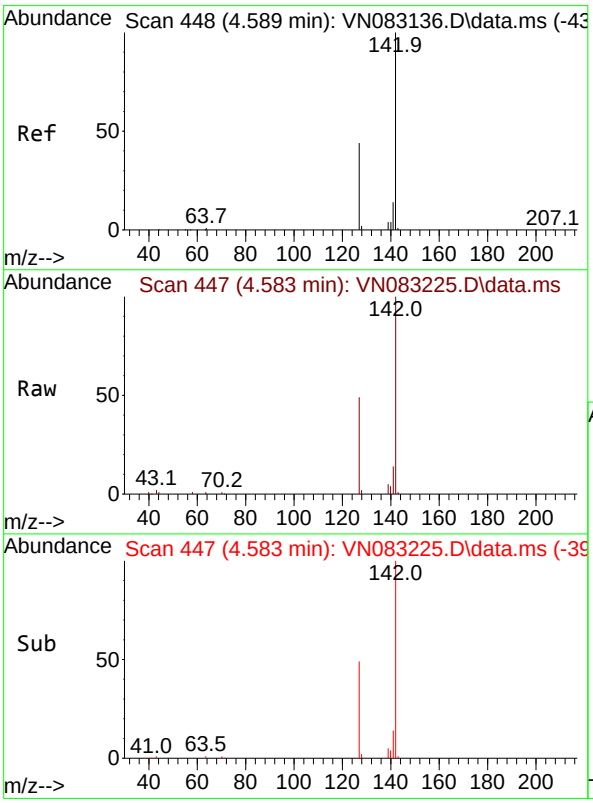
Ion	Ratio	Lower	Upper
101	100		
85	46.8	38.3	57.5
151	73.2	59.3	88.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

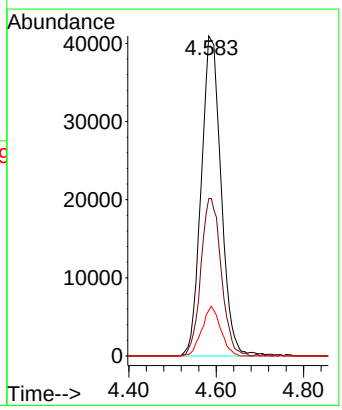
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

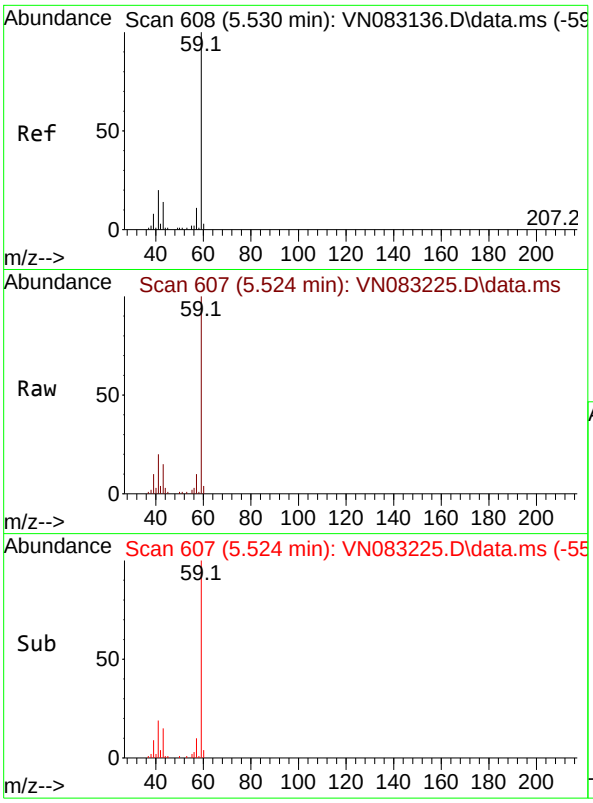


#10
Methyl Iodide
Concen: 50.825 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.006 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion:142 Resp: 129623

Ion	Ratio	Lower	Upper
142	100		
127	49.2	37.5	56.3
141	14.2	13.1	19.7

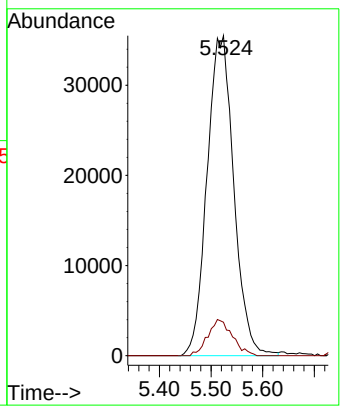




#11
Tert butyl alcohol
Concen: 240.055 ug/l
RT: 5.524 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 59 Resp: 12759

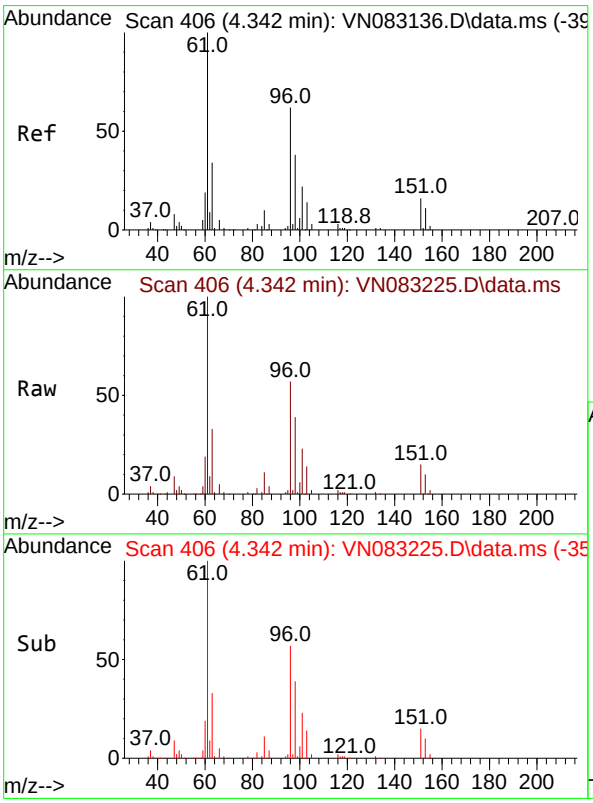
Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.9	13.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

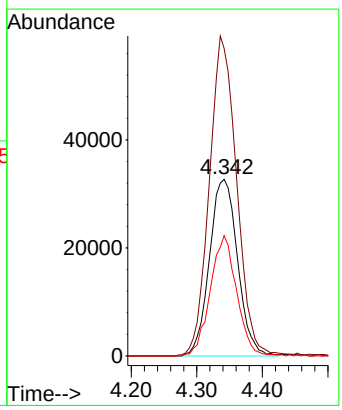
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

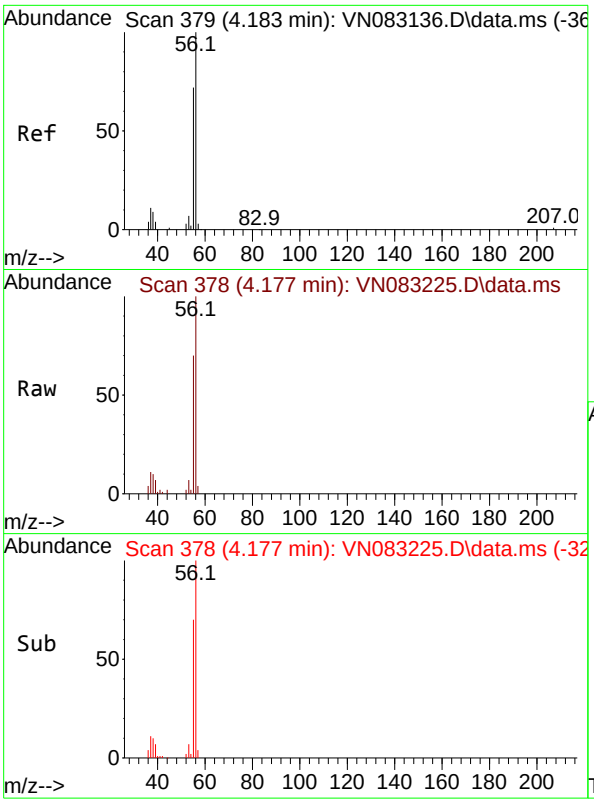


#12
1,1-Dichloroethene
Concen: 48.898 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 96 Resp: 97400

Ion	Ratio	Lower	Upper
96	100		
61	173.6	149.7	224.5
98	68.1	50.1	75.1

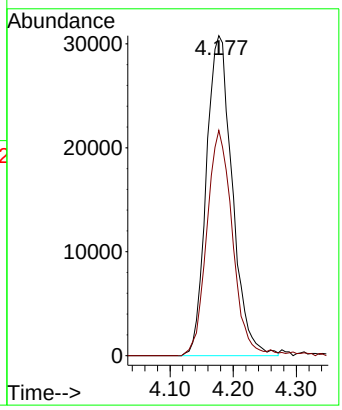




#13
Acrolein
Concen: 252.950 ug/l
RT: 4.177 min Scan# 3
Delta R.T. -0.006 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 56 Resp: 8762

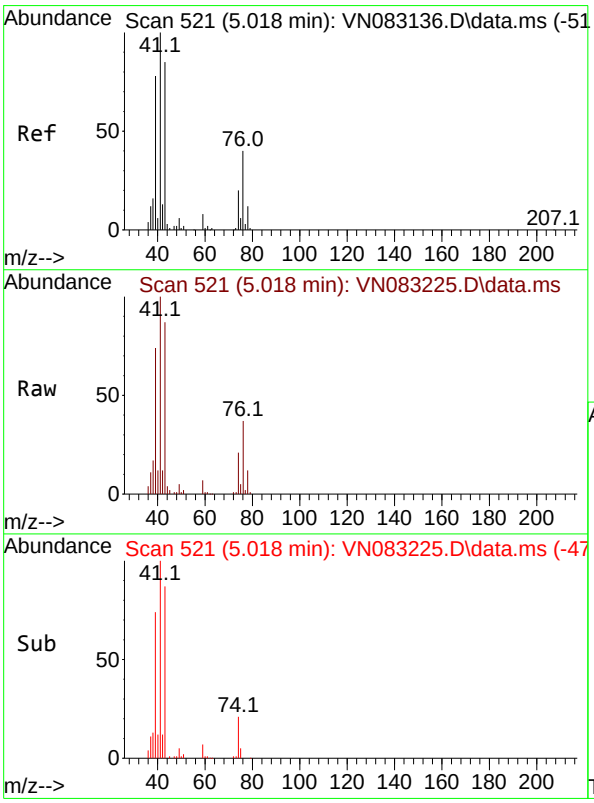
Ion	Ratio	Lower	Upper
56	100		
55	69.9	56.4	84.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

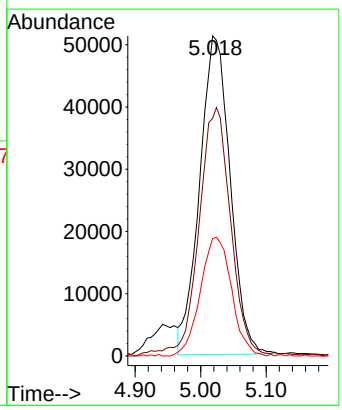
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

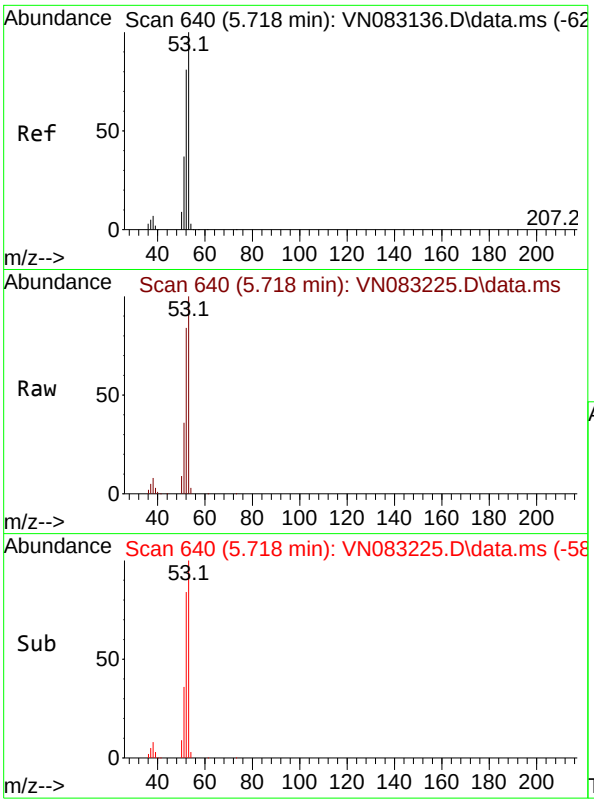


#14
Allyl chloride
Concen: 44.007 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 41 Resp: 165647

Ion	Ratio	Lower	Upper
41	100		
39	81.0	67.8	101.6
76	38.0	25.8	38.8

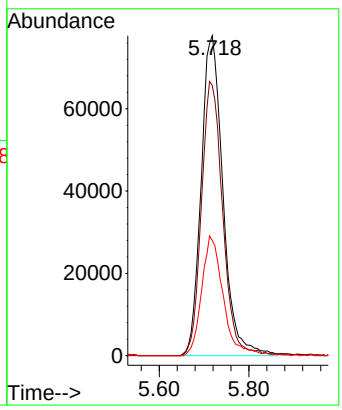




#15
Acrylonitrile
Concen: 239.993 ug/l
RT: 5.718 min Scan# 64
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 53 Resp: 26235

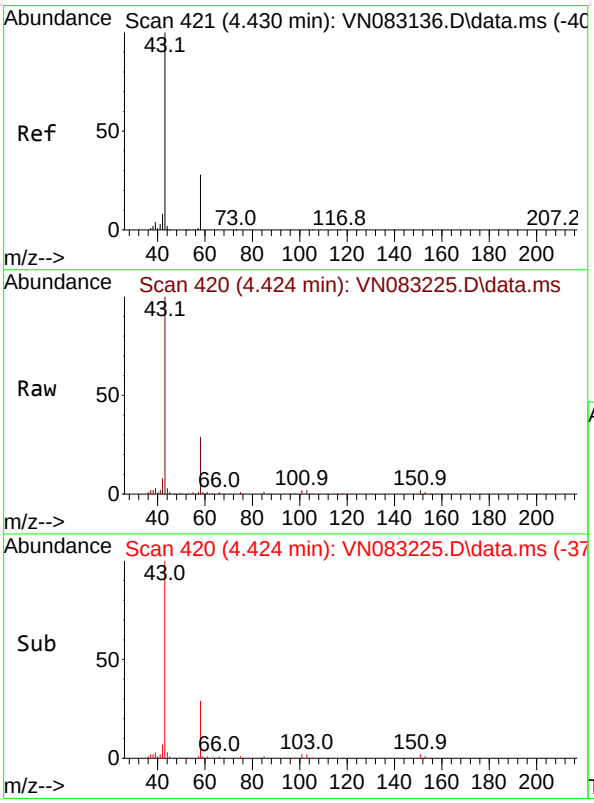
Ion	Ratio	Lower	Upper
53	100		
52	83.4	66.6	100.0
51	37.0	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

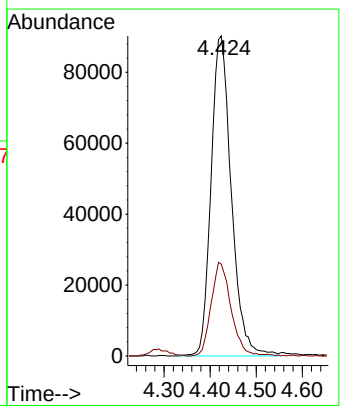
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

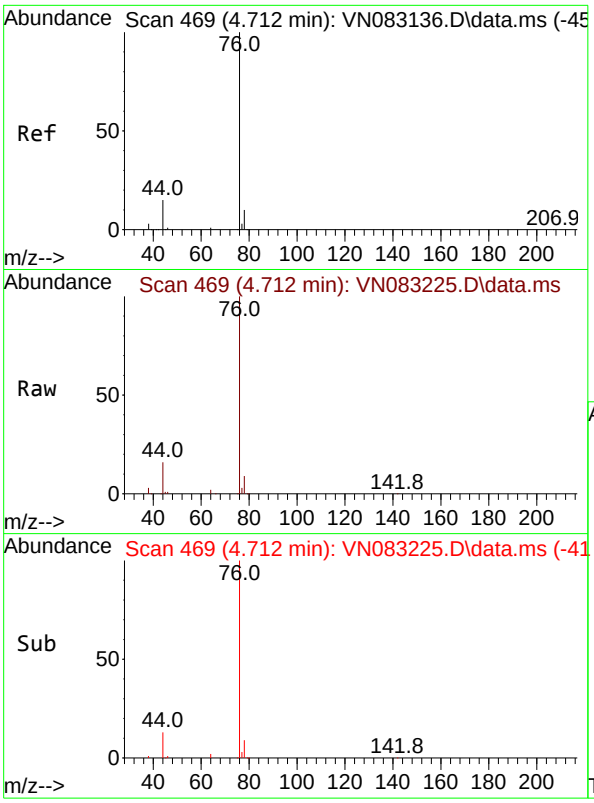


#16
Acetone
Concen: 275.268 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 43 Resp: 275489

Ion	Ratio	Lower	Upper
43	100		
58	28.4	21.8	32.6





#17
Carbon Disulfide
Concen: 45.969 ug/l
RT: 4.712 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

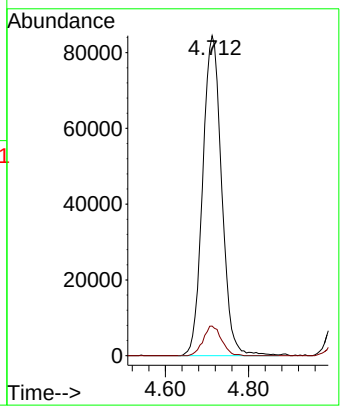
Tgt Ion: 76 Resp: 26791

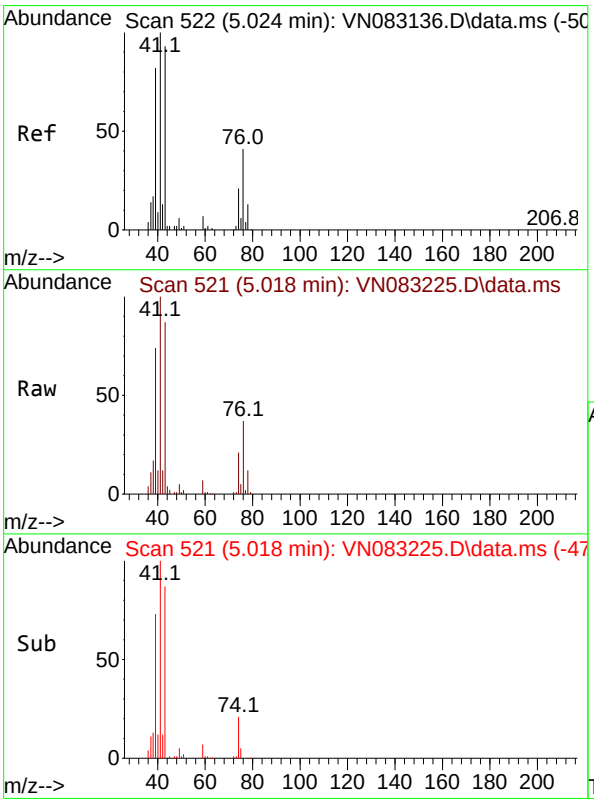
Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.2	10.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

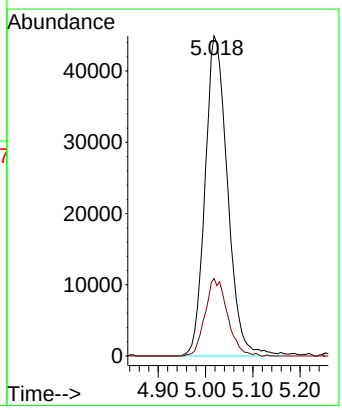


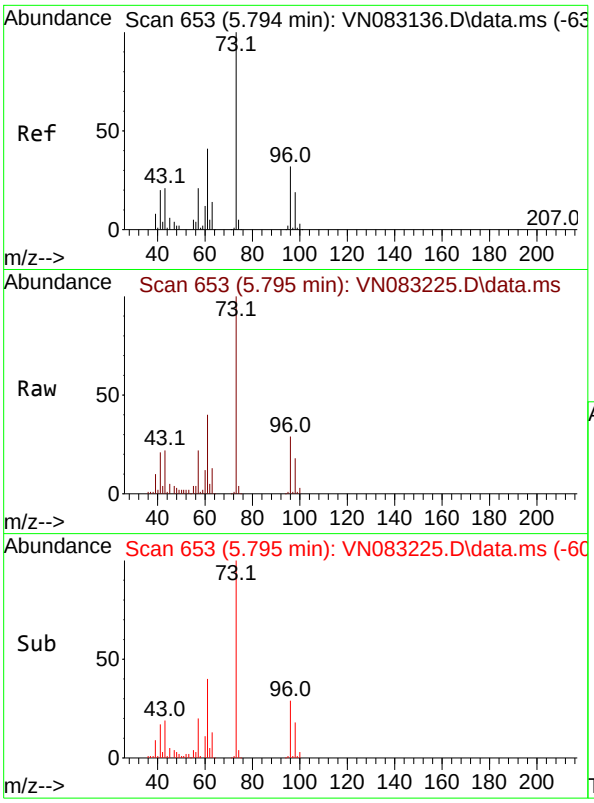


#18
Methyl Acetate
Concen: 49.583 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.006 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 43 Resp: 147849

Ion	Ratio	Lower	Upper
43	100		
74	24.2	16.3	24.5

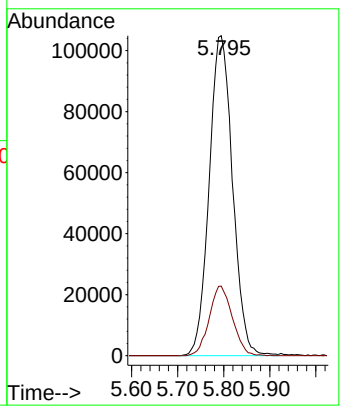




#19
Methyl tert-butyl Ether
Concen: 51.465 ug/l
RT: 5.795 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 73 Resp: 37001

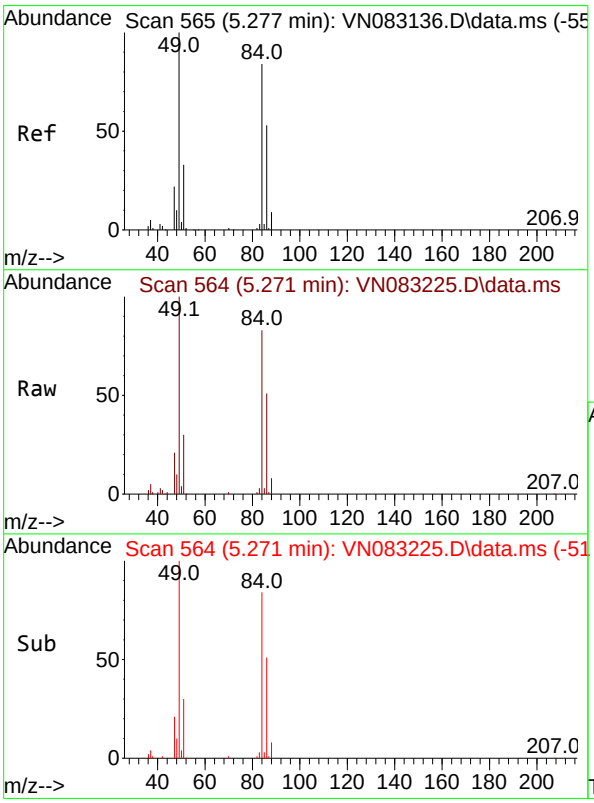
Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.9	26.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

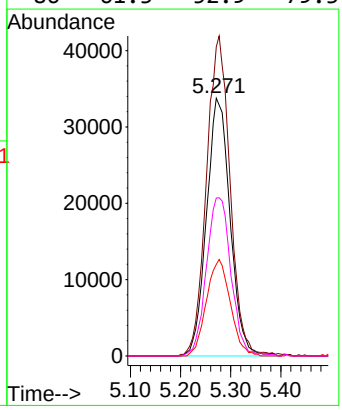
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

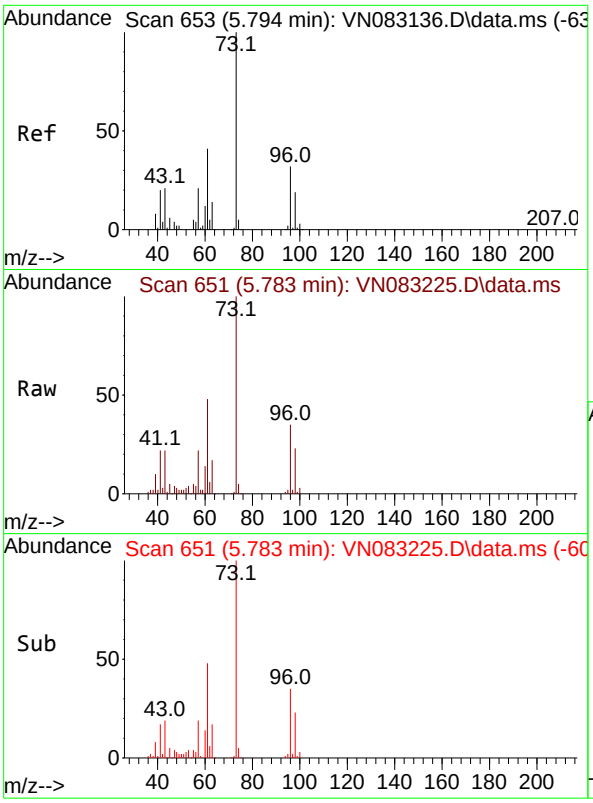


#20
Methylene Chloride
Concen: 47.976 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.006 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 84 Resp: 110503

Ion	Ratio	Lower	Upper
84	100		
49	119.9	119.6	179.4
51	35.5	34.8	52.2
86	61.3	52.9	79.3





#21
trans-1,2-Dichloroethene
Concen: 49.699 ug/l
RT: 5.783 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

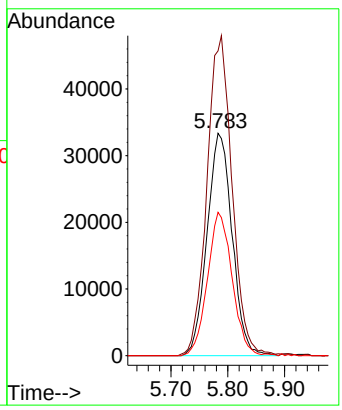
Tgt Ion: 96 Resp: 10231

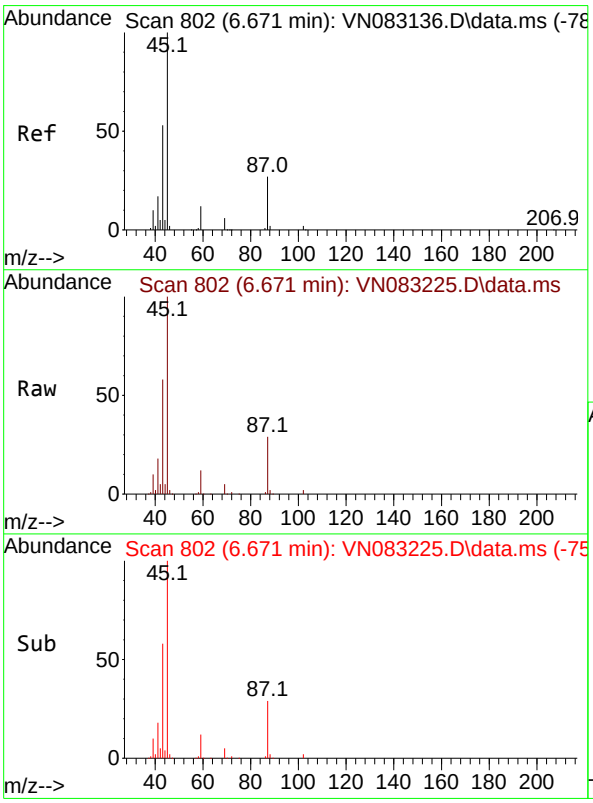
Ion	Ratio	Lower	Upper
96	100		
61	137.1	123.4	185.2
98	64.5	49.3	73.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

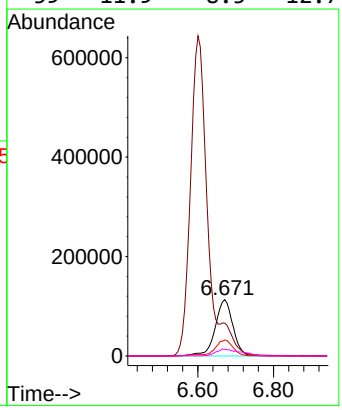


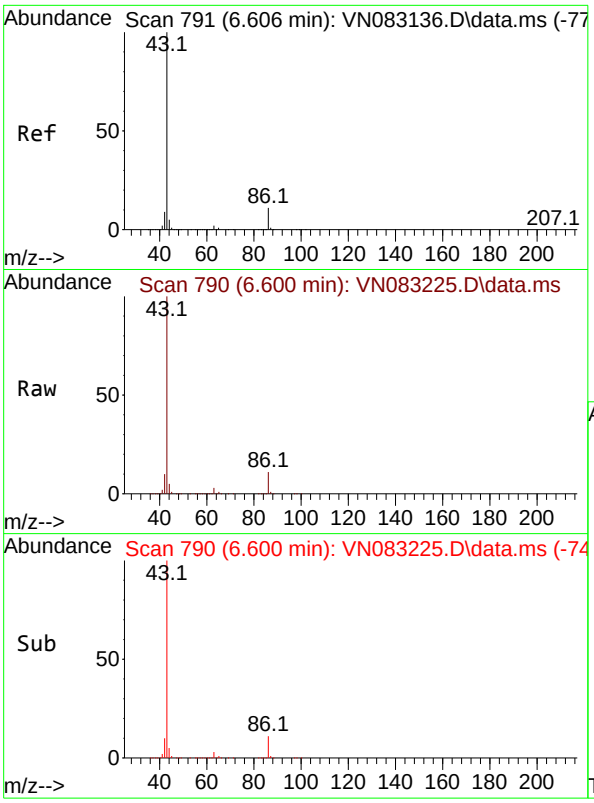


#22
Diisopropyl ether
Concen: 52.134 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 45 Resp: 368873

Ion	Ratio	Lower	Upper
45	100		
43	57.4	44.0	66.0
87	28.4	19.7	29.5
59	11.9	8.5	12.7

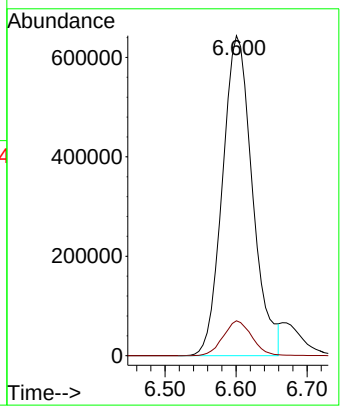




#23
Vinyl Acetate
Concen: 260.362 ug/l
RT: 6.600 min Scan# 7
Delta R.T. -0.006 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 43 Resp: 188822

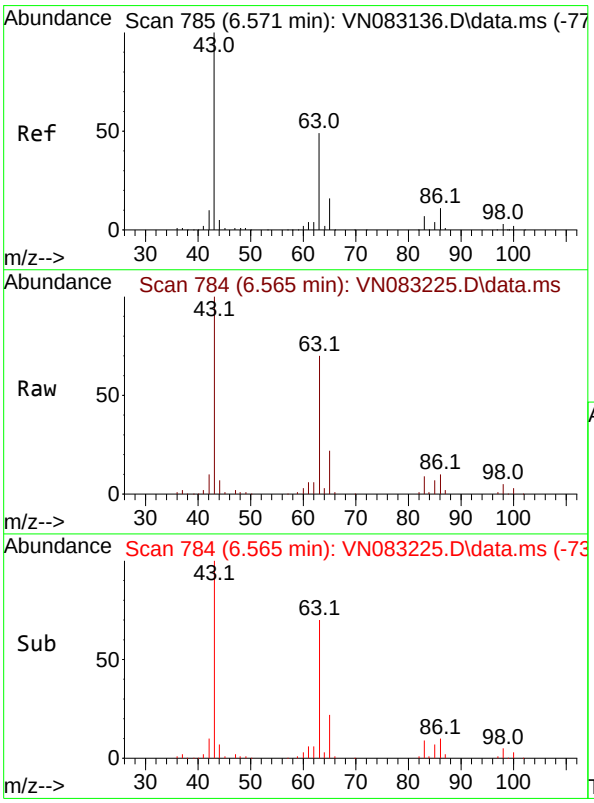
Ion	Ratio	Lower	Upper
43	100		
86	10.9	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

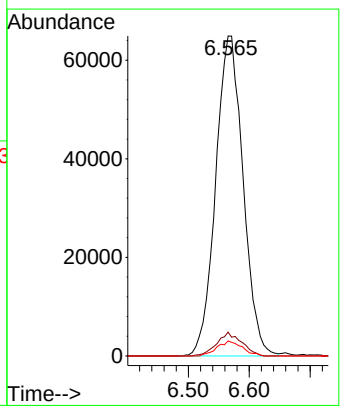
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

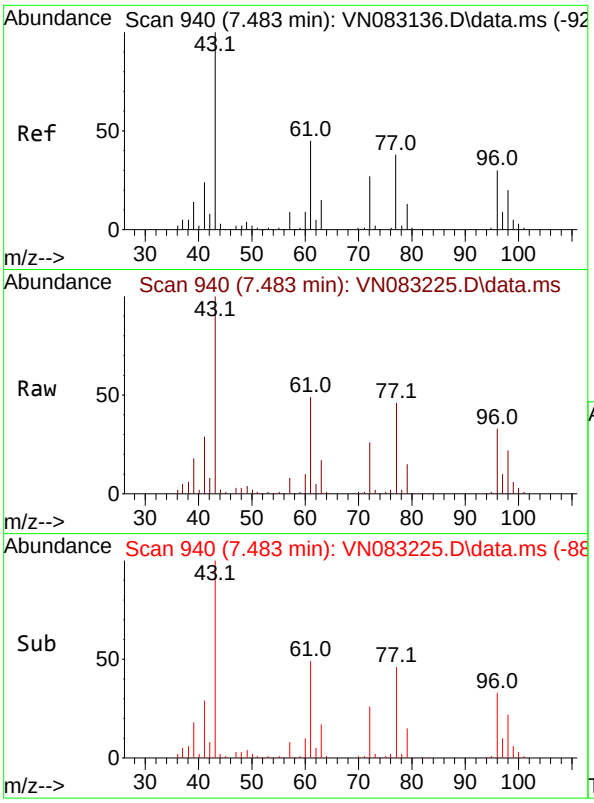


#24
1,1-Dichloroethane
Concen: 52.633 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.006 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 63 Resp: 202988

Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.3	9.9
100	4.7	2.0	6.0





#25
2-Butanone
Concen: 240.537 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

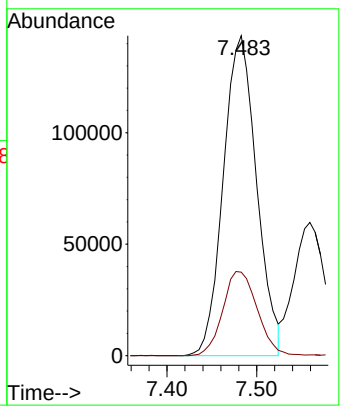
Tgt Ion: 43 Resp: 36963

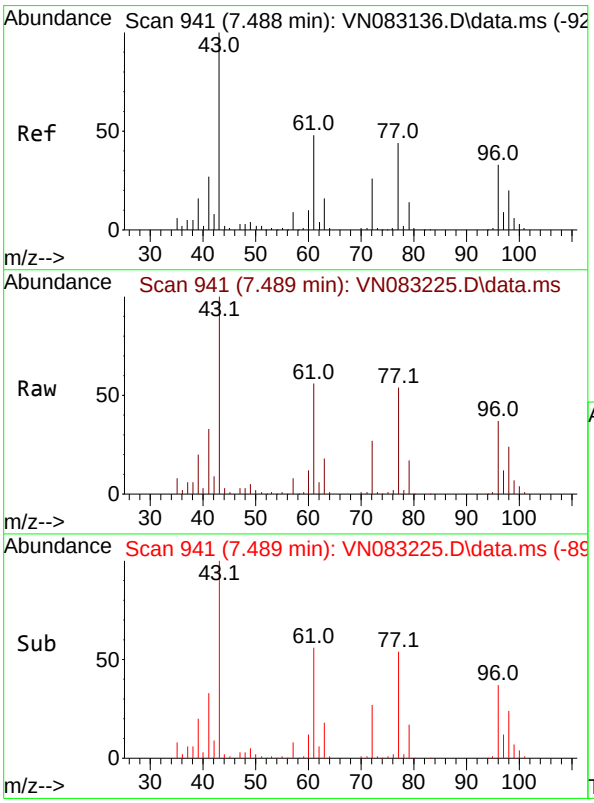
Ion	Ratio	Lower	Upper
43	100		
72	26.1	18.2	27.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

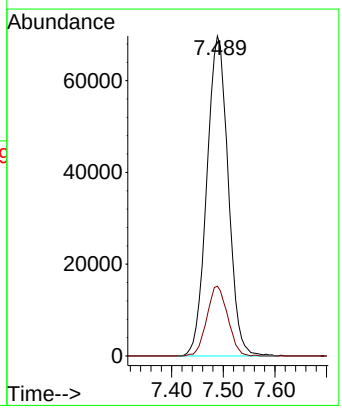


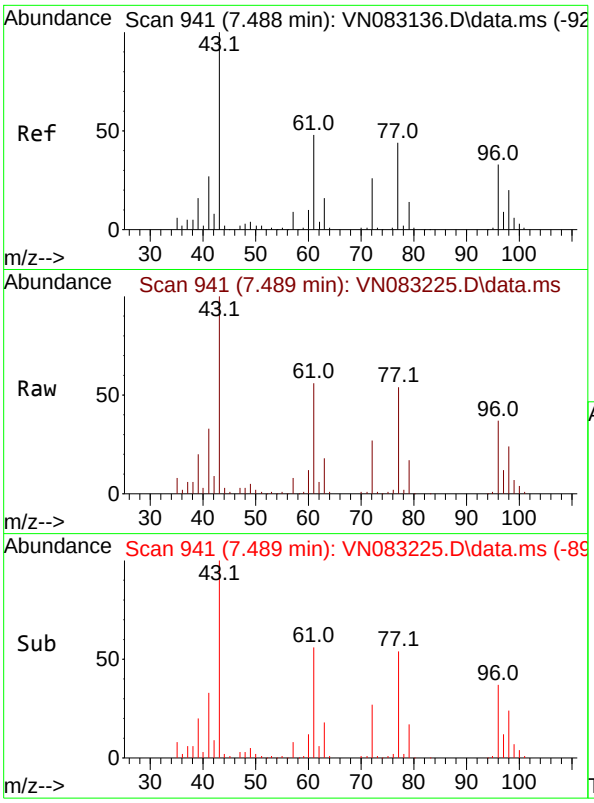


#26
2,2-Dichloropropane
Concen: 55.911 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 77 Resp: 200252

Ion	Ratio	Lower	Upper
77	100		
97	21.3	10.3	30.9





#27
cis-1,2-Dichloroethene
Concen: 51.108 ug/l
RT: 7.489 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

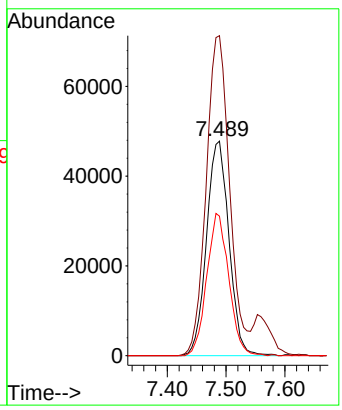
Tgt Ion: 96 Resp: 12696

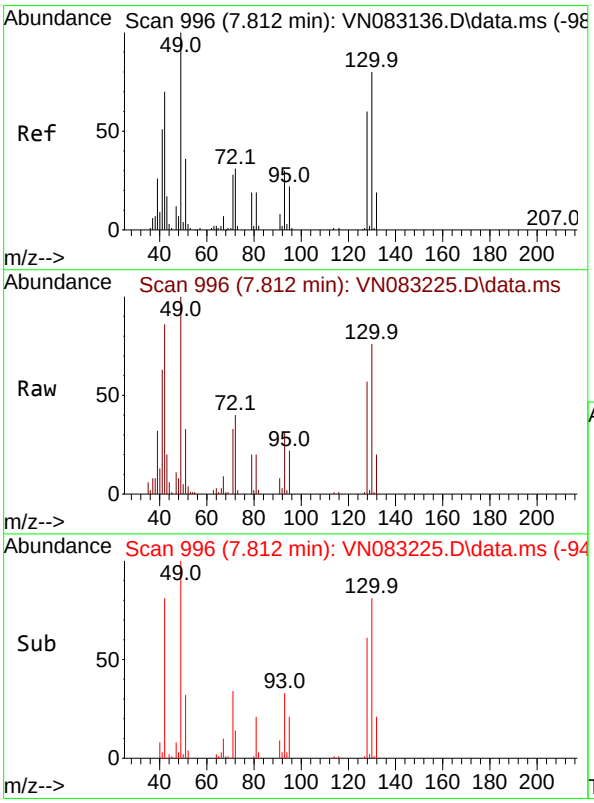
Ion	Ratio	Lower	Upper
96	100		
61	155.7	0.0	329.6
98	65.0	0.0	128.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

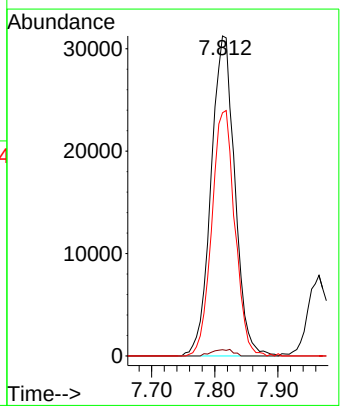


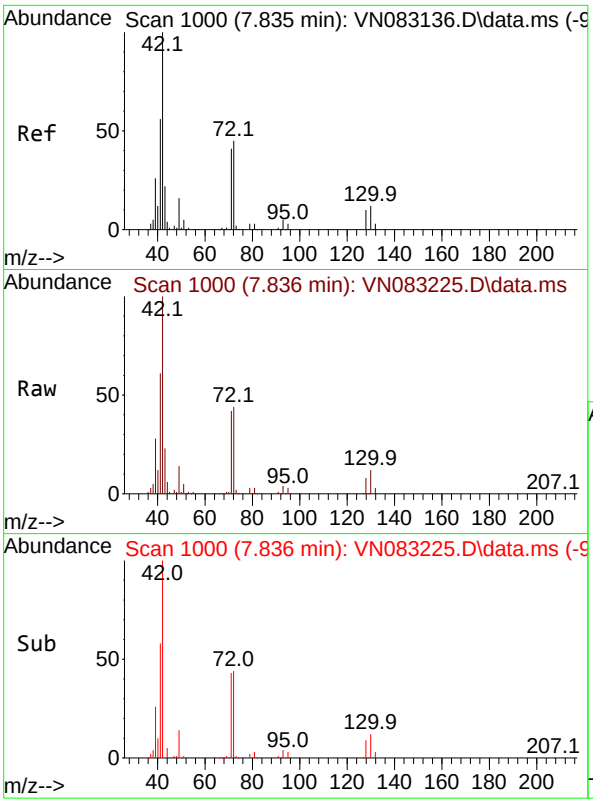


#28
Bromochloromethane
Concen: 51.908 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 49 Resp: 81813

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.8
130	74.2	50.5	75.7

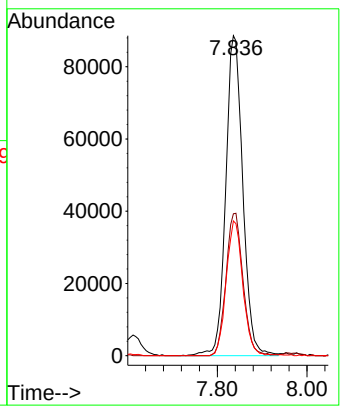




#29
Tetrahydrofuran
Concen: 236.354 ug/l
RT: 7.836 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 42 Resp: 23478

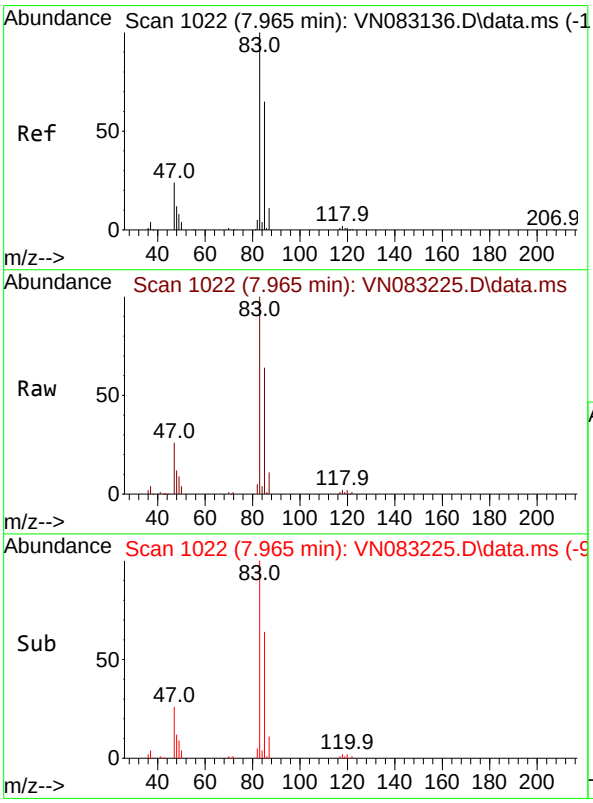
Ion	Ratio	Lower	Upper
42	100		
72	44.4	30.0	45.0
71	40.9	28.3	42.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

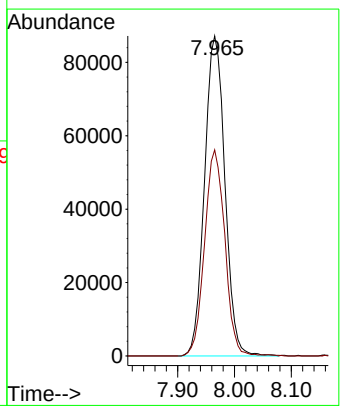
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

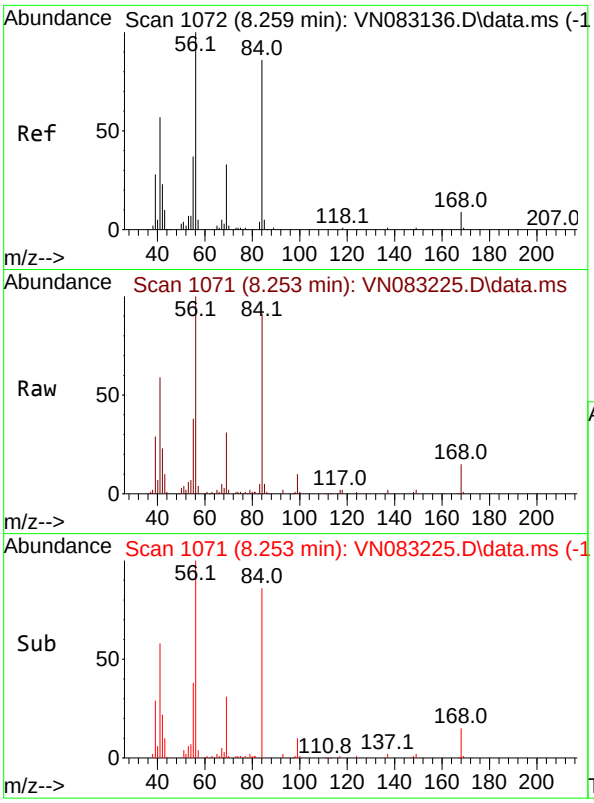


#30
Chloroform
Concen: 54.100 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 83 Resp: 216764

Ion	Ratio	Lower	Upper
83	100		
85	64.4	50.9	76.3

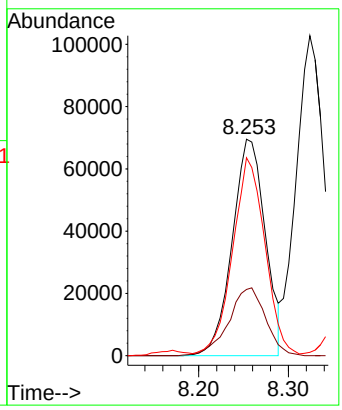




#31
Cyclohexane
Concen: 46.981 ug/l
RT: 8.253 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 56 Resp: 17807

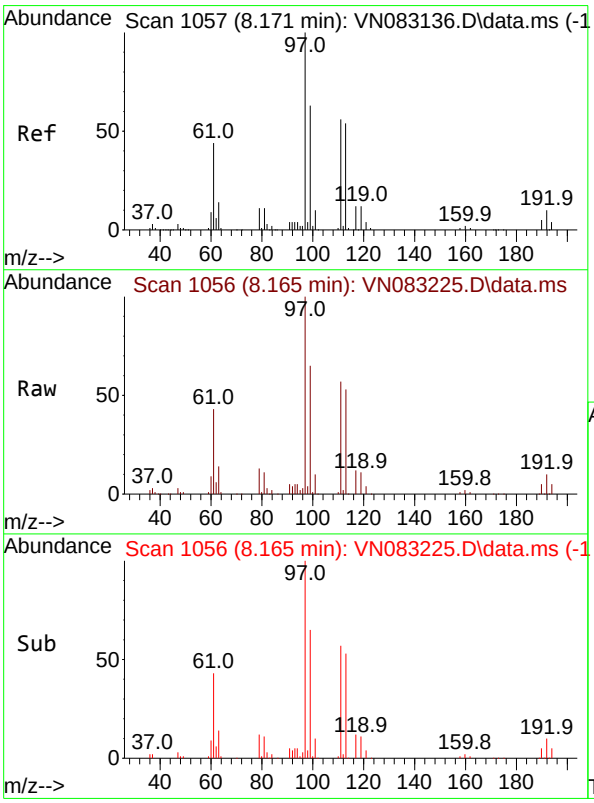
Ion	Ratio	Lower	Upper
56	100		
69	30.6	24.5	36.7
84	89.5	66.0	99.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

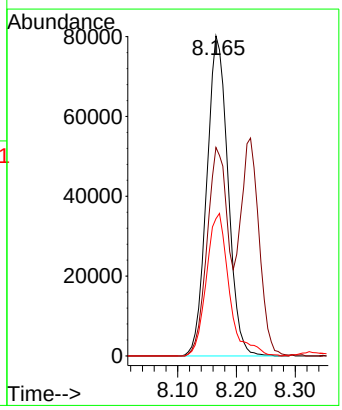
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

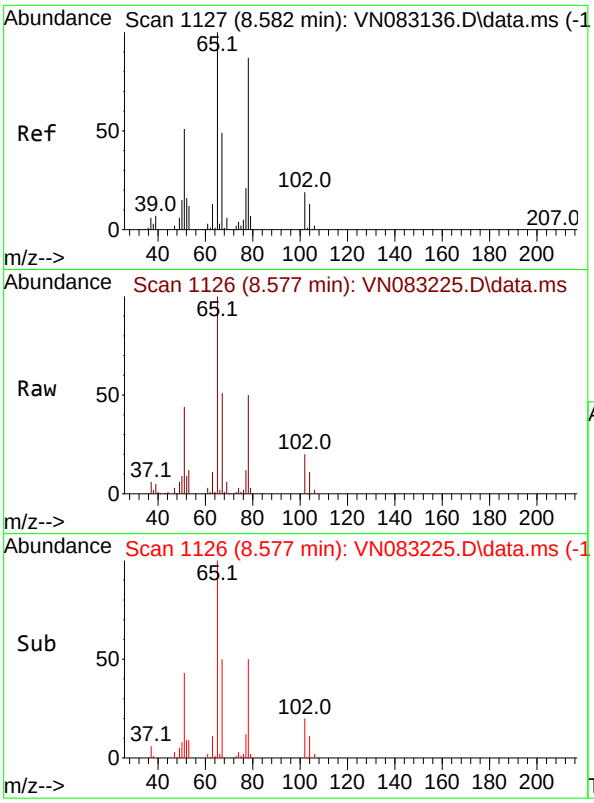


#32
1,1,1-Trichloroethane
Concen: 53.003 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 97 Resp: 201020

Ion	Ratio	Lower	Upper
97	100		
99	64.3	52.0	78.0
61	48.0	42.1	63.1

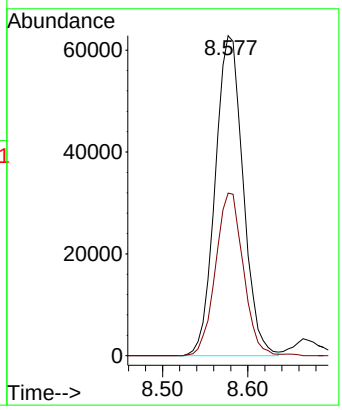




#33
1,2-Dichloroethane-d4
Concen: 55.922 ug/l
RT: 8.577 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

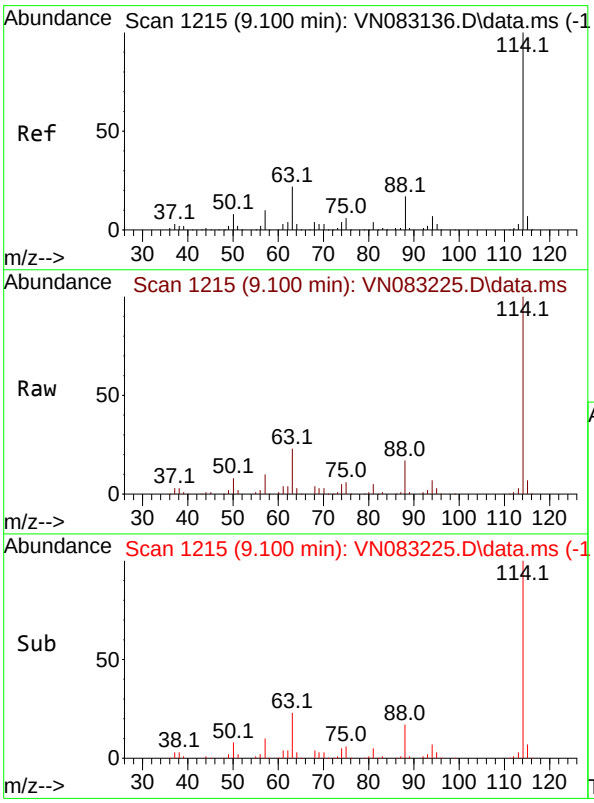
Tgt Ion: 65 Resp: 14302

Ion	Ratio	Lower	Upper
65	100		
67	50.8	0.0	104.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

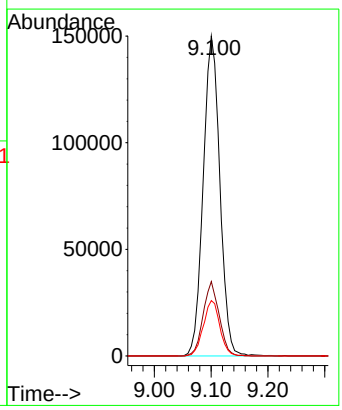
Manual Integrations APPROVED
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

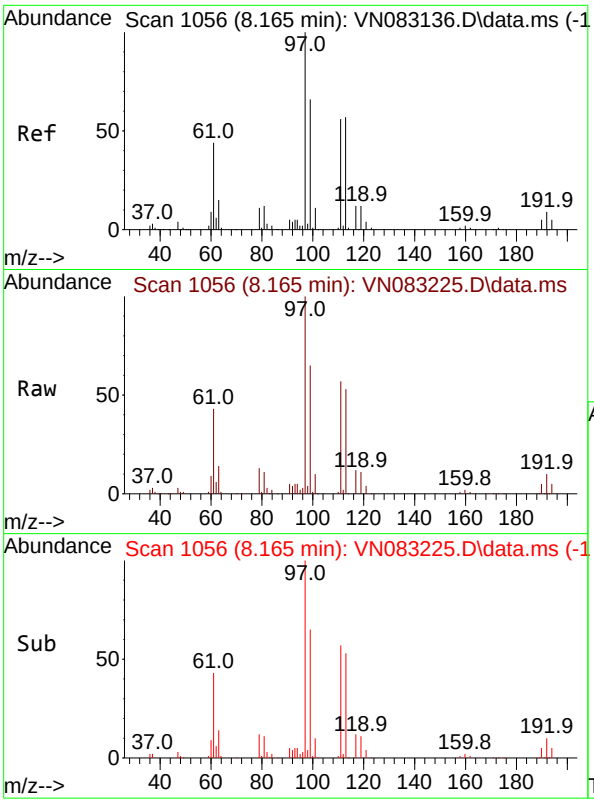


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion:114 Resp: 304896

Ion	Ratio	Lower	Upper
114	100		
63	23.3	0.0	44.6
88	17.3	0.0	31.4

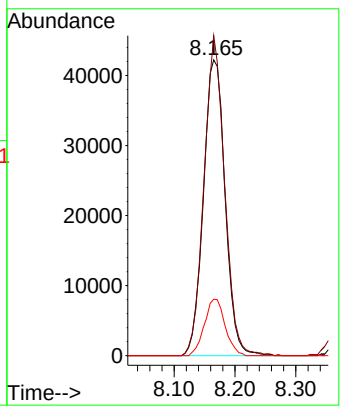




#35
Dibromofluoromethane
Concen: 54.912 ug/l
RT: 8.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion:113 Resp: 10450

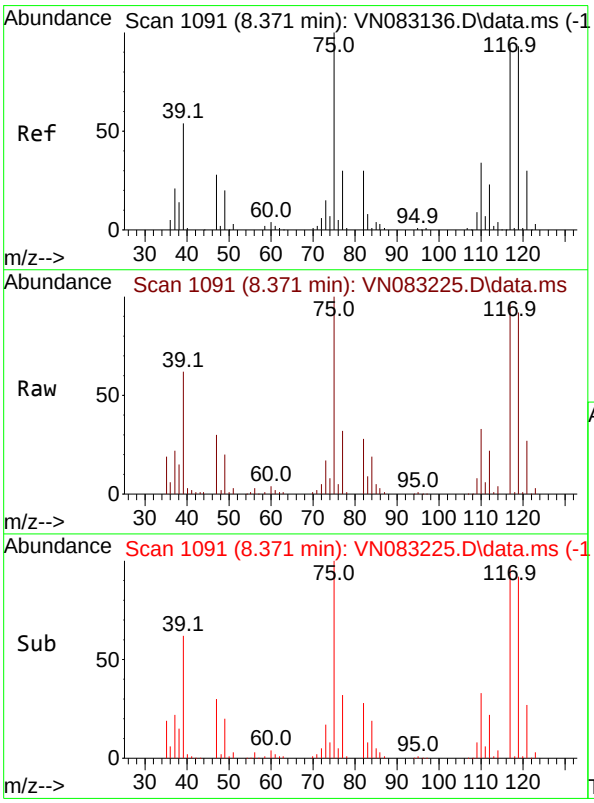
Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.4	123.6
192	18.3	14.9	22.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

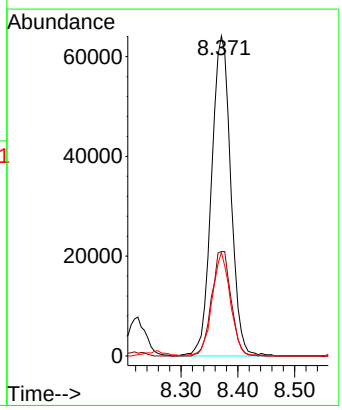
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

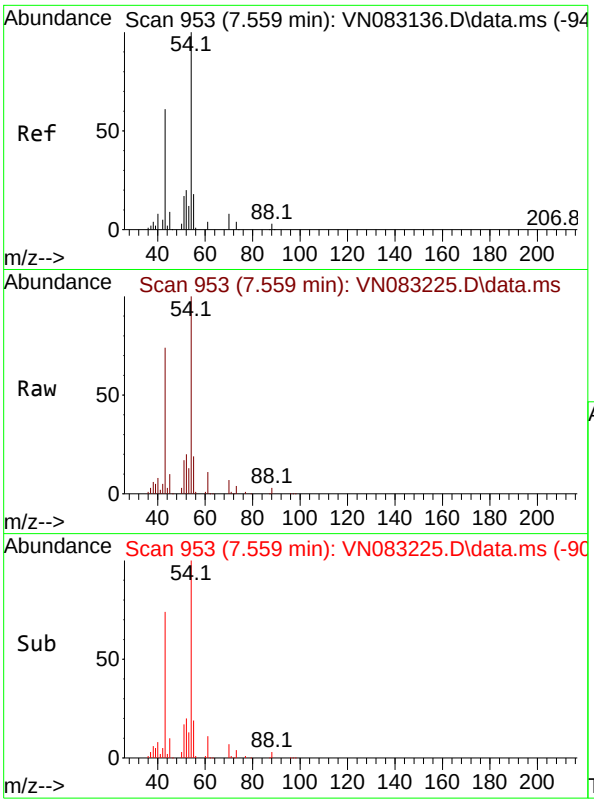


#36
1,1-Dichloropropene
Concen: 52.510 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 75 Resp: 151169

Ion	Ratio	Lower	Upper
75	100		
110	32.9	16.3	48.9
77	30.6	24.6	37.0

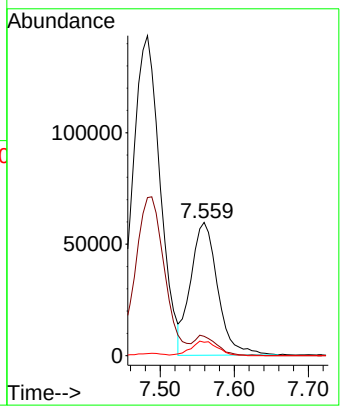




#37
Ethyl Acetate
Concen: 46.932 ug/l
RT: 7.559 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 43 Resp: 15127

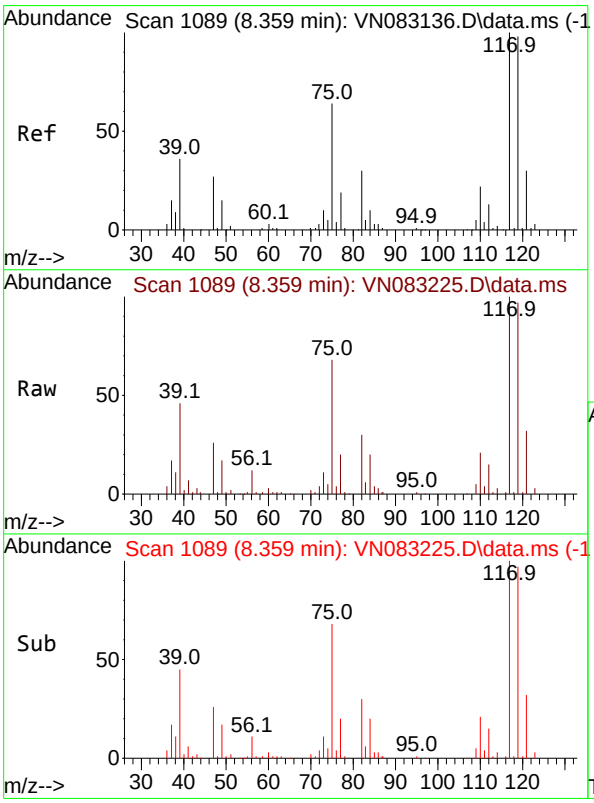
Ion	Ratio	Lower	Upper
43	100		
61	11.6	9.3	13.9
70	10.8	7.0	10.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

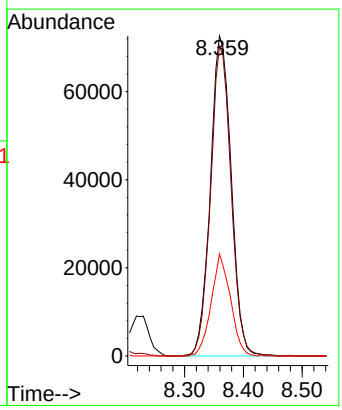
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

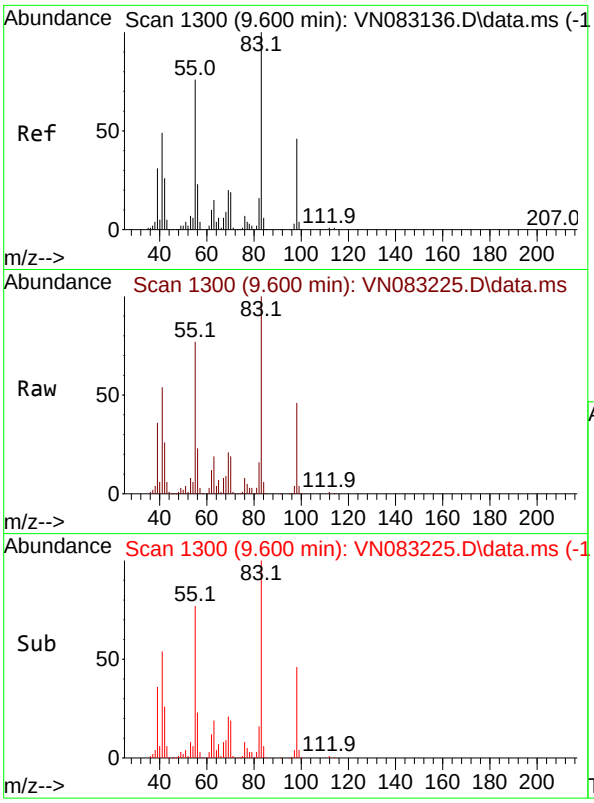


#38
Carbon Tetrachloride
Concen: 55.128 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion:117 Resp: 178753

Ion	Ratio	Lower	Upper
117	100		
119	96.8	74.9	112.3
121	31.9	24.3	36.5

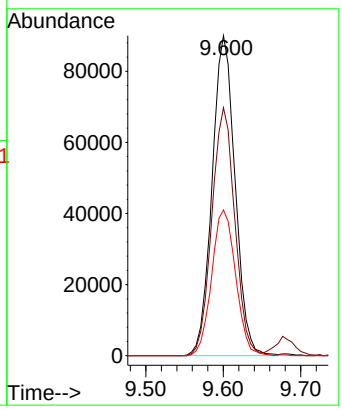




#39
Methylcyclohexane
Concen: 52.473 ug/l
RT: 9.600 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 83 Resp: 18554

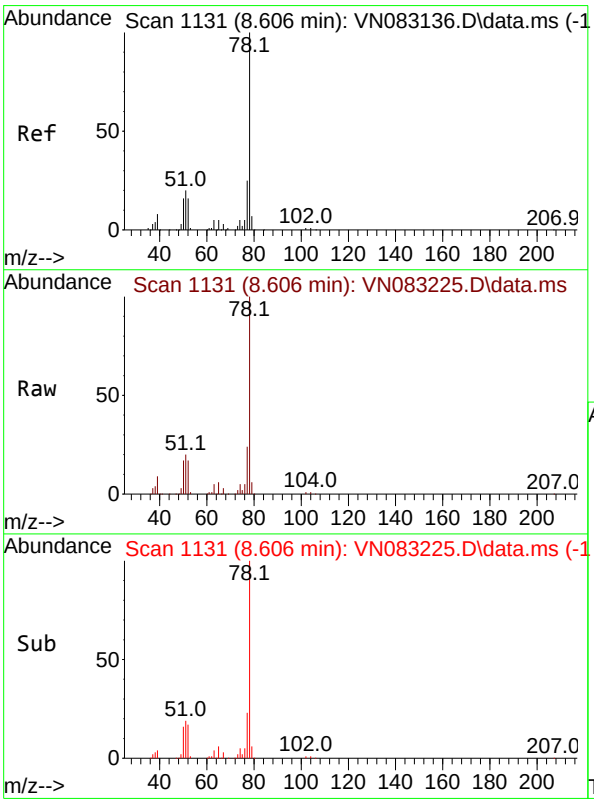
Ion	Ratio	Lower	Upper
83	100		
55	77.5	66.4	99.6
98	45.6	40.7	61.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

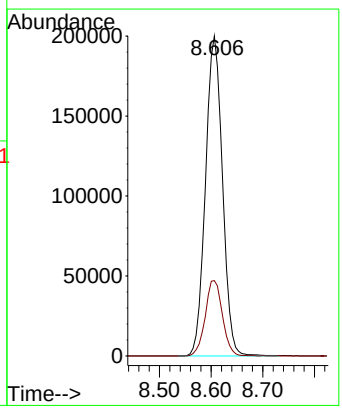
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

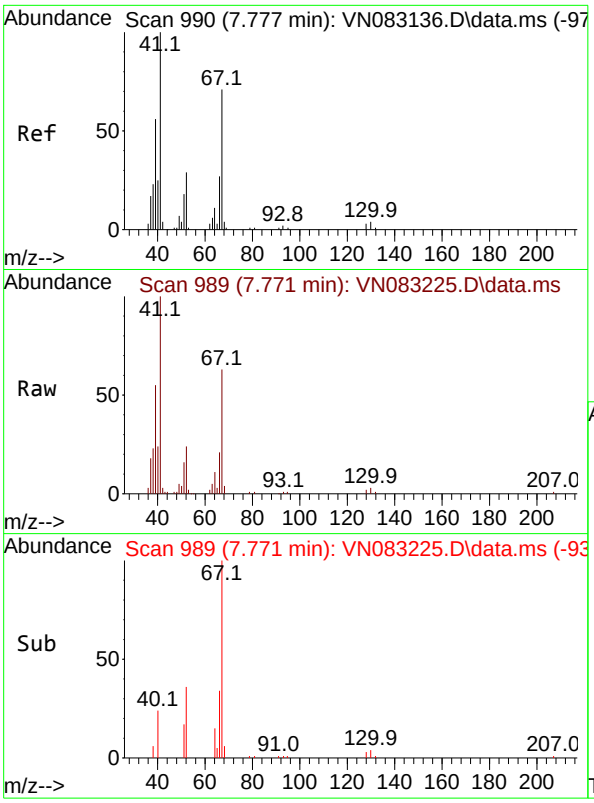


#40
Benzene
Concen: 53.193 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 78 Resp: 456196

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.4

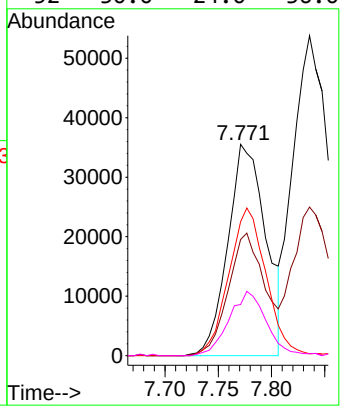




#41
Methacrylonitrile
Concen: 48.217 ug/l
RT: 7.771 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 41 Resp: 8837

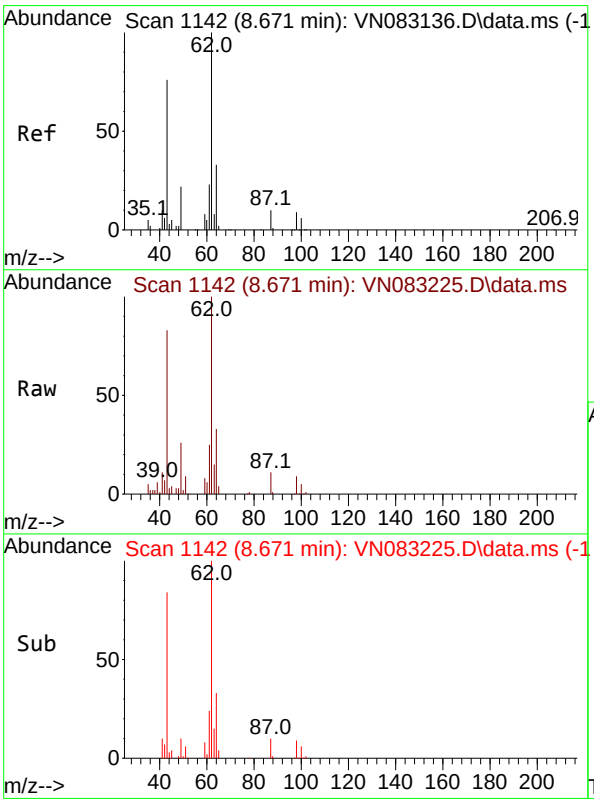
Ion	Ratio	Lower	Upper
41	100		
39	56.3	45.5	68.3
67	69.0	50.5	75.7
52	30.0	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

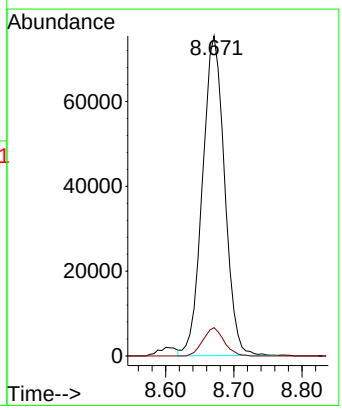
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

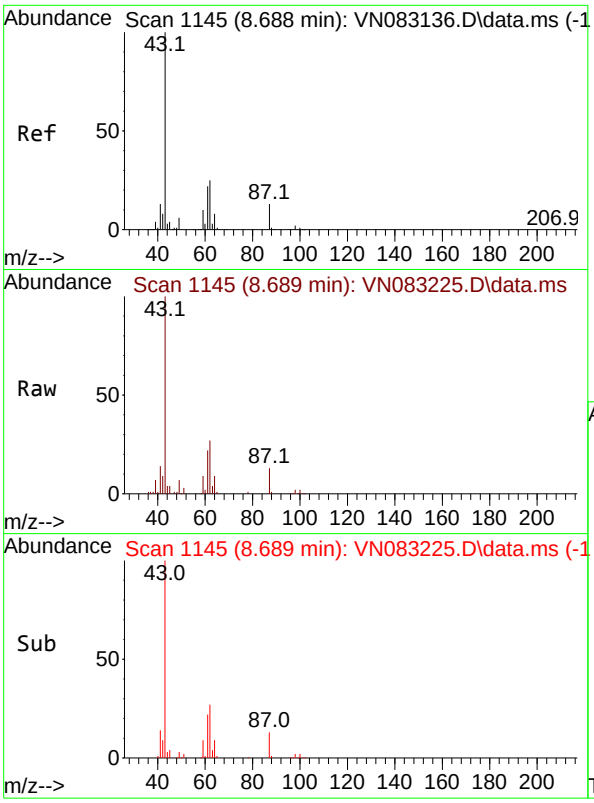


#42
1,2-Dichloroethane
Concen: 54.347 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 62 Resp: 169788

Ion	Ratio	Lower	Upper
62	100		
98	8.4	0.0	15.8

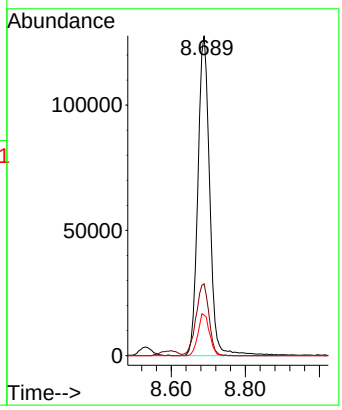




#43
Isopropyl Acetate
Concen: 50.529 ug/l
RT: 8.689 min Scan# 1
Delta R.T. 0.001 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 43 Resp: 28227

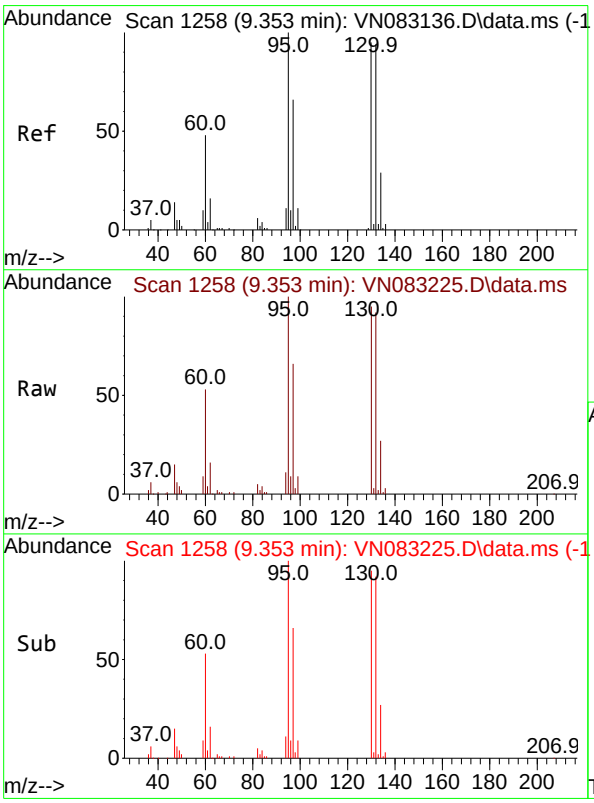
Ion	Ratio	Lower	Upper
43	100		
61	24.6	17.8	26.6
87	12.7	8.2	12.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

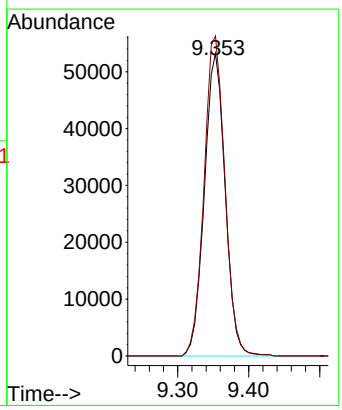
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

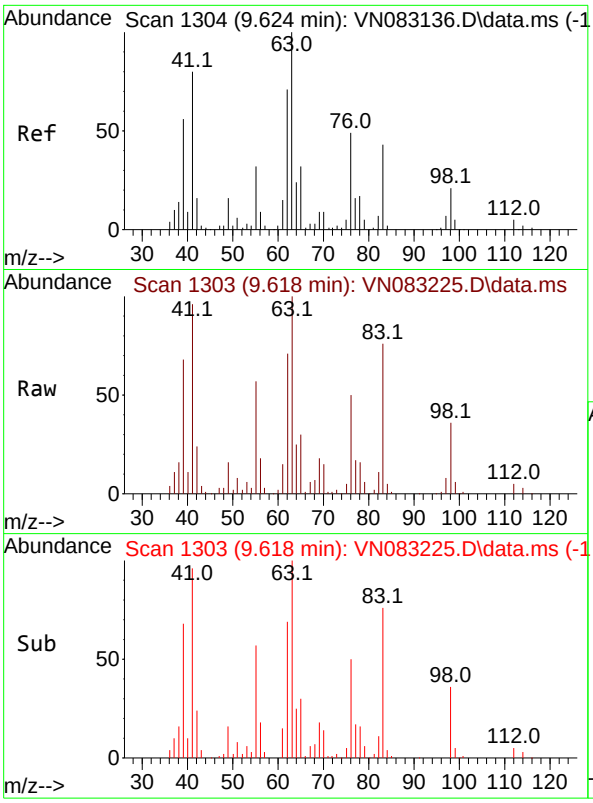


#44
Trichloroethene
Concen: 53.104 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion:130 Resp: 108403

Ion	Ratio	Lower	Upper
130	100		
95	105.8	0.0	197.8

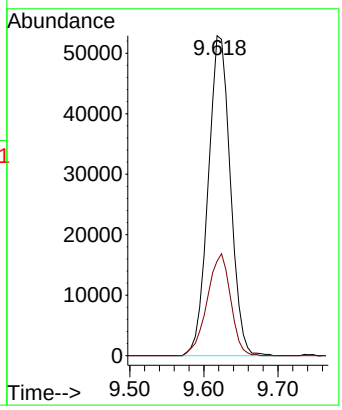




#45
1,2-Dichloropropane
Concen: 53.957 ug/l
RT: 9.618 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 63 Resp: 10984

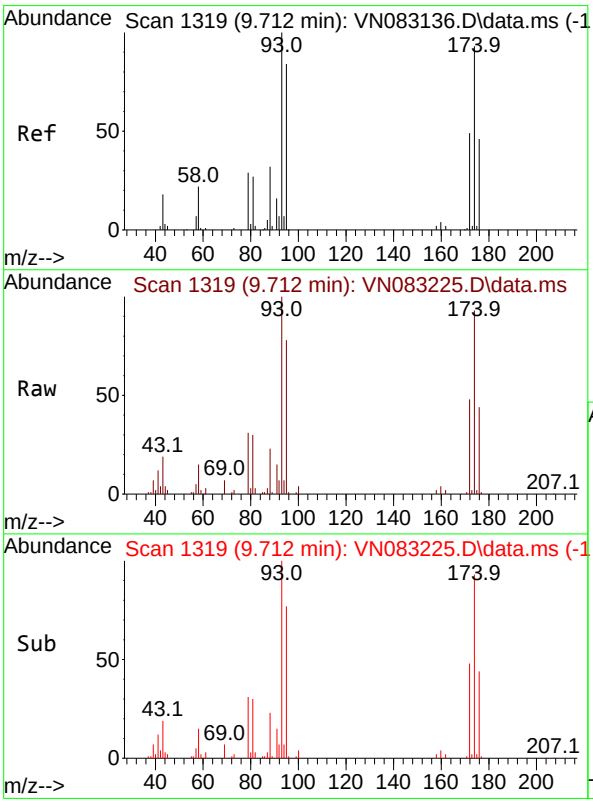
Ion	Ratio	Lower	Upper
63	100		
65	29.6	24.4	36.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

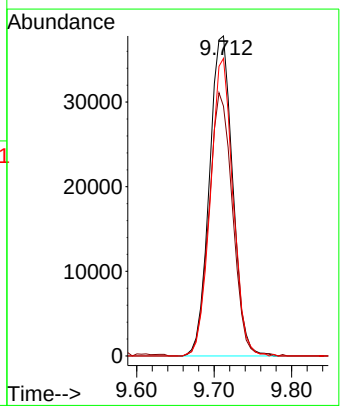
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

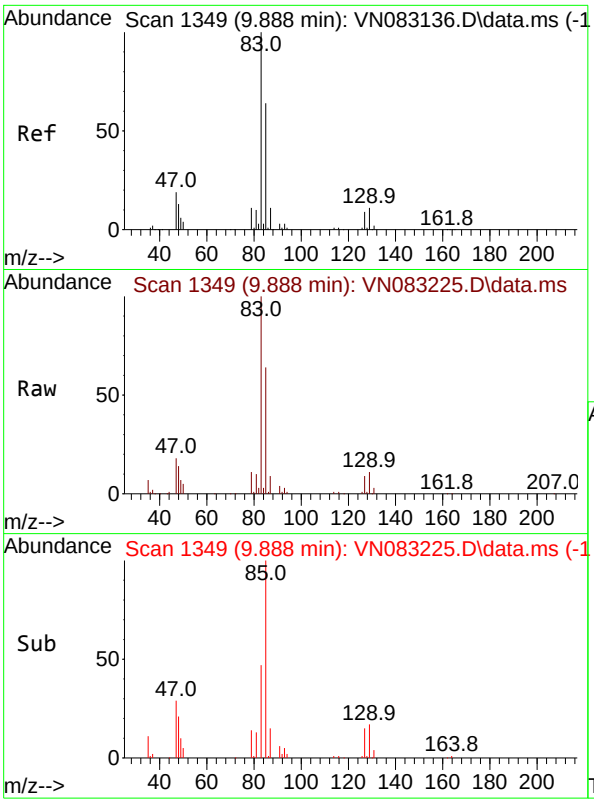


#46
Dibromomethane
Concen: 54.334 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 93 Resp: 79172

Ion	Ratio	Lower	Upper
93	100		
95	83.1	65.8	98.6
174	90.0	71.7	107.5

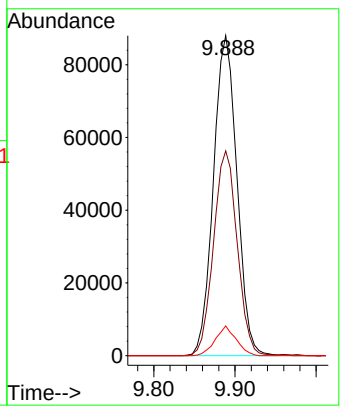




#47
Bromodichloromethane
Concen: 54.085 ug/l
RT: 9.888 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 83 Resp: 17695

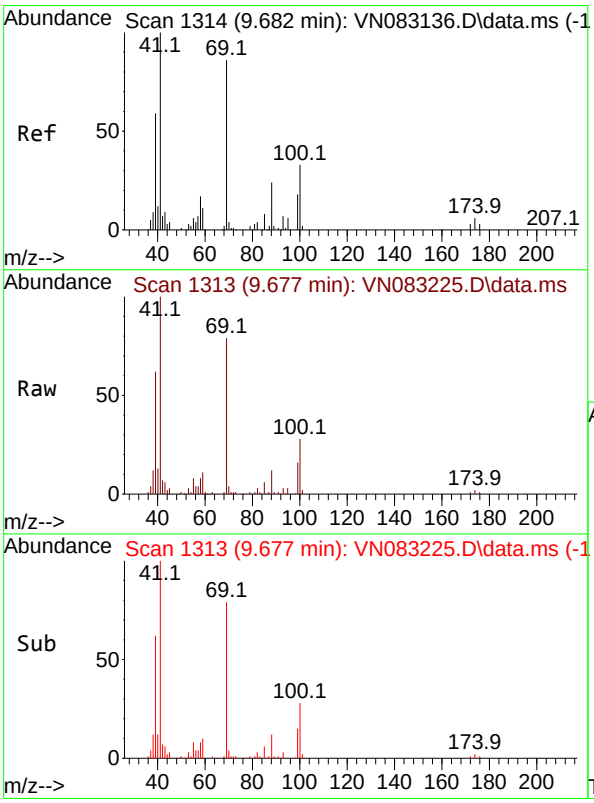
Ion	Ratio	Lower	Upper
83	100		
85	64.0	51.1	76.7
127	9.3	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

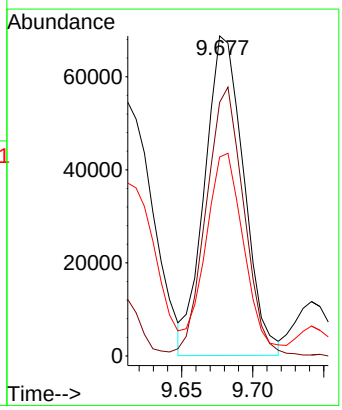
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

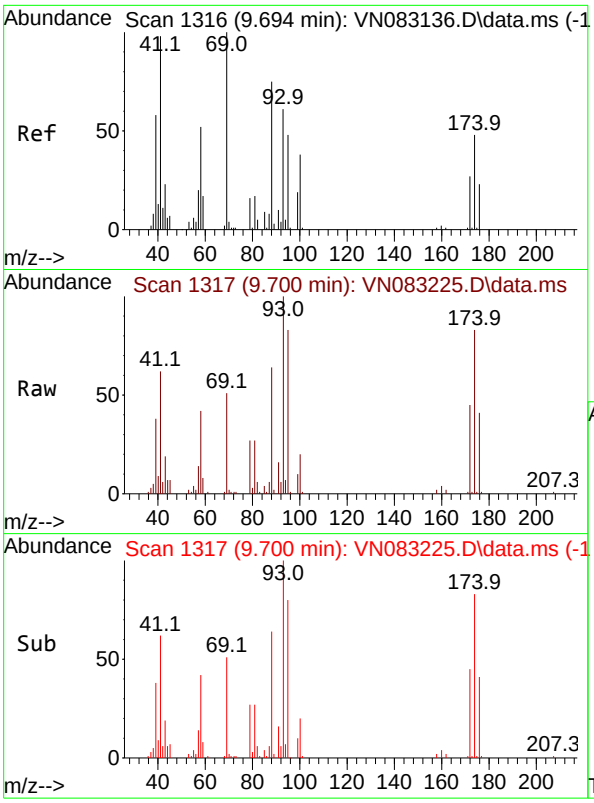


#48
Methyl methacrylate
Concen: 49.438 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.006 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 41 Resp: 131746

Ion	Ratio	Lower	Upper
41	100		
69	81.2	56.3	84.5
39	63.3	50.3	75.5

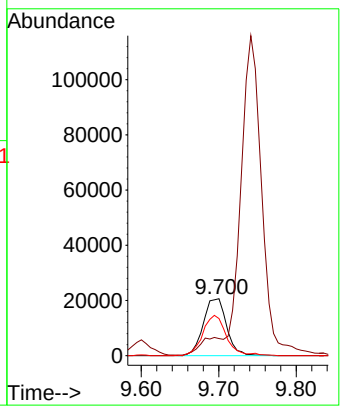




#49
1,4-Dioxane
Concen: 898.633 ug/l
RT: 9.700 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 88 Resp: 4320

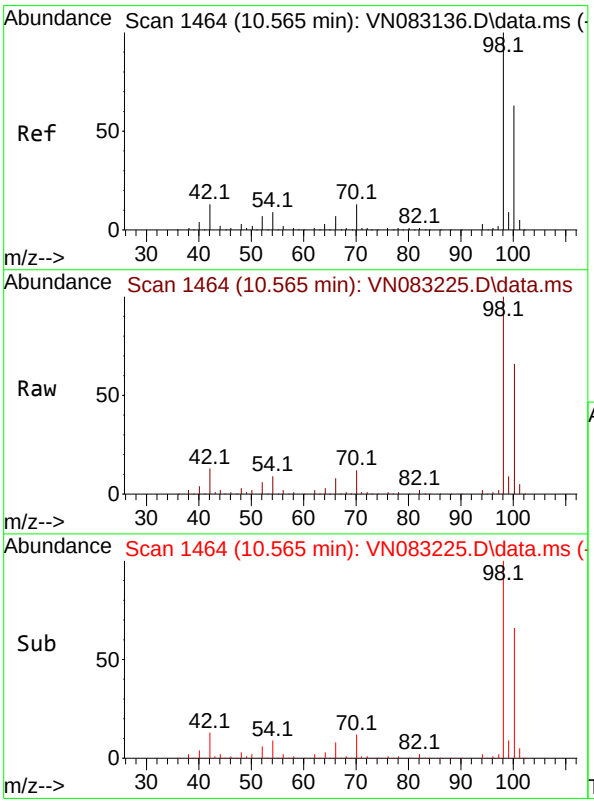
Ion	Ratio	Lower	Upper
88	100		
43	31.6	27.8	41.8
58	72.3	59.4	89.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

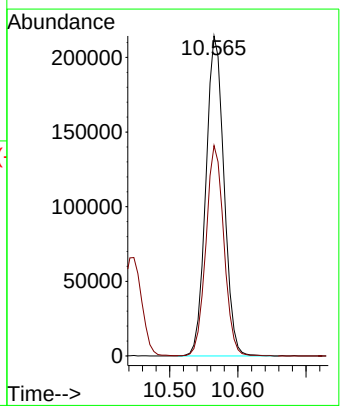
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

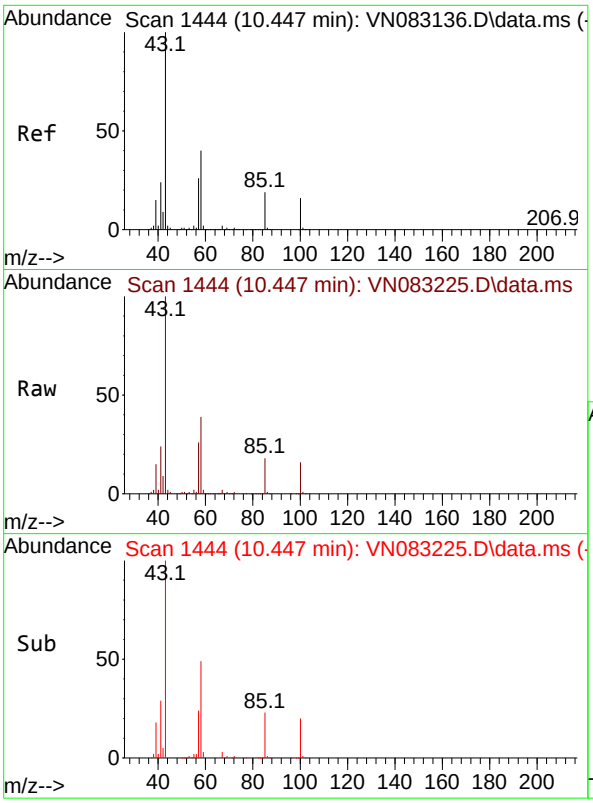


#50
Toluene-d8
Concen: 55.663 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 98 Resp: 395152

Ion	Ratio	Lower	Upper
98	100		
100	65.2	51.5	77.3

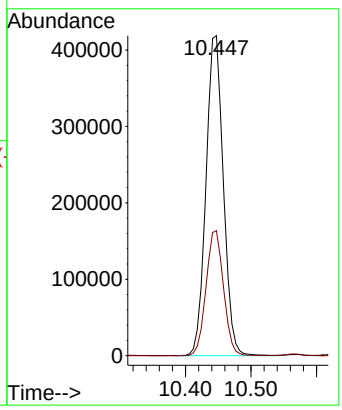




#51
4-Methyl-2-Pentanone
Concen: 253.325 ug/l
RT: 10.447 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 43 Resp: 77216

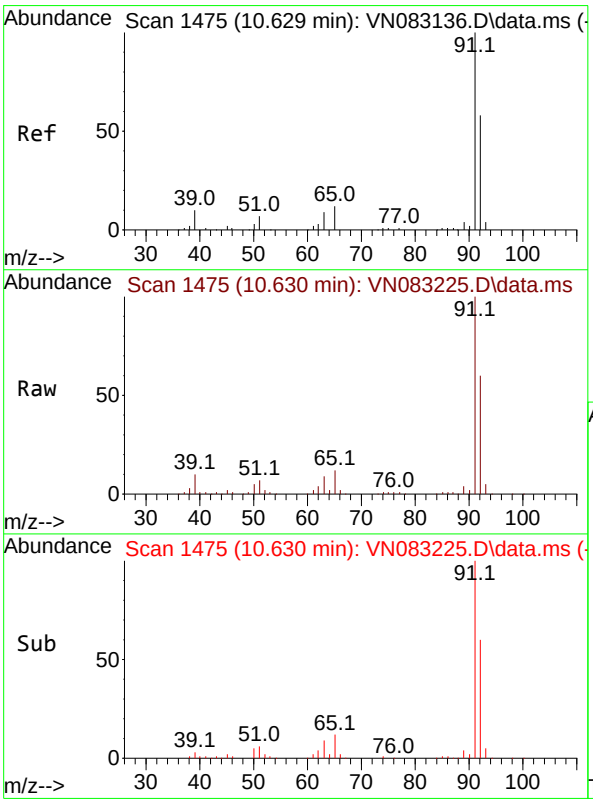
Ion	Ratio	Lower	Upper
43	100		
58	39.3	28.2	42.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

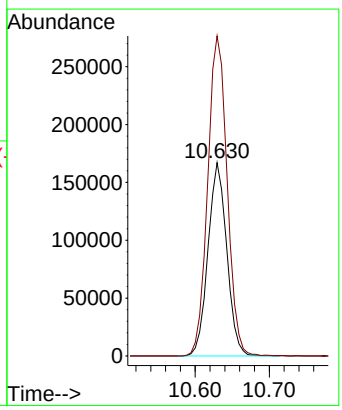
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

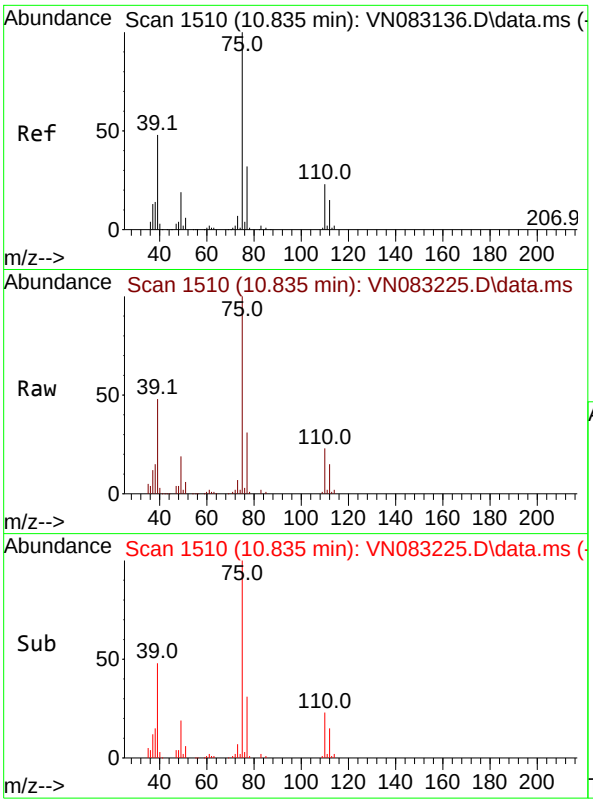


#52
Toluene
Concen: 54.202 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 92 Resp: 293708

Ion	Ratio	Lower	Upper
92	100		
91	171.5	139.4	209.0

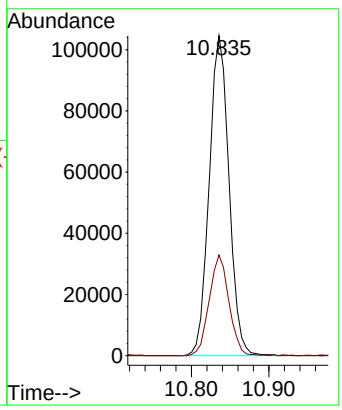




#53
t-1,3-Dichloropropene
Concen: 55.216 ug/l
RT: 10.835 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 75 Resp: 18556

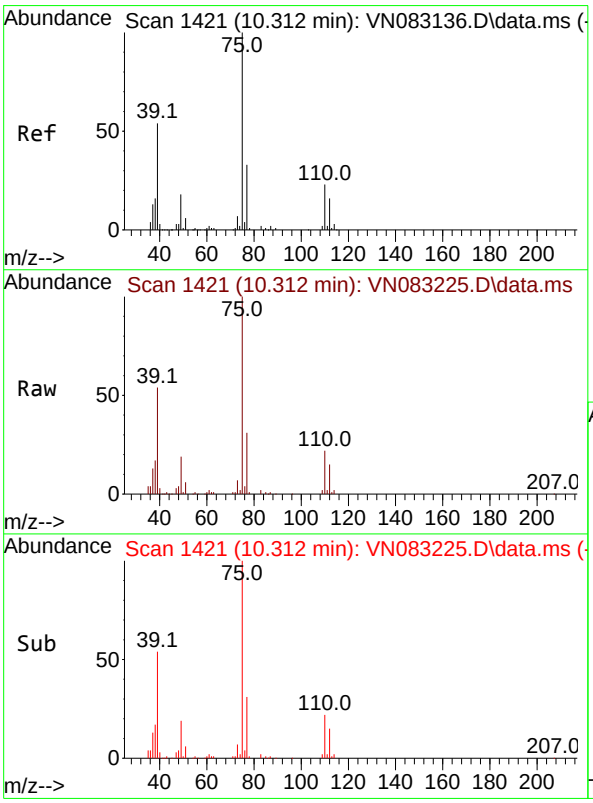
Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

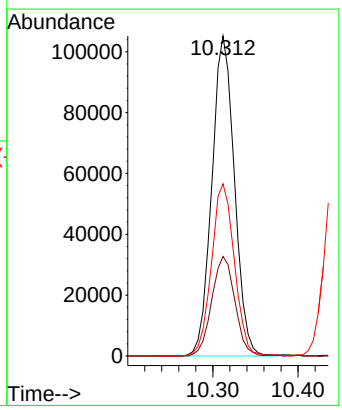
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

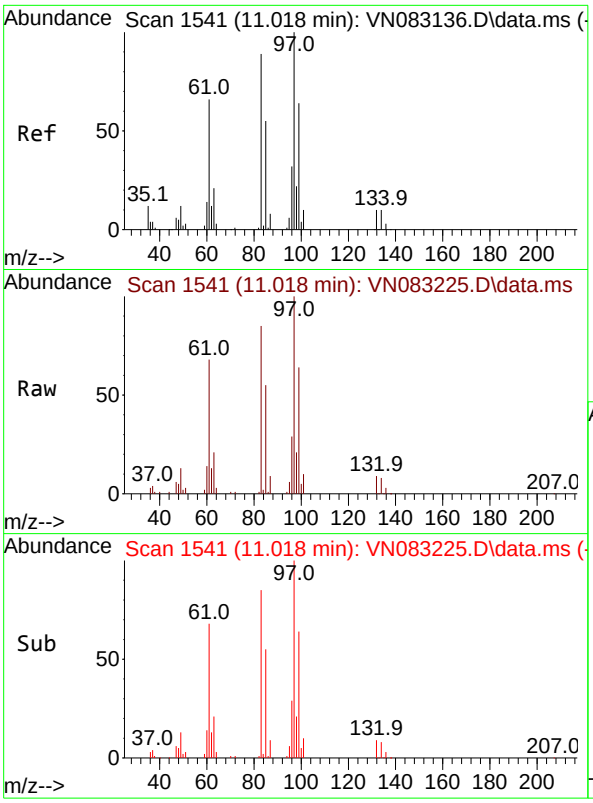


#54
cis-1,3-Dichloropropene
Concen: 54.265 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 75 Resp: 193978

Ion	Ratio	Lower	Upper
75	100		
77	31.1	24.3	36.5
39	53.8	50.5	75.7

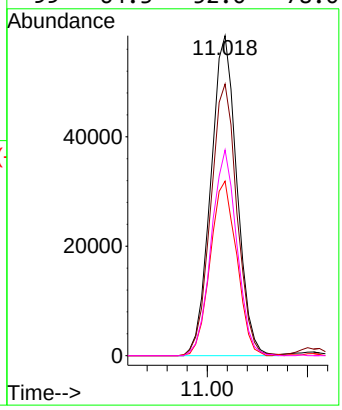




#55
1,1,2-Trichloroethane
Concen: 54.516 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 97 Resp: 10586

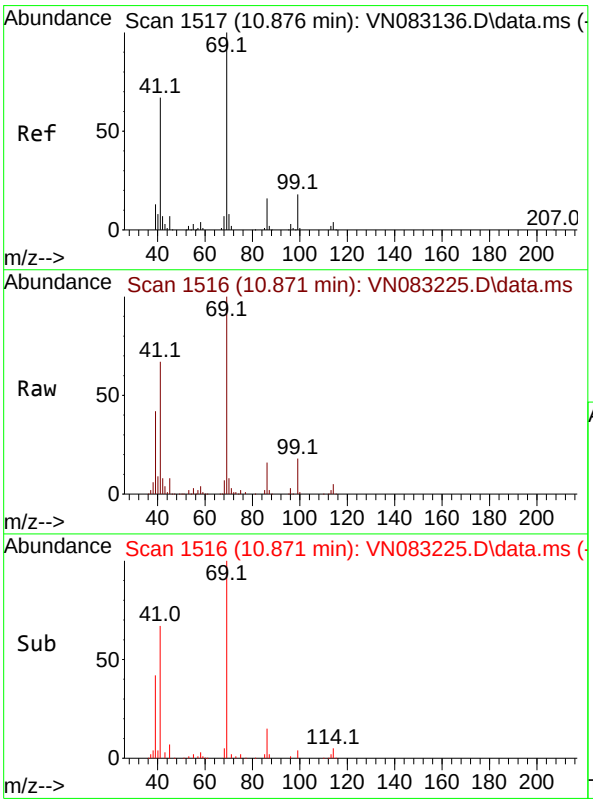
Ion	Ratio	Lower	Upper
97	100		
83	84.9	71.4	107.0
85	54.6	45.8	68.6
99	64.3	52.0	78.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

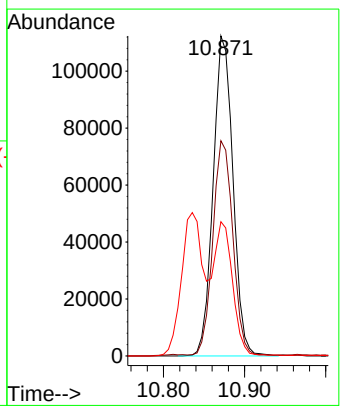
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

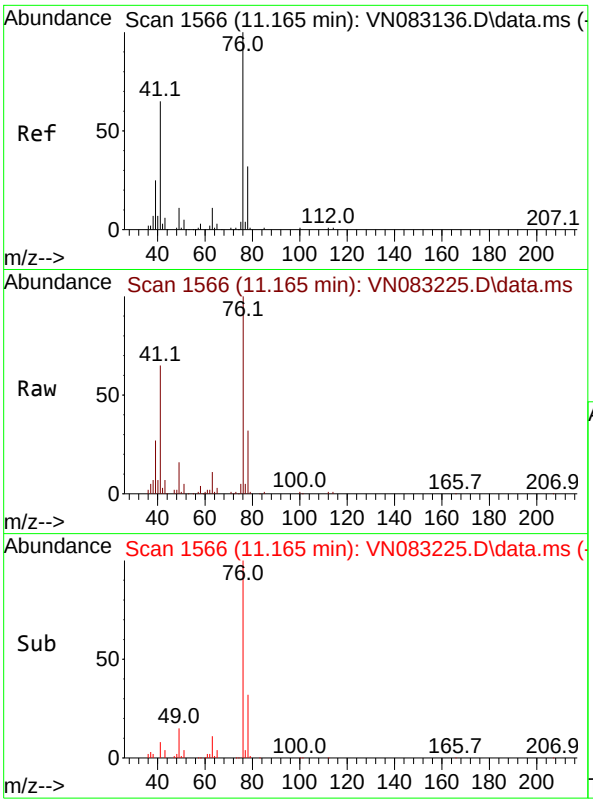


#56
Ethyl methacrylate
Concen: 52.076 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.006 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 69 Resp: 190644

Ion	Ratio	Lower	Upper
69	100		
41	67.6	63.4	95.2
39	40.7	37.4	56.0

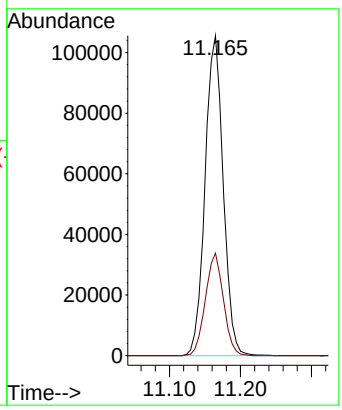




#57
1,3-Dichloropropane
Concen: 54.111 ug/l
RT: 11.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 76 Resp: 18729

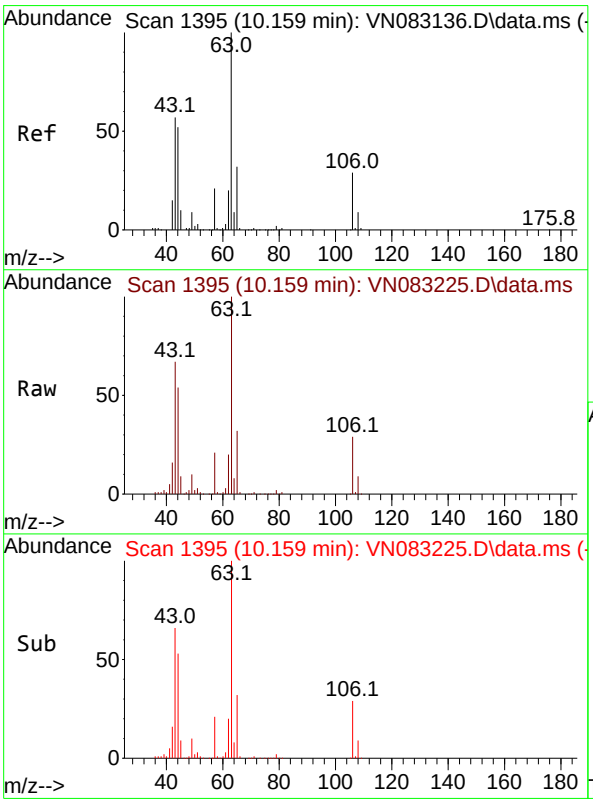
Ion	Ratio	Lower	Upper
76	100		
78	31.9	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

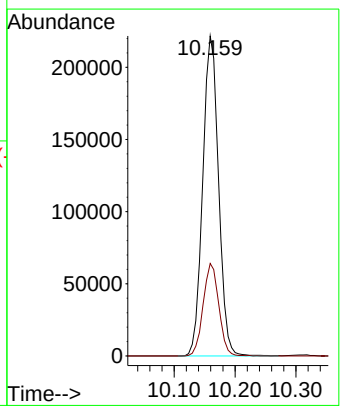
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

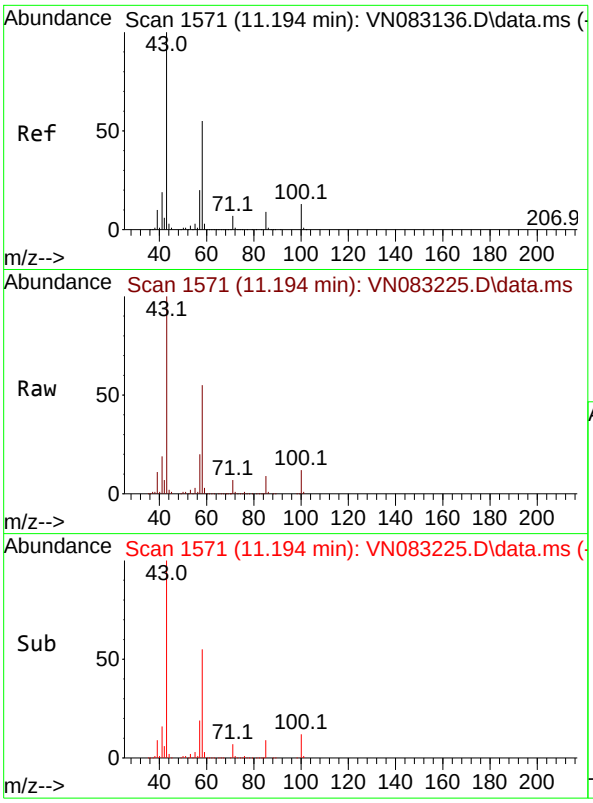


#58
2-Chloroethyl Vinyl ether
Concen: 259.113 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 63 Resp: 400965

Ion	Ratio	Lower	Upper
63	100		
106	28.5	21.4	32.0





#59
2-Hexanone
Concen: 251.771 ug/l
RT: 11.194 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

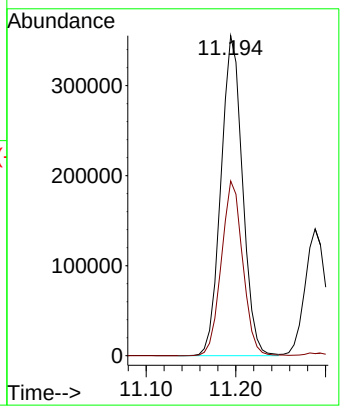
Tgt Ion: 43 Resp: 59371

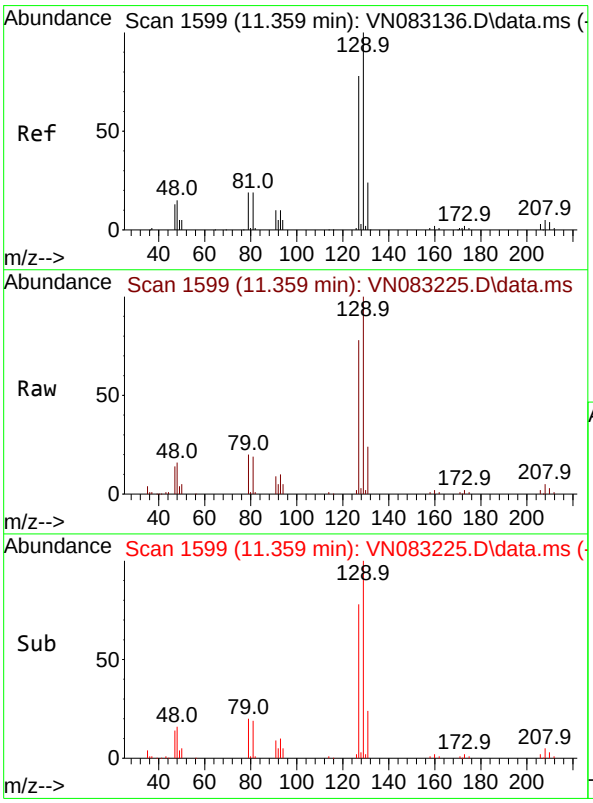
Ion	Ratio	Lower	Upper
43	100		
58	54.0	24.6	73.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

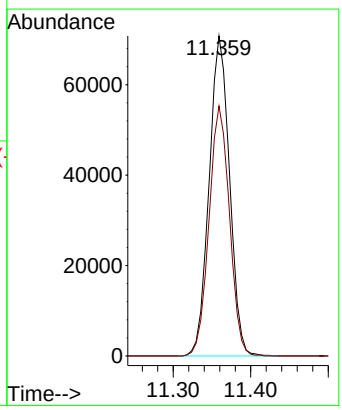


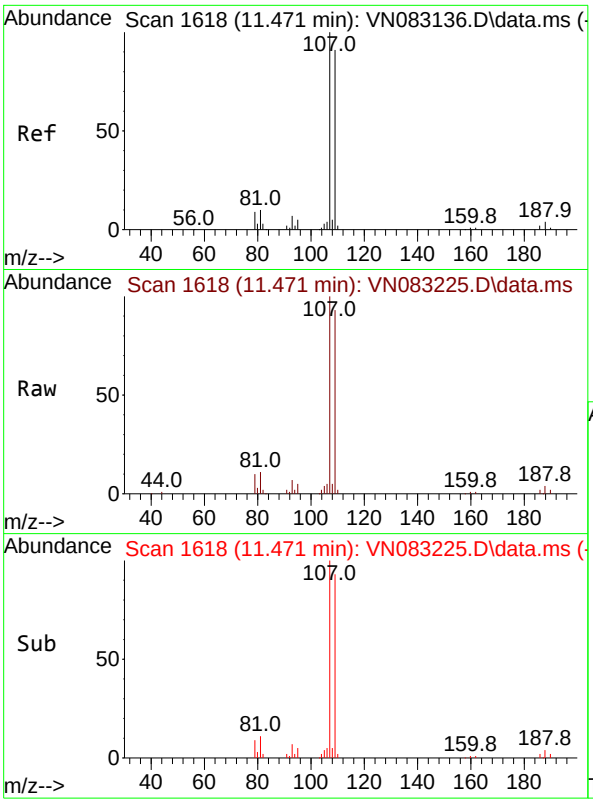


#60
Dibromochloromethane
Concen: 55.151 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion:129 Resp: 129486

Ion	Ratio	Lower	Upper
129	100		
127	78.2	39.2	117.6

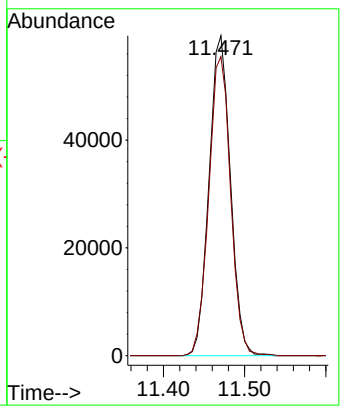




#61
1,2-Dibromoethane
Concen: 53.196 ug/l
RT: 11.471 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion:107 Resp: 10851

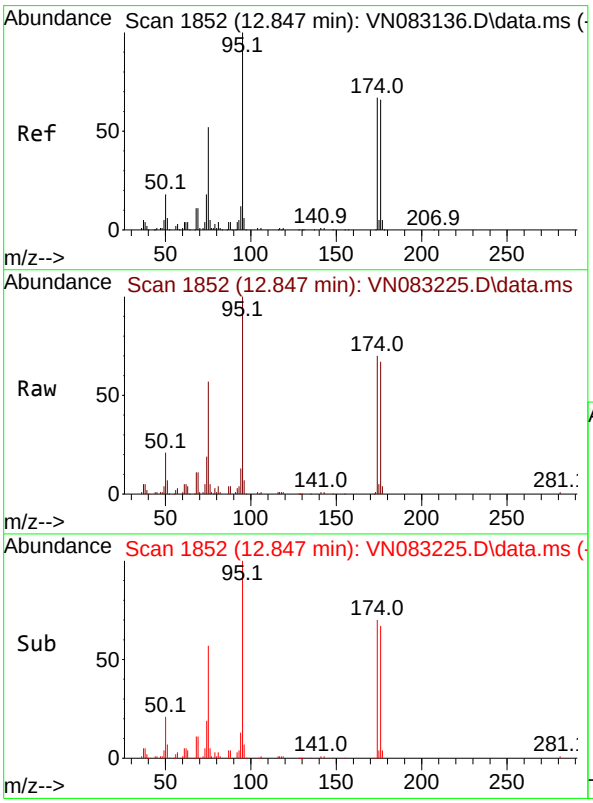
Ion	Ratio	Lower	Upper
107	100		
109	95.4	73.7	110.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

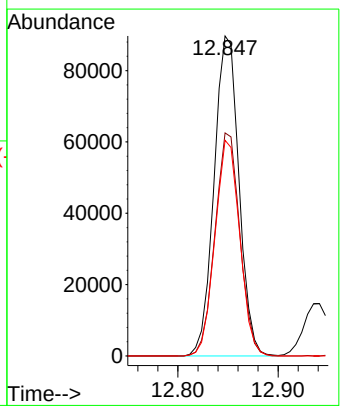
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

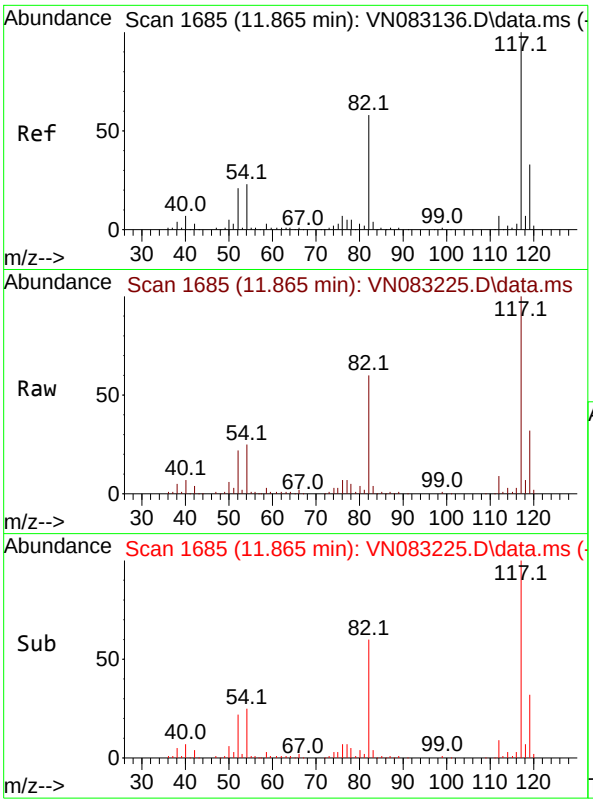


#62
4-Bromofluorobenzene
Concen: 55.812 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 95 Resp: 154465

Ion	Ratio	Lower	Upper
95	100		
174	69.7	0.0	159.2
176	67.1	0.0	147.6

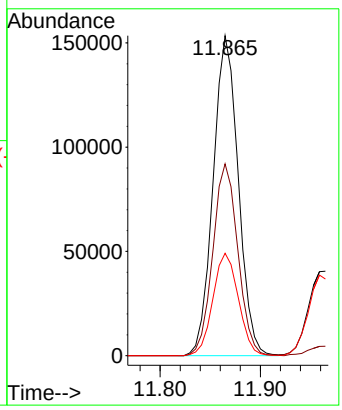




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion:117 Resp: 26716

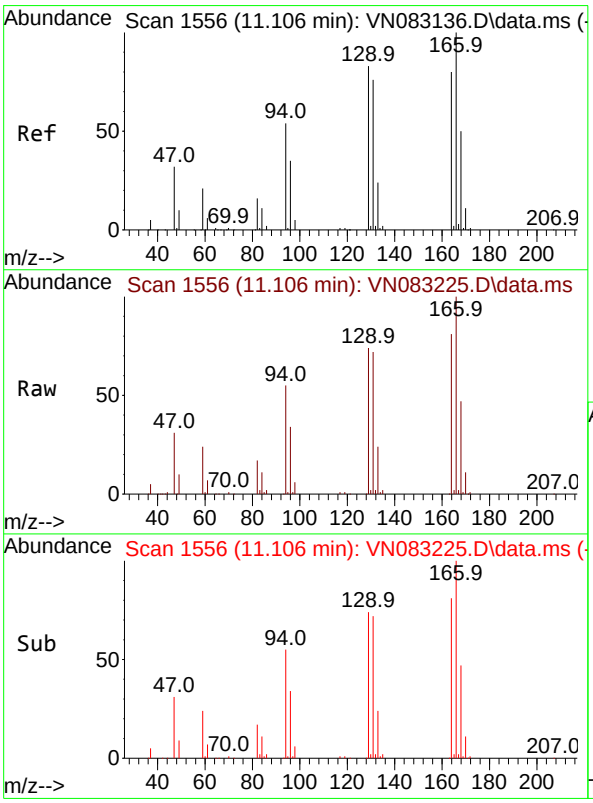
Ion	Ratio	Lower	Upper
117	100		
82	60.0	47.5	71.3
119	32.0	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

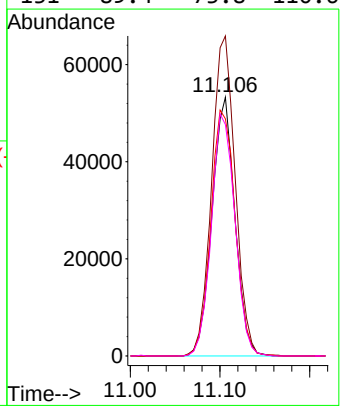
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

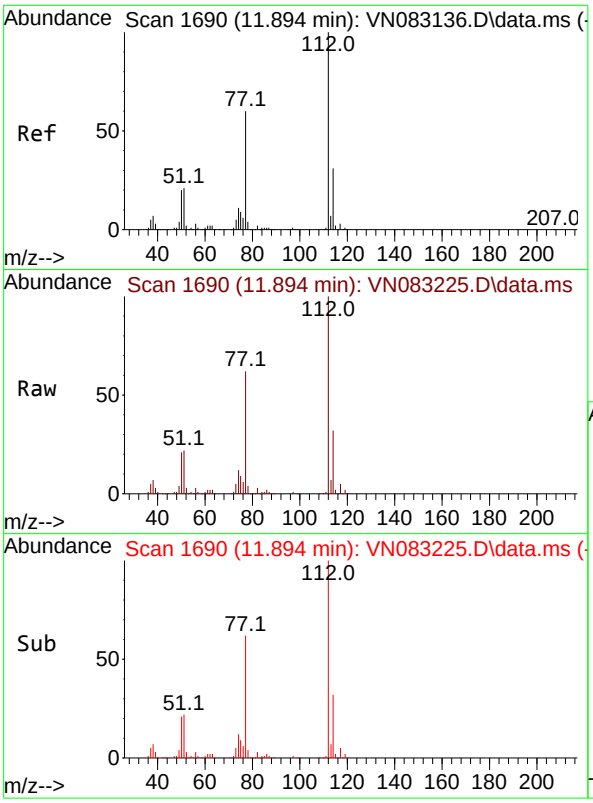


#64
Tetrachloroethene
Concen: 53.298 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion:164 Resp: 94303

Ion	Ratio	Lower	Upper
164	100		
166	123.7	101.4	152.0
129	91.7	75.7	113.5
131	89.4	73.8	110.6

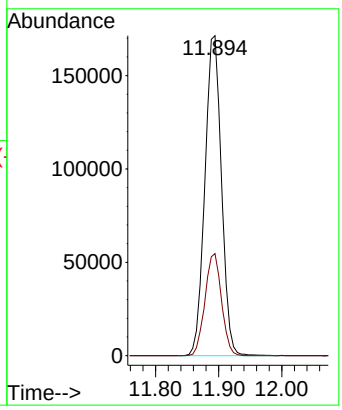




#65
Chlorobenzene
Concen: 52.987 ug/l
RT: 11.894 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion:112 Resp: 31283

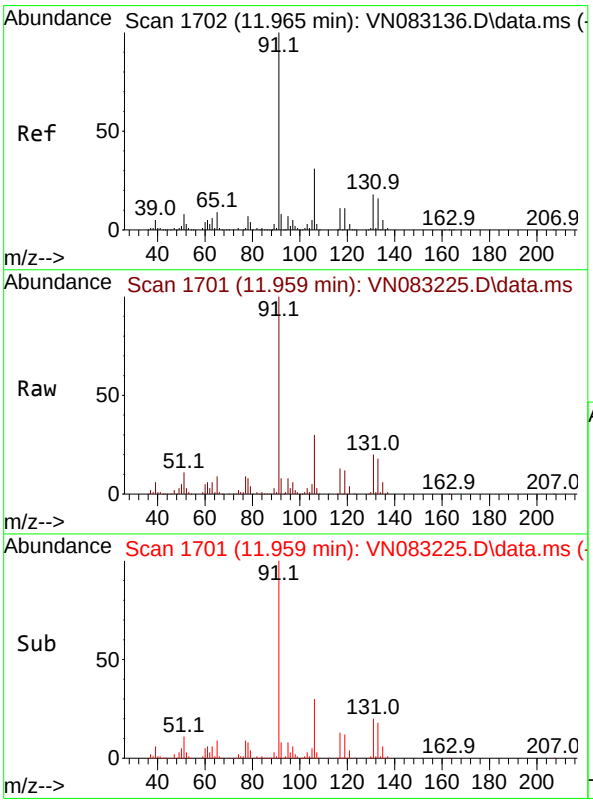
Ion	Ratio	Lower	Upper
112	100		
114	31.9	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

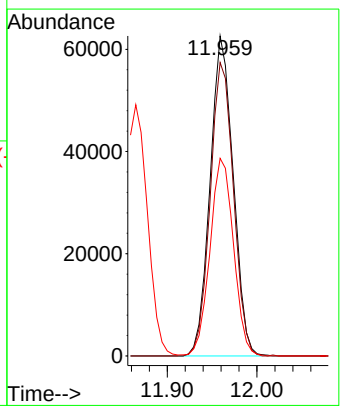
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

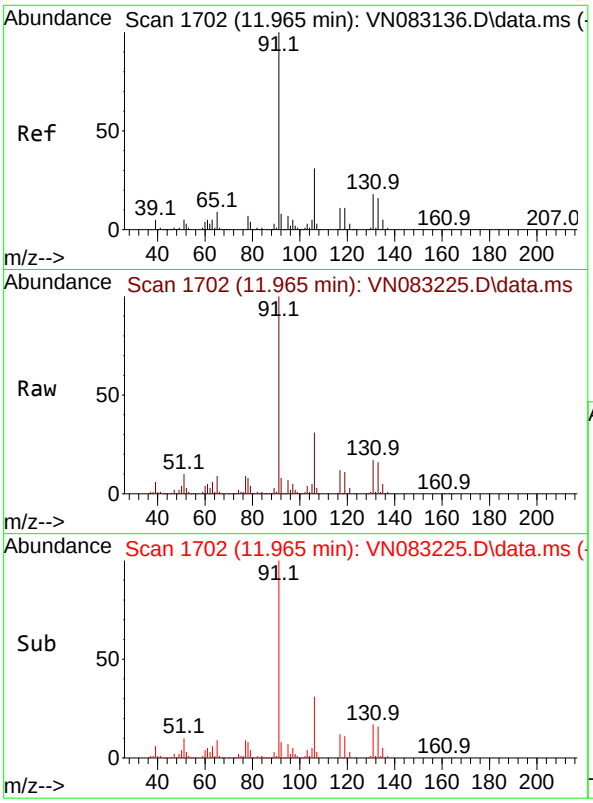


#66
1,1,1,2-Tetrachloroethane
Concen: 53.701 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion:131 Resp: 111819

Ion	Ratio	Lower	Upper
131	100		
133	92.5	47.3	142.0
119	63.0	32.5	97.4

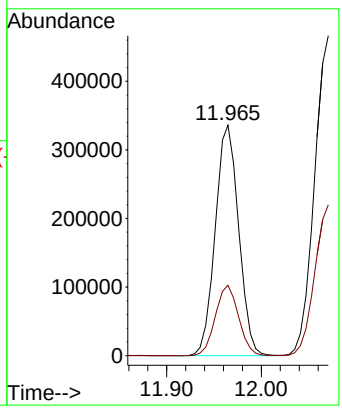




#67
Ethyl Benzene
Concen: 53.269 ug/l
RT: 11.965 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 91 Resp: 57694

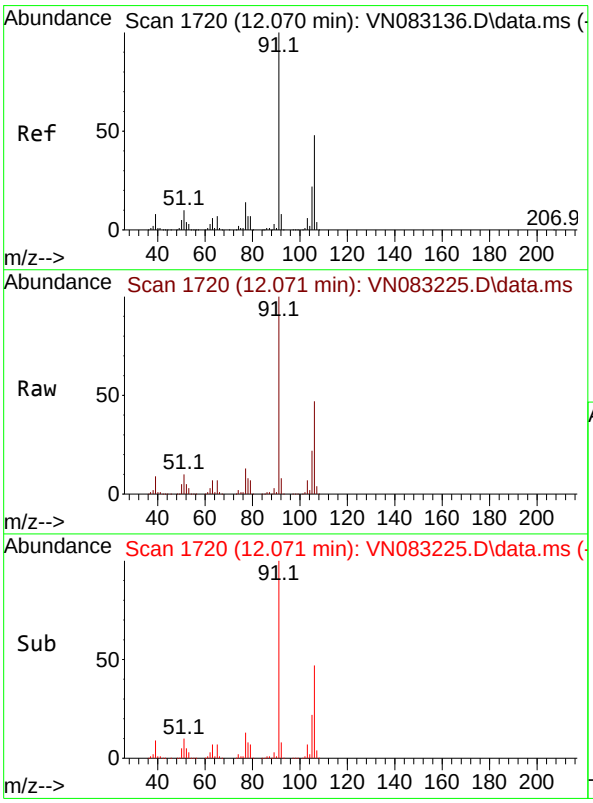
Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

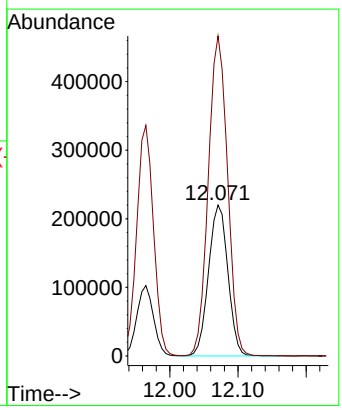
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

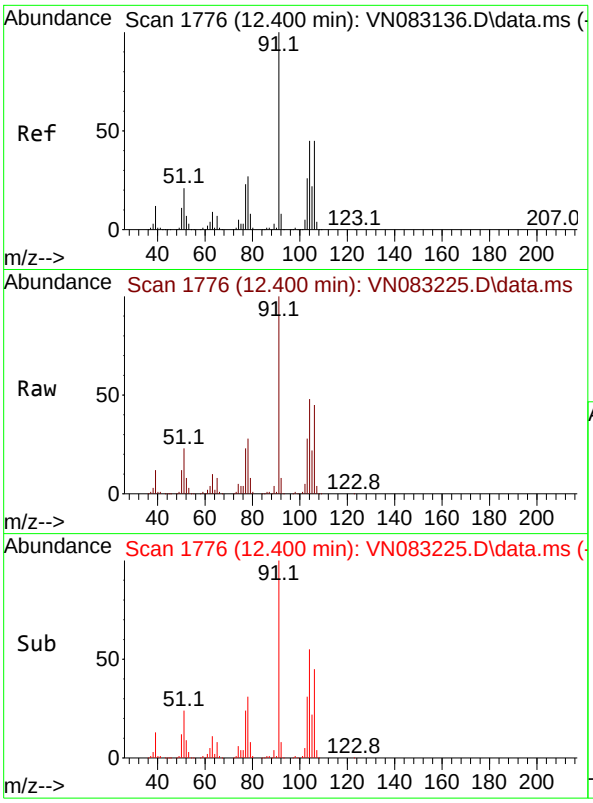


#68
m/p-Xylenes
Concen: 107.195 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion:106 Resp: 434899

Ion	Ratio	Lower	Upper
106	100		
91	210.2	166.1	249.1

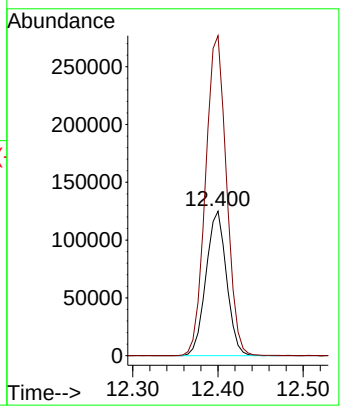




#69
o-Xylene
Concen: 52.315 ug/l
RT: 12.400 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion:106 Resp: 20933

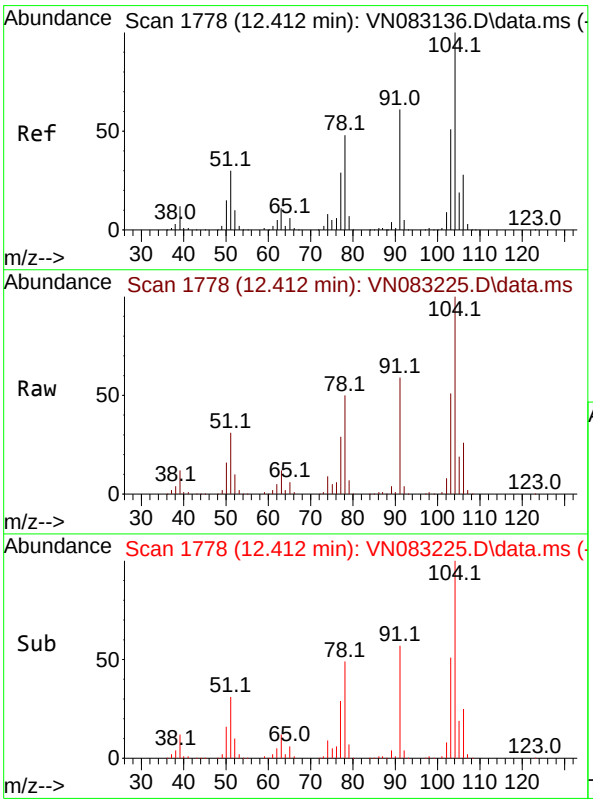
Ion	Ratio	Lower	Upper
106	100		
91	226.0	111.3	333.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

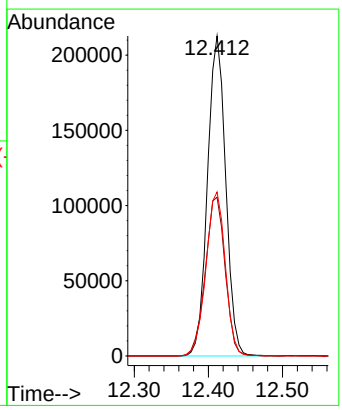
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

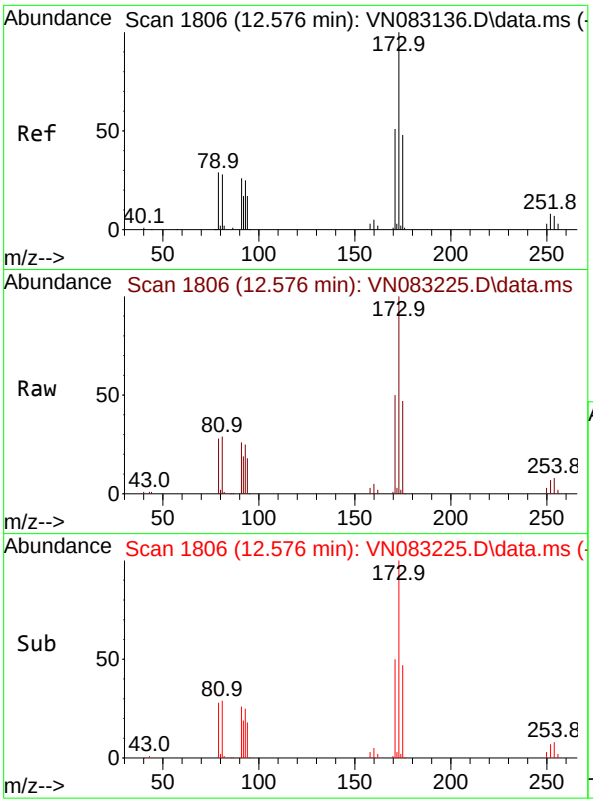


#70
Styrene
Concen: 54.007 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion:104 Resp: 362959

Ion	Ratio	Lower	Upper
104	100		
78	54.0	41.6	62.4
103	54.6	44.0	66.0

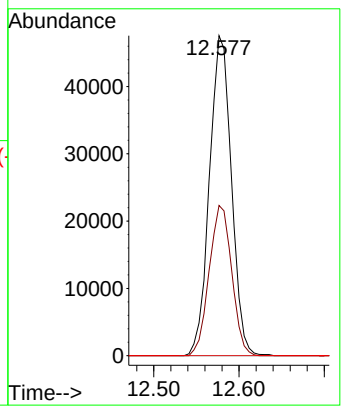




#71
Bromoform
Concen: 53.942 ug/l
RT: 12.576 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion:173 Resp: 8508

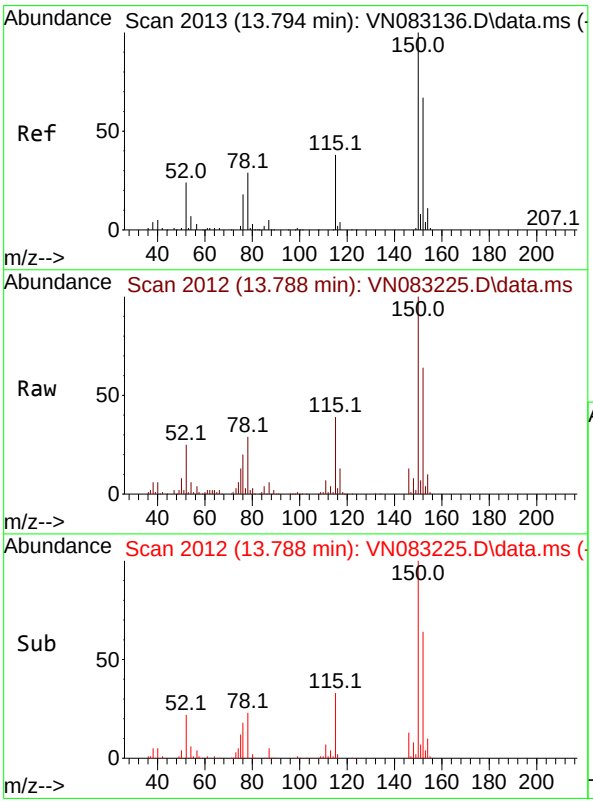
Ion	Ratio	Lower	Upper
173	100		
175	48.2	24.0	72.0
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

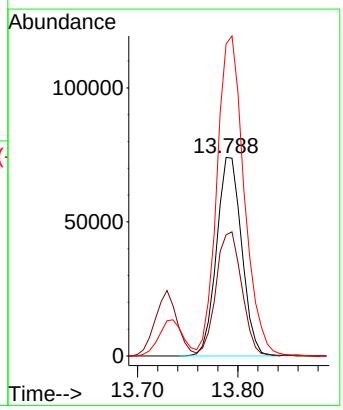
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

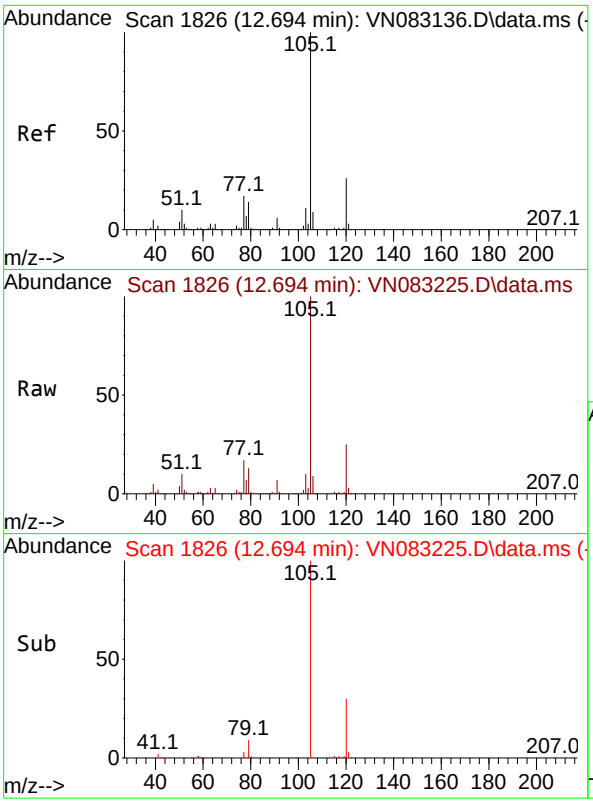


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion:152 Resp: 128278

Ion	Ratio	Lower	Upper
152	100		
115	64.5	30.6	91.6
150	174.9	0.0	348.6

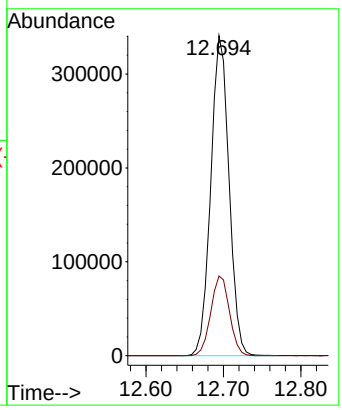




#73
Isopropylbenzene
Concen: 51.874 ug/l
RT: 12.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion:105 Resp: 55658

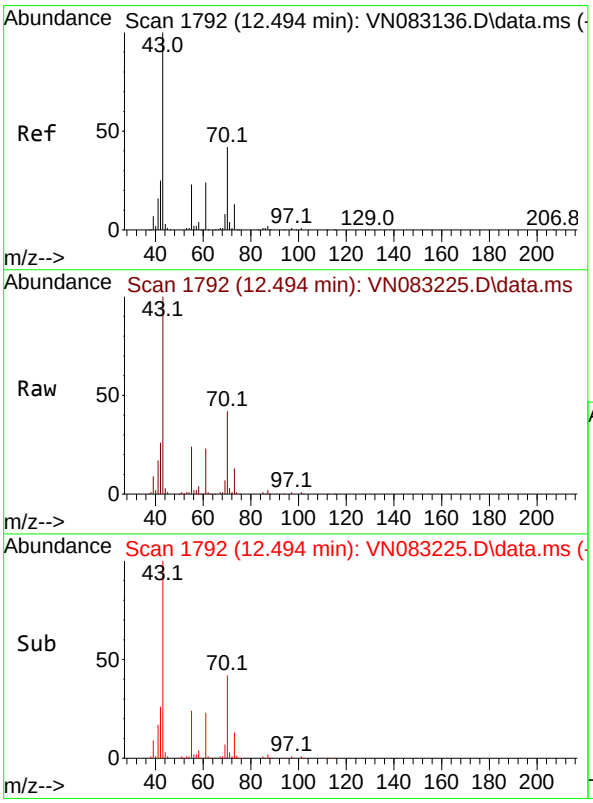
Ion	Ratio	Lower	Upper
105	100		
120	25.4	12.9	38.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

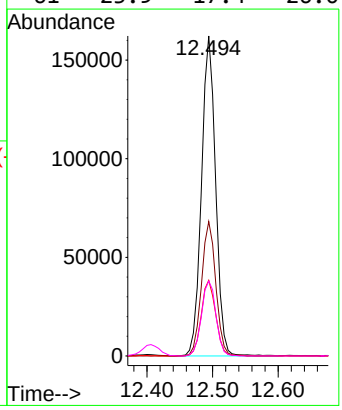
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

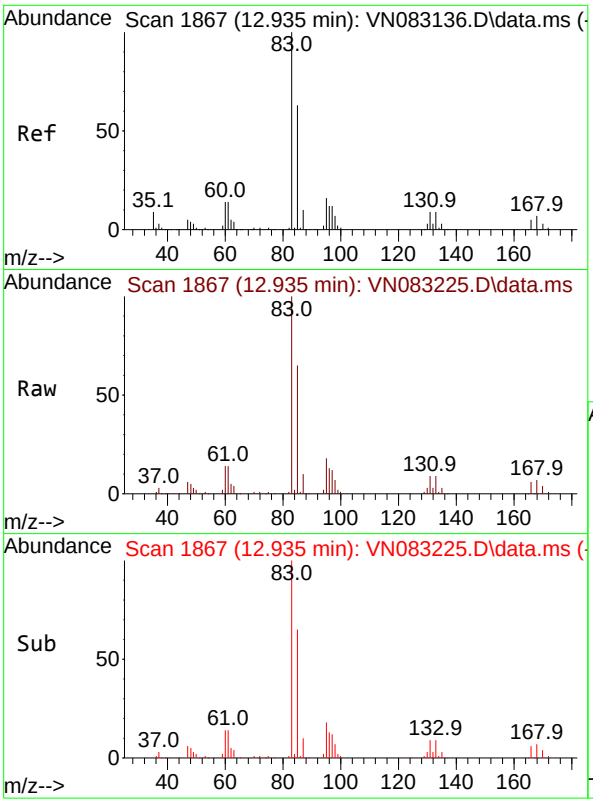


#74
N-amyl acetate
Concen: 46.518 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 43 Resp: 244139

Ion	Ratio	Lower	Upper
43	100		
70	42.3	29.8	44.6
55	24.1	18.7	28.1
61	23.9	17.4	26.0

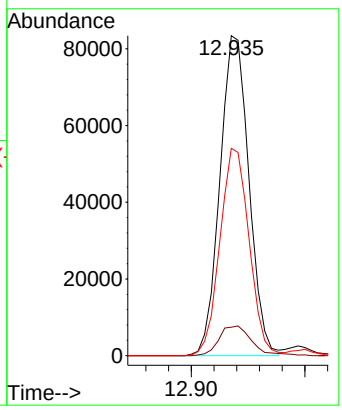




#75
1,1,2,2-Tetrachloroethane
Concen: 48.762 ug/l
RT: 12.935 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 83 Resp: 14797

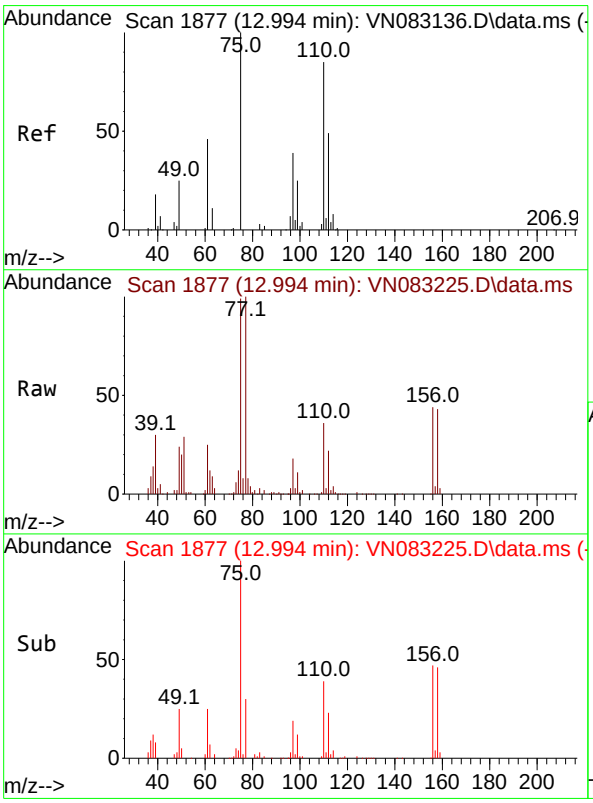
Ion	Ratio	Lower	Upper
83	100		
131	10.5	5.0	14.9
85	65.3	31.9	95.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

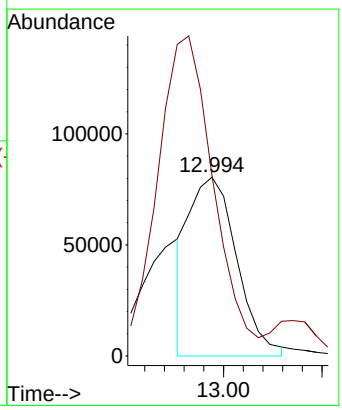
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

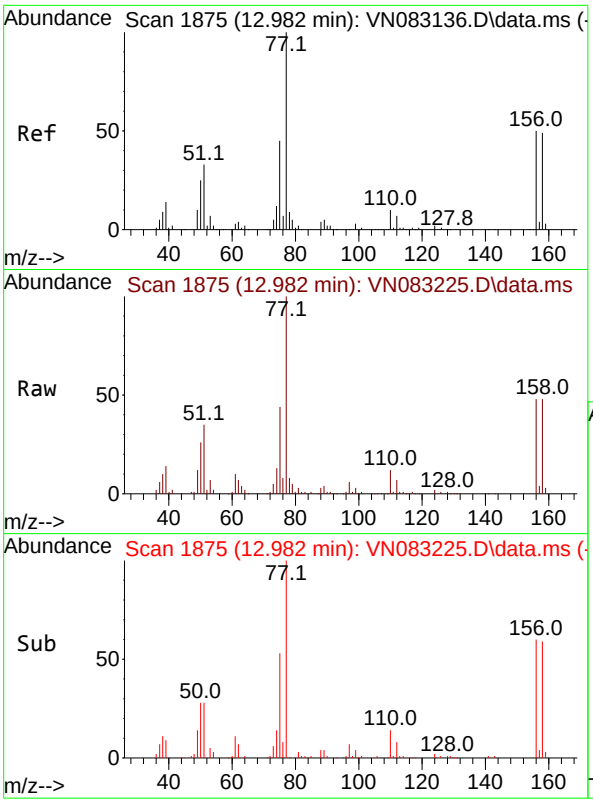


#76
1,2,3-Trichloropropane
Concen: 48.197 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 75 Resp: 135692

Ion	Ratio	Lower	Upper
75	100		
77	211.7	110.9	332.6

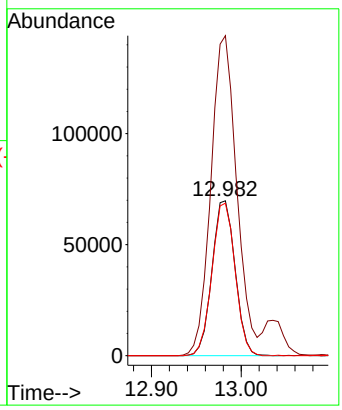




#77
Bromobenzene
Concen: 52.326 ug/l
RT: 12.982 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion:156 Resp: 12471

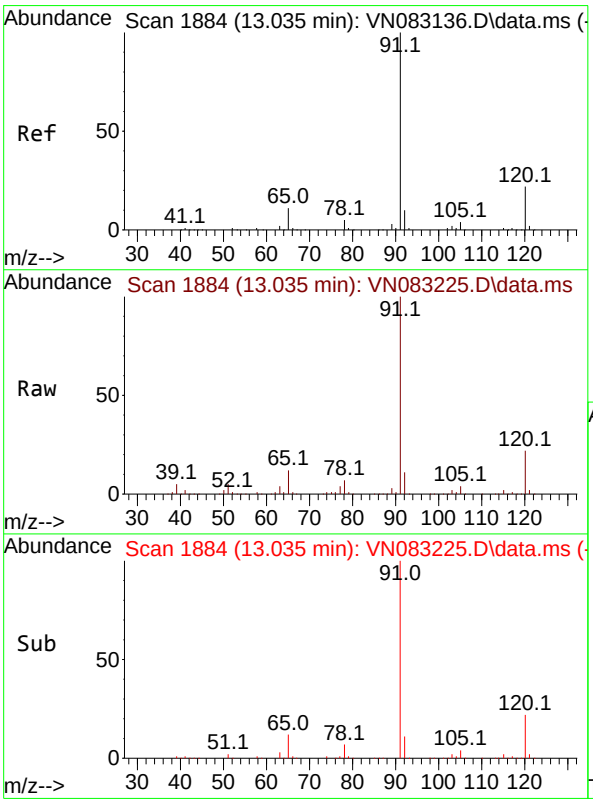
Ion	Ratio	Lower	Upper
156	100		
77	230.4	111.3	333.8
158	98.6	48.3	144.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

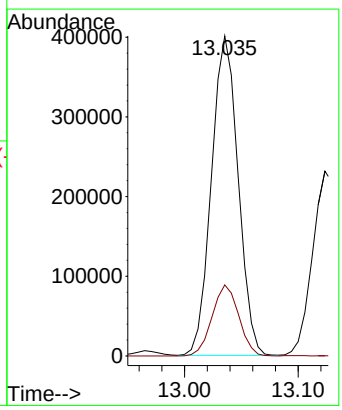
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

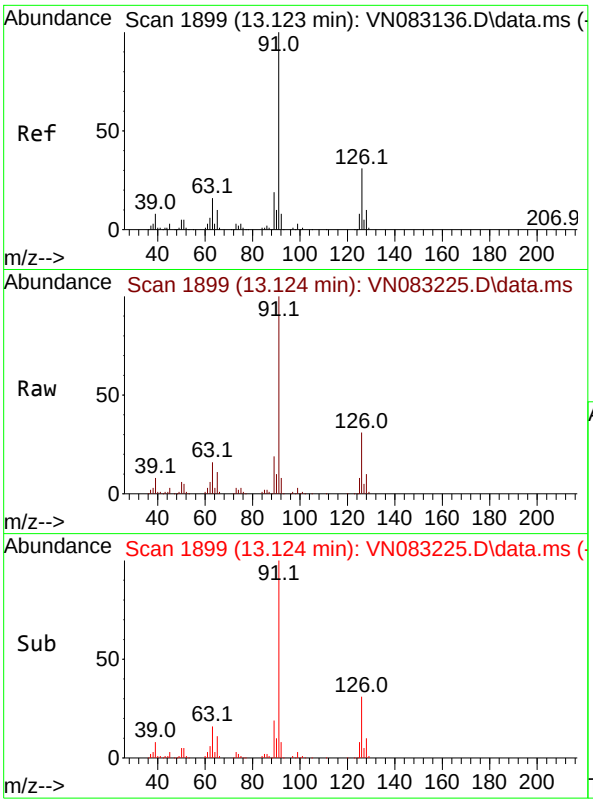


#78
n-propylbenzene
Concen: 52.997 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 91 Resp: 654772

Ion	Ratio	Lower	Upper
91	100		
120	22.2	10.9	32.9

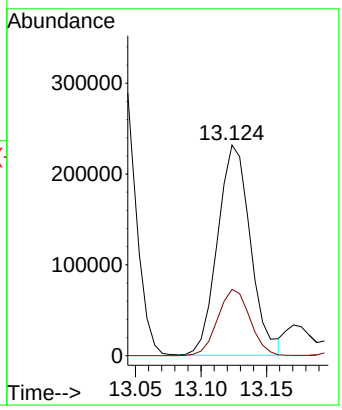




#79
2-Chlorotoluene
Concen: 51.627 ug/l
RT: 13.124 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 91 Resp: 40438

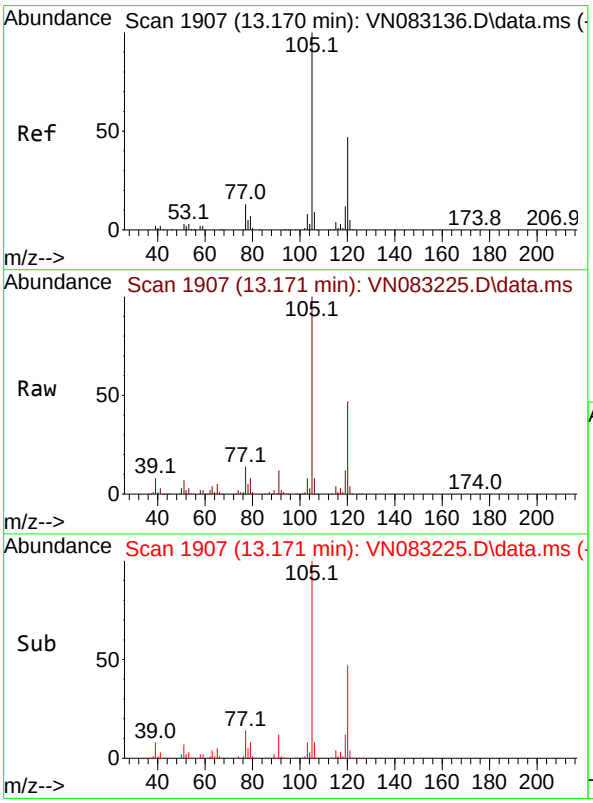
Ion	Ratio	Lower	Upper
91	100		
126	30.9	16.2	48.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

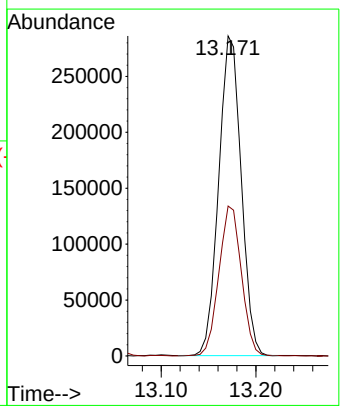
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

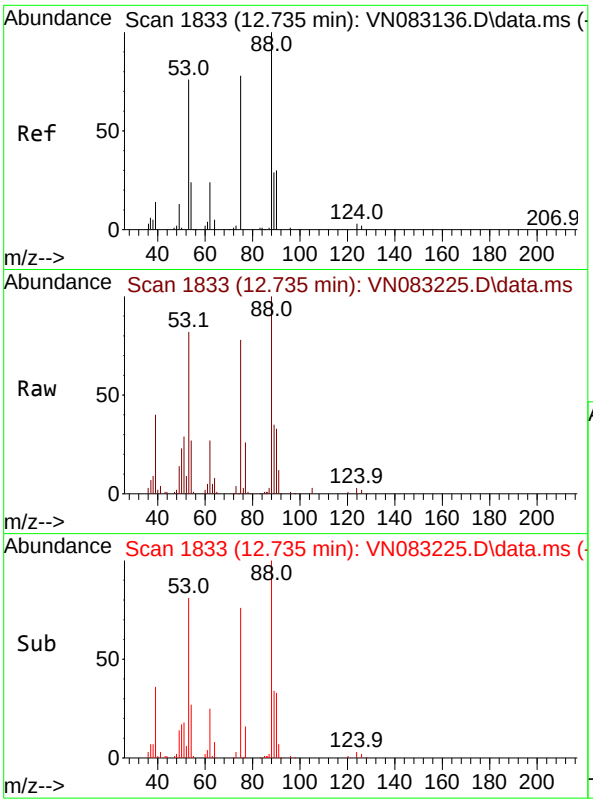


#80
1,3,5-Trimethylbenzene
Concen: 52.517 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion:105 Resp: 471752

Ion	Ratio	Lower	Upper
105	100		
120	47.1	24.3	72.8

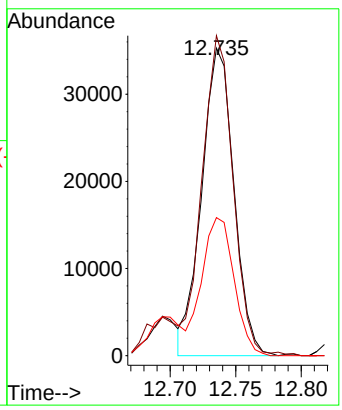




#81
trans-1,4-Dichloro-2-butene
Concen: 46.546 ug/l
RT: 12.735 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 75 Resp: 6024

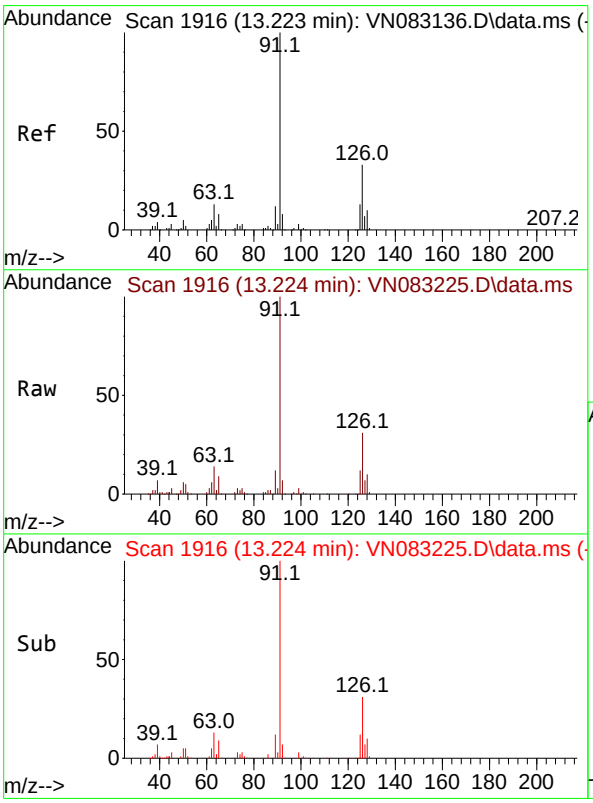
Ion	Ratio	Lower	Upper
75	100		
53	100.6	88.4	132.6
89	44.9	36.3	54.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

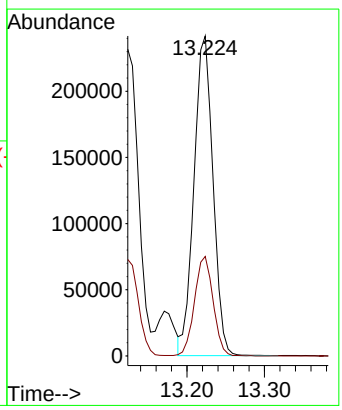
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

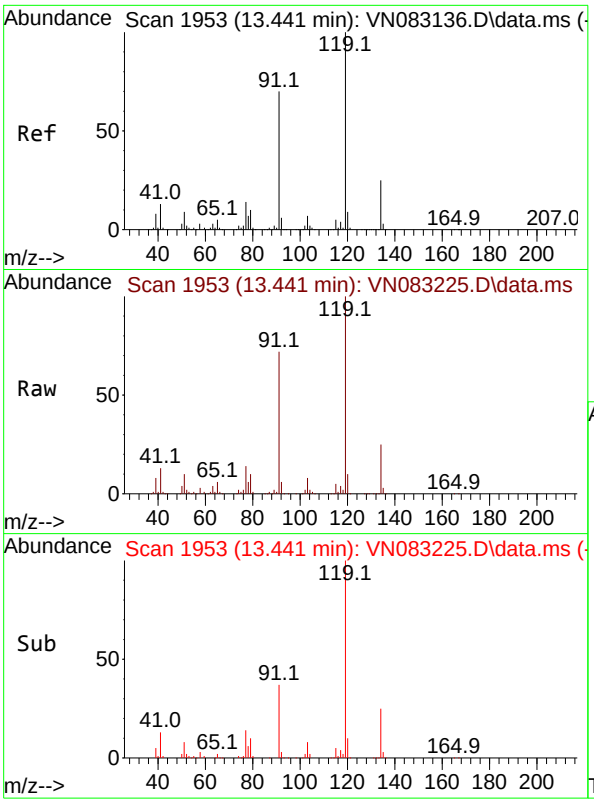


#82
4-Chlorotoluene
Concen: 52.295 ug/l
RT: 13.224 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 91 Resp: 410875

Ion	Ratio	Lower	Upper
91	100		
126	30.6	16.2	48.6

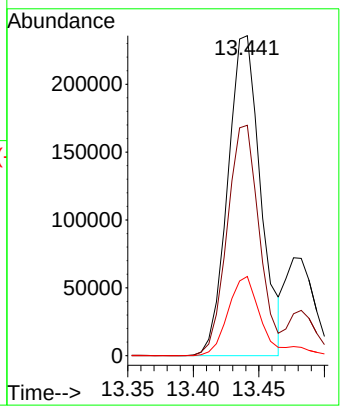




#83
tert-Butylbenzene
Concen: 51.631 ug/l
RT: 13.441 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion:119 Resp: 41072

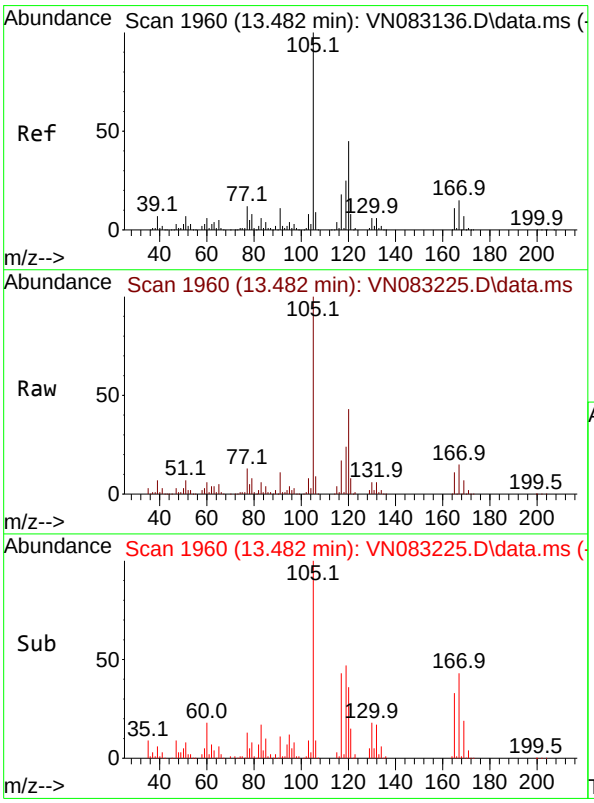
Ion	Ratio	Lower	Upper
119	100		
91	70.4	35.0	105.1
134	25.8	13.3	39.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

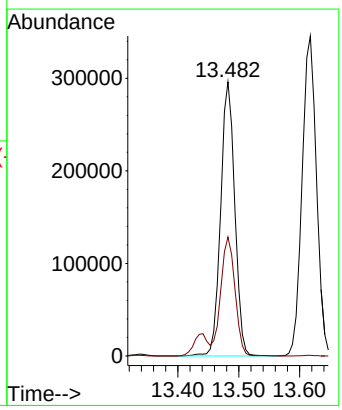
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

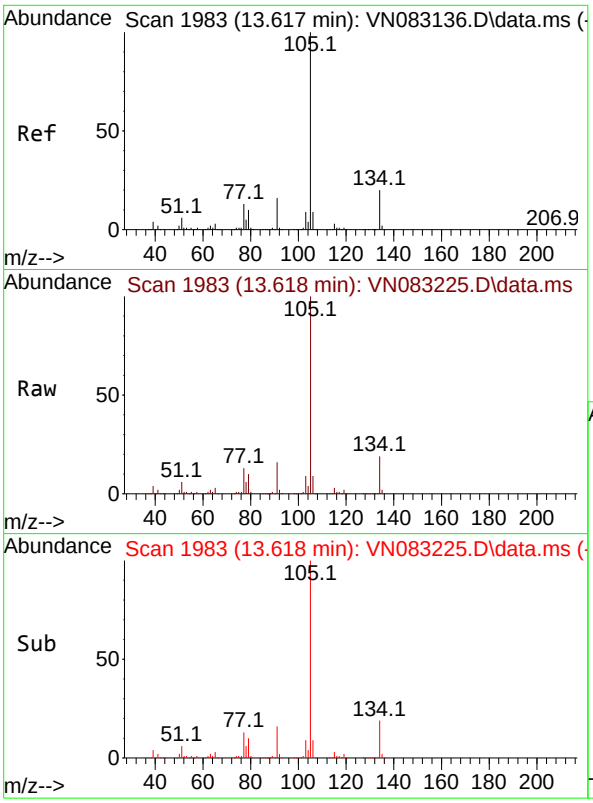


#84
1,2,4-Trimethylbenzene
Concen: 52.727 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion:105 Resp: 477317

Ion	Ratio	Lower	Upper
105	100		
120	43.4	21.9	65.8

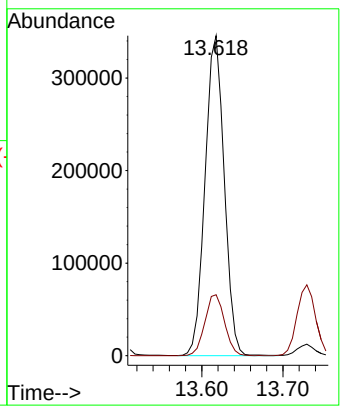




#85
sec-Butylbenzene
Concen: 52.249 ug/l
RT: 13.618 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion:105 Resp: 56714

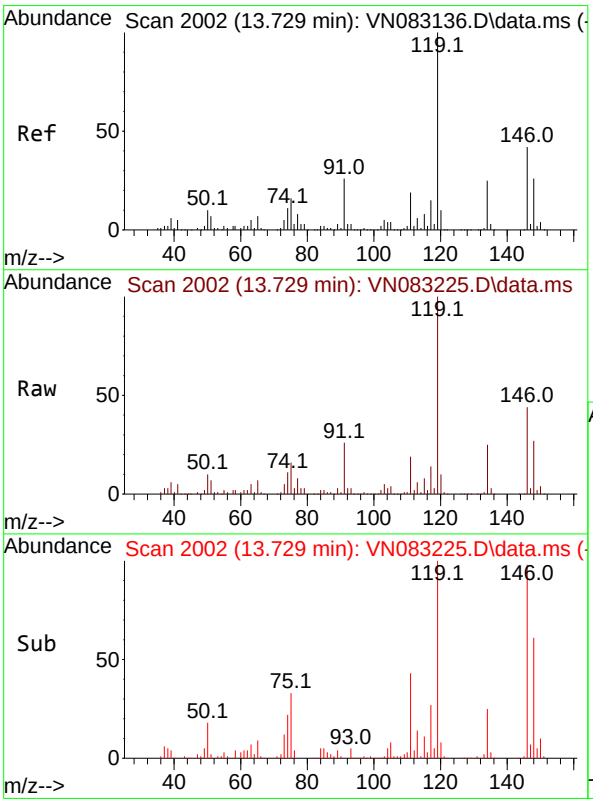
Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

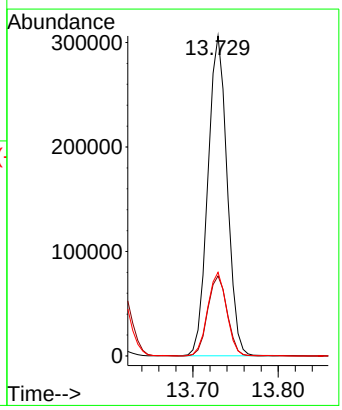
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

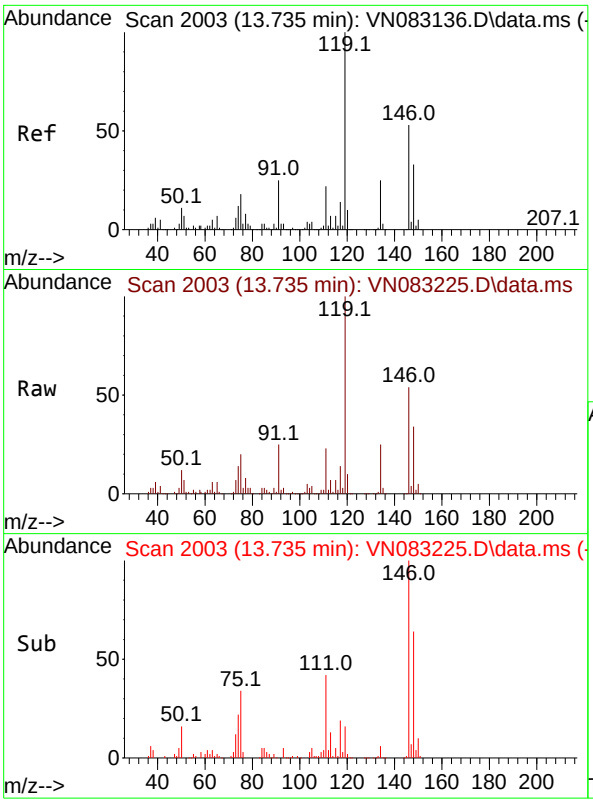


#86
p-Isopropyltoluene
Concen: 53.556 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion:119 Resp: 479994

Ion	Ratio	Lower	Upper
119	100		
134	25.2	13.0	39.0
91	25.8	12.3	36.9

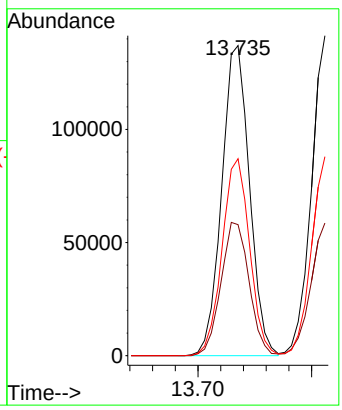




#87
1,3-Dichlorobenzene
Concen: 51.823 ug/l
RT: 13.735 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion:146 Resp: 23242

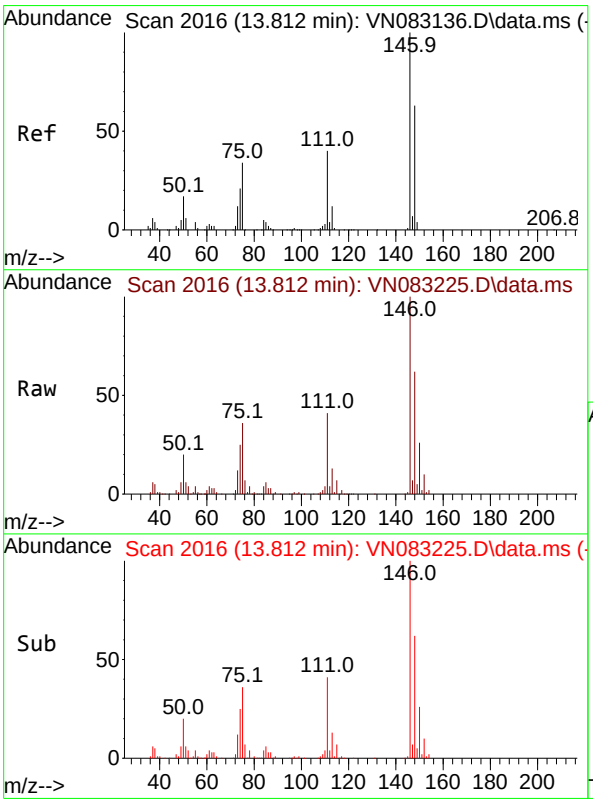
Ion	Ratio	Lower	Upper
146	100		
111	43.6	20.6	61.9
148	63.1	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

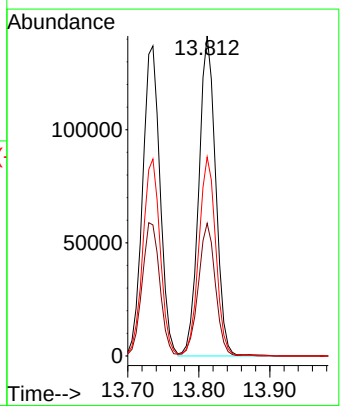
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

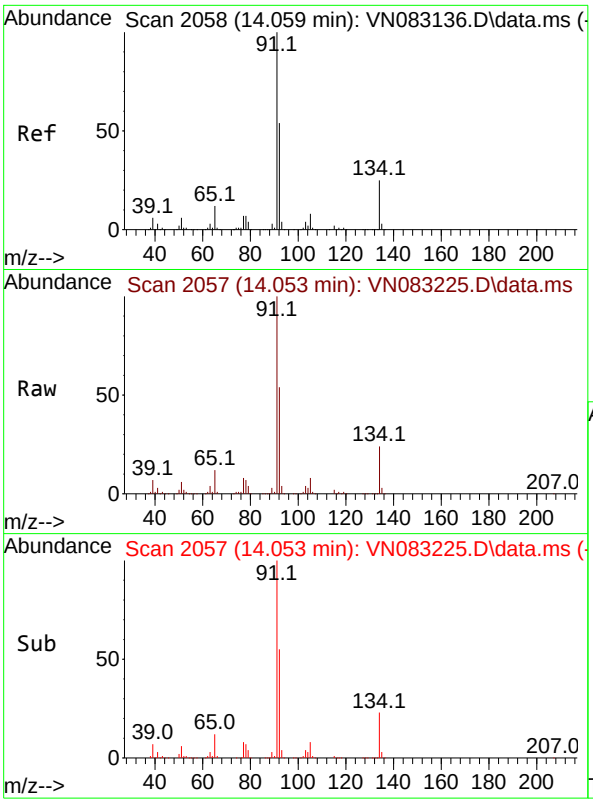


#88
1,4-Dichlorobenzene
Concen: 51.781 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion:146 Resp: 234120

Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.1	60.3
148	62.4	32.2	96.6





#89
n-Butylbenzene
Concen: 55.556 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

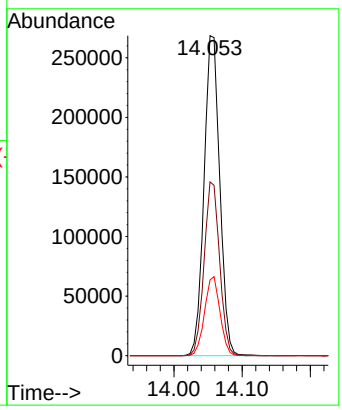
Tgt Ion: 91 Resp: 43144

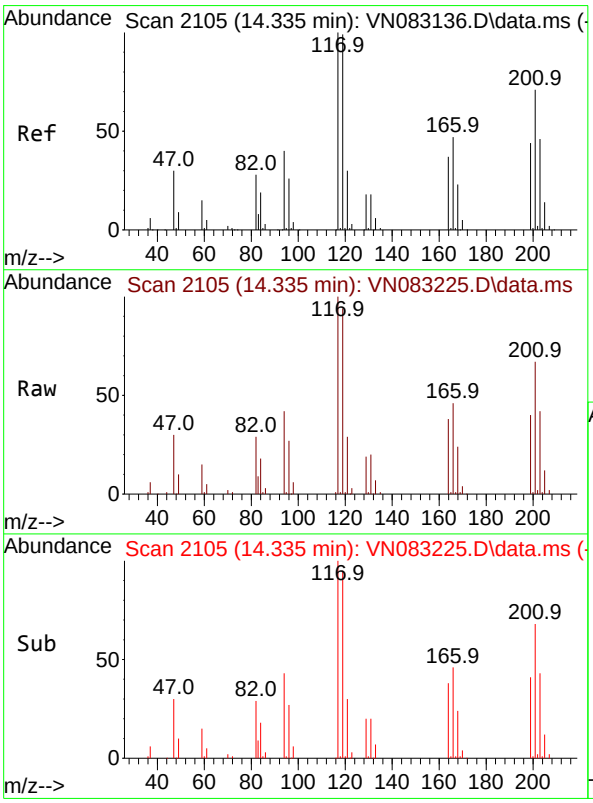
Ion	Ratio	Lower	Upper
91	100		
92	53.5	26.1	78.3
134	24.2	12.1	36.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

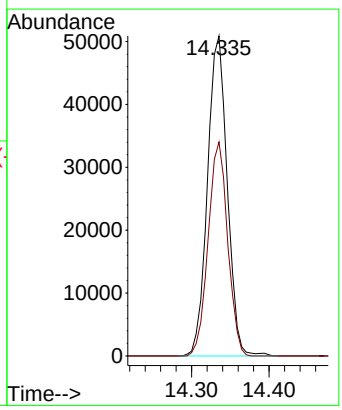


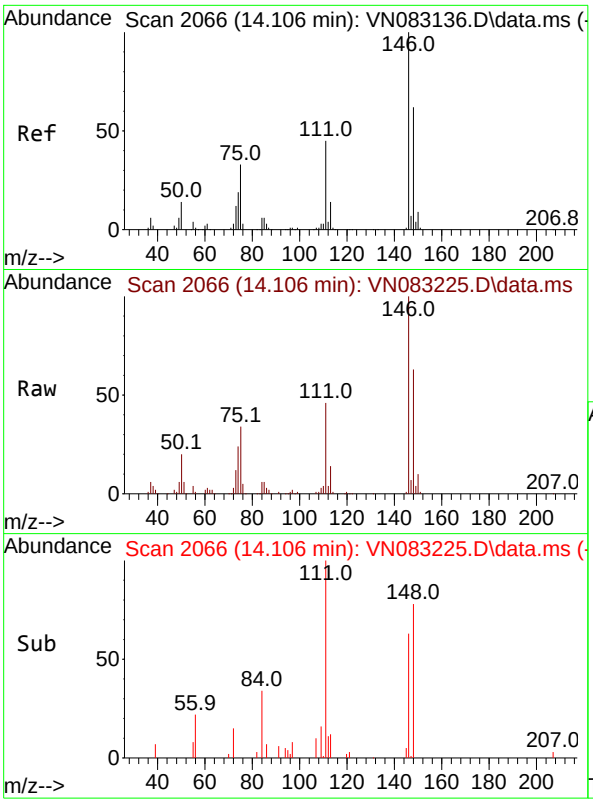


#90
Hexachloroethane
Concen: 51.985 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion:117 Resp: 90014

Ion	Ratio	Lower	Upper
117	100		
201	66.0	35.8	107.3

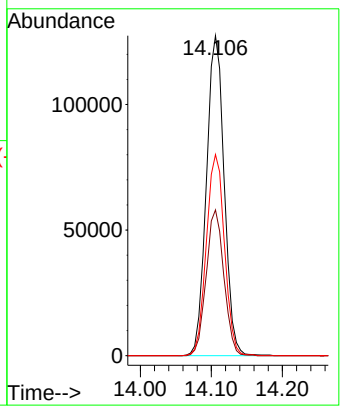




#91
1,2-Dichlorobenzene
Concen: 51.015 ug/l
RT: 14.106 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion:146 Resp: 22140

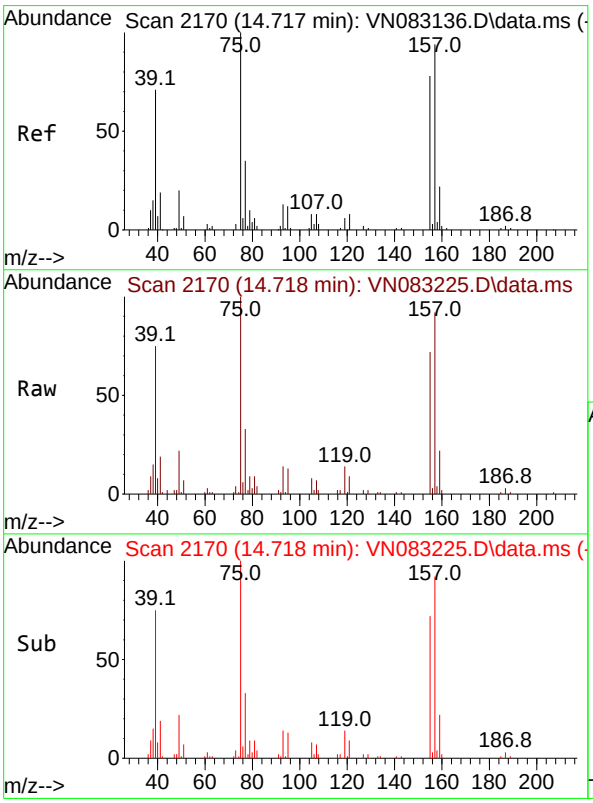
Ion	Ratio	Lower	Upper
146	100		
111	45.5	21.4	64.2
148	64.1	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

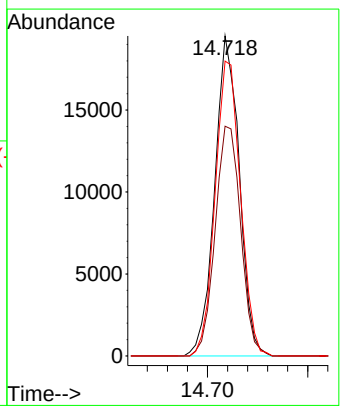
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

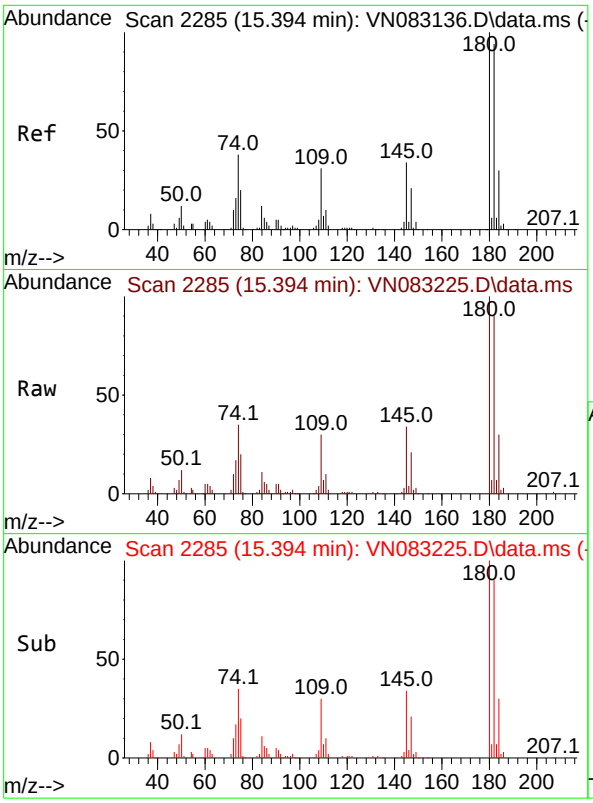


#92
1,2-Dibromo-3-Chloropropane
Concen: 45.011 ug/l
RT: 14.718 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion: 75 Resp: 33146

Ion	Ratio	Lower	Upper
75	100		
155	74.7	36.6	109.8
157	95.0	46.9	140.6

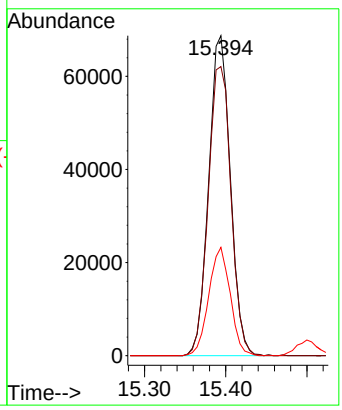




#93
1,2,4-Trichlorobenzene
Concen: 52.346 ug/l
RT: 15.394 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion:180 Resp: 12727

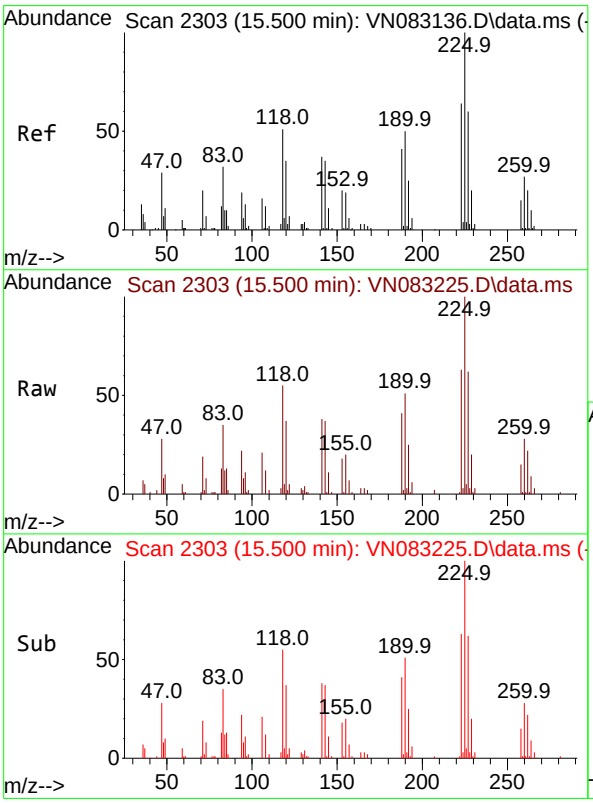
Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.3	141.8
145	33.6	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

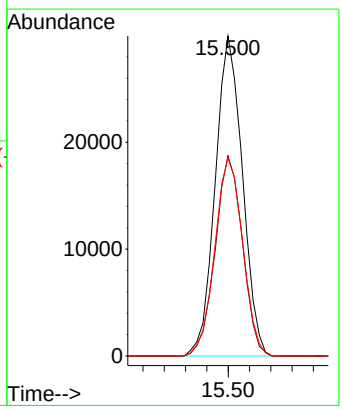
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

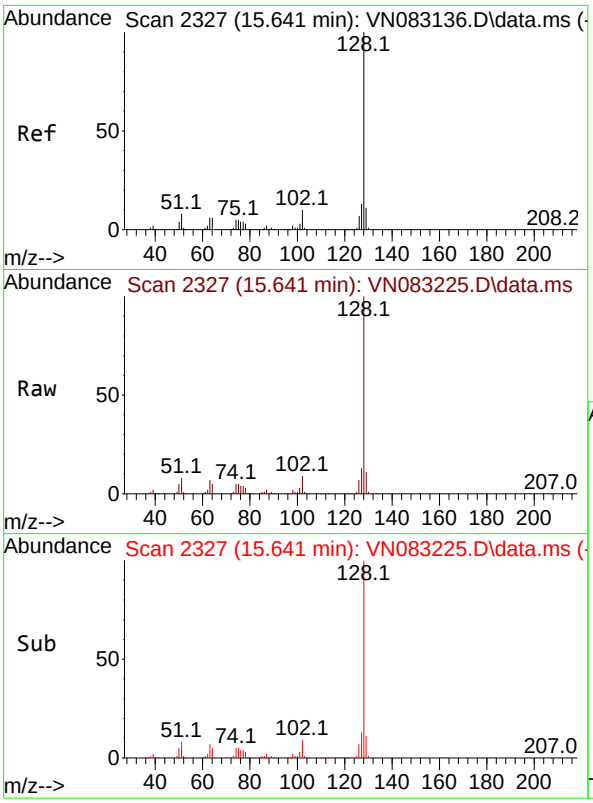


#94
Hexachlorobutadiene
Concen: 49.009 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion:225 Resp: 52994

Ion	Ratio	Lower	Upper
225	100		
223	62.6	31.9	95.7
227	63.5	32.5	97.5

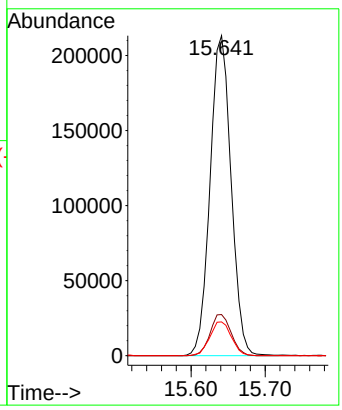




#95
Naphthalene
Concen: 48.783 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion:128 Resp: 42014

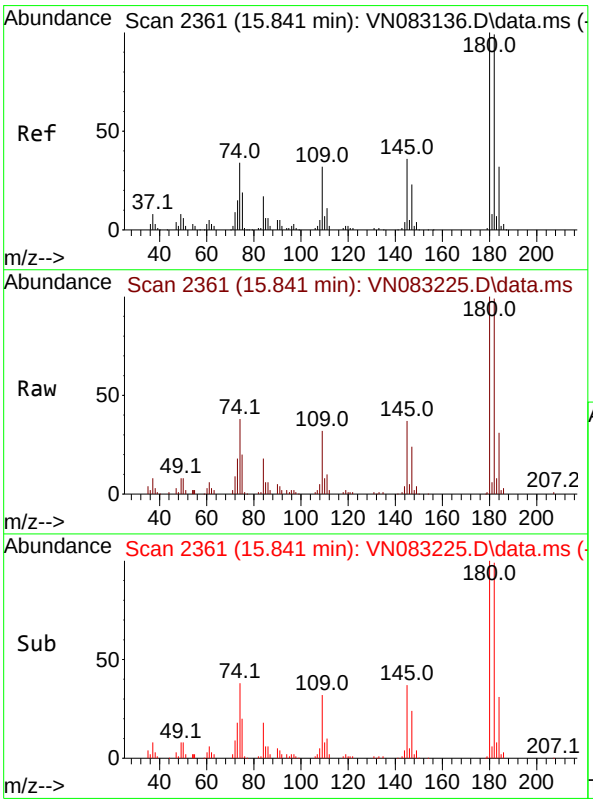
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.6	16.0
129	10.9	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

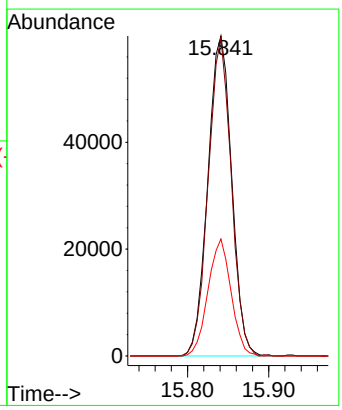
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024



#96
1,2,3-Trichlorobenzene
Concen: 50.813 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.000 min
Lab File: VN083225.D
Acq: 12 Aug 2024 09:48

Tgt Ion:180 Resp: 122246

Ion	Ratio	Lower	Upper
180	100		
182	96.0	48.9	146.8
145	35.3	16.8	50.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081224\
Data File : VN083225.D
Acq On : 12 Aug 2024 09:48
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 13 04:10:33 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	88	0.00
2	T	Dichlorodifluoromethane	0.567	0.591	-4.2	91	0.00
3	P	Chloromethane	0.581	0.583	-0.3	86	0.00
4	C	Vinyl Chloride	0.592	0.608	-2.7#	89	0.00
5	T	Bromomethane	0.368	0.385	-4.6	95	0.00
6	T	Chloroethane	0.371	0.384	-3.5	94	0.00
7	T	Trichlorofluoromethane	0.979	1.055	-7.8	93	0.00
8	T	Diethyl Ether	0.364	0.365	-0.3	87	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.539	0.582	-8.0	93	0.00
10	T	Methyl Iodide	0.710	0.721	-1.5	85	0.00
11	T	Tert butyl alcohol	0.148	0.142	4.1	85	0.00
12	CM	1,1-Dichloroethene	0.554	0.542	2.2#	87	0.00
13	T	Acrolein	0.096	0.098	-2.1	84	0.00
14	T	Allyl chloride	1.047	0.922	11.9	87	0.00
15	T	Acrylonitrile	0.304	0.292	3.9	84	0.00
16	T	Acetone	0.278	0.307	-10.4	94	0.00
17	T	Carbon Disulfide	1.622	1.491	8.1	84	0.00
18	T	Methyl Acetate	0.830	0.823	0.8	93	0.00
19	T	Methyl tert-butyl Ether	2.001	2.059	-2.9	89	0.00
20	T	Methylene Chloride	0.641	0.615	4.1	90	0.00
21	T	trans-1,2-Dichloroethene	0.573	0.569	0.7	87	-0.01
22	T	Diisopropyl ether	1.969	2.053	-4.3	90	0.00
23	T	Vinyl Acetate	2.018	2.102	-4.2	88	0.00
24	P	1,1-Dichloroethane	1.073	1.130	-5.3	91	0.00
25	T	2-Butanone	0.428	0.411	4.0	85	0.00
26	T	2,2-Dichloropropane	0.997	1.114	-11.7	96	0.00
27	T	cis-1,2-Dichloroethene	0.691	0.707	-2.3	90	0.00
28	T	Bromochloromethane	0.439	0.455	-3.6	91	0.00
29	T	Tetrahydrofuran	0.276	0.261	5.4	82	0.00
30	C	Chloroform	1.115	1.206	-8.2#	93	0.00
31	T	Cyclohexane	1.055	0.991	6.1	88	0.00
32	T	1,1,1-Trichloroethane	1.055	1.119	-6.1	91	0.00
33	S	1,2-Dichloroethane-d4	0.712	0.796	-11.8	94	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	87	0.00
35	S	Dibromofluoromethane	0.312	0.343	-9.9	90	0.00
36	T	1,1-Dichloropropene	0.472	0.496	-5.1	91	0.00
37	T	Ethyl Acetate	0.529	0.496	6.2	87	0.00
38	T	Carbon Tetrachloride	0.532	0.586	-10.2	94	0.00
39	T	Methylcyclohexane	0.580	0.609	-5.0	89	0.00
40	TM	Benzene	1.406	1.496	-6.4	90	0.00
41	T	Methacrylonitrile	0.301	0.290	3.7	89	0.00
42	TM	1,2-Dichloroethane	0.512	0.557	-8.8	94	0.00
43	T	Isopropyl Acetate	1.211	0.926	23.5	88	0.00
44	TM	Trichloroethene	0.335	0.356	-6.3	90	0.00
45	C	1,2-Dichloropropane	0.334	0.360	-7.8#	91	0.00
46	T	Dibromomethane	0.239	0.260	-8.8	91	0.00
47	T	Bromodichloromethane	0.537	0.580	-8.0	94	0.00
48	T	Methyl methacrylate	0.437	0.432	1.1	89	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081224\
Data File : VN083225.D
Acq On : 12 Aug 2024 09:48
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 13 04:10:33 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	76	0.00
50	S	Toluene-d8	1.164	1.296	-11.3	90	0.00
51	T	4-Methyl-2-Pentanone	0.500	0.507	-1.4	86	0.00
52	CM	Toluene	0.889	0.963	-8.3#	91	0.00
53	T	t-1,3-Dichloropropene	0.551	0.609	-10.5	89	0.00
54	T	cis-1,3-Dichloropropene	0.586	0.636	-8.5	92	0.00
55	T	1,1,2-Trichloroethane	0.318	0.347	-9.1	91	0.00
56	T	Ethyl methacrylate	0.600	0.625	-4.2	88	0.00
57	T	1,3-Dichloropropane	0.568	0.614	-8.1	91	0.00
58	T	2-Chloroethyl Vinyl ether	0.254	0.263	-3.5	88	0.00
59	T	2-Hexanone	0.387	0.389	-0.5	86	0.00
60	T	Dibromochloromethane	0.385	0.425	-10.4	90	0.00
61	T	1,2-Dibromoethane	0.335	0.356	-6.3	90	0.00
62	S	4-Bromofluorobenzene	0.454	0.507	-11.7	90	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	88	0.00
64	T	Tetrachloroethene	0.331	0.353	-6.6	91	0.00
65	PM	Chlorobenzene	1.105	1.171	-6.0	90	0.00
66	T	1,1,1,2-Tetrachloroethane	0.390	0.419	-7.4	92	0.00
67	C	Ethyl Benzene	2.027	2.160	-6.6#	92	0.00
68	T	m/p-Xylenes	0.759	0.814	-7.2	91	0.00
69	T	o-Xylene	0.749	0.784	-4.7	89	0.00
70	T	Styrene	1.258	1.359	-8.0	90	0.00
71	P	Bromoform	0.295	0.318	-7.8	88	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	89	0.00
73	T	Isopropylbenzene	4.182	4.339	-3.8	91	0.00
74	T	N-amyl acetate	2.046	1.903	7.0	85	0.00
75	P	1,1,2,2-Tetrachloroethane	1.183	1.154	2.5	88	0.00
76	T	1,2,3-Trichloropropane	1.097	1.058	3.6	89	0.00
77	T	Bromobenzene	0.929	0.972	-4.6	91	0.00
78	T	n-propylbenzene	4.816	5.104	-6.0	92	0.00
79	T	2-Chlorotoluene	3.053	3.152	-3.2	92	0.00
80	T	1,3,5-Trimethylbenzene	3.501	3.678	-5.1	92	0.00
81	T	trans-1,4-Dichloro-2-butene	0.504	0.470	6.7	85	0.00
82	T	4-Chlorotoluene	3.062	3.203	-4.6	92	0.00
83	T	tert-Butylbenzene	3.101	3.202	-3.3	91	0.00
84	T	1,2,4-Trimethylbenzene	3.529	3.721	-5.4	91	0.00
85	T	sec-Butylbenzene	4.231	4.421	-4.5	90	0.00
86	T	p-Isopropyltoluene	3.493	3.742	-7.1	91	0.00
87	T	1,3-Dichlorobenzene	1.748	1.812	-3.7	91	0.00
88	T	1,4-Dichlorobenzene	1.762	1.825	-3.6	92	0.00
89	T	n-Butylbenzene	3.027	3.363	-11.1	94	0.00
90	T	Hexachloroethane	0.675	0.702	-4.0	91	0.00
91	T	1,2-Dichlorobenzene	1.692	1.726	-2.0	91	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.287	0.258	10.1	82	0.00
93	T	1,2,4-Trichlorobenzene	0.948	0.992	-4.6	90	0.00
94	T	Hexachlorobutadiene	0.421	0.413	1.9	90	0.00
95	T	Naphthalene	3.357	3.275	2.4	84	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081224\
Data File : VN083225.D
Acq On : 12 Aug 2024 09:48
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 13 04:10:33 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	0.953	-1.6	89	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081224\
Data File : VN083225.D
Acq On : 12 Aug 2024 09:48
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 13 04:10:33 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	88	0.00
2	T	Dichlorodifluoromethane	50.000	52.102	-4.2	91	0.00
3	P	Chloromethane	50.000	50.208	-0.4	86	0.00
4	C	Vinyl Chloride	50.000	51.324	-2.6#	89	0.00
5	T	Bromomethane	50.000	52.379	-4.8	95	0.00
6	T	Chloroethane	50.000	51.759	-3.5	94	0.00
7	T	Trichlorofluoromethane	50.000	53.897	-7.8	93	0.00
8	T	Diethyl Ether	50.000	50.087	-0.2	87	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	53.981	-8.0	93	0.00
10	T	Methyl Iodide	50.000	50.825	-1.7	85	0.00
11	T	Tert butyl alcohol	250.000	240.055	4.0	85	0.00
12	CM	1,1-Dichloroethene	50.000	48.898	2.2#	87	0.00
13	T	Acrolein	250.000	252.950	-1.2	84	0.00
14	T	Allyl chloride	50.000	44.007	12.0	87	0.00
15	T	Acrylonitrile	250.000	239.993	4.0	84	0.00
16	T	Acetone	250.000	275.268	-10.1	94	0.00
17	T	Carbon Disulfide	50.000	45.969	8.1	84	0.00
18	T	Methyl Acetate	50.000	49.583	0.8	93	0.00
19	T	Methyl tert-butyl Ether	50.000	51.465	-2.9	89	0.00
20	T	Methylene Chloride	50.000	47.976	4.0	90	0.00
21	T	trans-1,2-Dichloroethene	50.000	49.699	0.6	87	-0.01
22	T	Diisopropyl ether	50.000	52.134	-4.3	90	0.00
23	T	Vinyl Acetate	250.000	260.362	-4.1	88	0.00
24	P	1,1-Dichloroethane	50.000	52.633	-5.3	91	0.00
25	T	2-Butanone	250.000	240.537	3.8	85	0.00
26	T	2,2-Dichloropropane	50.000	55.911	-11.8	96	0.00
27	T	cis-1,2-Dichloroethene	50.000	51.108	-2.2	90	0.00
28	T	Bromochloromethane	50.000	51.908	-3.8	91	0.00
29	T	Tetrahydrofuran	250.000	236.354	5.5	82	0.00
30	C	Chloroform	50.000	54.100	-8.2#	93	0.00
31	T	Cyclohexane	50.000	46.981	6.0	88	0.00
32	T	1,1,1-Trichloroethane	50.000	53.003	-6.0	91	0.00
33	S	1,2-Dichloroethane-d4	50.000	55.922	-11.8	94	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	87	0.00
35	S	Dibromofluoromethane	50.000	54.912	-9.8	90	0.00
36	T	1,1-Dichloropropene	50.000	52.510	-5.0	91	0.00
37	T	Ethyl Acetate	50.000	46.932	6.1	87	0.00
38	T	Carbon Tetrachloride	50.000	55.128	-10.3	94	0.00
39	T	Methylcyclohexane	50.000	52.473	-4.9	89	0.00
40	TM	Benzene	50.000	53.193	-6.4	90	0.00
41	T	Methacrylonitrile	50.000	48.217	3.6	89	0.00
42	TM	1,2-Dichloroethane	50.000	54.347	-8.7	94	0.00
43	T	Isopropyl Acetate	50.000	50.529	-1.1	88	0.00
44	TM	Trichloroethene	50.000	53.104	-6.2	90	0.00
45	C	1,2-Dichloropropane	50.000	53.957	-7.9#	91	0.00
46	T	Dibromomethane	50.000	54.334	-8.7	91	0.00
47	T	Bromodichloromethane	50.000	54.085	-8.2	94	0.00
48	T	Methyl methacrylate	50.000	49.438	1.1	89	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081224\
Data File : VN083225.D
Acq On : 12 Aug 2024 09:48
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 13 04:10:33 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	898.633	10.1	76	0.00
50	S	Toluene-d8	50.000	55.663	-11.3	90	0.00
51	T	4-Methyl-2-Pentanone	250.000	253.325	-1.3	86	0.00
52	CM	Toluene	50.000	54.202	-8.4#	91	0.00
53	T	t-1,3-Dichloropropene	50.000	55.216	-10.4	89	0.00
54	T	cis-1,3-Dichloropropene	50.000	54.265	-8.5	92	0.00
55	T	1,1,2-Trichloroethane	50.000	54.516	-9.0	91	0.00
56	T	Ethyl methacrylate	50.000	52.076	-4.2	88	0.00
57	T	1,3-Dichloropropane	50.000	54.111	-8.2	91	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	259.113	-3.6	88	0.00
59	T	2-Hexanone	250.000	251.771	-0.7	86	0.00
60	T	Dibromochloromethane	50.000	55.151	-10.3	90	0.00
61	T	1,2-Dibromoethane	50.000	53.196	-6.4	90	0.00
62	S	4-Bromofluorobenzene	50.000	55.812	-11.6	90	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	88	0.00
64	T	Tetrachloroethene	50.000	53.298	-6.6	91	0.00
65	PM	Chlorobenzene	50.000	52.987	-6.0	90	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	53.701	-7.4	92	0.00
67	C	Ethyl Benzene	50.000	53.269	-6.5#	92	0.00
68	T	m/p-Xylenes	100.000	107.195	-7.2	91	0.00
69	T	o-Xylene	50.000	52.315	-4.6	89	0.00
70	T	Styrene	50.000	54.007	-8.0	90	0.00
71	P	Bromoform	50.000	53.942	-7.9	88	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	89	0.00
73	T	Isopropylbenzene	50.000	51.874	-3.7	91	0.00
74	T	N-amyl acetate	50.000	46.518	7.0	85	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	48.762	2.5	88	0.00
76	T	1,2,3-Trichloropropane	50.000	48.197	3.6	89	0.00
77	T	Bromobenzene	50.000	52.326	-4.7	91	0.00
78	T	n-propylbenzene	50.000	52.997	-6.0	92	0.00
79	T	2-Chlorotoluene	50.000	51.627	-3.3	92	0.00
80	T	1,3,5-Trimethylbenzene	50.000	52.517	-5.0	92	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	46.546	6.9	85	0.00
82	T	4-Chlorotoluene	50.000	52.295	-4.6	92	0.00
83	T	tert-Butylbenzene	50.000	51.631	-3.3	91	0.00
84	T	1,2,4-Trimethylbenzene	50.000	52.727	-5.5	91	0.00
85	T	sec-Butylbenzene	50.000	52.249	-4.5	90	0.00
86	T	p-Isopropyltoluene	50.000	53.556	-7.1	91	0.00
87	T	1,3-Dichlorobenzene	50.000	51.823	-3.6	91	0.00
88	T	1,4-Dichlorobenzene	50.000	51.781	-3.6	92	0.00
89	T	n-Butylbenzene	50.000	55.556	-11.1	94	0.00
90	T	Hexachloroethane	50.000	51.985	-4.0	91	0.00
91	T	1,2-Dichlorobenzene	50.000	51.015	-2.0	91	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	45.011	10.0	82	0.00
93	T	1,2,4-Trichlorobenzene	50.000	52.346	-4.7	90	0.00
94	T	Hexachlorobutadiene	50.000	49.009	2.0	90	0.00
95	T	Naphthalene	50.000	48.783	2.4	84	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081224\
Data File : VN083225.D
Acq On : 12 Aug 2024 09:48
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 13 04:10:33 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	50.813	-1.6	89	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.: P3429 SAS No.: P3429 SDG No.: P3429

Instrument ID: MSVOA_N Calibration Date/Time: 08/13/2024 10:18

Lab File ID: VN083246.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	0.543		-4.23	20
Chloromethane	0.581	0.552	0.1	-4.99	20
Vinyl Chloride	0.592	0.583		-1.52	20
Bromomethane	0.368	0.364		-1.09	20
1,1,2-Trichlorotrifluoroethane	0.539	0.549		1.86	20
Acetone	0.278	0.290		4.32	20
Carbon Disulfide	1.622	1.379		-14.98	20
Methyl tert-butyl Ether	2.001	2.005		0.2	20
Methylene Chloride	0.641	0.597		-6.86	20
trans-1,2-Dichloroethene	0.573	0.548		-4.36	20
Cyclohexane	1.055	0.949		-10.05	20
2-Butanone	0.428	0.402		-6.07	20
Carbon Tetrachloride	0.532	0.541		1.69	20
cis-1,2-Dichloroethene	0.691	0.688		-0.43	20
Chloroform	1.115	1.176		5.47	20
1,1,1-Trichloroethane	1.055	1.096		3.89	20
Methylcyclohexane	0.580	0.556		-4.14	20
Benzene	1.406	1.424		1.28	20
1,2-Dichloroethane	0.512	0.536		4.69	20
Trichloroethene	0.335	0.337		0.6	20
Bromodichloromethane	0.537	0.549		2.23	20
Toluene	0.889	0.901		1.35	20
1,1,2-Trichloroethane	0.318	0.334		5.03	20
Dibromochloromethane	0.385	0.413		7.27	20
Tetrachloroethene	0.331	0.327		-1.21	20
Chlorobenzene	1.105	1.113	0.3	0.72	20
Ethyl Benzene	2.027	2.048		1.04	20
m/p-Xylenes	0.759	0.771		1.58	20
o-Xylene	0.749	0.758		1.2	20
Isopropylbenzene	4.182	4.089		-2.22	20
1,4-Dichlorobenzene	1.762	1.696		-3.75	20
1,2-Dichlorobenzene	1.692	1.632		-3.55	20
1,2-Dichloroethane-d4	0.712	0.742		4.21	20
Dibromofluoromethane	0.312	0.317		1.6	20
Toluene-d8	1.164	1.180		1.38	20
4-Bromofluorobenzene	0.454	0.461		1.54	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083246.D
Acq On : 13 Aug 2024 10:18
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 14 01:37:45 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 :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	8.224	168	178090	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	308255	50.000 ug/l	0.00
63) Chlorobenzene-d5	11.865	117	271780	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	132143	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	8.576	65	132203	52.153 ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.300%		
35) Dibromofluoromethane	8.165	113	97621	50.737 ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.480%		
50) Toluene-d8	10.565	98	363620	50.663 ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.320%		
62) 4-Bromofluorobenzene	12.847	95	142178	50.813 ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 101.620%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.124	85	96664	47.864 ug/l	99
3) Chloromethane	2.359	50	98368	47.575 ug/l	99
4) Vinyl Chloride	2.518	62	103758	49.180 ug/l	98
5) Bromomethane	2.947	94	64825	49.518 ug/l	99
6) Chloroethane	3.112	64	68510	51.904 ug/l	99
7) Trichlorofluoromethane	3.494	101	181998	52.219 ug/l	98
8) Diethyl Ether	3.959	74	63431	48.909 ug/l	85
9) 1,1,2-Trichlorotrifluo...	4.371	101	97771	50.881 ug/l	99
10) Methyl Iodide	4.589	142	124402	49.216 ug/l	94
11) Tert butyl alcohol	5.518	59	128834	244.559 ug/l	98
12) 1,1-Dichloroethene	4.347	96	94170	47.701 ug/l	84
13) Acrolein	4.177	56	81114	236.250 ug/l	99
14) Allyl chloride	5.018	41	157318	42.169 ug/l	93
15) Acrylonitrile	5.718	53	254823	235.198 ug/l	100
16) Acetone	4.424	43	258238	260.346 ug/l	99
17) Carbon Disulfide	4.712	76	245576	42.513 ug/l	100
18) Methyl Acetate	5.024	43	142874	48.345 ug/l	93
19) Methyl tert-butyl Ether	5.794	73	357068	50.110 ug/l	98
20) Methylene Chloride	5.271	84	106255	46.546 ug/l	87
21) trans-1,2-Dichloroethene	5.788	96	97617	47.842 ug/l	95
22) Diisopropyl ether	6.671	45	354751	50.588 ug/l	97
23) Vinyl Acetate	6.600	43	1823271m	253.661 ug/l	
24) 1,1-Dichloroethane	6.571	63	197517	51.674 ug/l	99
25) 2-Butanone	7.482	43	357852	234.960 ug/l	92
26) 2,2-Dichloropropane	7.488	77	188000	52.961 ug/l	98
27) cis-1,2-Dichloroethene	7.482	96	122563	49.779 ug/l	94
28) Bromochloromethane	7.812	49	78972	50.555 ug/l	87
29) Tetrahydrofuran	7.835	42	227980	231.559 ug/l #	87
30) Chloroform	7.965	83	209389	52.728 ug/l	100
31) Cyclohexane	8.253	56	168933	44.970 ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	195254	51.945 ug/l	96
36) 1,1-Dichloropropene	8.371	75	144432	49.623 ug/l	99
37) Ethyl Acetate	7.559	43	151069	46.356 ug/l #	95
38) Carbon Tetrachloride	8.365	117	166807	50.883 ug/l	98
39) Methylcyclohexane	9.600	83	171487	47.969 ug/l	94
40) Benzene	8.606	78	438884	50.617 ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083246.D
Acq On : 13 Aug 2024 10:18
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 14 01:37:45 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 :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.777	41	85938	46.379 ug/l	96
42) 1,2-Dichloroethane	8.671	62	165275	52.326 ug/l	98
43) Isopropyl Acetate	8.688	43	272852	48.153 ug/l #	95
44) Trichloroethene	9.353	130	103946	50.366 ug/l	92
45) 1,2-Dichloropropane	9.618	63	106139	51.570 ug/l	98
46) Dibromomethane	9.712	93	77183	52.392 ug/l	99
47) Bromodichloromethane	9.888	83	169381	51.206 ug/l	99
48) Methyl methacrylate	9.676	41	127076	47.166 ug/l	92
49) 1,4-Dioxane	9.694	88	42495	874.255 ug/l	98
51) 4-Methyl-2-Pentanone	10.447	43	758114	246.005 ug/l	94
52) Toluene	10.629	92	277827	50.713 ug/l	99
53) t-1,3-Dichloropropene	10.835	75	178945	52.665 ug/l	98
54) cis-1,3-Dichloropropene	10.312	75	184717	51.111 ug/l	92
55) 1,1,2-Trichloroethane	11.018	97	102947	52.435 ug/l	96
56) Ethyl methacrylate	10.870	69	183747	49.645 ug/l	89
57) 1,3-Dichloropropane	11.165	76	184479	52.717 ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	405122	258.946 ug/l	95
59) 2-Hexanone	11.194	43	568842	238.595 ug/l	93
60) Dibromochloromethane	11.359	129	127283	53.622 ug/l	97
61) 1,2-Dibromoethane	11.470	107	105890	51.342 ug/l	99
64) Tetrachloroethene	11.106	164	89002	49.447 ug/l	96
65) Chlorobenzene	11.894	112	302624	50.387 ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	107111	50.567 ug/l	99
67) Ethyl Benzene	11.965	91	556470	50.506 ug/l	100
68) m/p-Xylenes	12.070	106	418879	101.492 ug/l	98
69) o-Xylene	12.400	106	206065	50.624 ug/l	99
70) Styrene	12.412	104	348418	50.963 ug/l	98
71) Bromoform	12.576	173	83212	51.856 ug/l #	98
73) Isopropylbenzene	12.694	105	540283	48.882 ug/l	99
74) N-amyl acetate	12.494	43	238687	44.149 ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.935	83	149722	47.894 ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	133276m	45.954 ug/l	
77) Bromobenzene	12.982	156	121587	49.521 ug/l	98
78) n-propylbenzene	13.035	91	630102	49.509 ug/l	100
79) 2-Chlorotoluene	13.123	91	391819	48.559 ug/l	97
80) 1,3,5-Trimethylbenzene	13.170	105	454104	49.074 ug/l	98
81) trans-1,4-Dichloro-2-b...	12.735	75	57698	43.275 ug/l	99
82) 4-Chlorotoluene	13.223	91	395134	48.820 ug/l	97
83) tert-Butylbenzene	13.435	119	395662	48.282 ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	457979	49.111 ug/l	99
85) sec-Butylbenzene	13.617	105	550323	49.216 ug/l	100
86) p-Isopropyltoluene	13.729	119	459639	49.784 ug/l	98
87) 1,3-Dichlorobenzene	13.735	146	221346	47.911 ug/l	98
88) 1,4-Dichlorobenzene	13.811	146	224098	48.114 ug/l	98
89) n-Butylbenzene	14.053	91	395753	49.469 ug/l	97
90) Hexachloroethane	14.335	117	86978	48.762 ug/l	93
91) 1,2-Dichlorobenzene	14.106	146	215635	48.233 ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	33331	43.939 ug/l	99
93) 1,2,4-Trichlorobenzene	15.394	180	121044	48.328 ug/l	99
94) Hexachlorobutadiene	15.500	225	48967	43.961 ug/l	97
95) Naphthalene	15.641	128	410232	46.239 ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	118663	47.881 ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083246.D
Acq On : 13 Aug 2024 10:18
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 14 01:37:45 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 :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

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

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

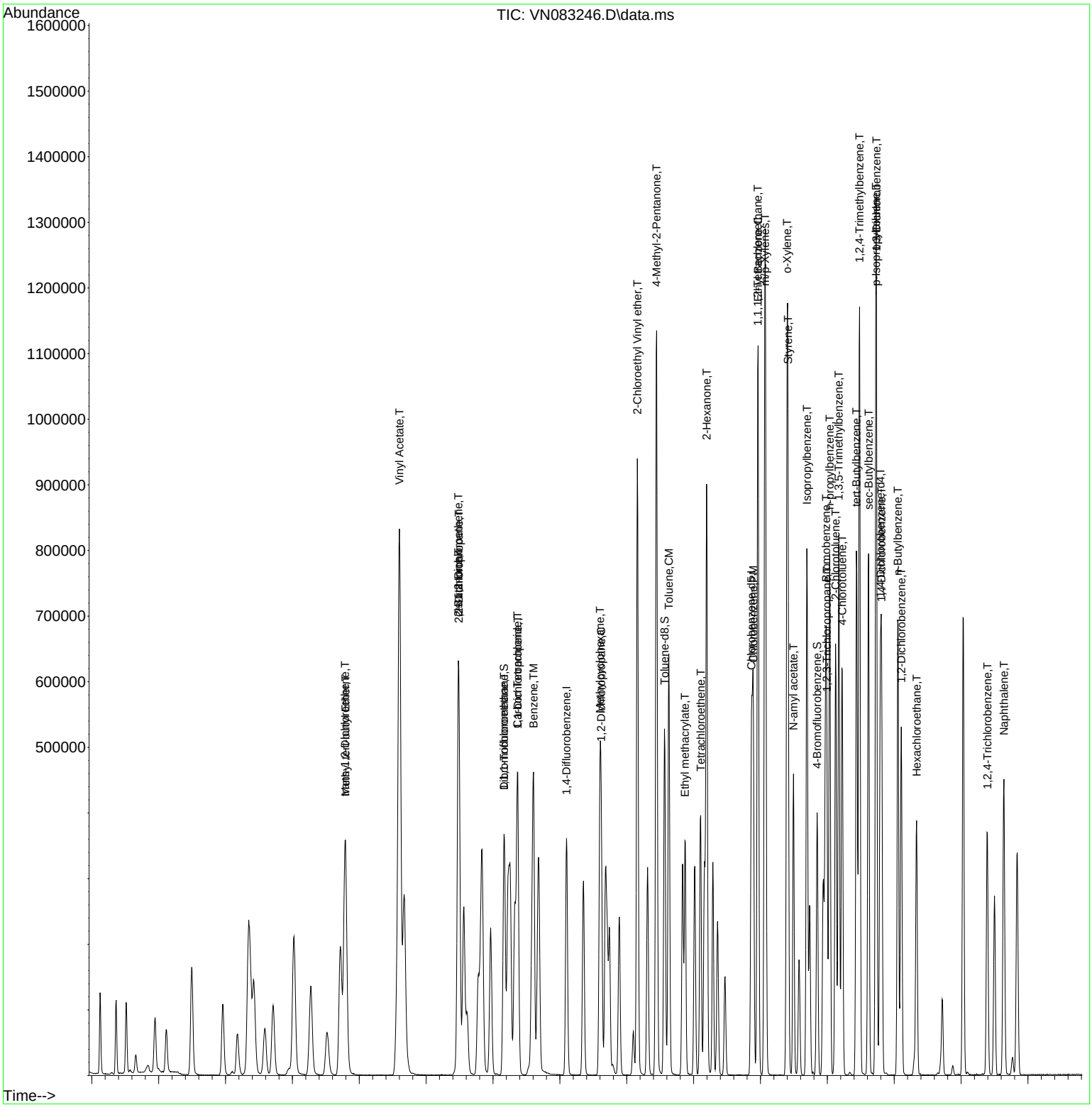
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083246.D
Acq On : 13 Aug 2024 10:18
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

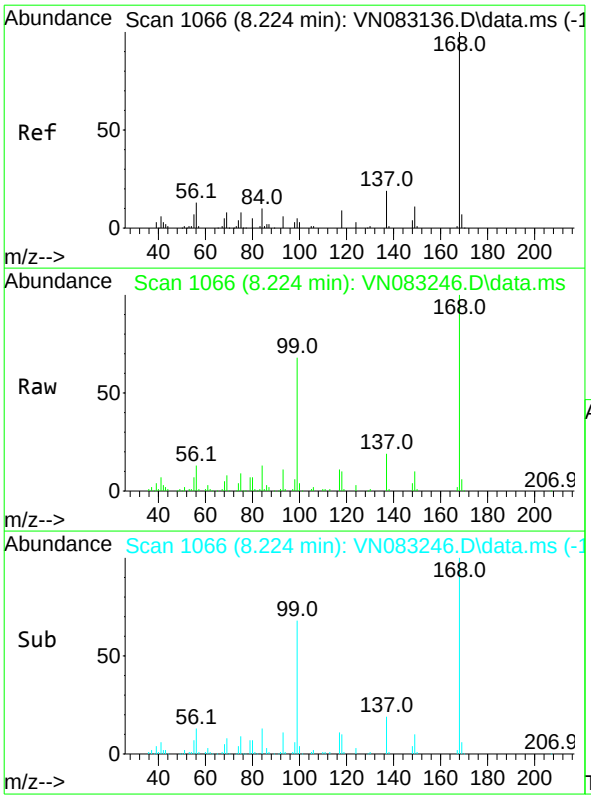
Quant Time: Aug 14 01:37:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

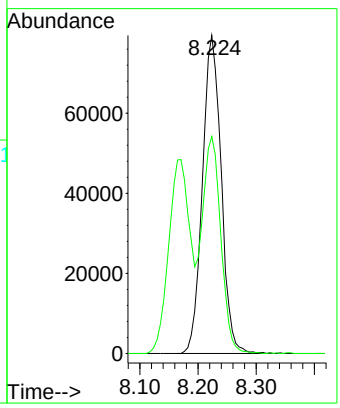




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion:168 Resp: 178090

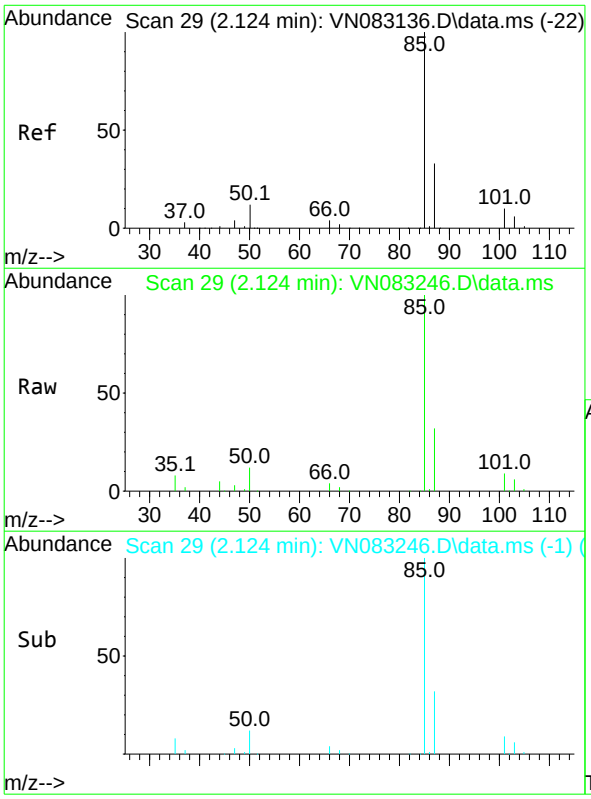
Ion	Ratio	Lower	Upper
168	100		
99	68.0	48.2	72.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

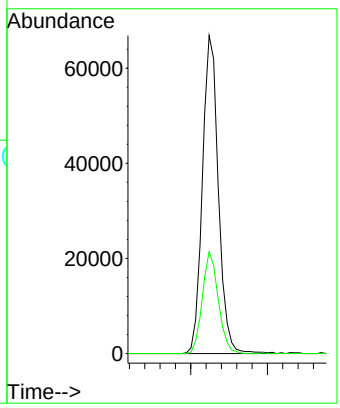
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

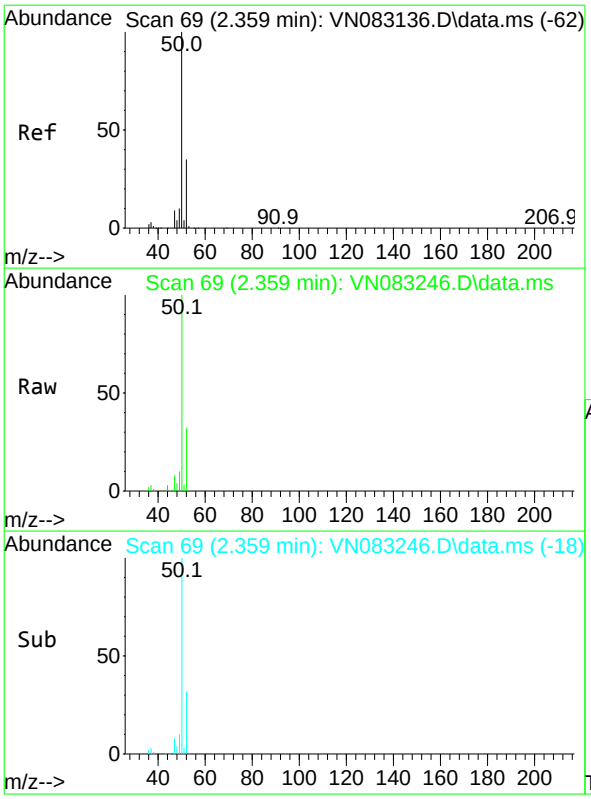


#2
Dichlorodifluoromethane
Concen: 47.864 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 85 Resp: 96664

Ion	Ratio	Lower	Upper
85	100		
87	32.0	15.7	47.0

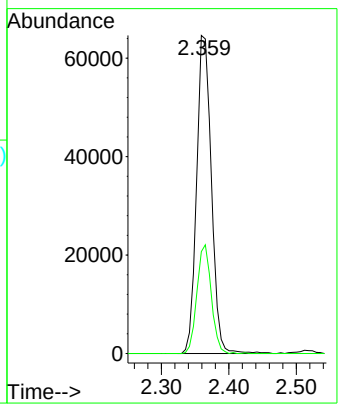




#3
Chloromethane
Concen: 47.575 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 50 Resp: 98368

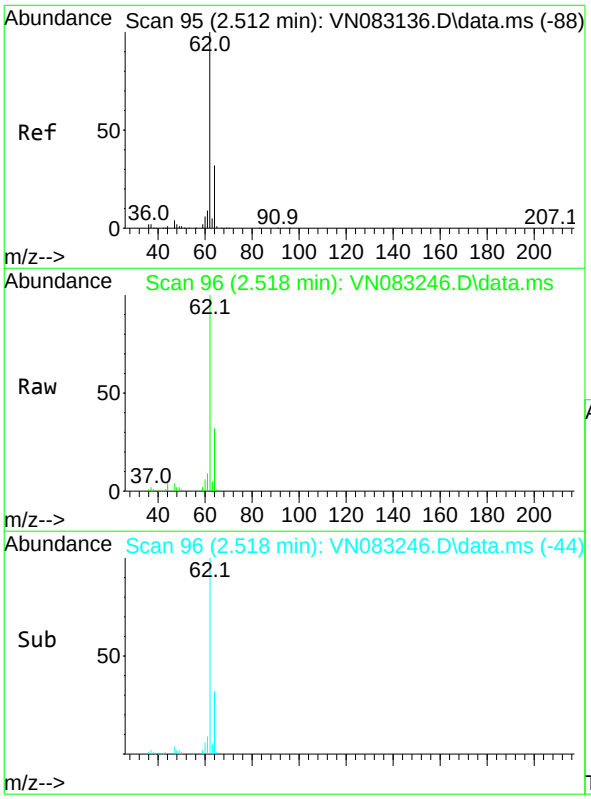
Ion	Ratio	Lower	Upper
50	100		
52	32.0	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

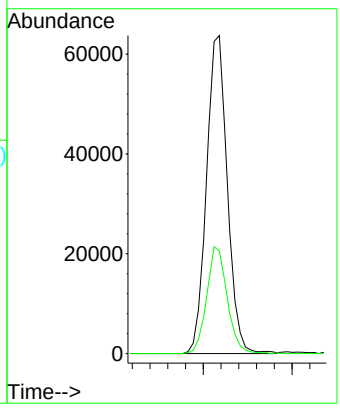
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

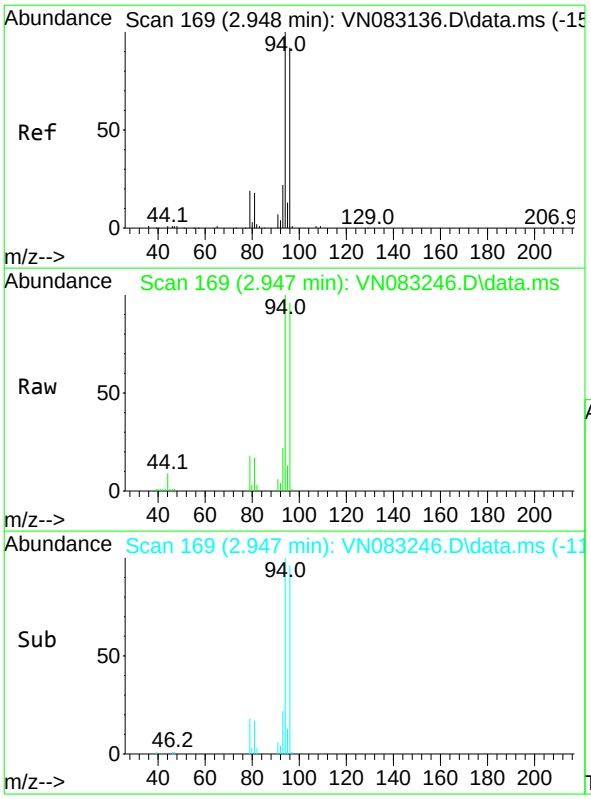


#4
Vinyl Chloride
Concen: 49.180 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 62 Resp: 103758

Ion	Ratio	Lower	Upper
62	100		
64	32.3	25.0	37.6

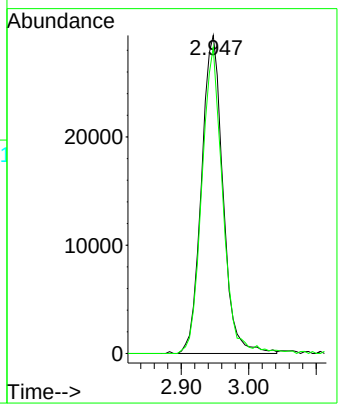




#5
Bromomethane
Concen: 49.518 ug/l
RT: 2.947 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 94 Resp: 64825

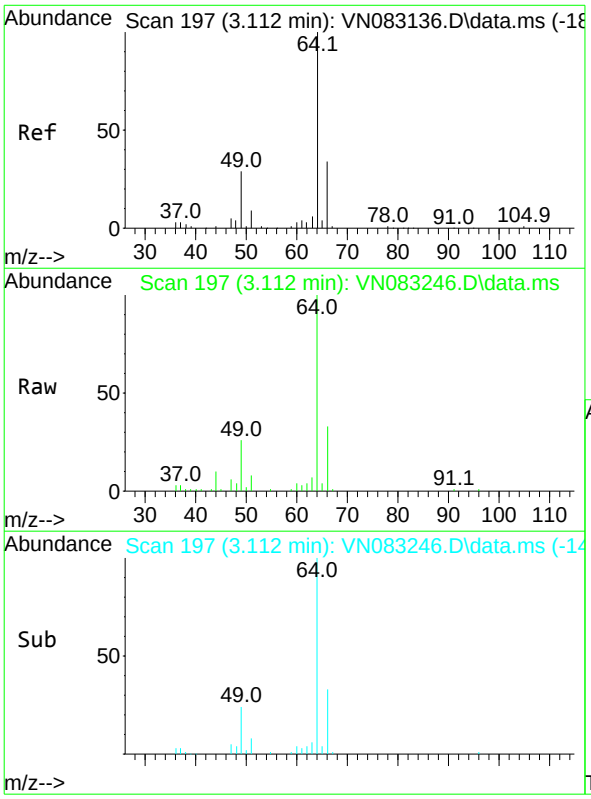
Ion	Ratio	Lower	Upper
94	100		
96	96.3	78.0	117.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

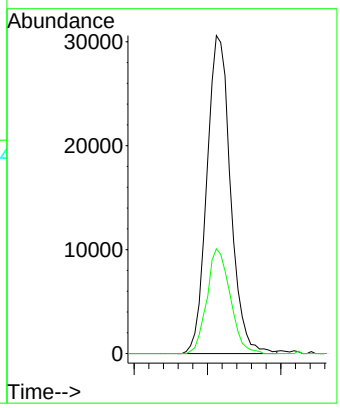
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

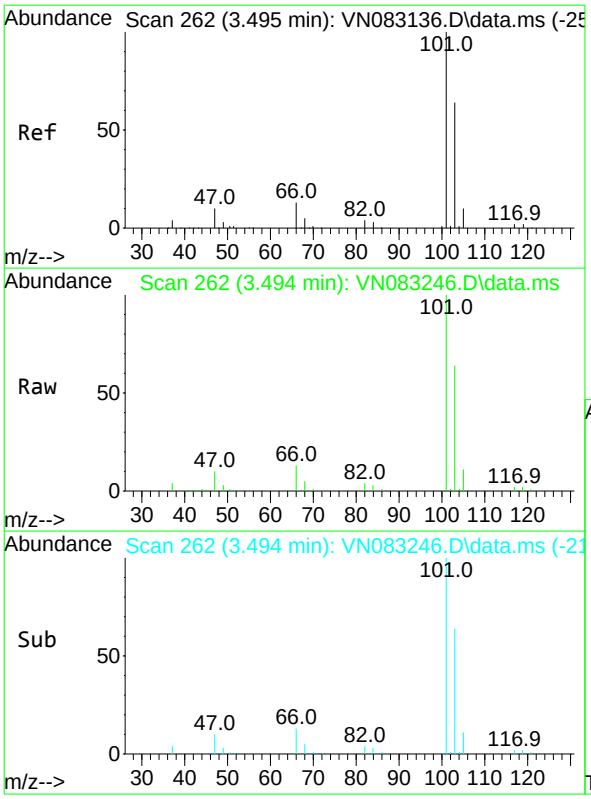


#6
Chloroethane
Concen: 51.904 ug/l
RT: 3.112 min Scan# 197
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 64 Resp: 68510

Ion	Ratio	Lower	Upper
64	100		
66	32.9	26.6	40.0

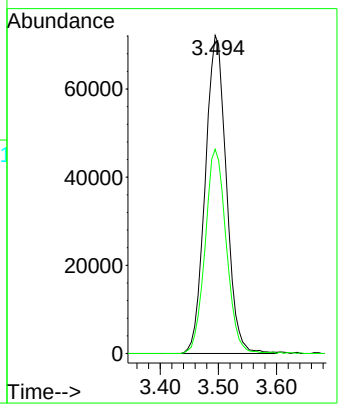




#7
Trichlorofluoromethane
Concen: 52.219 ug/l
RT: 3.494 min Scan# 26
Delta R.T. -0.001 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion:101 Resp: 181998

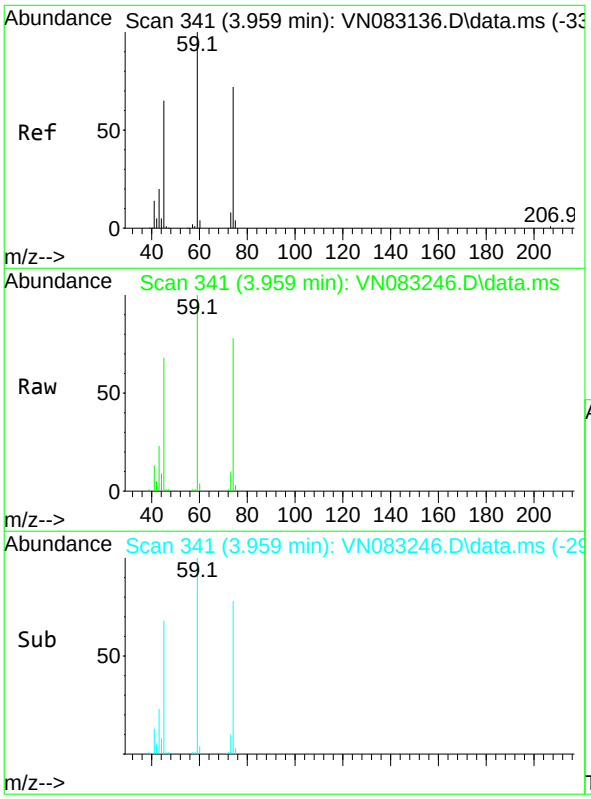
Ion	Ratio	Lower	Upper
101	100		
103	64.2	52.7	79.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

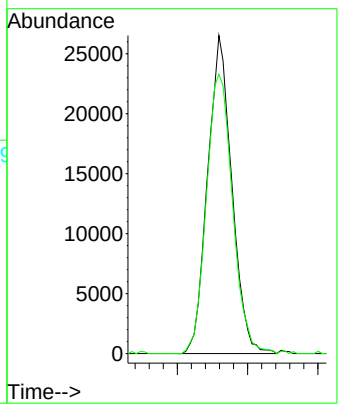
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

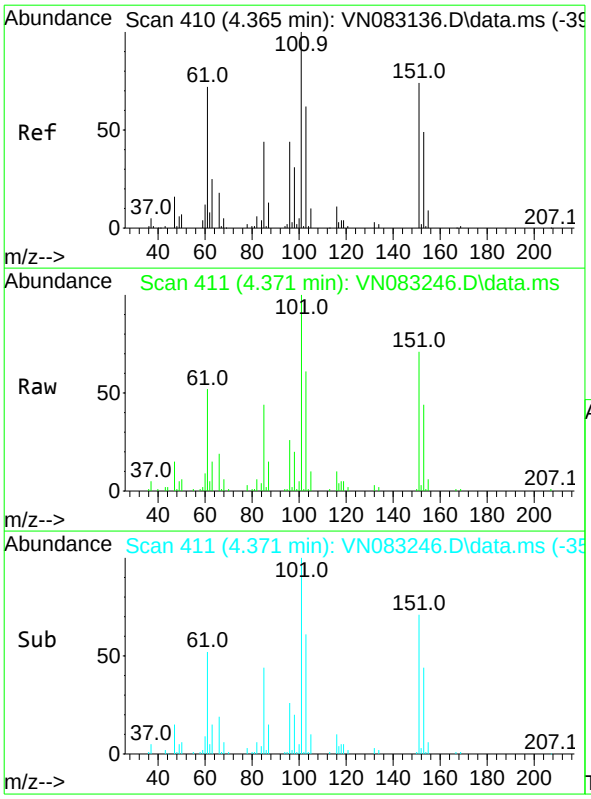


#8
Diethyl Ether
Concen: 48.909 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 74 Resp: 63431

Ion	Ratio	Lower	Upper
74	100		
45	95.0	55.5	166.3





#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.881 ug/l
RT: 4.371 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

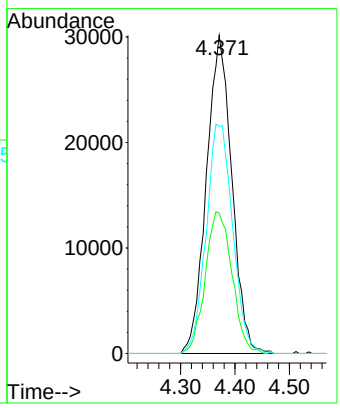
Tgt Ion:101 Resp: 97771

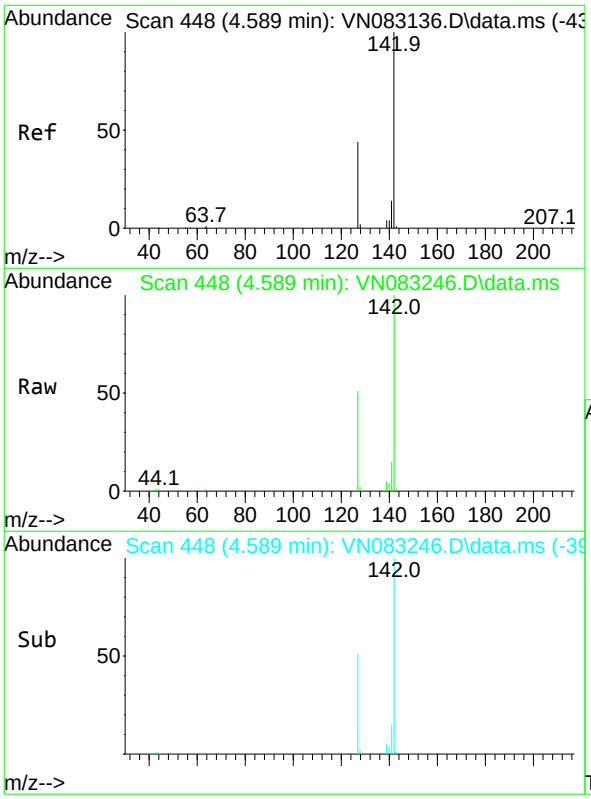
Ion	Ratio	Lower	Upper
101	100		
85	46.9	38.3	57.5
151	75.3	59.3	88.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

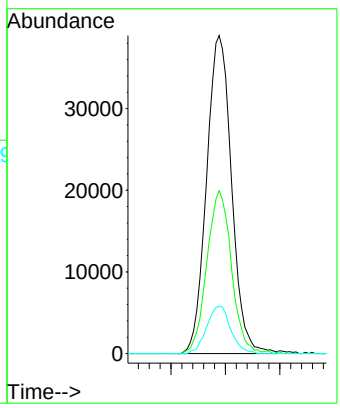


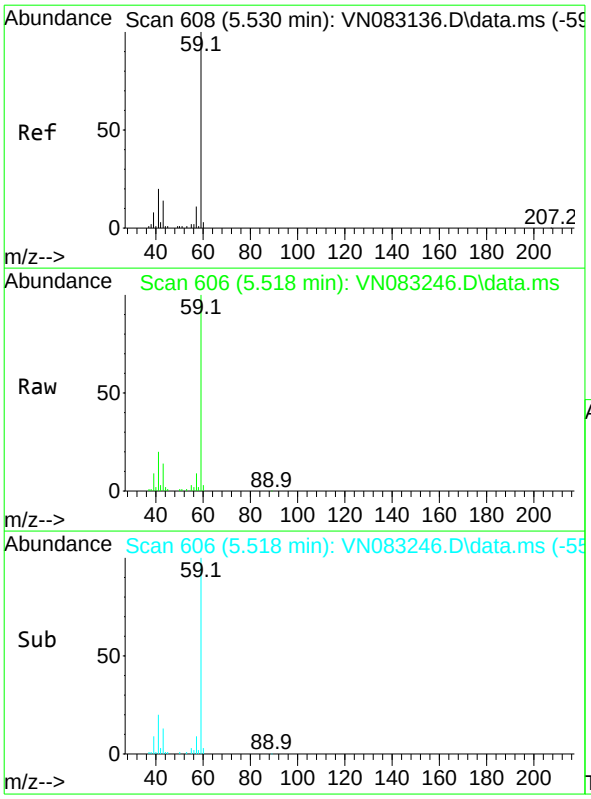


#10
Methyl Iodide
Concen: 49.216 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion:142 Resp: 124402

Ion	Ratio	Lower	Upper
142	100		
127	51.2	37.5	56.3
141	14.8	13.1	19.7

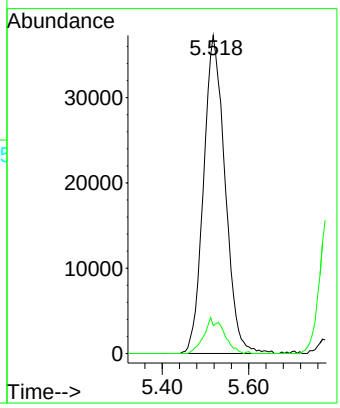




#11
Tert butyl alcohol
Concen: 244.559 ug/l
RT: 5.518 min Scan# 60
Delta R.T. -0.012 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 59 Resp: 128834

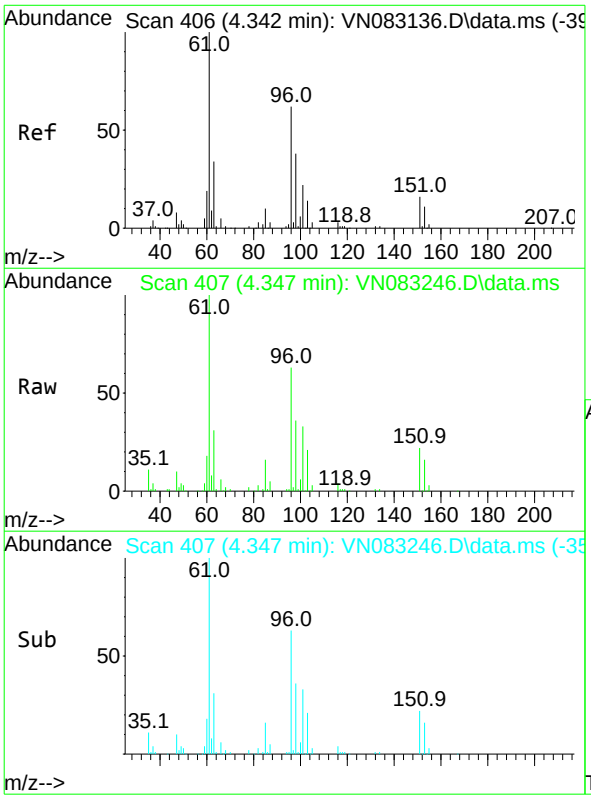
Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.9	13.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

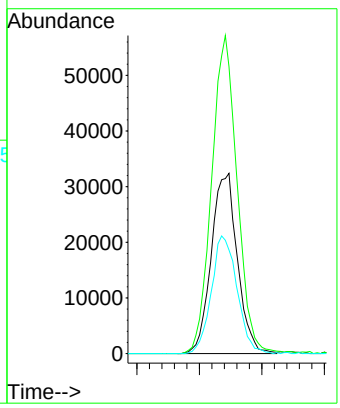
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

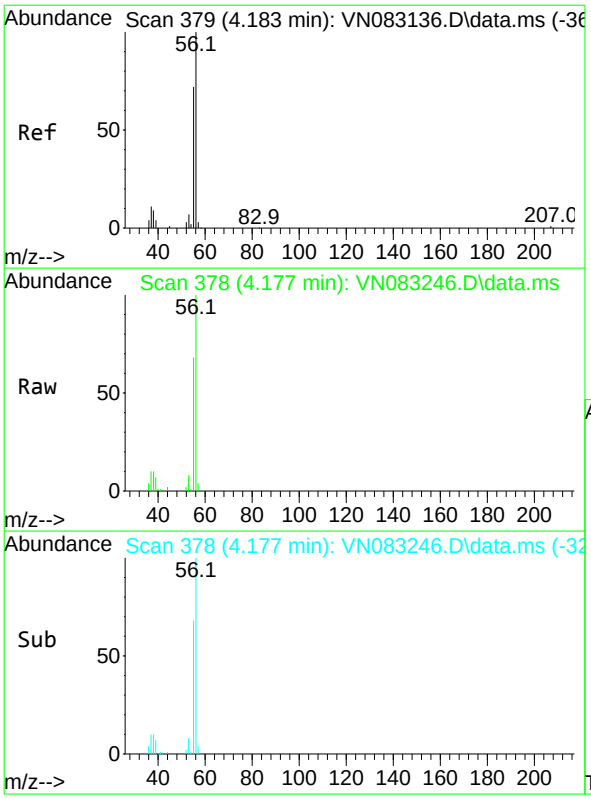


#12
1,1-Dichloroethene
Concen: 47.701 ug/l
RT: 4.347 min Scan# 407
Delta R.T. 0.006 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 96 Resp: 94170

Ion	Ratio	Lower	Upper
96	100		
61	159.2	149.7	224.5
98	57.4	50.1	75.1

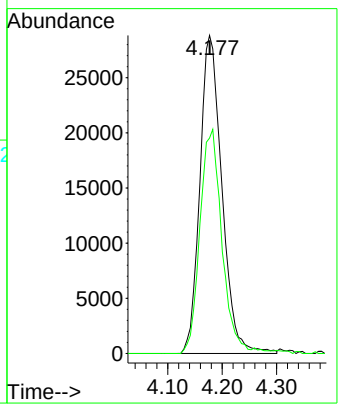




#13
Acrolein
Concen: 236.250 ug/l
RT: 4.177 min Scan# 37
Delta R.T. -0.006 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 56 Resp: 81114

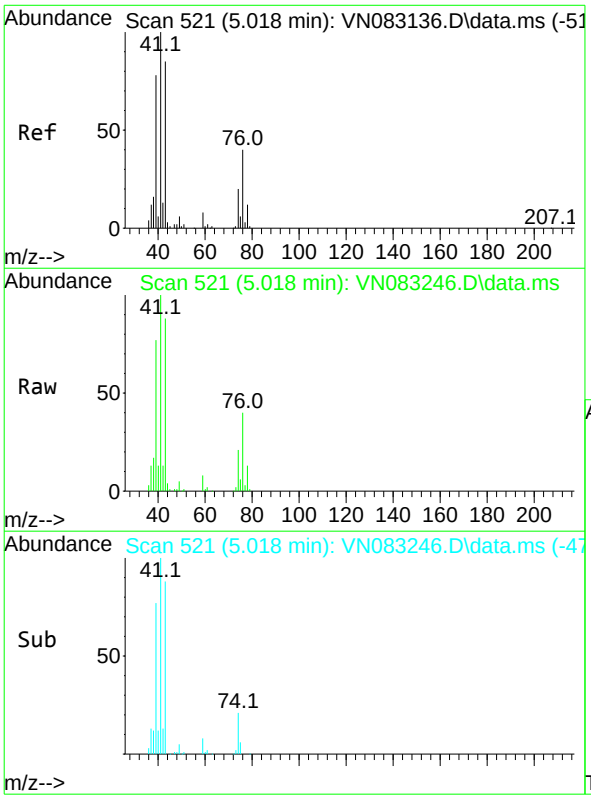
Ion	Ratio	Lower	Upper
56	100		
55	69.7	56.4	84.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

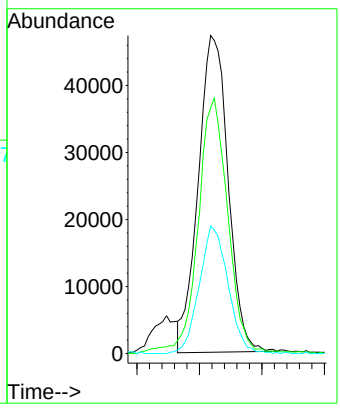
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

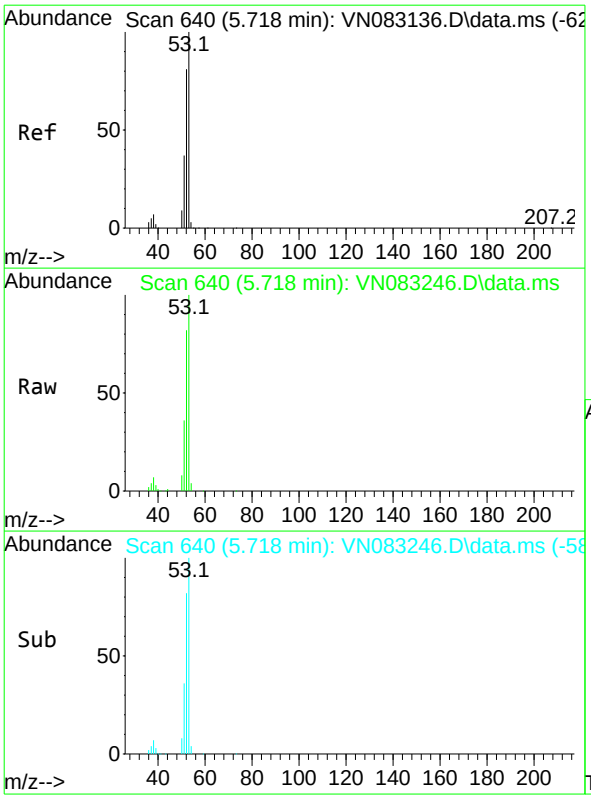


#14
Allyl chloride
Concen: 42.169 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 41 Resp: 157318

Ion	Ratio	Lower	Upper
41	100		
39	80.3	67.8	101.6
76	38.7	25.8	38.8

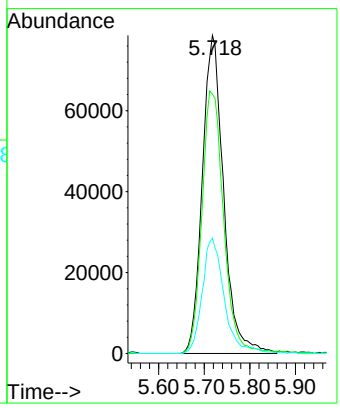




#15
Acrylonitrile
Concen: 235.198 ug/l
RT: 5.718 min Scan# 64
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 53 Resp: 254823

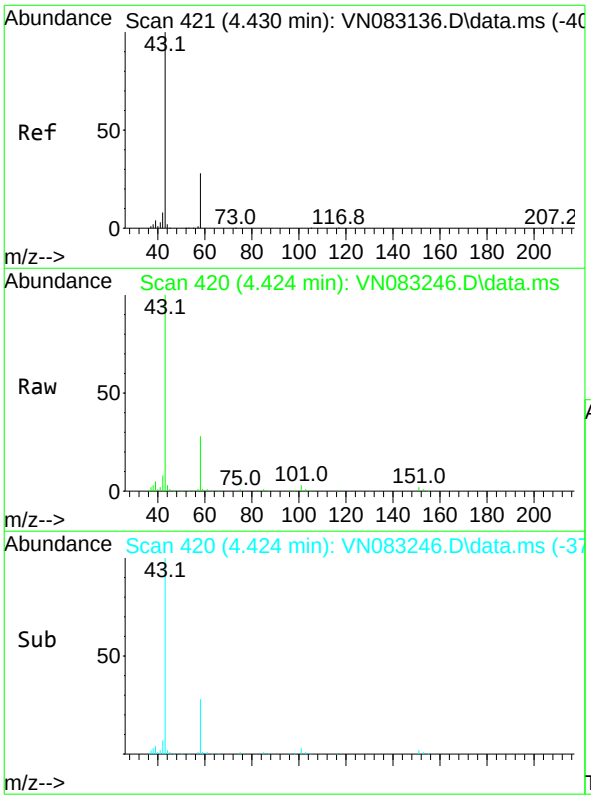
Ion	Ratio	Lower	Upper
53	100		
52	83.8	66.6	100.0
51	37.4	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

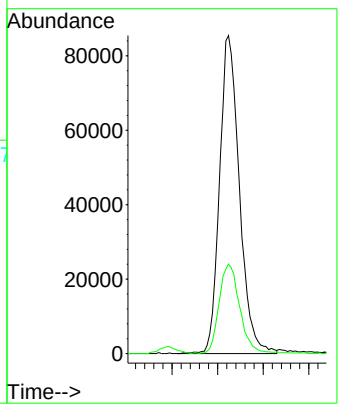
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

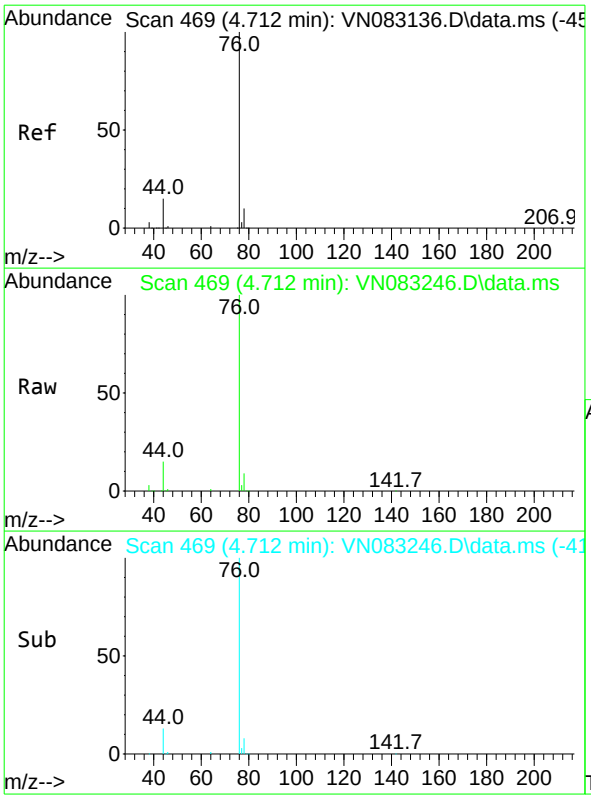


#16
Acetone
Concen: 260.346 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 43 Resp: 258238

Ion	Ratio	Lower	Upper
43	100		
58	27.7	21.8	32.6





#17
Carbon Disulfide
Concen: 42.513 ug/l
RT: 4.712 min Scan# 46
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

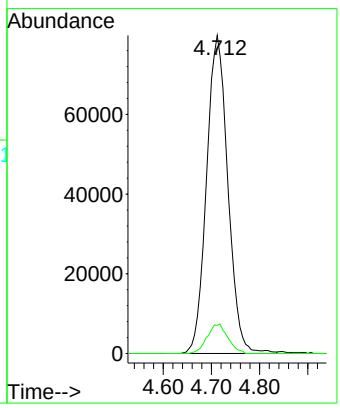
Tgt Ion: 76 Resp: 245576

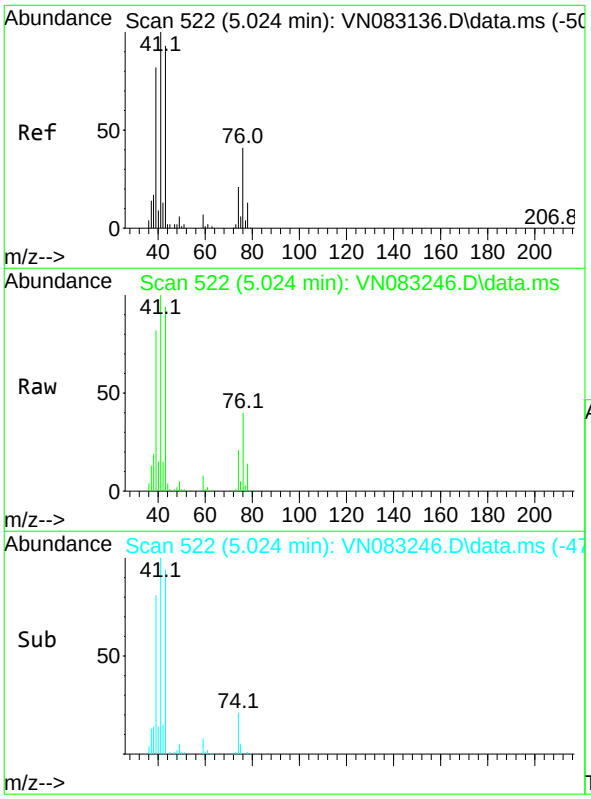
Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.2	10.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

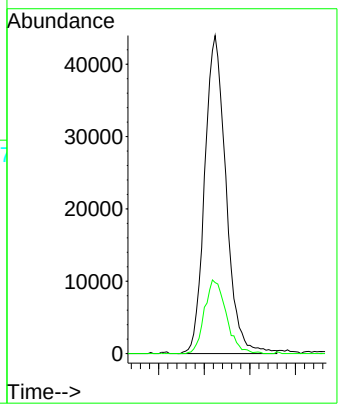


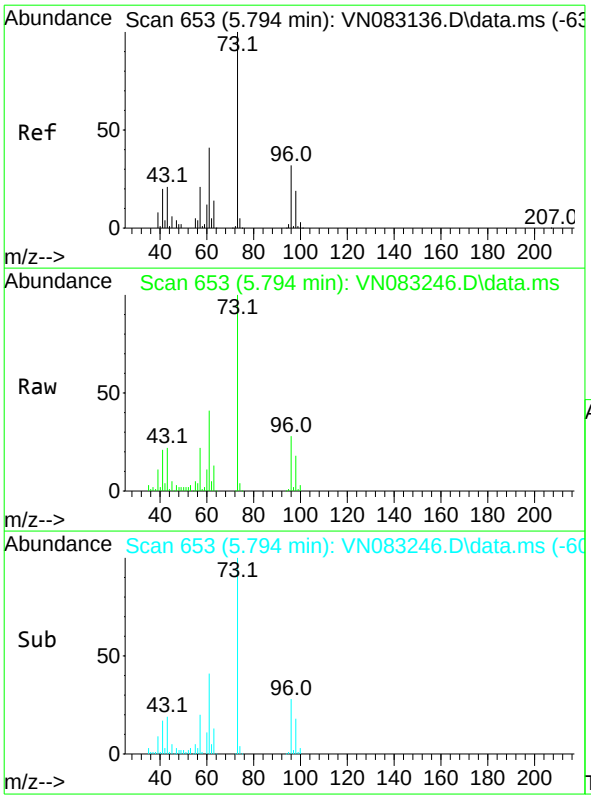


#18
Methyl Acetate
Concen: 48.345 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 43 Resp: 142874

Ion	Ratio	Lower	Upper
43	100		
74	23.7	16.3	24.5

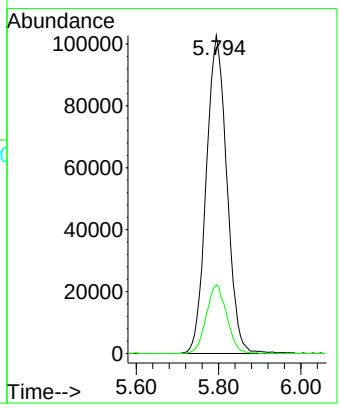




#19
Methyl tert-butyl Ether
Concen: 50.110 ug/l
RT: 5.794 min Scan# 65
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 73 Resp: 357068

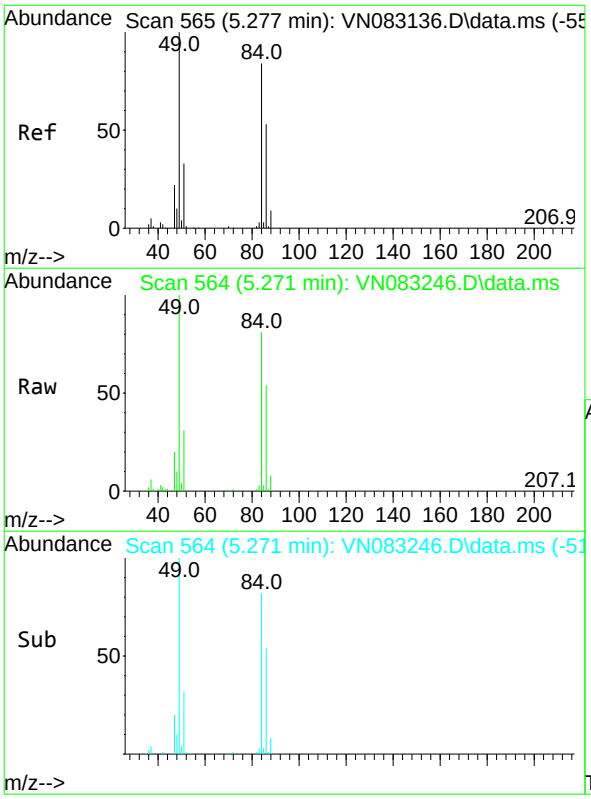
Ion	Ratio	Lower	Upper
73	100		
57	21.6	17.9	26.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

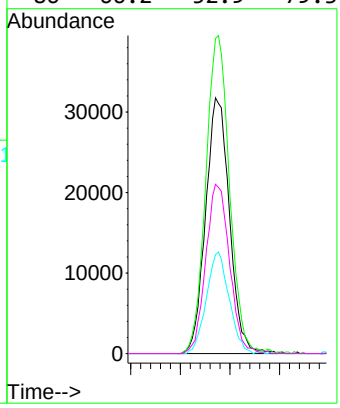
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

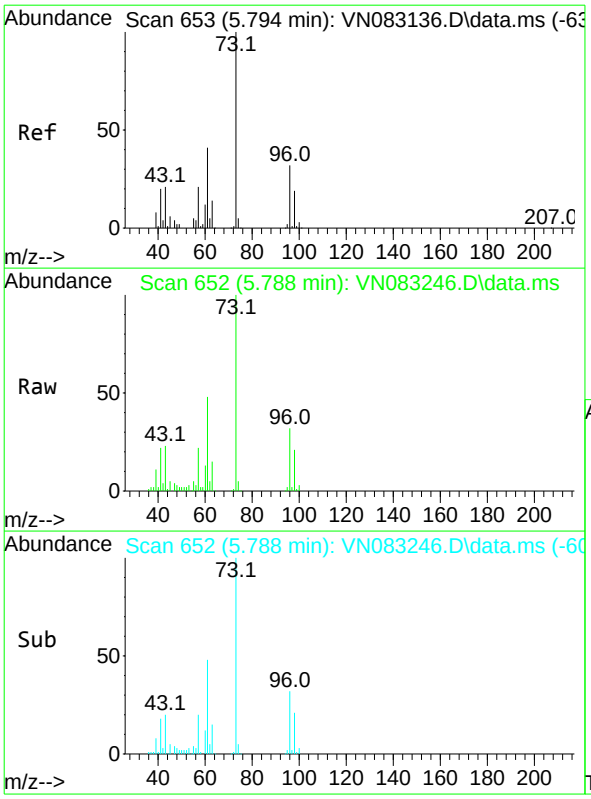


#20
Methylene Chloride
Concen: 46.546 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.006 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 84 Resp: 106255

Ion	Ratio	Lower	Upper
84	100		
49	123.2	119.6	179.4
51	38.7	34.8	52.2
86	66.2	52.9	79.3

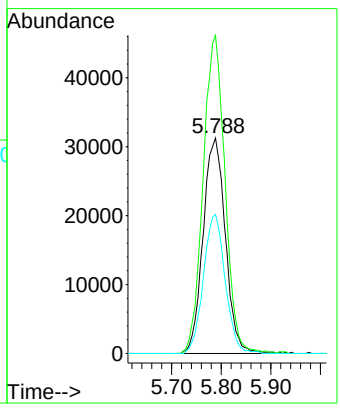




#21
trans-1,2-Dichloroethene
Concen: 47.842 ug/l
RT: 5.788 min Scan# 65
Delta R.T. -0.006 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 96 Resp: 97617

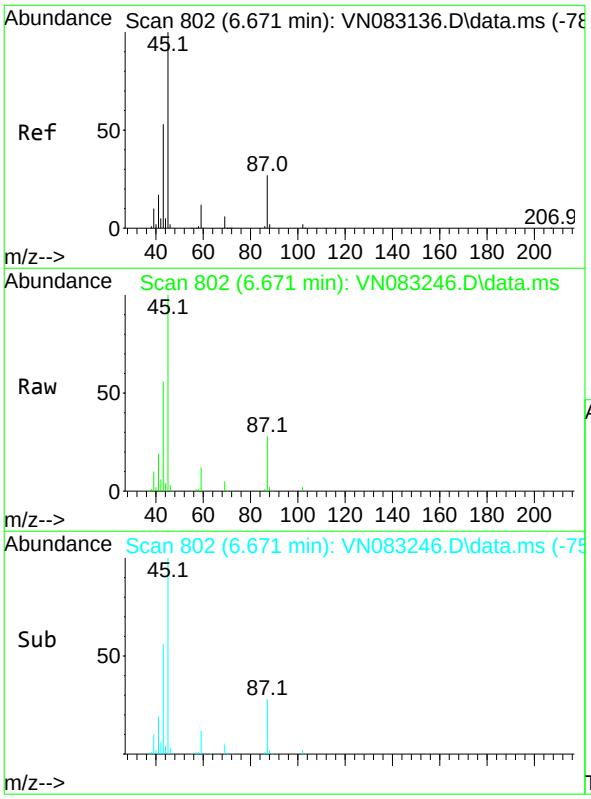
Ion	Ratio	Lower	Upper
96	100		
61	147.6	123.4	185.2
98	64.6	49.3	73.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

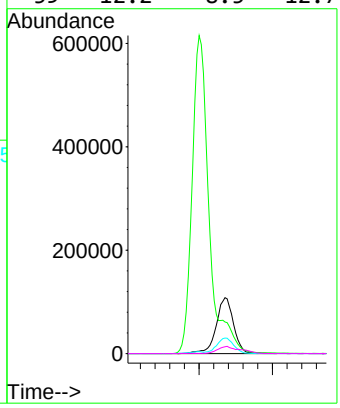
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

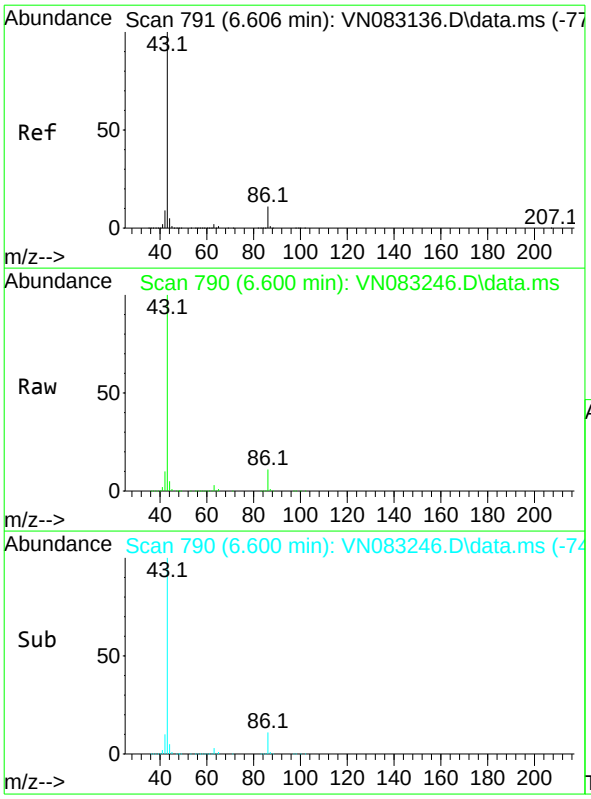


#22
Diisopropyl ether
Concen: 50.588 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 45 Resp: 354751

Ion	Ratio	Lower	Upper
45	100		
43	55.5	44.0	66.0
87	27.5	19.7	29.5
59	12.2	8.5	12.7

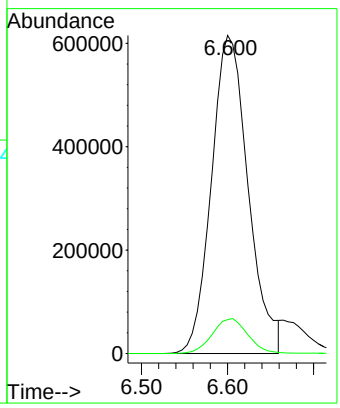




#23
Vinyl Acetate
Concen: 253.661 ug/l m
RT: 6.600 min Scan# 79
Delta R.T. -0.006 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 43 Resp: 1823271

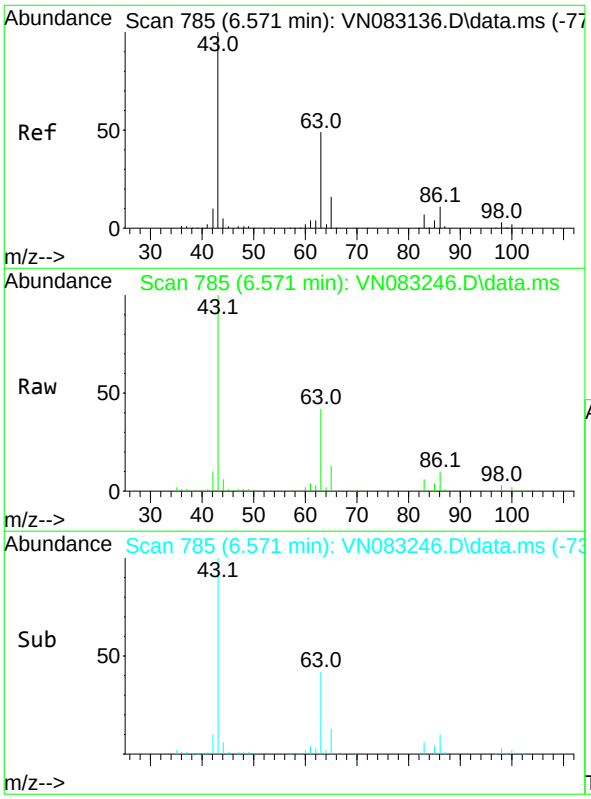
Ion	Ratio	Lower	Upper
43	100		
86	10.6	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

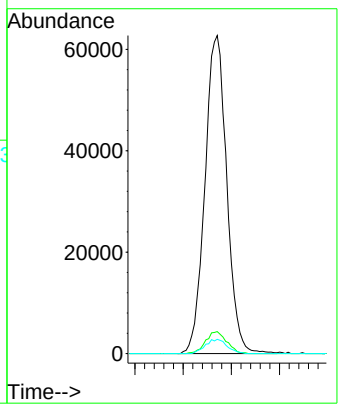
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

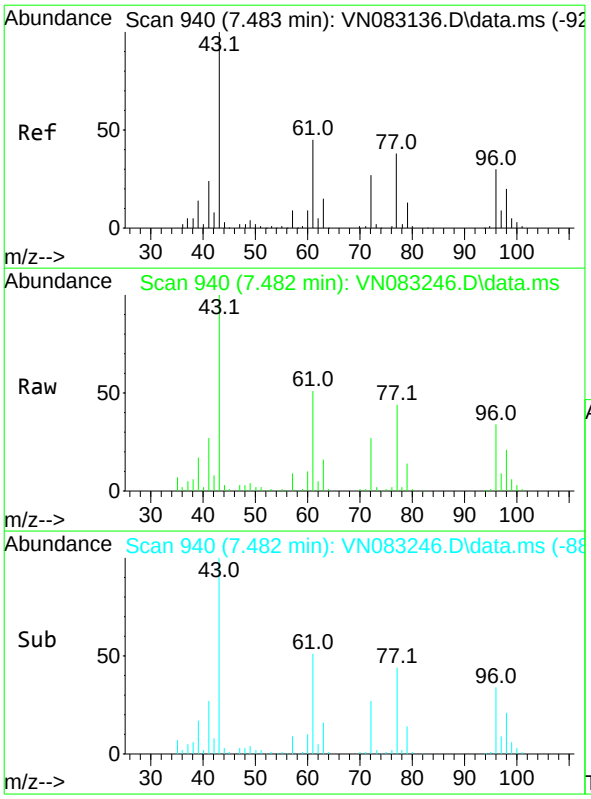


#24
1,1-Dichloroethane
Concen: 51.674 ug/l
RT: 6.571 min Scan# 785
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 63 Resp: 197517

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.3	9.9
100	4.5	2.0	6.0

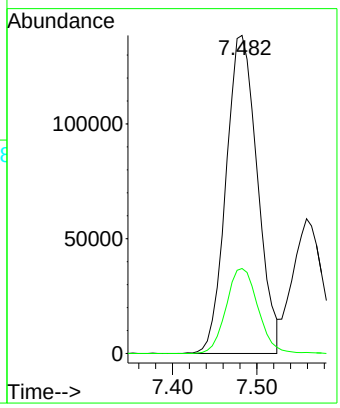




#25
2-Butanone
Concen: 234.960 ug/l
RT: 7.482 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 43 Resp: 357852

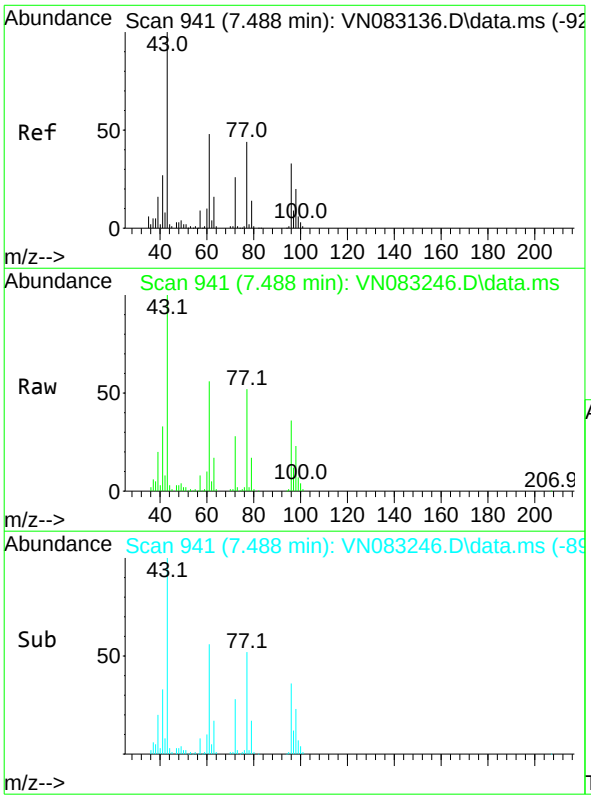
Ion	Ratio	Lower	Upper
43	100		
72	26.7	18.2	27.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

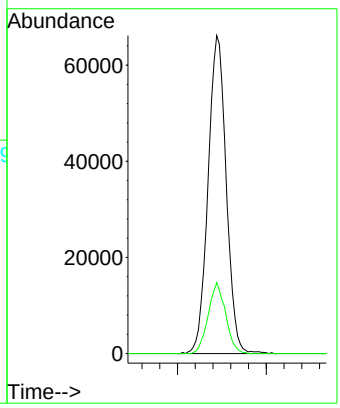
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

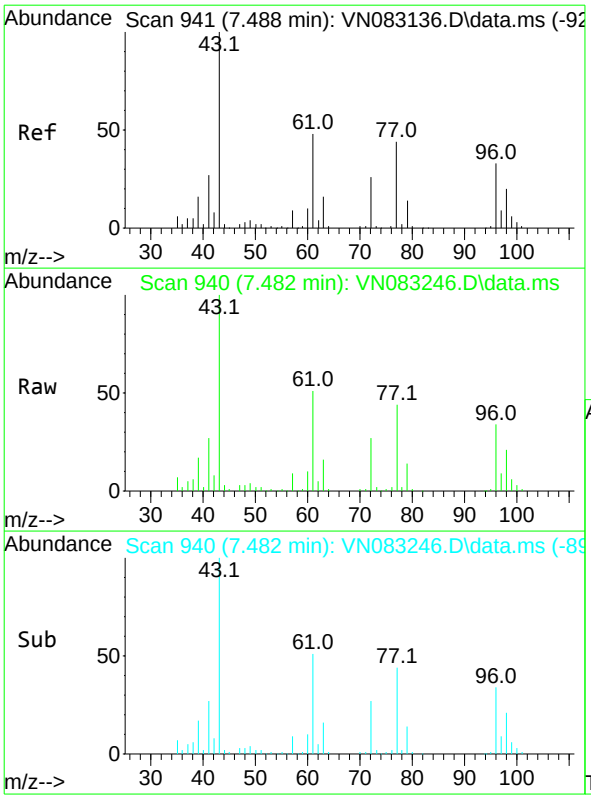


#26
2,2-Dichloropropane
Concen: 52.961 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 77 Resp: 188000

Ion	Ratio	Lower	Upper
77	100		
97	21.4	10.3	30.9

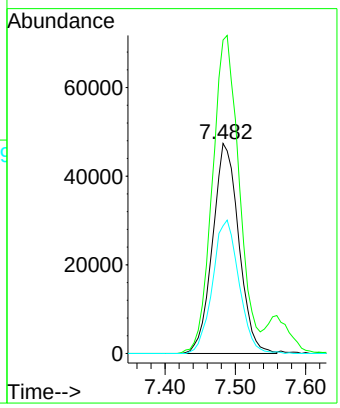




#27
cis-1,2-Dichloroethene
Concen: 49.779 ug/l
RT: 7.482 min Scan# 94
Delta R.T. -0.006 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 96 Resp: 122563

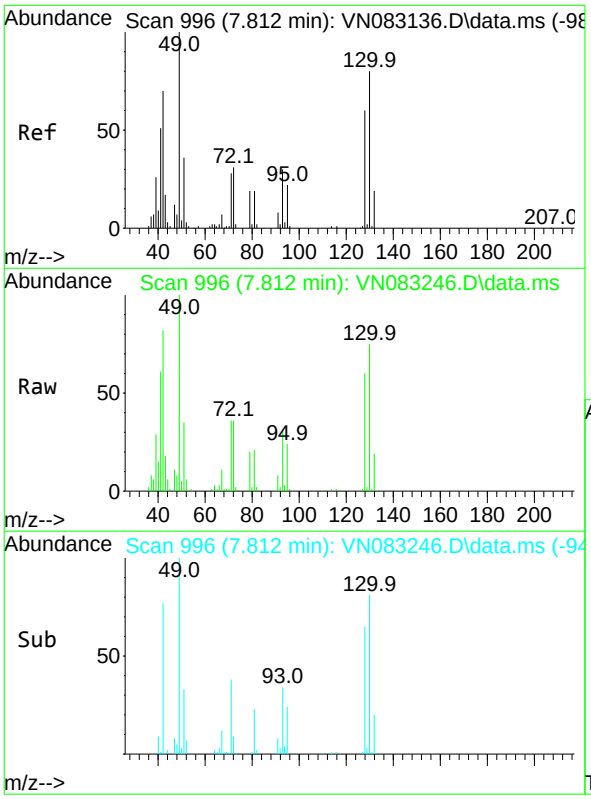
Ion	Ratio	Lower	Upper
96	100		
61	154.5	0.0	329.6
98	64.2	0.0	128.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

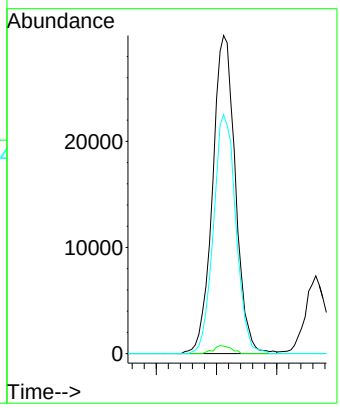
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

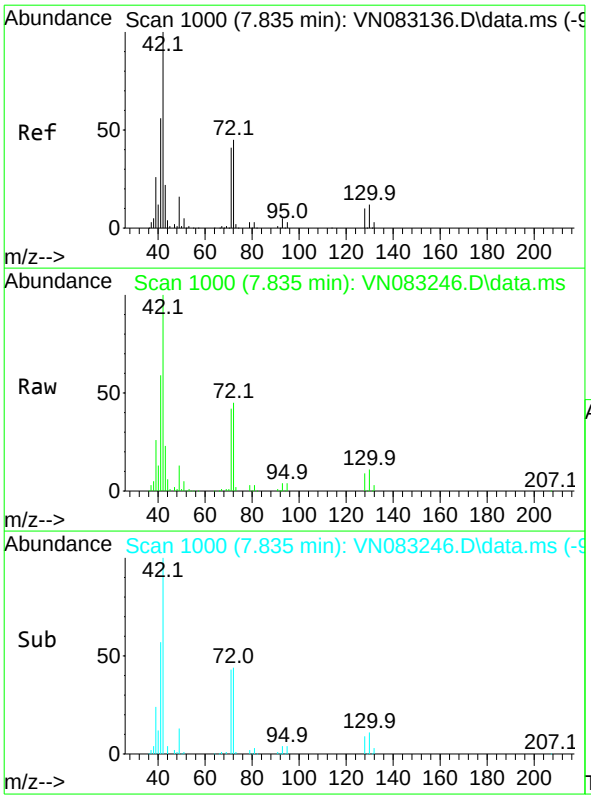


#28
Bromochloromethane
Concen: 50.555 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 49 Resp: 78972

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	3.8
130	73.7	50.5	75.7

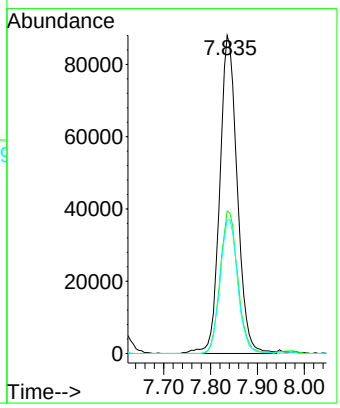




#29
Tetrahydrofuran
Concen: 231.559 ug/l
RT: 7.835 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 42 Resp: 227980

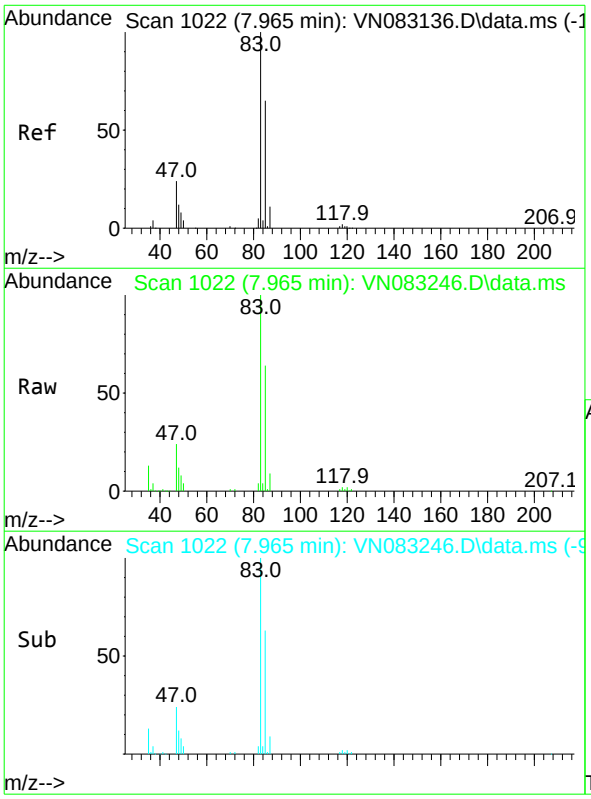
Ion	Ratio	Lower	Upper
42	100		
72	45.1	30.0	45.0#
71	42.6	28.3	42.5#



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

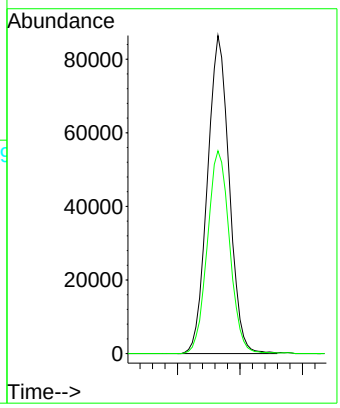
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

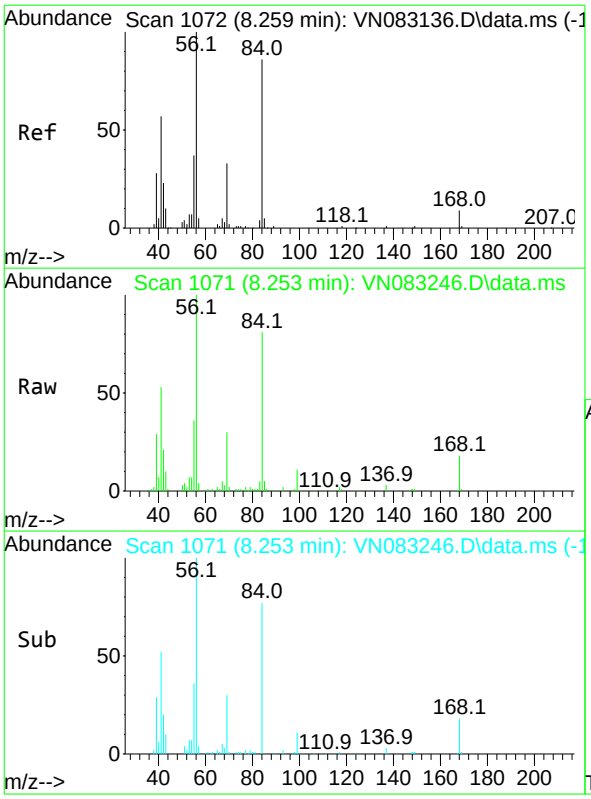


#30
Chloroform
Concen: 52.728 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 83 Resp: 209389

Ion	Ratio	Lower	Upper
83	100		
85	63.8	50.9	76.3





#31
Cyclohexane
Concen: 44.970 ug/l
RT: 8.253 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

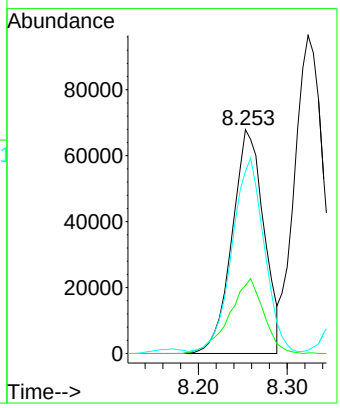
Tgt Ion: 56 Resp: 168933

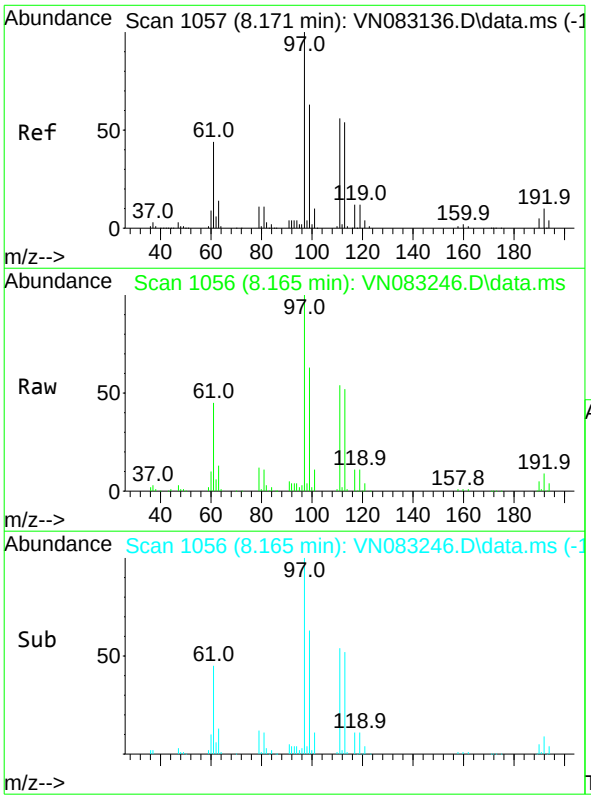
Ion	Ratio	Lower	Upper
56	100		
69	30.4	24.5	36.7
84	79.7	66.0	99.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

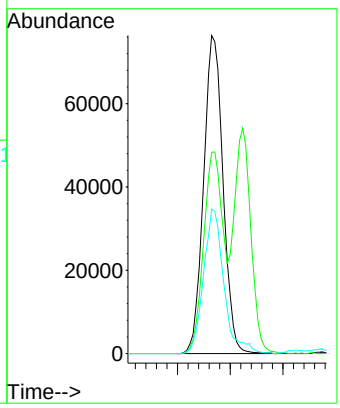


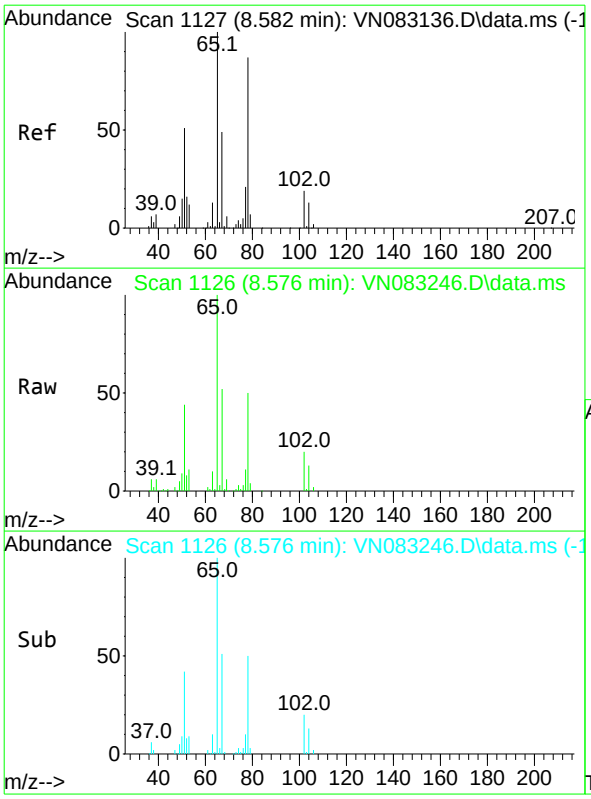


#32
1,1,1-Trichloroethane
Concen: 51.945 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 97 Resp: 195254

Ion	Ratio	Lower	Upper
97	100		
99	63.2	52.0	78.0
61	47.7	42.1	63.1

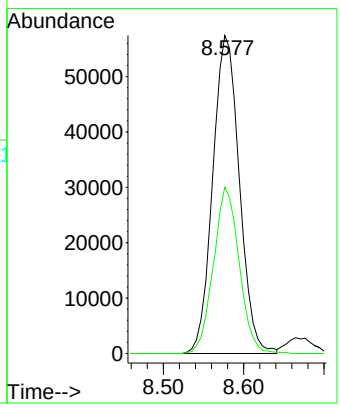




#33
1,2-Dichloroethane-d4
Concen: 52.153 ug/l
RT: 8.576 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 65 Resp: 132203

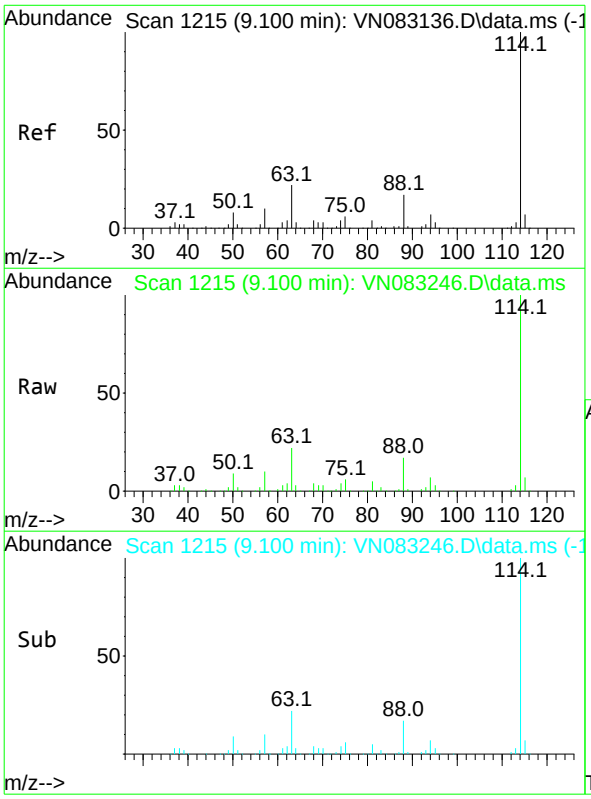
Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	104.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

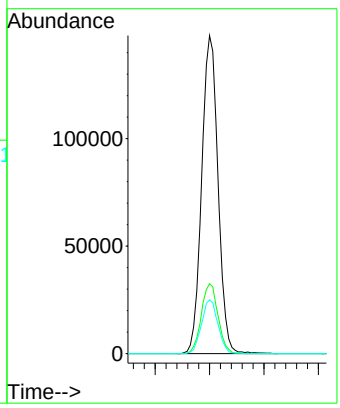
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

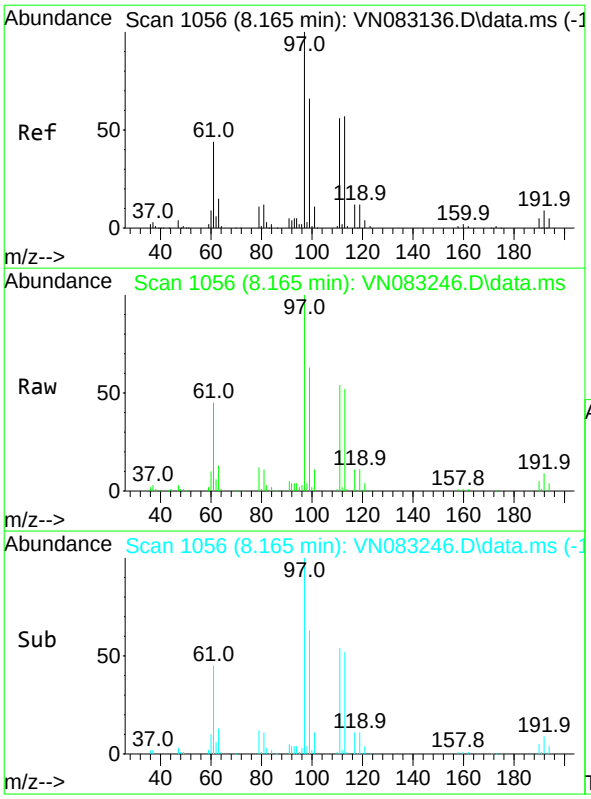


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion:114 Resp: 308255

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	44.6
88	16.9	0.0	31.4

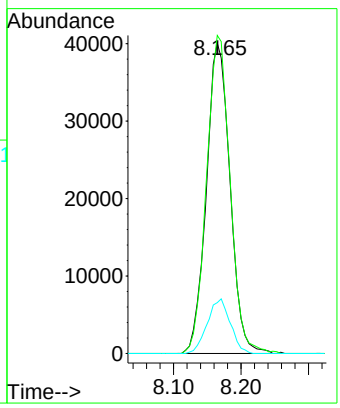




#35
Dibromofluoromethane
Concen: 50.737 ug/l
RT: 8.165 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion:113 Resp: 97621

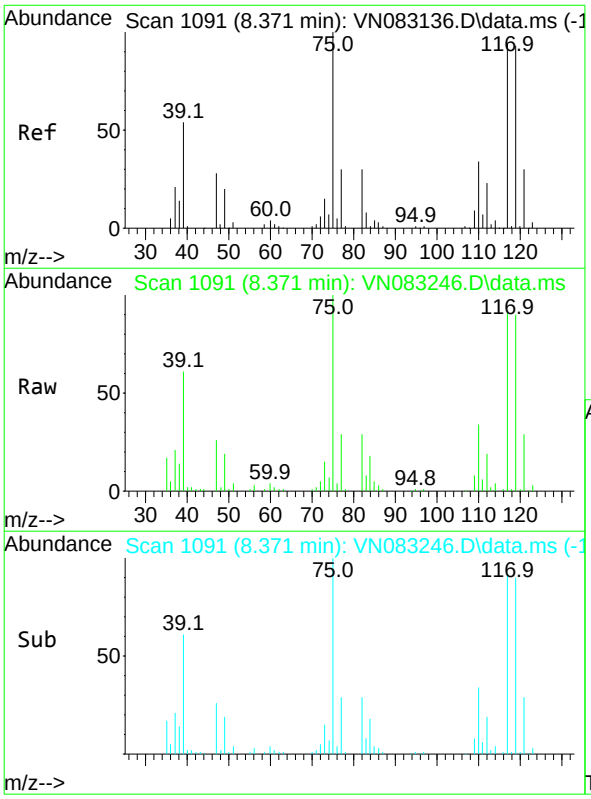
Ion	Ratio	Lower	Upper
113	100		
111	101.9	82.4	123.6
192	17.1	14.9	22.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

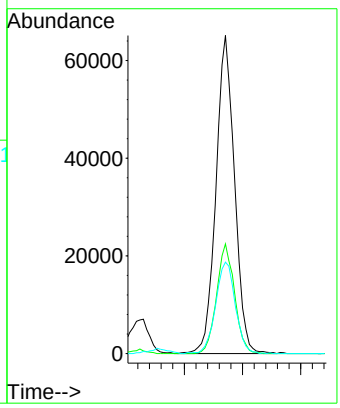
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

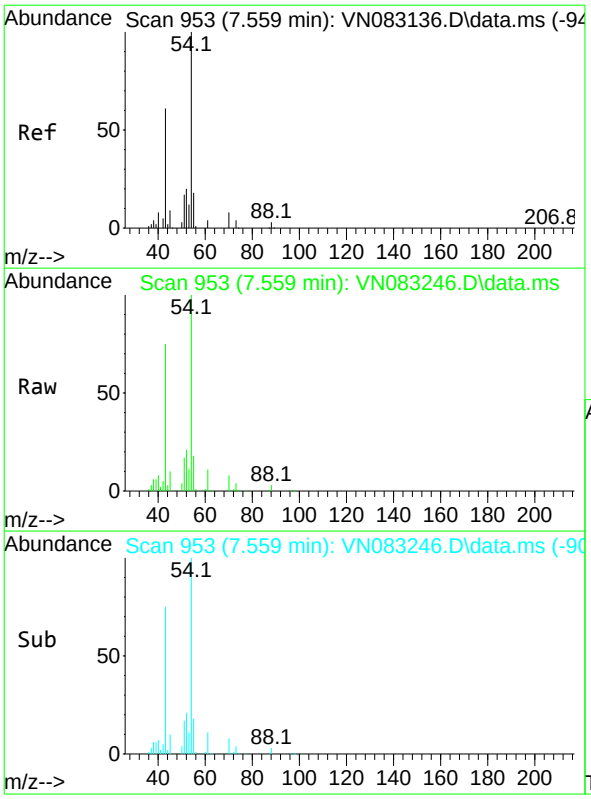


#36
1,1-Dichloropropene
Concen: 49.623 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 75 Resp: 144432

Ion	Ratio	Lower	Upper
75	100		
110	33.3	16.3	48.9
77	30.5	24.6	37.0

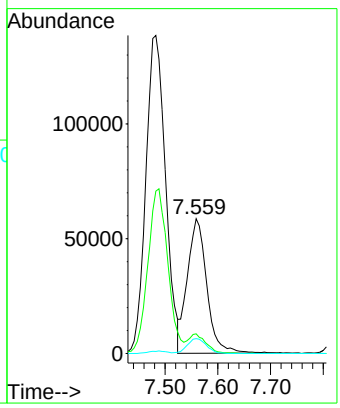




#37
Ethyl Acetate
Concen: 46.356 ug/l
RT: 7.559 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 43 Resp: 151069

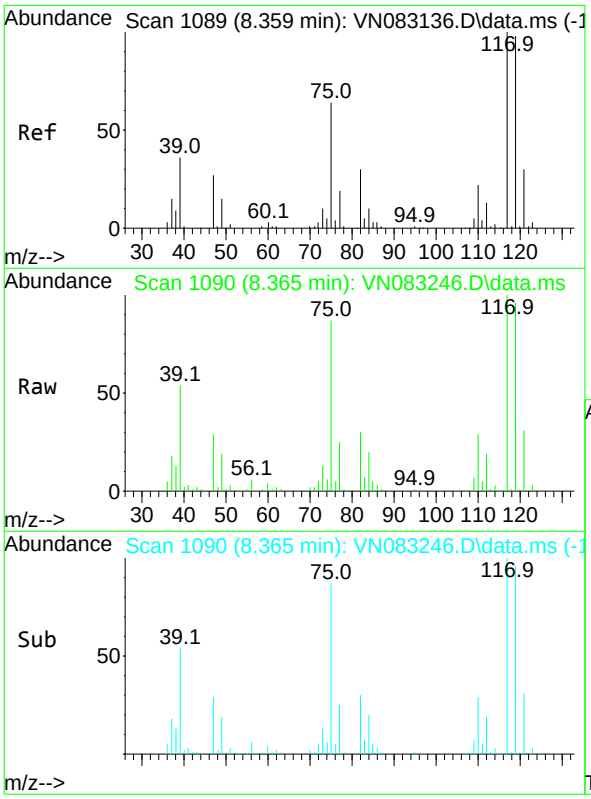
Ion	Ratio	Lower	Upper
43	100		
61	13.3	9.3	13.9
70	10.8	7.0	10.6#



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

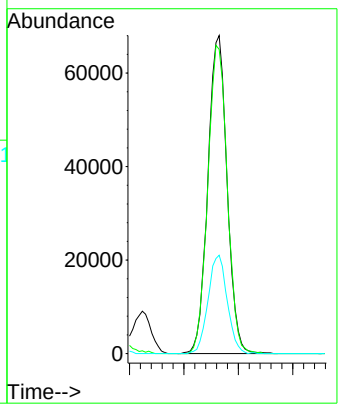
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

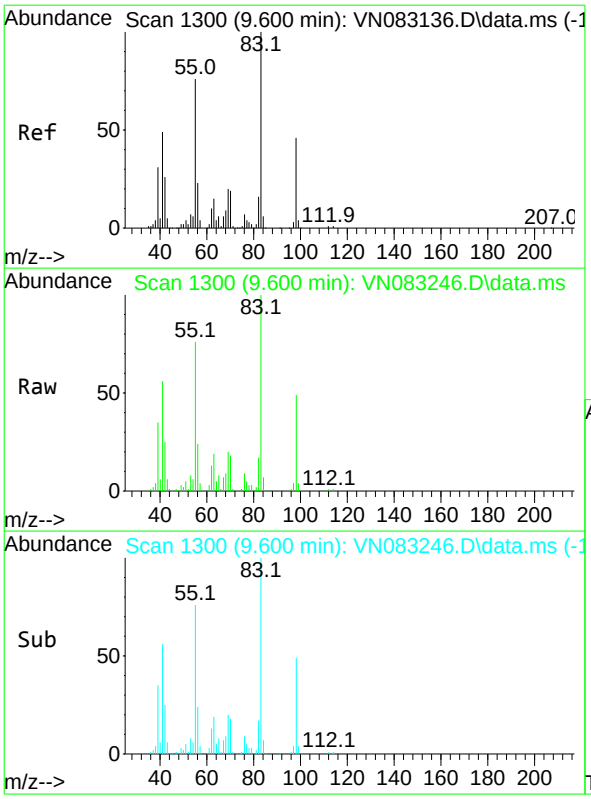


#38
Carbon Tetrachloride
Concen: 50.883 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.006 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion:117 Resp: 166807

Ion	Ratio	Lower	Upper
117	100		
119	95.6	74.9	112.3
121	30.9	24.3	36.5

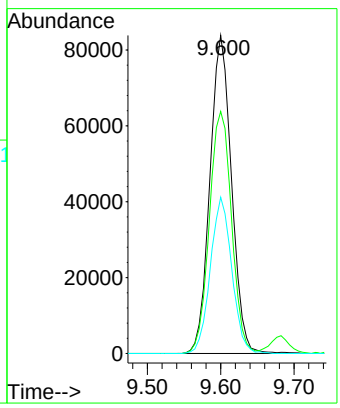




#39
Methylcyclohexane
Concen: 47.969 ug/l
RT: 9.600 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 83 Resp: 171487

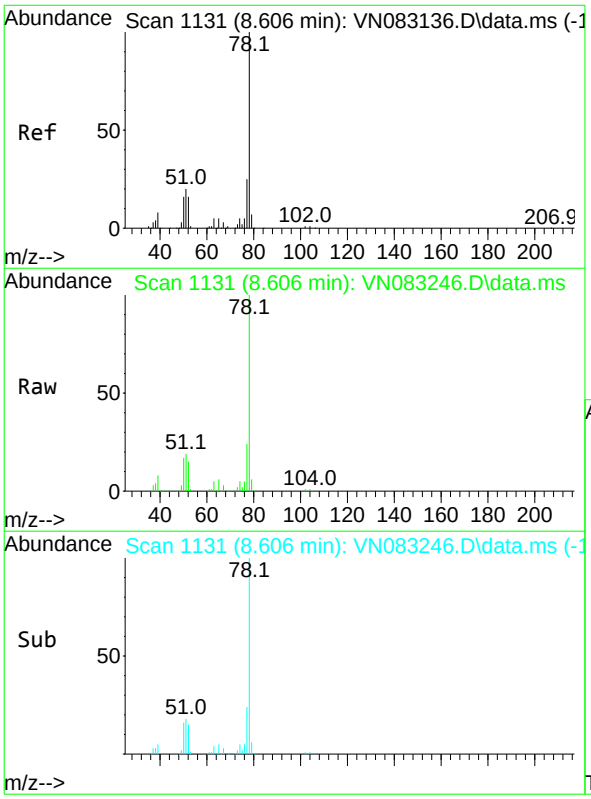
Ion	Ratio	Lower	Upper
83	100		
55	76.1	66.4	99.6
98	49.1	40.7	61.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

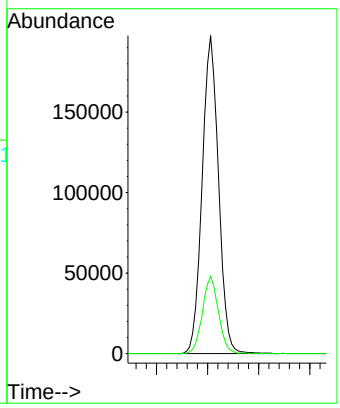
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

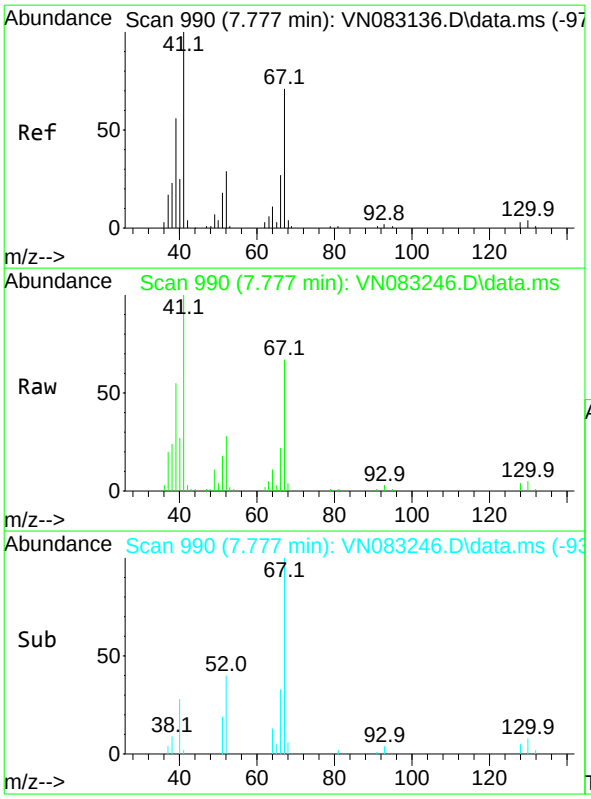


#40
Benzene
Concen: 50.617 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 78 Resp: 438884

Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.0	28.4

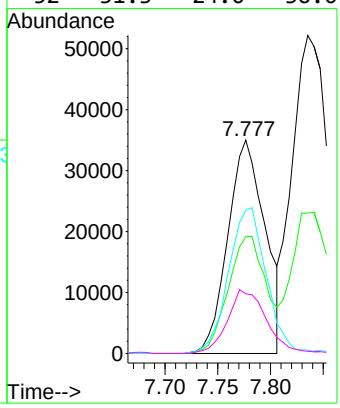




#41
Methacrylonitrile
Concen: 46.379 ug/l
RT: 7.777 min Scan# 99
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 41 Resp: 85938

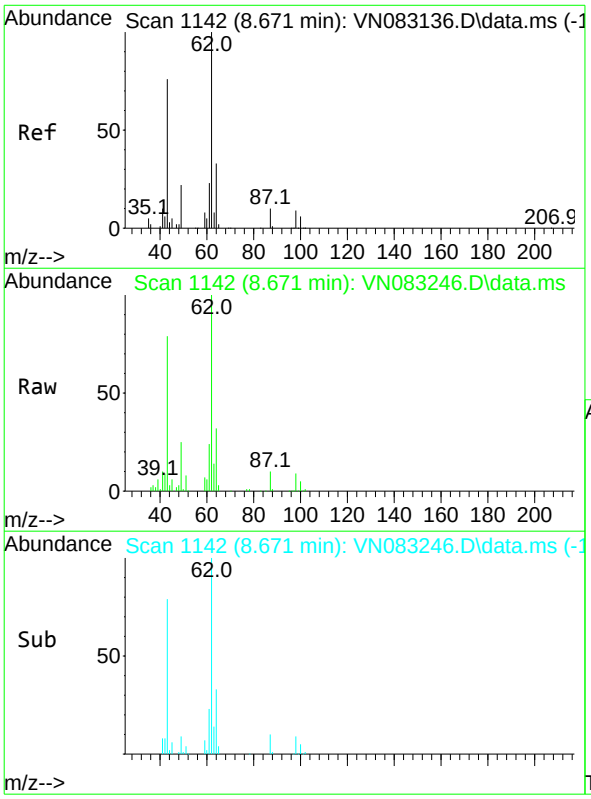
Ion	Ratio	Lower	Upper
41	100		
39	56.1	45.5	68.3
67	69.6	50.5	75.7
52	31.3	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

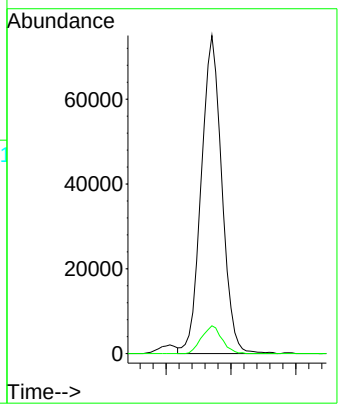
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

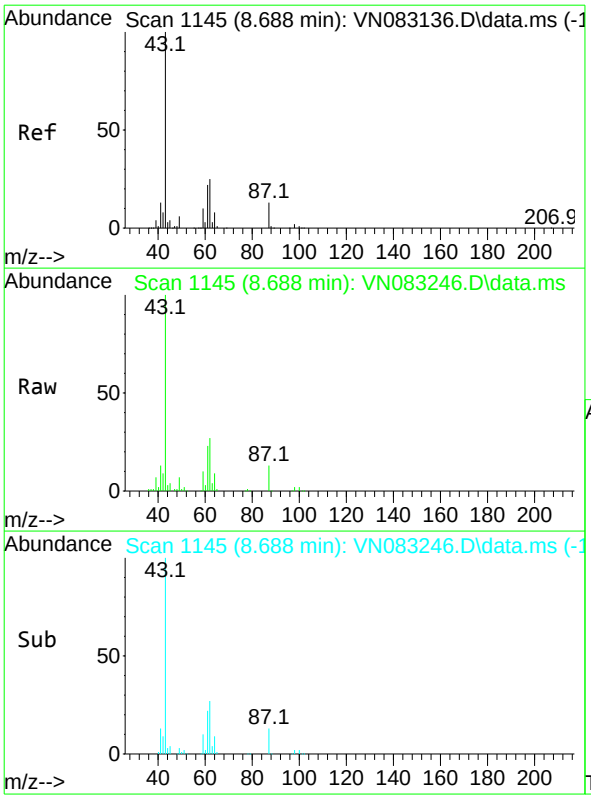


#42
1,2-Dichloroethane
Concen: 52.326 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 62 Resp: 165275

Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	15.8

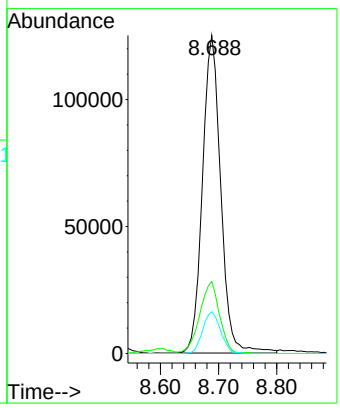




#43
Isopropyl Acetate
Concen: 48.153 ug/l
RT: 8.688 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 43 Resp: 272852

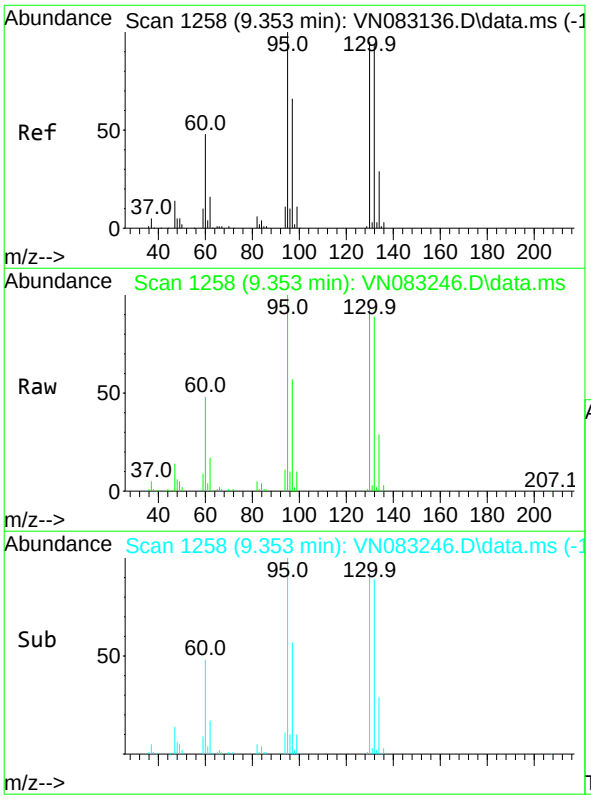
Ion	Ratio	Lower	Upper
43	100		
61	24.2	17.8	26.6
87	12.8	8.2	12.2#



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

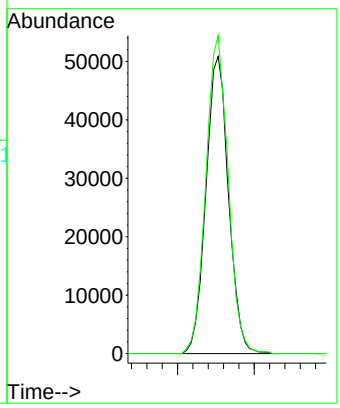
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

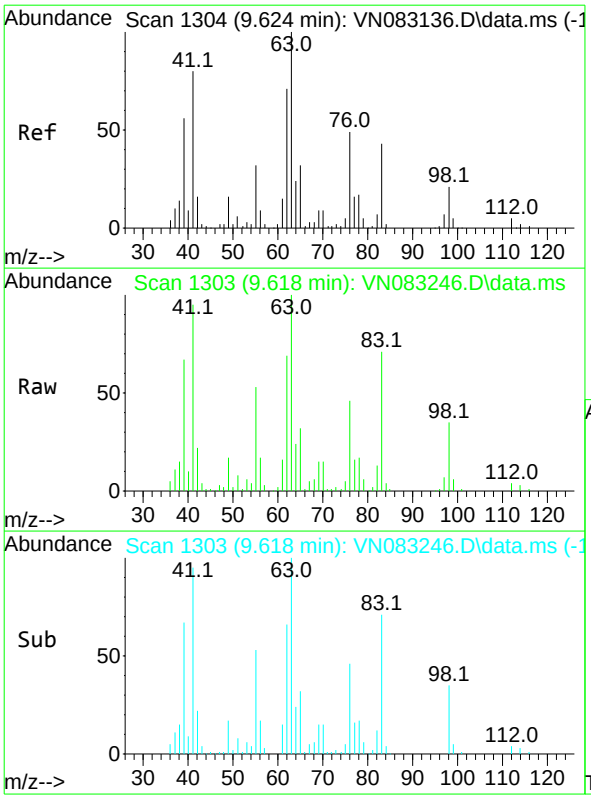


#44
Trichloroethene
Concen: 50.366 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion:130 Resp: 103946

Ion	Ratio	Lower	Upper
130	100		
95	107.0	0.0	197.8

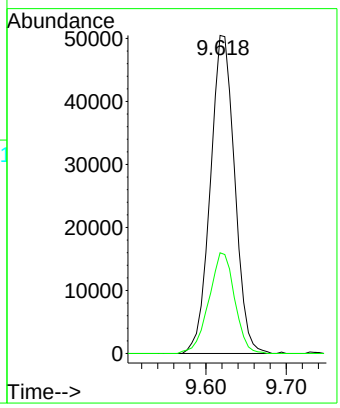




#45
1,2-Dichloropropane
Concen: 51.570 ug/l
RT: 9.618 min Scan# 13
Delta R.T. -0.006 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 63 Resp: 106139

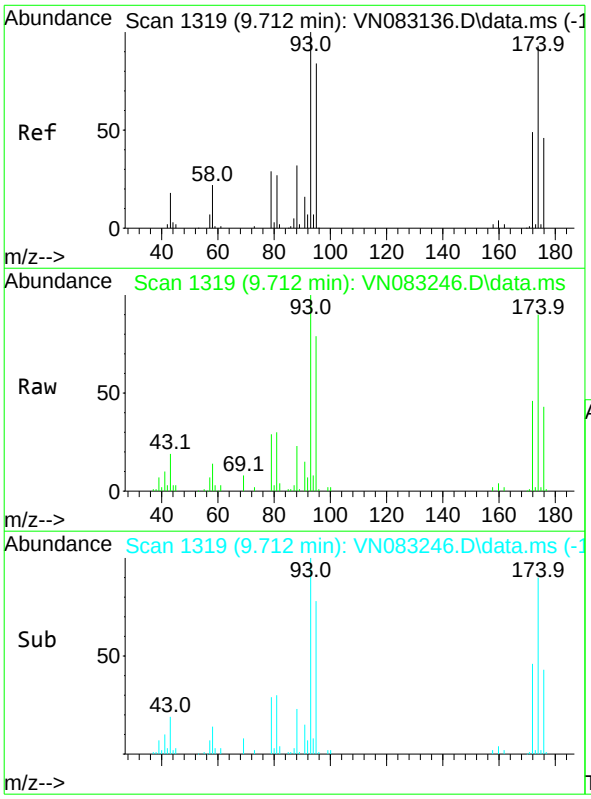
Ion	Ratio	Lower	Upper
63	100		
65	31.7	24.4	36.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

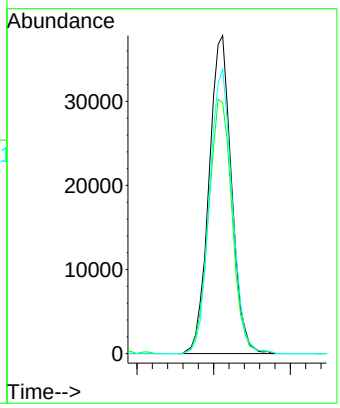
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

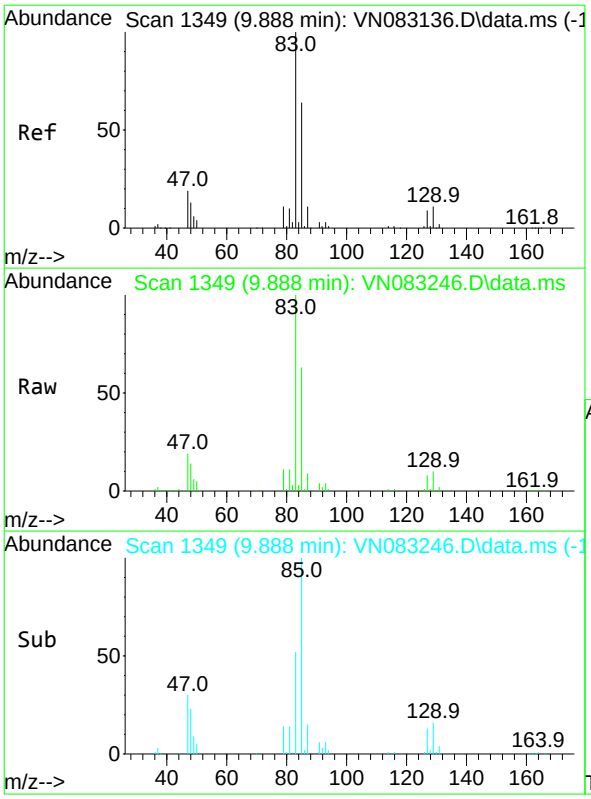


#46
Dibromomethane
Concen: 52.392 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 93 Resp: 77183

Ion	Ratio	Lower	Upper
93	100		
95	83.0	65.8	98.6
174	90.2	71.7	107.5

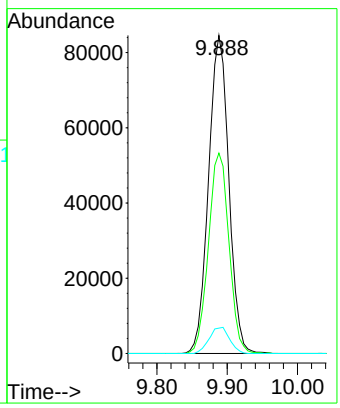




#47
Bromodichloromethane
Concen: 51.206 ug/l
RT: 9.888 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 83 Resp: 169381

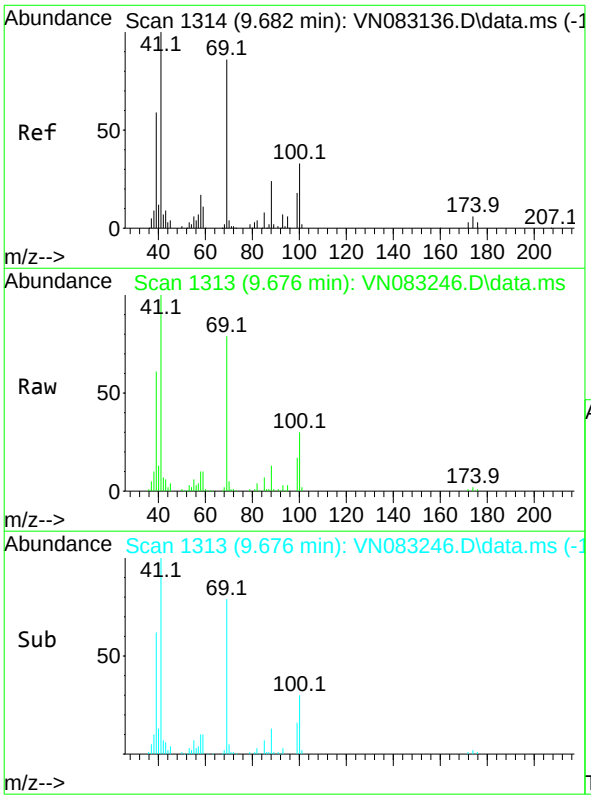
Ion	Ratio	Lower	Upper
83	100		
85	63.0	51.1	76.7
127	8.0	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

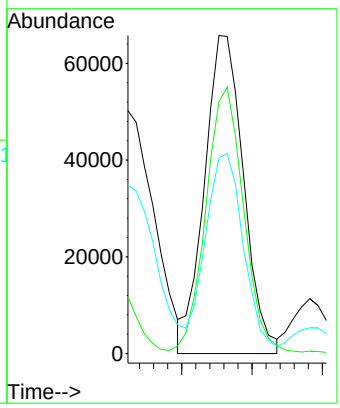
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

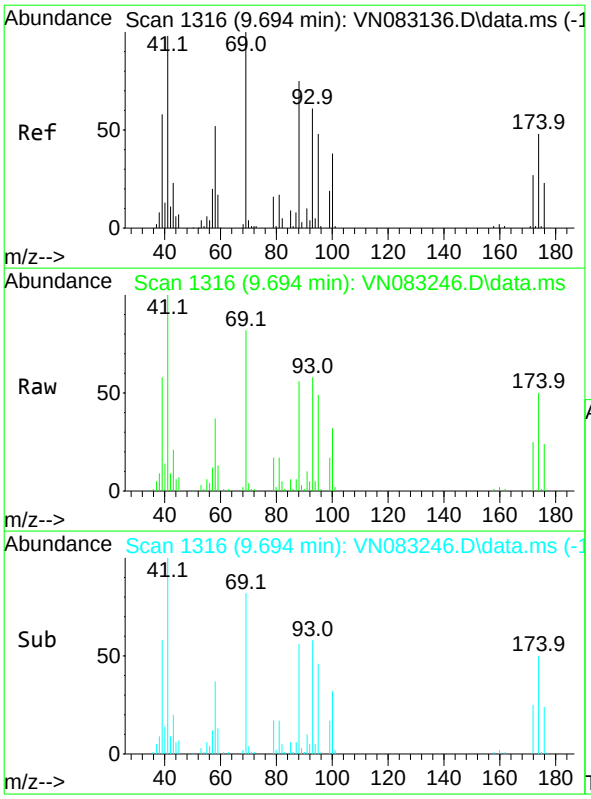


#48
Methyl methacrylate
Concen: 47.166 ug/l
RT: 9.676 min Scan# 1313
Delta R.T. -0.006 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 41 Resp: 127076

Ion	Ratio	Lower	Upper
41	100		
69	81.4	56.3	84.5
39	61.5	50.3	75.5

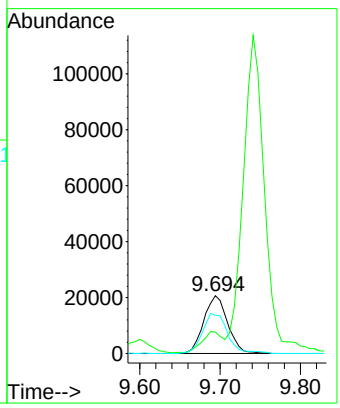




#49
1,4-Dioxane
Concen: 874.255 ug/l
RT: 9.694 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 88 Resp: 42495

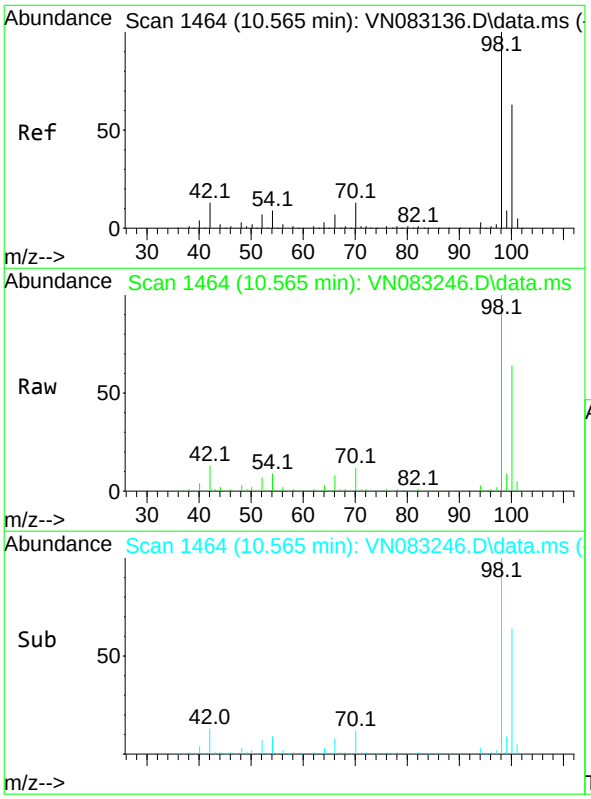
Ion	Ratio	Lower	Upper
88	100		
43	32.3	27.8	41.8
58	73.2	59.4	89.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

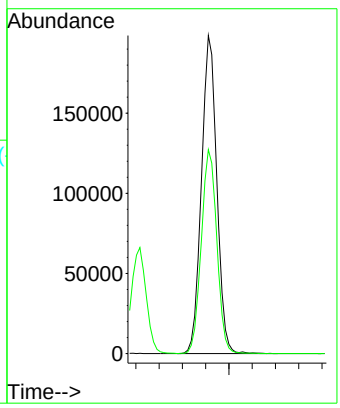
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

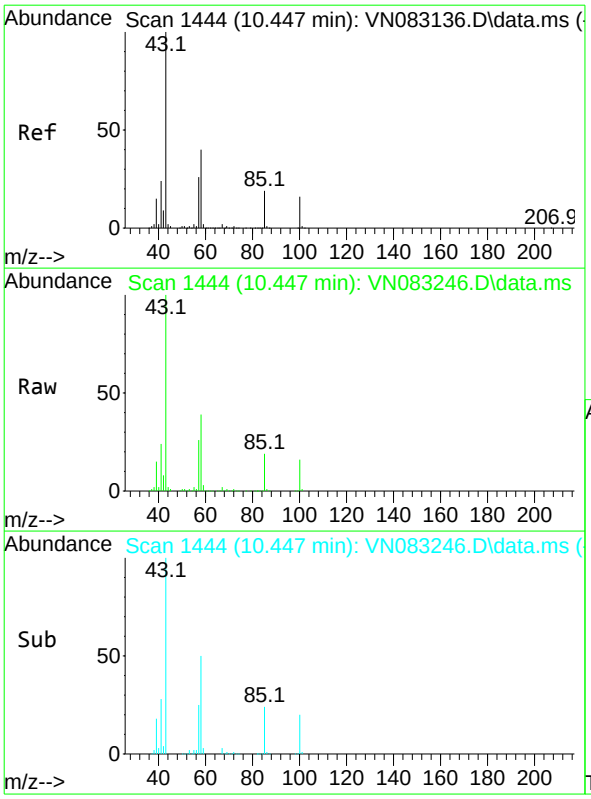


#50
Toluene-d8
Concen: 50.663 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 98 Resp: 363620

Ion	Ratio	Lower	Upper
98	100		
100	65.0	51.5	77.3

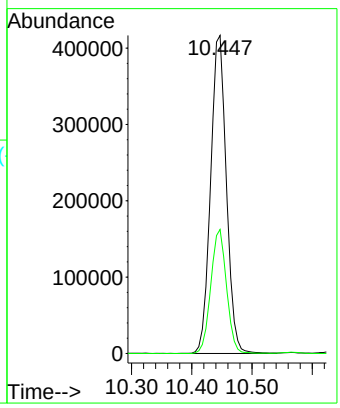




#51
4-Methyl-2-Pentanone
Concen: 246.005 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 43 Resp: 758114

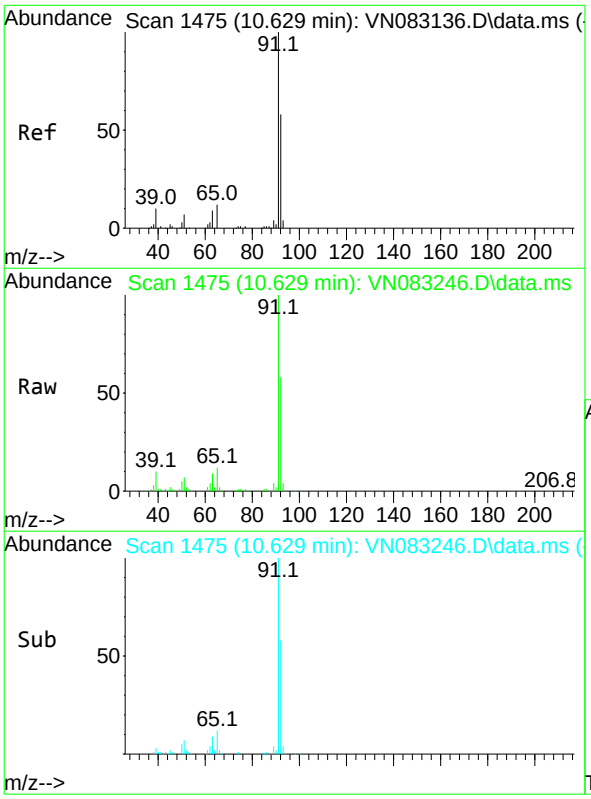
Ion	Ratio	Lower	Upper
43	100		
58	38.8	28.2	42.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

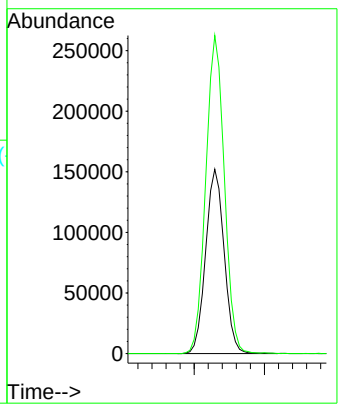
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

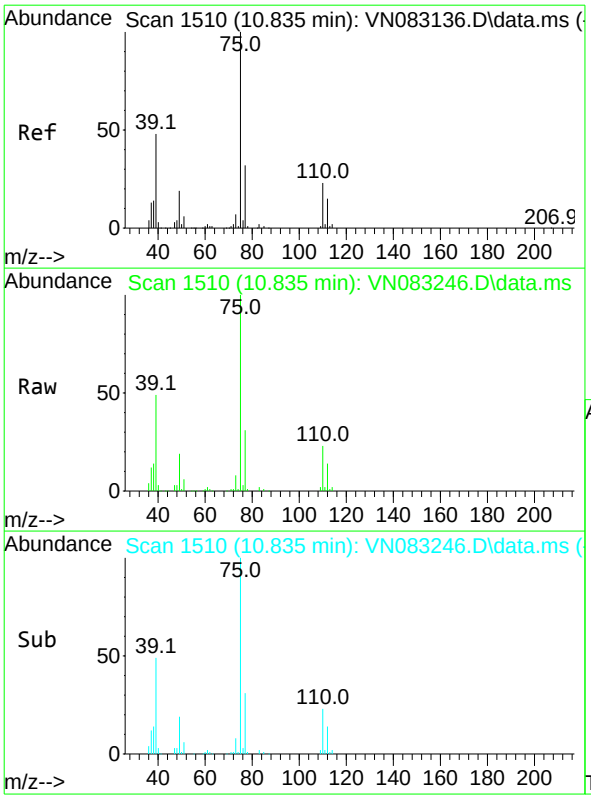


#52
Toluene
Concen: 50.713 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 92 Resp: 277827

Ion	Ratio	Lower	Upper
92	100		
91	173.1	139.4	209.0

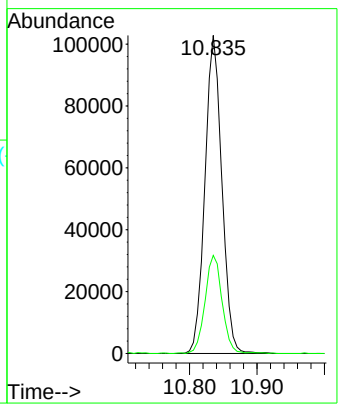




#53
t-1,3-Dichloropropene
Concen: 52.665 ug/l
RT: 10.835 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 75 Resp: 178945

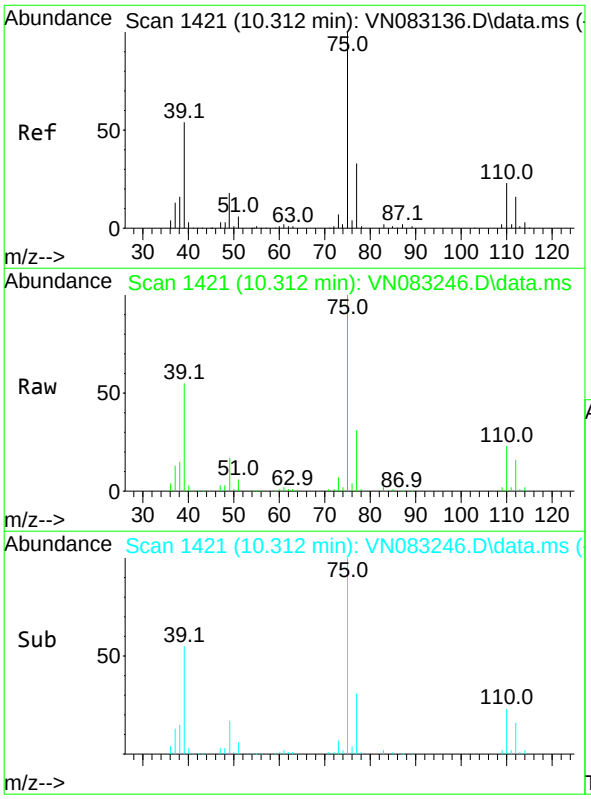
Ion	Ratio	Lower	Upper
75	100		
77	30.8	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

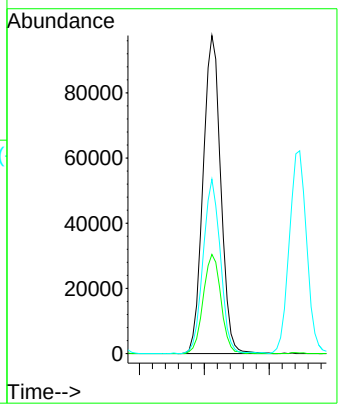
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

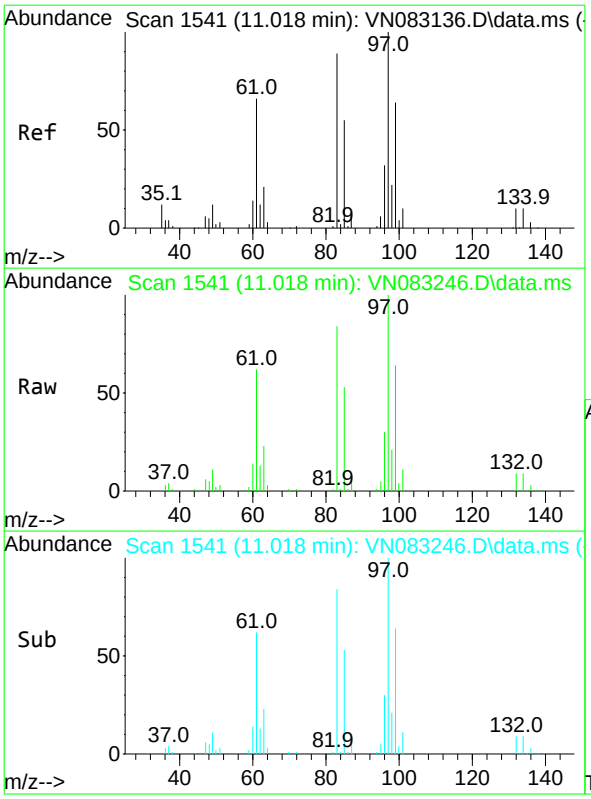


#54
cis-1,3-Dichloropropene
Concen: 51.111 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 75 Resp: 184717

Ion	Ratio	Lower	Upper
75	100		
77	31.2	24.3	36.5
39	54.8	50.5	75.7

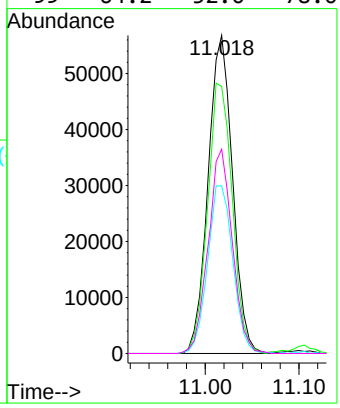




#55
1,1,2-Trichloroethane
Concen: 52.435 ug/l
RT: 11.018 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 97 Resp: 102947

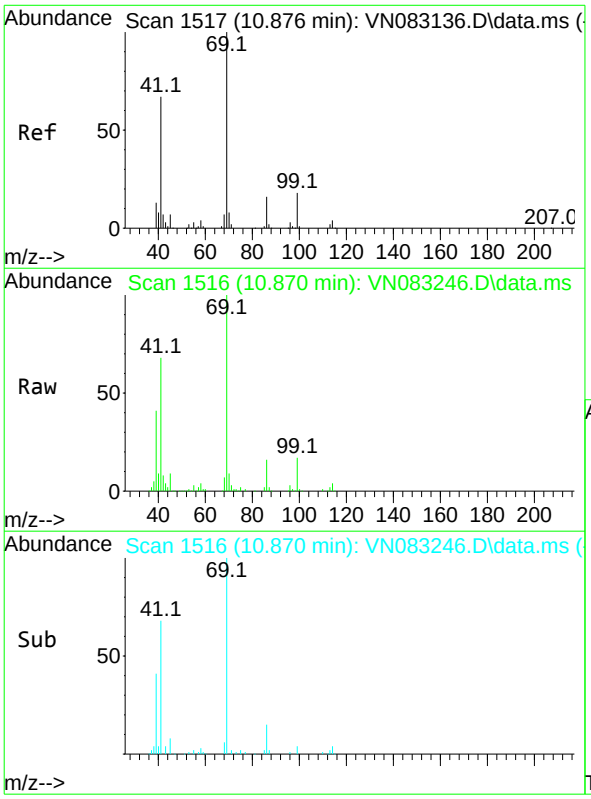
Ion	Ratio	Lower	Upper
97	100		
83	83.9	71.4	107.0
85	52.7	45.8	68.6
99	64.2	52.0	78.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

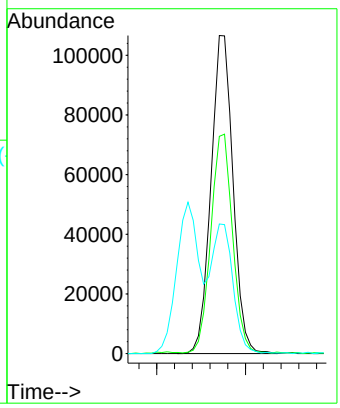
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

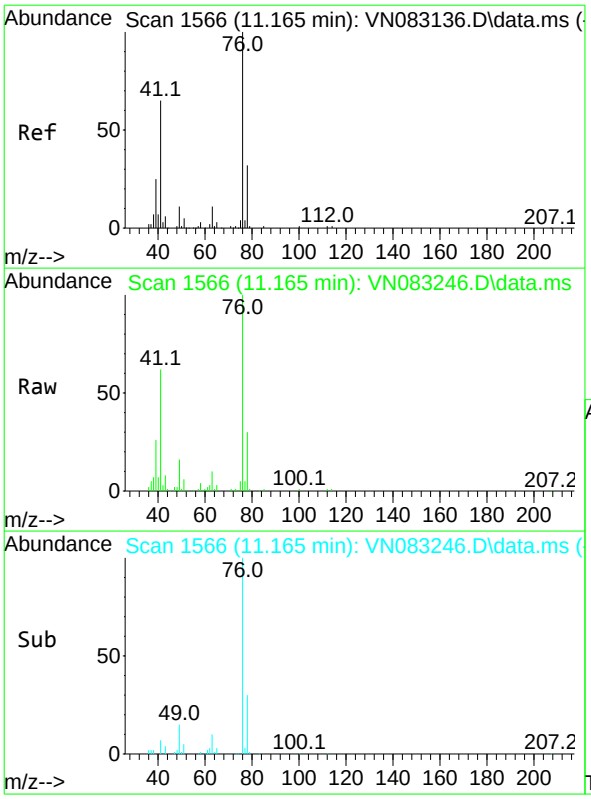


#56
Ethyl methacrylate
Concen: 49.645 ug/l
RT: 10.870 min Scan# 1516
Delta R.T. -0.006 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 69 Resp: 183747

Ion	Ratio	Lower	Upper
69	100		
41	68.0	63.4	95.2
39	41.1	37.4	56.0

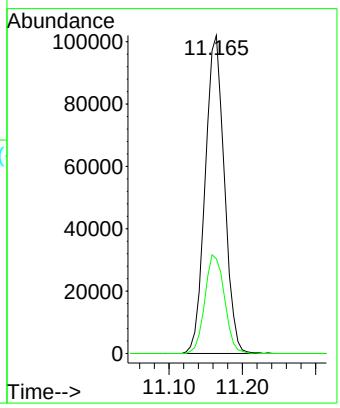




#57
1,3-Dichloropropane
Concen: 52.717 ug/l
RT: 11.165 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 76 Resp: 184479

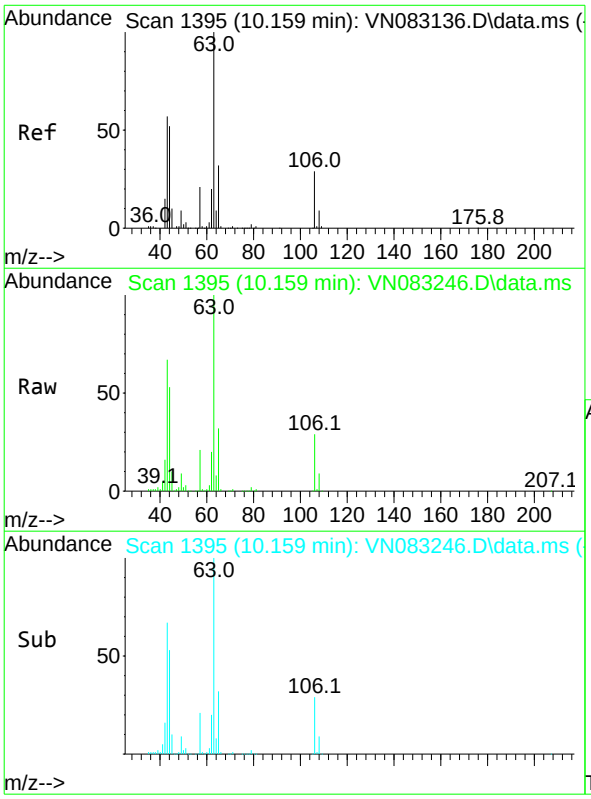
Ion	Ratio	Lower	Upper
76	100		
78	31.8	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

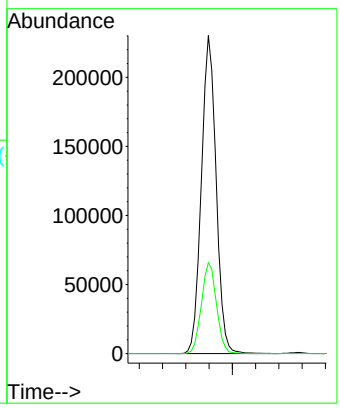
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

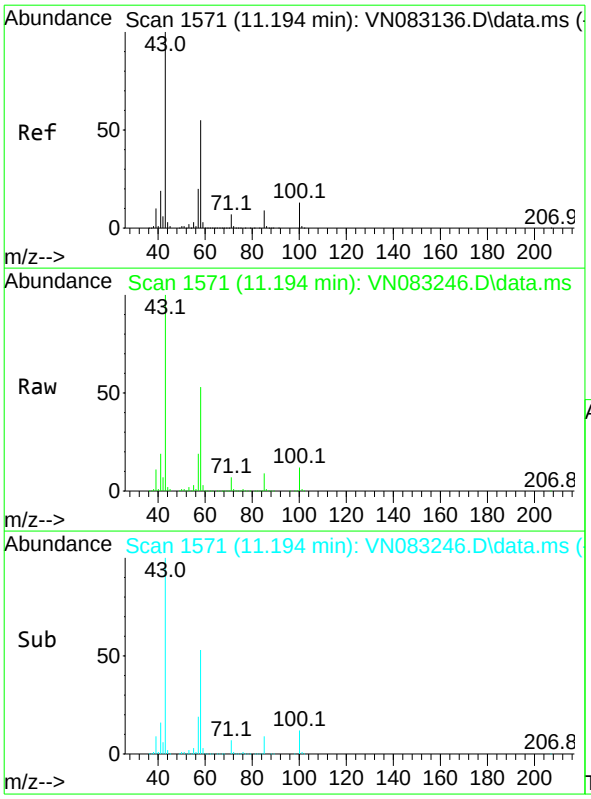


#58
2-Chloroethyl Vinyl ether
Concen: 258.946 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 63 Resp: 405122

Ion	Ratio	Lower	Upper
63	100		
106	29.1	21.4	32.0

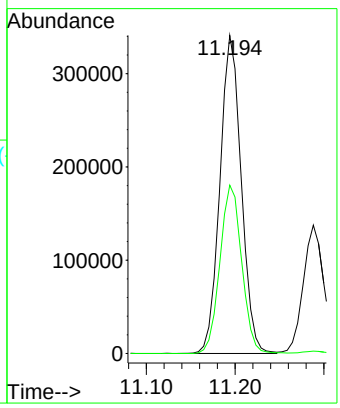




#59
2-Hexanone
Concen: 238.595 ug/l
RT: 11.194 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 43 Resp: 568842

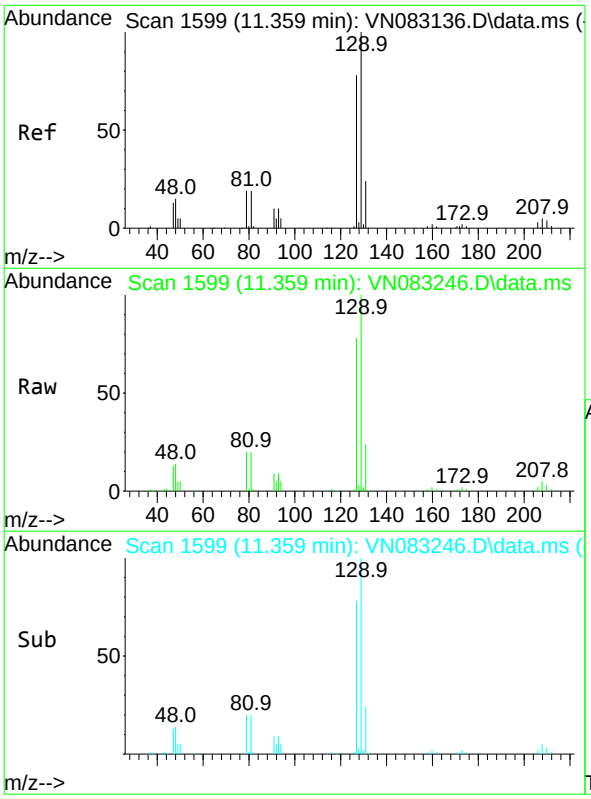
Ion	Ratio	Lower	Upper
43	100		
58	54.0	24.6	73.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

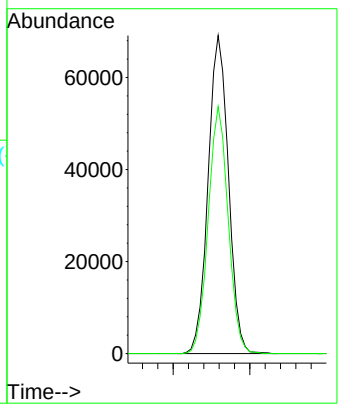
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

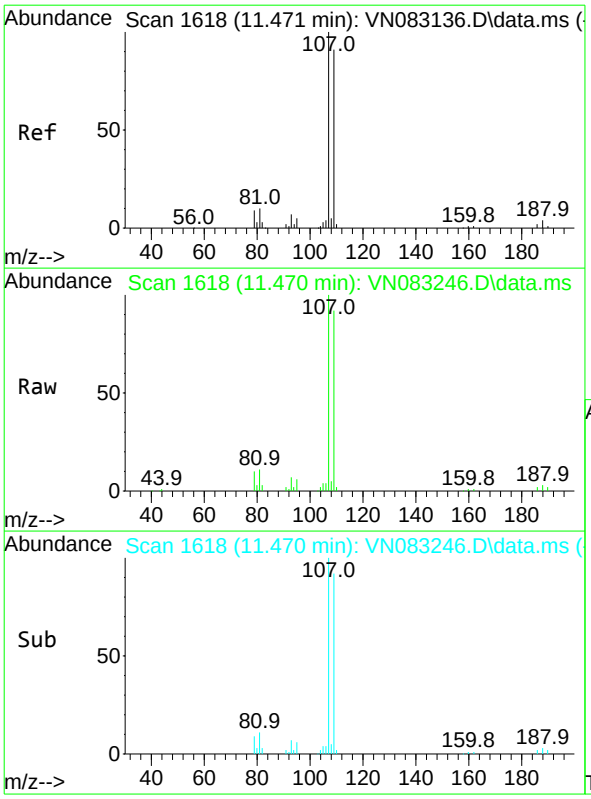


#60
Dibromochloromethane
Concen: 53.622 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion:129 Resp: 127283

Ion	Ratio	Lower	Upper
129	100		
127	76.2	39.2	117.6





#61
1,2-Dibromoethane
Concen: 51.342 ug/l
RT: 11.470 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

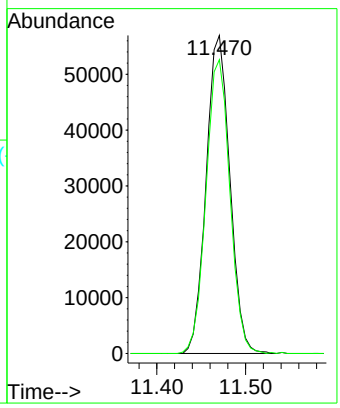
Tgt Ion:107 Resp: 105890

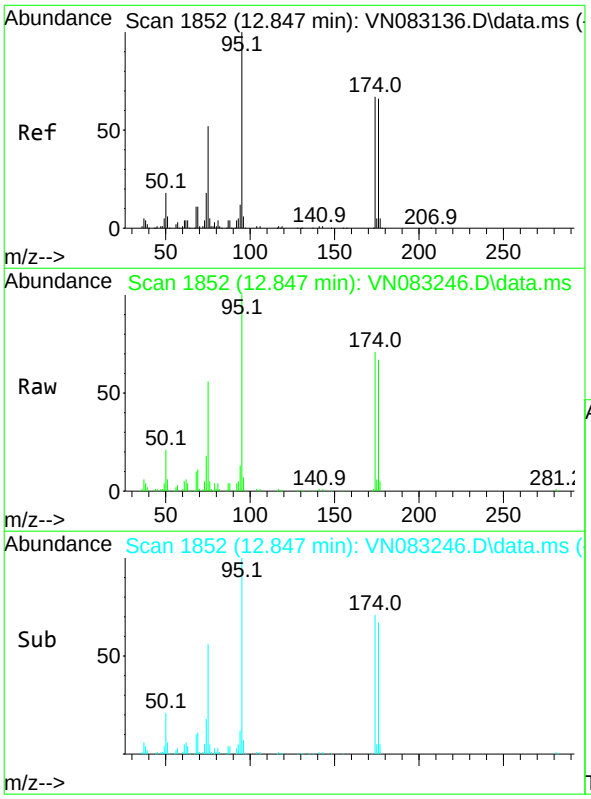
Ion	Ratio	Lower	Upper
107	100		
109	93.1	73.7	110.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

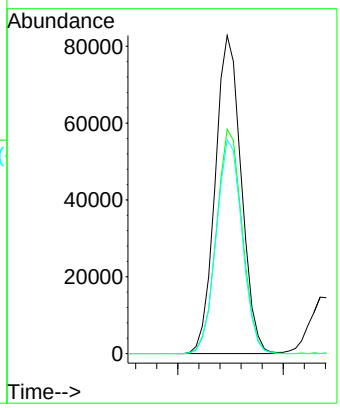


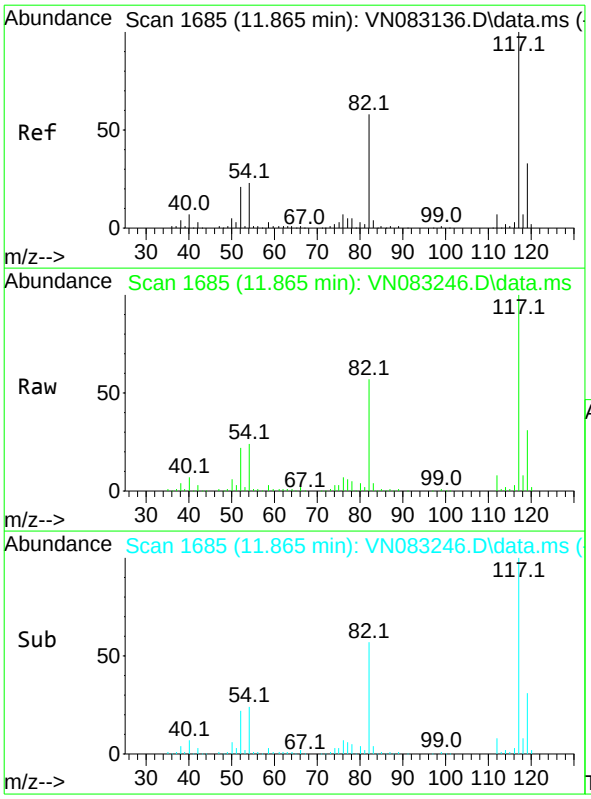


#62
4-Bromofluorobenzene
Concen: 50.813 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 95 Resp: 142178

Ion	Ratio	Lower	Upper
95	100		
174	69.8	0.0	159.2
176	66.9	0.0	147.6

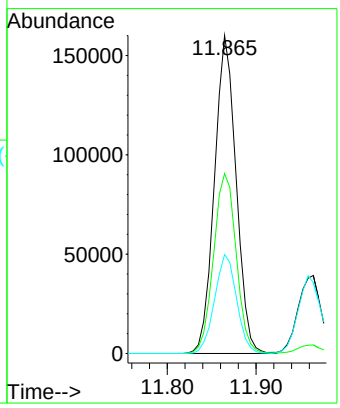




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion:117 Resp: 271780

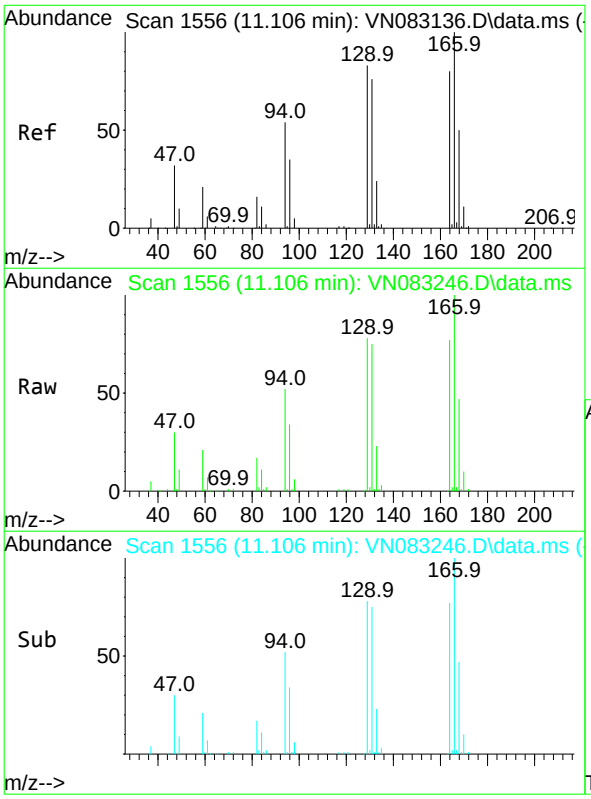
Ion	Ratio	Lower	Upper
117	100		
82	56.5	47.5	71.3
119	31.1	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

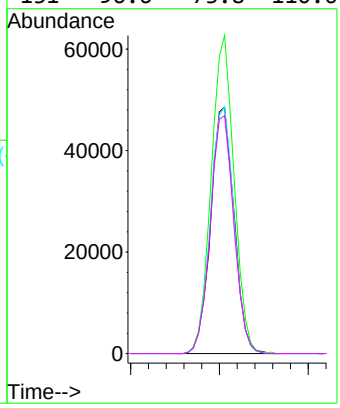
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

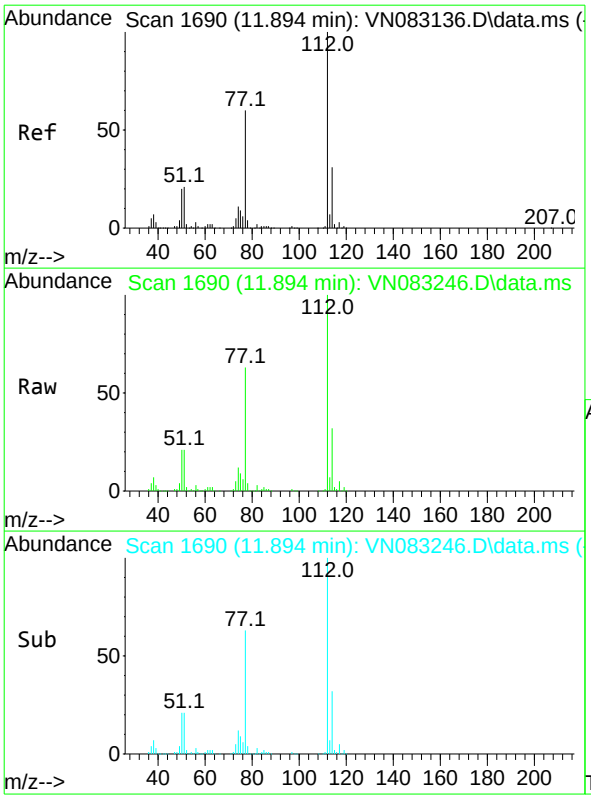


#64
Tetrachloroethene
Concen: 49.447 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion:164 Resp: 89002

Ion	Ratio	Lower	Upper
164	100		
166	129.0	101.4	152.0
129	100.2	75.7	113.5
131	96.6	73.8	110.6

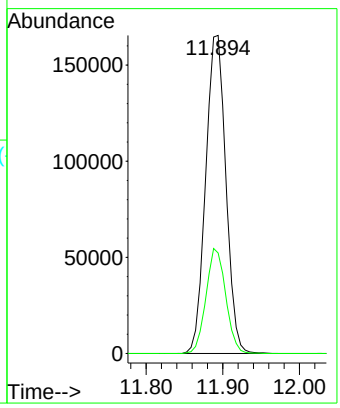




#65
Chlorobenzene
Concen: 50.387 ug/l
RT: 11.894 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion:112 Resp: 302624

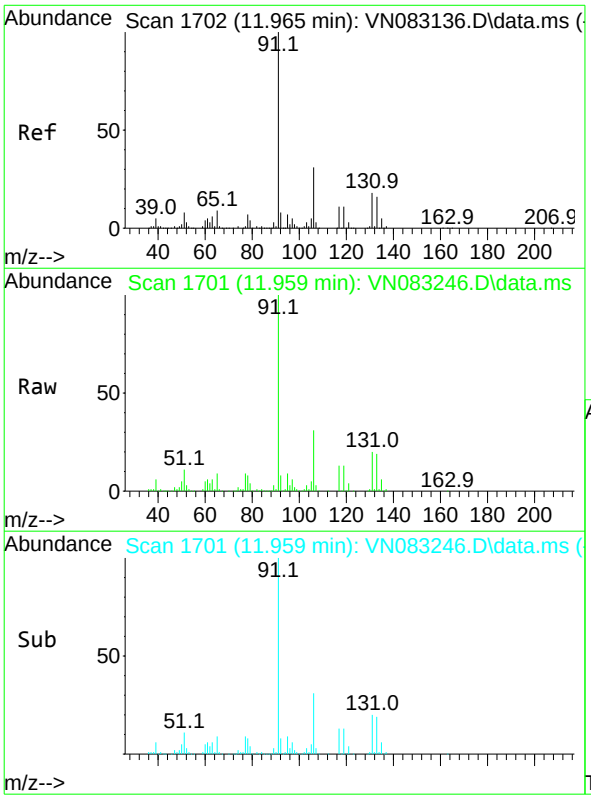
Ion	Ratio	Lower	Upper
112	100		
114	31.6	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

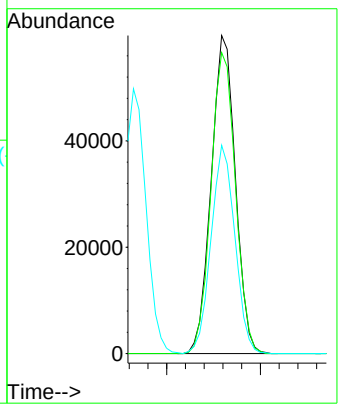
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

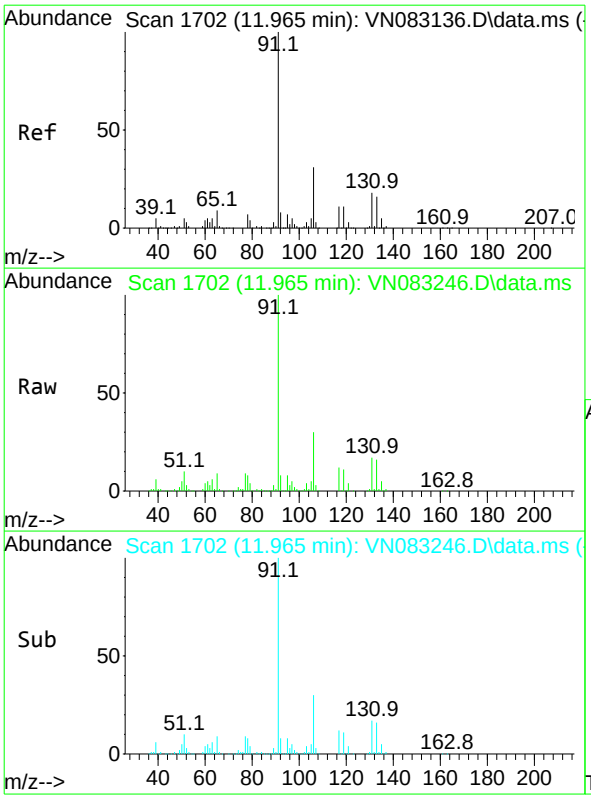


#66
1,1,1,2-Tetrachloroethane
Concen: 50.567 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion:131 Resp: 107111

Ion	Ratio	Lower	Upper
131	100		
133	95.9	47.3	142.0
119	64.6	32.5	97.4

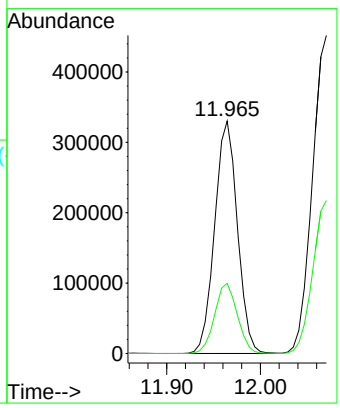




#67
Ethyl Benzene
Concen: 50.506 ug/l
RT: 11.965 min Scan# 17
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 91 Resp: 556470

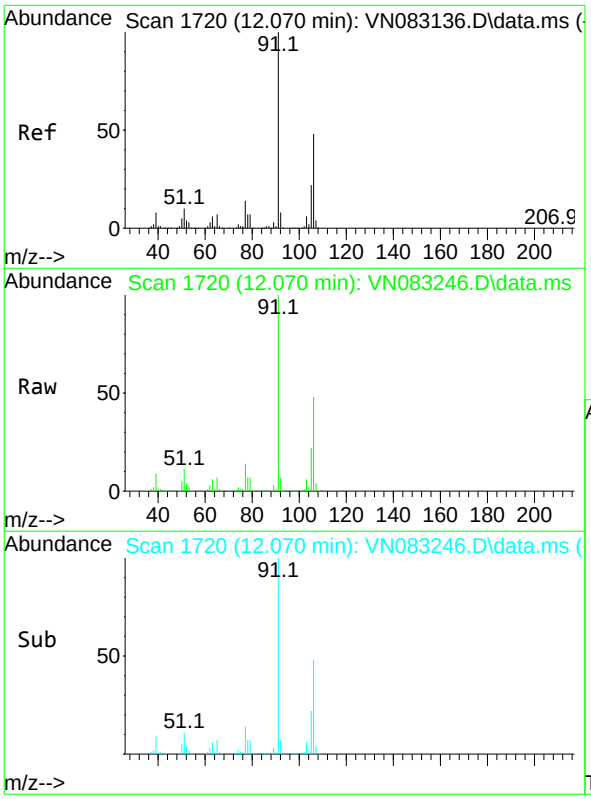
Ion	Ratio	Lower	Upper
91	100		
106	30.2	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

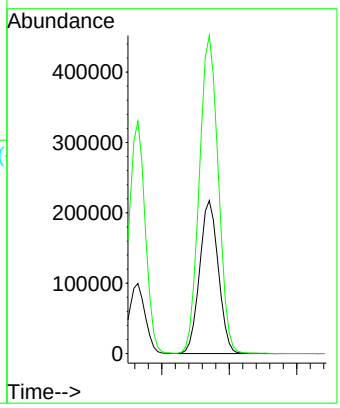
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

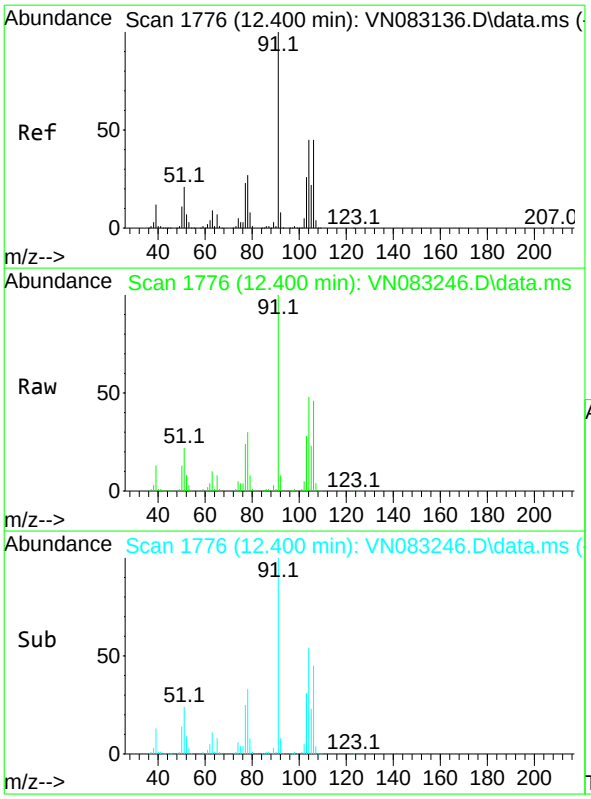


#68
m/p-Xylenes
Concen: 101.492 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion:106 Resp: 418879

Ion	Ratio	Lower	Upper
106	100		
91	210.8	166.1	249.1

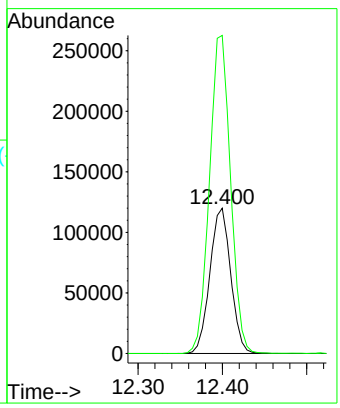




#69
o-Xylene
Concen: 50.624 ug/l
RT: 12.400 min Scan# 17
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion:106 Resp: 206065

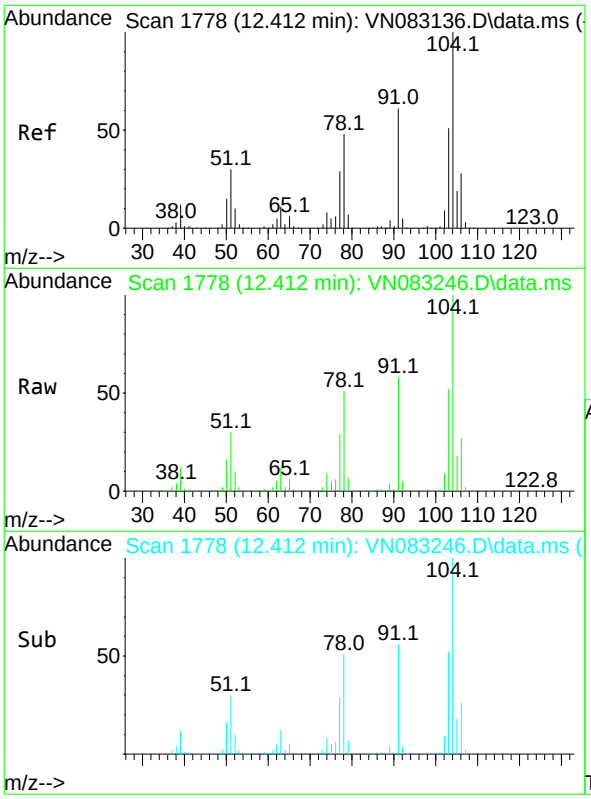
Ion	Ratio	Lower	Upper
106	100		
91	221.4	111.3	333.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

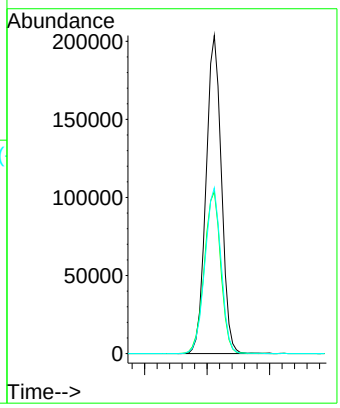
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

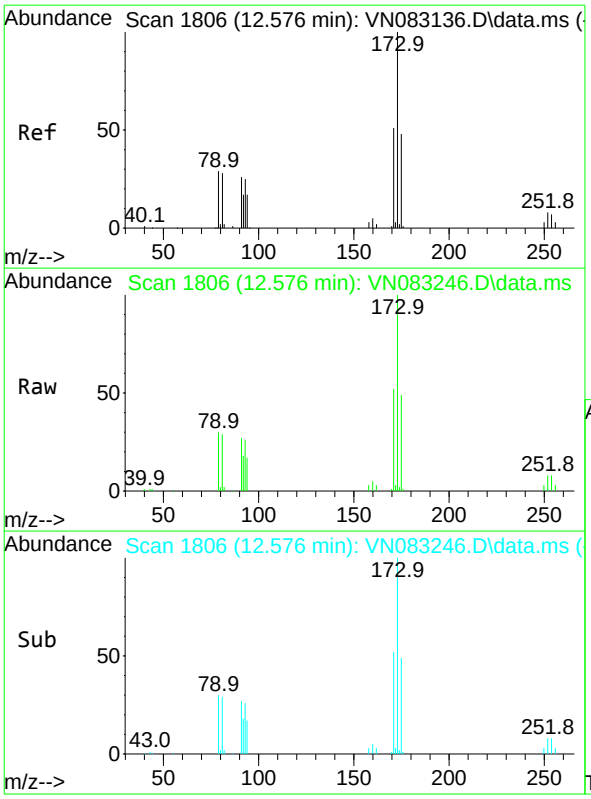


#70
Styrene
Concen: 50.963 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion:104 Resp: 348418

Ion	Ratio	Lower	Upper
104	100		
78	54.4	41.6	62.4
103	54.8	44.0	66.0

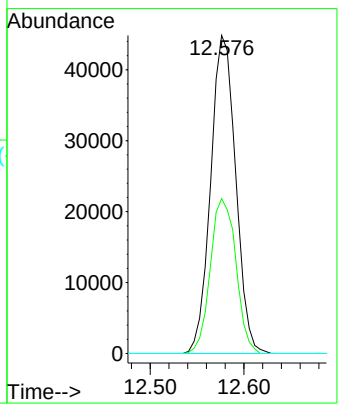




#71
Bromoform
Concen: 51.856 ug/l
RT: 12.576 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion:173 Resp: 83212

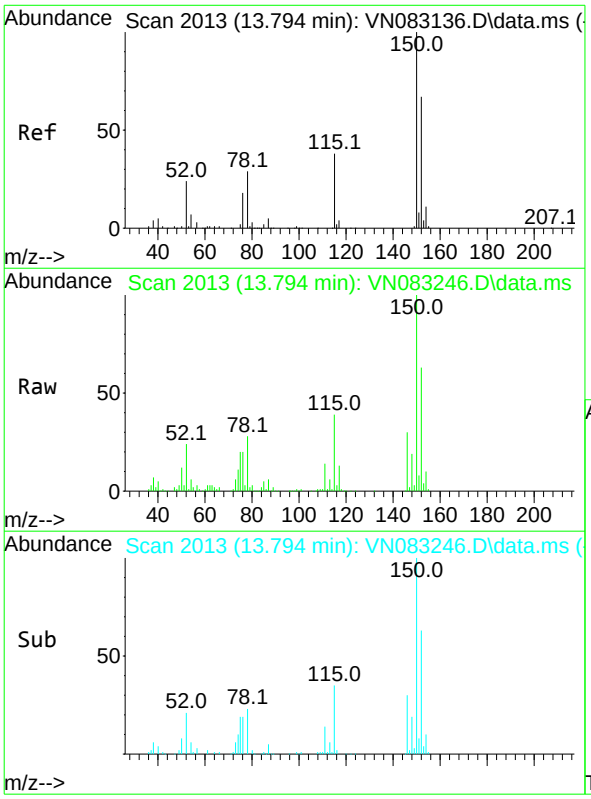
Ion	Ratio	Lower	Upper
173	100		
175	49.7	24.0	72.0
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

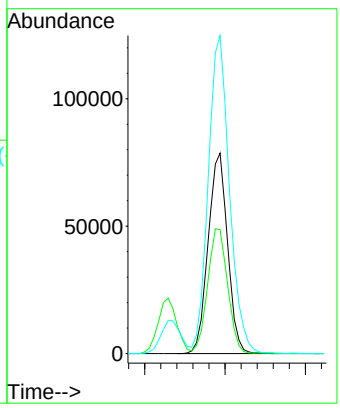
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

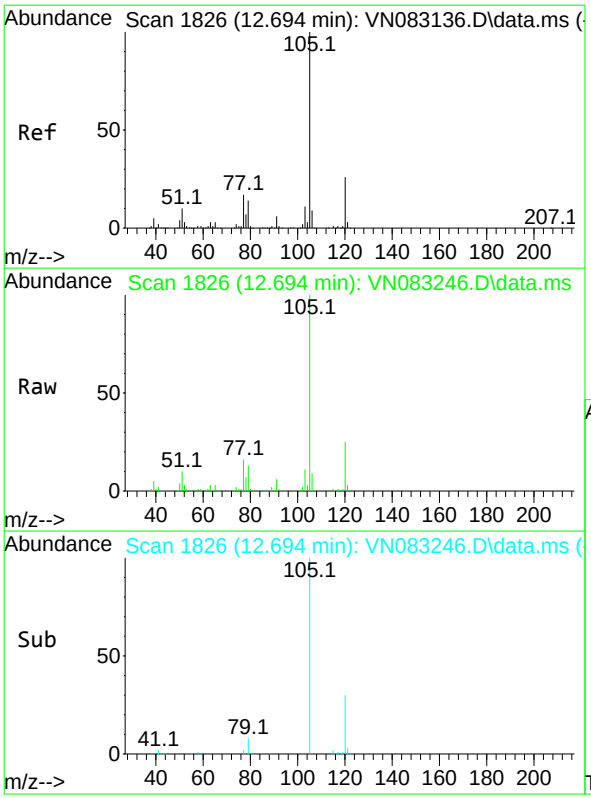


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion:152 Resp: 132143

Ion	Ratio	Lower	Upper
152	100		
115	64.1	30.6	91.6
150	172.8	0.0	348.6

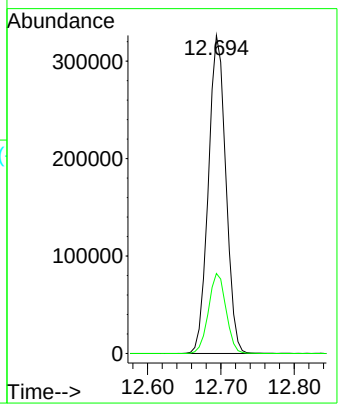




#73
Isopropylbenzene
Concen: 48.882 ug/l
RT: 12.694 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion:105 Resp: 540283

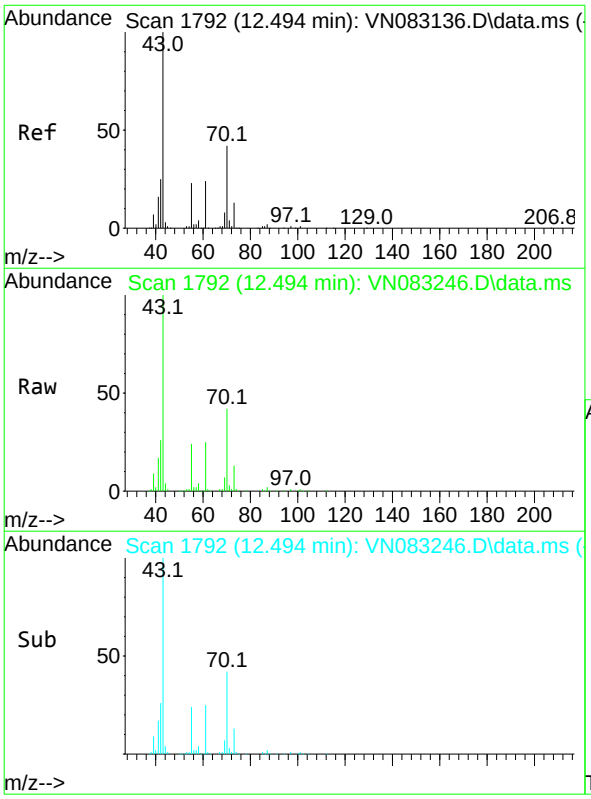
Ion	Ratio	Lower	Upper
105	100		
120	25.2	12.9	38.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

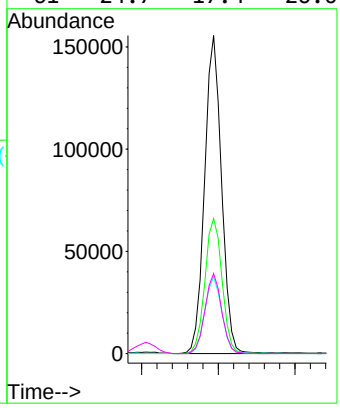
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

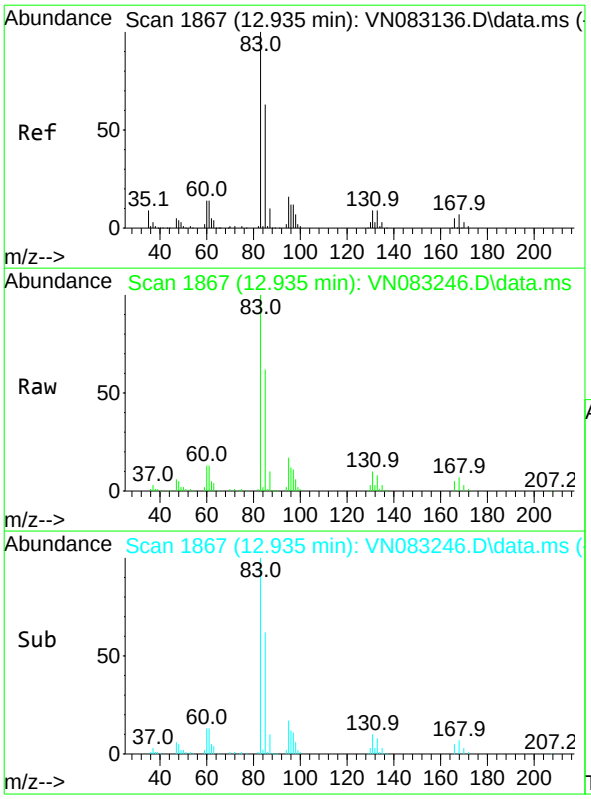


#74
N-amyl acetate
Concen: 44.149 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 43 Resp: 238687

Ion	Ratio	Lower	Upper
43	100		
70	42.9	29.8	44.6
55	24.0	18.7	28.1
61	24.7	17.4	26.0

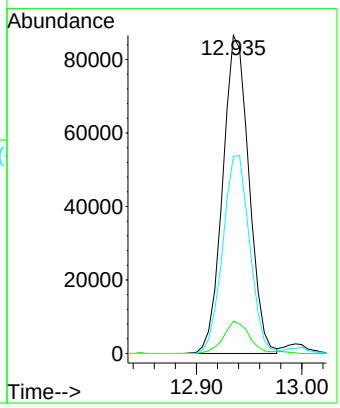




#75
1,1,2,2-Tetrachloroethane
Concen: 47.894 ug/l
RT: 12.935 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 83 Resp: 149722

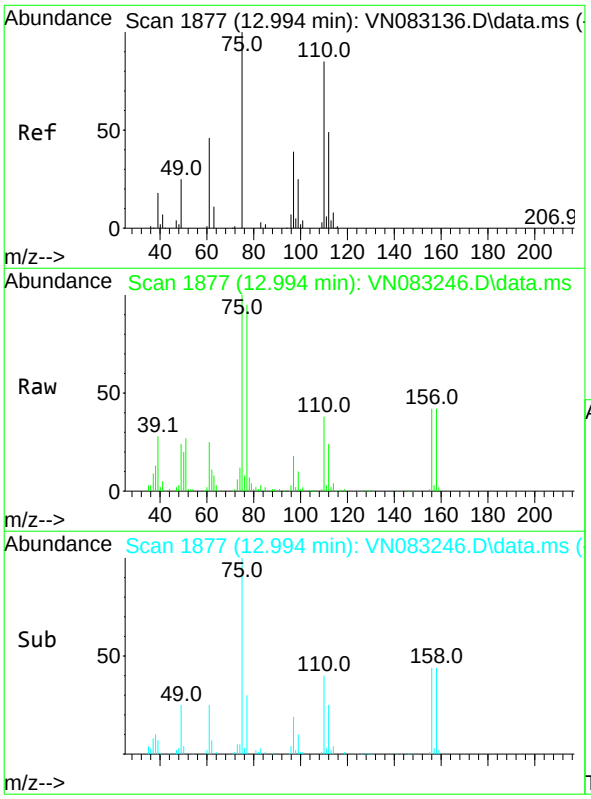
Ion	Ratio	Lower	Upper
83	100		
131	10.4	5.0	14.9
85	64.0	31.9	95.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

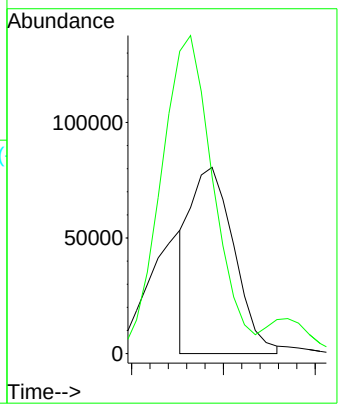
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

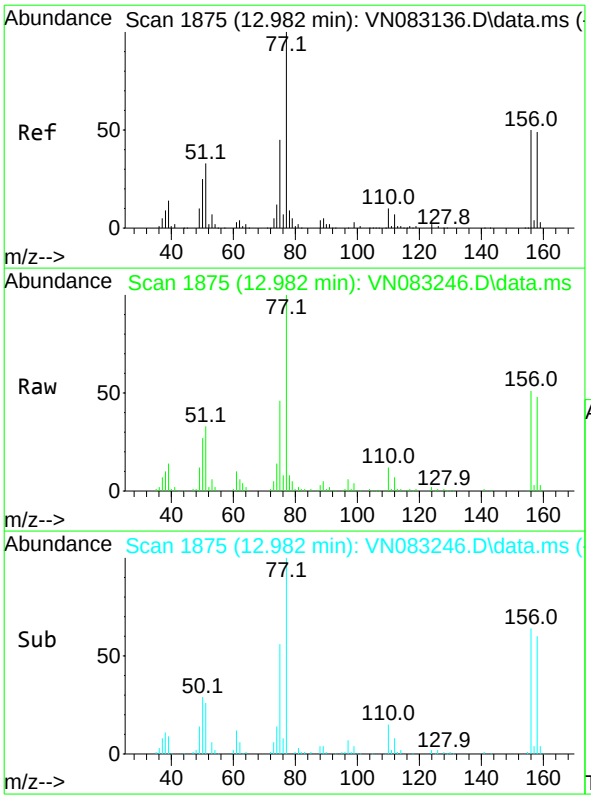


#76
1,2,3-Trichloropropane
Concen: 45.954 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 75 Resp: 133276

Ion	Ratio	Lower	Upper
75	100		
77	205.7	110.9	332.6

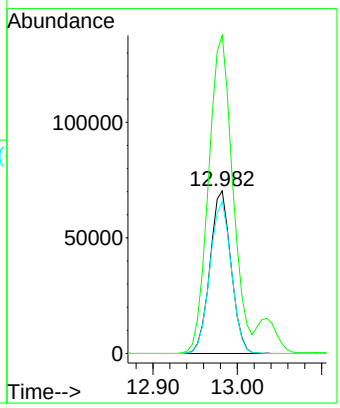




#77
Bromobenzene
Concen: 49.521 ug/l
RT: 12.982 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion:156 Resp: 121587

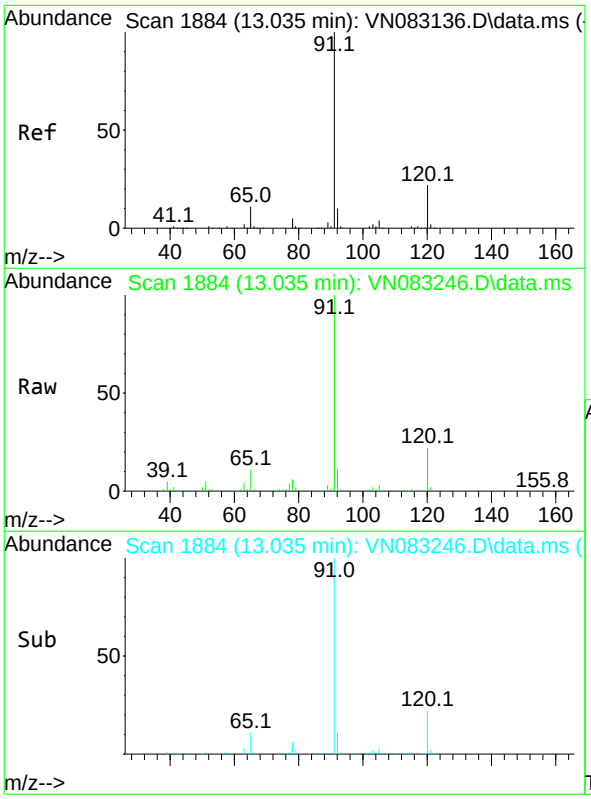
Ion	Ratio	Lower	Upper
156	100		
77	225.5	111.3	333.8
158	95.4	48.3	144.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

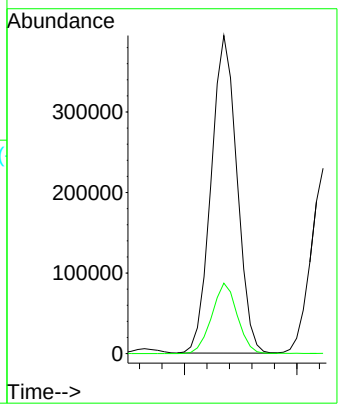
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

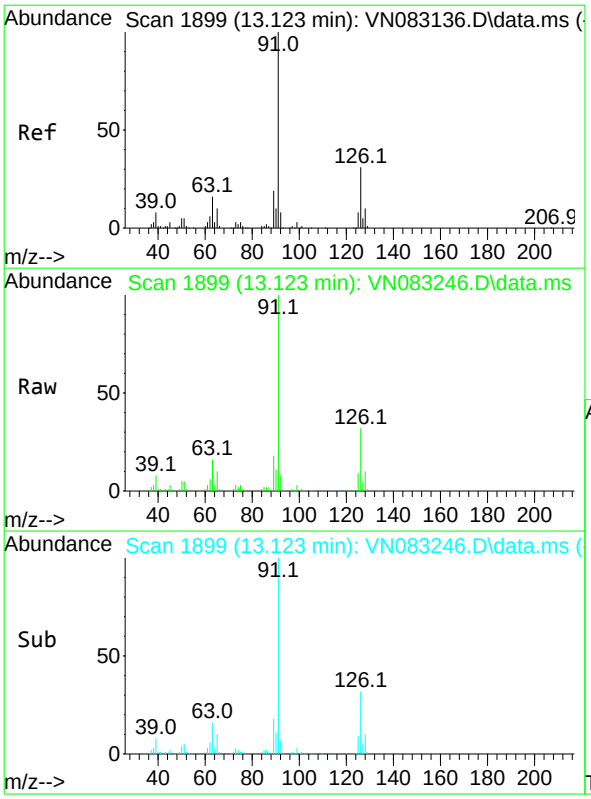


#78
n-propylbenzene
Concen: 49.509 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 91 Resp: 630102

Ion	Ratio	Lower	Upper
91	100		
120	21.8	10.9	32.9

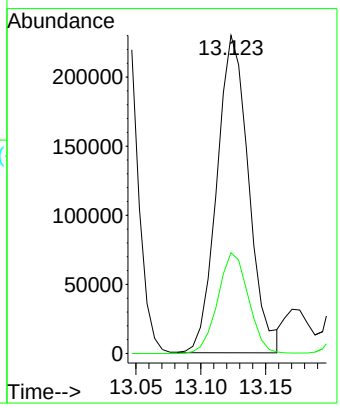




#79
2-Chlorotoluene
Concen: 48.559 ug/l
RT: 13.123 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 91 Resp: 391819

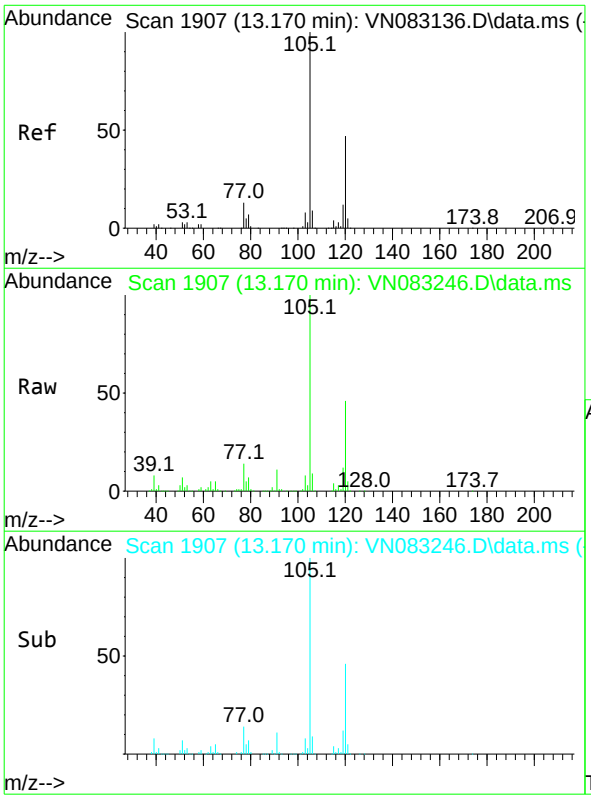
Ion	Ratio	Lower	Upper
91	100		
126	30.6	16.2	48.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

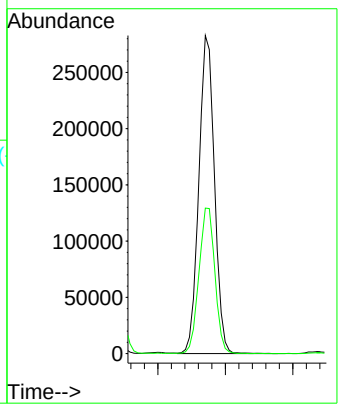
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

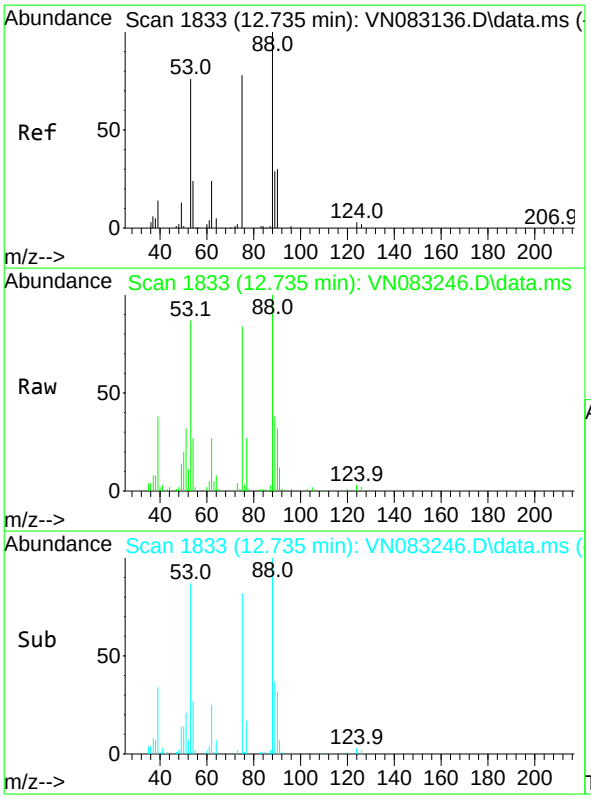


#80
1,3,5-Trimethylbenzene
Concen: 49.074 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion:105 Resp: 454104

Ion	Ratio	Lower	Upper
105	100		
120	46.9	24.3	72.8

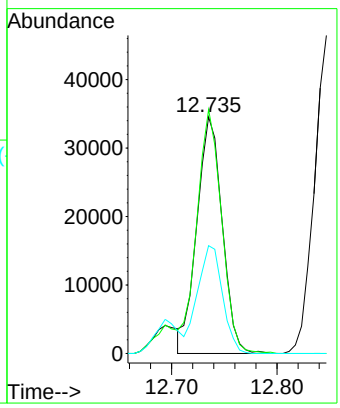




#81
trans-1,4-Dichloro-2-butene
Concen: 43.275 ug/l
RT: 12.735 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 75 Resp: 57698

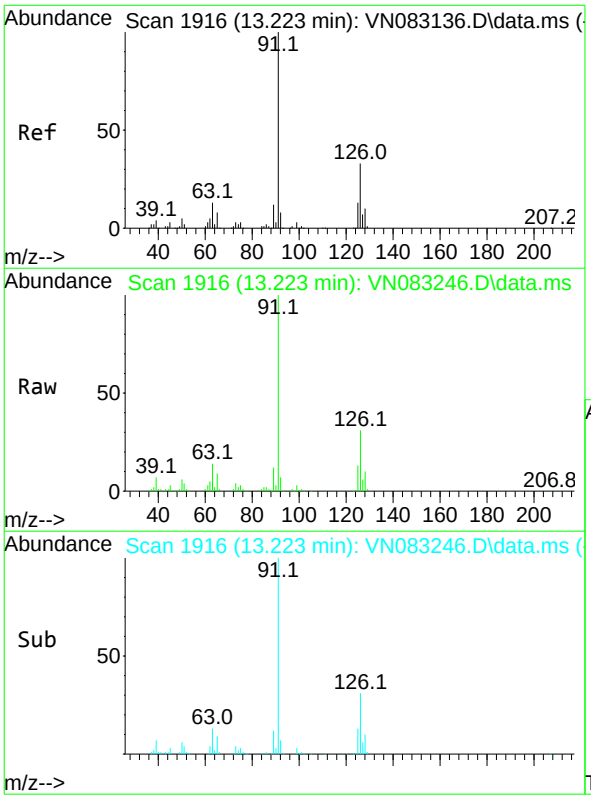
Ion	Ratio	Lower	Upper
75	100		
53	111.9	88.4	132.6
89	44.8	36.3	54.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

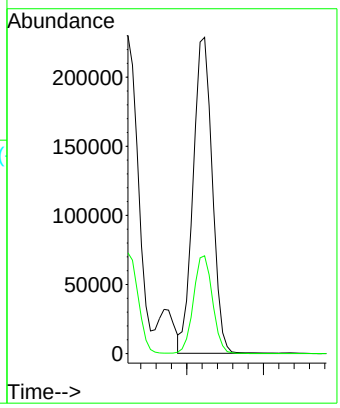
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

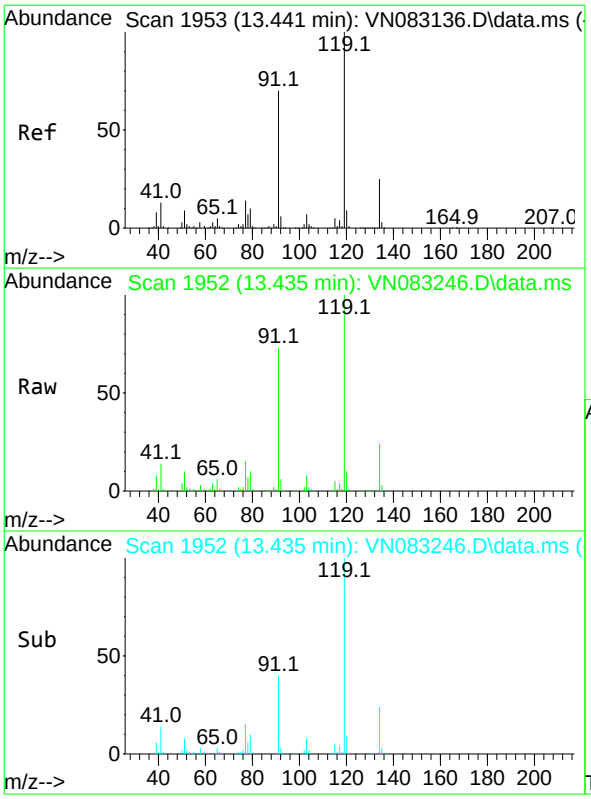


#82
4-Chlorotoluene
Concen: 48.820 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 91 Resp: 395134

Ion	Ratio	Lower	Upper
91	100		
126	31.0	16.2	48.6

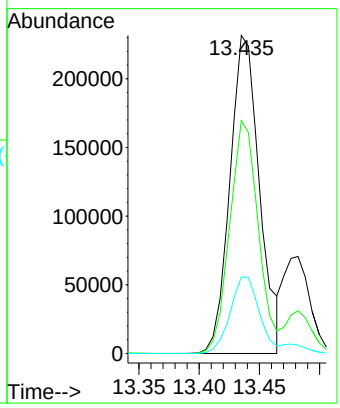




#83
tert-Butylbenzene
Concen: 48.282 ug/l
RT: 13.435 min Scan# 19
Delta R.T. -0.006 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion:119 Resp: 395662

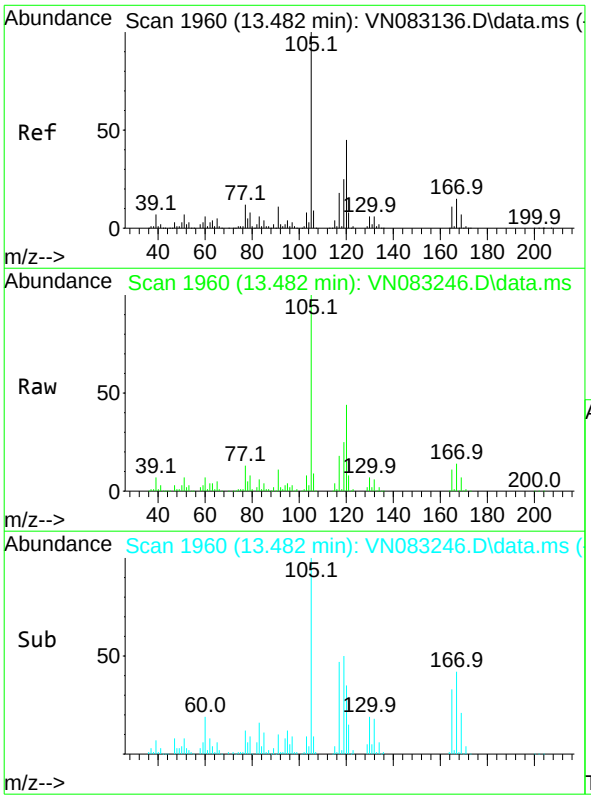
Ion	Ratio	Lower	Upper
119	100		
91	70.7	35.0	105.1
134	26.1	13.3	39.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

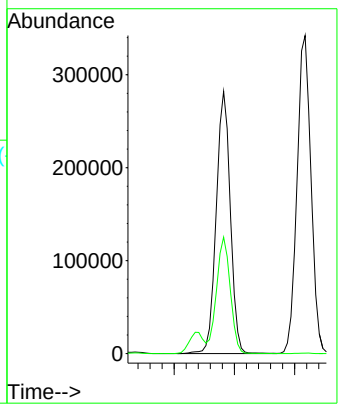
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

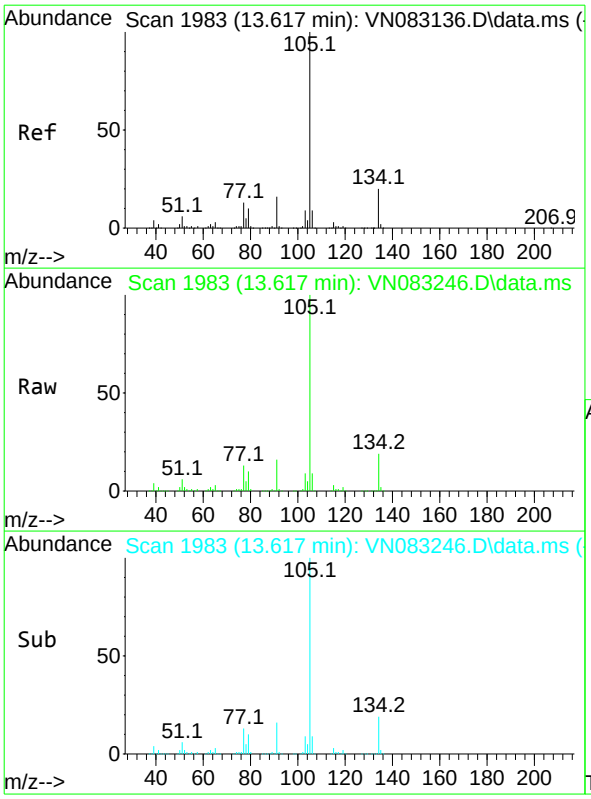


#84
1,2,4-Trimethylbenzene
Concen: 49.111 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion:105 Resp: 457979

Ion	Ratio	Lower	Upper
105	100		
120	43.5	21.9	65.8

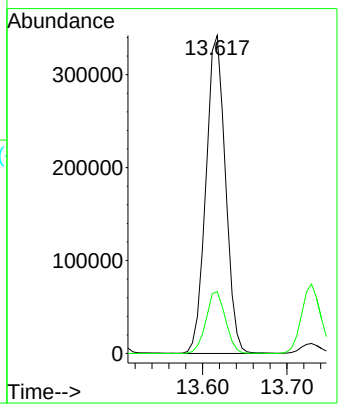




#85
sec-Butylbenzene
Concen: 49.216 ug/l
RT: 13.617 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion:105 Resp: 550323

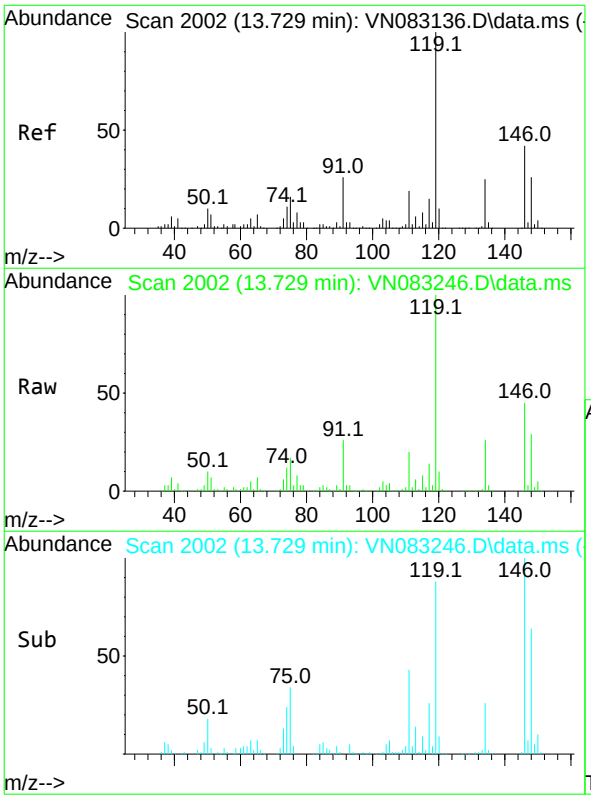
Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.8	29.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

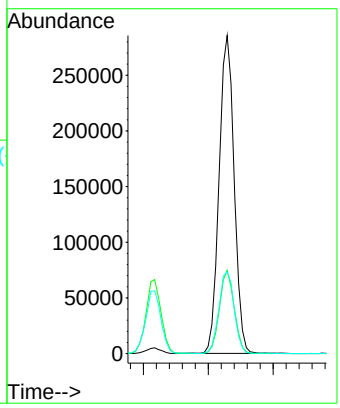
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

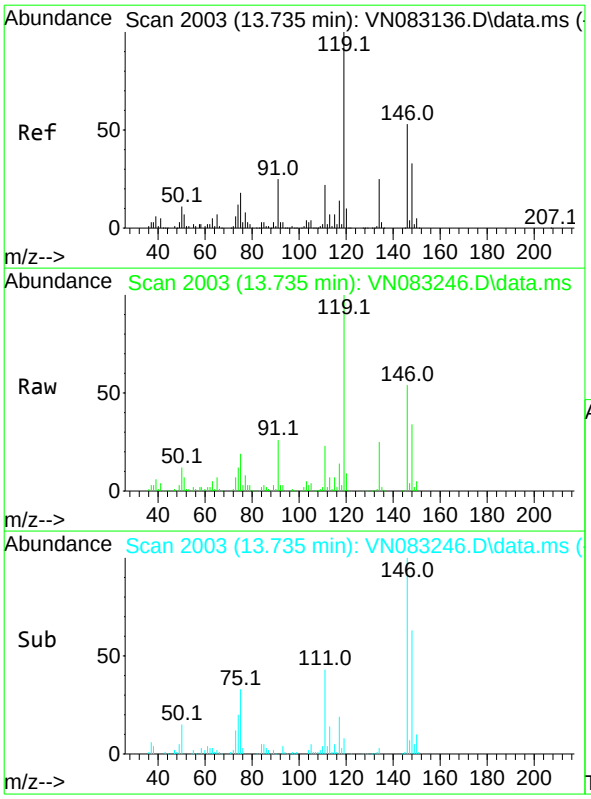


#86
p-Isopropyltoluene
Concen: 49.784 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion:119 Resp: 459639

Ion	Ratio	Lower	Upper
119	100		
134	25.7	13.0	39.0
91	26.3	12.3	36.9

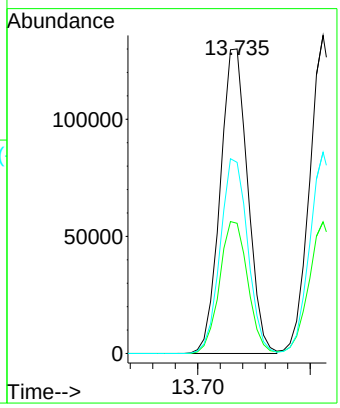




#87
1,3-Dichlorobenzene
Concen: 47.911 ug/l
RT: 13.735 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion:146 Resp: 221346

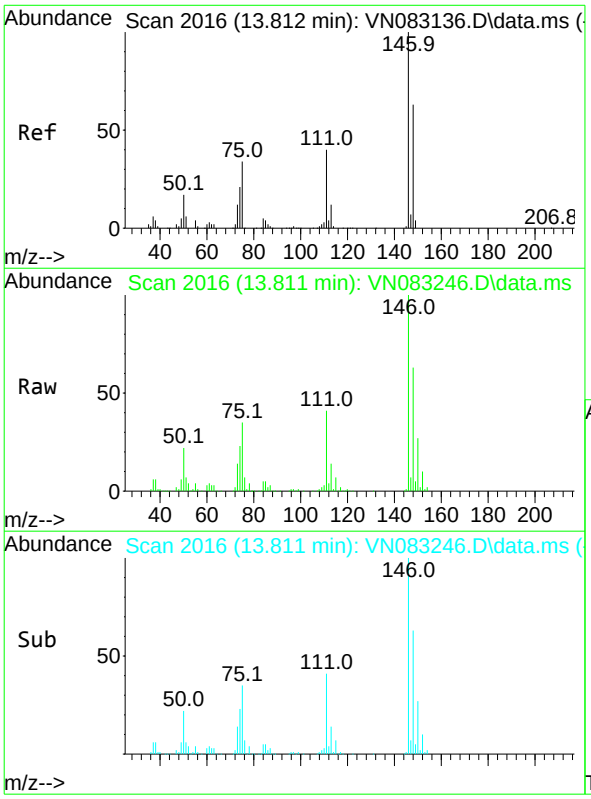
Ion	Ratio	Lower	Upper
146	100		
111	44.3	20.6	61.9
148	63.9	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

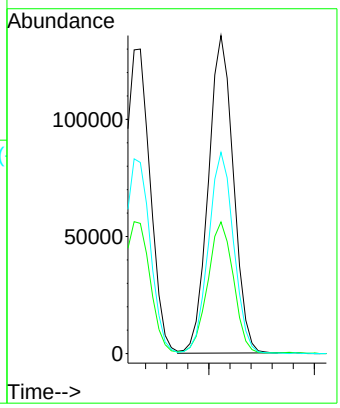
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

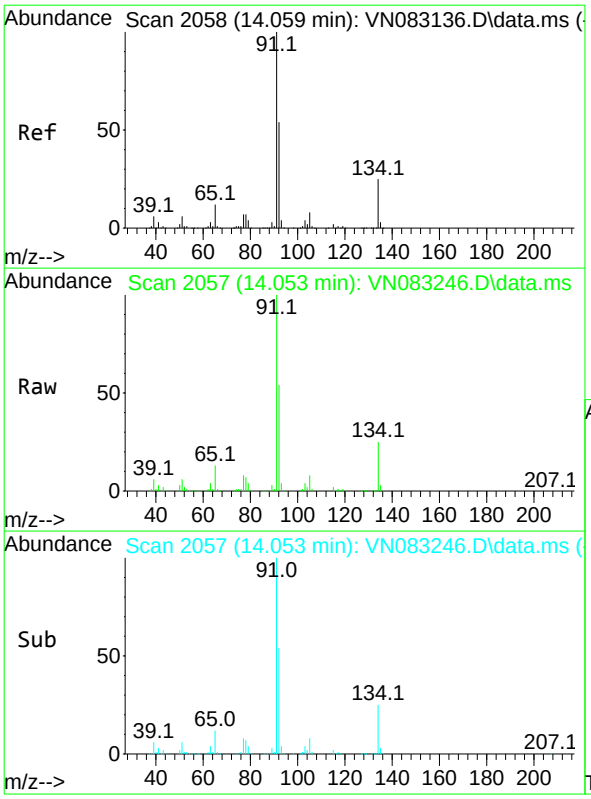


#88
1,4-Dichlorobenzene
Concen: 48.114 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion:146 Resp: 224098

Ion	Ratio	Lower	Upper
146	100		
111	42.2	20.1	60.3
148	63.9	32.2	96.6

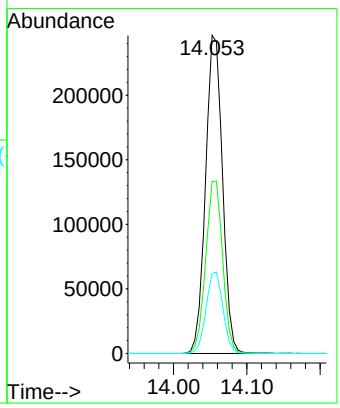




#89
n-Butylbenzene
Concen: 49.469 ug/l
RT: 14.053 min Scan# 20
Delta R.T. -0.006 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 91 Resp: 395753

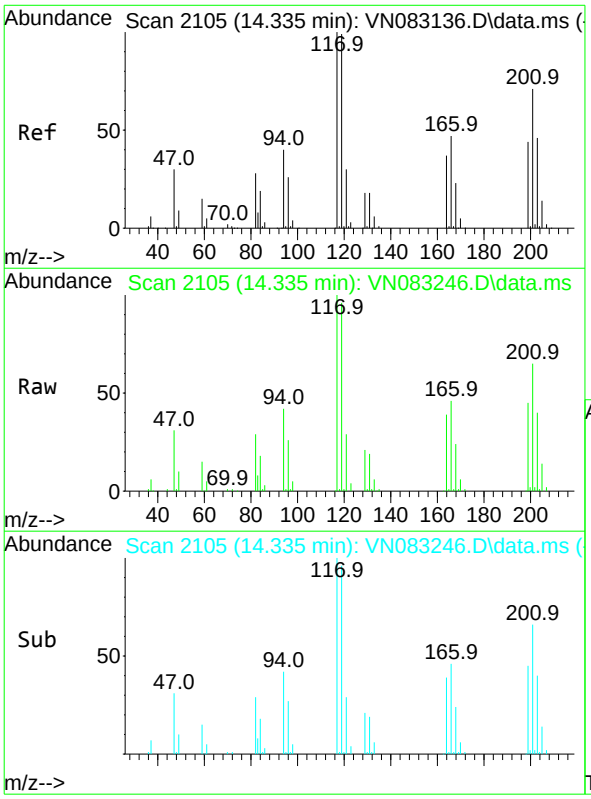
Ion	Ratio	Lower	Upper
91	100		
92	54.3	26.1	78.3
134	25.4	12.1	36.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

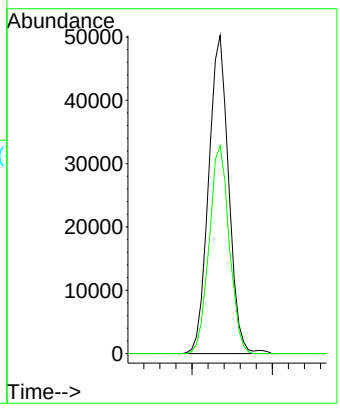
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

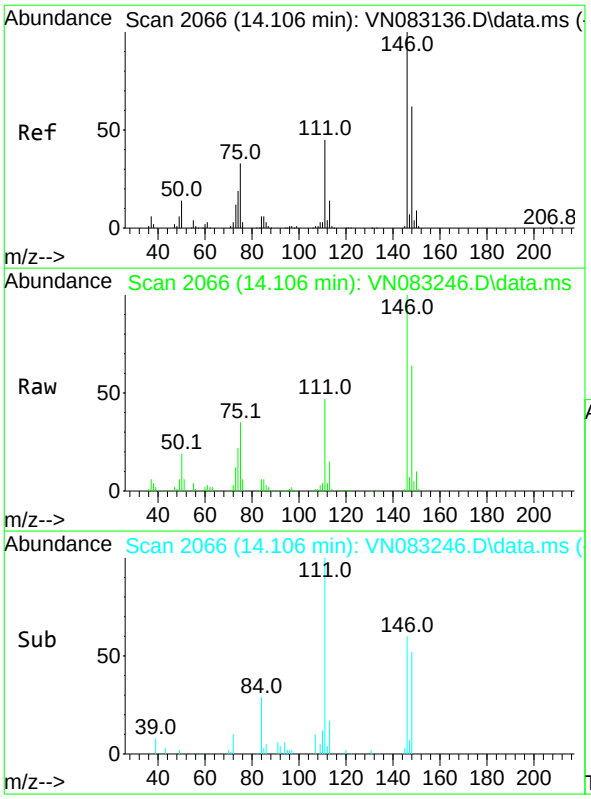


#90
Hexachloroethane
Concen: 48.762 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion:117 Resp: 86978

Ion	Ratio	Lower	Upper
117	100		
201	65.4	35.8	107.3

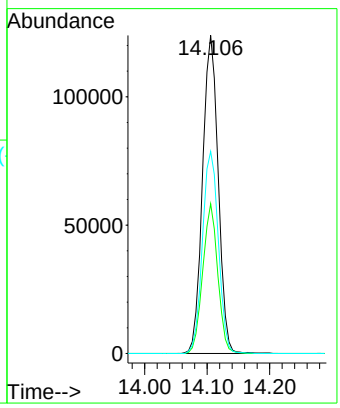




#91
1,2-Dichlorobenzene
Concen: 48.233 ug/l
RT: 14.106 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion:146 Resp: 215635

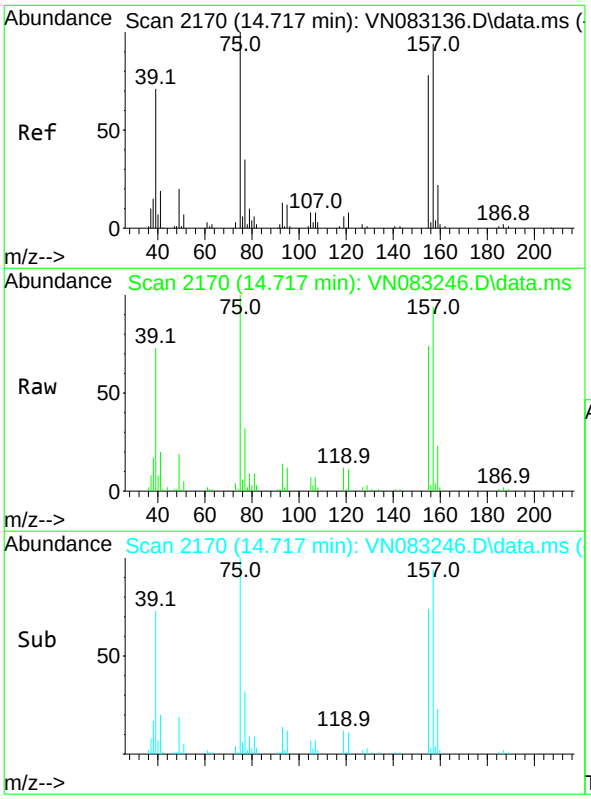
Ion	Ratio	Lower	Upper
146	100		
111	45.1	21.4	64.2
148	64.5	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

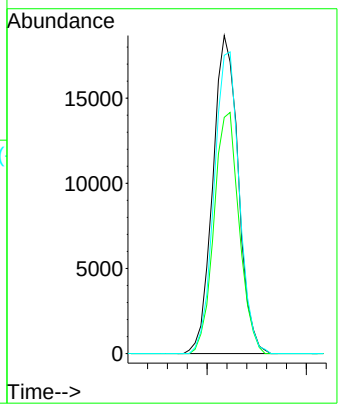
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

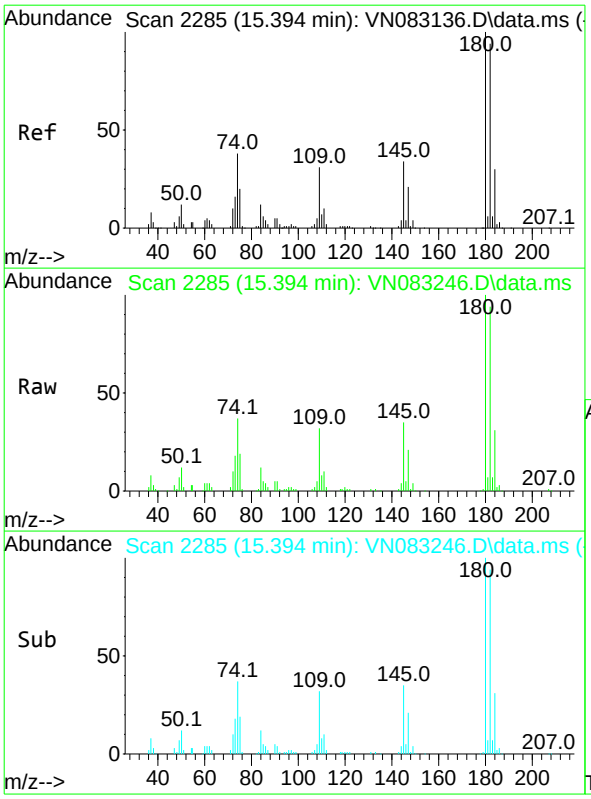


#92
1,2-Dibromo-3-Chloropropane
Concen: 43.939 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion: 75 Resp: 33331

Ion	Ratio	Lower	Upper
75	100		
155	75.0	36.6	109.8
157	93.5	46.9	140.6





#93
1,2,4-Trichlorobenzene
Concen: 48.328 ug/l
RT: 15.394 min Scan# 22
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

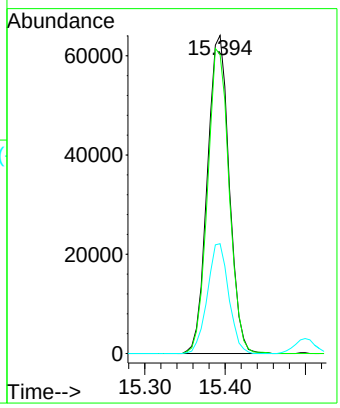
Tgt Ion:180 Resp: 121044

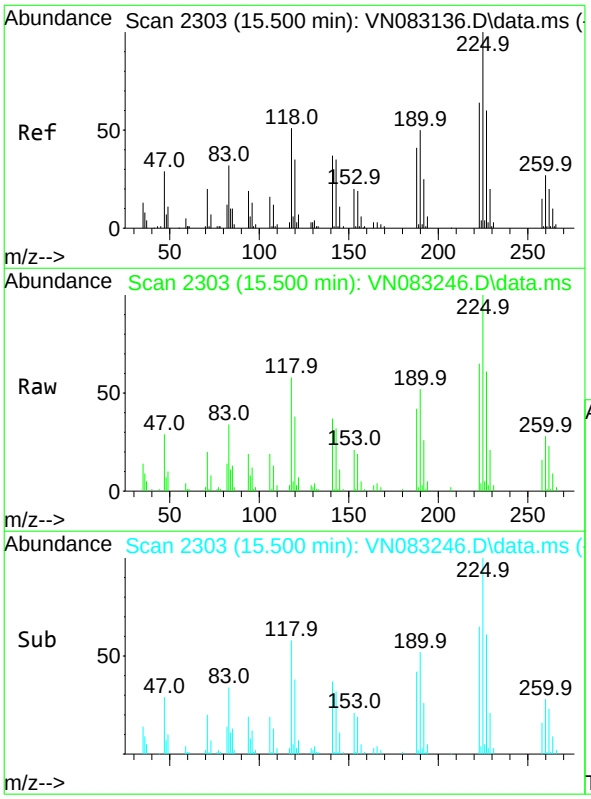
Ion	Ratio	Lower	Upper
180	100		
182	94.5	47.3	141.8
145	33.7	15.7	47.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

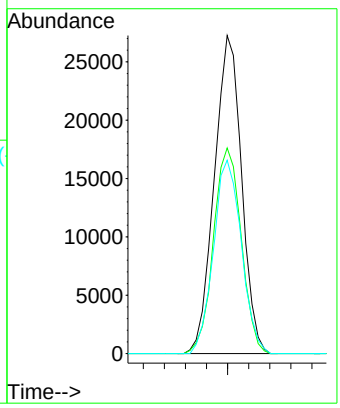


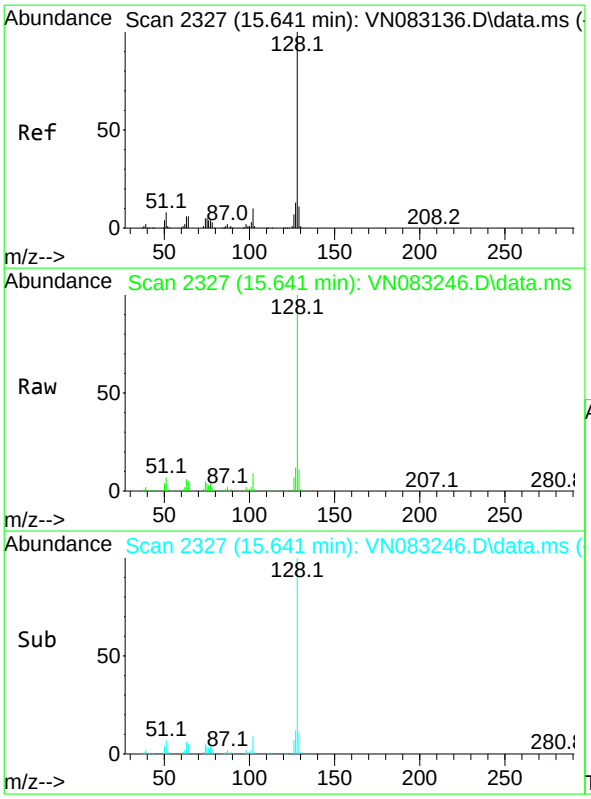


#94
Hexachlorobutadiene
Concen: 43.961 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion:225 Resp: 48967

Ion	Ratio	Lower	Upper
225	100		
223	65.7	31.9	95.7
227	62.3	32.5	97.5





#95
Naphthalene
Concen: 46.239 ug/l
RT: 15.641 min Scan# 23
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

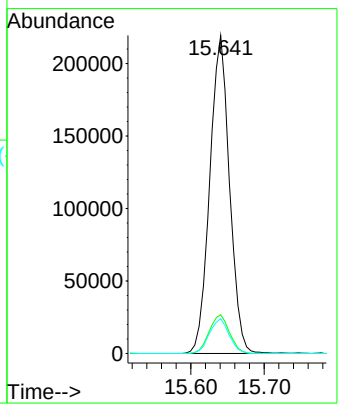
Tgt Ion:128 Resp: 410232

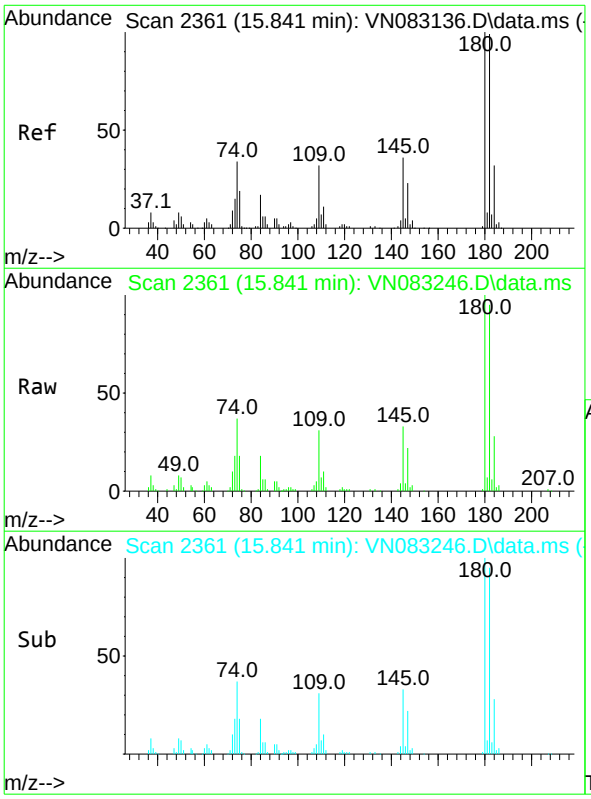
Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.6	16.0
129	10.9	8.6	12.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

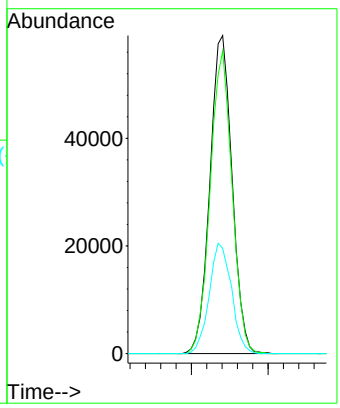




#96
1,2,3-Trichlorobenzene
Concen: 47.881 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. -0.000 min
Lab File: VN083246.D
Acq: 13 Aug 2024 10:18

Tgt Ion:180 Resp: 118663

Ion	Ratio	Lower	Upper
180	100		
182	93.7	48.9	146.8
145	34.8	16.8	50.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083246.D
Acq On : 13 Aug 2024 10:18
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 14 01:37:45 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	87	0.00
2	T	Dichlorodifluoromethane	0.567	0.543	4.2	83	0.00
3	P	Chloromethane	0.581	0.552	5.0	81	0.00
4	C	Vinyl Chloride	0.592	0.583	1.5#	85	0.00
5	T	Bromomethane	0.368	0.364	1.1	89	0.00
6	T	Chloroethane	0.371	0.385	-3.8	94	0.00
7	T	Trichlorofluoromethane	0.979	1.022	-4.4	89	0.00
8	T	Diethyl Ether	0.364	0.356	2.2	84	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.539	0.549	-1.9	87	0.00
10	T	Methyl Iodide	0.710	0.699	1.5	82	0.00
11	T	Tert butyl alcohol	0.148	0.145	2.0	86	-0.01
12	CM	1,1-Dichloroethene	0.554	0.529	4.5#	84	0.00
13	T	Acrolein	0.096	0.091	5.2	78	0.00
14	T	Allyl chloride	1.047	0.883	15.7	82	0.00
15	T	Acrylonitrile	0.304	0.286	5.9	81	0.00
16	T	Acetone	0.278	0.290	-4.3	88	0.00
17	T	Carbon Disulfide	1.622	1.379	15.0	77	0.00
18	T	Methyl Acetate	0.830	0.802	3.4	90	0.00
19	T	Methyl tert-butyl Ether	2.001	2.005	-0.2	86	0.00
20	T	Methylene Chloride	0.641	0.597	6.9	87	0.00
21	T	trans-1,2-Dichloroethene	0.573	0.548	4.4	83	0.00
22	T	Diisopropyl ether	1.969	1.992	-1.2	86	0.00
23	T	Vinyl Acetate	2.018	2.048	-1.5	85	0.00
24	P	1,1-Dichloroethane	1.073	1.109	-3.4	89	0.00
25	T	2-Butanone	0.428	0.402	6.1	82	0.00
26	T	2,2-Dichloropropane	0.997	1.056	-5.9	90	0.00
27	T	cis-1,2-Dichloroethene	0.691	0.688	0.4	87	0.00
28	T	Bromochloromethane	0.439	0.443	-0.9	88	0.00
29	T	Tetrahydrofuran	0.276	0.256	7.2	80	0.00
30	C	Chloroform	1.115	1.176	-5.5#	90	0.00
31	T	Cyclohexane	1.055	0.949	10.0	84	0.00
32	T	1,1,1-Trichloroethane	1.055	1.096	-3.9	89	0.00
33	S	1,2-Dichloroethane-d4	0.712	0.742	-4.2	87	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	88	0.00
35	S	Dibromofluoromethane	0.312	0.317	-1.6	84	0.00
36	T	1,1-Dichloropropene	0.472	0.469	0.6	87	0.00
37	T	Ethyl Acetate	0.529	0.490	7.4	87	0.00
38	T	Carbon Tetrachloride	0.532	0.541	-1.7	88	0.00
39	T	Methylcyclohexane	0.580	0.556	4.1	82	0.00
40	TM	Benzene	1.406	1.424	-1.3	87	0.00
41	T	Methacrylonitrile	0.301	0.279	7.3	87	0.00
42	TM	1,2-Dichloroethane	0.512	0.536	-4.7	91	0.00
43	T	Isopropyl Acetate	1.211	0.885	26.9#	85	0.00
44	TM	Trichloroethene	0.335	0.337	-0.6	87	0.00
45	C	1,2-Dichloropropane	0.334	0.344	-3.0#	88	0.00
46	T	Dibromomethane	0.239	0.250	-4.6	88	0.00
47	T	Bromodichloromethane	0.537	0.549	-2.2	90	0.00
48	T	Methyl methacrylate	0.437	0.412	5.7	86	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083246.D
Acq On : 13 Aug 2024 10:18
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 14 01:37:45 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	75	0.00
50	S	Toluene-d8	1.164	1.180	-1.4	83	0.00
51	T	4-Methyl-2-Pentanone	0.500	0.492	1.6	84	0.00
52	CM	Toluene	0.889	0.901	-1.3#	86	0.00
53	T	t-1,3-Dichloropropene	0.551	0.581	-5.4	86	0.00
54	T	cis-1,3-Dichloropropene	0.586	0.599	-2.2	87	0.00
55	T	1,1,2-Trichloroethane	0.318	0.334	-5.0	88	0.00
56	T	Ethyl methacrylate	0.600	0.596	0.7	84	0.00
57	T	1,3-Dichloropropane	0.568	0.598	-5.3	89	0.00
58	T	2-Chloroethyl Vinyl ether	0.254	0.263	-3.5	89	0.00
59	T	2-Hexanone	0.387	0.369	4.7	82	0.00
60	T	Dibromochloromethane	0.385	0.413	-7.3	88	0.00
61	T	1,2-Dibromoethane	0.335	0.344	-2.7	87	0.00
62	S	4-Bromofluorobenzene	0.454	0.461	-1.5	83	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
64	T	Tetrachloroethene	0.331	0.327	1.2	86	0.00
65	PM	Chlorobenzene	1.105	1.113	-0.7	87	0.00
66	T	1,1,1,2-Tetrachloroethane	0.390	0.394	-1.0	88	0.00
67	C	Ethyl Benzene	2.027	2.048	-1.0#	88	0.00
68	T	m/p-Xylenes	0.759	0.771	-1.6	88	0.00
69	T	o-Xylene	0.749	0.758	-1.2	88	0.00
70	T	Styrene	1.258	1.282	-1.9	86	0.00
71	P	Bromoform	0.295	0.306	-3.7	86	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	92	0.00
73	T	Isopropylbenzene	4.182	4.089	2.2	89	0.00
74	T	N-amyl acetate	2.046	1.806	11.7	83	0.00
75	P	1,1,2,2-Tetrachloroethane	1.183	1.133	4.2	89	0.00
76	T	1,2,3-Trichloropropane	1.097	1.009	8.0	87	0.00
77	T	Bromobenzene	0.929	0.920	1.0	88	0.00
78	T	n-propylbenzene	4.816	4.768	1.0	88	0.00
79	T	2-Chlorotoluene	3.053	2.965	2.9	89	0.00
80	T	1,3,5-Trimethylbenzene	3.501	3.436	1.9	88	0.00
81	T	trans-1,4-Dichloro-2-butene	0.504	0.437	13.3	82	0.00
82	T	4-Chlorotoluene	3.062	2.990	2.4	89	0.00
83	T	tert-Butylbenzene	3.101	2.994	3.5	87	0.00
84	T	1,2,4-Trimethylbenzene	3.529	3.466	1.8	87	0.00
85	T	sec-Butylbenzene	4.231	4.165	1.6	87	0.00
86	T	p-Isopropyltoluene	3.493	3.478	0.4	87	0.00
87	T	1,3-Dichlorobenzene	1.748	1.675	4.2	87	0.00
88	T	1,4-Dichlorobenzene	1.762	1.696	3.7	88	0.00
89	T	n-Butylbenzene	3.027	2.995	1.1	86	0.00
90	T	Hexachloroethane	0.675	0.658	2.5	88	0.00
91	T	1,2-Dichlorobenzene	1.692	1.632	3.5	88	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.287	0.252	12.2	83	0.00
93	T	1,2,4-Trichlorobenzene	0.948	0.916	3.4	86	0.00
94	T	Hexachlorobutadiene	0.421	0.371	11.9	83	0.00
95	T	Naphthalene	3.357	3.104	7.5	82	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083246.D
Acq On : 13 Aug 2024 10:18
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 14 01:37:45 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	0.898	4.3	86	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083246.D
Acq On : 13 Aug 2024 10:18
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 14 01:37:45 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	87	0.00
2	T	Dichlorodifluoromethane	50.000	47.864	4.3	83	0.00
3	P	Chloromethane	50.000	47.575	4.8	81	0.00
4	C	Vinyl Chloride	50.000	49.180	1.6#	85	0.00
5	T	Bromomethane	50.000	49.518	1.0	89	0.00
6	T	Chloroethane	50.000	51.904	-3.8	94	0.00
7	T	Trichlorofluoromethane	50.000	52.219	-4.4	89	0.00
8	T	Diethyl Ether	50.000	48.909	2.2	84	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	50.881	-1.8	87	0.00
10	T	Methyl Iodide	50.000	49.216	1.6	82	0.00
11	T	Tert butyl alcohol	250.000	244.559	2.2	86	-0.01
12	CM	1,1-Dichloroethene	50.000	47.701	4.6#	84	0.00
13	T	Acrolein	250.000	236.250	5.5	78	0.00
14	T	Allyl chloride	50.000	42.169	15.7	82	0.00
15	T	Acrylonitrile	250.000	235.198	5.9	81	0.00
16	T	Acetone	250.000	260.346	-4.1	88	0.00
17	T	Carbon Disulfide	50.000	42.513	15.0	77	0.00
18	T	Methyl Acetate	50.000	48.345	3.3	90	0.00
19	T	Methyl tert-butyl Ether	50.000	50.110	-0.2	86	0.00
20	T	Methylene Chloride	50.000	46.546	6.9	87	0.00
21	T	trans-1,2-Dichloroethene	50.000	47.842	4.3	83	0.00
22	T	Diisopropyl ether	50.000	50.588	-1.2	86	0.00
23	T	Vinyl Acetate	250.000	253.661	-1.5	85	0.00
24	P	1,1-Dichloroethane	50.000	51.674	-3.3	89	0.00
25	T	2-Butanone	250.000	234.960	6.0	82	0.00
26	T	2,2-Dichloropropane	50.000	52.961	-5.9	90	0.00
27	T	cis-1,2-Dichloroethene	50.000	49.779	0.4	87	0.00
28	T	Bromochloromethane	50.000	50.555	-1.1	88	0.00
29	T	Tetrahydrofuran	250.000	231.559	7.4	80	0.00
30	C	Chloroform	50.000	52.728	-5.5#	90	0.00
31	T	Cyclohexane	50.000	44.970	10.1	84	0.00
32	T	1,1,1-Trichloroethane	50.000	51.945	-3.9	89	0.00
33	S	1,2-Dichloroethane-d4	50.000	52.153	-4.3	87	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	88	0.00
35	S	Dibromofluoromethane	50.000	50.737	-1.5	84	0.00
36	T	1,1-Dichloropropene	50.000	49.623	0.8	87	0.00
37	T	Ethyl Acetate	50.000	46.356	7.3	87	0.00
38	T	Carbon Tetrachloride	50.000	50.883	-1.8	88	0.00
39	T	Methylcyclohexane	50.000	47.969	4.1	82	0.00
40	TM	Benzene	50.000	50.617	-1.2	87	0.00
41	T	Methacrylonitrile	50.000	46.379	7.2	87	0.00
42	TM	1,2-Dichloroethane	50.000	52.326	-4.7	91	0.00
43	T	Isopropyl Acetate	50.000	48.153	3.7	85	0.00
44	TM	Trichloroethene	50.000	50.366	-0.7	87	0.00
45	C	1,2-Dichloropropane	50.000	51.570	-3.1#	88	0.00
46	T	Dibromomethane	50.000	52.392	-4.8	88	0.00
47	T	Bromodichloromethane	50.000	51.206	-2.4	90	0.00
48	T	Methyl methacrylate	50.000	47.166	5.7	86	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083246.D
Acq On : 13 Aug 2024 10:18
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 14 01:37:45 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	874.255	12.6	75	0.00
50	S	Toluene-d8	50.000	50.663	-1.3	83	0.00
51	T	4-Methyl-2-Pentanone	250.000	246.005	1.6	84	0.00
52	CM	Toluene	50.000	50.713	-1.4#	86	0.00
53	T	t-1,3-Dichloropropene	50.000	52.665	-5.3	86	0.00
54	T	cis-1,3-Dichloropropene	50.000	51.111	-2.2	87	0.00
55	T	1,1,2-Trichloroethane	50.000	52.435	-4.9	88	0.00
56	T	Ethyl methacrylate	50.000	49.645	0.7	84	0.00
57	T	1,3-Dichloropropane	50.000	52.717	-5.4	89	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	258.946	-3.6	89	0.00
59	T	2-Hexanone	250.000	238.595	4.6	82	0.00
60	T	Dibromochloromethane	50.000	53.622	-7.2	88	0.00
61	T	1,2-Dibromoethane	50.000	51.342	-2.7	87	0.00
62	S	4-Bromofluorobenzene	50.000	50.813	-1.6	83	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	90	0.00
64	T	Tetrachloroethene	50.000	49.447	1.1	86	0.00
65	PM	Chlorobenzene	50.000	50.387	-0.8	87	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	50.567	-1.1	88	0.00
67	C	Ethyl Benzene	50.000	50.506	-1.0#	88	0.00
68	T	m/p-Xylenes	100.000	101.492	-1.5	88	0.00
69	T	o-Xylene	50.000	50.624	-1.2	88	0.00
70	T	Styrene	50.000	50.963	-1.9	86	0.00
71	P	Bromoform	50.000	51.856	-3.7	86	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	92	0.00
73	T	Isopropylbenzene	50.000	48.882	2.2	89	0.00
74	T	N-amyl acetate	50.000	44.149	11.7	83	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	47.894	4.2	89	0.00
76	T	1,2,3-Trichloropropane	50.000	45.954	8.1	87	0.00
77	T	Bromobenzene	50.000	49.521	1.0	88	0.00
78	T	n-propylbenzene	50.000	49.509	1.0	88	0.00
79	T	2-Chlorotoluene	50.000	48.559	2.9	89	0.00
80	T	1,3,5-Trimethylbenzene	50.000	49.074	1.9	88	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	43.275	13.5	82	0.00
82	T	4-Chlorotoluene	50.000	48.820	2.4	89	0.00
83	T	tert-Butylbenzene	50.000	48.282	3.4	87	0.00
84	T	1,2,4-Trimethylbenzene	50.000	49.111	1.8	87	0.00
85	T	sec-Butylbenzene	50.000	49.216	1.6	87	0.00
86	T	p-Isopropyltoluene	50.000	49.784	0.4	87	0.00
87	T	1,3-Dichlorobenzene	50.000	47.911	4.2	87	0.00
88	T	1,4-Dichlorobenzene	50.000	48.114	3.8	88	0.00
89	T	n-Butylbenzene	50.000	49.469	1.1	86	0.00
90	T	Hexachloroethane	50.000	48.762	2.5	88	0.00
91	T	1,2-Dichlorobenzene	50.000	48.233	3.5	88	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	43.939	12.1	83	0.00
93	T	1,2,4-Trichlorobenzene	50.000	48.328	3.3	86	0.00
94	T	Hexachlorobutadiene	50.000	43.961	12.1	83	0.00
95	T	Naphthalene	50.000	46.239	7.5	82	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083246.D
Acq On : 13 Aug 2024 10:18
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 14 01:37:45 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	47.881	4.2	86	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.: P3429 SAS No.: P3429 SDG No.: P3429

Instrument ID: MSVOA_N Calibration Date/Time: 08/14/2024 12:41

Lab File ID: VN083295.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	0.535		-5.64	20
Chloromethane	0.581	0.541	0.1	-6.89	20
Vinyl Chloride	0.592	0.580		-2.03	20
Bromomethane	0.368	0.326		-11.41	20
1,1,2-Trichlorotrifluoroethane	0.539	0.554		2.78	20
Acetone	0.278	0.244		-12.23	20
Carbon Disulfide	1.622	1.333		-17.82	20
Methyl tert-butyl Ether	2.001	2.005		0.2	20
Methylene Chloride	0.641	0.596		-7.02	20
trans-1,2-Dichloroethene	0.573	0.543		-5.24	20
Cyclohexane	1.055	0.966		-8.44	20
2-Butanone	0.428	0.402		-6.07	20
Carbon Tetrachloride	0.532	0.548		3.01	20
cis-1,2-Dichloroethene	0.691	0.680		-1.59	20
Chloroform	1.115	1.186		6.37	20
1,1,1-Trichloroethane	1.055	1.088		3.13	20
Methylcyclohexane	0.580	0.559		-3.62	20
Benzene	1.406	1.433		1.92	20
1,2-Dichloroethane	0.512	0.547		6.84	20
Trichloroethene	0.335	0.341		1.79	20
Bromodichloromethane	0.537	0.551		2.61	20
Toluene	0.889	0.921		3.6	20
1,1,2-Trichloroethane	0.318	0.338		6.29	20
Dibromochloromethane	0.385	0.416		8.05	20
Tetrachloroethene	0.331	0.333		0.6	20
Chlorobenzene	1.105	1.119	0.3	1.27	20
Ethyl Benzene	2.027	2.073		2.27	20
m/p-Xylenes	0.759	0.775		2.11	20
o-Xylene	0.749	0.756		0.94	20
Isopropylbenzene	4.182	4.049		-3.18	20
1,4-Dichlorobenzene	1.762	1.724		-2.16	20
1,2-Dichlorobenzene	1.692	1.685		-0.41	20
1,2-Dichloroethane-d4	0.712	0.742		4.21	20
Dibromofluoromethane	0.312	0.320		2.56	20
Toluene-d8	1.164	1.193		2.49	20
4-Bromofluorobenzene	0.454	0.479		5.51	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\VN081424\
Data File : VN083295.D
Acq On : 14 Aug 2024 12:41
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 14 23:14:20 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 :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	8.224	168	165534	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	9.100	114	282606	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.865	117	250996	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	122669	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.582	65	122826	52.129	ug/l		0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.260%				
35) Dibromofluoromethane	8.171	113	90305	51.194	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.380%				
50) Toluene-d8	10.565	98	337123	51.234	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.460%				
62) 4-Bromofluorobenzene	12.853	95	135336	52.757	ug/l		0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.520%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.124	85	88523	47.158	ug/l		98
3) Chloromethane	2.365	50	89486	46.562	ug/l		96
4) Vinyl Chloride	2.512	62	96057	48.983	ug/l		96
5) Bromomethane	2.942	94	53952	44.339	ug/l		100
6) Chloroethane	3.112	64	61671	50.266	ug/l		97
7) Trichlorofluoromethane	3.495	101	169822	52.421	ug/l		97
8) Diethyl Ether	3.959	74	57654	47.827	ug/l		87
9) 1,1,2-Trichlorotrifluo...	4.365	101	91744	51.366	ug/l		99
10) Methyl Iodide	4.583	142	96810	41.205	ug/l		93
11) Tert butyl alcohol	5.524	59	122885	250.960	ug/l		99
12) 1,1-Dichloroethene	4.342	96	86237	46.996	ug/l		87
13) Acrolein	4.183	56	76414	239.443	ug/l		98
14) Allyl chloride	5.024	41	159911	46.115	ug/l		89
15) Acrylonitrile	5.718	53	244473	242.760	ug/l		98
16) Acetone	4.424	43	202275	219.394	ug/l		99
17) Carbon Disulfide	4.706	76	220684	41.102	ug/l		99
18) Methyl Acetate	5.030	43	136868	49.826	ug/l		92
19) Methyl tert-butyl Ether	5.794	73	331920	50.114	ug/l		99
20) Methylene Chloride	5.277	84	98695	46.513	ug/l	#	78
21) trans-1,2-Dichloroethene	5.783	96	89928	47.417	ug/l		90
22) Diisopropyl ether	6.677	45	332029	50.939	ug/l		98
23) Vinyl Acetate	6.600	43	1823939	273.001	ug/l		96
24) 1,1-Dichloroethane	6.571	63	181204	51.002	ug/l		100
25) 2-Butanone	7.482	43	332401	234.803	ug/l		92
26) 2,2-Dichloropropane	7.488	77	154672	46.878	ug/l		98
27) cis-1,2-Dichloroethene	7.488	96	112641	49.219	ug/l		94
28) Bromochloromethane	7.812	49	72630	50.022	ug/l		85
29) Tetrahydrofuran	7.841	42	212863	232.605	ug/l	#	87
30) Chloroform	7.965	83	196262	53.171	ug/l		98
31) Cyclohexane	8.259	56	159977	45.816	ug/l		98
32) 1,1,1-Trichloroethane	8.171	97	180121	51.554	ug/l		97
36) 1,1-Dichloropropene	8.371	75	134252	50.312	ug/l		99
37) Ethyl Acetate	7.559	43	137359	45.975	ug/l	#	95
38) Carbon Tetrachloride	8.365	117	154915	51.545	ug/l		99
39) Methylcyclohexane	9.600	83	157882	48.172	ug/l		98
40) Benzene	8.606	78	404907	50.937	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081424\
Data File : VN083295.D
Acq On : 14 Aug 2024 12:41
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 14 23:14:20 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 :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.777	41	78258	46.068 ug/l	93
42) 1,2-Dichloroethane	8.671	62	154557	53.374 ug/l	98
43) Isopropyl Acetate	8.688	43	252838	48.708 ug/l #	94
44) Trichloroethene	9.353	130	96274	50.883 ug/l	98
45) 1,2-Dichloropropane	9.624	63	100079	53.038 ug/l	99
46) Dibromomethane	9.712	93	72298	53.530 ug/l	99
47) Bromodichloromethane	9.888	83	155782	51.369 ug/l	99
48) Methyl methacrylate	9.682	41	117620	47.618 ug/l	92
49) 1,4-Dioxane	9.694	88	42819	960.872 ug/l	95
51) 4-Methyl-2-Pentanone	10.447	43	714918	253.043 ug/l	93
52) Toluene	10.629	92	260237	51.813 ug/l	99
53) t-1,3-Dichloropropene	10.835	75	161721	51.915 ug/l	97
54) cis-1,3-Dichloropropene	10.312	75	168161	50.753 ug/l	91
55) 1,1,2-Trichloroethane	11.018	97	95596	53.110 ug/l	98
56) Ethyl methacrylate	10.876	69	172350	50.792 ug/l	88
57) 1,3-Dichloropropane	11.165	76	169602	52.864 ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	364003	253.780 ug/l	97
59) 2-Hexanone	11.194	43	532597	243.668 ug/l	92
60) Dibromochloromethane	11.359	129	117651	54.062 ug/l	98
61) 1,2-Dibromoethane	11.470	107	97558	51.595 ug/l	97
64) Tetrachloroethene	11.106	164	83497	50.230 ug/l	95
65) Chlorobenzene	11.894	112	280885	50.640 ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.965	131	99691	50.961 ug/l	99
67) Ethyl Benzene	11.965	91	520196	51.124 ug/l	99
68) m/p-Xylenes	12.070	106	388963	102.048 ug/l	98
69) o-Xylene	12.400	106	189655	50.450 ug/l	100
70) Styrene	12.412	104	327524	51.874 ug/l	98
71) Bromoform	12.582	173	74422	50.218 ug/l #	97
73) Isopropylbenzene	12.694	105	496635	48.403 ug/l	100
74) N-amyl acetate	12.494	43	224010	44.635 ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.935	83	140246	48.328 ug/l	98
76) 1,2,3-Trichloropropane	12.994	75	128158m	47.602 ug/l	
77) Bromobenzene	12.982	156	113178	49.656 ug/l	97
78) n-propylbenzene	13.035	91	590000	49.938 ug/l	100
79) 2-Chlorotoluene	13.123	91	367969	49.125 ug/l	97
80) 1,3,5-Trimethylbenzene	13.176	105	428037	49.829 ug/l	97
81) trans-1,4-Dichloro-2-b...	12.735	75	56887	45.962 ug/l	86
82) 4-Chlorotoluene	13.223	91	364156	48.468 ug/l	98
83) tert-Butylbenzene	13.441	119	371735	48.866 ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	430444	49.723 ug/l	100
85) sec-Butylbenzene	13.617	105	517202	49.826 ug/l	100
86) p-Isopropyltoluene	13.729	119	434576	50.705 ug/l	98
87) 1,3-Dichlorobenzene	13.735	146	213990	49.896 ug/l	98
88) 1,4-Dichlorobenzene	13.811	146	211478	48.912 ug/l	98
89) n-Butylbenzene	14.059	91	382193	51.464 ug/l	98
90) Hexachloroethane	14.335	117	78059	47.142 ug/l	93
91) 1,2-Dichlorobenzene	14.106	146	206688	49.802 ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	30853	43.813 ug/l	99
93) 1,2,4-Trichlorobenzene	15.394	180	112669	48.458 ug/l	97
94) Hexachlorobutadiene	15.500	225	46384	44.858 ug/l	98
95) Naphthalene	15.641	128	389373	47.278 ug/l	98
96) 1,2,3-Trichlorobenzene	15.841	180	110529	48.043 ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081424\
Data File : VN083295.D
Acq On : 14 Aug 2024 12:41
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 14 23:14:20 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 :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

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

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

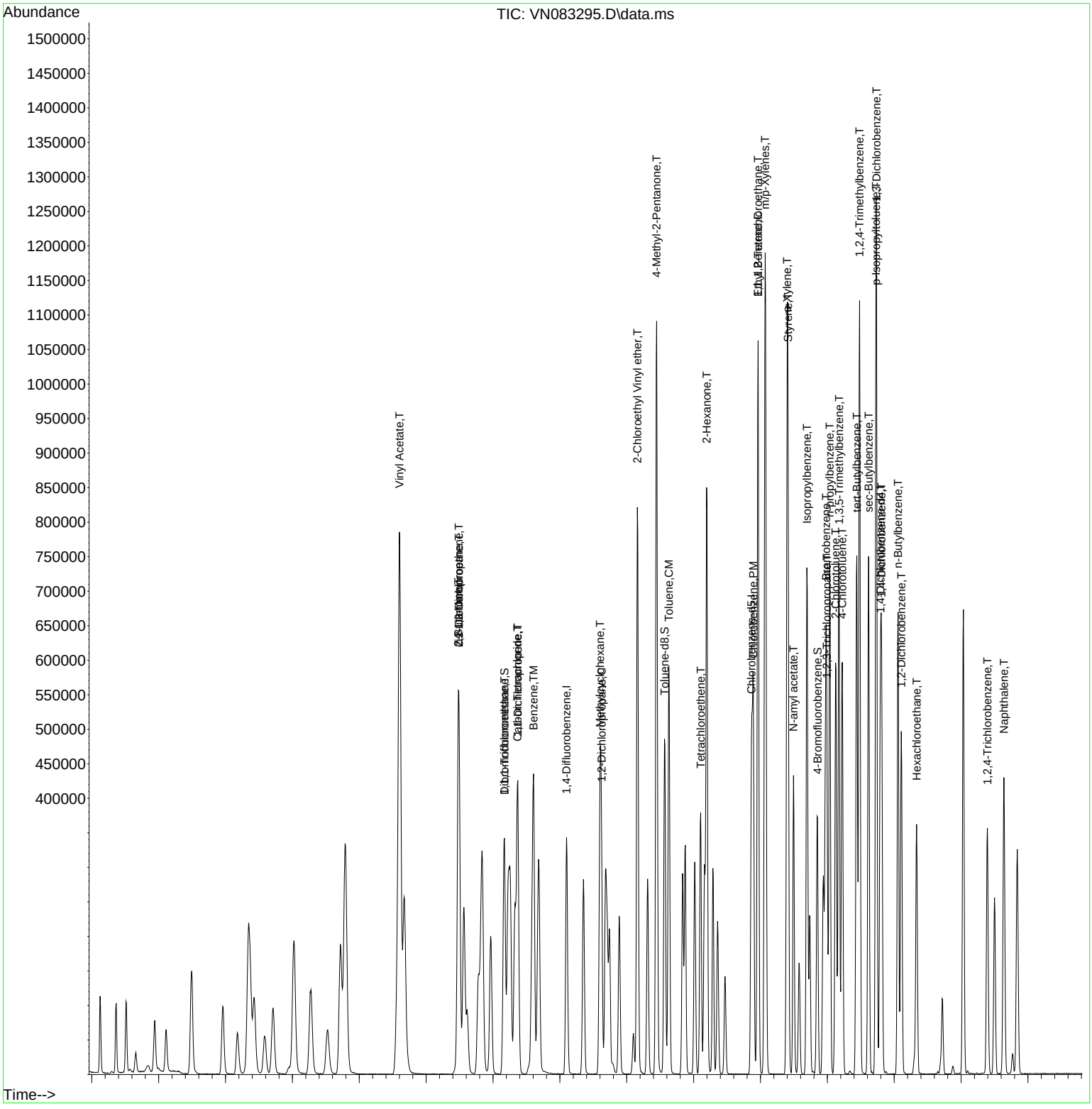
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081424\
Data File : VN083295.D
Acq On : 14 Aug 2024 12:41
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

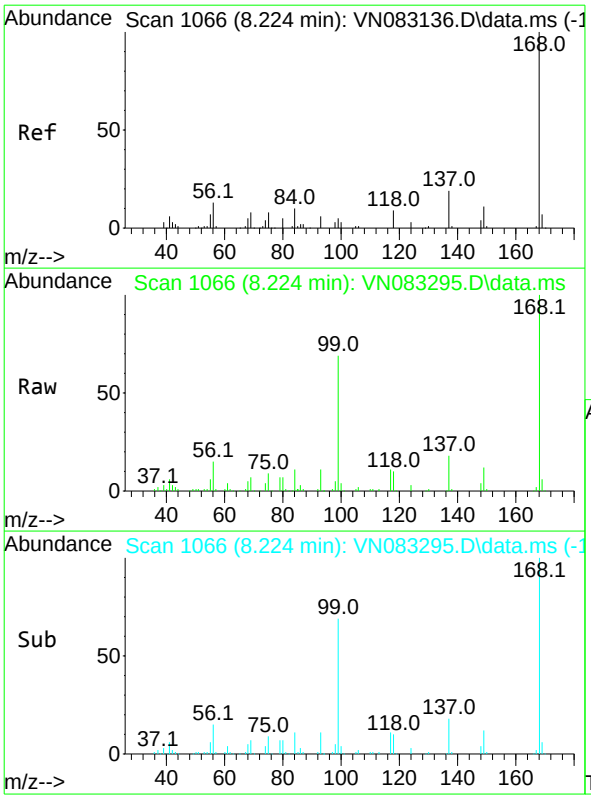
Quant Time: Aug 14 23:14:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

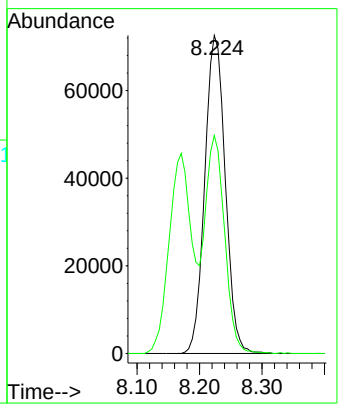




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion:168 Resp: 165534

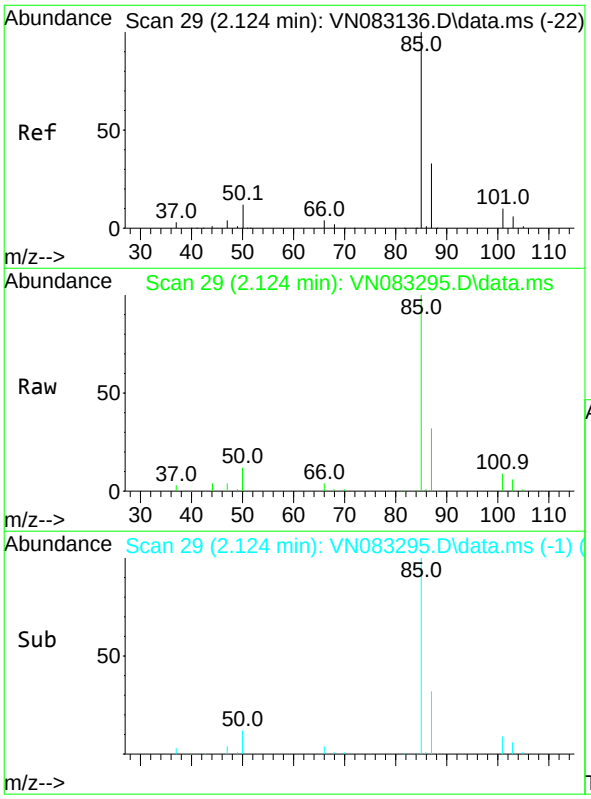
Ion	Ratio	Lower	Upper
168	100		
99	68.5	48.2	72.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

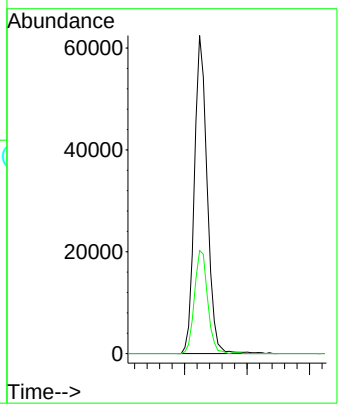
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

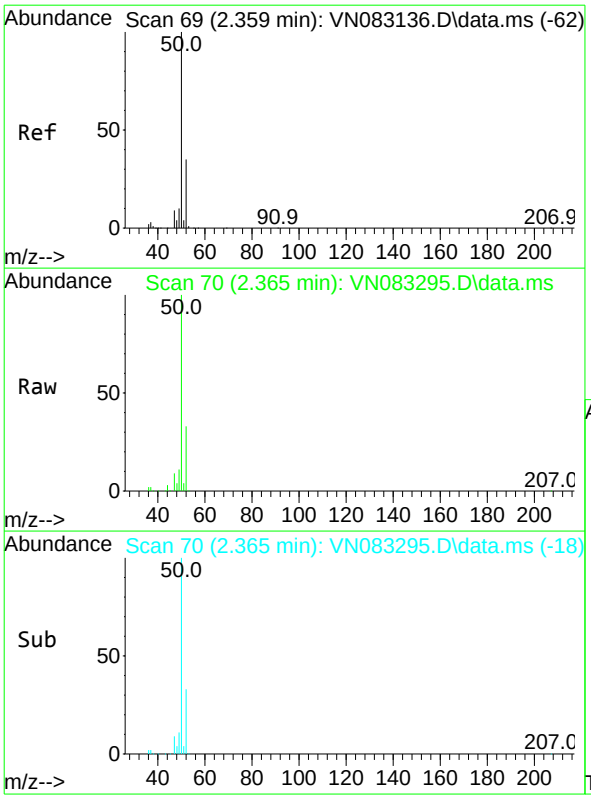


#2
Dichlorodifluoromethane
Concen: 47.158 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 85 Resp: 88523

Ion	Ratio	Lower	Upper
85	100		
87	32.4	15.7	47.0

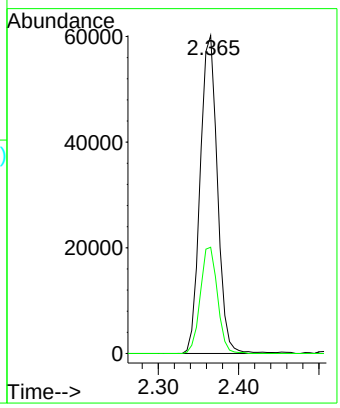




#3
Chloromethane
Concen: 46.562 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 50 Resp: 89486

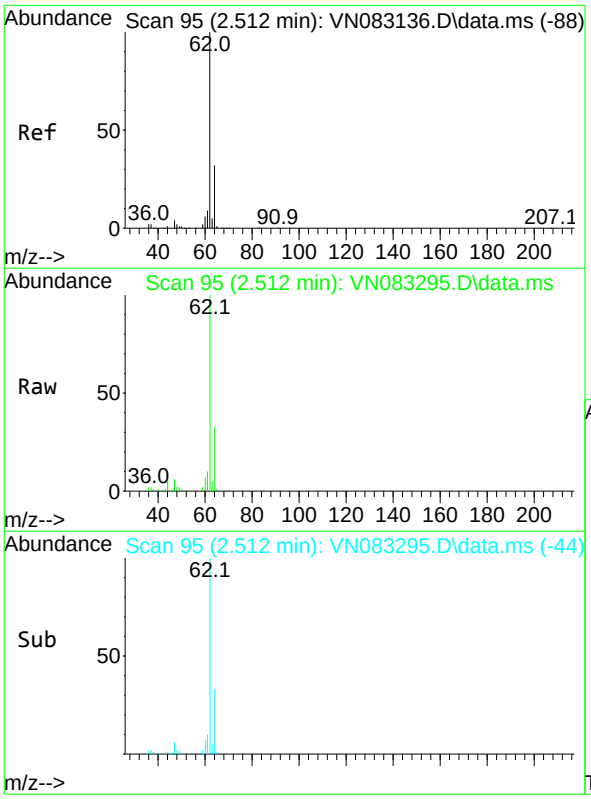
Ion	Ratio	Lower	Upper
50	100		
52	33.4	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

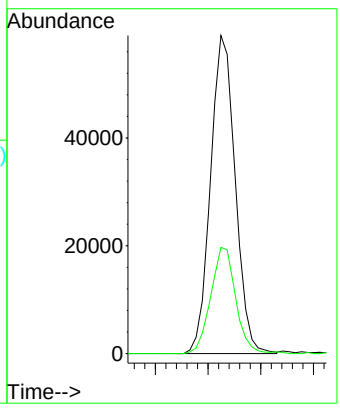
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

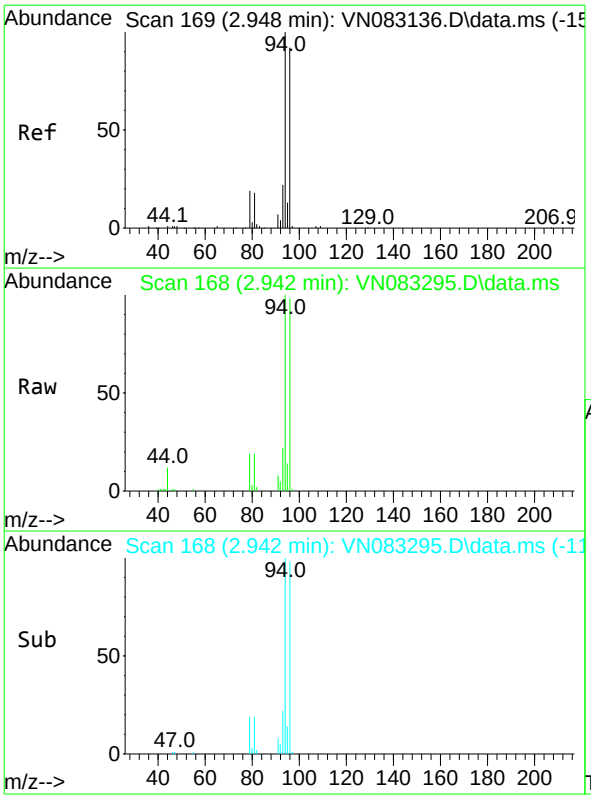


#4
Vinyl Chloride
Concen: 48.983 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 62 Resp: 96057

Ion	Ratio	Lower	Upper
62	100		
64	33.4	25.0	37.6

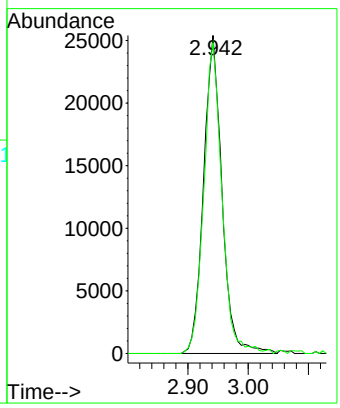




#5
Bromomethane
Concen: 44.339 ug/l
RT: 2.942 min Scan# 16
Delta R.T. -0.006 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 94 Resp: 53952

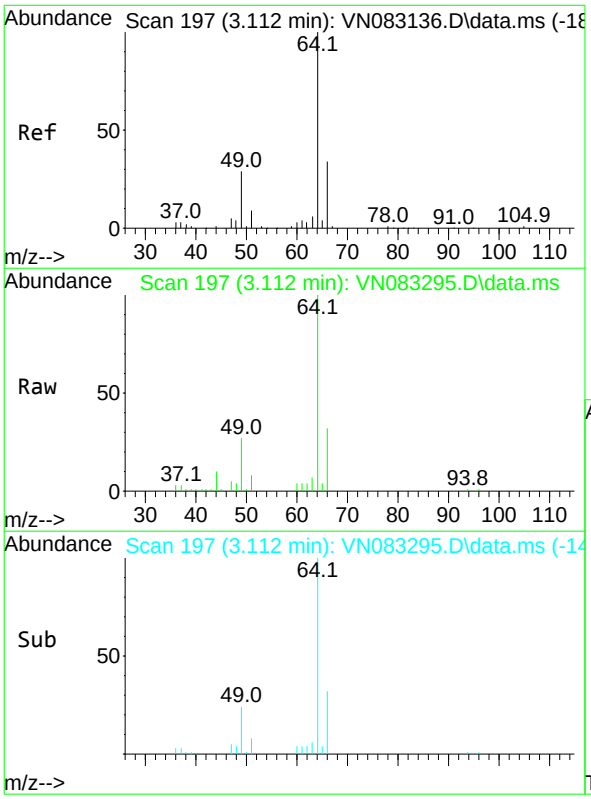
Ion	Ratio	Lower	Upper
94	100		
96	97.5	78.0	117.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

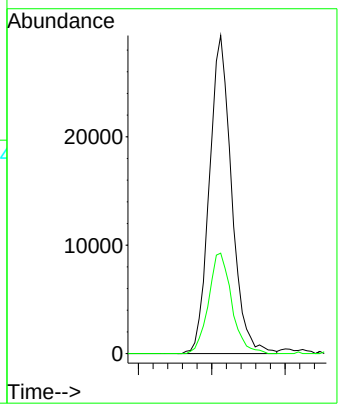
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

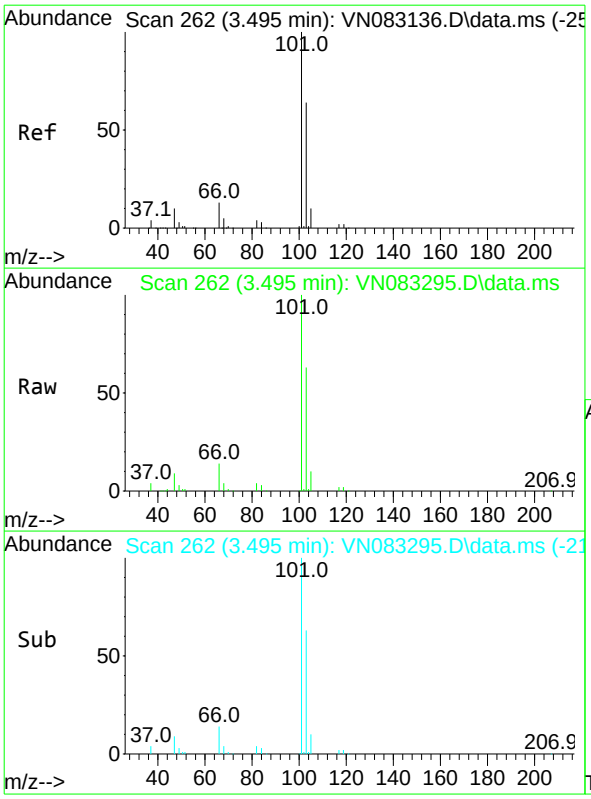


#6
Chloroethane
Concen: 50.266 ug/l
RT: 3.112 min Scan# 197
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 64 Resp: 61671

Ion	Ratio	Lower	Upper
64	100		
66	31.6	26.6	40.0

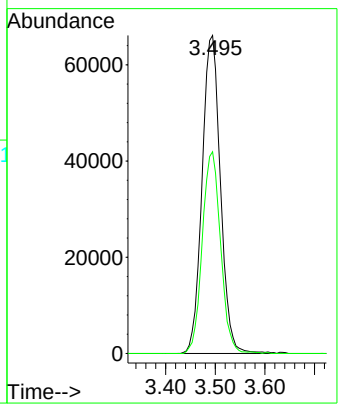




#7
Trichlorofluoromethane
Concen: 52.421 ug/l
RT: 3.495 min Scan# 26
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion:101 Resp: 169822

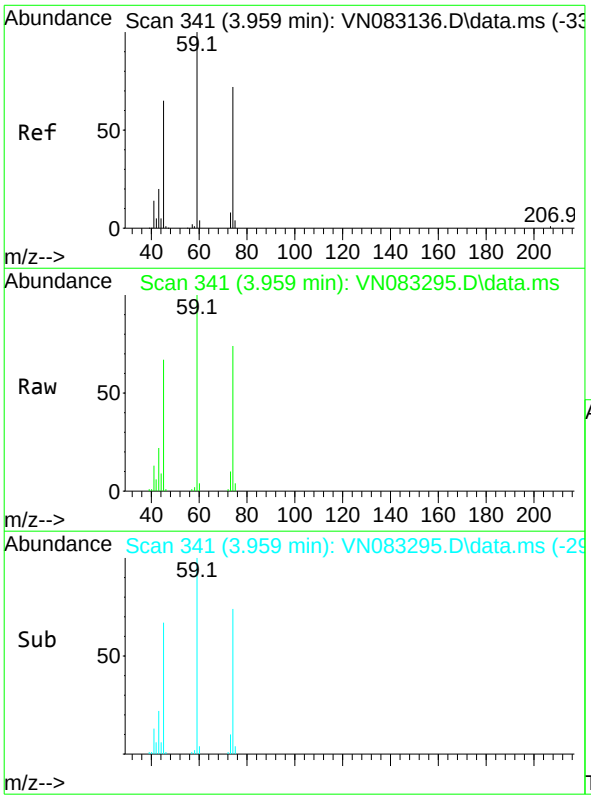
Ion	Ratio	Lower	Upper
101	100		
103	63.4	52.7	79.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

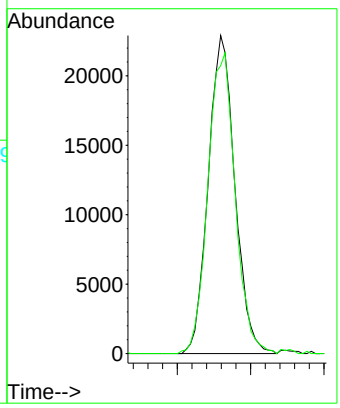
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

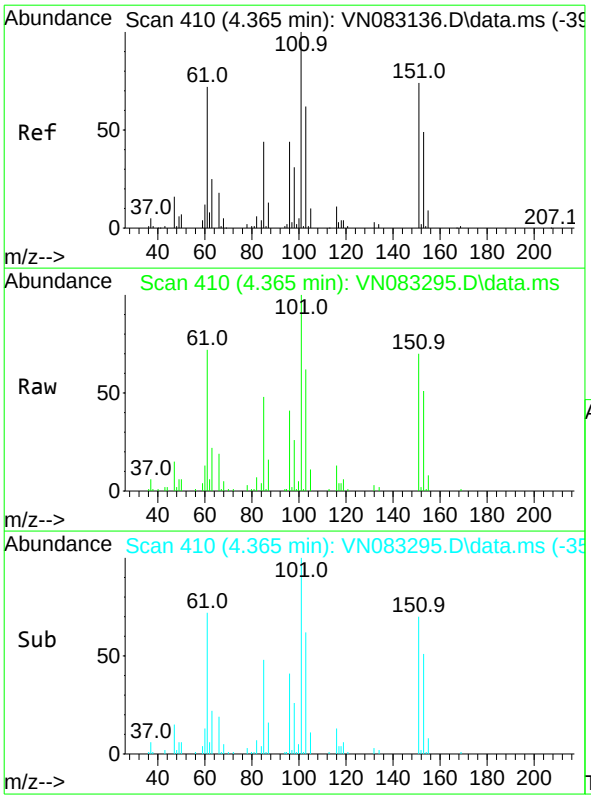


#8
Diethyl Ether
Concen: 47.827 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 74 Resp: 57654

Ion	Ratio	Lower	Upper
74	100		
45	97.2	55.5	166.3

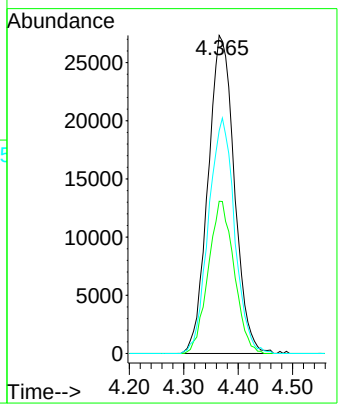




#9
1,1,2-Trichlorotrifluoroethane
Concen: 51.366 ug/l
RT: 4.365 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion:101 Resp: 91744

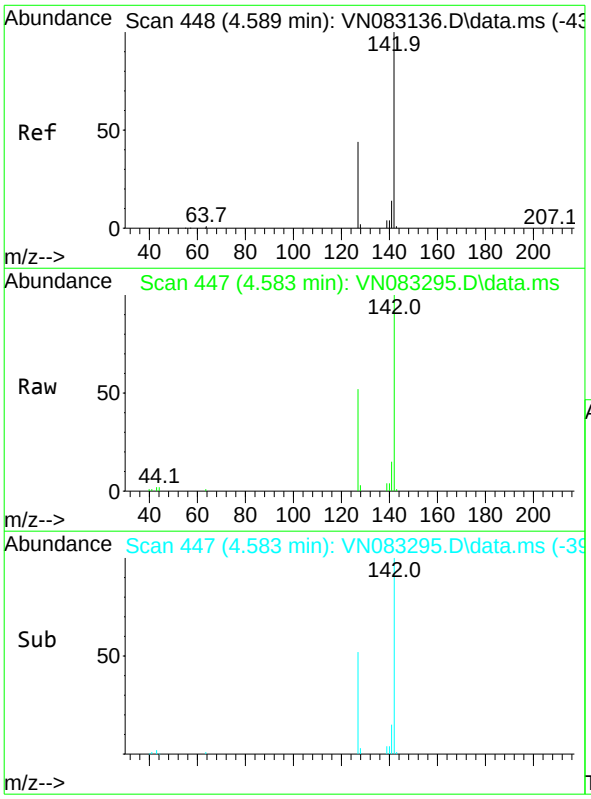
Ion	Ratio	Lower	Upper
101	100		
85	46.9	38.3	57.5
151	73.4	59.3	88.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

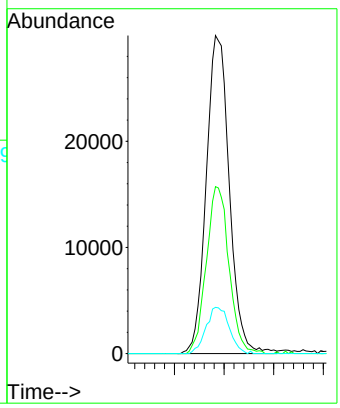
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

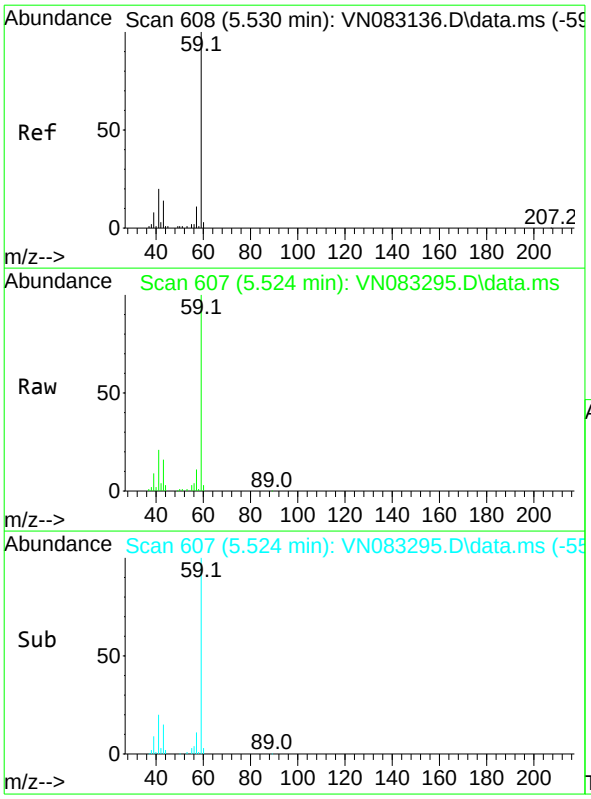


#10
Methyl Iodide
Concen: 41.205 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.006 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion:142 Resp: 96810

Ion	Ratio	Lower	Upper
142	100		
127	52.5	37.5	56.3
141	14.5	13.1	19.7

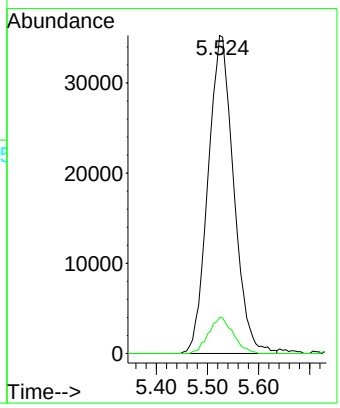




#11
Tert butyl alcohol
Concen: 250.960 ug/l
RT: 5.524 min Scan# 60
Delta R.T. -0.006 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 59 Resp: 122885

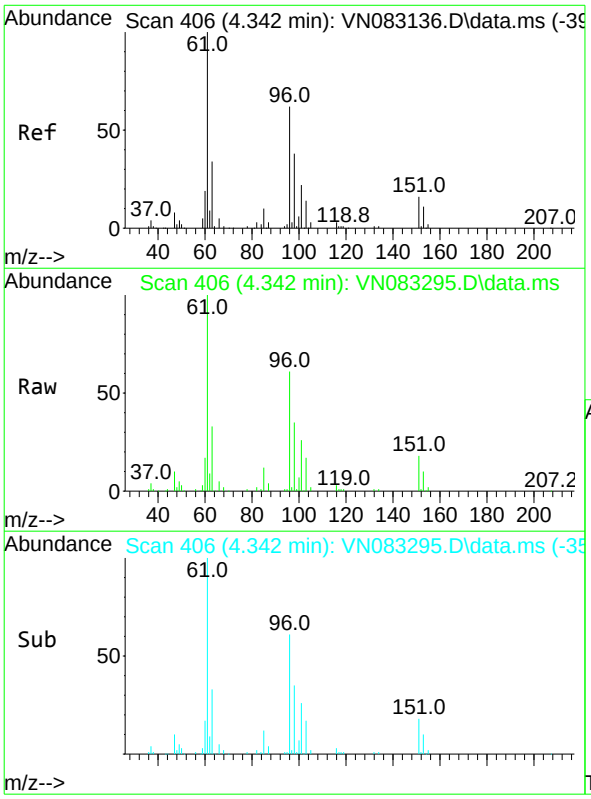
Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.9	13.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

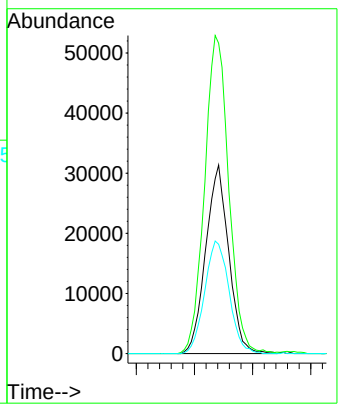
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

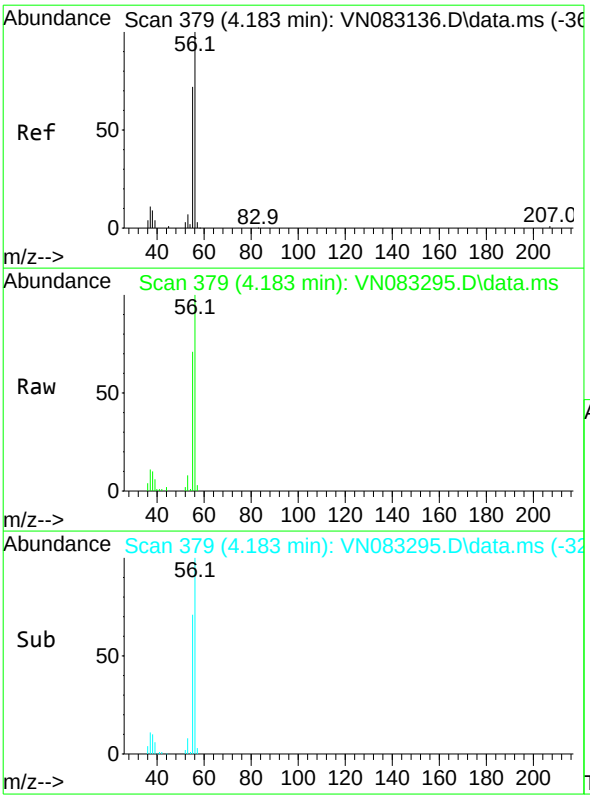


#12
1,1-Dichloroethene
Concen: 46.996 ug/l
RT: 4.342 min Scan# 406
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 96 Resp: 86237

Ion	Ratio	Lower	Upper
96	100		
61	164.6	149.7	224.5
98	58.0	50.1	75.1

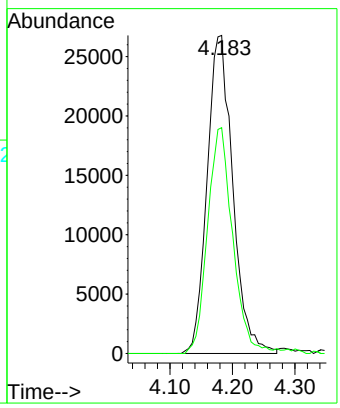




#13
Acrolein
Concen: 239.443 ug/l
RT: 4.183 min Scan# 37
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 56 Resp: 76414

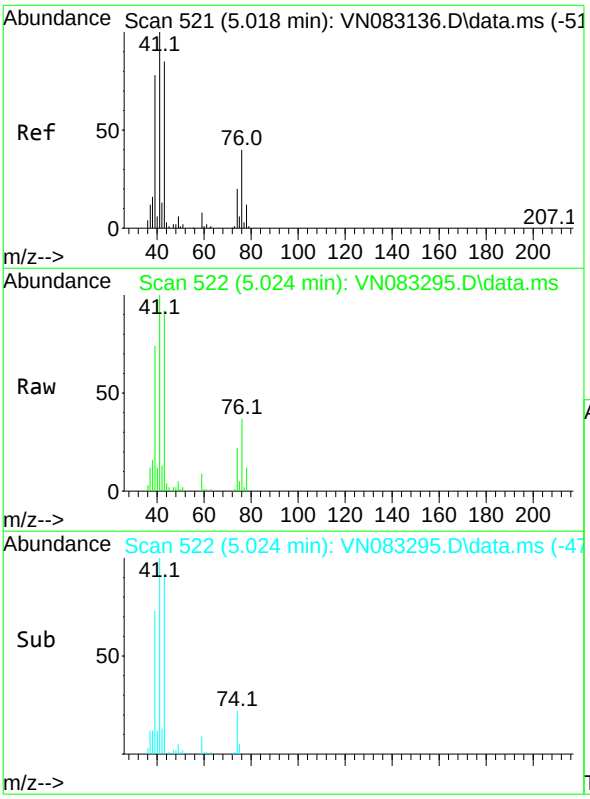
Ion	Ratio	Lower	Upper
56	100		
55	69.2	56.4	84.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

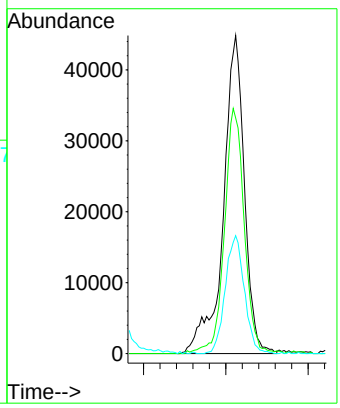
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

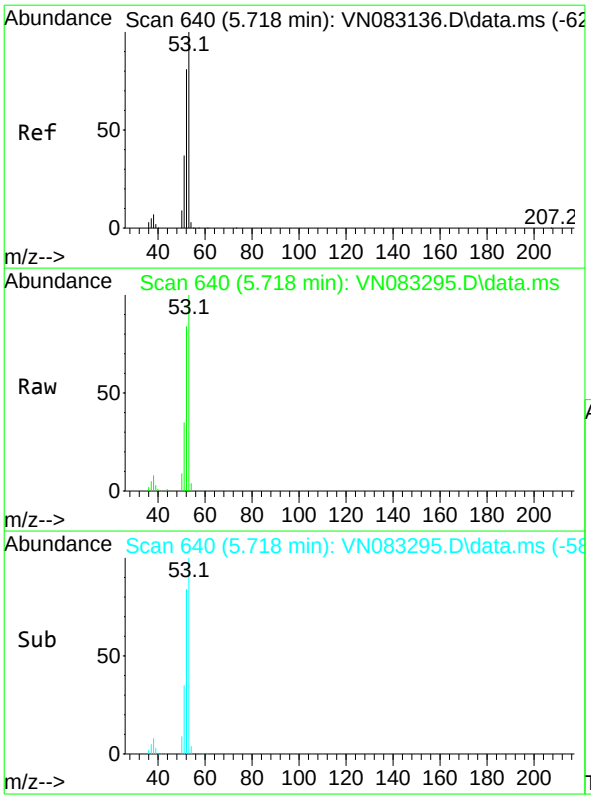


#14
Allyl chloride
Concen: 46.115 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 41 Resp: 159911

Ion	Ratio	Lower	Upper
41	100		
39	72.1	67.8	101.6
76	33.5	25.8	38.8

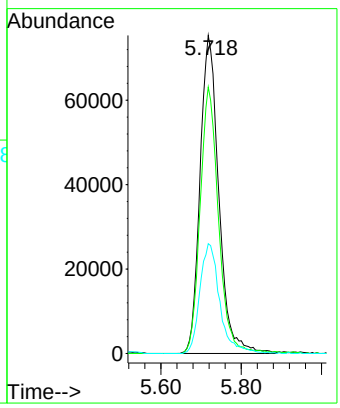




#15
Acrylonitrile
Concen: 242.760 ug/l
RT: 5.718 min Scan# 64
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 53 Resp: 244473

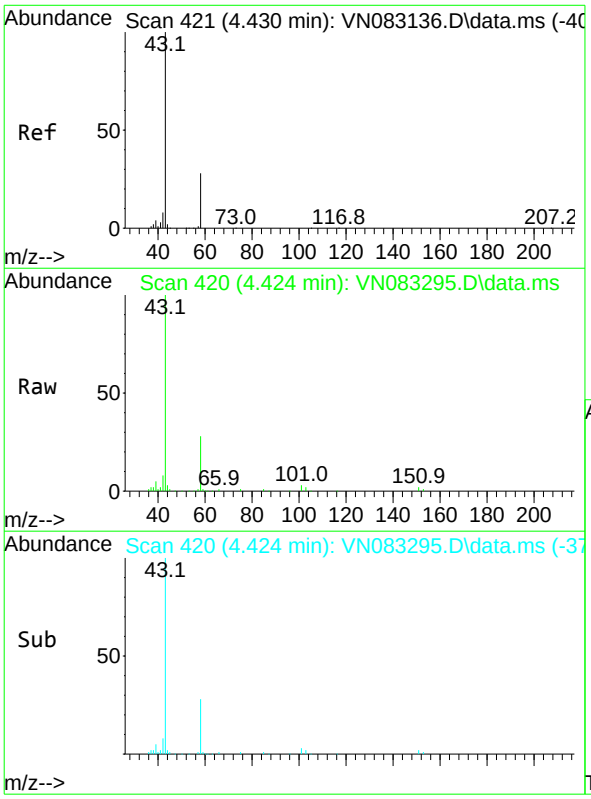
Ion	Ratio	Lower	Upper
53	100		
52	81.5	66.6	100.0
51	36.6	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

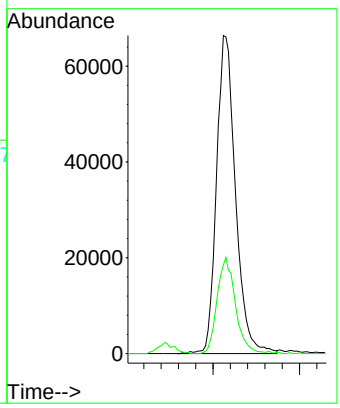
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

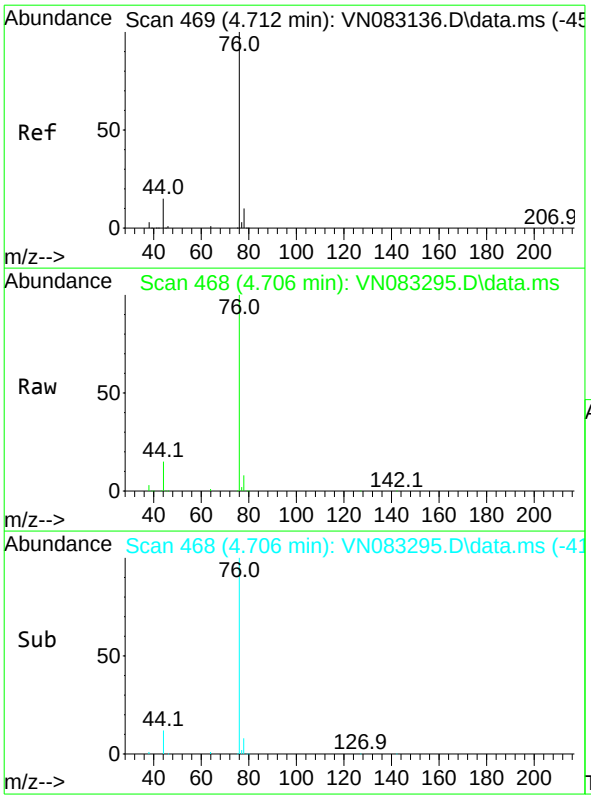


#16
Acetone
Concen: 219.394 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 43 Resp: 202275

Ion	Ratio	Lower	Upper
43	100		
58	27.5	21.8	32.6

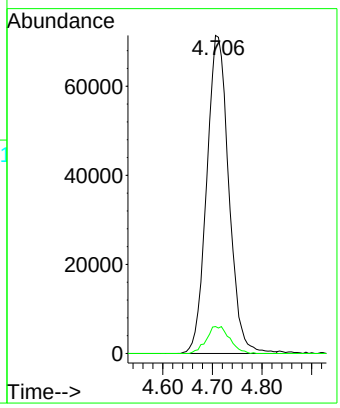




#17
Carbon Disulfide
Concen: 41.102 ug/l
RT: 4.706 min Scan# 46
Delta R.T. -0.006 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 76 Resp: 220684

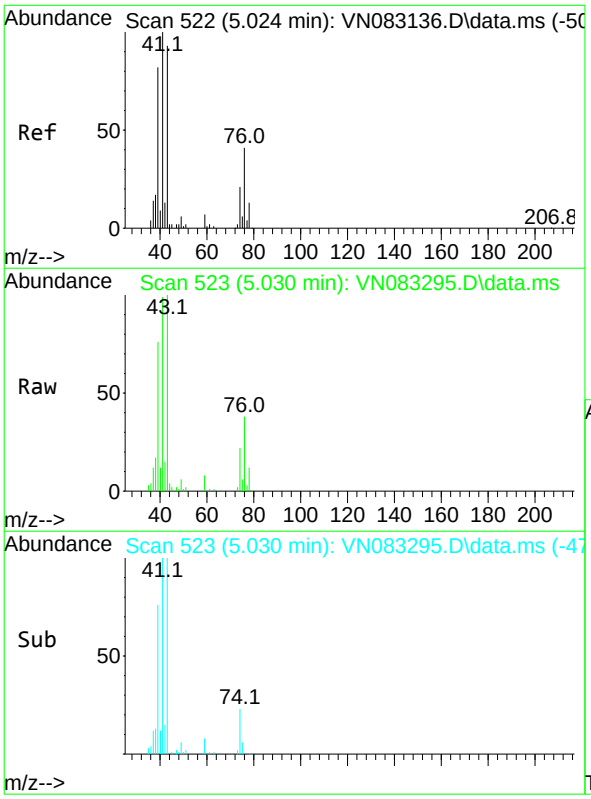
Ion	Ratio	Lower	Upper
76	100		
78	8.5	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

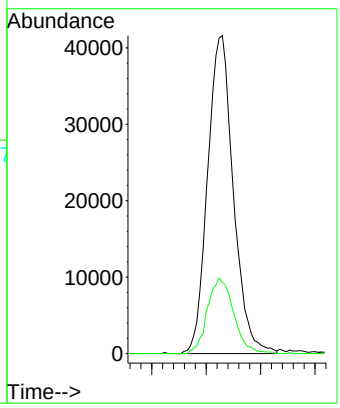
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

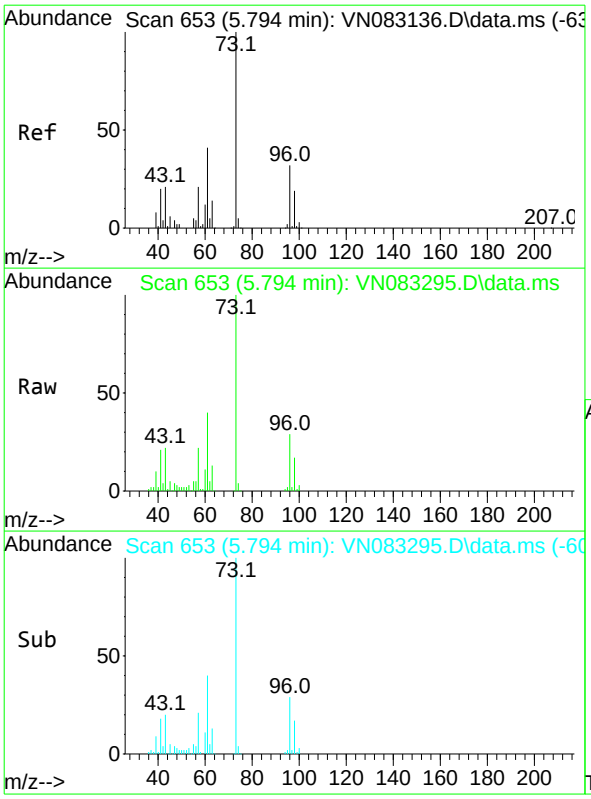


#18
Methyl Acetate
Concen: 49.826 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.006 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 43 Resp: 136868

Ion	Ratio	Lower	Upper
43	100		
74	24.2	16.3	24.5

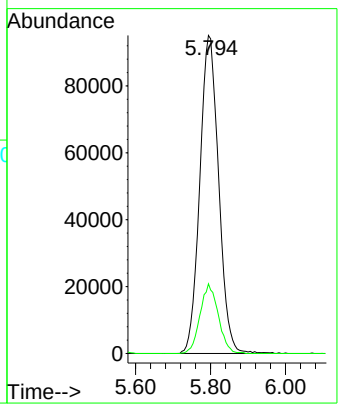




#19
Methyl tert-butyl Ether
Concen: 50.114 ug/l
RT: 5.794 min Scan# 65
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 73 Resp: 331920

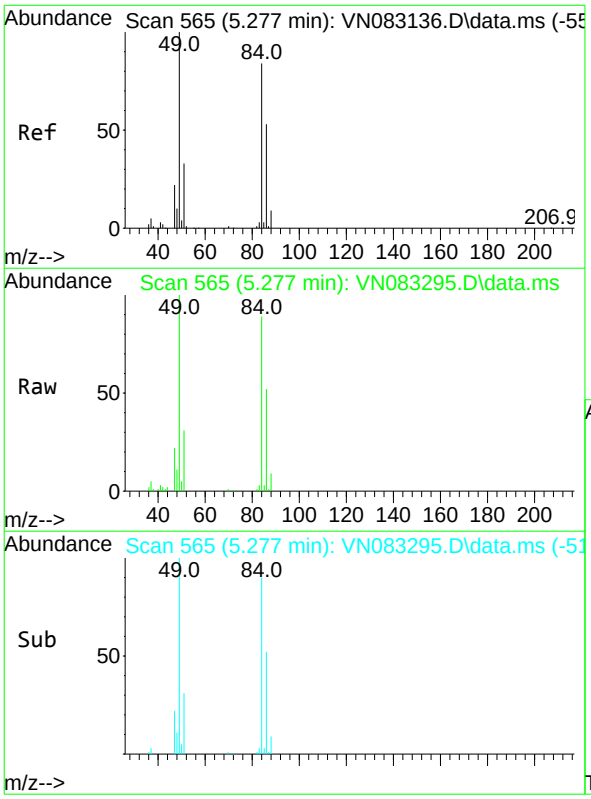
Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.9	26.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

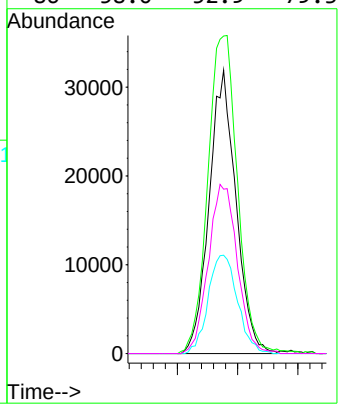
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

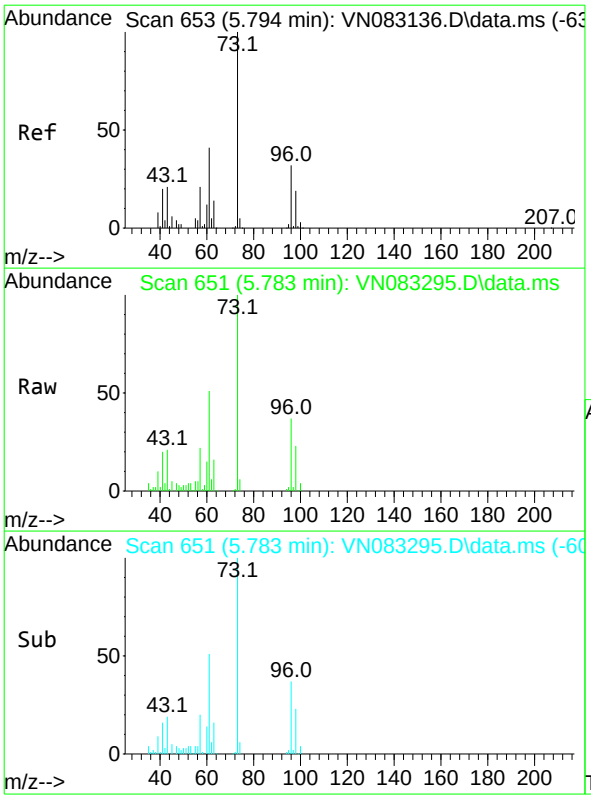


#20
Methylene Chloride
Concen: 46.513 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 84 Resp: 98695

Ion	Ratio	Lower	Upper
84	100		
49	112.1	119.6	179.4#
51	34.7	34.8	52.2#
86	58.0	52.9	79.3

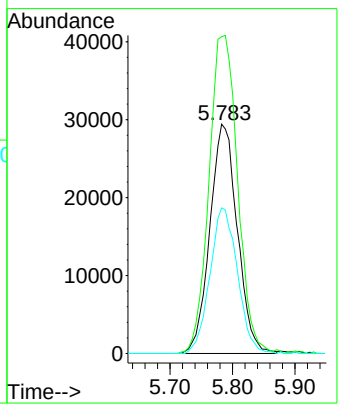




#21
trans-1,2-Dichloroethene
Concen: 47.417 ug/l
RT: 5.783 min Scan# 65
Delta R.T. -0.012 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 96 Resp: 89928

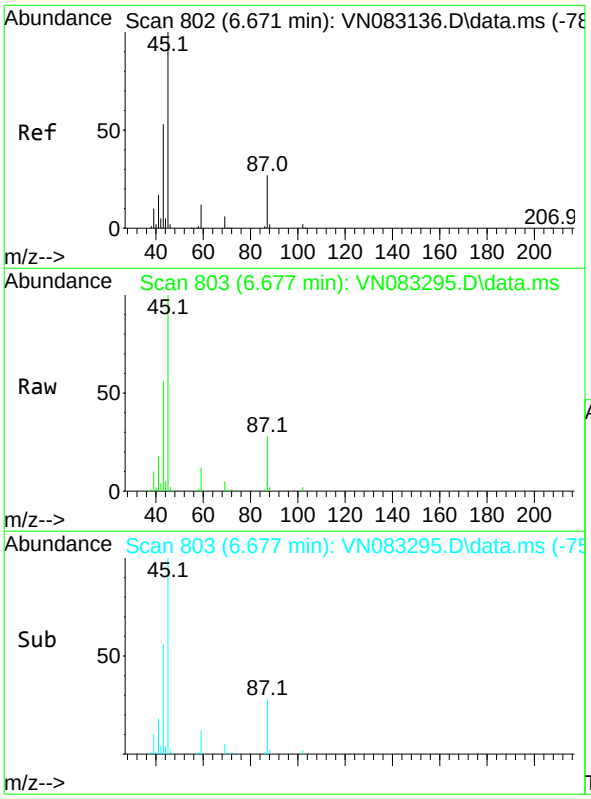
Ion	Ratio	Lower	Upper
96	100		
61	138.1	123.4	185.2
98	63.5	49.3	73.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

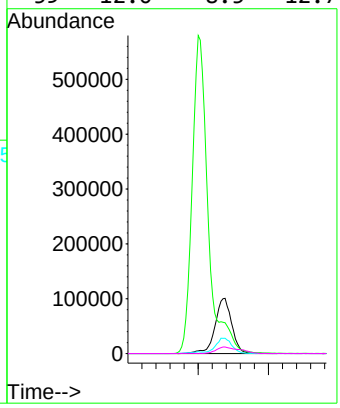
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

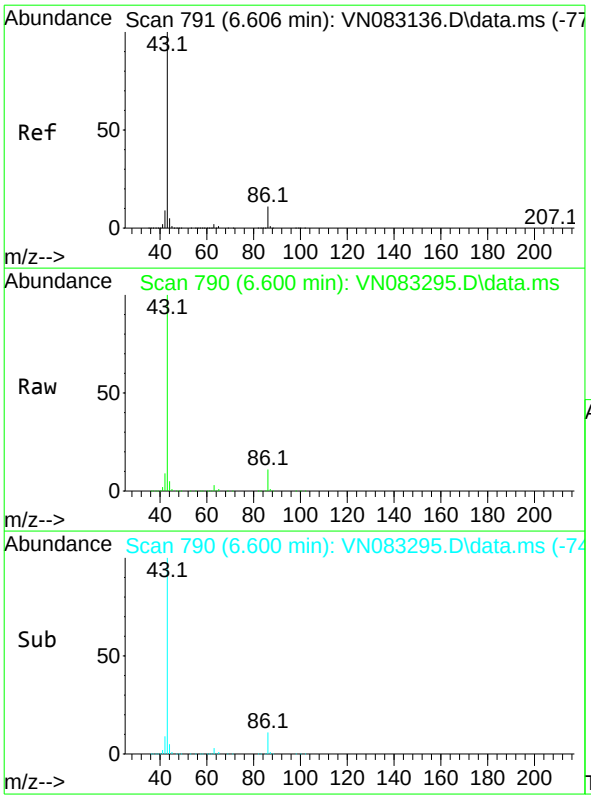


#22
Diisopropyl ether
Concen: 50.939 ug/l
RT: 6.677 min Scan# 803
Delta R.T. 0.006 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 45 Resp: 332029

Ion	Ratio	Lower	Upper
45	100		
43	55.3	44.0	66.0
87	27.8	19.7	29.5
59	12.0	8.5	12.7

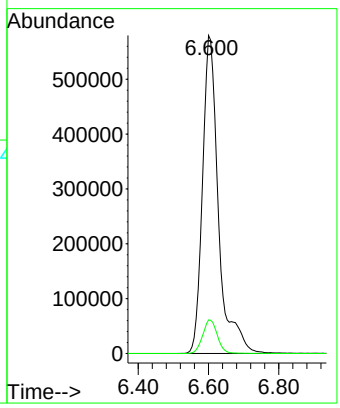




#23
Vinyl Acetate
Concen: 273.001 ug/l
RT: 6.600 min Scan# 79
Delta R.T. -0.006 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 43 Resp: 1823939

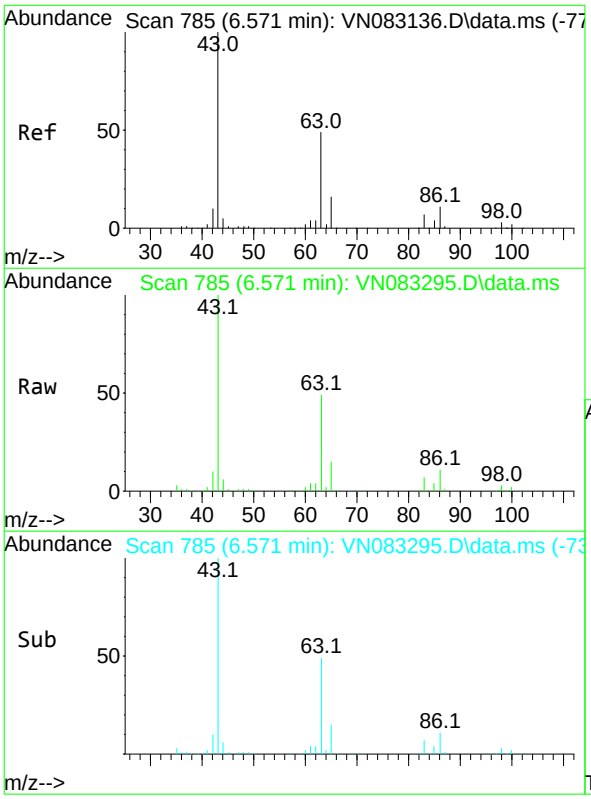
Ion	Ratio	Lower	Upper
43	100		
86	10.6	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

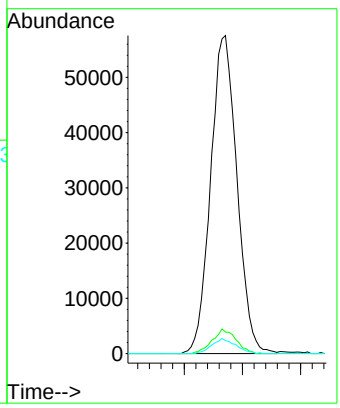
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

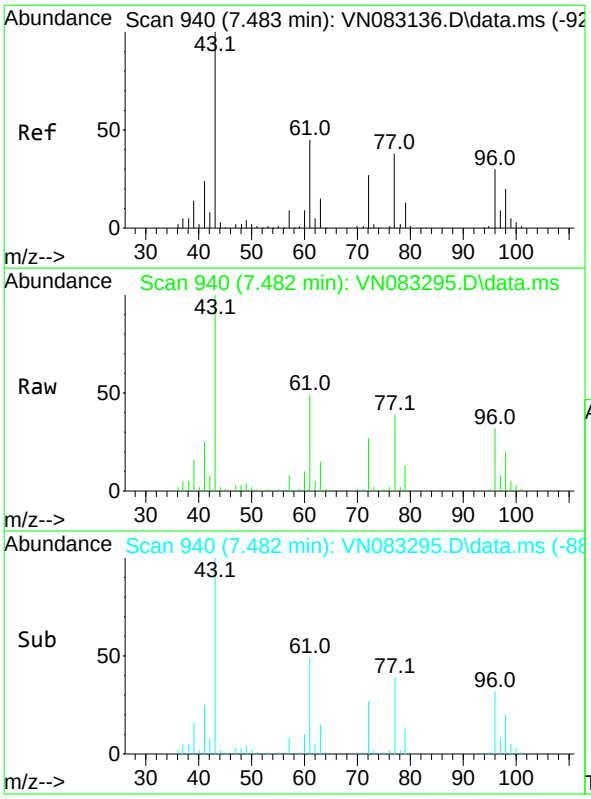


#24
1,1-Dichloroethane
Concen: 51.002 ug/l
RT: 6.571 min Scan# 785
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 63 Resp: 181204

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.3	9.9
100	4.1	2.0	6.0

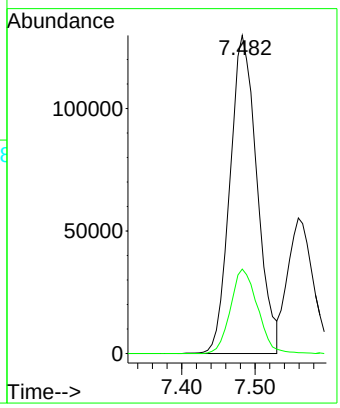




#25
2-Butanone
Concen: 234.803 ug/l
RT: 7.482 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 43 Resp: 332401

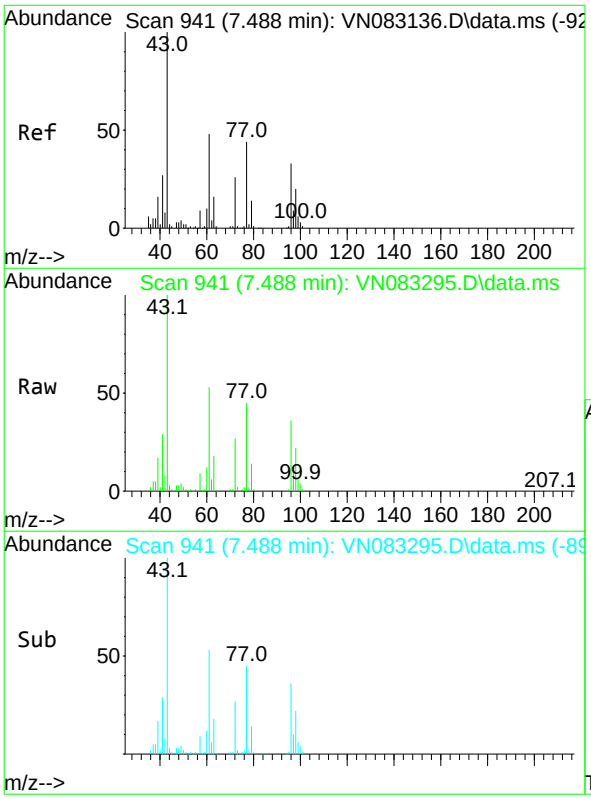
Ion	Ratio	Lower	Upper
43	100		
72	26.5	18.2	27.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

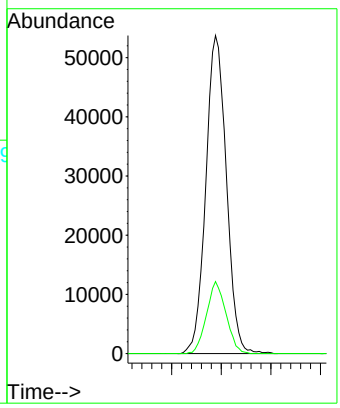
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

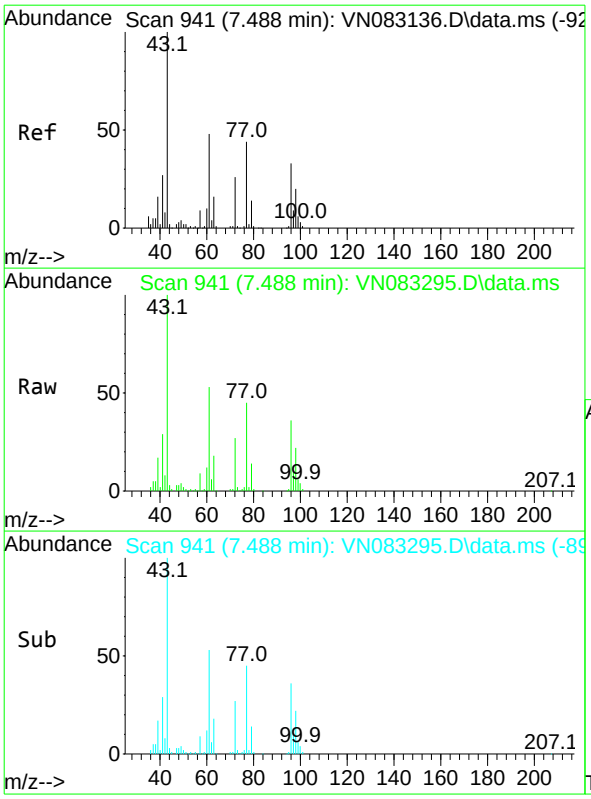


#26
2,2-Dichloropropane
Concen: 46.878 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 77 Resp: 154672

Ion	Ratio	Lower	Upper
77	100		
97	21.4	10.3	30.9





#27
cis-1,2-Dichloroethene
Concen: 49.219 ug/l
RT: 7.488 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

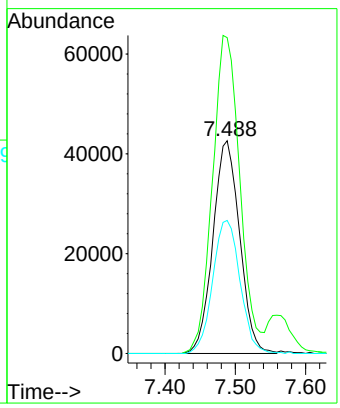
Tgt Ion: 96 Resp: 112641

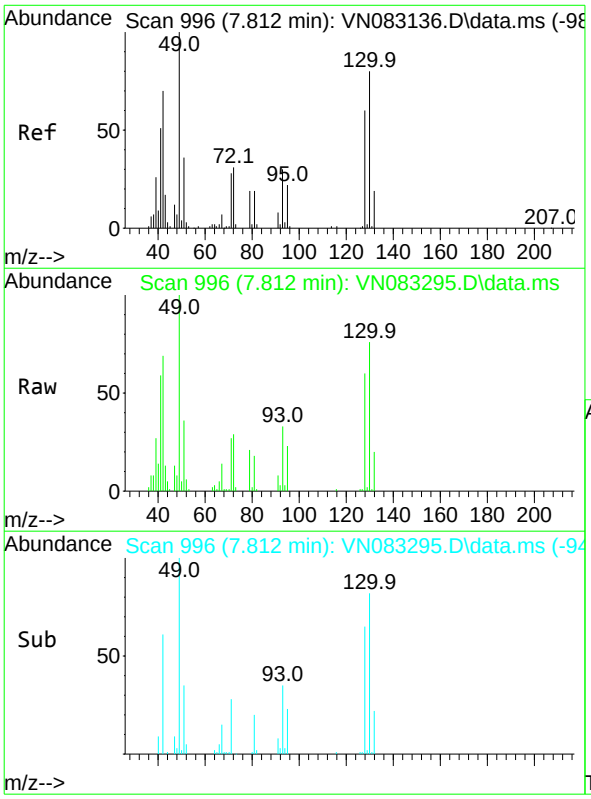
Ion	Ratio	Lower	Upper
96	100		
61	153.9	0.0	329.6
98	64.1	0.0	128.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

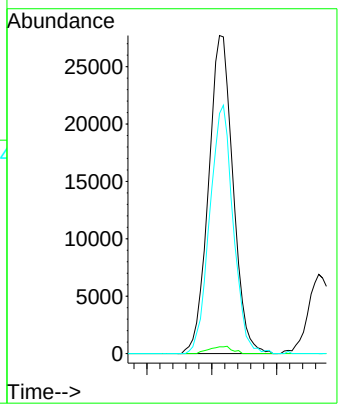


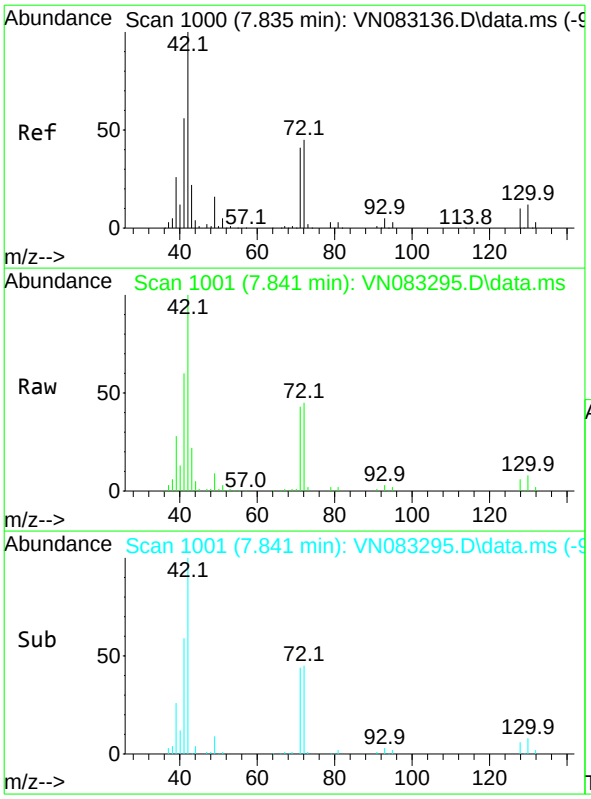


#28
Bromochloromethane
Concen: 50.022 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 49 Resp: 72630

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	3.8
130	74.7	50.5	75.7

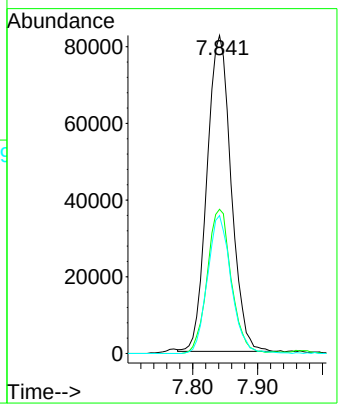




#29
Tetrahydrofuran
Concen: 232.605 ug/l
RT: 7.841 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 42 Resp: 212863

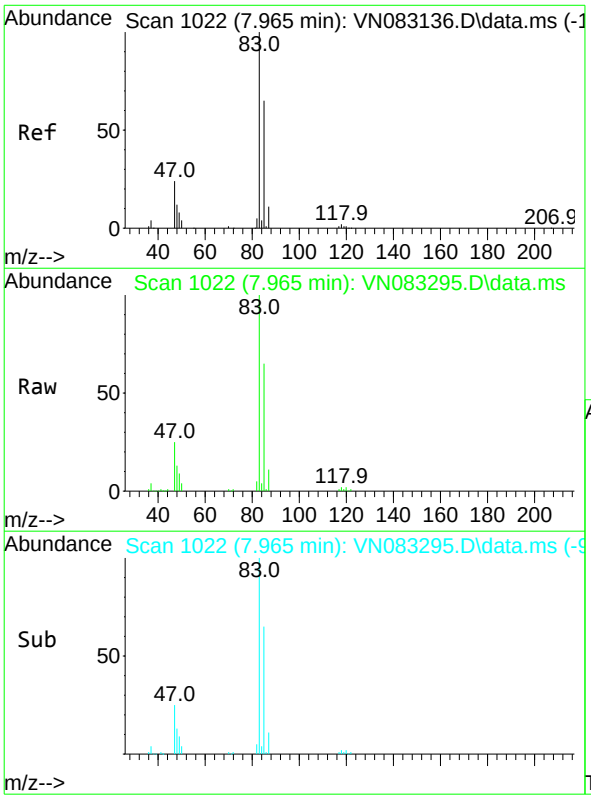
Ion	Ratio	Lower	Upper
42	100		
72	45.5	30.0	45.0#
71	42.9	28.3	42.5#



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

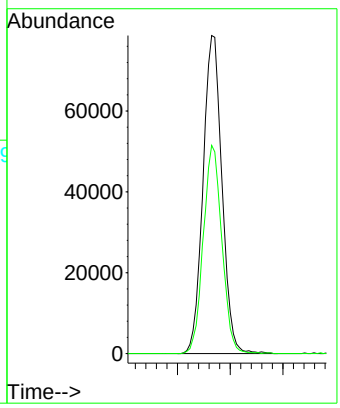
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

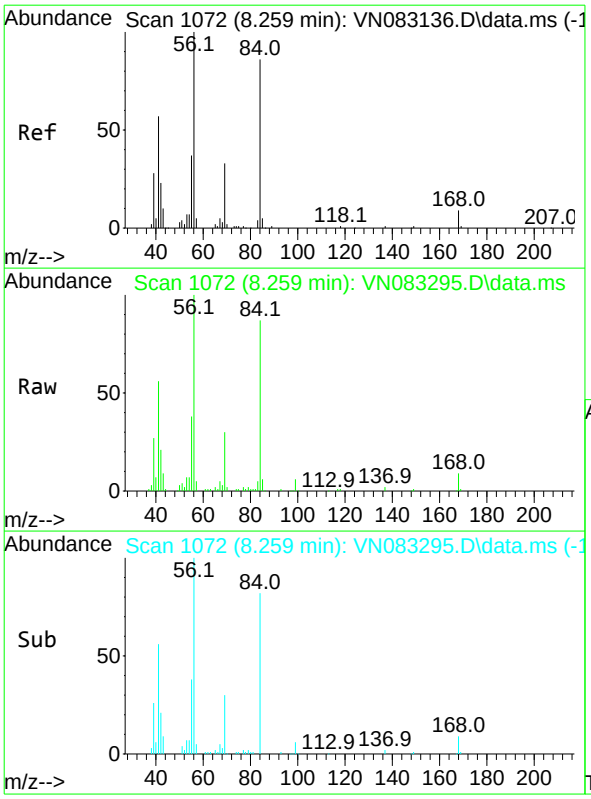


#30
Chloroform
Concen: 53.171 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 83 Resp: 196262

Ion	Ratio	Lower	Upper
83	100		
85	65.5	50.9	76.3

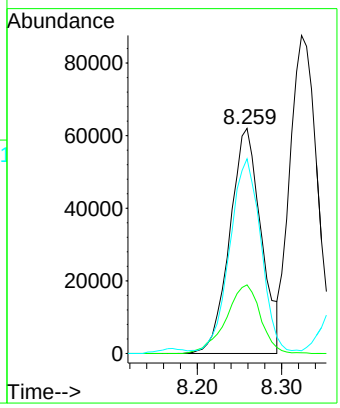




#31
Cyclohexane
Concen: 45.816 ug/l
RT: 8.259 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 56 Resp: 159977

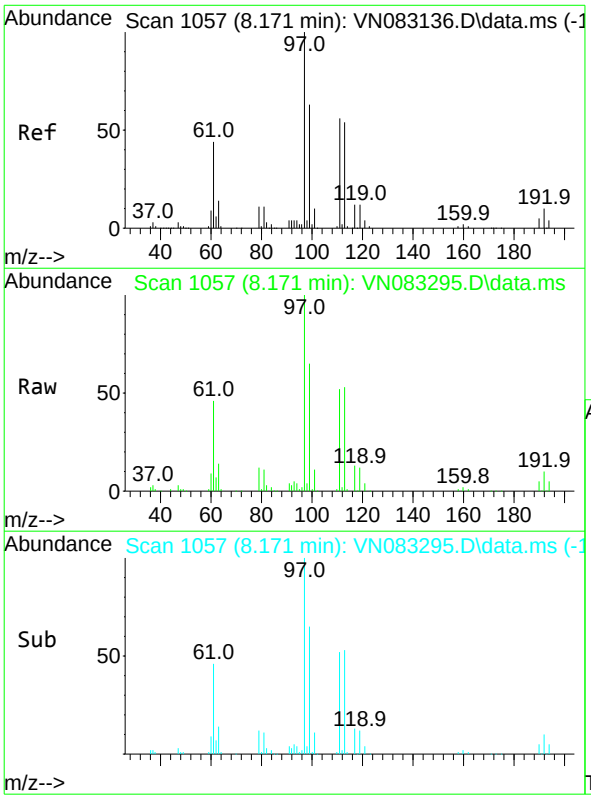
Ion	Ratio	Lower	Upper
56	100		
69	30.5	24.5	36.7
84	84.7	66.0	99.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

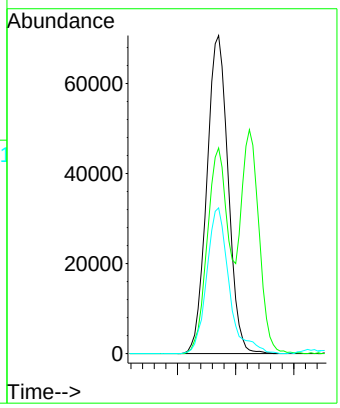
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

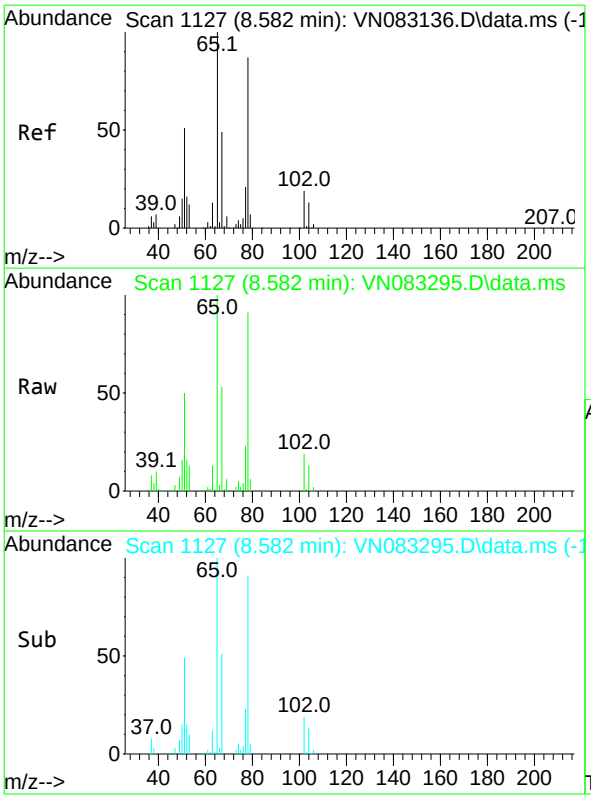


#32
1,1,1-Trichloroethane
Concen: 51.554 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 97 Resp: 180121

Ion	Ratio	Lower	Upper
97	100		
99	65.7	52.0	78.0
61	48.1	42.1	63.1

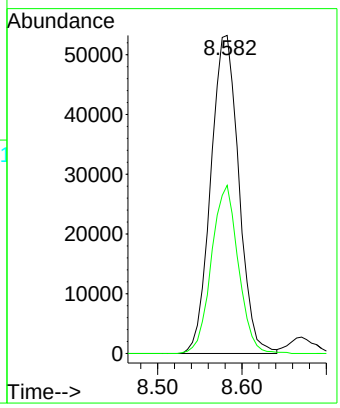




#33
1,2-Dichloroethane-d4
Concen: 52.129 ug/l
RT: 8.582 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 65 Resp: 122826

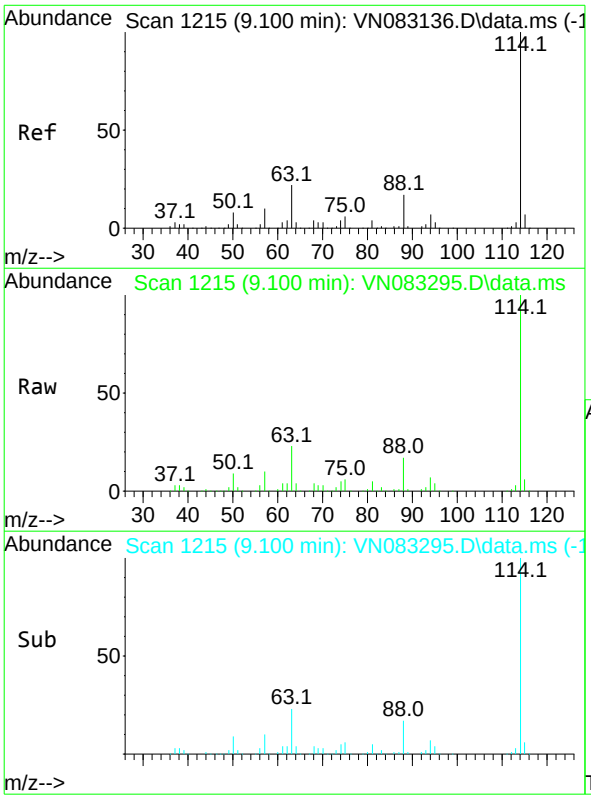
Ion	Ratio	Lower	Upper
65	100		
67	50.7	0.0	104.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

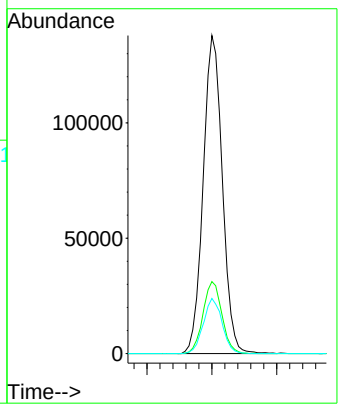
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

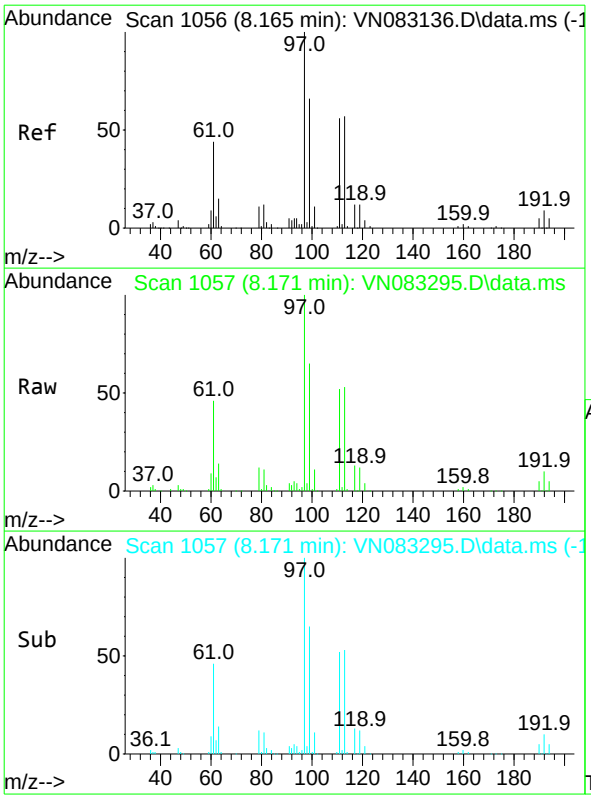


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion:114 Resp: 282606

Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	44.6
88	17.3	0.0	31.4

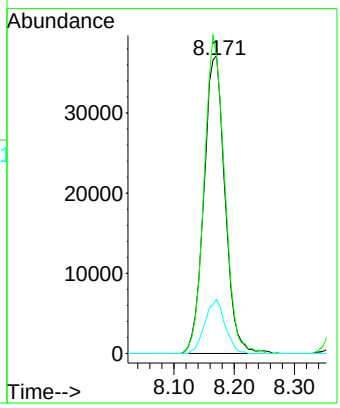




#35
Dibromofluoromethane
Concen: 51.194 ug/l
RT: 8.171 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion:113 Resp: 90305

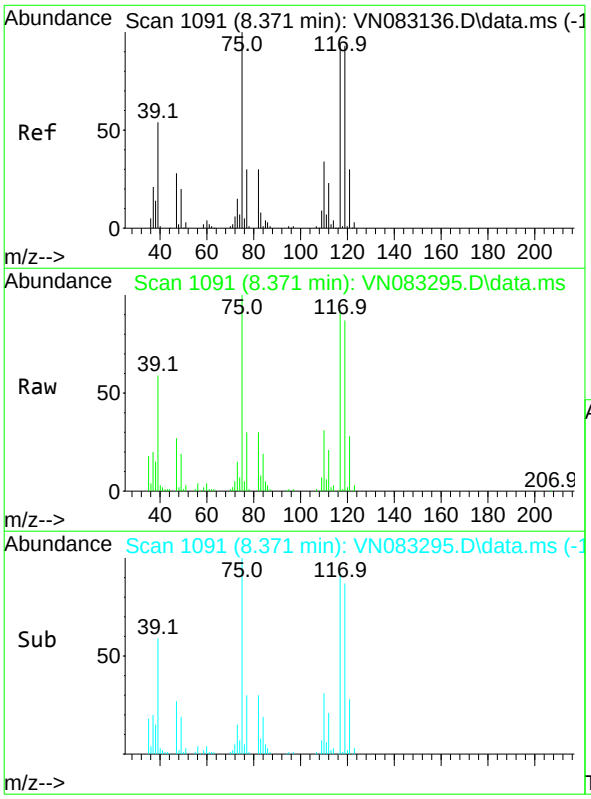
Ion	Ratio	Lower	Upper
113	100		
111	103.3	82.4	123.6
192	17.3	14.9	22.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

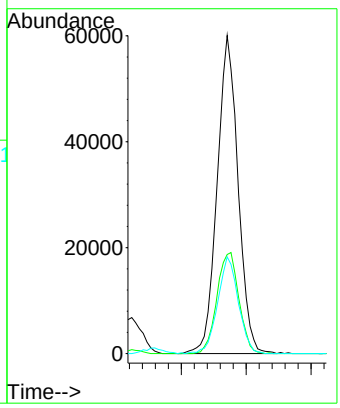
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

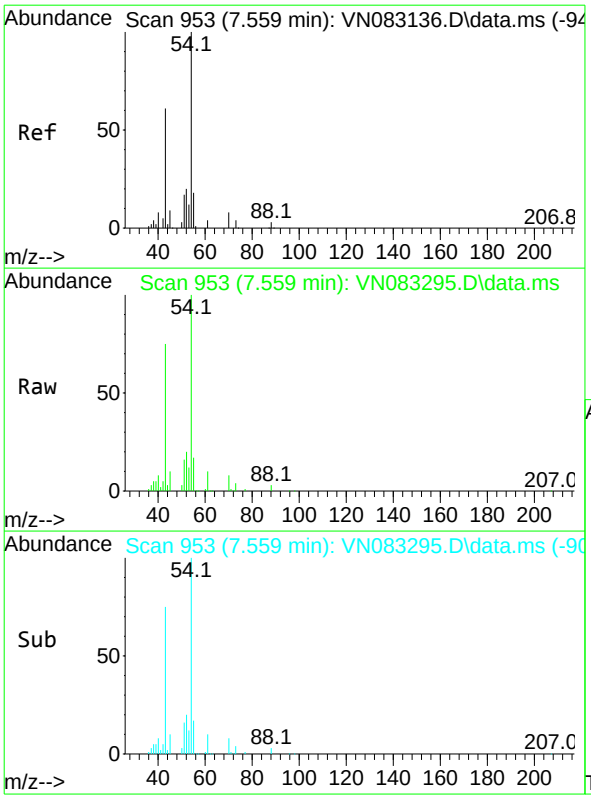


#36
1,1-Dichloropropene
Concen: 50.312 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 75 Resp: 134252

Ion	Ratio	Lower	Upper
75	100		
110	33.4	16.3	48.9
77	30.1	24.6	37.0

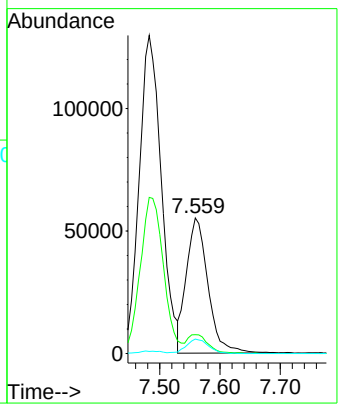




#37
Ethyl Acetate
Concen: 45.975 ug/l
RT: 7.559 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 43 Resp: 137359

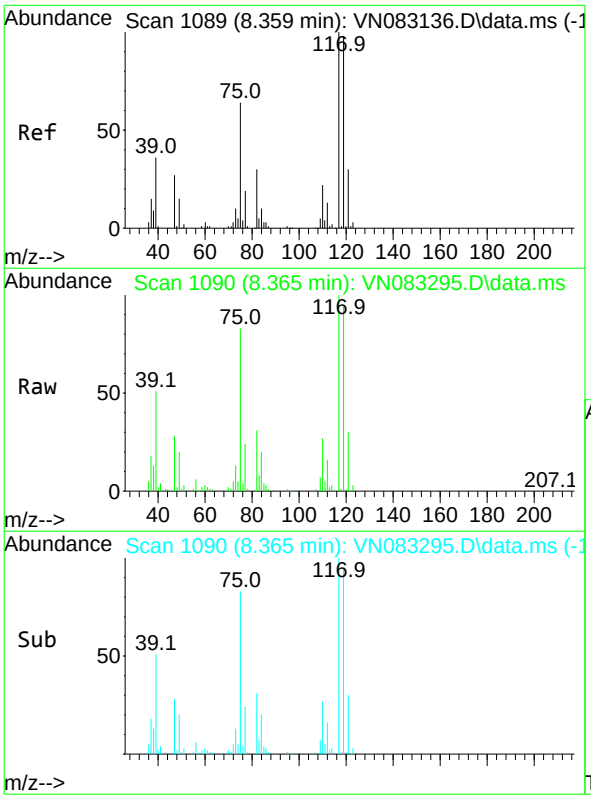
Ion	Ratio	Lower	Upper
43	100		
61	13.0	9.3	13.9
70	10.9	7.0	10.6#



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

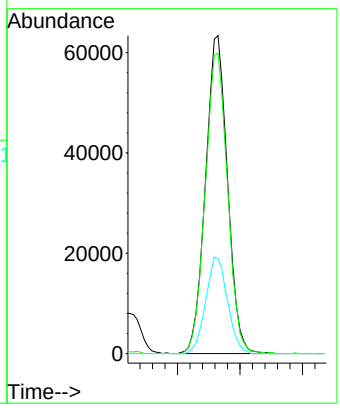
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

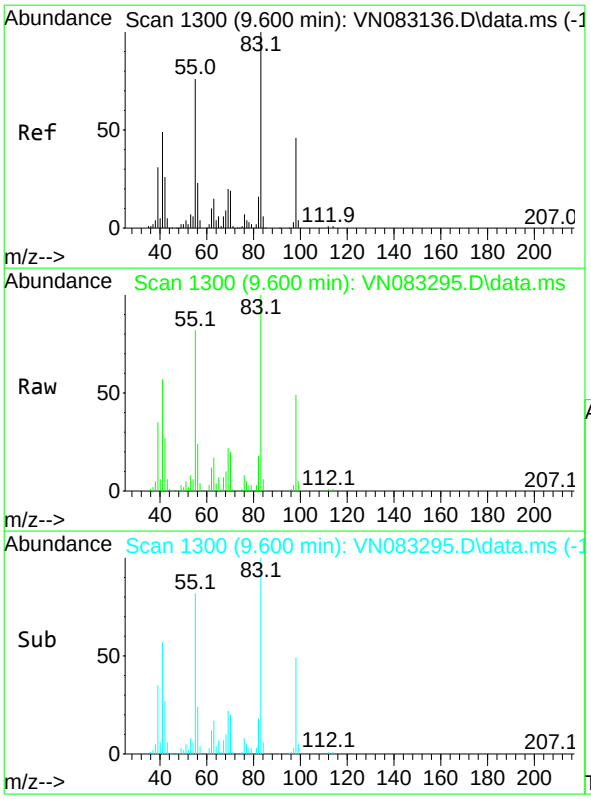


#38
Carbon Tetrachloride
Concen: 51.545 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.006 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion:117 Resp: 154915

Ion	Ratio	Lower	Upper
117	100		
119	94.4	74.9	112.3
121	29.9	24.3	36.5

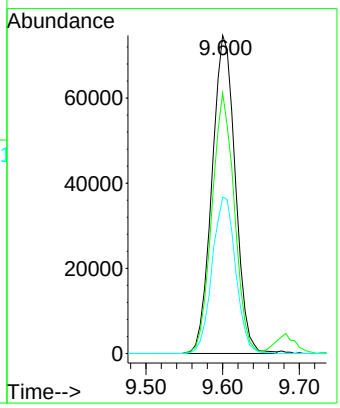




#39
Methylcyclohexane
Concen: 48.172 ug/l
RT: 9.600 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 83 Resp: 157882

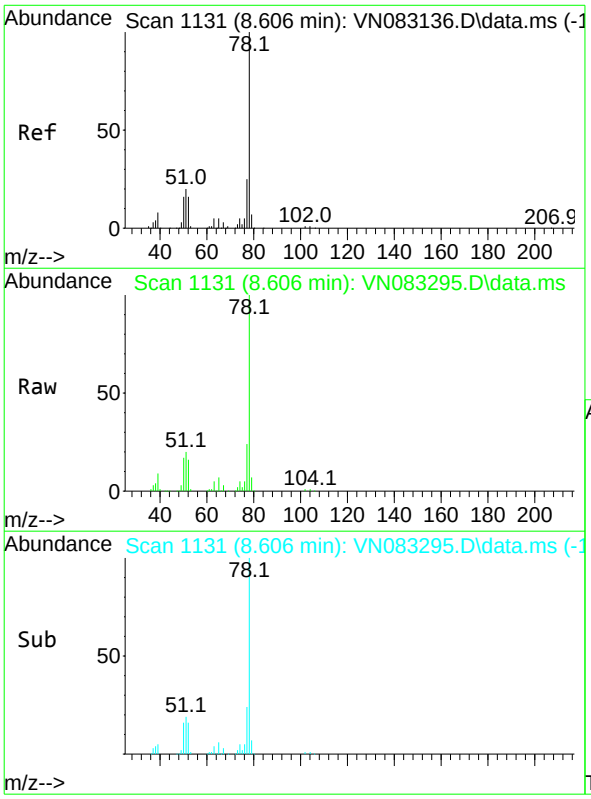
Ion	Ratio	Lower	Upper
83	100		
55	81.9	66.4	99.6
98	49.2	40.7	61.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

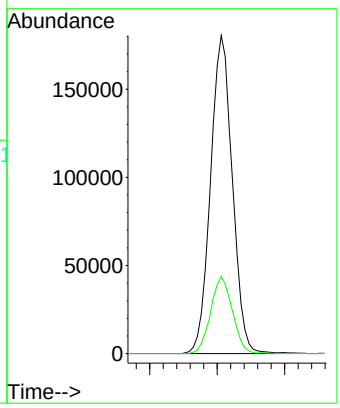
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

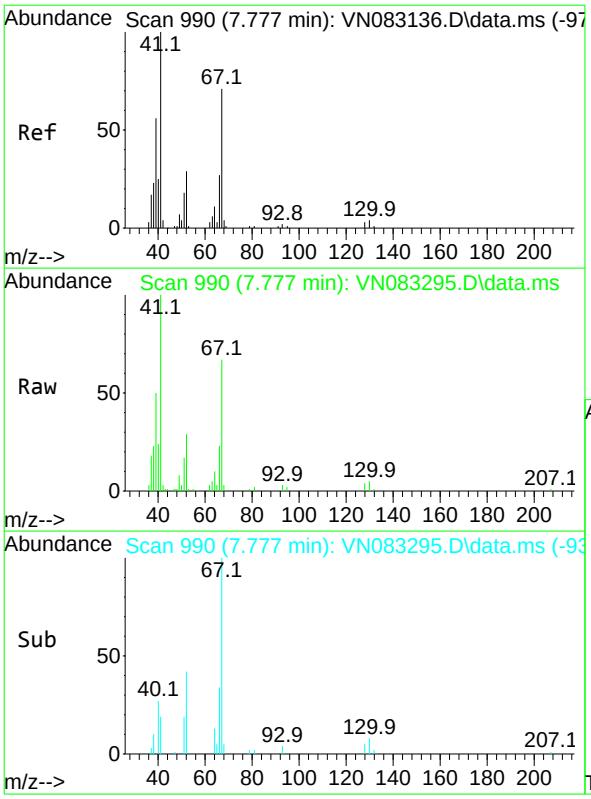


#40
Benzene
Concen: 50.937 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 78 Resp: 404907

Ion	Ratio	Lower	Upper
78	100		
77	24.3	19.0	28.4

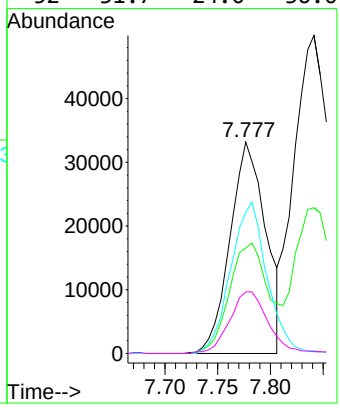




#41
Methacrylonitrile
Concen: 46.068 ug/l
RT: 7.777 min Scan# 99
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 41 Resp: 78258

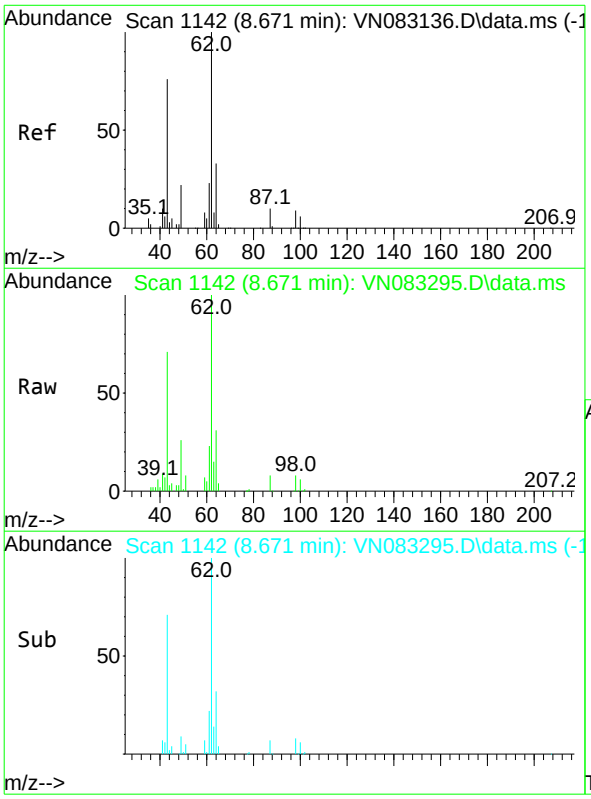
Ion	Ratio	Lower	Upper
41	100		
39	58.8	45.5	68.3
67	72.8	50.5	75.7
52	31.7	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

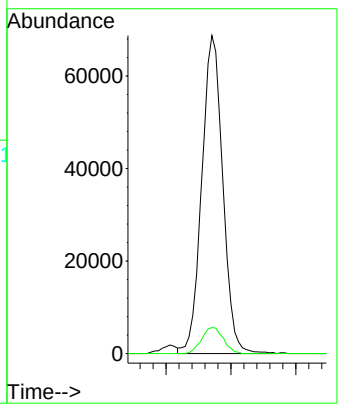
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

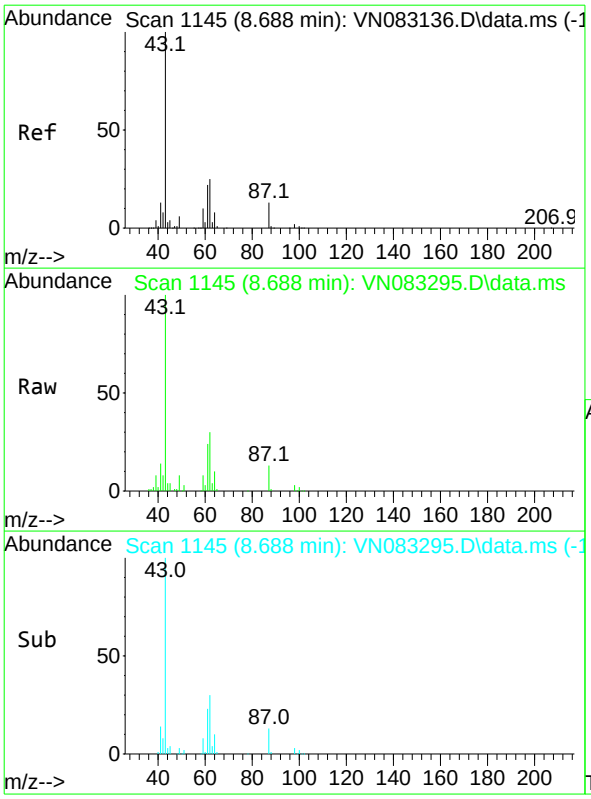


#42
1,2-Dichloroethane
Concen: 53.374 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 62 Resp: 154557

Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	15.8

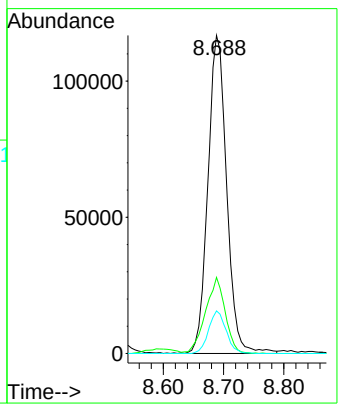




#43
Isopropyl Acetate
Concen: 48.708 ug/l
RT: 8.688 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 43 Resp: 252838

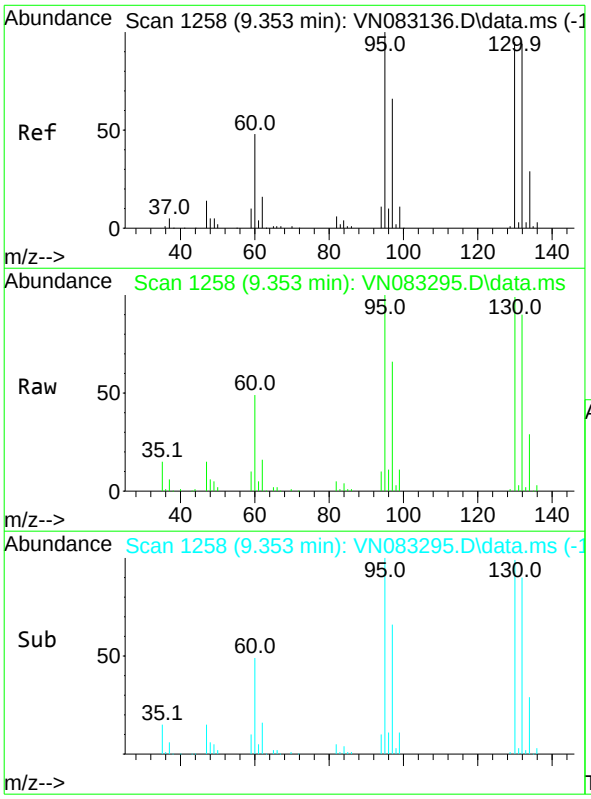
Ion	Ratio	Lower	Upper
43	100		
61	25.1	17.8	26.6
87	12.5	8.2	12.2#



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

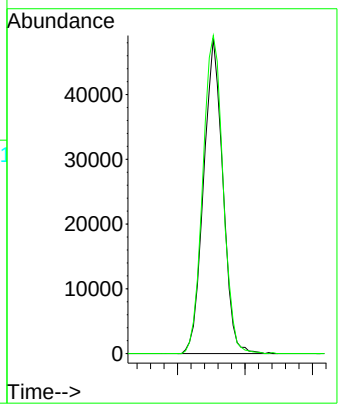
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

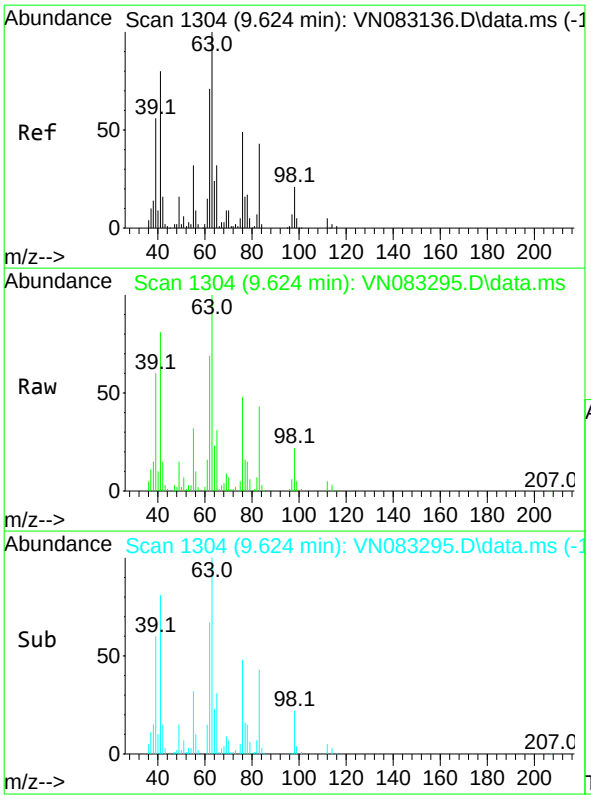


#44
Trichloroethene
Concen: 50.883 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion:130 Resp: 96274

Ion	Ratio	Lower	Upper
130	100		
95	100.8	0.0	197.8

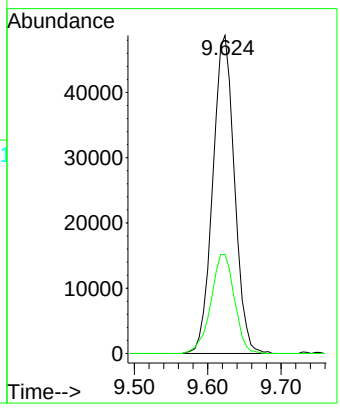




#45
1,2-Dichloropropane
Concen: 53.038 ug/l
RT: 9.624 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 63 Resp: 100079

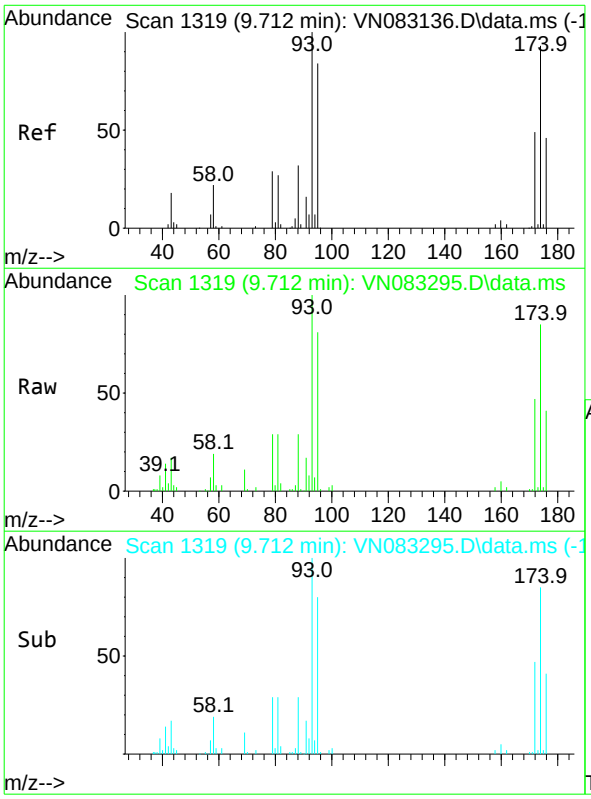
Ion	Ratio	Lower	Upper
63	100		
65	31.1	24.4	36.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

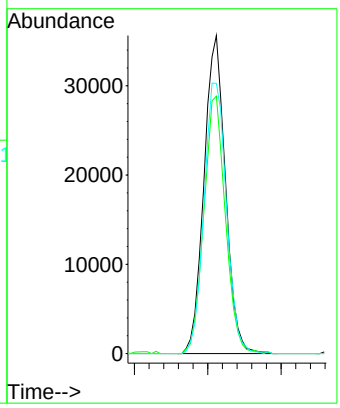
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

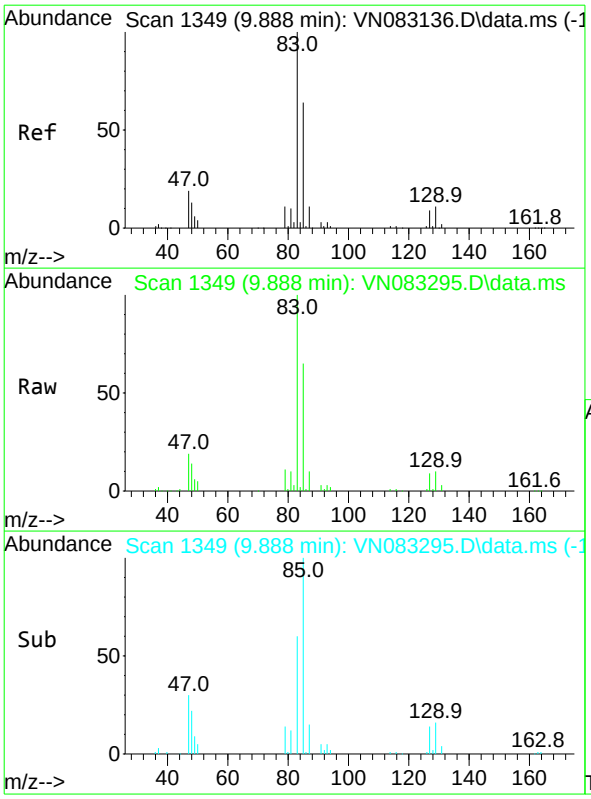


#46
Dibromomethane
Concen: 53.530 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 93 Resp: 72298

Ion	Ratio	Lower	Upper
93	100		
95	81.4	65.8	98.6
174	89.3	71.7	107.5

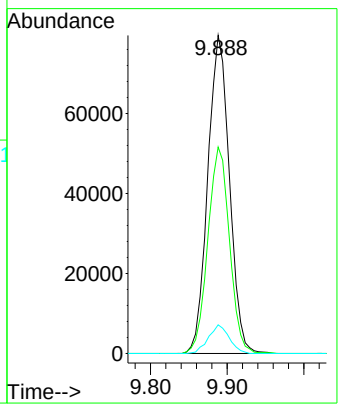




#47
Bromodichloromethane
Concen: 51.369 ug/l
RT: 9.888 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 83 Resp: 155782

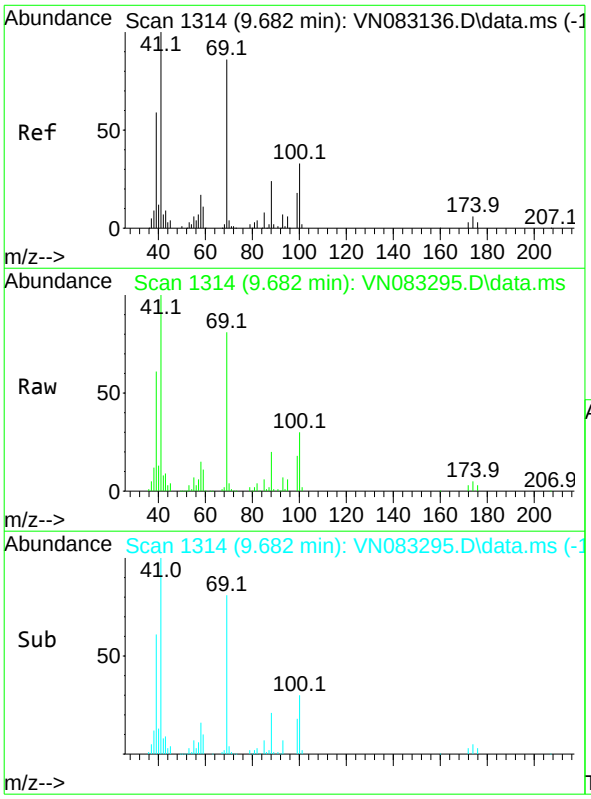
Ion	Ratio	Lower	Upper
83	100		
85	64.9	51.1	76.7
127	9.0	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

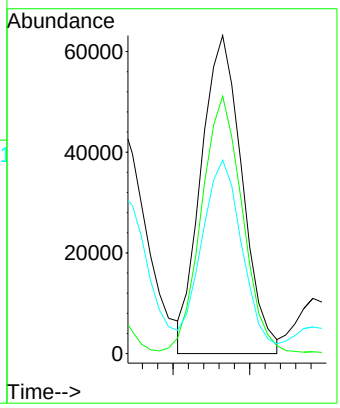
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

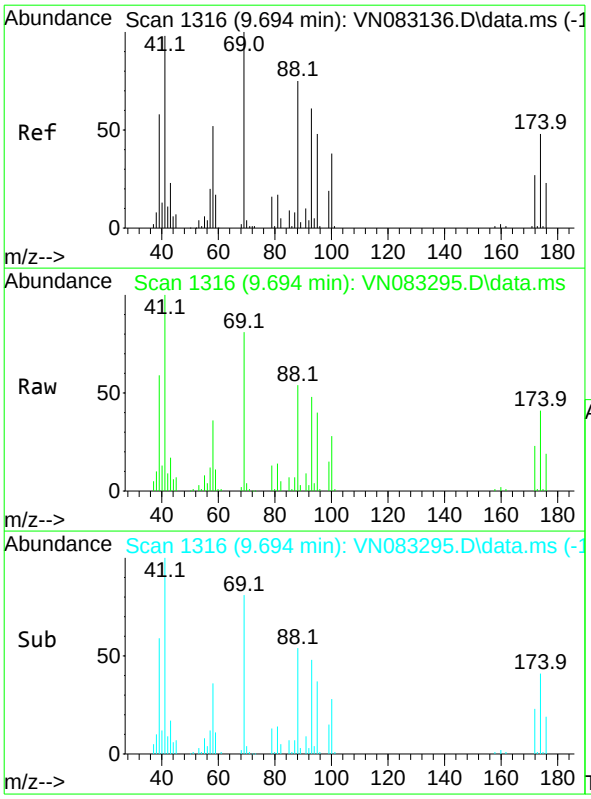


#48
Methyl methacrylate
Concen: 47.618 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 41 Resp: 117620

Ion	Ratio	Lower	Upper
41	100		
69	81.3	56.3	84.5
39	60.6	50.3	75.5

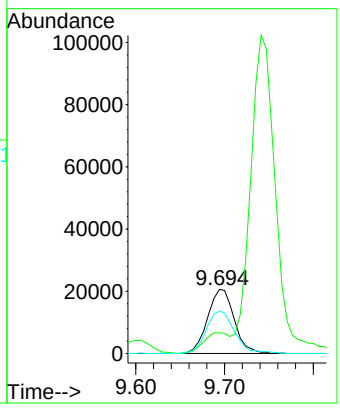




#49
1,4-Dioxane
Concen: 960.872 ug/l
RT: 9.694 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 88 Resp: 42819

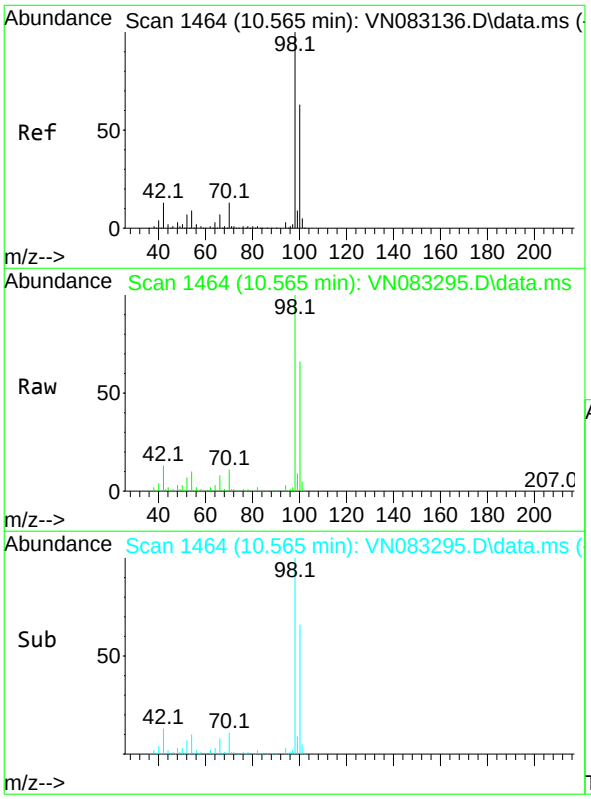
Ion	Ratio	Lower	Upper
88	100		
43	31.5	27.8	41.8
58	70.6	59.4	89.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

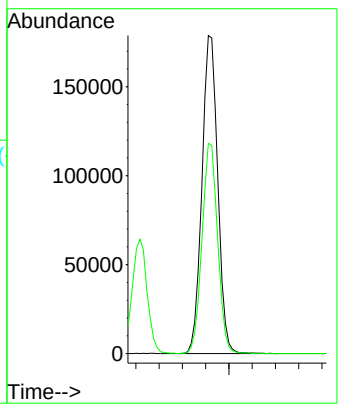
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

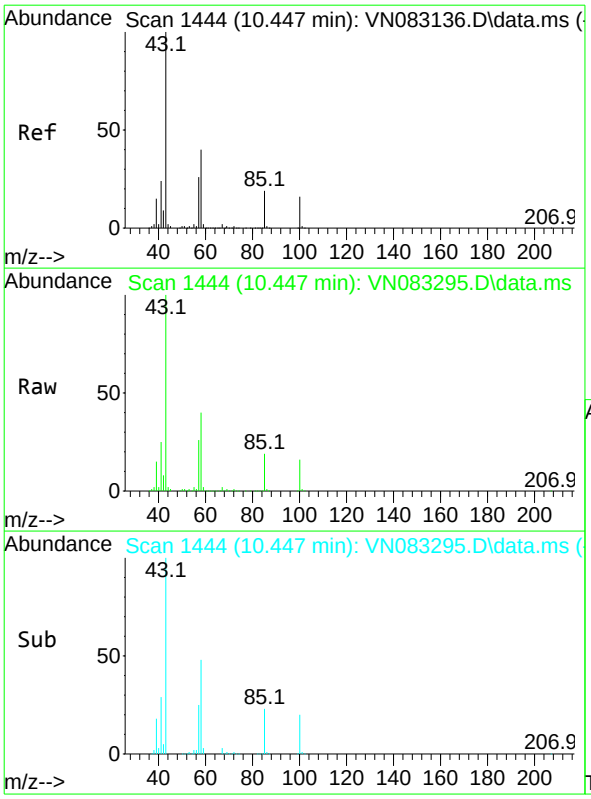


#50
Toluene-d8
Concen: 51.234 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 98 Resp: 337123

Ion	Ratio	Lower	Upper
98	100		
100	65.6	51.5	77.3

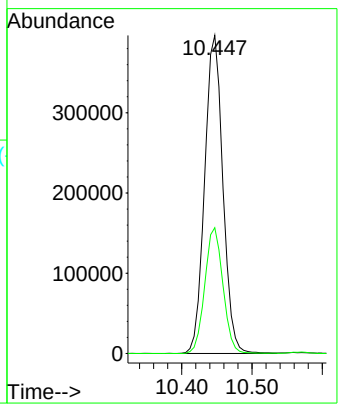




#51
4-Methyl-2-Pentanone
Concen: 253.043 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 43 Resp: 714918

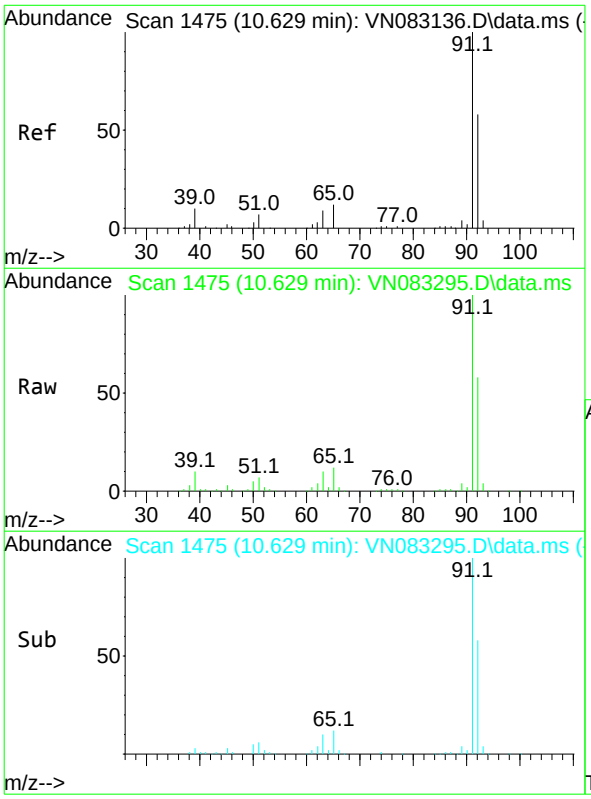
Ion	Ratio	Lower	Upper
43	100		
58	39.3	28.2	42.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

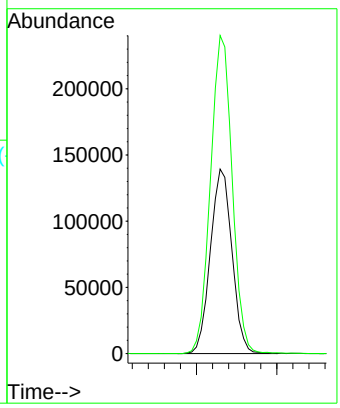
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

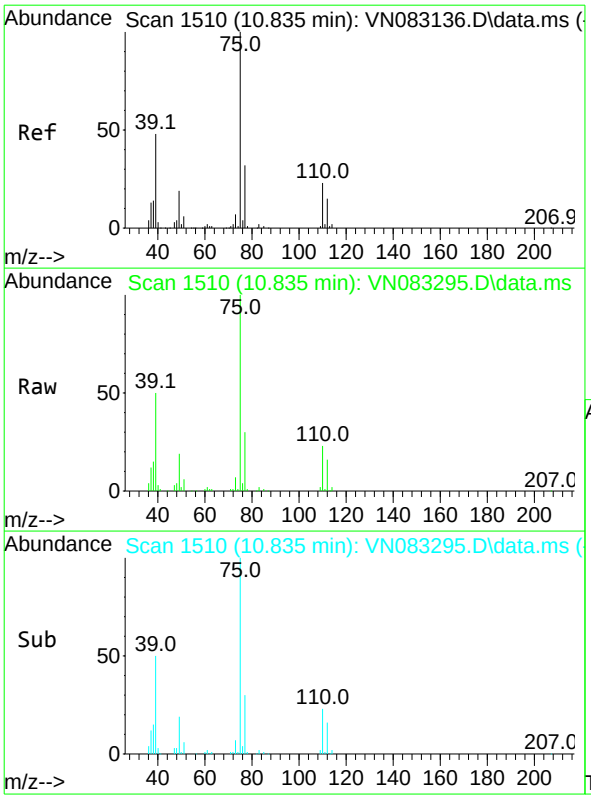


#52
Toluene
Concen: 51.813 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 92 Resp: 260237

Ion	Ratio	Lower	Upper
92	100		
91	173.2	139.4	209.0

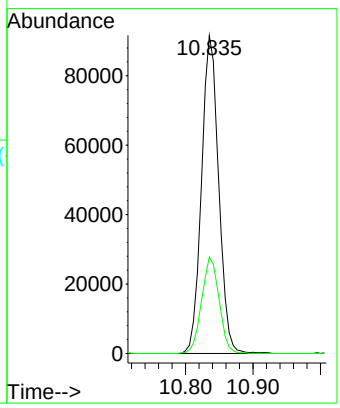




#53
t-1,3-Dichloropropene
Concen: 51.915 ug/l
RT: 10.835 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 75 Resp: 161721

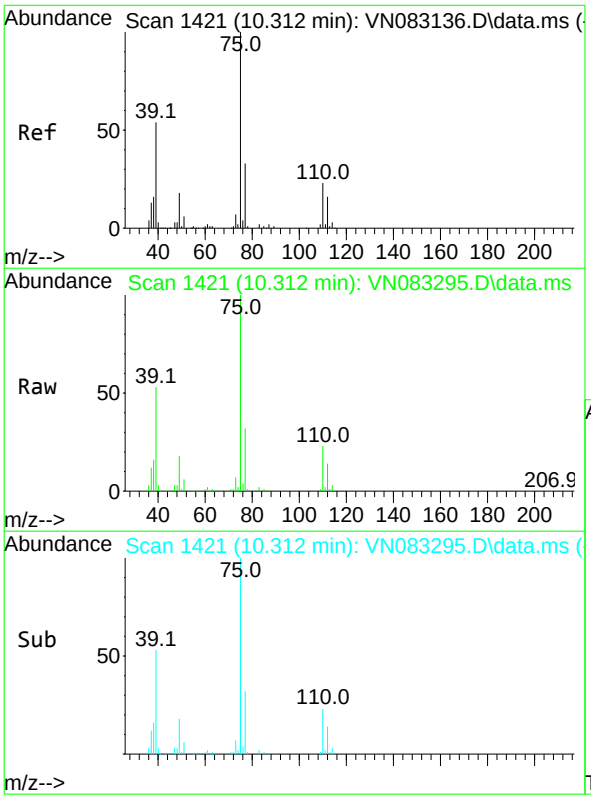
Ion	Ratio	Lower	Upper
75	100		
77	30.3	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

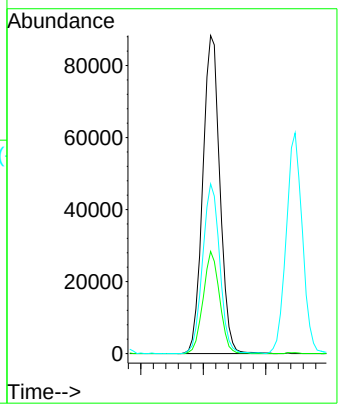
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

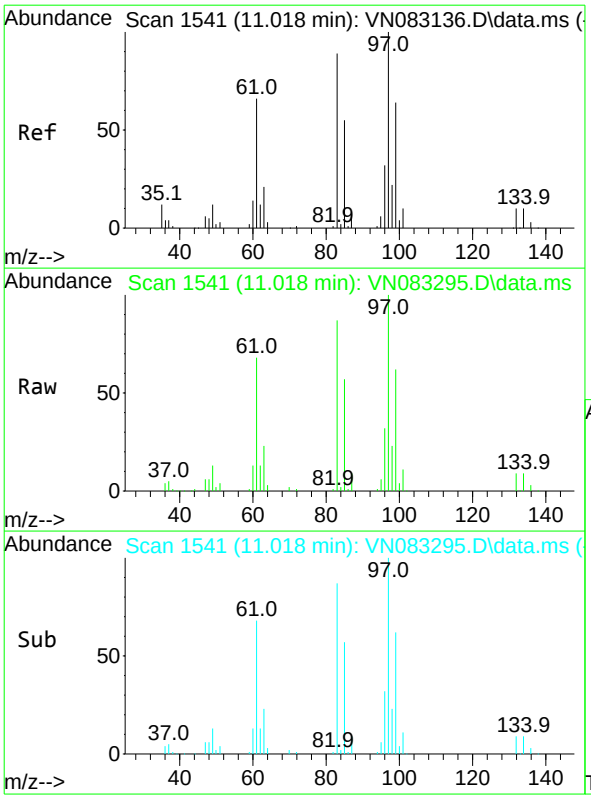


#54
cis-1,3-Dichloropropene
Concen: 50.753 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 75 Resp: 168161

Ion	Ratio	Lower	Upper
75	100		
77	32.1	24.3	36.5
39	53.4	50.5	75.7

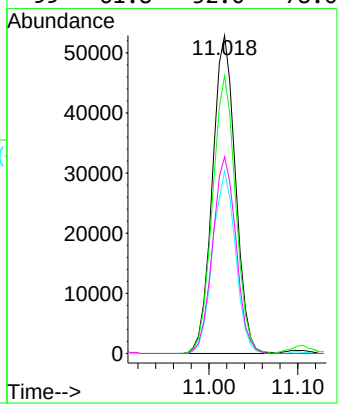




#55
1,1,2-Trichloroethane
Concen: 53.110 ug/l
RT: 11.018 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 97 Resp: 95596

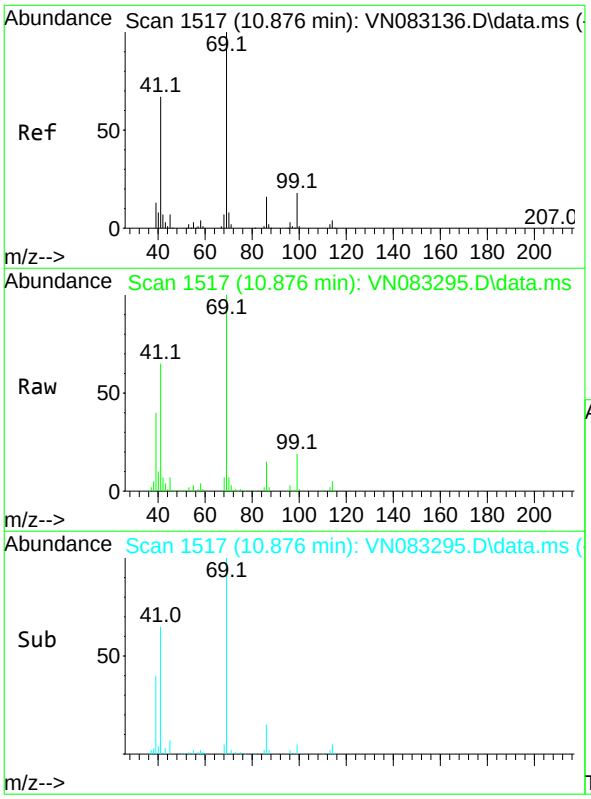
Ion	Ratio	Lower	Upper
97	100		
83	87.3	71.4	107.0
85	57.3	45.8	68.6
99	61.8	52.0	78.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

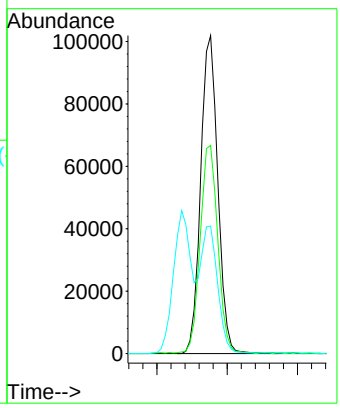
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

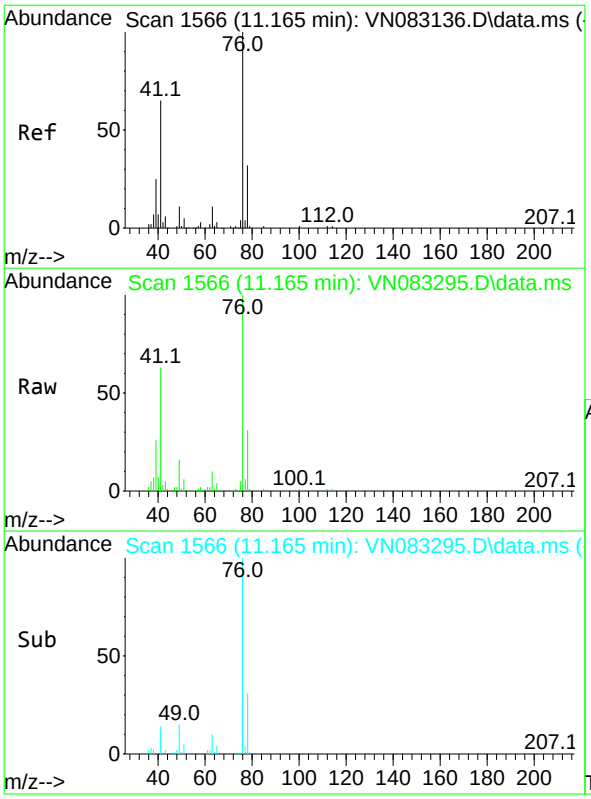


#56
Ethyl methacrylate
Concen: 50.792 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 69 Resp: 172350

Ion	Ratio	Lower	Upper
69	100		
41	66.8	63.4	95.2
39	41.7	37.4	56.0

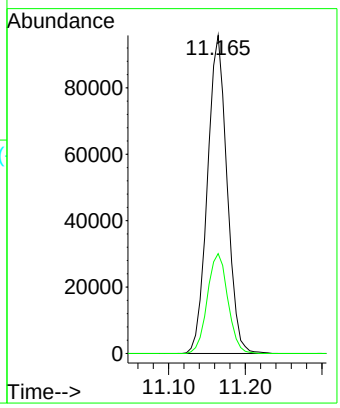




#57
1,3-Dichloropropane
Concen: 52.864 ug/l
RT: 11.165 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 76 Resp: 169602

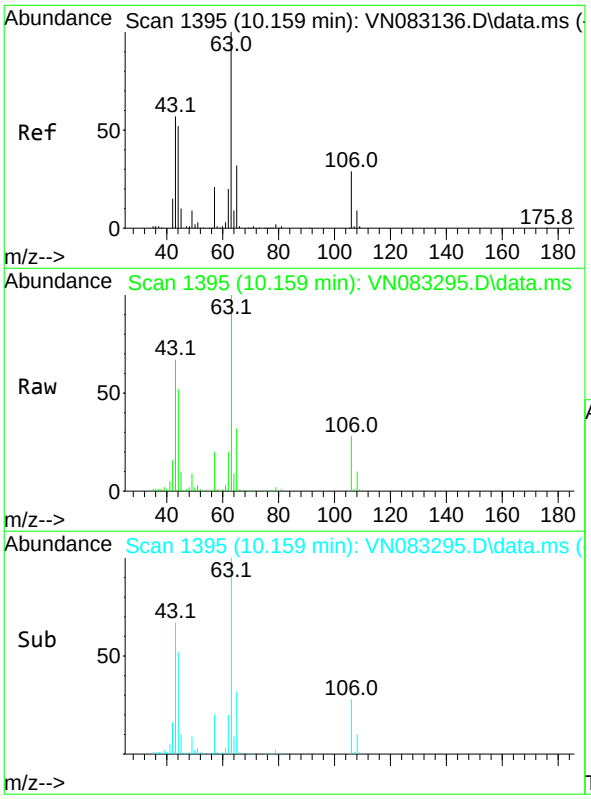
Ion	Ratio	Lower	Upper
76	100		
78	32.9	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

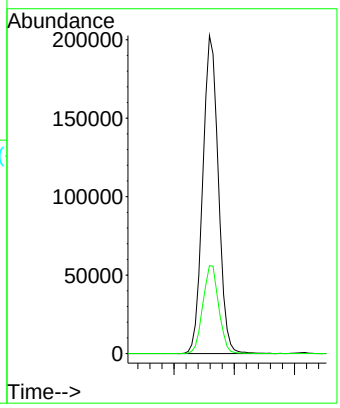
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

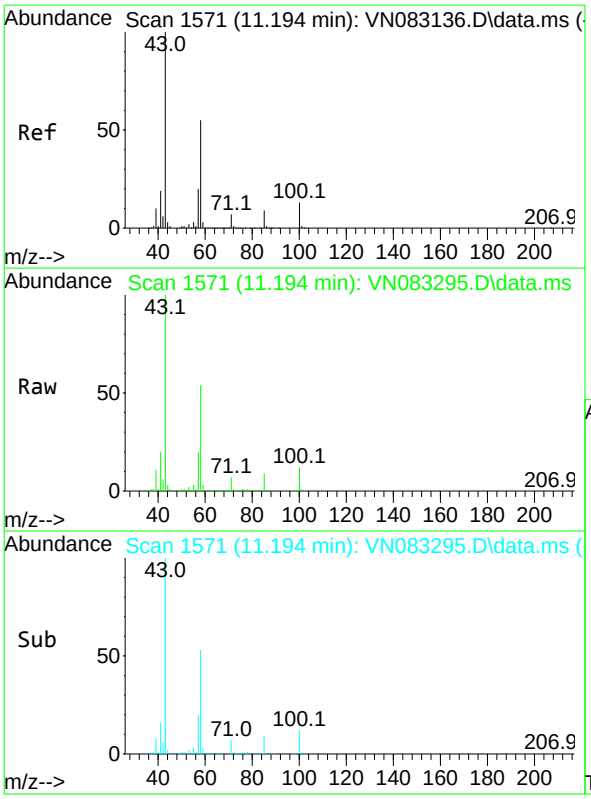


#58
2-Chloroethyl Vinyl ether
Concen: 253.780 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 63 Resp: 364003

Ion	Ratio	Lower	Upper
63	100		
106	28.2	21.4	32.0

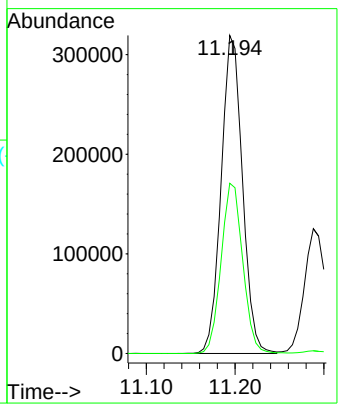




#59
2-Hexanone
Concen: 243.668 ug/l
RT: 11.194 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 43 Resp: 532597

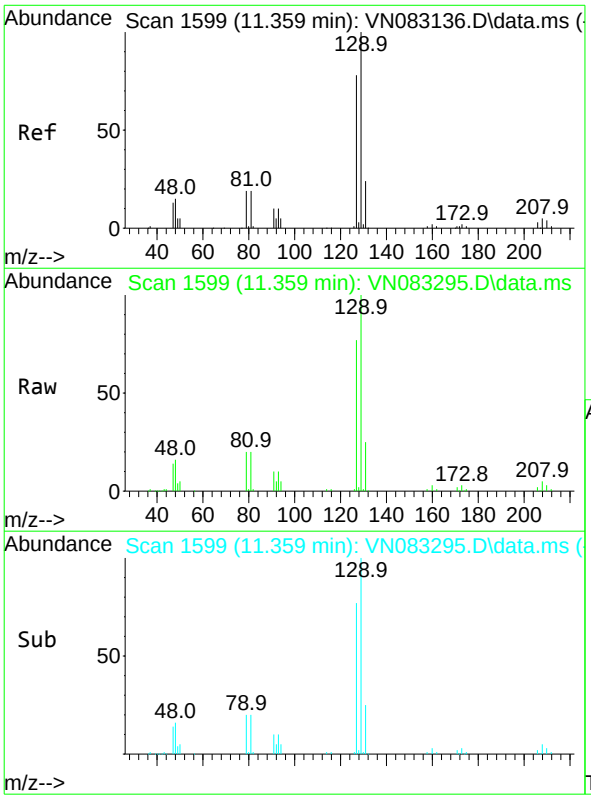
Ion	Ratio	Lower	Upper
43	100		
58	54.3	24.6	73.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

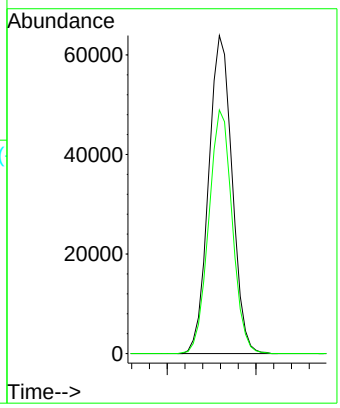
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

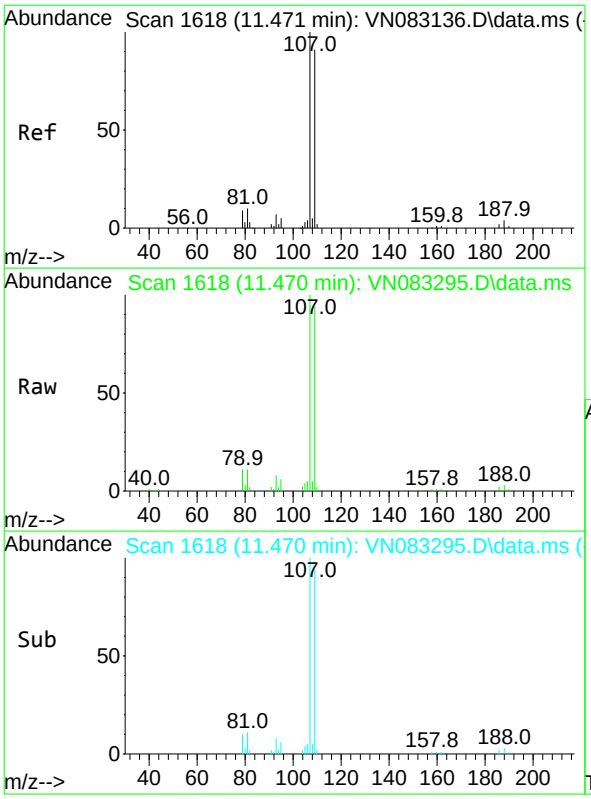


#60
Dibromochloromethane
Concen: 54.062 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion:129 Resp: 117651

Ion	Ratio	Lower	Upper
129	100		
127	76.5	39.2	117.6

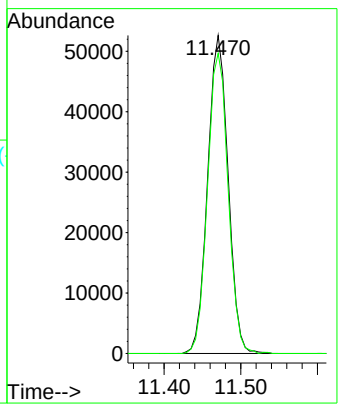




#61
1,2-Dibromoethane
Concen: 51.595 ug/l
RT: 11.470 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion:107 Resp: 97558

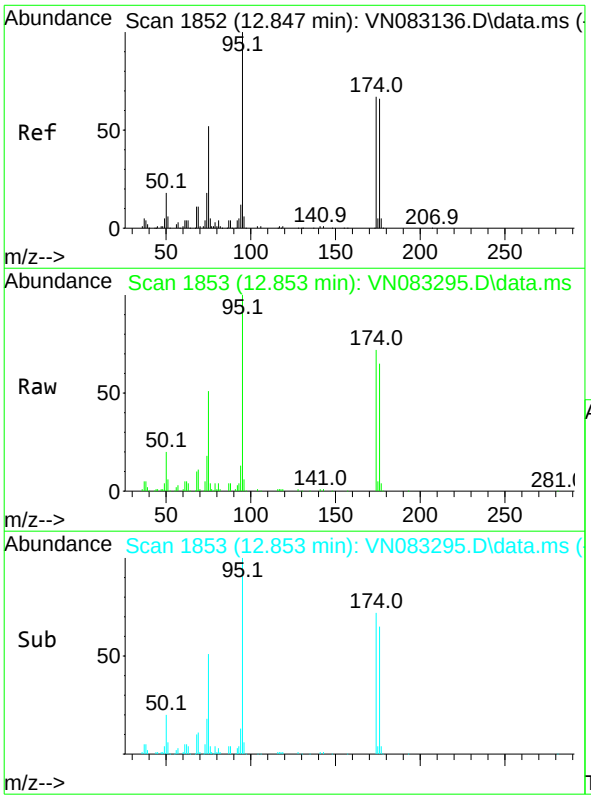
Ion	Ratio	Lower	Upper
107	100		
109	94.9	73.7	110.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

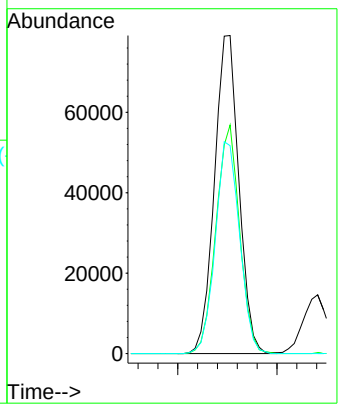
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

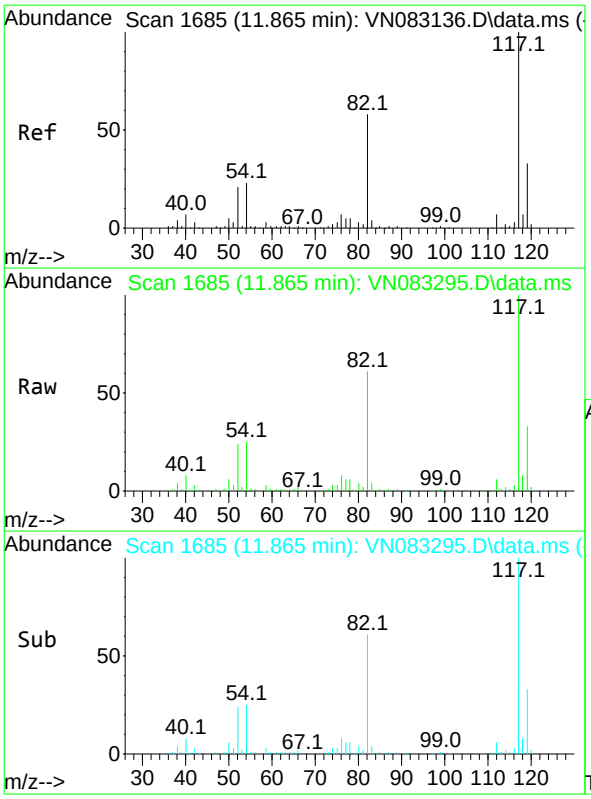


#62
4-Bromofluorobenzene
Concen: 52.757 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 95 Resp: 135336

Ion	Ratio	Lower	Upper
95	100		
174	69.6	0.0	159.2
176	66.4	0.0	147.6

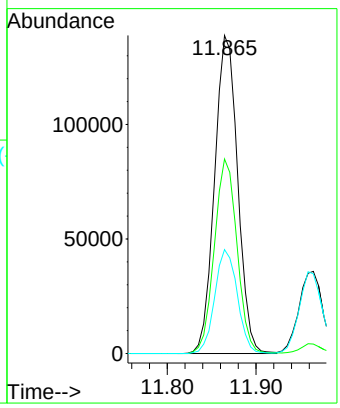




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion:117 Resp: 250996

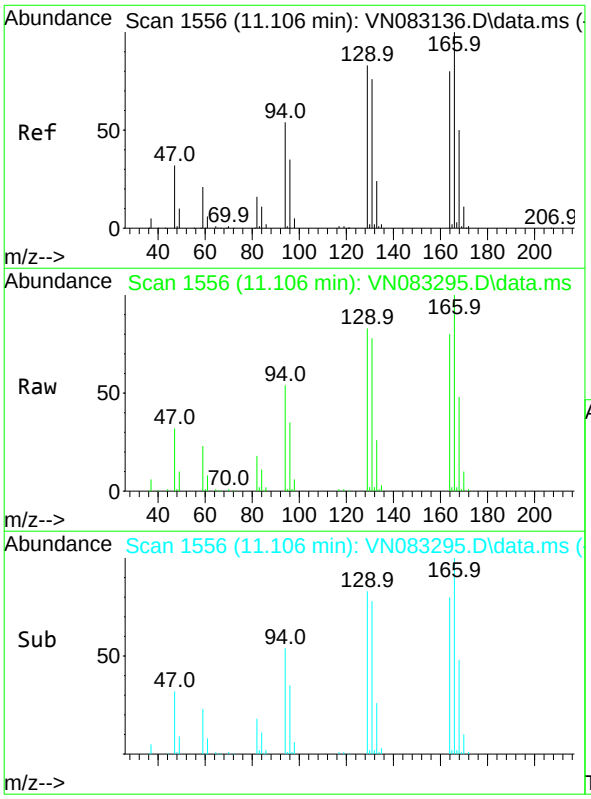
Ion	Ratio	Lower	Upper
117	100		
82	61.1	47.5	71.3
119	32.7	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

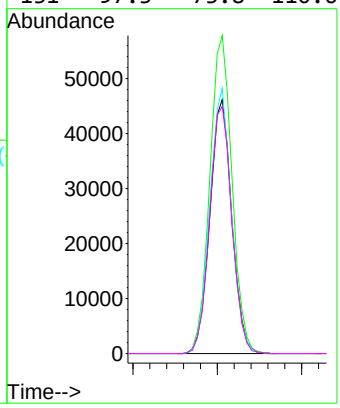
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

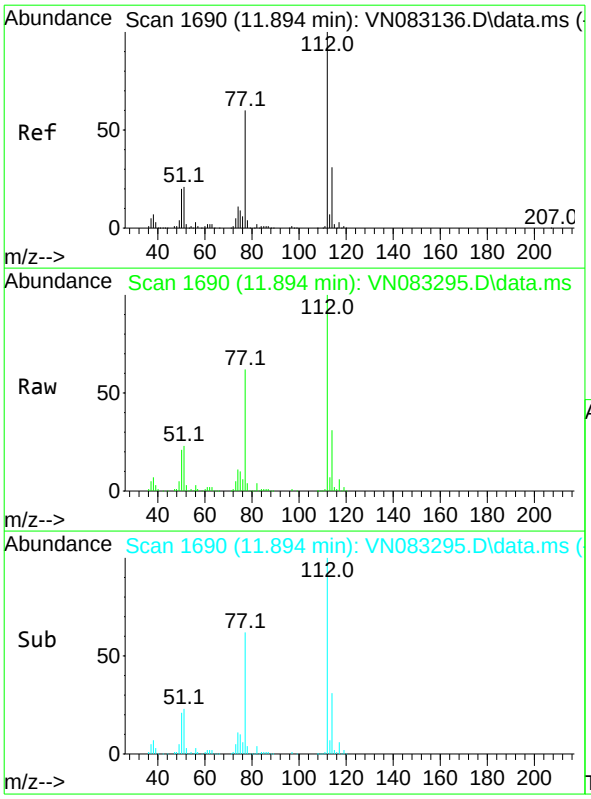


#64
Tetrachloroethene
Concen: 50.230 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion:164 Resp: 83497

Ion	Ratio	Lower	Upper
164	100		
166	125.2	101.4	152.0
129	104.5	75.7	113.5
131	97.3	73.8	110.6

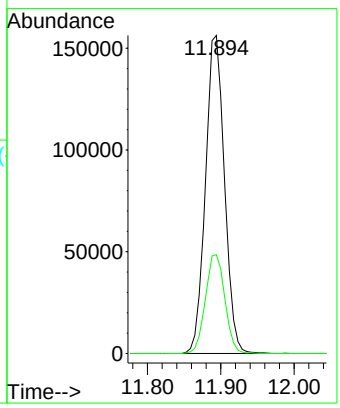




#65
Chlorobenzene
Concen: 50.640 ug/l
RT: 11.894 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion:112 Resp: 280885

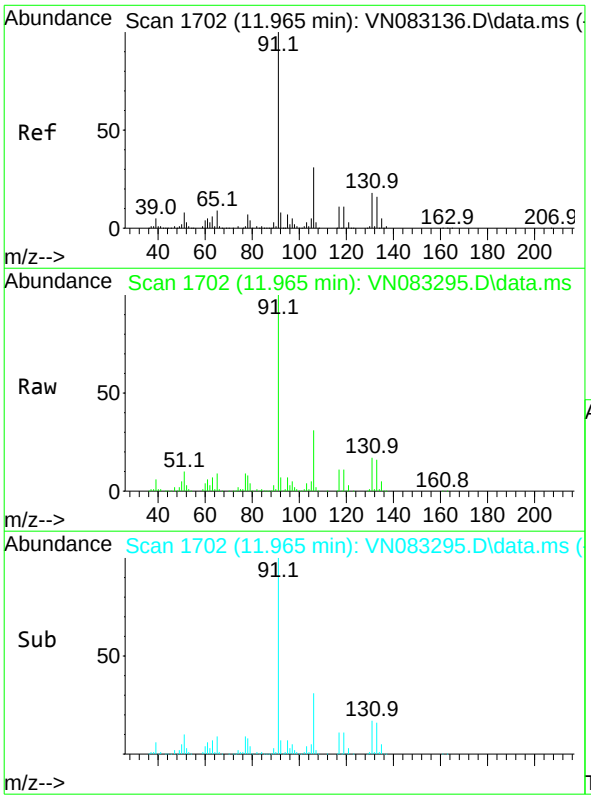
Ion	Ratio	Lower	Upper
112	100		
114	31.1	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

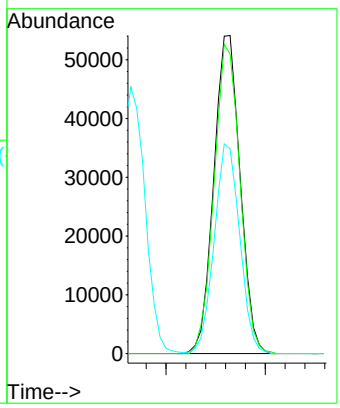
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

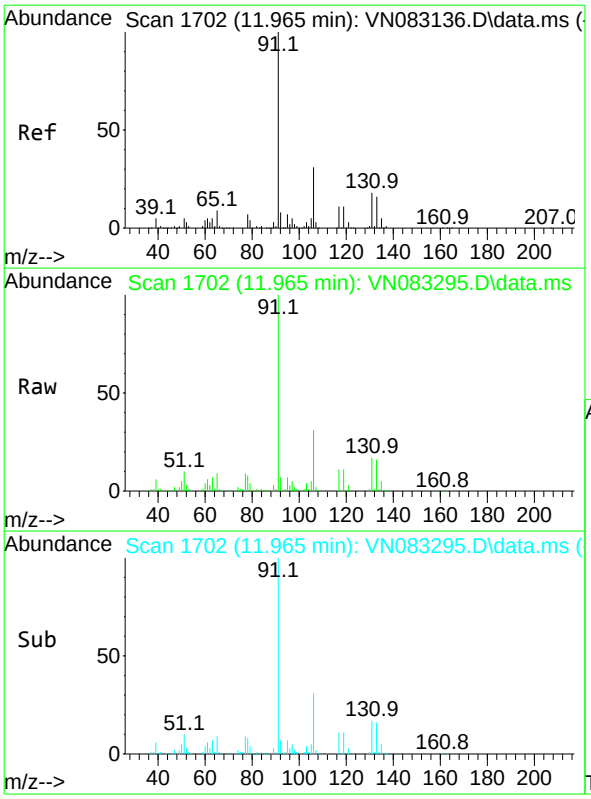


#66
1,1,1,2-Tetrachloroethane
Concen: 50.961 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion:131 Resp: 99691

Ion	Ratio	Lower	Upper
131	100		
133	95.5	47.3	142.0
119	64.0	32.5	97.4





#67
Ethyl Benzene
Concen: 51.124 ug/l
RT: 11.965 min Scan# 17
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

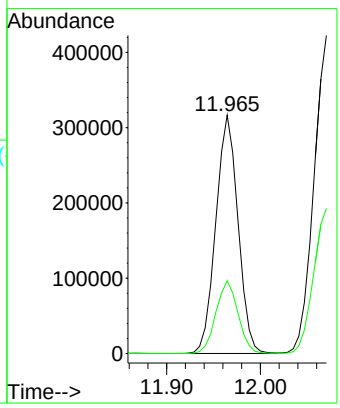
Tgt Ion: 91 Resp: 520196

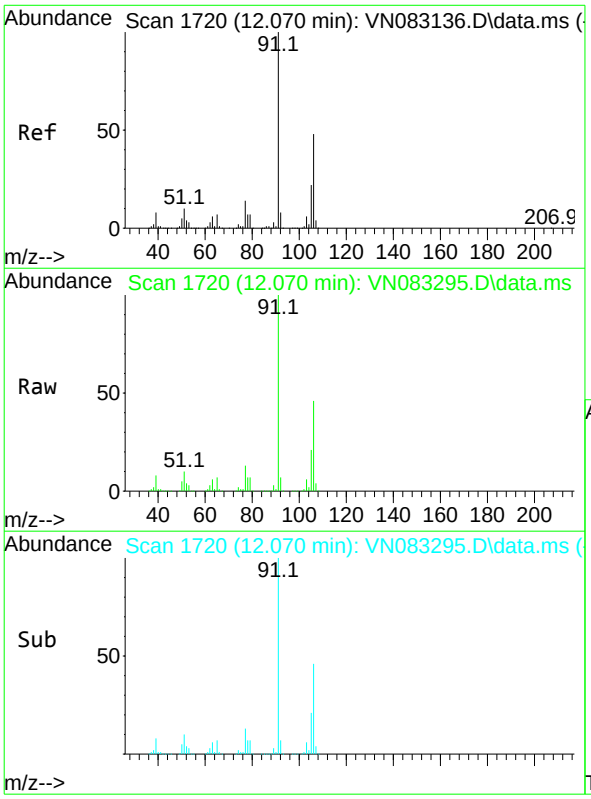
Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.0	36.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

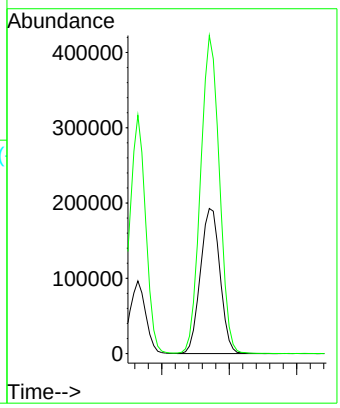


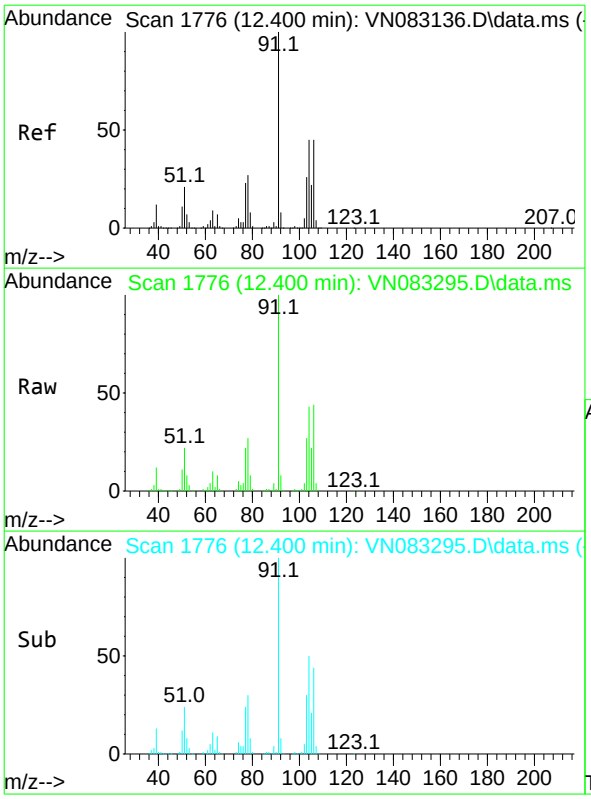


#68
m/p-Xylenes
Concen: 102.048 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion:106 Resp: 388963

Ion	Ratio	Lower	Upper
106	100		
91	211.2	166.1	249.1

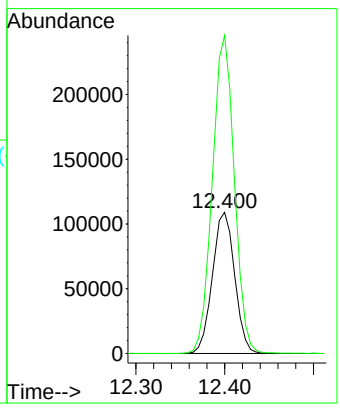




#69
o-Xylene
Concen: 50.450 ug/l
RT: 12.400 min Scan# 17
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion:106 Resp: 189655

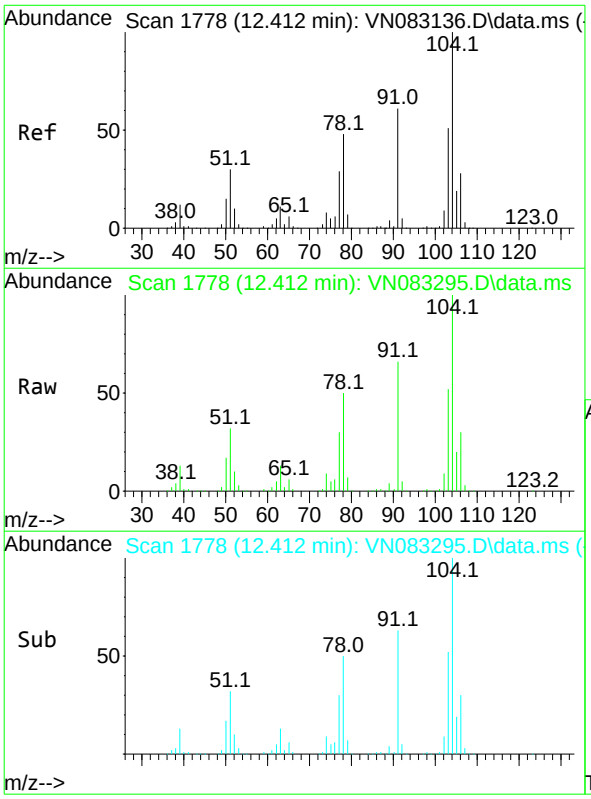
Ion	Ratio	Lower	Upper
106	100		
91	222.9	111.3	333.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

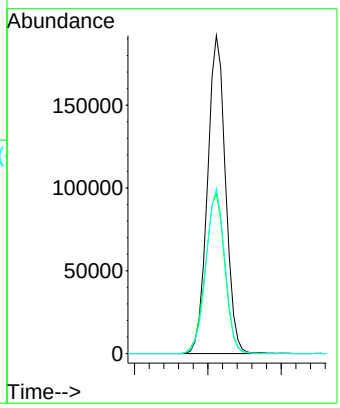
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

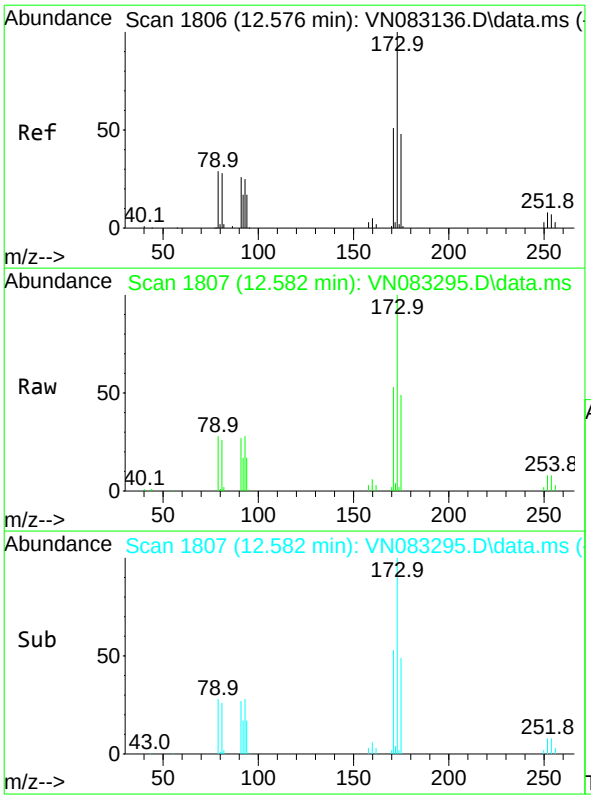


#70
Styrene
Concen: 51.874 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion:104 Resp: 327524

Ion	Ratio	Lower	Upper
104	100		
78	54.0	41.6	62.4
103	54.5	44.0	66.0





#71
Bromoform
Concen: 50.218 ug/l
RT: 12.582 min Scan# 18
Delta R.T. 0.006 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

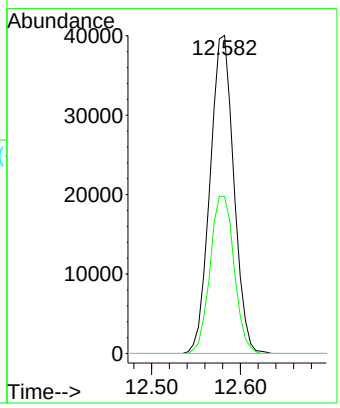
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

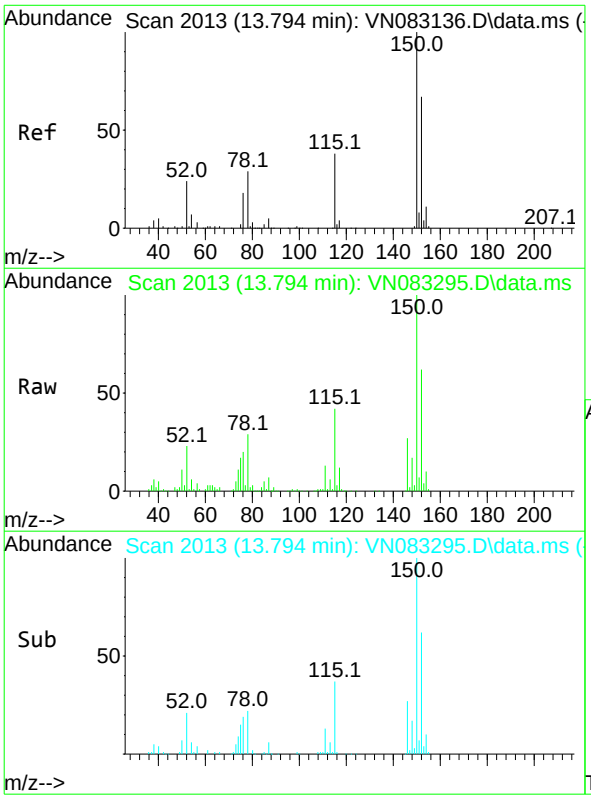
Tgt Ion:173 Resp: 74422

Ion	Ratio	Lower	Upper
173	100		
175	50.1	24.0	72.0
254	0.0	0.0	0.0

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

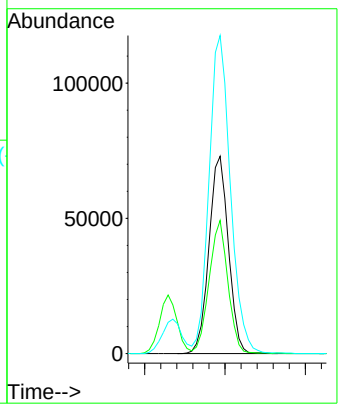


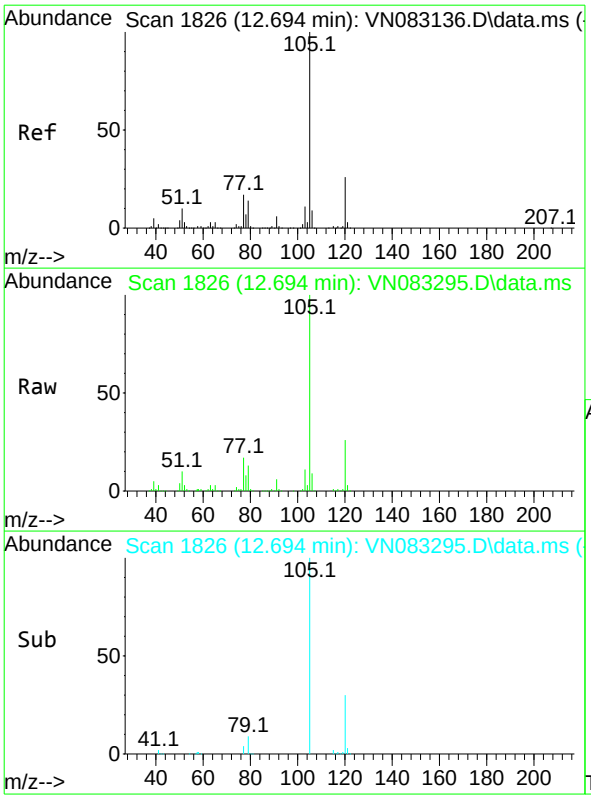


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion:152 Resp: 122669

Ion	Ratio	Lower	Upper
152	100		
115	65.3	30.6	91.6
150	177.2	0.0	348.6

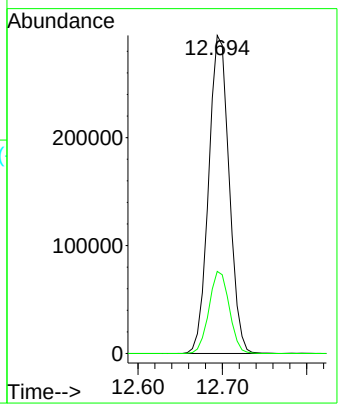




#73
Isopropylbenzene
Concen: 48.403 ug/l
RT: 12.694 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion:105 Resp: 496635

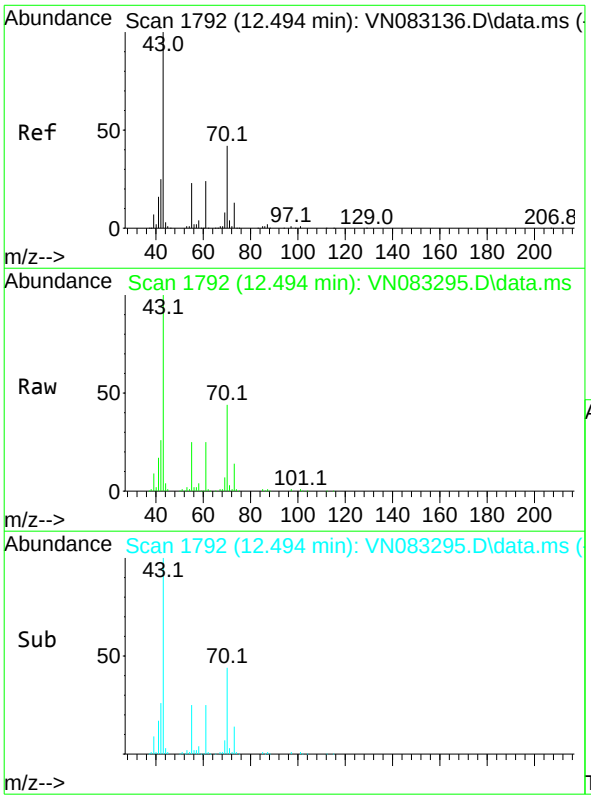
Ion	Ratio	Lower	Upper
105	100		
120	25.6	12.9	38.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

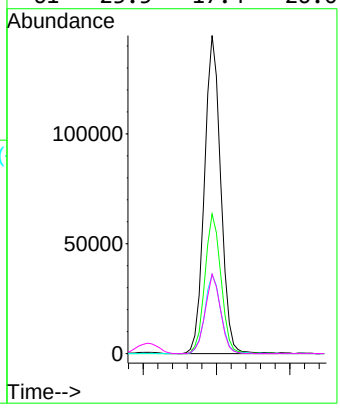
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

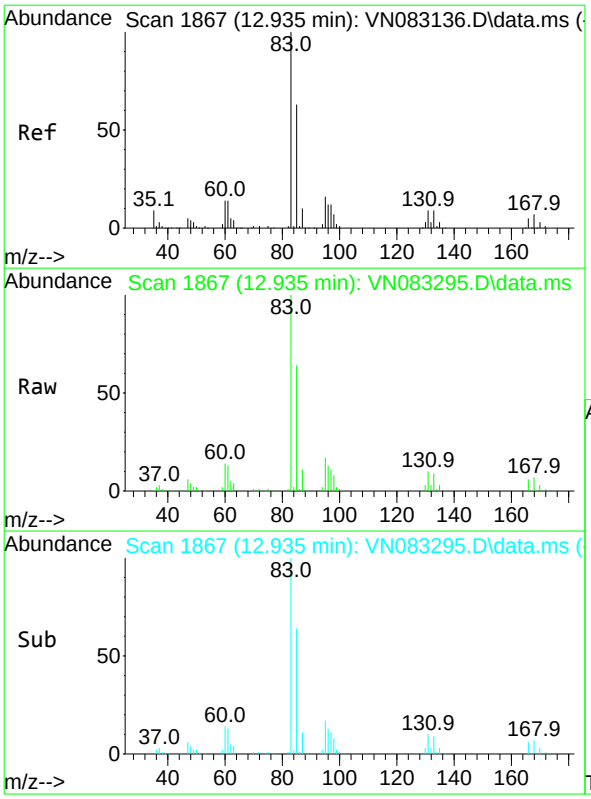


#74
N-amyl acetate
Concen: 44.635 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 43 Resp: 224010

Ion	Ratio	Lower	Upper
43	100		
70	43.2	29.8	44.6
55	24.3	18.7	28.1
61	23.5	17.4	26.0

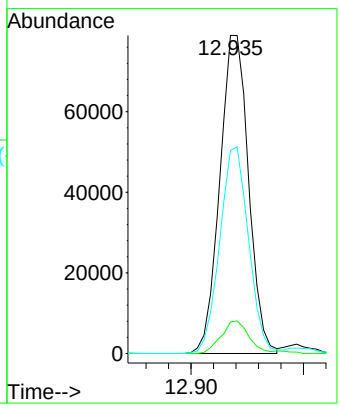




#75
1,1,2,2-Tetrachloroethane
Concen: 48.328 ug/l
RT: 12.935 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 83 Resp: 140246

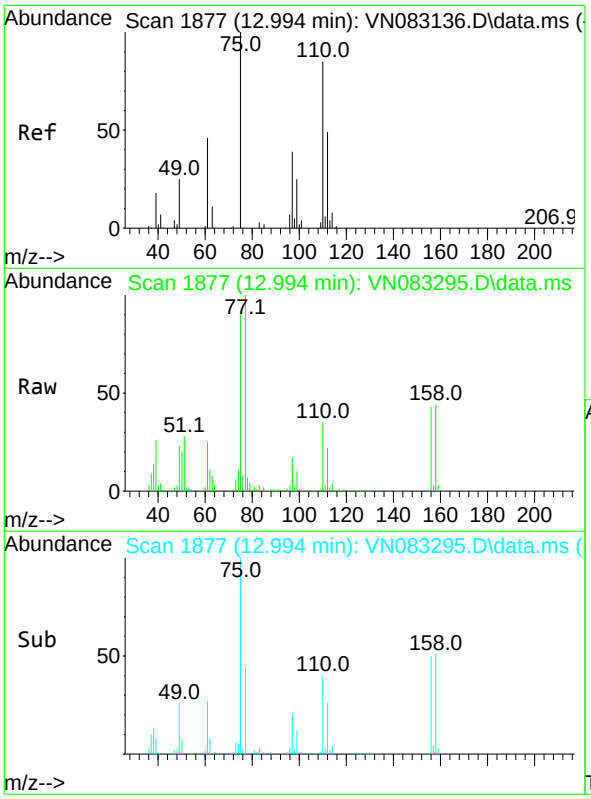
Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.0	14.9
85	65.1	31.9	95.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

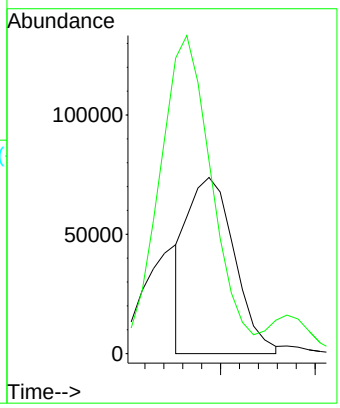
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

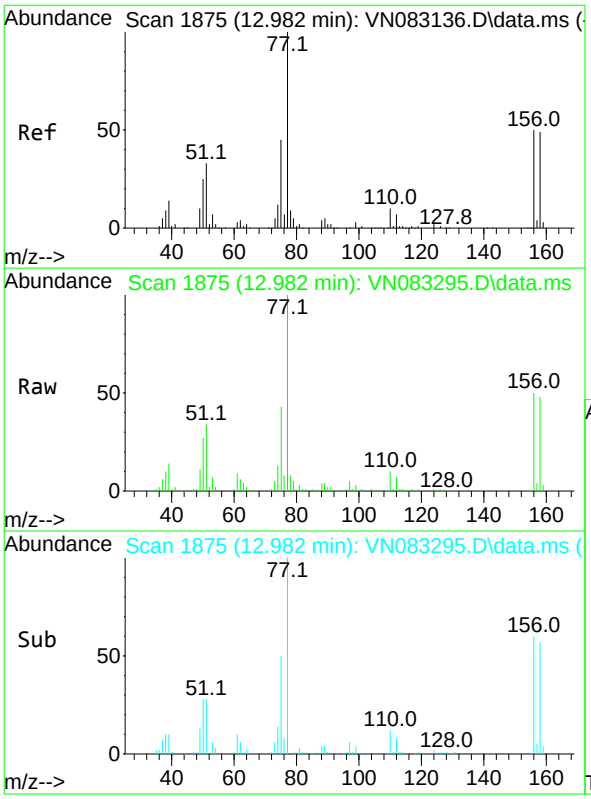


#76
1,2,3-Trichloropropane
Concen: 47.602 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 75 Resp: 128158

Ion	Ratio	Lower	Upper
75	100		
77	202.2	110.9	332.6

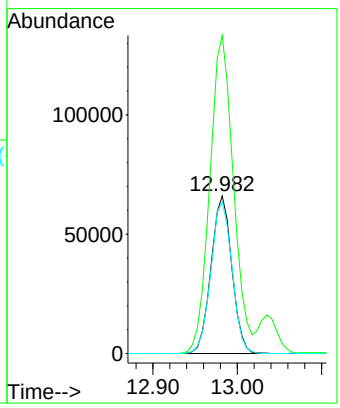




#77
Bromobenzene
Concen: 49.656 ug/l
RT: 12.982 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion:156 Resp: 113178

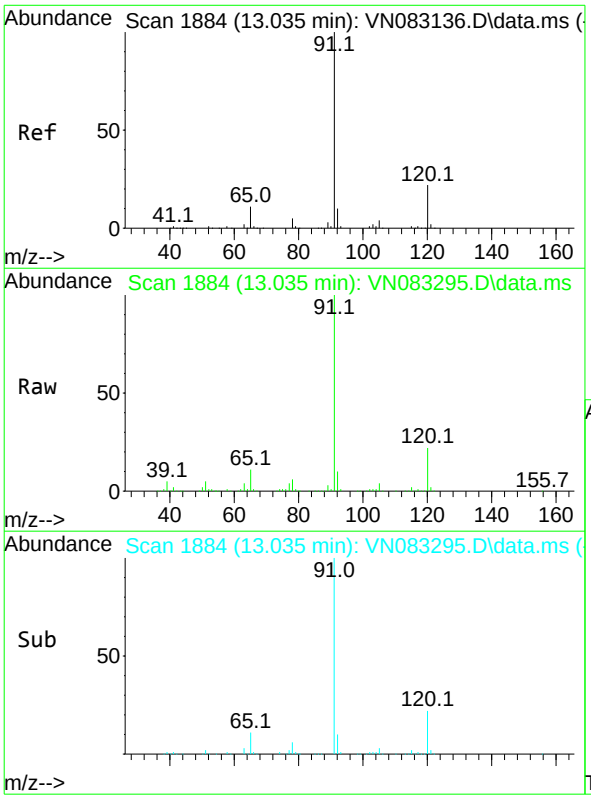
Ion	Ratio	Lower	Upper
156	100		
77	228.9	111.3	333.8
158	97.7	48.3	144.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

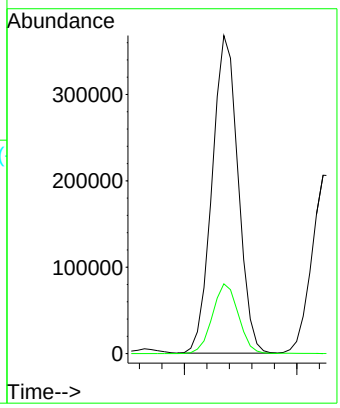
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

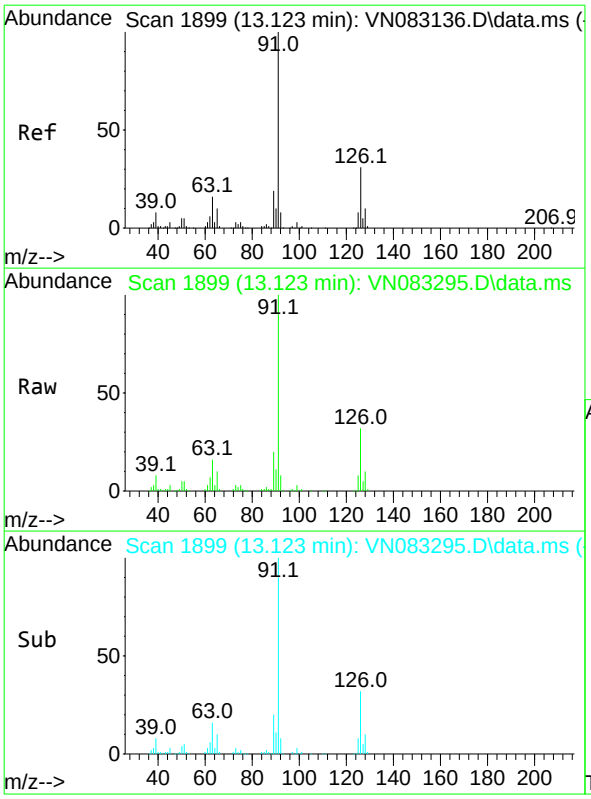


#78
n-propylbenzene
Concen: 49.938 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 91 Resp: 590000

Ion	Ratio	Lower	Upper
91	100		
120	21.9	10.9	32.9

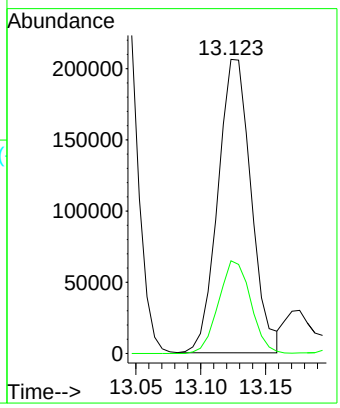




#79
2-Chlorotoluene
Concen: 49.125 ug/l
RT: 13.123 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 91 Resp: 367969

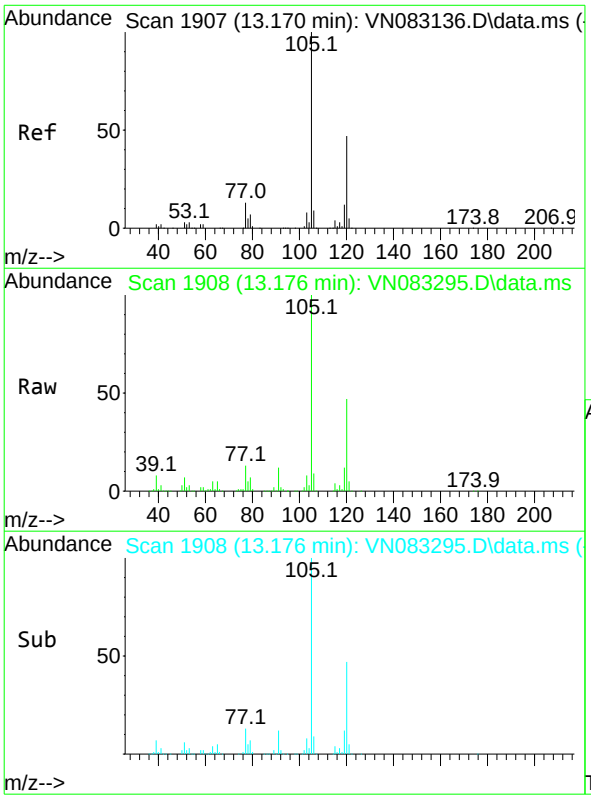
Ion	Ratio	Lower	Upper
91	100		
126	30.5	16.2	48.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

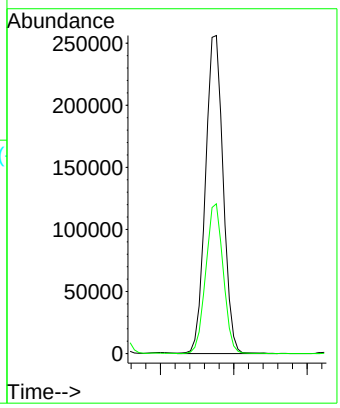
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

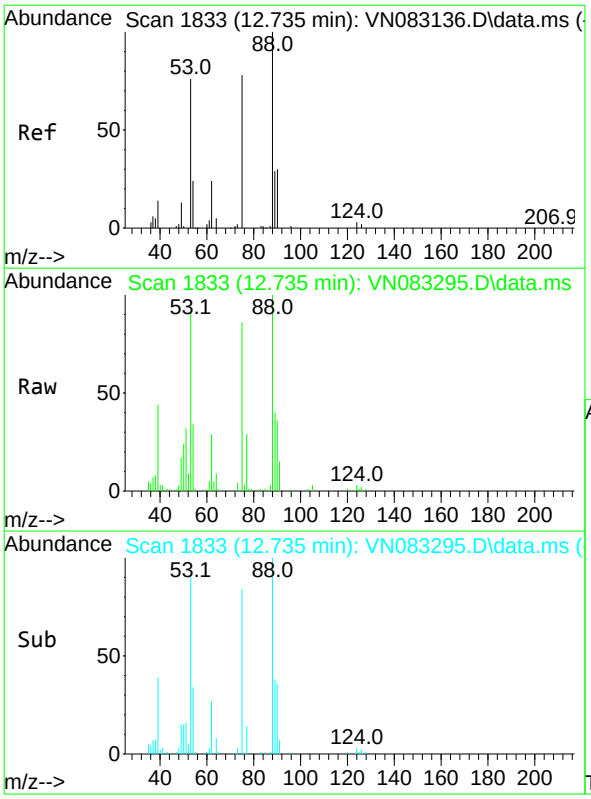


#80
1,3,5-Trimethylbenzene
Concen: 49.829 ug/l
RT: 13.176 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion:105 Resp: 428037

Ion	Ratio	Lower	Upper
105	100		
120	46.5	24.3	72.8





#81
trans-1,4-Dichloro-2-butene
Concen: 45.962 ug/l
RT: 12.735 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

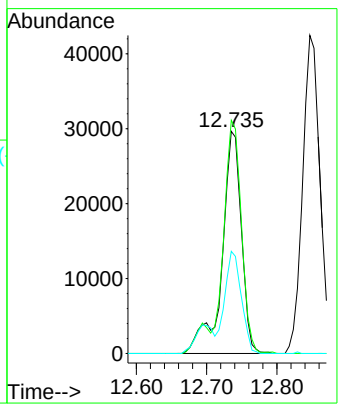
Tgt Ion: 75 Resp: 56887

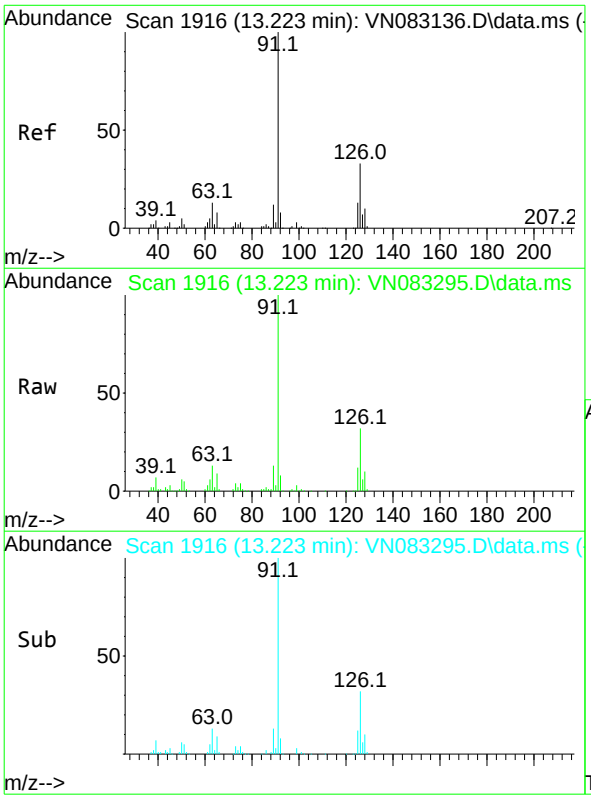
Ion	Ratio	Lower	Upper
75	100		
53	94.1	88.4	132.6
89	39.6	36.3	54.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

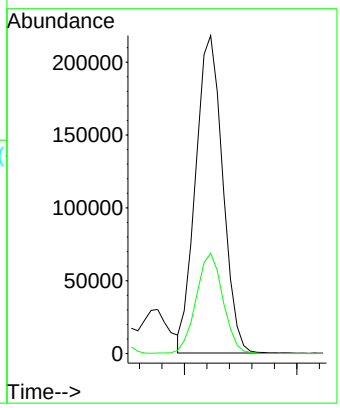


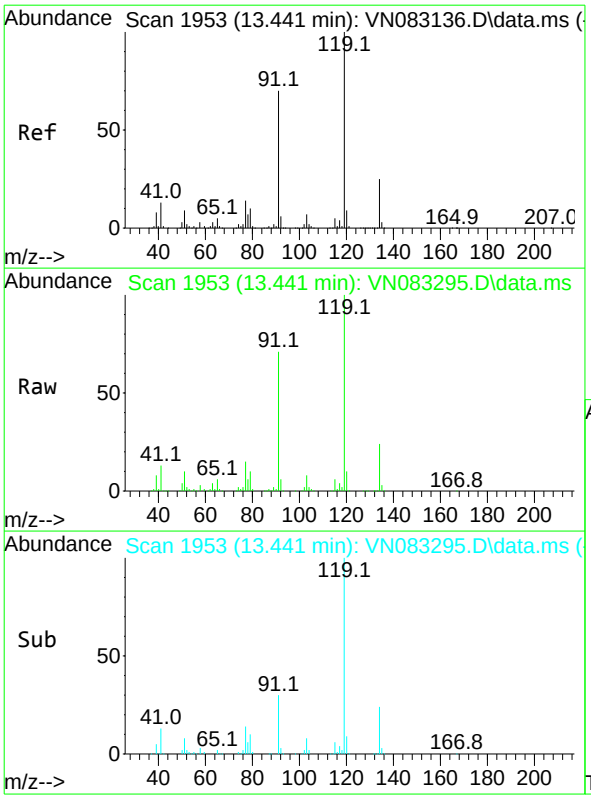


#82
4-Chlorotoluene
Concen: 48.468 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 91 Resp: 364156

Ion	Ratio	Lower	Upper
91	100		
126	31.4	16.2	48.6

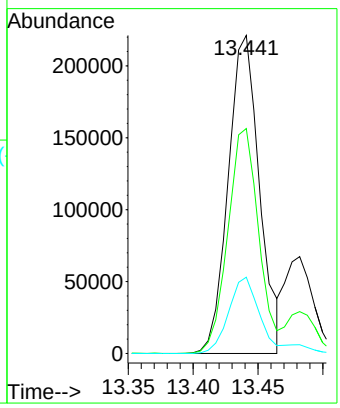




#83
tert-Butylbenzene
Concen: 48.866 ug/l
RT: 13.441 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion:119 Resp: 371735

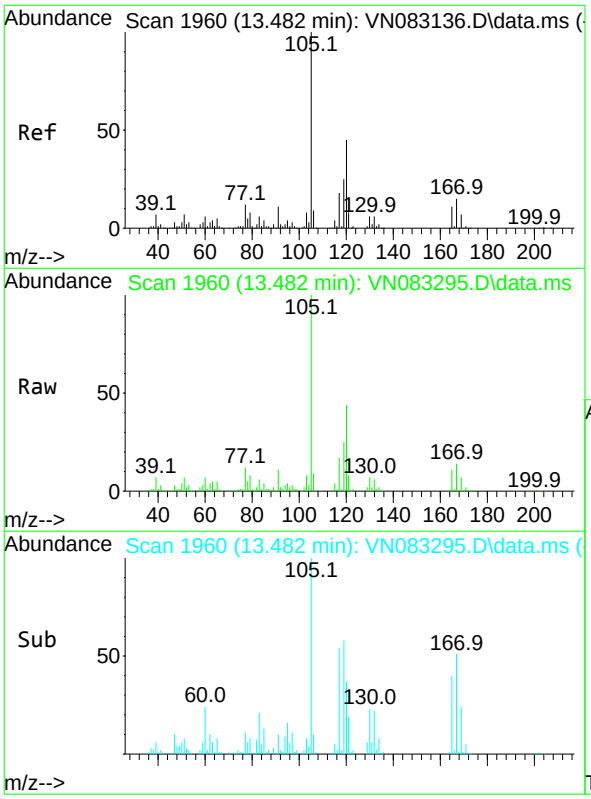
Ion	Ratio	Lower	Upper
119	100		
91	69.6	35.0	105.1
134	25.6	13.3	39.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

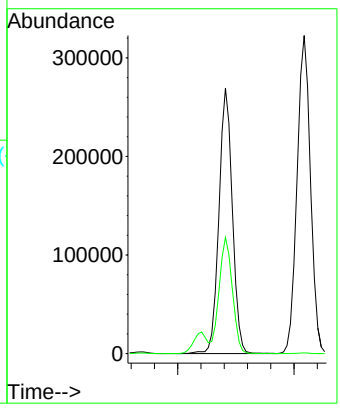
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

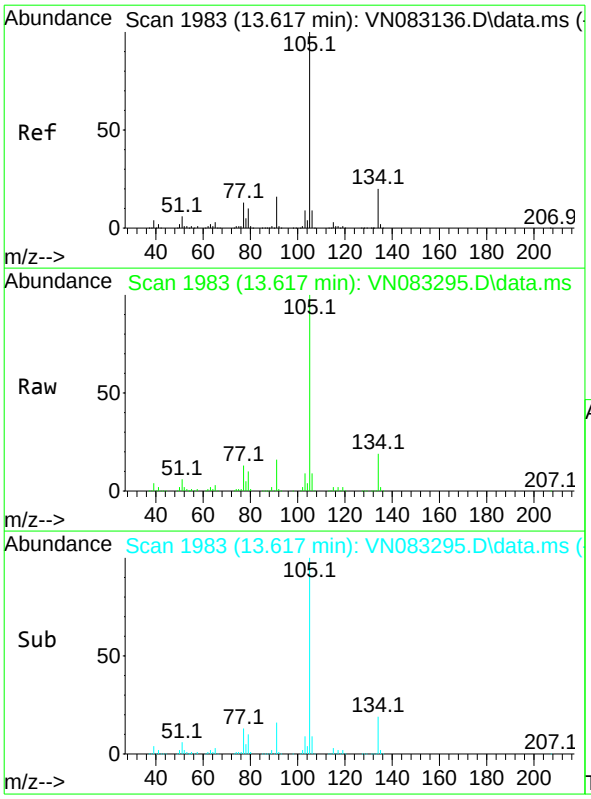


#84
1,2,4-Trimethylbenzene
Concen: 49.723 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion:105 Resp: 430444

Ion	Ratio	Lower	Upper
105	100		
120	43.7	21.9	65.8

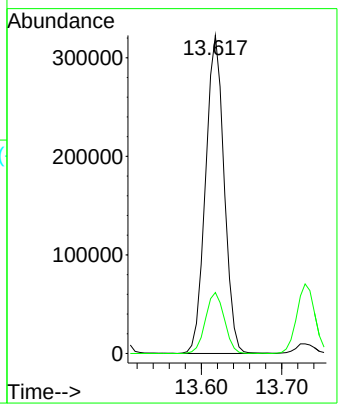




#85
sec-Butylbenzene
Concen: 49.826 ug/l
RT: 13.617 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion:105 Resp: 517202

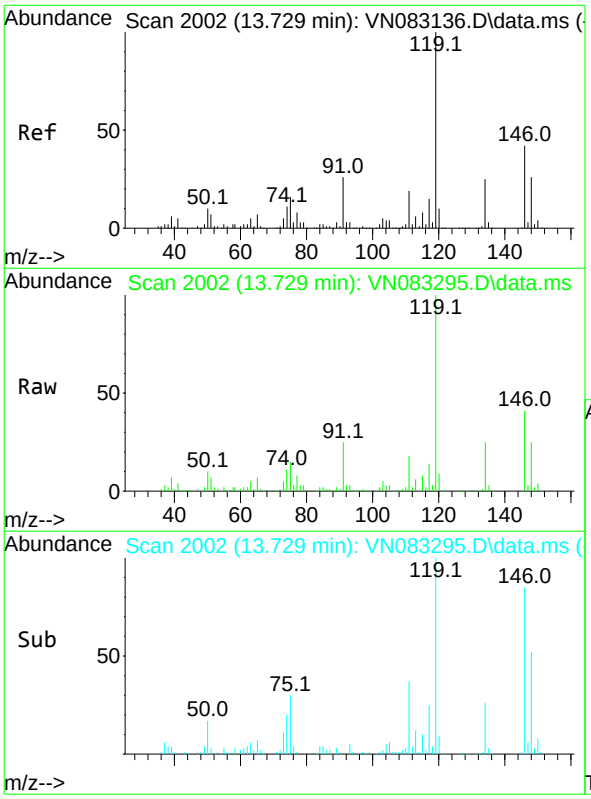
Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.8	29.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

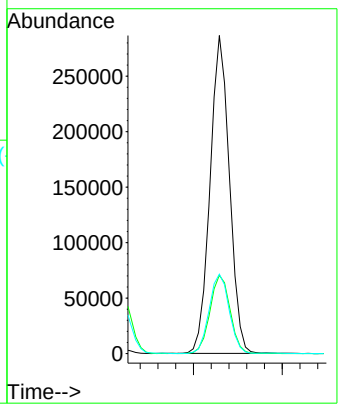
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

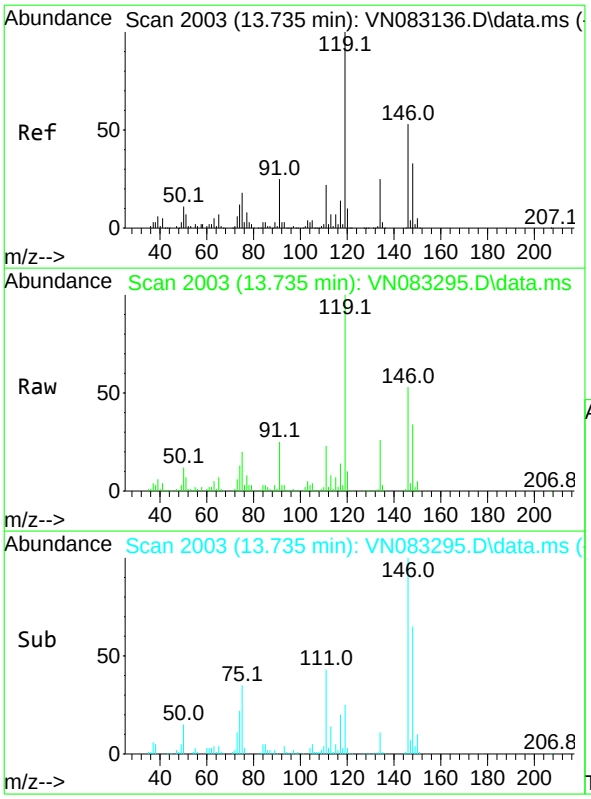


#86
p-Isopropyltoluene
Concen: 50.705 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion:119 Resp: 434576

Ion	Ratio	Lower	Upper
119	100		
134	25.5	13.0	39.0
91	25.9	12.3	36.9

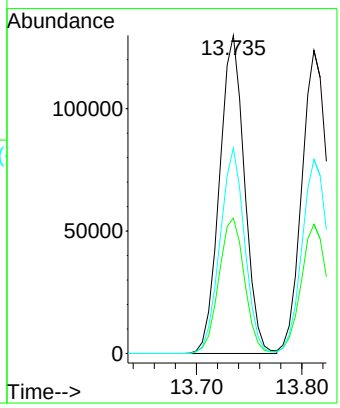




#87
1,3-Dichlorobenzene
Concen: 49.896 ug/l
RT: 13.735 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion:146 Resp: 213990

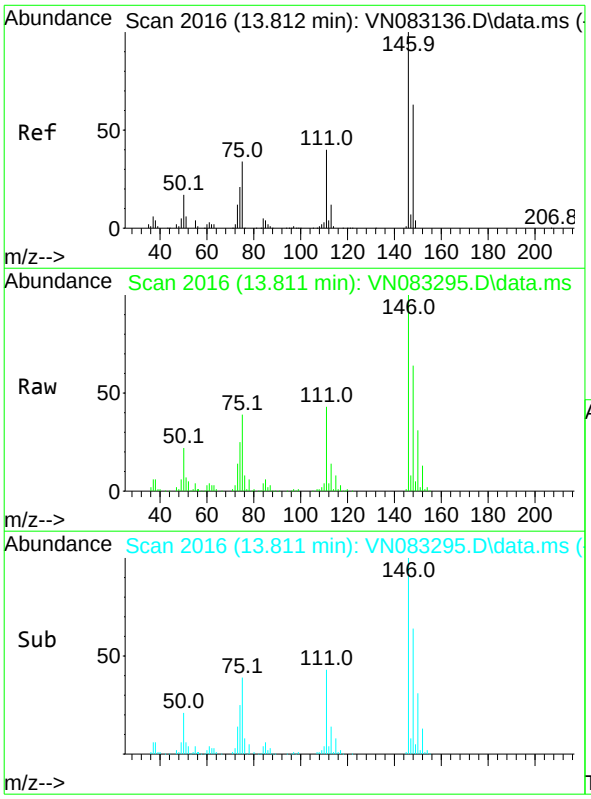
Ion	Ratio	Lower	Upper
146	100		
111	43.6	20.6	61.9
148	63.7	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

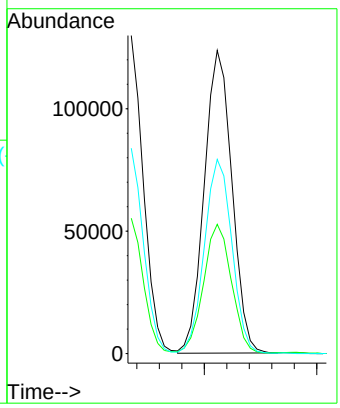
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

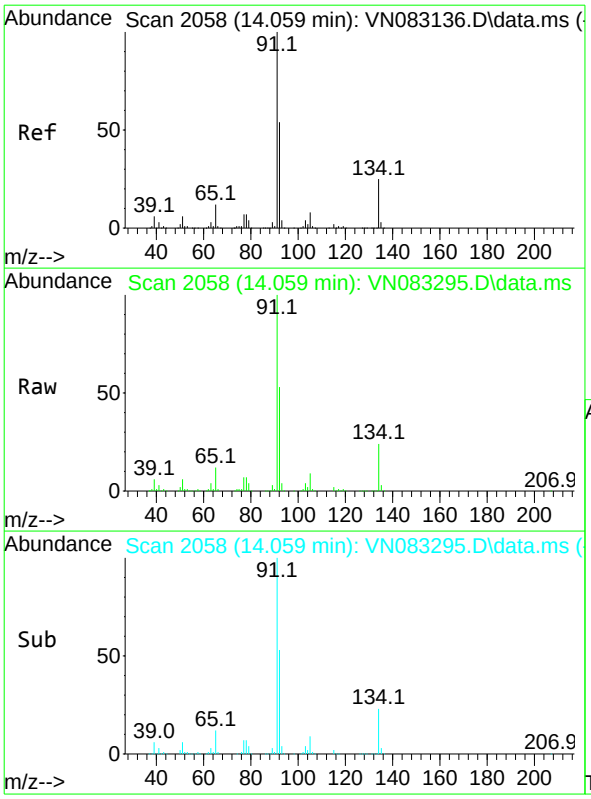


#88
1,4-Dichlorobenzene
Concen: 48.912 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion:146 Resp: 211478

Ion	Ratio	Lower	Upper
146	100		
111	42.9	20.1	60.3
148	64.0	32.2	96.6

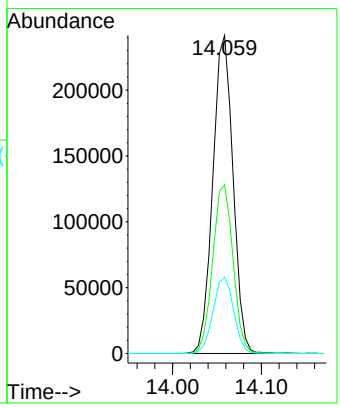




#89
n-Butylbenzene
Concen: 51.464 ug/l
RT: 14.059 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 91 Resp: 382193

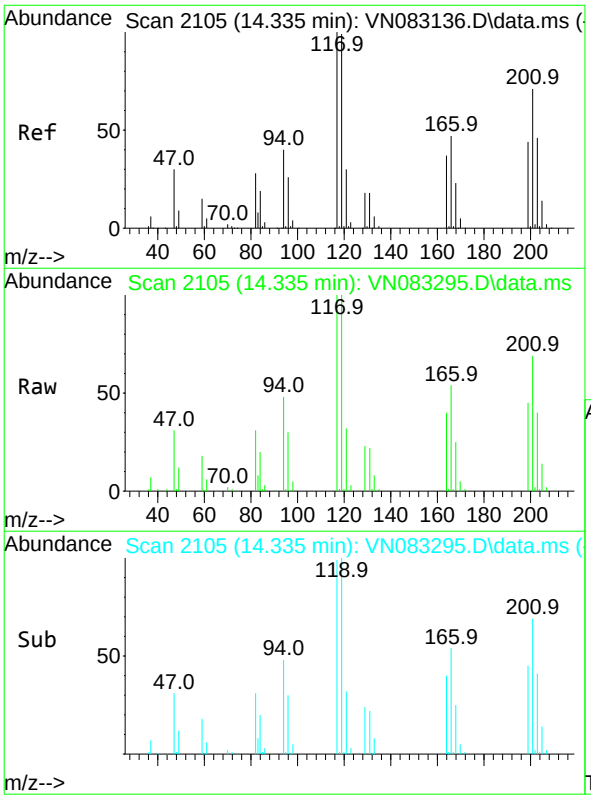
Ion	Ratio	Lower	Upper
91	100		
92	53.6	26.1	78.3
134	24.5	12.1	36.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

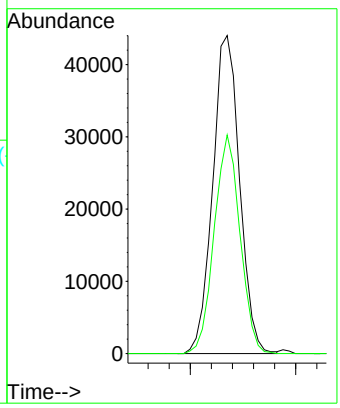
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

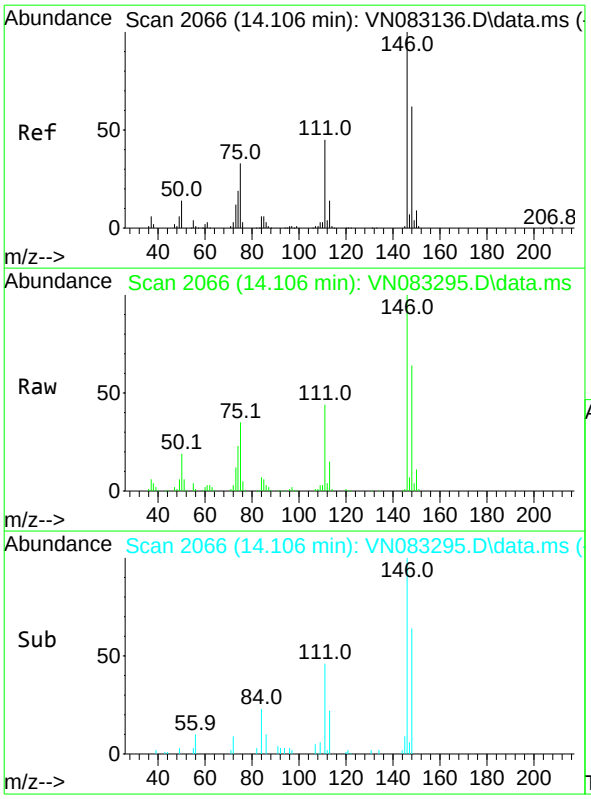


#90
Hexachloroethane
Concen: 47.142 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion:117 Resp: 78059

Ion	Ratio	Lower	Upper
117	100		
201	65.9	35.8	107.3

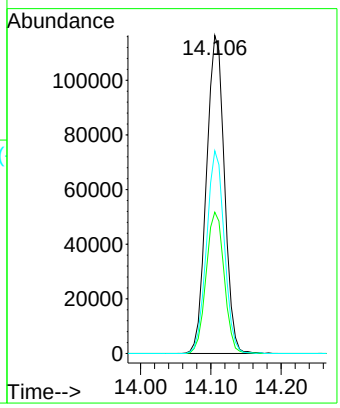




#91
1,2-Dichlorobenzene
Concen: 49.802 ug/l
RT: 14.106 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion:146 Resp: 206688

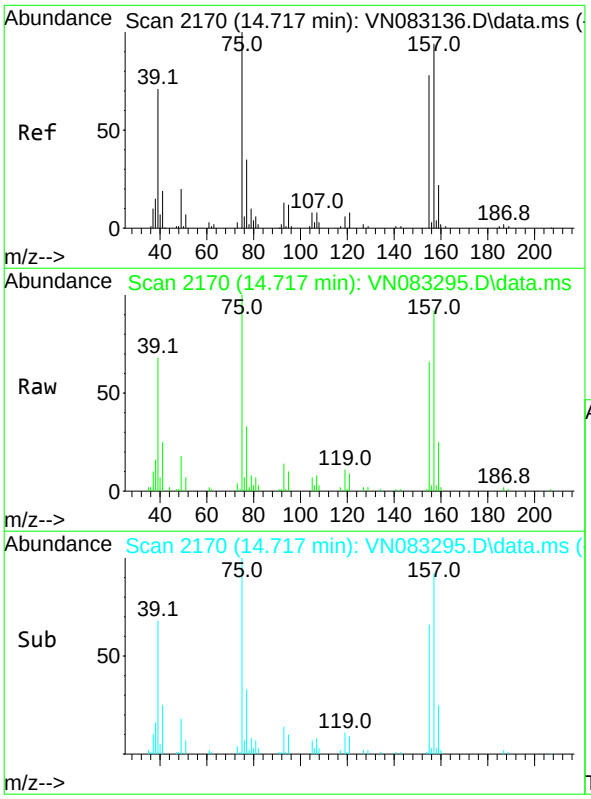
Ion	Ratio	Lower	Upper
146	100		
111	44.6	21.4	64.2
148	62.8	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

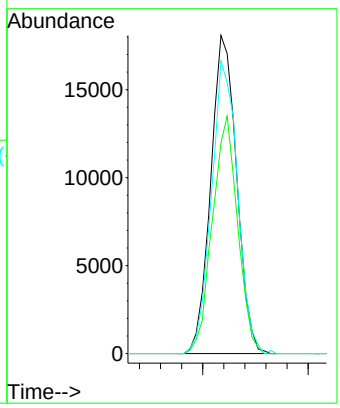
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

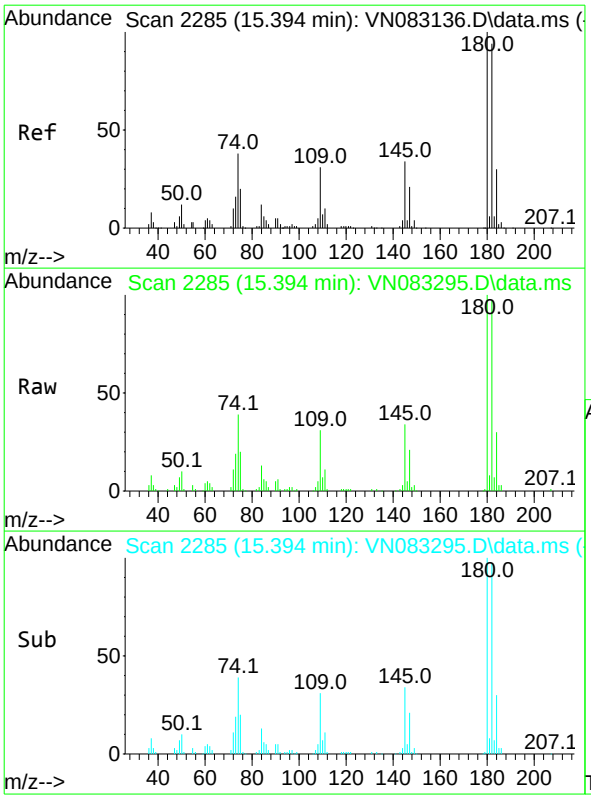


#92
1,2-Dibromo-3-Chloropropane
Concen: 43.813 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion: 75 Resp: 30853

Ion	Ratio	Lower	Upper
75	100		
155	72.7	36.6	109.8
157	93.0	46.9	140.6





#93
1,2,4-Trichlorobenzene
Concen: 48.458 ug/l
RT: 15.394 min Scan# 22
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

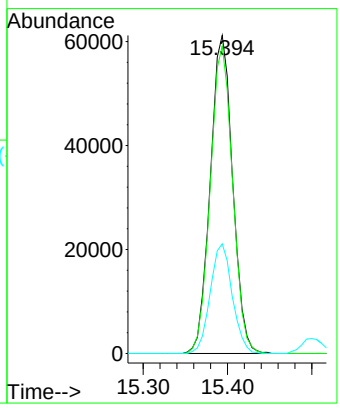
Tgt Ion:180 Resp: 112669

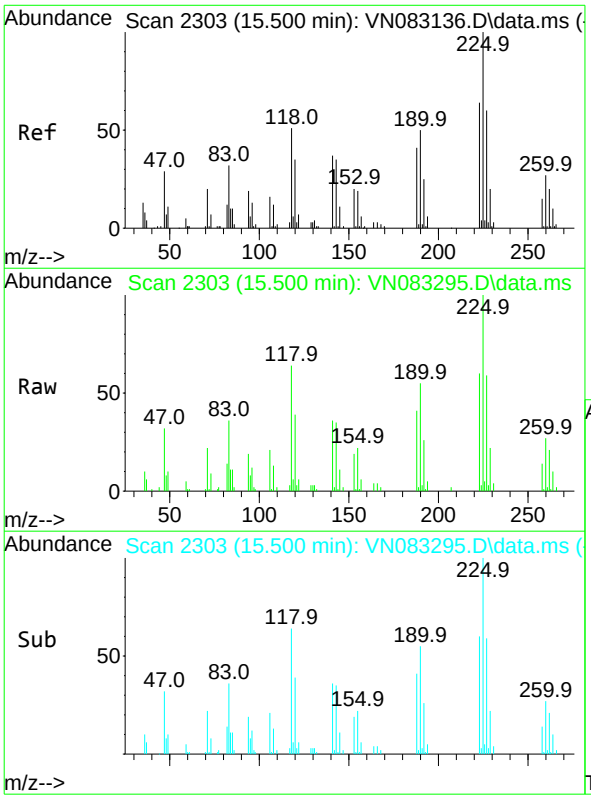
Ion	Ratio	Lower	Upper
180	100		
182	96.4	47.3	141.8
145	34.0	15.7	47.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

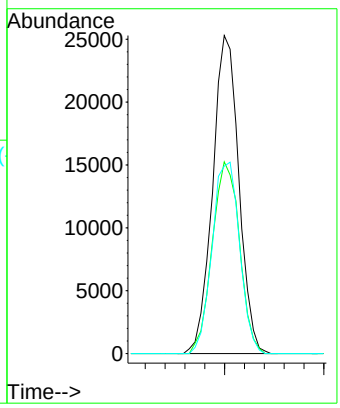


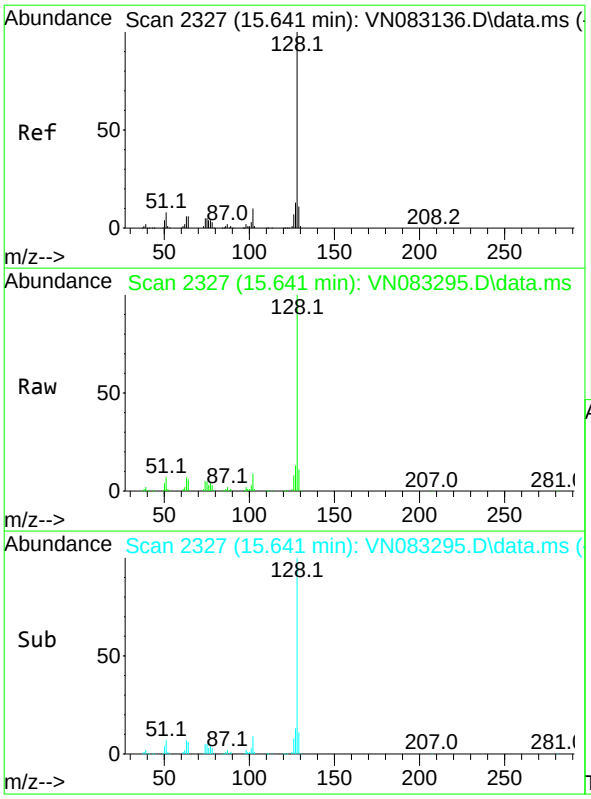


#94
Hexachlorobutadiene
Concen: 44.858 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion:225 Resp: 46384

Ion	Ratio	Lower	Upper
225	100		
223	62.7	31.9	95.7
227	63.0	32.5	97.5





#95
Naphthalene
Concen: 47.278 ug/l
RT: 15.641 min Scan# 23
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

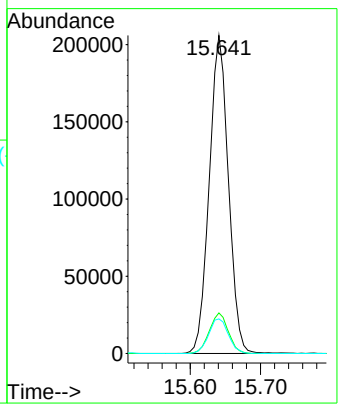
Tgt Ion:128 Resp: 389373

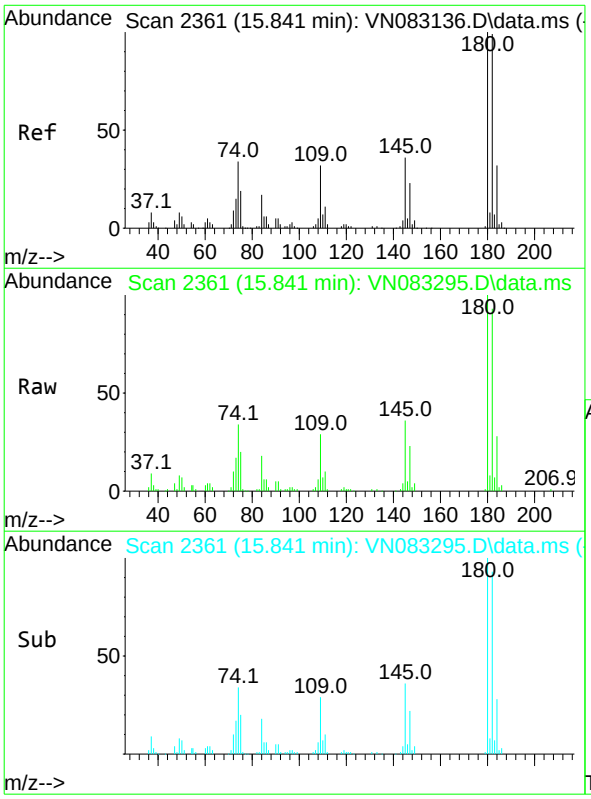
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.6	16.0
129	11.3	8.6	12.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

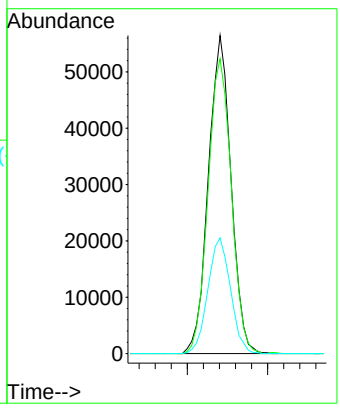




#96
1,2,3-Trichlorobenzene
Concen: 48.043 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. -0.000 min
Lab File: VN083295.D
Acq: 14 Aug 2024 12:41

Tgt Ion:180 Resp: 110529

Ion	Ratio	Lower	Upper
180	100		
182	95.1	48.9	146.8
145	36.3	16.8	50.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081424\
Data File : VN083295.D
Acq On : 14 Aug 2024 12:41
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 14 23:14:20 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	81	0.00
2	T	Dichlorodifluoromethane	0.567	0.535	5.6	76	0.00
3	P	Chloromethane	0.581	0.541	6.9	74	0.00
4	C	Vinyl Chloride	0.592	0.580	2.0#	78	0.00
5	T	Bromomethane	0.368	0.326	11.4	74	0.00
6	T	Chloroethane	0.371	0.373	-0.5	85	0.00
7	T	Trichlorofluoromethane	0.979	1.026	-4.8	83	0.00
8	T	Diethyl Ether	0.364	0.348	4.4	77	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.539	0.554	-2.8	82	0.00
10	T	Methyl Iodide	0.710	0.585	17.6	64	0.00
11	T	Tert butyl alcohol	0.148	0.148	0.0	82	0.00
12	CM	1,1-Dichloroethene	0.554	0.521	6.0#	77	0.00
13	T	Acrolein	0.096	0.092	4.2	73	0.00
14	T	Allyl chloride	1.047	0.966	7.7	84	0.00
15	T	Acrylonitrile	0.304	0.295	3.0	78	0.00
16	T	Acetone	0.278	0.244	12.2	69	0.00
17	T	Carbon Disulfide	1.622	1.333	17.8	69	0.00
18	T	Methyl Acetate	0.830	0.827	0.4	86	0.00
19	T	Methyl tert-butyl Ether	2.001	2.005	-0.2	80	0.00
20	T	Methylene Chloride	0.641	0.596	7.0	80	0.00
21	T	trans-1,2-Dichloroethene	0.573	0.543	5.2	76	-0.01
22	T	Diisopropyl ether	1.969	2.006	-1.9	81	0.00
23	T	Vinyl Acetate	2.018	2.204	-9.2	85	0.00
24	P	1,1-Dichloroethane	1.073	1.095	-2.1	82	0.00
25	T	2-Butanone	0.428	0.402	6.1	76	0.00
26	T	2,2-Dichloropropane	0.997	0.934	6.3	74	0.00
27	T	cis-1,2-Dichloroethene	0.691	0.680	1.6	80	0.00
28	T	Bromochloromethane	0.439	0.439	0.0	81	0.00
29	T	Tetrahydrofuran	0.276	0.257	6.9	74	0.00
30	C	Chloroform	1.115	1.186	-6.4#	84	0.00
31	T	Cyclohexane	1.055	0.966	8.4	79	0.00
32	T	1,1,1-Trichloroethane	1.055	1.088	-3.1	82	0.00
33	S	1,2-Dichloroethane-d4	0.712	0.742	-4.2	80	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	81	0.00
35	S	Dibromofluoromethane	0.312	0.320	-2.6	78	0.00
36	T	1,1-Dichloropropene	0.472	0.475	-0.6	81	0.00
37	T	Ethyl Acetate	0.529	0.486	8.1	79	0.00
38	T	Carbon Tetrachloride	0.532	0.548	-3.0	81	0.00
39	T	Methylcyclohexane	0.580	0.559	3.6	76	0.00
40	TM	Benzene	1.406	1.433	-1.9	80	0.00
41	T	Methacrylonitrile	0.301	0.277	8.0	79	0.00
42	TM	1,2-Dichloroethane	0.512	0.547	-6.8	85	0.00
43	T	Isopropyl Acetate	1.211	0.895	26.1#	79	0.00
44	TM	Trichloroethene	0.335	0.341	-1.8	80	0.00
45	C	1,2-Dichloropropane	0.334	0.354	-6.0#	83	0.00
46	T	Dibromomethane	0.239	0.256	-7.1	83	0.00
47	T	Bromodichloromethane	0.537	0.551	-2.6	83	0.00
48	T	Methyl methacrylate	0.437	0.416	4.8	79	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081424\
Data File : VN083295.D
Acq On : 14 Aug 2024 12:41
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 14 23:14:20 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	0.008	0.0	75	0.00
50	S	Toluene-d8	1.164	1.193	-2.5	77	0.00
51	T	4-Methyl-2-Pentanone	0.500	0.506	-1.2	79	0.00
52	CM	Toluene	0.889	0.921	-3.6#	81	0.00
53	T	t-1,3-Dichloropropene	0.551	0.572	-3.8	78	0.00
54	T	cis-1,3-Dichloropropene	0.586	0.595	-1.5	80	0.00
55	T	1,1,2-Trichloroethane	0.318	0.338	-6.3	82	0.00
56	T	Ethyl methacrylate	0.600	0.610	-1.7	79	0.00
57	T	1,3-Dichloropropane	0.568	0.600	-5.6	82	0.00
58	T	2-Chloroethyl Vinyl ether	0.254	0.258	-1.6	80	0.00
59	T	2-Hexanone	0.387	0.377	2.6	77	0.00
60	T	Dibromochloromethane	0.385	0.416	-8.1	82	0.00
61	T	1,2-Dibromoethane	0.335	0.345	-3.0	81	0.00
62	S	4-Bromofluorobenzene	0.454	0.479	-5.5	79	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	83	0.00
64	T	Tetrachloroethene	0.331	0.333	-0.6	80	0.00
65	PM	Chlorobenzene	1.105	1.119	-1.3	81	0.00
66	T	1,1,1,2-Tetrachloroethane	0.390	0.397	-1.8	82	0.00
67	C	Ethyl Benzene	2.027	2.073	-2.3#	83	0.00
68	T	m/p-Xylenes	0.759	0.775	-2.1	81	0.00
69	T	o-Xylene	0.749	0.756	-0.9	81	0.00
70	T	Styrene	1.258	1.305	-3.7	81	0.00
71	P	Bromoform	0.295	0.297	-0.7	77	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	86	0.00
73	T	Isopropylbenzene	4.182	4.049	3.2	81	0.00
74	T	N-amyl acetate	2.046	1.826	10.8	78	0.00
75	P	1,1,2,2-Tetrachloroethane	1.183	1.143	3.4	84	0.00
76	T	1,2,3-Trichloropropane	1.097	1.045	4.7	84	0.00
77	T	Bromobenzene	0.929	0.923	0.6	82	0.00
78	T	n-propylbenzene	4.816	4.810	0.1	83	0.00
79	T	2-Chlorotoluene	3.053	3.000	1.7	83	0.00
80	T	1,3,5-Trimethylbenzene	3.501	3.489	0.3	83	0.00
81	T	trans-1,4-Dichloro-2-butene	0.504	0.464	7.9	80	0.00
82	T	4-Chlorotoluene	3.062	2.969	3.0	82	0.00
83	T	tert-Butylbenzene	3.101	3.030	2.3	82	0.00
84	T	1,2,4-Trimethylbenzene	3.529	3.509	0.6	82	0.00
85	T	sec-Butylbenzene	4.231	4.216	0.4	82	0.00
86	T	p-Isopropyltoluene	3.493	3.543	-1.4	82	0.00
87	T	1,3-Dichlorobenzene	1.748	1.744	0.2	84	0.00
88	T	1,4-Dichlorobenzene	1.762	1.724	2.2	83	0.00
89	T	n-Butylbenzene	3.027	3.116	-2.9	83	0.00
90	T	Hexachloroethane	0.675	0.636	5.8	79	0.00
91	T	1,2-Dichlorobenzene	1.692	1.685	0.4	85	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.287	0.252	12.2	76	0.00
93	T	1,2,4-Trichlorobenzene	0.948	0.918	3.2	80	0.00
94	T	Hexachlorobutadiene	0.421	0.378	10.2	79	0.00
95	T	Naphthalene	3.357	3.174	5.5	78	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081424\
Data File : VN083295.D
Acq On : 14 Aug 2024 12:41
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 14 23:14:20 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	0.901	3.9	80	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081424\
Data File : VN083295.D
Acq On : 14 Aug 2024 12:41
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 14 23:14:20 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	81	0.00
2	T	Dichlorodifluoromethane	50.000	47.158	5.7	76	0.00
3	P	Chloromethane	50.000	46.562	6.9	74	0.00
4	C	Vinyl Chloride	50.000	48.983	2.0#	78	0.00
5	T	Bromomethane	50.000	44.339	11.3	74	0.00
6	T	Chloroethane	50.000	50.266	-0.5	85	0.00
7	T	Trichlorofluoromethane	50.000	52.421	-4.8	83	0.00
8	T	Diethyl Ether	50.000	47.827	4.3	77	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	51.366	-2.7	82	0.00
10	T	Methyl Iodide	50.000	41.205	17.6	64	0.00
11	T	Tert butyl alcohol	250.000	250.960	-0.4	82	0.00
12	CM	1,1-Dichloroethene	50.000	46.996	6.0#	77	0.00
13	T	Acrolein	250.000	239.443	4.2	73	0.00
14	T	Allyl chloride	50.000	46.115	7.8	84	0.00
15	T	Acrylonitrile	250.000	242.760	2.9	78	0.00
16	T	Acetone	250.000	219.394	12.2	69	0.00
17	T	Carbon Disulfide	50.000	41.102	17.8	69	0.00
18	T	Methyl Acetate	50.000	49.826	0.3	86	0.00
19	T	Methyl tert-butyl Ether	50.000	50.114	-0.2	80	0.00
20	T	Methylene Chloride	50.000	46.513	7.0	80	0.00
21	T	trans-1,2-Dichloroethene	50.000	47.417	5.2	76	-0.01
22	T	Diisopropyl ether	50.000	50.939	-1.9	81	0.00
23	T	Vinyl Acetate	250.000	273.001	-9.2	85	0.00
24	P	1,1-Dichloroethane	50.000	51.002	-2.0	82	0.00
25	T	2-Butanone	250.000	234.803	6.1	76	0.00
26	T	2,2-Dichloropropane	50.000	46.878	6.2	74	0.00
27	T	cis-1,2-Dichloroethene	50.000	49.219	1.6	80	0.00
28	T	Bromochloromethane	50.000	50.022	-0.0	81	0.00
29	T	Tetrahydrofuran	250.000	232.605	7.0	74	0.00
30	C	Chloroform	50.000	53.171	-6.3#	84	0.00
31	T	Cyclohexane	50.000	45.816	8.4	79	0.00
32	T	1,1,1-Trichloroethane	50.000	51.554	-3.1	82	0.00
33	S	1,2-Dichloroethane-d4	50.000	52.129	-4.3	80	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	81	0.00
35	S	Dibromofluoromethane	50.000	51.194	-2.4	78	0.00
36	T	1,1-Dichloropropene	50.000	50.312	-0.6	81	0.00
37	T	Ethyl Acetate	50.000	45.975	8.0	79	0.00
38	T	Carbon Tetrachloride	50.000	51.545	-3.1	81	0.00
39	T	Methylcyclohexane	50.000	48.172	3.7	76	0.00
40	TM	Benzene	50.000	50.937	-1.9	80	0.00
41	T	Methacrylonitrile	50.000	46.068	7.9	79	0.00
42	TM	1,2-Dichloroethane	50.000	53.374	-6.7	85	0.00
43	T	Isopropyl Acetate	50.000	48.708	2.6	79	0.00
44	TM	Trichloroethene	50.000	50.883	-1.8	80	0.00
45	C	1,2-Dichloropropane	50.000	53.038	-6.1#	83	0.00
46	T	Dibromomethane	50.000	53.530	-7.1	83	0.00
47	T	Bromodichloromethane	50.000	51.369	-2.7	83	0.00
48	T	Methyl methacrylate	50.000	47.618	4.8	79	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081424\
Data File : VN083295.D
Acq On : 14 Aug 2024 12:41
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 14 23:14:20 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	960.872	3.9	75	0.00
50	S	Toluene-d8	50.000	51.234	-2.5	77	0.00
51	T	4-Methyl-2-Pentanone	250.000	253.043	-1.2	79	0.00
52	CM	Toluene	50.000	51.813	-3.6#	81	0.00
53	T	t-1,3-Dichloropropene	50.000	51.915	-3.8	78	0.00
54	T	cis-1,3-Dichloropropene	50.000	50.753	-1.5	80	0.00
55	T	1,1,2-Trichloroethane	50.000	53.110	-6.2	82	0.00
56	T	Ethyl methacrylate	50.000	50.792	-1.6	79	0.00
57	T	1,3-Dichloropropane	50.000	52.864	-5.7	82	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	253.780	-1.5	80	0.00
59	T	2-Hexanone	250.000	243.668	2.5	77	0.00
60	T	Dibromochloromethane	50.000	54.062	-8.1	82	0.00
61	T	1,2-Dibromoethane	50.000	51.595	-3.2	81	0.00
62	S	4-Bromofluorobenzene	50.000	52.757	-5.5	79	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	83	0.00
64	T	Tetrachloroethene	50.000	50.230	-0.5	80	0.00
65	PM	Chlorobenzene	50.000	50.640	-1.3	81	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	50.961	-1.9	82	0.00
67	C	Ethyl Benzene	50.000	51.124	-2.2#	83	0.00
68	T	m/p-Xylenes	100.000	102.048	-2.0	81	0.00
69	T	o-Xylene	50.000	50.450	-0.9	81	0.00
70	T	Styrene	50.000	51.874	-3.7	81	0.00
71	P	Bromoform	50.000	50.218	-0.4	77	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	86	0.00
73	T	Isopropylbenzene	50.000	48.403	3.2	81	0.00
74	T	N-amyl acetate	50.000	44.635	10.7	78	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	48.328	3.3	84	0.00
76	T	1,2,3-Trichloropropane	50.000	47.602	4.8	84	0.00
77	T	Bromobenzene	50.000	49.656	0.7	82	0.00
78	T	n-propylbenzene	50.000	49.938	0.1	83	0.00
79	T	2-Chlorotoluene	50.000	49.125	1.8	83	0.00
80	T	1,3,5-Trimethylbenzene	50.000	49.829	0.3	83	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	45.962	8.1	80	0.00
82	T	4-Chlorotoluene	50.000	48.468	3.1	82	0.00
83	T	tert-Butylbenzene	50.000	48.866	2.3	82	0.00
84	T	1,2,4-Trimethylbenzene	50.000	49.723	0.6	82	0.00
85	T	sec-Butylbenzene	50.000	49.826	0.3	82	0.00
86	T	p-Isopropyltoluene	50.000	50.705	-1.4	82	0.00
87	T	1,3-Dichlorobenzene	50.000	49.896	0.2	84	0.00
88	T	1,4-Dichlorobenzene	50.000	48.912	2.2	83	0.00
89	T	n-Butylbenzene	50.000	51.464	-2.9	83	0.00
90	T	Hexachloroethane	50.000	47.142	5.7	79	0.00
91	T	1,2-Dichlorobenzene	50.000	49.802	0.4	85	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	43.813	12.4	76	0.00
93	T	1,2,4-Trichlorobenzene	50.000	48.458	3.1	80	0.00
94	T	Hexachlorobutadiene	50.000	44.858	10.3	79	0.00
95	T	Naphthalene	50.000	47.278	5.4	78	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081424\
Data File : VN083295.D
Acq On : 14 Aug 2024 12:41
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 14 23:14:20 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	48.043	3.9	80	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

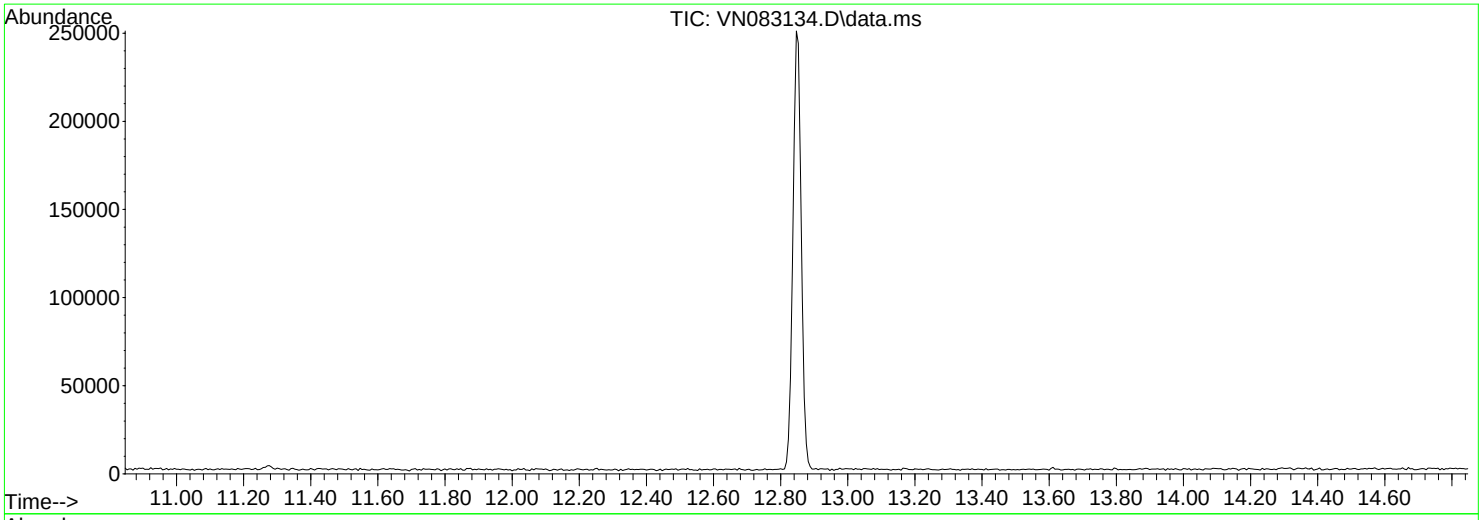
QC SAMPLE DATA

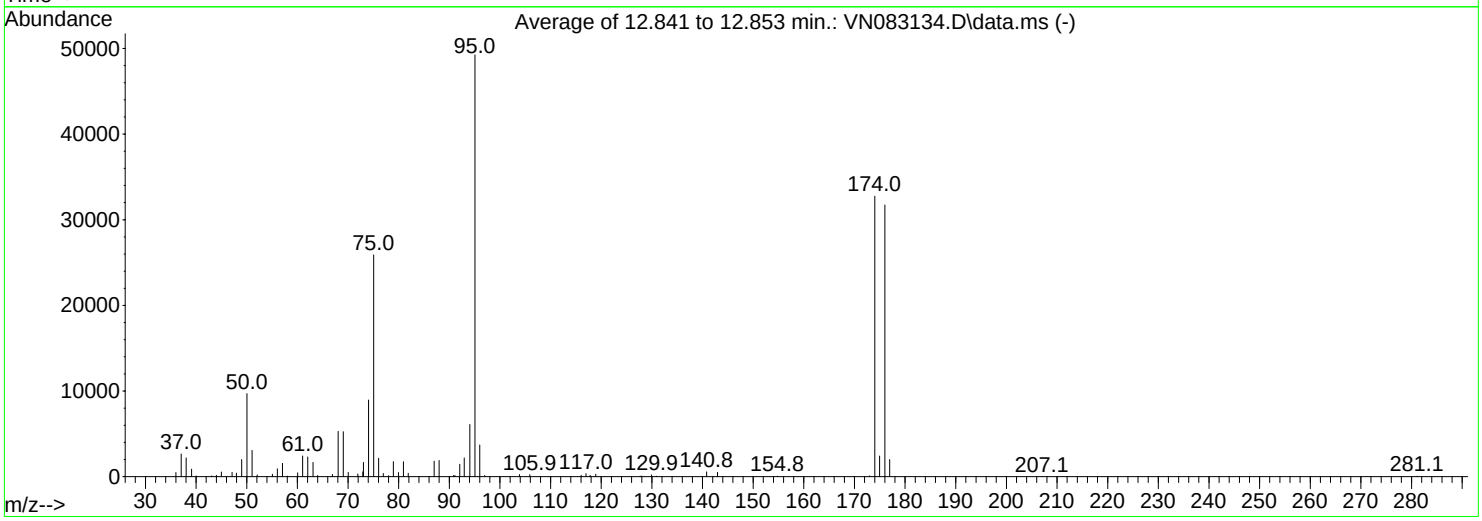
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083134.D
Acq On : 07 Aug 2024 10:09
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

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





AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

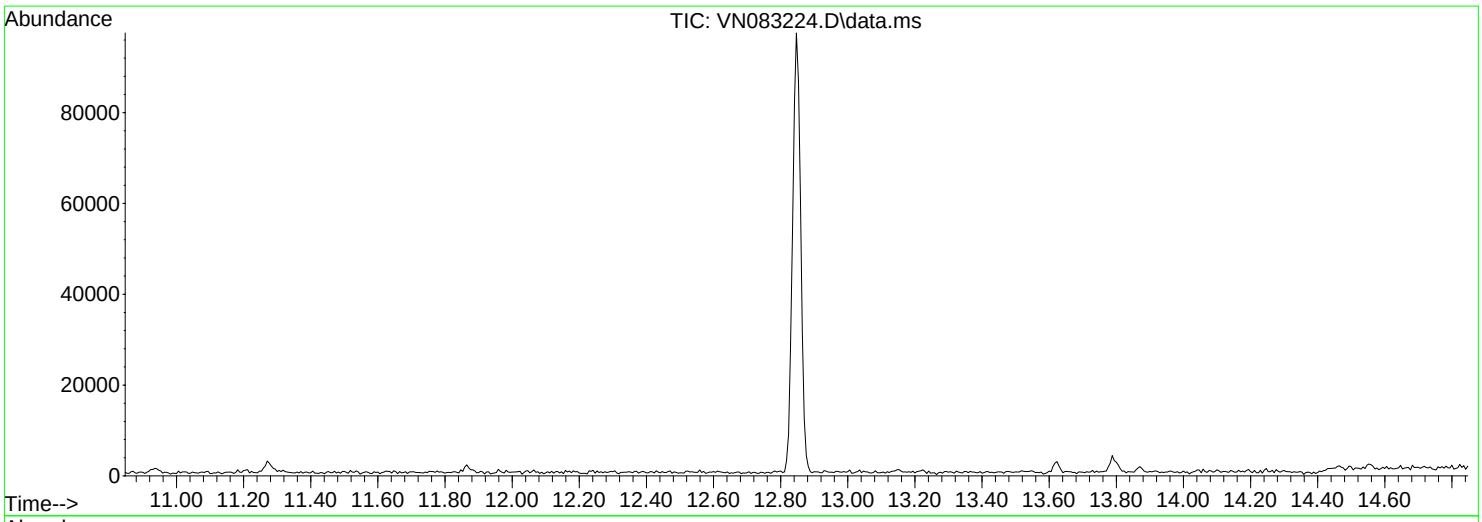
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.7	9690	PASS
75	95	30	60	52.6	25907	PASS
95	95	100	100	100.0	49259	PASS
96	95	5	9	7.5	3697	PASS
173	174	0.00	2	0.3	99	PASS
174	95	50	100	66.5	32749	PASS
175	174	5	9	7.4	2414	PASS
176	174	95	101	96.9	31720	PASS
177	176	5	9	6.3	1999	PASS

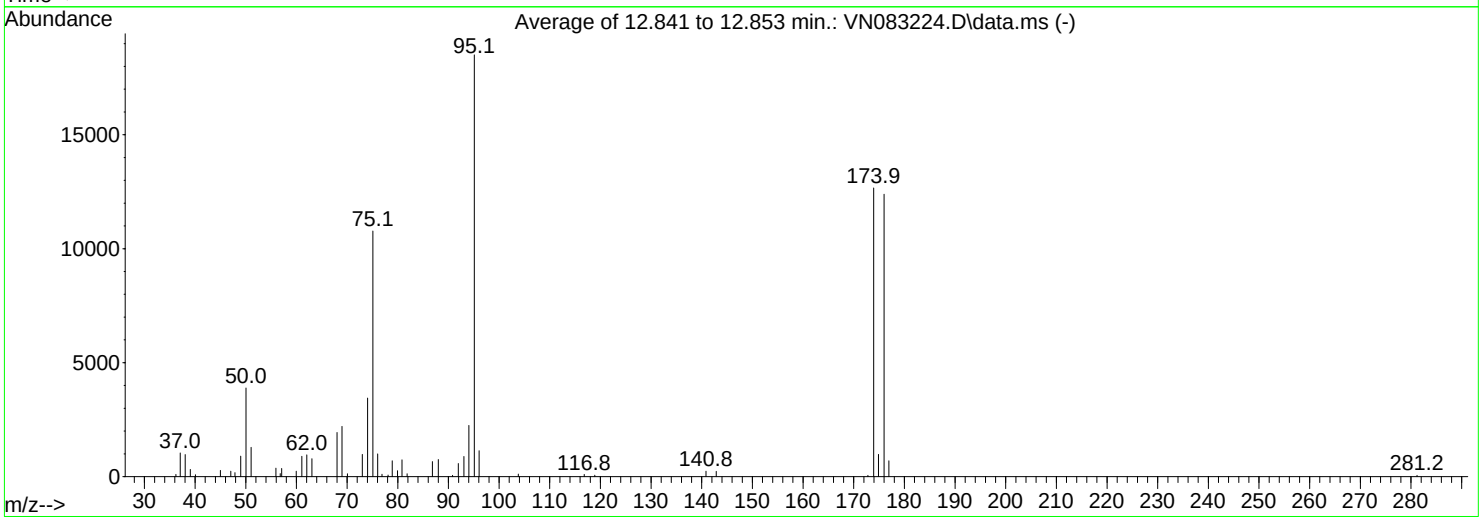
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081224\
Data File : VN083224.D
Acq On : 12 Aug 2024 08:44
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

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 1844

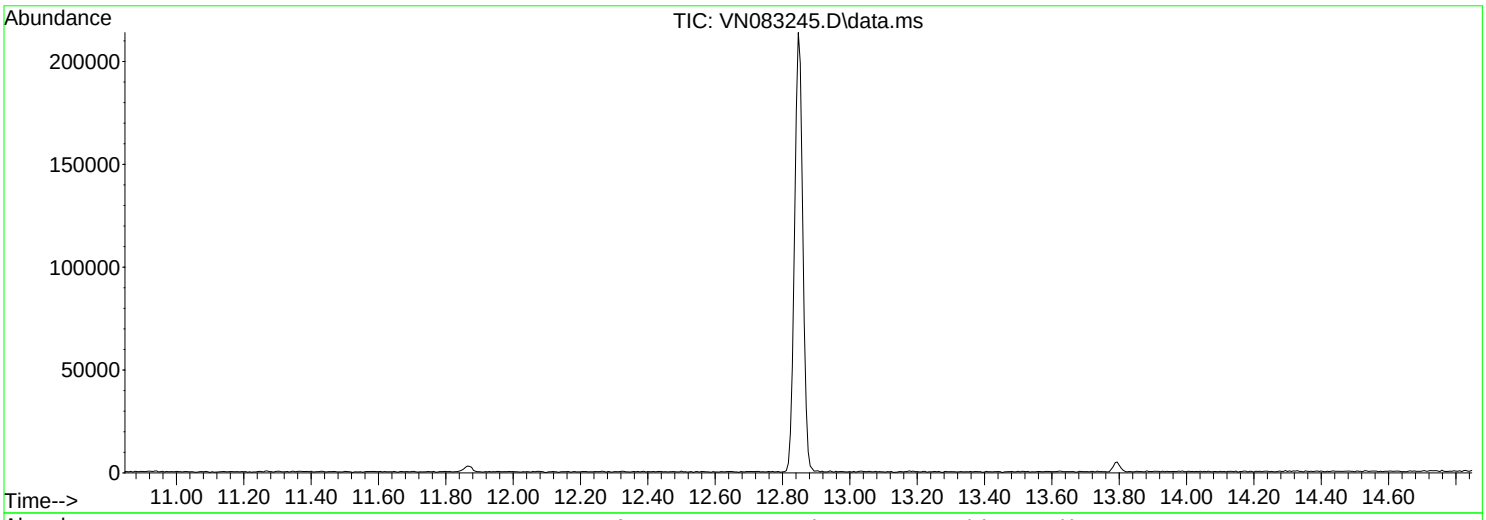
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.0	3887	PASS
75	95	30	60	58.2	10779	PASS
95	95	100	100	100.0	18507	PASS
96	95	5	9	6.1	1134	PASS
173	174	0.00	2	0.4	54	PASS
174	95	50	100	68.4	12665	PASS
175	174	5	9	7.7	977	PASS
176	174	95	101	97.9	12393	PASS
177	176	5	9	5.6	697	PASS

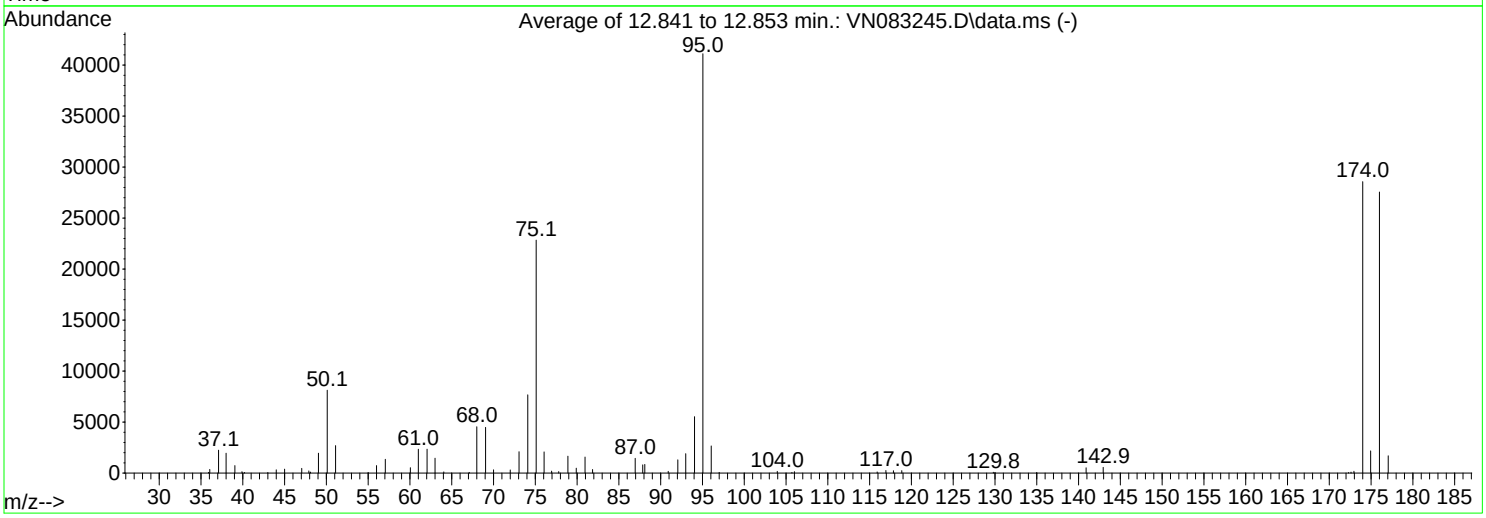
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083245.D
Acq On : 13 Aug 2024 09:54
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

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

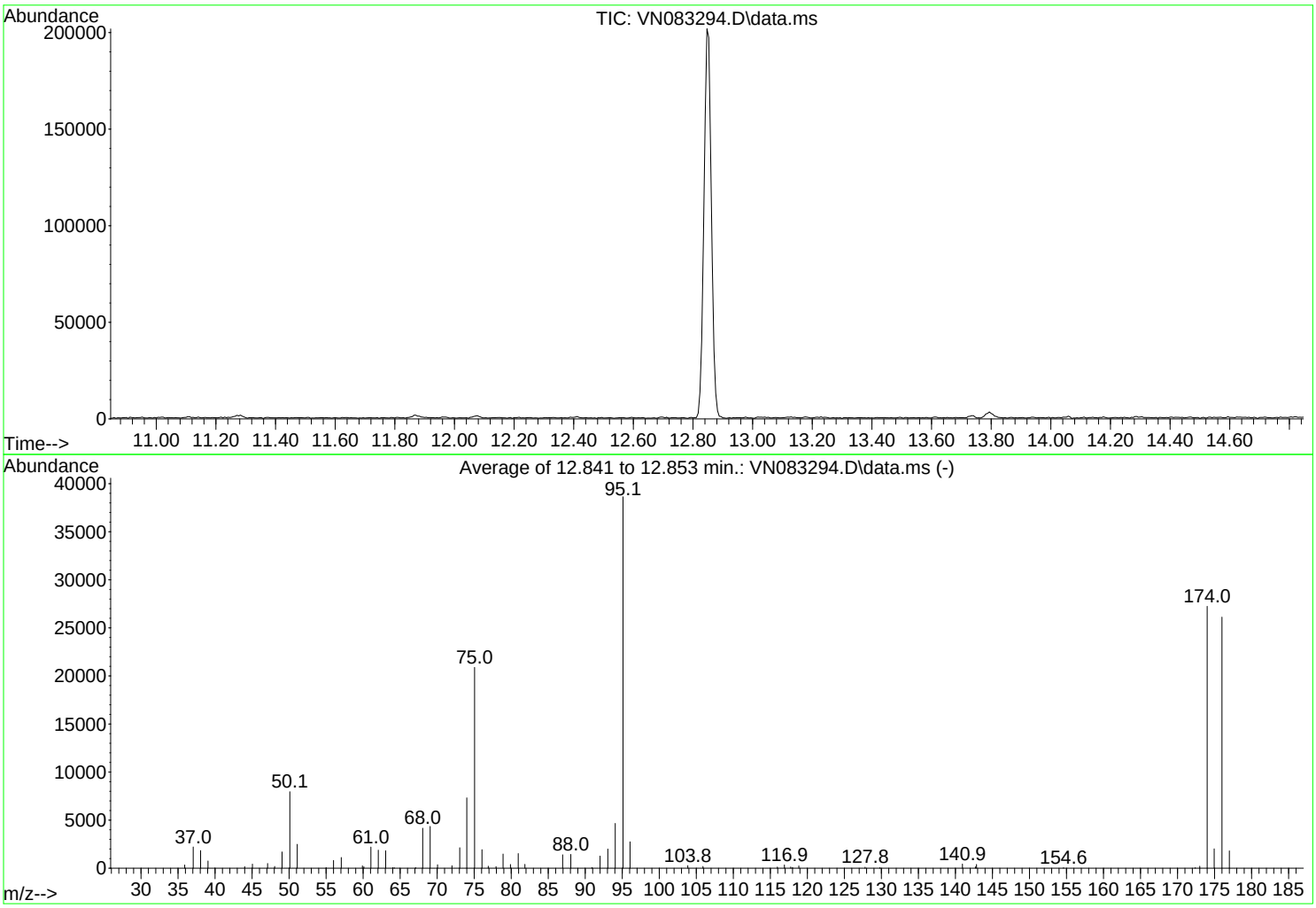
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.8	8125	PASS
75	95	30	60	55.6	22840	PASS
95	95	100	100	100.0	41112	PASS
96	95	5	9	6.5	2659	PASS
173	174	0.00	2	0.6	179	PASS
174	95	50	100	69.5	28568	PASS
175	174	5	9	7.6	2175	PASS
176	174	95	101	96.5	27557	PASS
177	176	5	9	6.1	1693	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081424\
Data File : VN083294.D
Acq On : 14 Aug 2024 12:07
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	20.6	7958	PASS
75	95	30	60	54.1	20891	PASS
95	95	100	100	100.0	38643	PASS
96	95	5	9	7.1	2747	PASS
173	174	0.00	2	0.8	207	PASS
174	95	50	100	70.5	27243	PASS
175	174	5	9	7.4	2019	PASS
176	174	95	101	95.9	26120	PASS
177	176	5	9	6.9	1805	PASS

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:	VN0812WBL01	SDG No.:	P3429
Lab Sample ID:	VN0812WBL01	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
VN083227.D	1		08/12/24 10:46	VN081224

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
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	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
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
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

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:	VN0812WBL01	SDG No.:	P3429
Lab Sample ID:	VN0812WBL01	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
VN083227.D	1		08/12/24 10:46	VN081224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.6		70 (74) - 130 (125)	113%	SPK: 50
1868-53-7	Dibromofluoromethane	53.6		70 (75) - 130 (124)	107%	SPK: 50
2037-26-5	Toluene-d8	53.9		70 (86) - 130 (113)	108%	SPK: 50
460-00-4	4-Bromofluorobenzene	59.1		70 (77) - 130 (121)	118%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	155000	8.224			
540-36-3	1,4-Difluorobenzene	298000	9.1			
3114-55-4	Chlorobenzene-d5	310000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	137000	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\VN081224\
Data File : VN083227.D
Acq On : 12 Aug 2024 10:46
Operator : JC\MD
Sample : VN0812WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBL01

Quant Time: Aug 13 04:12:24 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

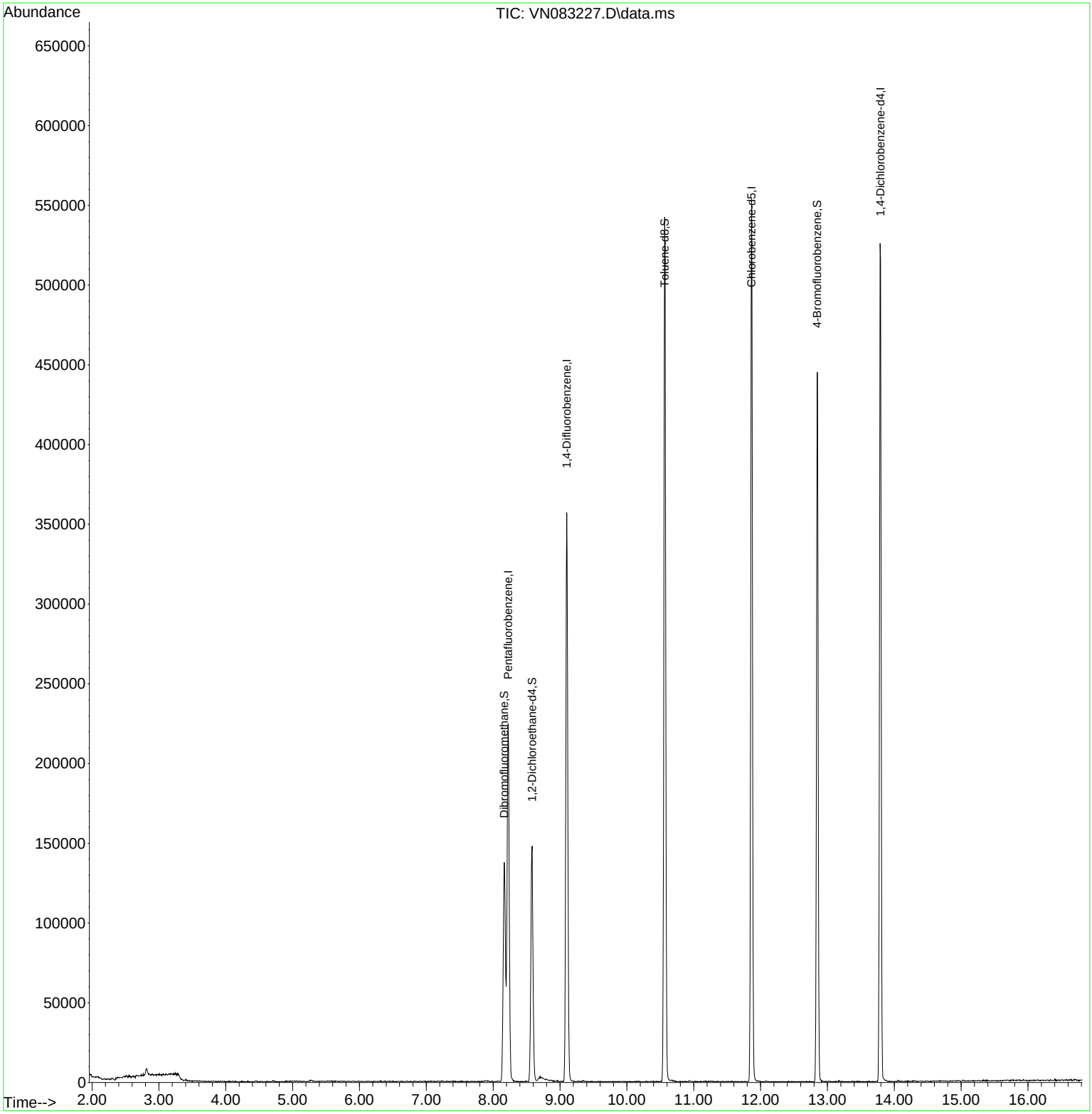
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	155185	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	297997	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	309712	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	137198	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	124957	56.570	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 113.140%			
35) Dibromofluoromethane	8.165	113	99644	53.571	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 107.140%			
50) Toluene-d8	10.565	98	373919	53.891	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 107.780%			
62) 4-Bromofluorobenzene	12.847	95	159944	59.130	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 118.260%			
Target Compounds						Qvalue

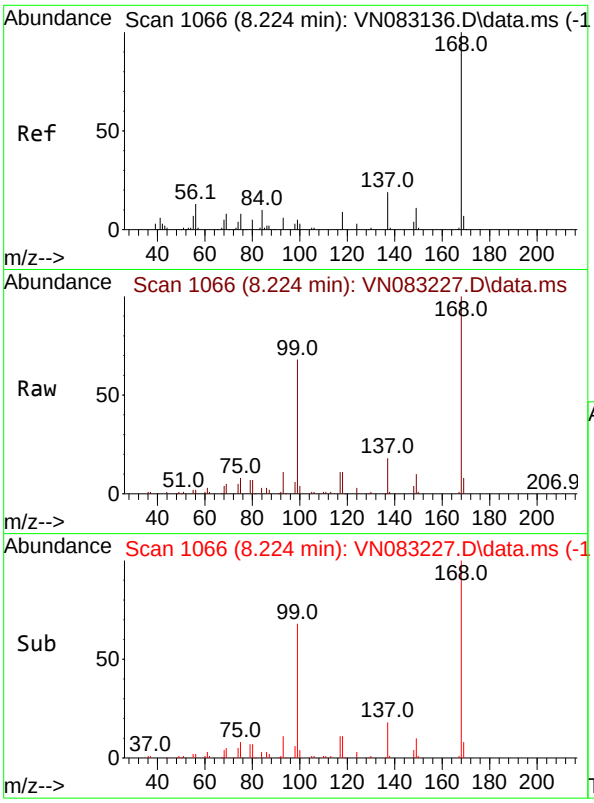
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081224\
Data File : VN083227.D
Acq On : 12 Aug 2024 10:46
Operator : JC\MD
Sample : VN0812WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBL01

Quant Time: Aug 13 04:12:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration



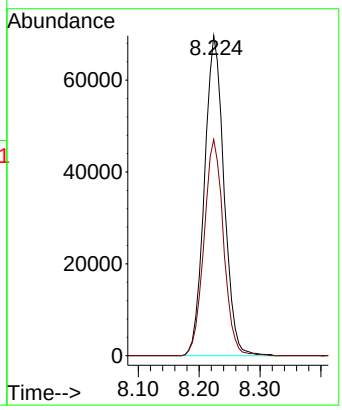


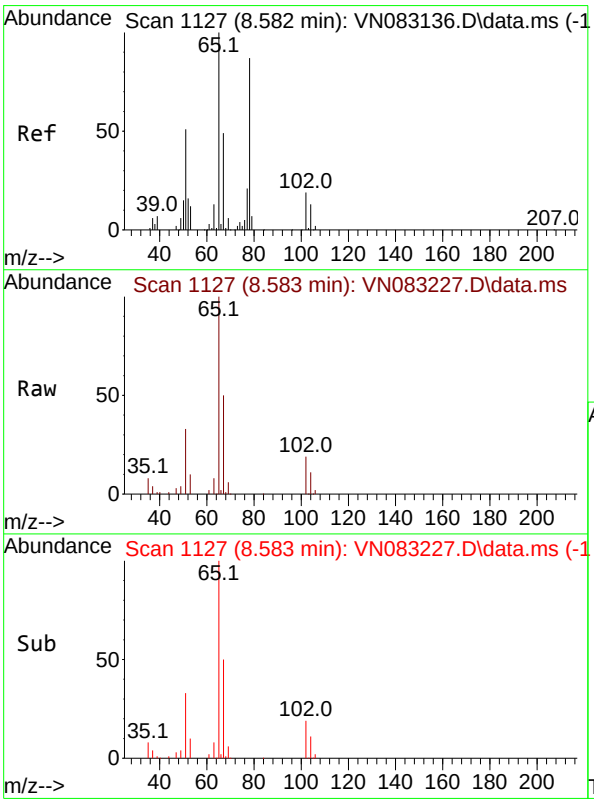
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083227.D
Acq: 12 Aug 2024 10:46

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBL01

Tgt Ion:168 Resp: 155185

Ion	Ratio	Lower	Upper
168	100		
99	67.6	48.2	72.4

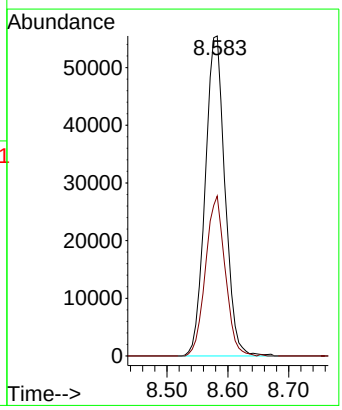


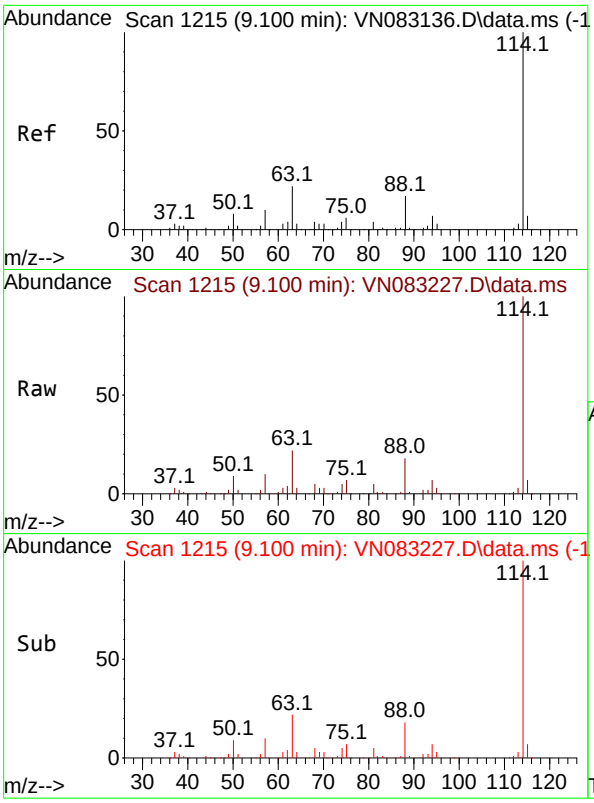


#33
1,2-Dichloroethane-d4
Concen: 56.570 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN083227.D
Acq: 12 Aug 2024 10:46

Tgt Ion: 65 Resp: 124957

Ion	Ratio	Lower	Upper
65	100		
67	49.7	0.0	104.4



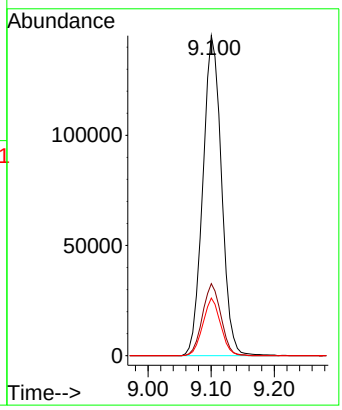


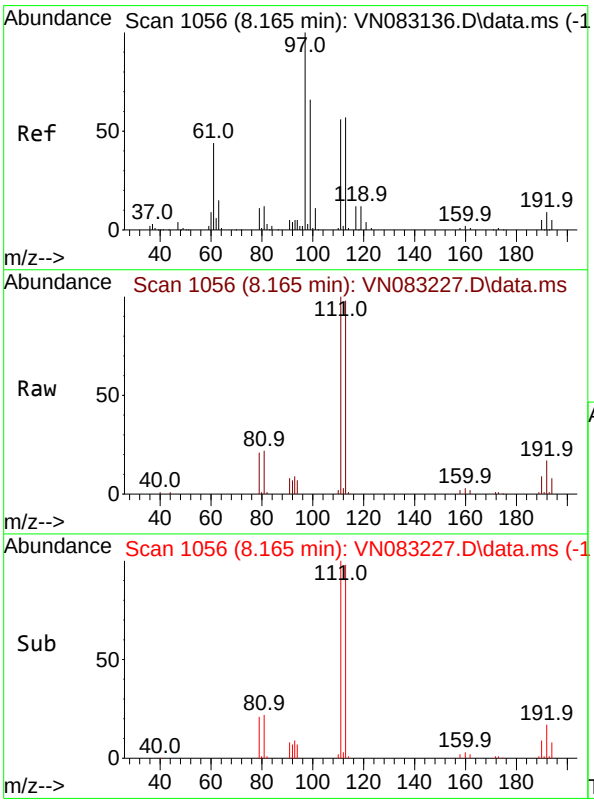
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083227.D
Acq: 12 Aug 2024 10:46

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBL01

Tgt Ion:114 Resp: 297997

Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	44.6
88	18.0	0.0	31.4

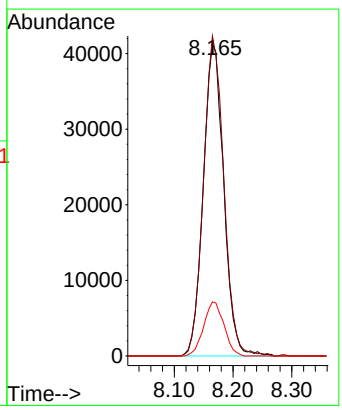


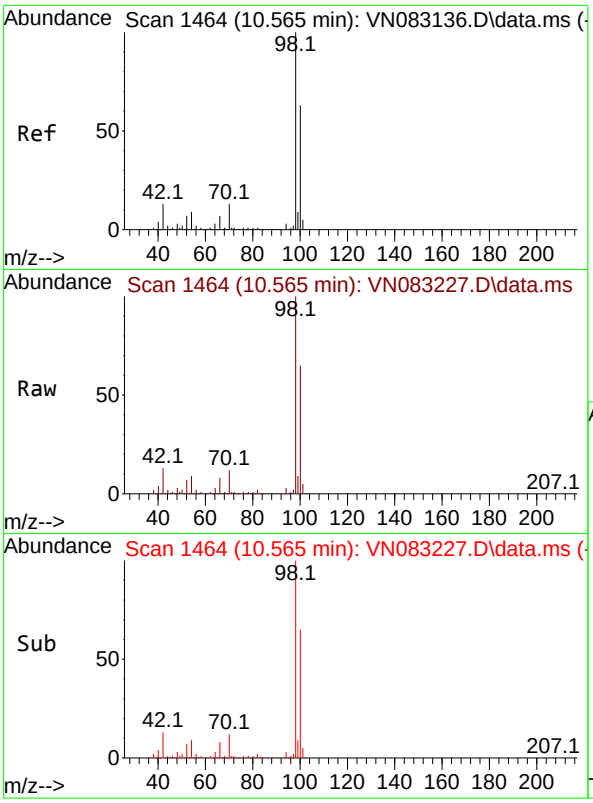


#35
Dibromofluoromethane
Concen: 53.571 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN083227.D
Acq: 12 Aug 2024 10:46

Tgt Ion:113 Resp: 99644

Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.4	123.6
192	17.2	14.9	22.3



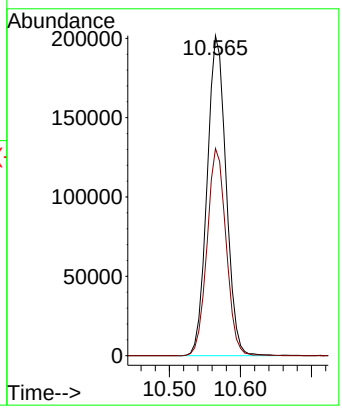


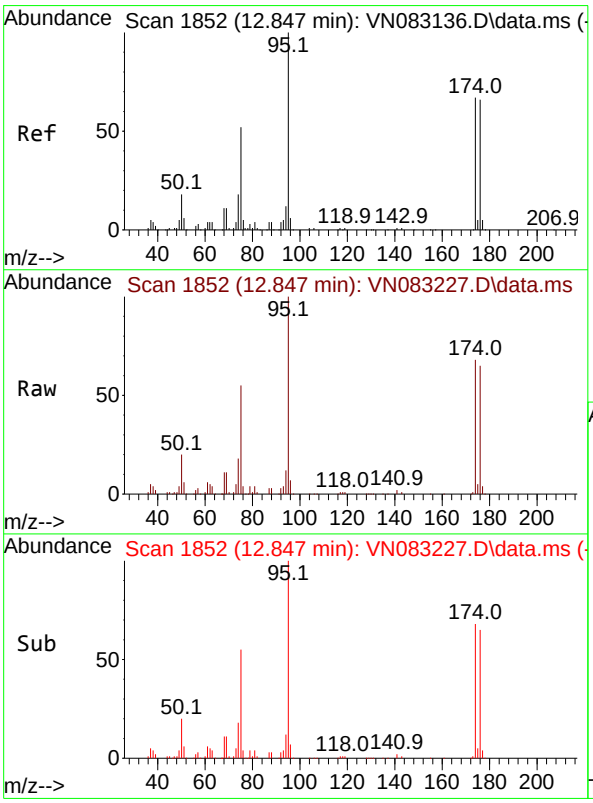
#50
Toluene-d8
Concen: 53.891 ug/l
RT: 10.565 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN083227.D
Acq: 12 Aug 2024 10:46

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBL01

Tgt Ion: 98 Resp: 373919

Ion	Ratio	Lower	Upper
98	100		
100	64.9	51.5	77.3

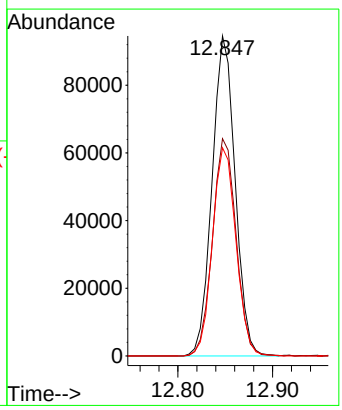


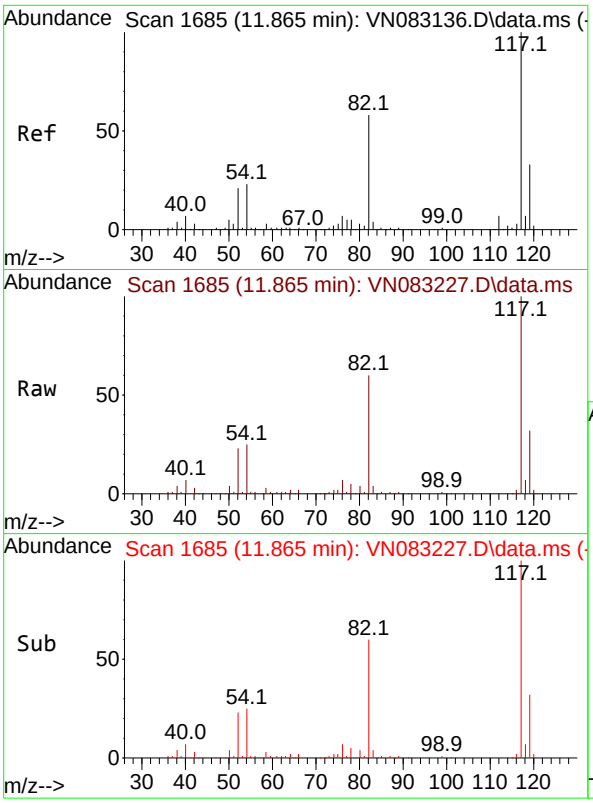


#62
4-Bromofluorobenzene
Concen: 59.130 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083227.D
Acq: 12 Aug 2024 10:46

Tgt Ion: 95 Resp: 159944

Ion	Ratio	Lower	Upper
95	100		
174	69.4	0.0	159.2
176	66.6	0.0	147.6



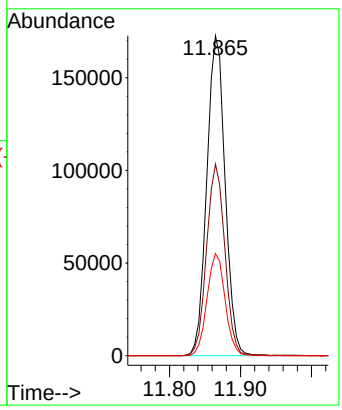


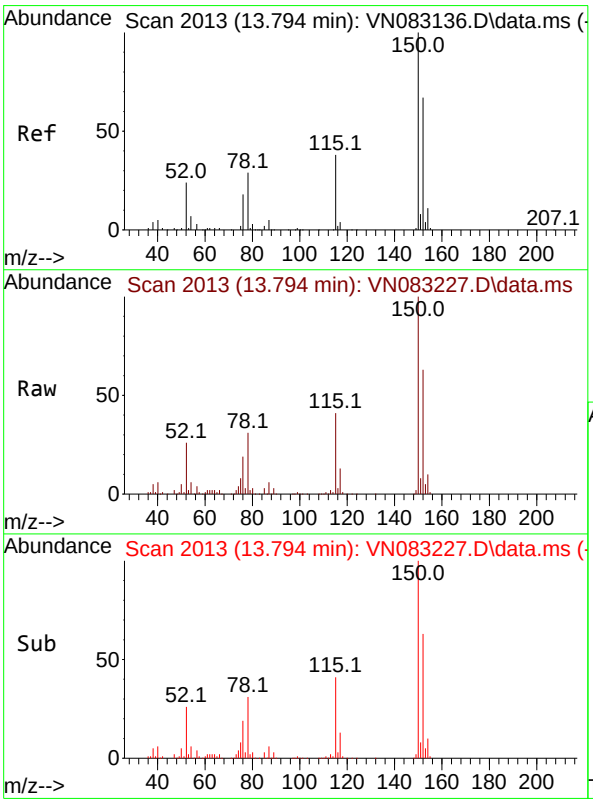
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083227.D
Acq: 12 Aug 2024 10:46

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBL01

Tgt Ion:117 Resp: 309712

Ion	Ratio	Lower	Upper
117	100		
82	59.9	47.5	71.3
119	31.9	25.6	38.4

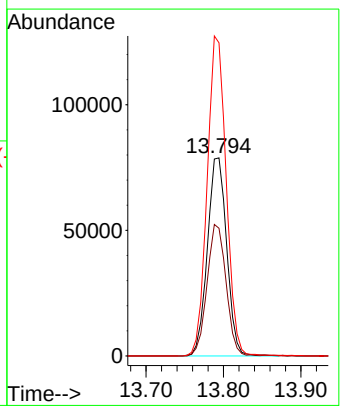




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083227.D
Acq: 12 Aug 2024 10:46

Tgt Ion:152 Resp: 137198

Ion	Ratio	Lower	Upper
152	100		
115	65.2	30.6	91.6
150	159.2	0.0	348.6



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:	VN0813WBL01	SDG No.:	P3429
Lab Sample ID:	VN0813WBL01	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
VN083248.D	1		08/13/24 11:16	VN081324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	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
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
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

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:	VN0813WBL01	SDG No.:	P3429
Lab Sample ID:	VN0813WBL01	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
VN083248.D	1		08/13/24 11:16	VN081324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.2		70 (74) - 130 (125)	112%	SPK: 50
1868-53-7	Dibromofluoromethane	52.6		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	53.1		70 (86) - 130 (113)	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.5		70 (77) - 130 (121)	113%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	151000	8.224			
540-36-3	1,4-Difluorobenzene	289000	9.1			
3114-55-4	Chlorobenzene-d5	292000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	128000	13.794			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083248.D
Acq On : 13 Aug 2024 11:16
Operator : JC\MD
Sample : VN0813WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBL01

Quant Time: Aug 14 01:39:13 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

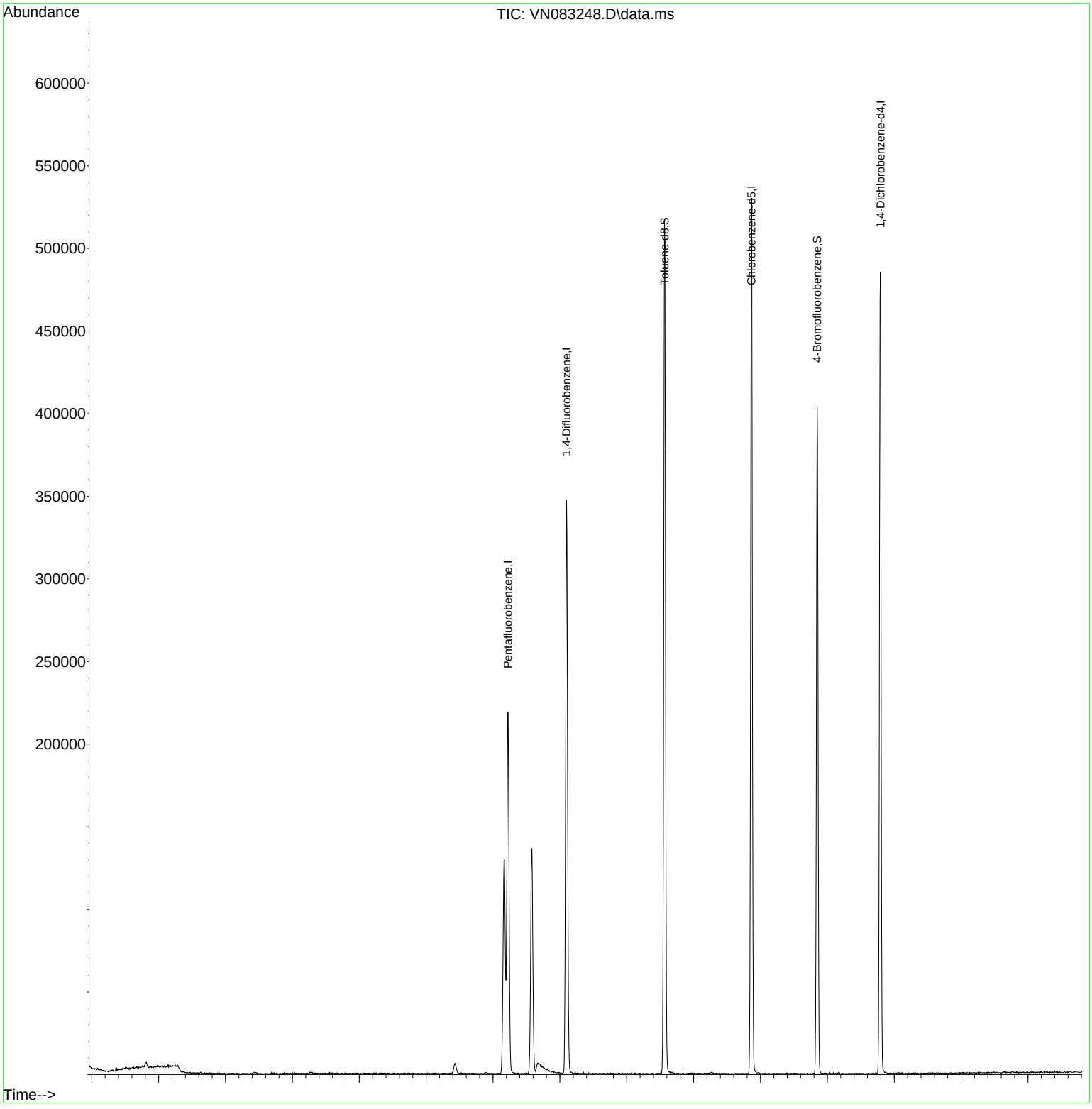
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	151482	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	289244	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	291555	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	128023	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	121149	56.187	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.380%			
35) Dibromofluoromethane	8.165	113	94883	52.555	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.120%			
50) Toluene-d8	10.565	98	357867	53.139	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.280%			
62) 4-Bromofluorobenzene	12.847	95	148317	56.490	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 112.980%			
Target Compounds						Qvalue

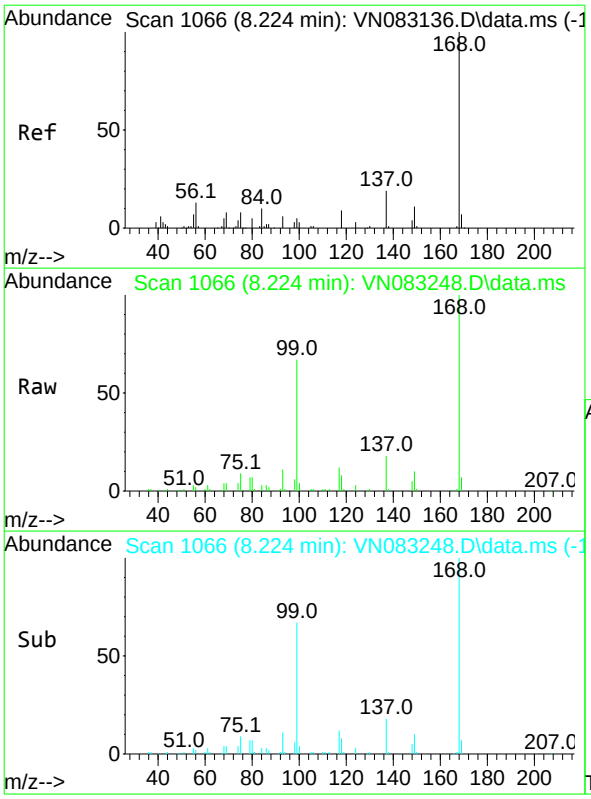
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083248.D
Acq On : 13 Aug 2024 11:16
Operator : JC\MD
Sample : VN0813WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBL01

Quant Time: Aug 14 01:39:13 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration



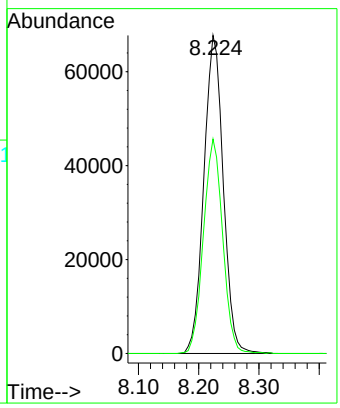


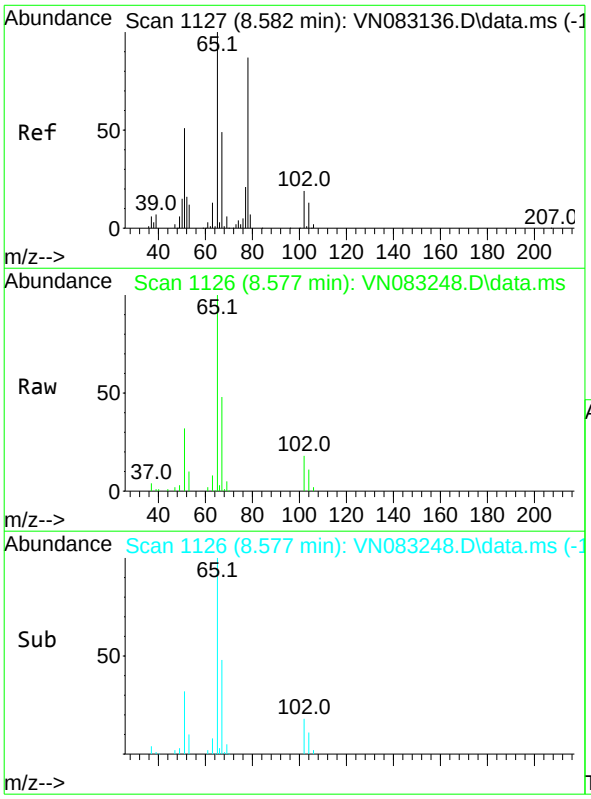
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN083248.D
Acq: 13 Aug 2024 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBL01

Tgt Ion:168 Resp: 151482

Ion	Ratio	Lower	Upper
168	100		
99	67.4	48.2	72.4

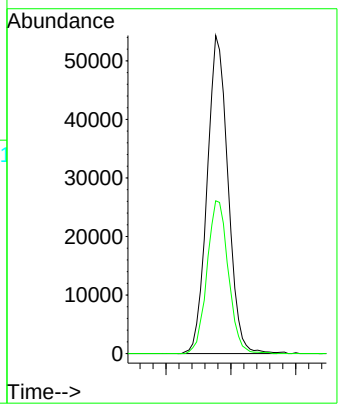


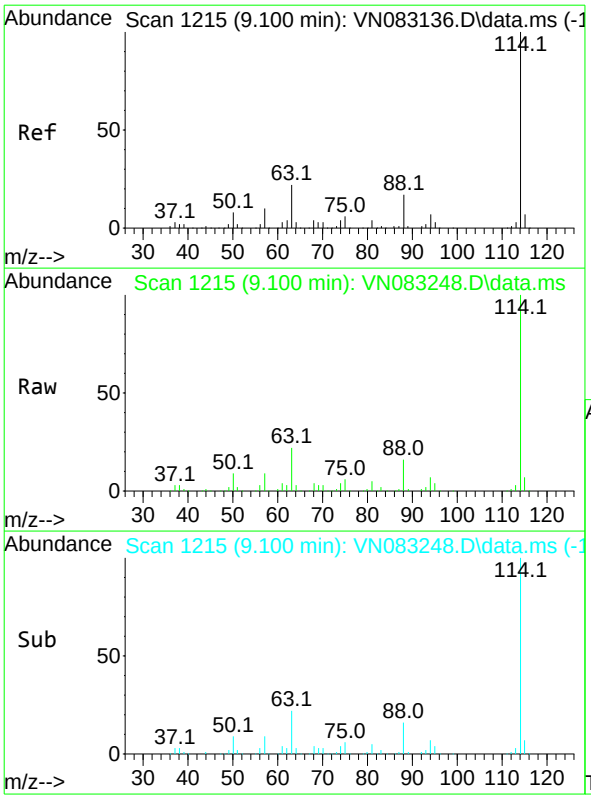


#33
1,2-Dichloroethane-d4
Concen: 56.187 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.006 min
Lab File: VN083248.D
Acq: 13 Aug 2024 11:16

Tgt Ion: 65 Resp: 121149

Ion	Ratio	Lower	Upper
65	100		
67	49.2	0.0	104.4



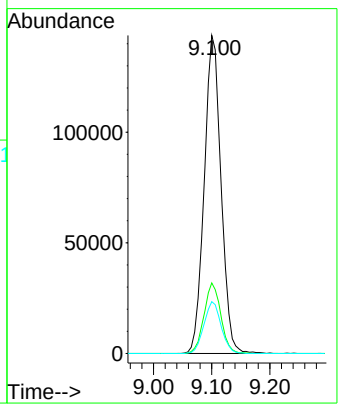


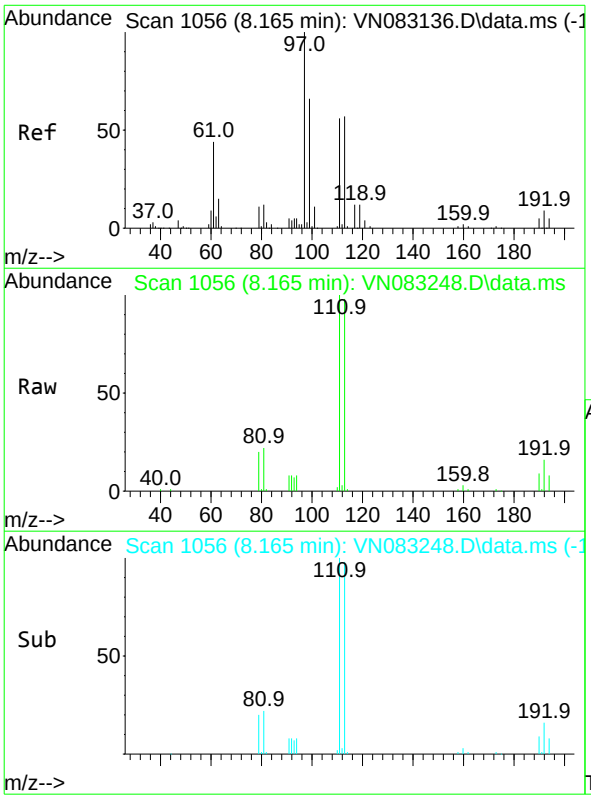
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. 0.000 min
Lab File: VN083248.D
Acq: 13 Aug 2024 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBL01

Tgt Ion:114 Resp: 289244

Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	44.6
88	16.3	0.0	31.4

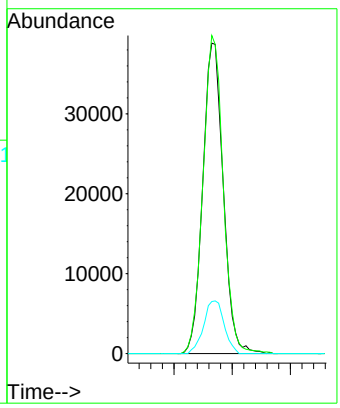


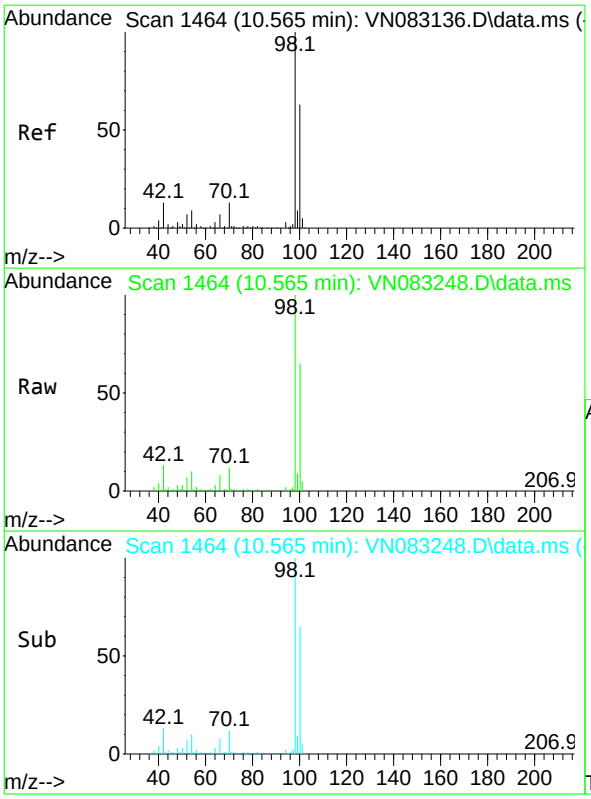


#35
Dibromofluoromethane
Concen: 52.555 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN083248.D
Acq: 13 Aug 2024 11:16

Tgt Ion:113 Resp: 94883

Ion	Ratio	Lower	Upper
113	100		
111	101.4	82.4	123.6
192	17.0	14.9	22.3



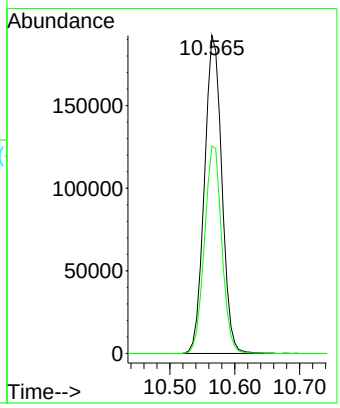


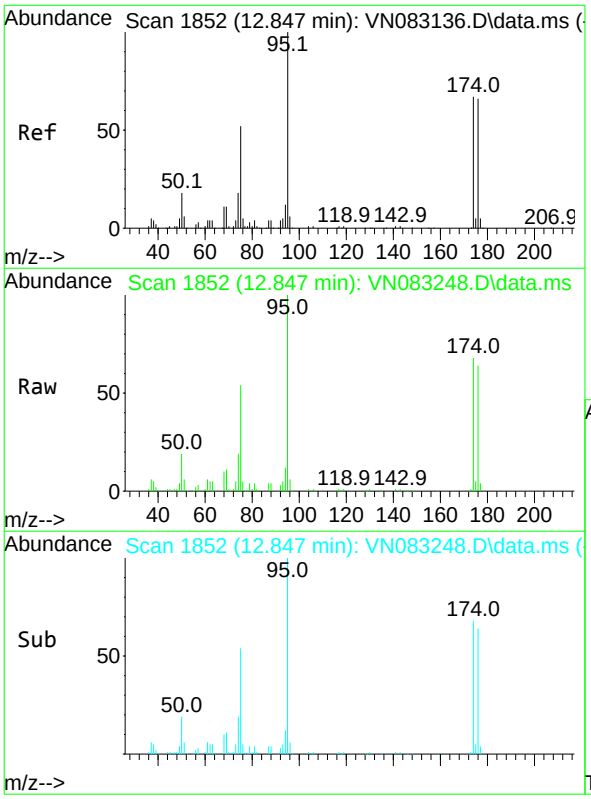
#50
Toluene-d8
Concen: 53.139 ug/l
RT: 10.565 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN083248.D
Acq: 13 Aug 2024 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBL01

Tgt Ion: 98 Resp: 357867

Ion	Ratio	Lower	Upper
98	100		
100	65.0	51.5	77.3

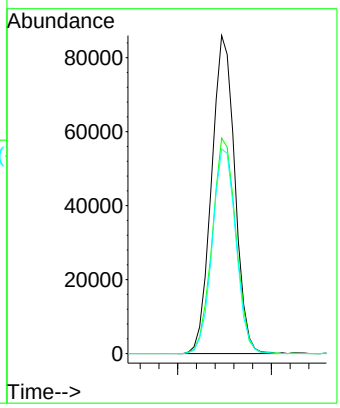


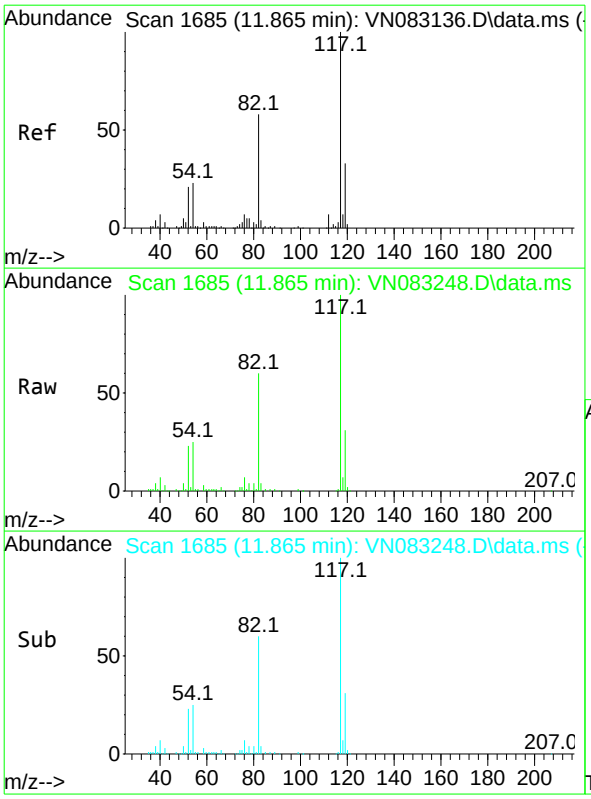


#62
4-Bromofluorobenzene
Concen: 56.490 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083248.D
Acq: 13 Aug 2024 11:16

Tgt Ion: 95 Resp: 148317

Ion	Ratio	Lower	Upper
95	100		
174	69.1	0.0	159.2
176	65.6	0.0	147.6



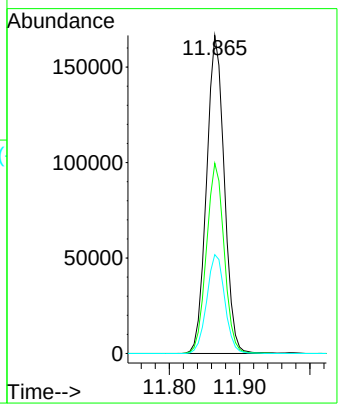


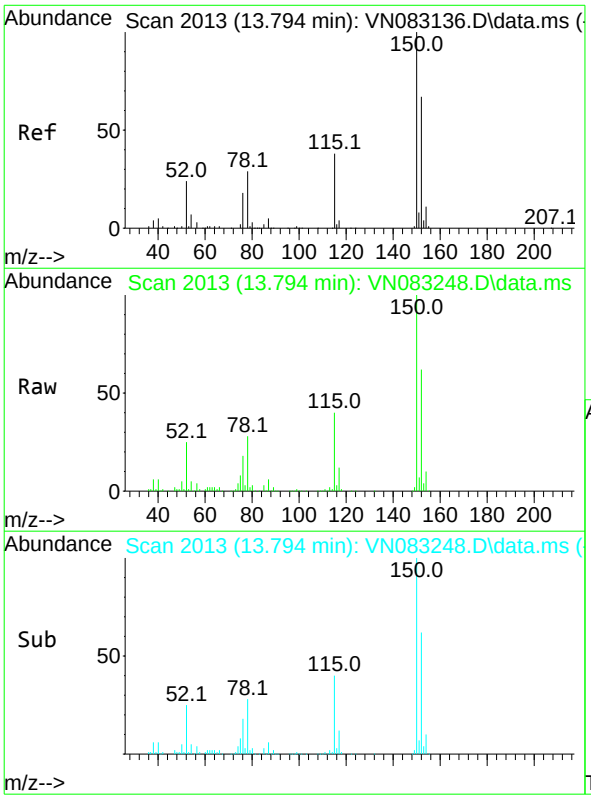
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN083248.D
Acq: 13 Aug 2024 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBL01

Tgt Ion:117 Resp: 291555

Ion	Ratio	Lower	Upper
117	100		
82	59.8	47.5	71.3
119	31.1	25.6	38.4

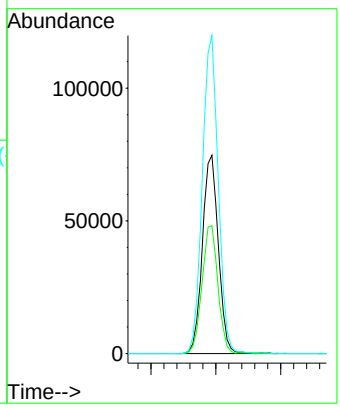




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083248.D
Acq: 13 Aug 2024 11:16

Tgt Ion:152 Resp: 128023

Ion	Ratio	Lower	Upper
152	100		
115	63.9	30.6	91.6
150	159.3	0.0	348.6



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:	VN0814WBL01	SDG No.:	P3429
Lab Sample ID:	VN0814WBL01	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
VN083297.D	1		08/14/24 13:39	VN081424

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
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	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
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
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

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:	VN0814WBL01	SDG No.:	P3429
Lab Sample ID:	VN0814WBL01	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
VN083297.D	1		08/14/24 13:39	VN081424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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	55.6		70 (74) - 130 (125)	111%	SPK: 50
1868-53-7	Dibromofluoromethane	53.1		70 (75) - 130 (124)	106%	SPK: 50
2037-26-5	Toluene-d8	54.2		70 (86) - 130 (113)	108%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.3		70 (77) - 130 (121)	113%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	145000	8.23			
540-36-3	1,4-Difluorobenzene	277000	9.1			
3114-55-4	Chlorobenzene-d5	287000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	128000	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\VN081424\
Data File : VN083297.D
Acq On : 14 Aug 2024 13:39
Operator : JC\MD
Sample : VN0814WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0814WBL01

Quant Time: Aug 14 23:22:14 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

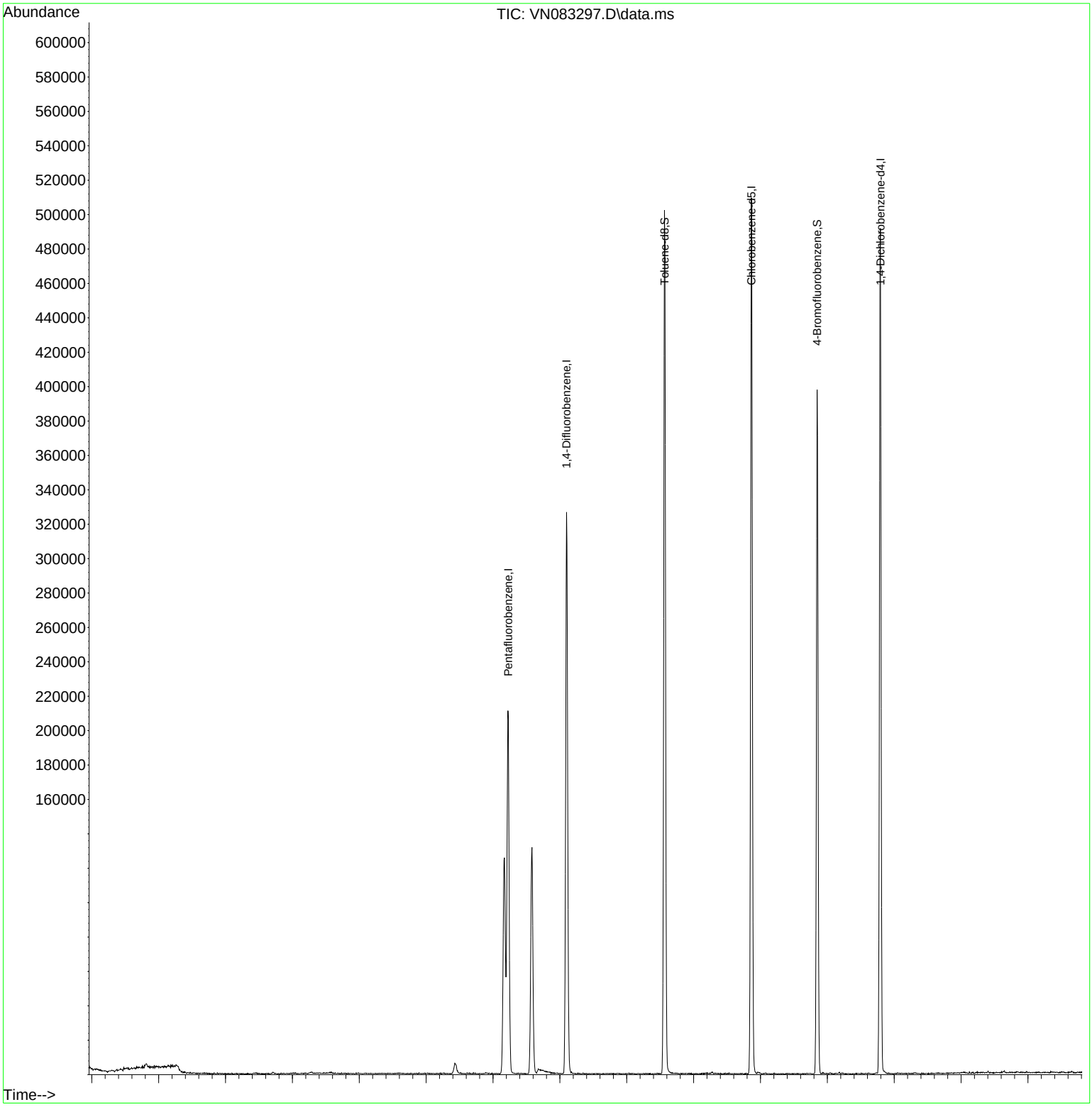
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	145129	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	276647	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	286871	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	128230	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	114917	55.630	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.260%			
35) Dibromofluoromethane	8.165	113	91714	53.113	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.220%			
50) Toluene-d8	10.565	98	349304	54.229	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 108.460%			
62) 4-Bromofluorobenzene	12.847	95	141438	56.323	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 112.640%			
Target Compounds						Qvalue

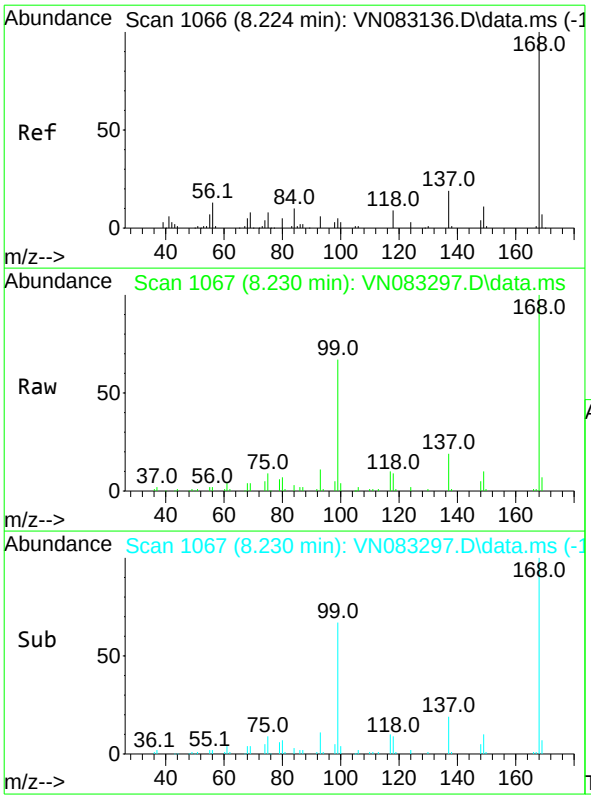
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081424\
Data File : VN083297.D
Acq On : 14 Aug 2024 13:39
Operator : JC\MD
Sample : VN0814WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0814WBL01

Quant Time: Aug 14 23:22:14 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



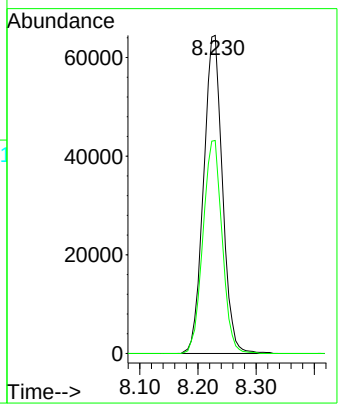


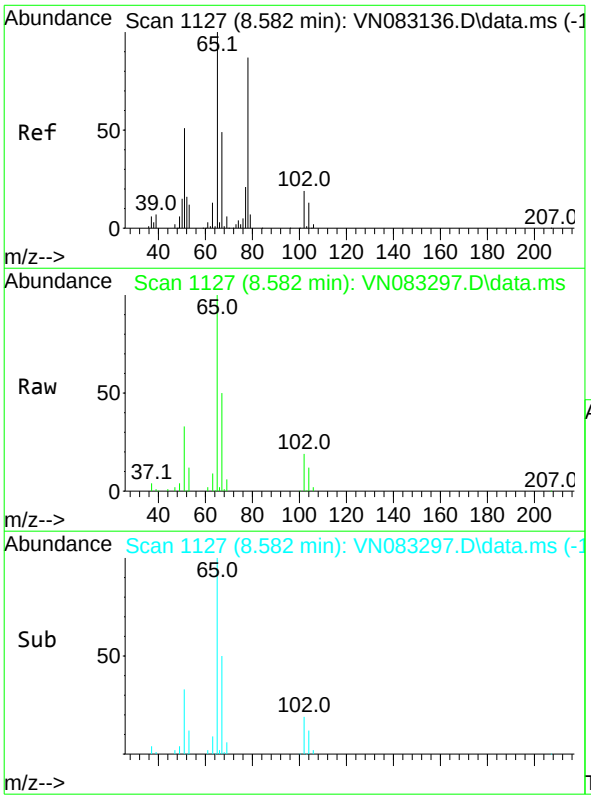
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN083297.D
Acq: 14 Aug 2024 13:39

Instrument :
MSVOA_N
ClientSampleId :
VN0814WBL01

Tgt Ion:168 Resp: 145129

Ion	Ratio	Lower	Upper
168	100		
99	67.0	48.2	72.4

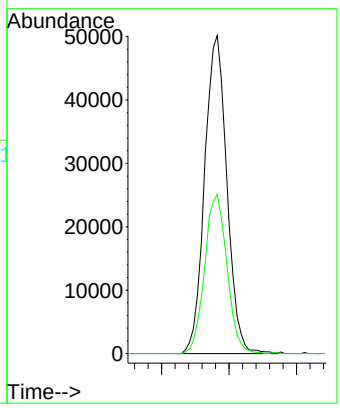


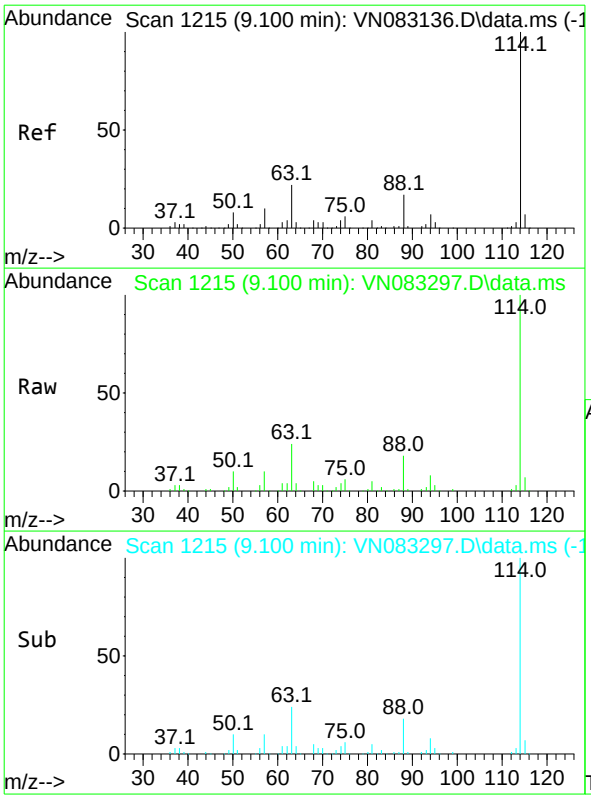


#33
1,2-Dichloroethane-d4
Concen: 55.630 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN083297.D
Acq: 14 Aug 2024 13:39

Tgt Ion: 65 Resp: 114917

Ion	Ratio	Lower	Upper
65	100		
67	50.2	0.0	104.4



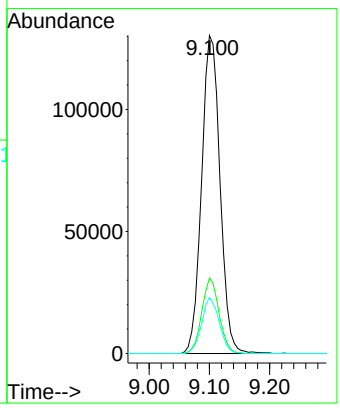


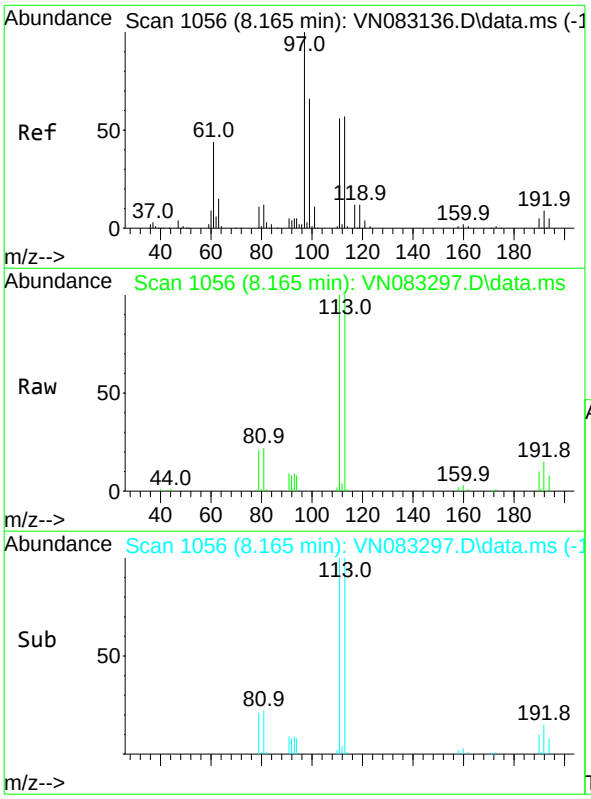
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. 0.000 min
Lab File: VN083297.D
Acq: 14 Aug 2024 13:39

Instrument :
MSVOA_N
ClientSampleId :
VN0814WBL01

Tgt Ion:114 Resp: 276647

Ion	Ratio	Lower	Upper
114	100		
63	23.8	0.0	44.6
88	17.6	0.0	31.4

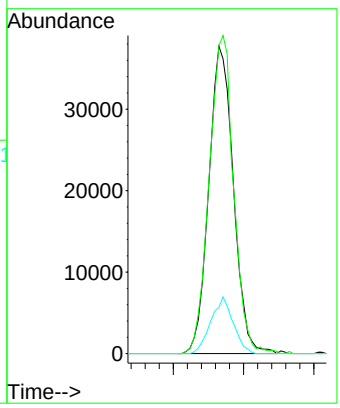


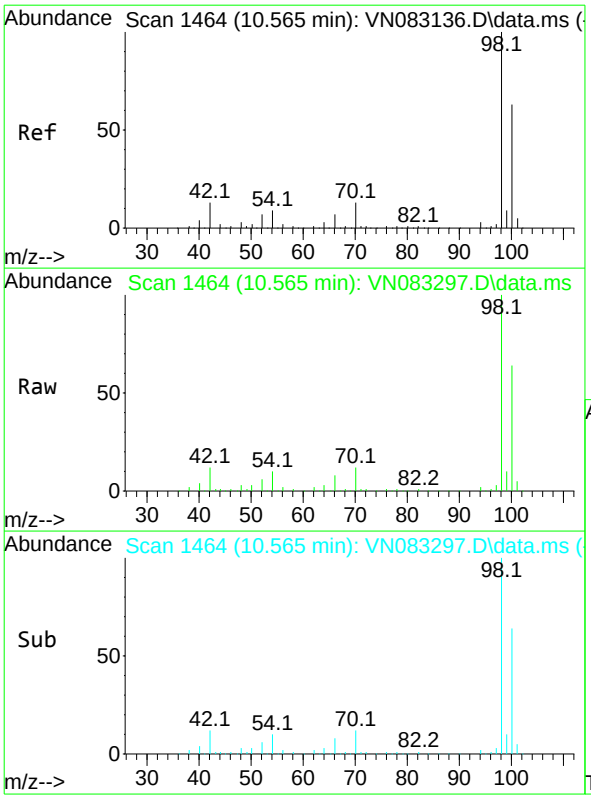


#35
Dibromofluoromethane
Concen: 53.113 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN083297.D
Acq: 14 Aug 2024 13:39

Tgt Ion:113 Resp: 91714

Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.4	123.6
192	16.7	14.9	22.3



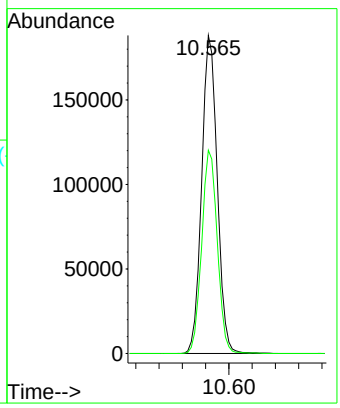


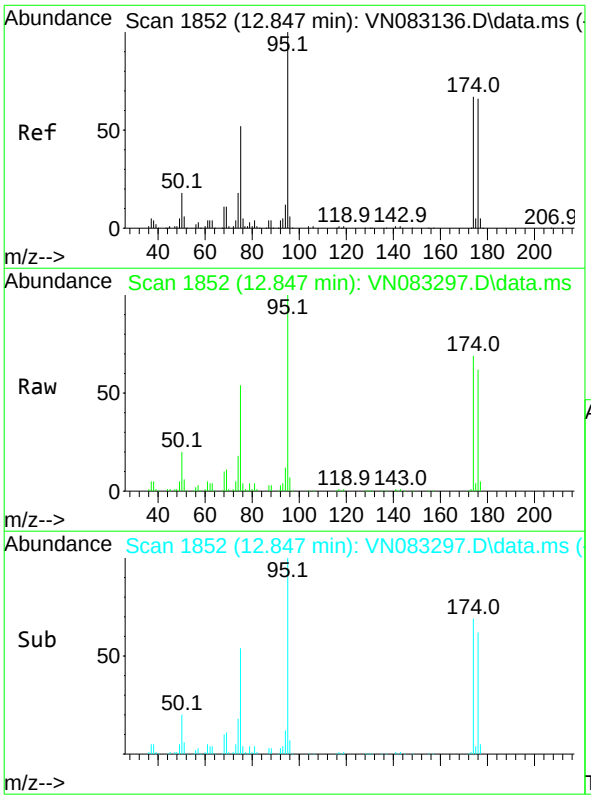
#50
Toluene-d8
Concen: 54.229 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN083297.D
Acq: 14 Aug 2024 13:39

Instrument :
MSVOA_N
ClientSampleId :
VN0814WBL01

Tgt Ion: 98 Resp: 349304

Ion	Ratio	Lower	Upper
98	100		
100	64.0	51.5	77.3

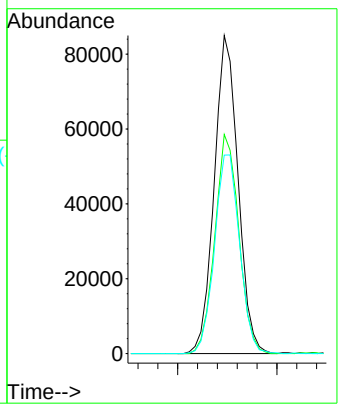


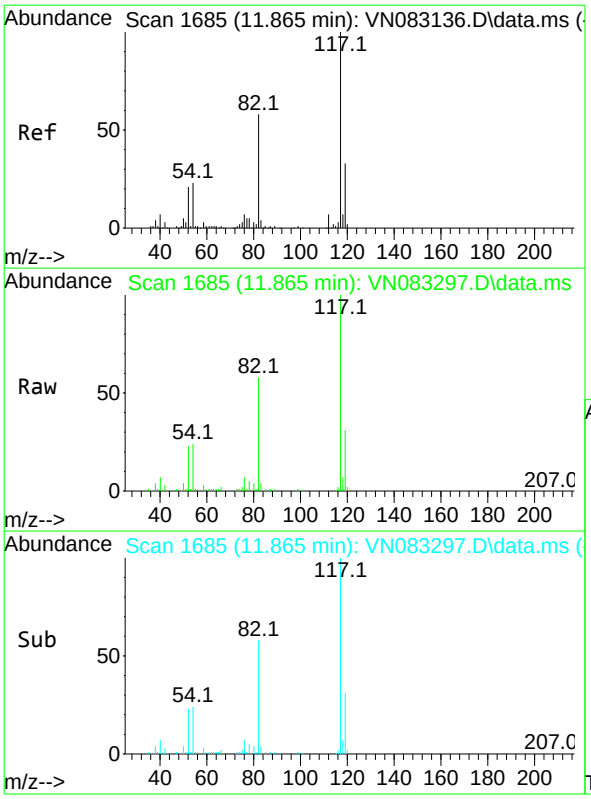


#62
4-Bromofluorobenzene
Concen: 56.323 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083297.D
Acq: 14 Aug 2024 13:39

Tgt Ion: 95 Resp: 141438

Ion	Ratio	Lower	Upper
95	100		
174	69.3	0.0	159.2
176	65.8	0.0	147.6



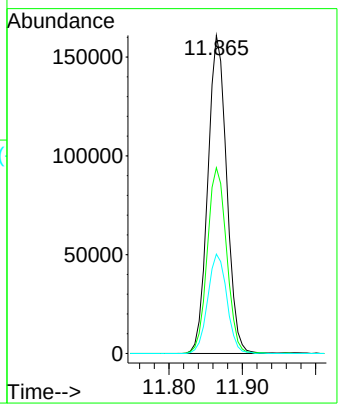


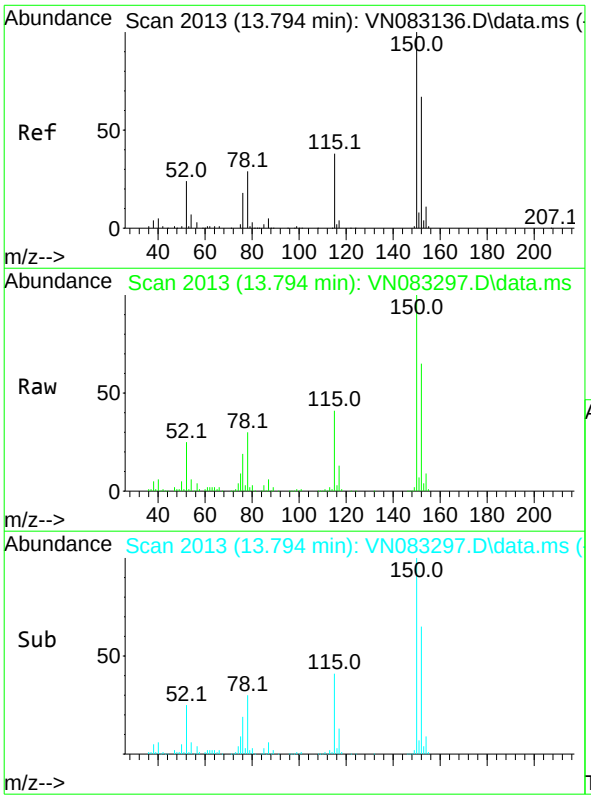
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN083297.D
Acq: 14 Aug 2024 13:39

Instrument :
MSVOA_N
ClientSampleId :
VN0814WBL01

Tgt Ion:117 Resp: 286871

Ion	Ratio	Lower	Upper
117	100		
82	58.4	47.5	71.3
119	31.3	25.6	38.4

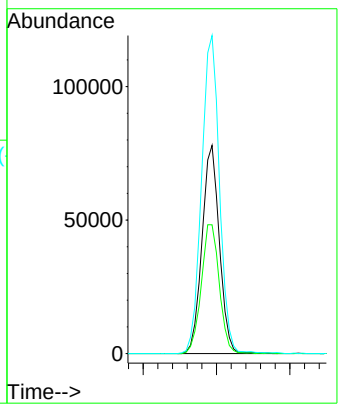




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083297.D
Acq: 14 Aug 2024 13:39

Tgt Ion:152 Resp: 128230

Ion	Ratio	Lower	Upper
152	100		
115	64.2	30.6	91.6
150	157.1	0.0	348.6



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:	VN0812WBS01	SDG No.:	P3429
Lab Sample ID:	VN0812WBS01	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
VN083228.D	1		08/12/24 11:10	VN081224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	16.4		0.21	1.00	ug/L
74-87-3	Chloromethane	16.4		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	17.1		0.34	1.00	ug/L
74-83-9	Bromomethane	17.4		1.40	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	16.8		0.25	1.00	ug/L
67-64-1	Acetone	83.8		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	14.5		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	16.8		0.16	1.00	ug/L
75-09-2	Methylene Chloride	15.9		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	16.5		0.25	1.00	ug/L
110-82-7	Cyclohexane	16.3		1.60	5.00	ug/L
78-93-3	2-Butanone	81.0		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	17.2		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	16.5		0.25	1.00	ug/L
67-66-3	Chloroform	17.5		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	17.3		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	16.2		0.19	1.00	ug/L
71-43-2	Benzene	17.1		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.3		0.24	1.00	ug/L
79-01-6	Trichloroethene	17.2		0.32	1.00	ug/L
75-27-4	Bromodichloromethane	16.9		0.24	1.00	ug/L
108-88-3	Toluene	17.2		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	17.6		0.21	1.00	ug/L
124-48-1	Dibromochloromethane	17.3		0.18	1.00	ug/L
127-18-4	Tetrachloroethene	17.3		0.25	1.00	ug/L
108-90-7	Chlorobenzene	17.1		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	16.9		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	33.9		0.31	2.00	ug/L
1330-20-7	Total Xylenes	50.9		0.45	3.00	ug/L
95-47-6	o-Xylene	17.0		0.14	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:	VN0812WBS01	SDG No.:	P3429
Lab Sample ID:	VN0812WBS01	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
VN083228.D	1		08/12/24 11:10	VN081224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
98-82-8	Isopropylbenzene	17.2		0.13	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	16.6		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	16.9		0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.1		70 (74) - 130 (125)	108%	SPK: 50
1868-53-7	Dibromofluoromethane	52.1		70 (75) - 130 (124)	104%	SPK: 50
2037-26-5	Toluene-d8	51.9		70 (86) - 130 (113)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.9		70 (77) - 130 (121)	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	193000	8.224			
540-36-3	1,4-Difluorobenzene	331000	9.1			
3114-55-4	Chlorobenzene-d5	284000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	131000	13.788			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081224\
Data File : VN083228.D
Acq On : 12 Aug 2024 11:10
Operator : JC\MD
Sample : VN0812WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 13 04:12:51 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 :
VN0812WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	193104	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	331101	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	283776	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	130523	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	148628	54.074	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.140%			
35) Dibromofluoromethane	8.171	113	107607	52.068	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.140%			
50) Toluene-d8	10.565	98	399905	51.874	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.740%			
62) 4-Bromofluorobenzene	12.847	95	150021	49.916	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 99.840%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	35867	16.379	ug/l	96
3) Chloromethane	2.365	50	36708	16.373	ug/l	99
4) Vinyl Chloride	2.518	62	39010	17.053	ug/l	99
5) Bromomethane	2.959	94	24633	17.354	ug/l	98
6) Chloroethane	3.118	64	24485	17.108	ug/l	99
7) Trichlorofluoromethane	3.500	101	64424	17.047	ug/l	98
8) Diethyl Ether	3.959	74	23561	16.754	ug/l	81
9) 1,1,2-Trichlorotrifluo...	4.371	101	35059	16.826	ug/l	99
10) Methyl Iodide	4.589	142	43574	15.898	ug/l	91
11) Tert butyl alcohol	5.518	59	43661	76.435	ug/l	99
12) 1,1-Dichloroethene	4.341	96	34992	16.347	ug/l	90
13) Acrolein	4.183	56	31591	84.857	ug/l	99
14) Allyl chloride	5.024	41	64414	15.924	ug/l	89
15) Acrylonitrile	5.718	53	95024	80.886	ug/l	98
16) Acetone	4.424	43	90085	83.759	ug/l	94
17) Carbon Disulfide	4.712	76	90613	14.467	ug/l	100
18) Methyl Acetate	5.024	43	53312	16.637	ug/l	93
19) Methyl tert-butyl Ether	5.800	73	129511	16.762	ug/l	99
20) Methylene Chloride	5.277	84	39445	15.936	ug/l #	80
21) trans-1,2-Dichloroethene	5.788	96	36446	16.473	ug/l	90
22) Diisopropyl ether	6.671	45	125770	16.540	ug/l	95
23) Vinyl Acetate	6.600	43	641406m	82.297	ug/l	
24) 1,1-Dichloroethane	6.571	63	71096	17.154	ug/l	99
25) 2-Butanone	7.482	43	133769	81.002	ug/l	91
26) 2,2-Dichloropropane	7.488	77	67894	17.639	ug/l	99
27) cis-1,2-Dichloroethene	7.488	96	43964	16.468	ug/l	93
28) Bromochloromethane	7.812	49	27049	15.970	ug/l #	21
29) Tetrahydrofuran	7.841	42	86814	81.321	ug/l	90
30) Chloroform	7.965	83	75322	17.493	ug/l	94
31) Cyclohexane	8.259	56	66190	16.250	ug/l	95
32) 1,1,1-Trichloroethane	8.171	97	70502	17.298	ug/l	92
36) 1,1-Dichloropropene	8.371	75	52212	16.701	ug/l	99
37) Ethyl Acetate	7.559	43	54093	15.453	ug/l #	93
38) Carbon Tetrachloride	8.365	117	60652	17.225	ug/l	99
39) Methylcyclohexane	9.600	83	62108	16.174	ug/l	96
40) Benzene	8.606	78	158813	17.052	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081224\
Data File : VN083228.D
Acq On : 12 Aug 2024 11:10
Operator : JC\MD
Sample : VN0812WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 13 04:12:51 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 :
VN0812WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.782	41	29865	15.006	ug/l		94
42) 1,2-Dichloroethane	8.671	62	62241	18.346	ug/l		100
43) Isopropyl Acetate	8.688	43	100087	14.996	ug/l	#	95
44) Trichloroethene	9.353	130	38215	17.239	ug/l		99
45) 1,2-Dichloropropane	9.623	63	38239	17.297	ug/l		97
46) Dibromomethane	9.706	93	28189	17.814	ug/l		97
47) Bromodichloromethane	9.888	83	60126	16.923	ug/l		99
48) Methyl methacrylate	9.682	41	46342	16.014	ug/l		93
49) 1,4-Dioxane	9.694	88	17207	329.576	ug/l		97
51) 4-Methyl-2-Pentanone	10.447	43	276278	83.465	ug/l		94
52) Toluene	10.629	92	100952	17.156	ug/l		97
53) t-1,3-Dichloropropene	10.835	75	62025	16.995	ug/l		96
54) cis-1,3-Dichloropropene	10.312	75	65184	16.792	ug/l		92
55) 1,1,2-Trichloroethane	11.018	97	37209	17.644	ug/l		99
56) Ethyl methacrylate	10.870	69	64678	16.269	ug/l	#	87
57) 1,3-Dichloropropane	11.165	76	65055	17.307	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	133461	79.420	ug/l		97
59) 2-Hexanone	11.194	43	208298	81.340	ug/l		94
60) Dibromochloromethane	11.359	129	44195	17.334	ug/l		100
61) 1,2-Dibromoethane	11.470	107	37195	16.790	ug/l		98
64) Tetrachloroethene	11.106	164	32577	17.334	ug/l		96
65) Chlorobenzene	11.888	112	107178	17.091	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.959	131	38446	17.383	ug/l		98
67) Ethyl Benzene	11.965	91	194629	16.918	ug/l		97
68) m/p-Xylenes	12.070	106	146169	33.919	ug/l		98
69) o-Xylene	12.394	106	72235	16.996	ug/l		99
70) Styrene	12.412	104	119364	16.721	ug/l		97
71) Bromoform	12.576	173	27927	16.668	ug/l	#	98
73) Isopropylbenzene	12.694	105	187304	17.157	ug/l		100
74) N-amyl acetate	12.494	43	81860	15.329	ug/l		94
75) 1,1,2,2-Tetrachloroethane	12.941	83	50723	16.427	ug/l		97
76) 1,2,3-Trichloropropane	12.994	75	46083m	16.087	ug/l		
77) Bromobenzene	12.982	156	41759	17.219	ug/l		94
78) n-propylbenzene	13.035	91	214628	17.073	ug/l		100
79) 2-Chlorotoluene	13.123	91	135632	17.018	ug/l		97
80) 1,3,5-Trimethylbenzene	13.176	105	156743	17.149	ug/l		97
81) trans-1,4-Dichloro-2-b...	12.735	75	21268	16.150	ug/l		89
82) 4-Chlorotoluene	13.217	91	135189	16.910	ug/l		97
83) tert-Butylbenzene	13.435	119	137783	17.022	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	154931	16.820	ug/l		99
85) sec-Butylbenzene	13.617	105	185318	16.779	ug/l		99
86) p-Isopropyltoluene	13.729	119	152113	16.680	ug/l		97
87) 1,3-Dichlorobenzene	13.735	146	73369	16.078	ug/l		96
88) 1,4-Dichlorobenzene	13.811	146	76396	16.606	ug/l		97
89) n-Butylbenzene	14.059	91	132718	16.796	ug/l		99
90) Hexachloroethane	14.335	117	29007	16.464	ug/l		93
91) 1,2-Dichlorobenzene	14.106	146	74542	16.880	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.717	75	11355	15.155	ug/l		99
93) 1,2,4-Trichlorobenzene	15.388	180	39450	15.946	ug/l		96
94) Hexachlorobutadiene	15.500	225	16495	14.992	ug/l		98
95) Naphthalene	15.641	128	136795	15.610	ug/l		99
96) 1,2,3-Trichlorobenzene	15.841	180	38717	15.816	ug/l		95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081224\
Data File : VN083228.D
Acq On : 12 Aug 2024 11:10
Operator : JC\MD
Sample : VN0812WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 13 04:12:51 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 :
VN0812WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

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

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

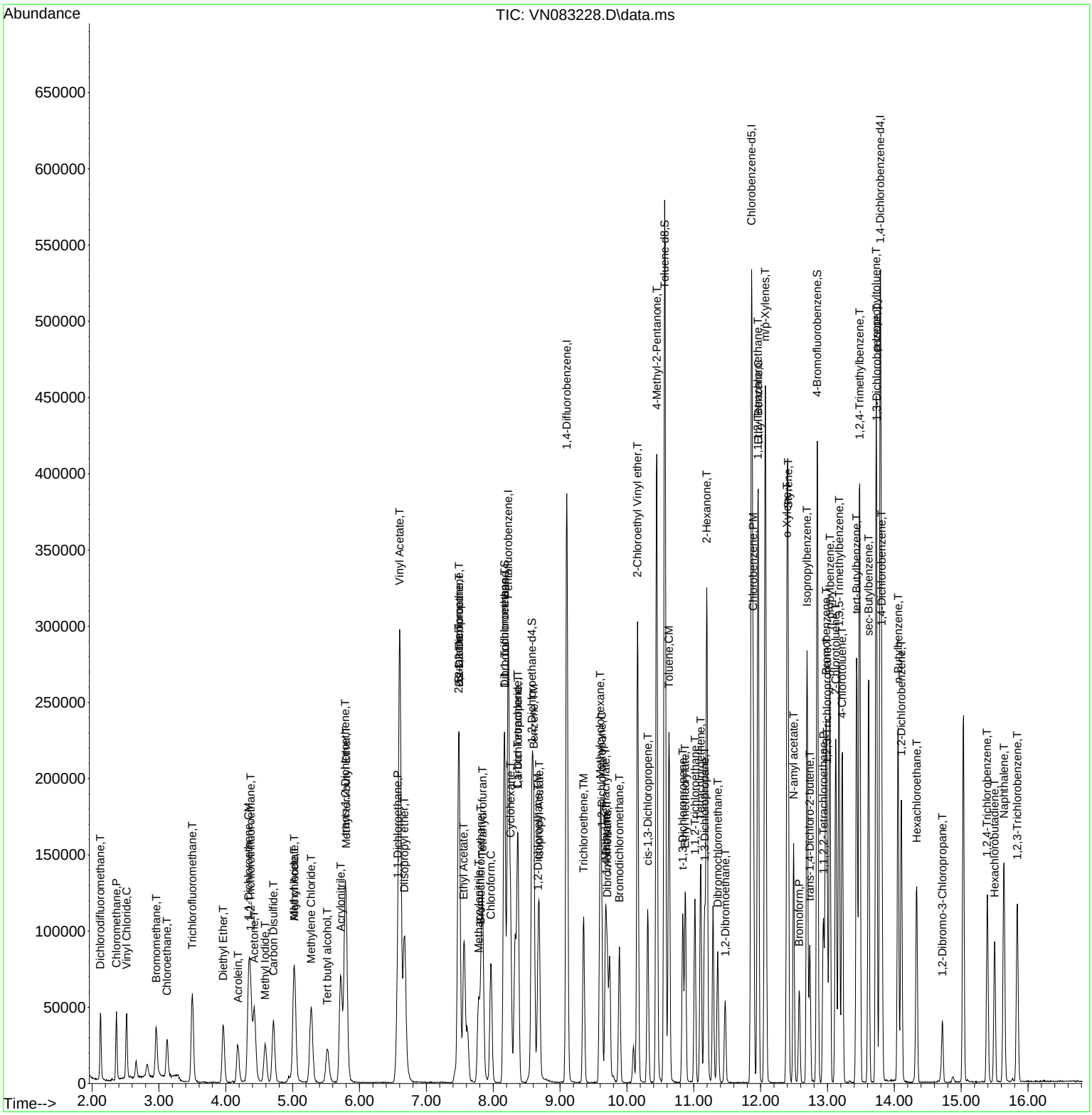
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081224\
Data File : VN083228.D
Acq On : 12 Aug 2024 11:10
Operator : JC\MD
Sample : VN0812WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

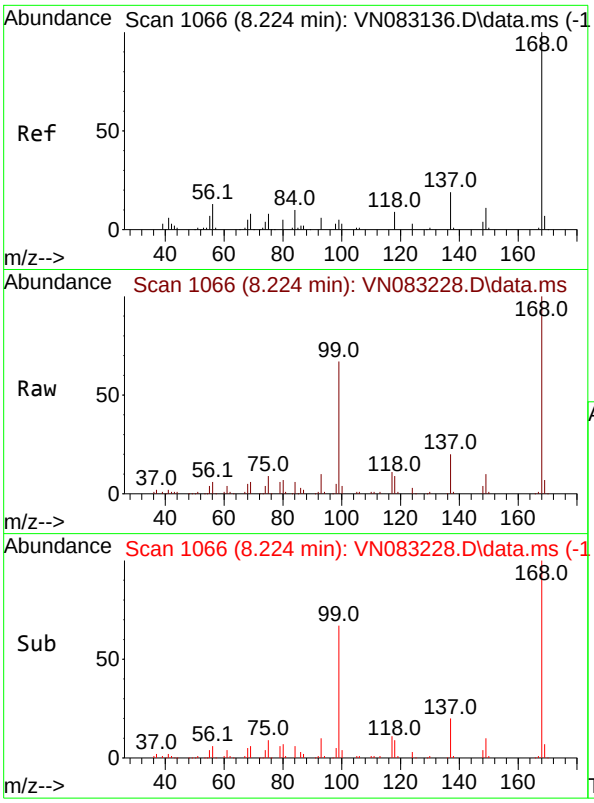
Quant Time: Aug 13 04:12:51 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

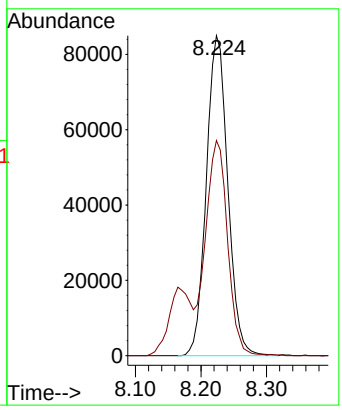




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion:168 Resp: 19310

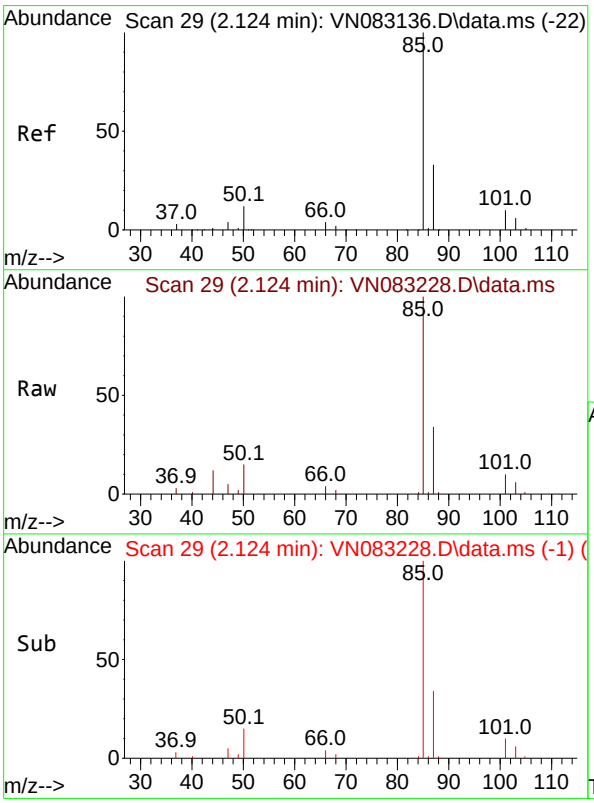
Ion	Ratio	Lower	Upper
168	100		
99	67.0	48.2	72.4



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations APPROVED

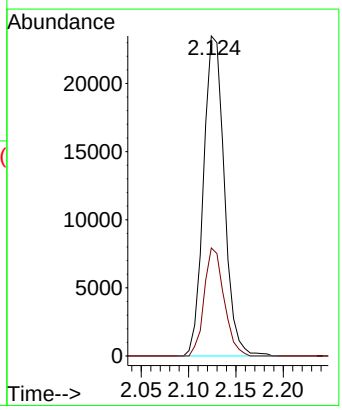
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

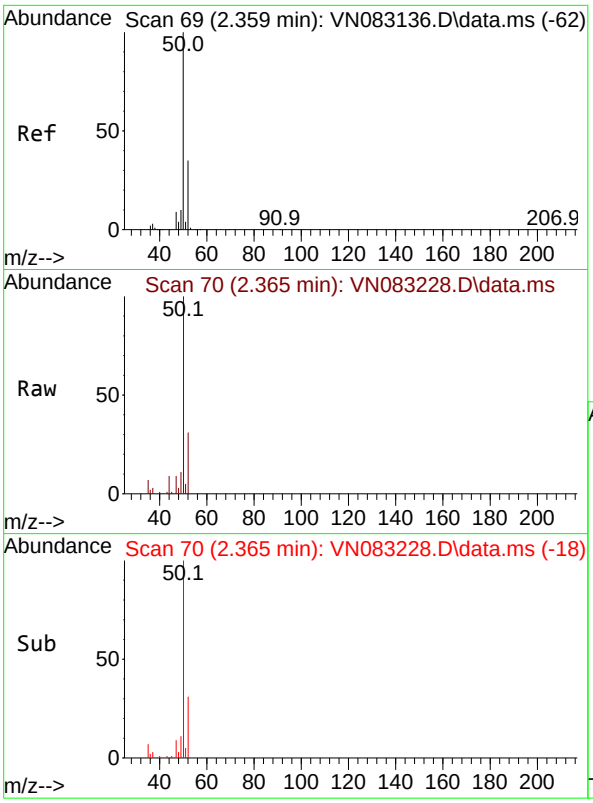


#2
Dichlorodifluoromethane
Concen: 16.379 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 85 Resp: 35867

Ion	Ratio	Lower	Upper
85	100		
87	33.7	15.7	47.0

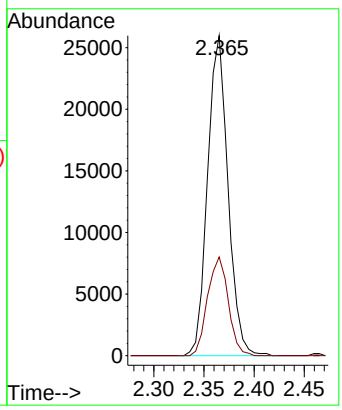




#3
Chloromethane
Concen: 16.373 ug/l
RT: 2.365 min Scan# 7
Delta R.T. 0.006 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 50 Resp: 3670

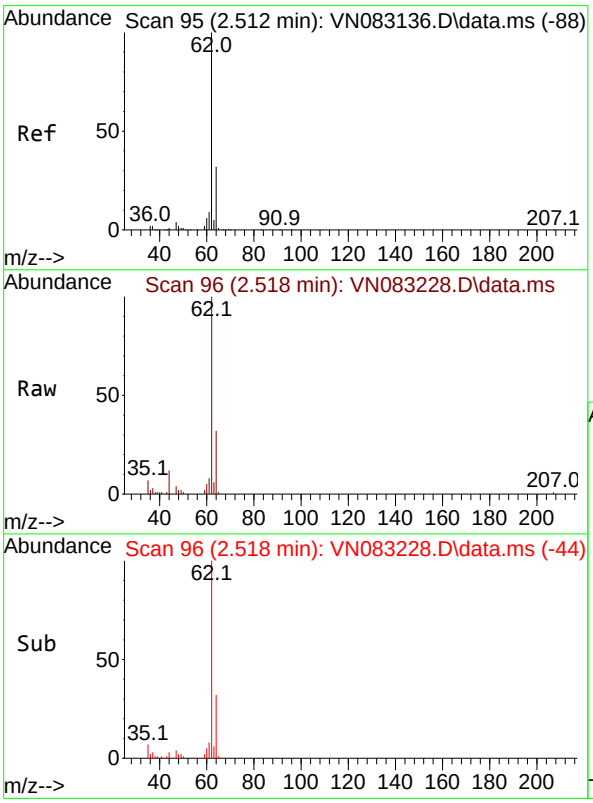
Ion	Ratio	Lower	Upper
50	100		
52	30.8	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

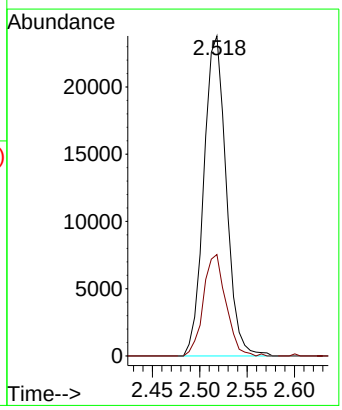
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

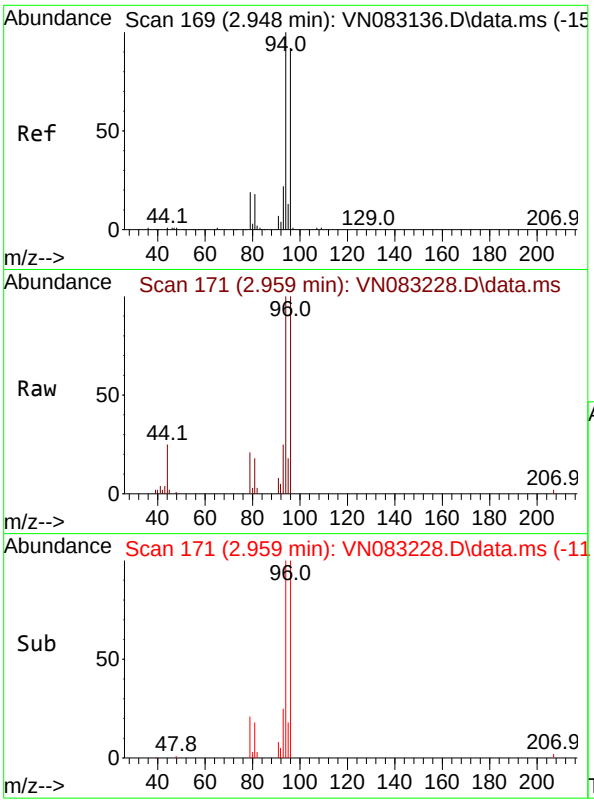


#4
Vinyl Chloride
Concen: 17.053 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 62 Resp: 39010

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.0	37.6

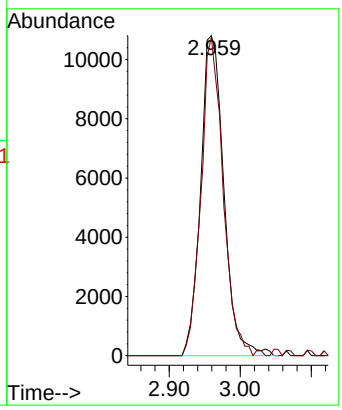




#5
Bromomethane
Concen: 17.354 ug/l
RT: 2.959 min Scan# 1
Delta R.T. 0.012 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 94 Resp: 2463

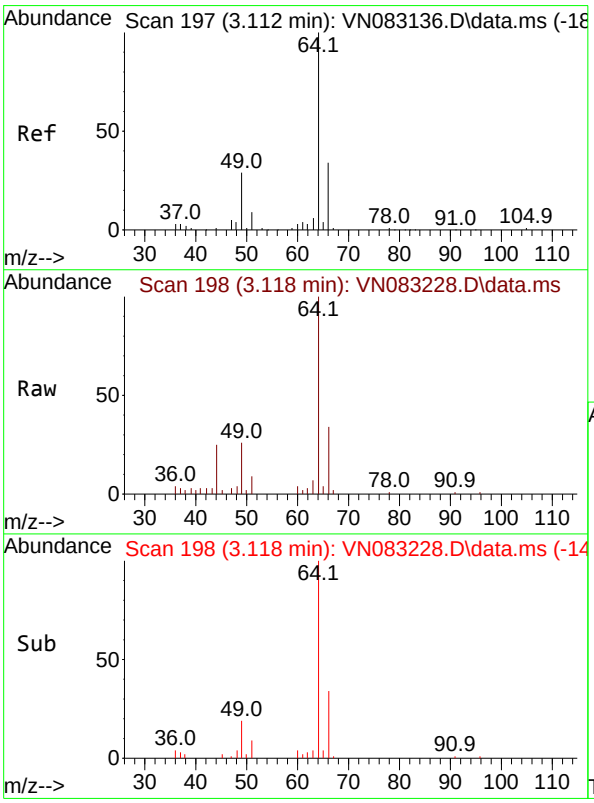
Ion	Ratio	Lower	Upper
94	100		
96	99.6	78.0	117.0



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations APPROVED

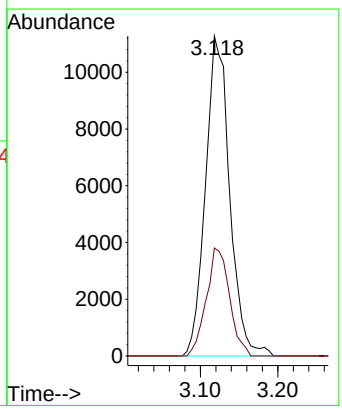
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

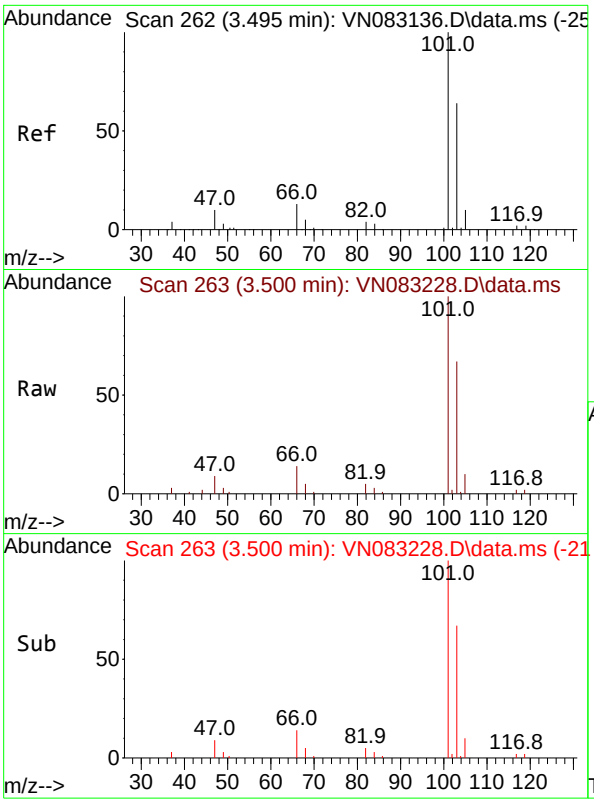


#6
Chloroethane
Concen: 17.108 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.006 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 64 Resp: 24485

Ion	Ratio	Lower	Upper
64	100		
66	33.8	26.6	40.0

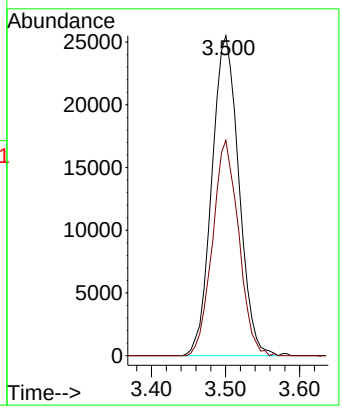




#7
Trichlorofluoromethane
Concen: 17.047 ug/l
RT: 3.500 min Scan# 2
Delta R.T. 0.005 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion:101 Resp: 6442

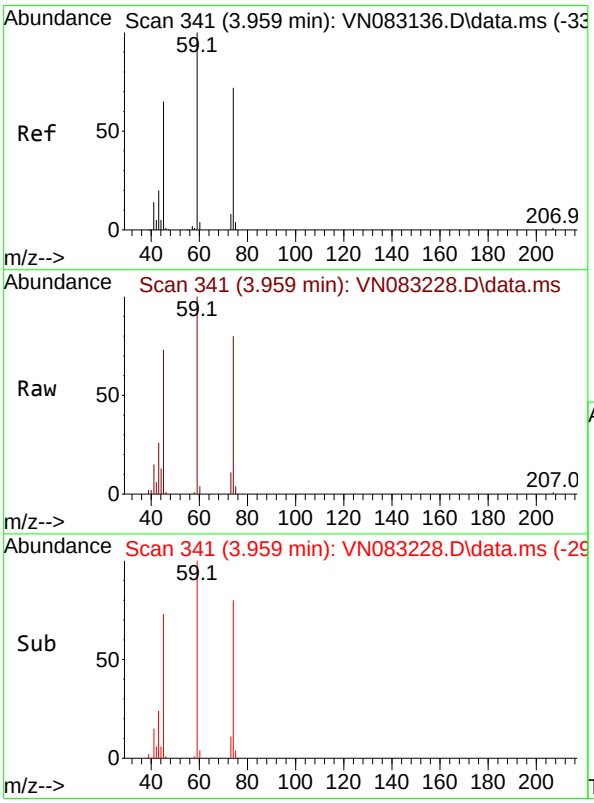
Ion	Ratio	Lower	Upper
101	100		
103	67.3	52.7	79.1



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

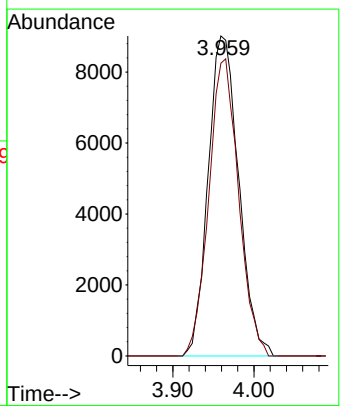
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

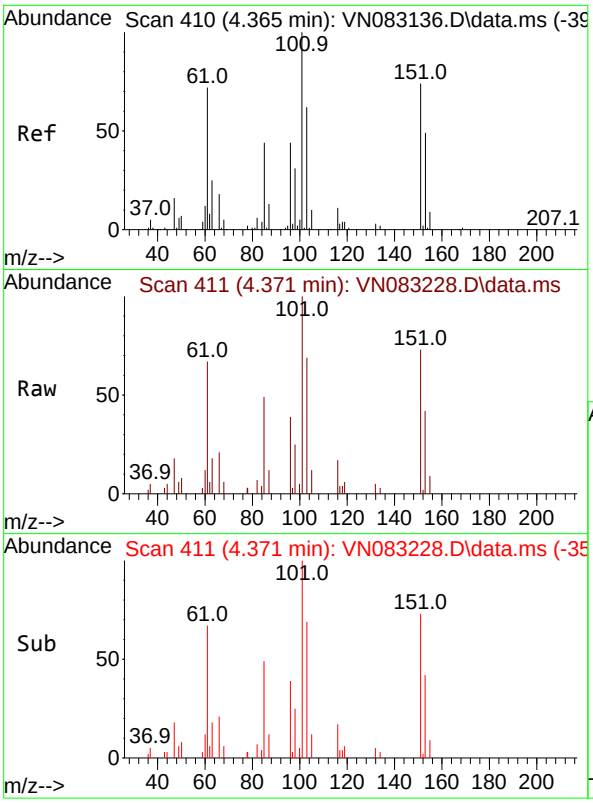


#8
Diethyl Ether
Concen: 16.754 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 74 Resp: 23561

Ion	Ratio	Lower	Upper
74	100		
45	90.5	55.5	166.3





#9
1,1,2-Trichlorotrifluoroethane
Concen: 16.826 ug/l
RT: 4.371 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

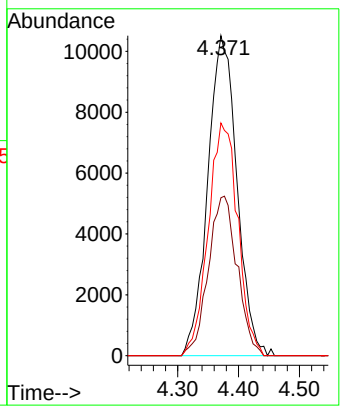
Tgt Ion:101 Resp: 3505

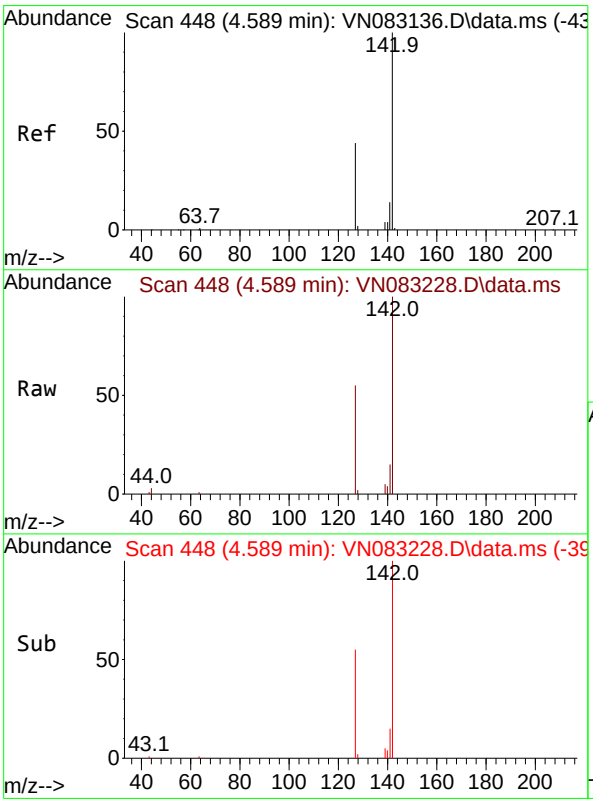
Ion	Ratio	Lower	Upper
101	100		
85	49.3	38.3	57.5
151	73.5	59.3	88.9

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

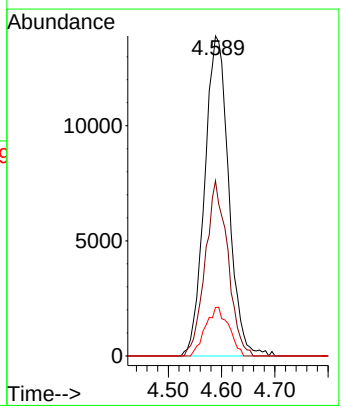


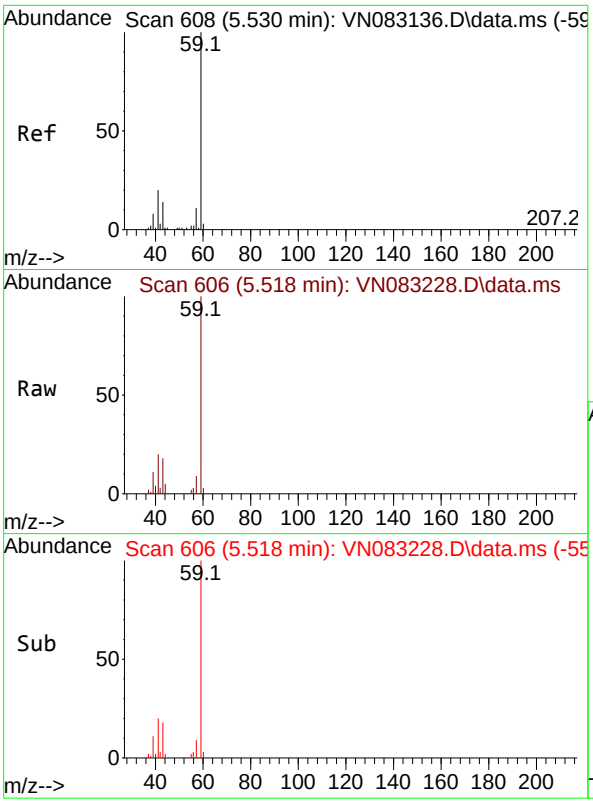


#10
Methyl Iodide
Concen: 15.898 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion:142 Resp: 43574

Ion	Ratio	Lower	Upper
142	100		
127	54.7	37.5	56.3
141	15.2	13.1	19.7

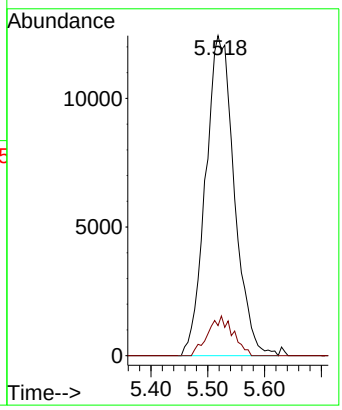




#11
Tert butyl alcohol
Concen: 76.435 ug/l
RT: 5.518 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 59 Resp: 4366

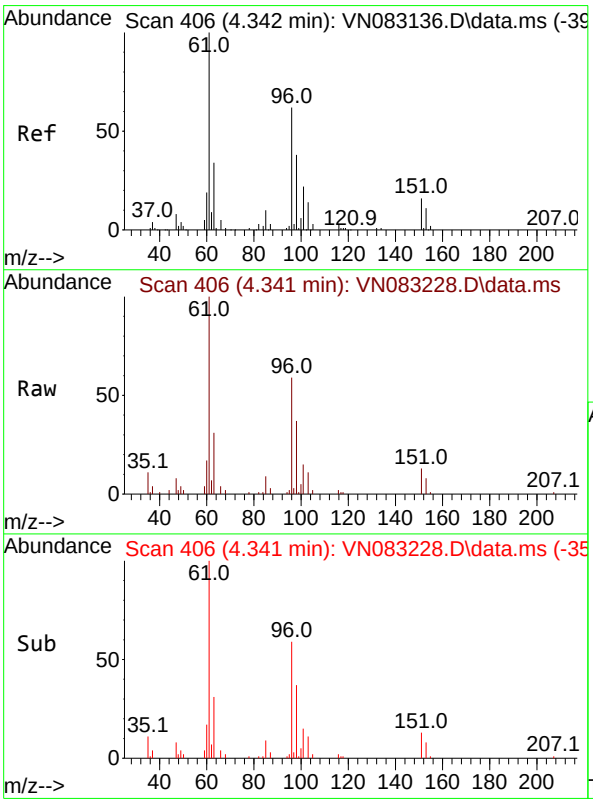
Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.9	13.3



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

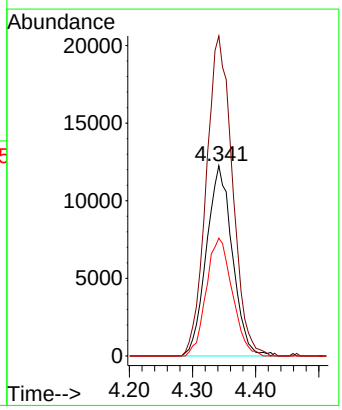
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

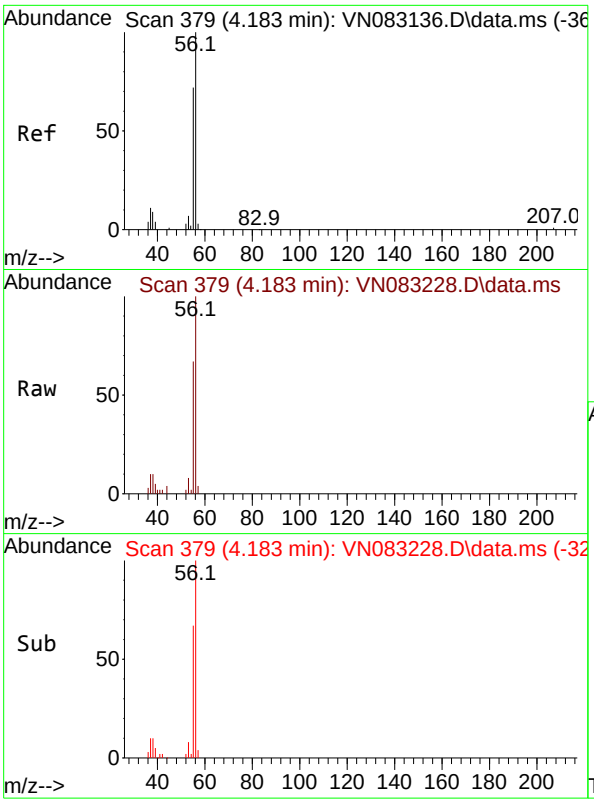


#12
1,1-Dichloroethene
Concen: 16.347 ug/l
RT: 4.341 min Scan# 406
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 96 Resp: 34992

Ion	Ratio	Lower	Upper
96	100		
61	168.2	149.7	224.5
98	61.9	50.1	75.1

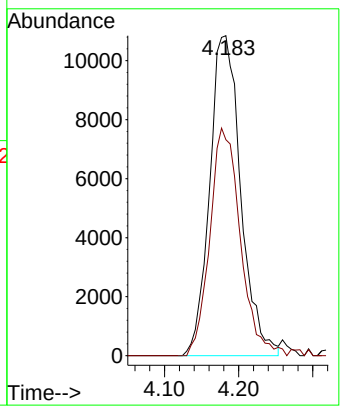




#13
Acrolein
Concen: 84.857 ug/l
RT: 4.183 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 56 Resp: 3159

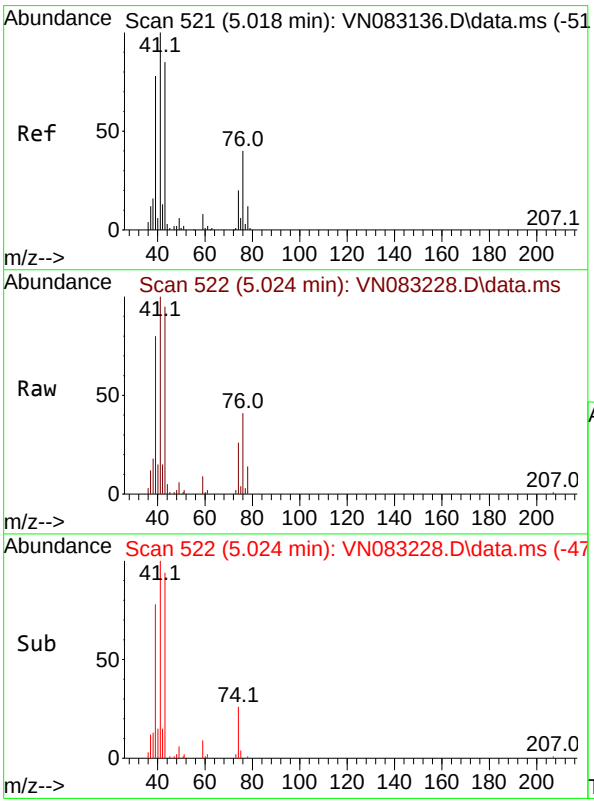
Ion	Ratio	Lower	Upper
56	100		
55	69.7	56.4	84.6



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

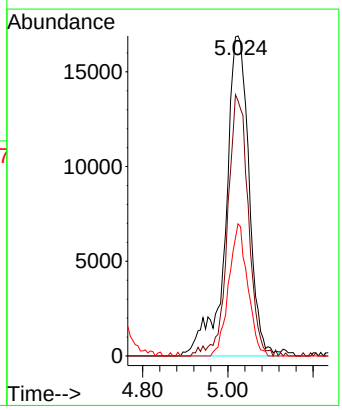
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

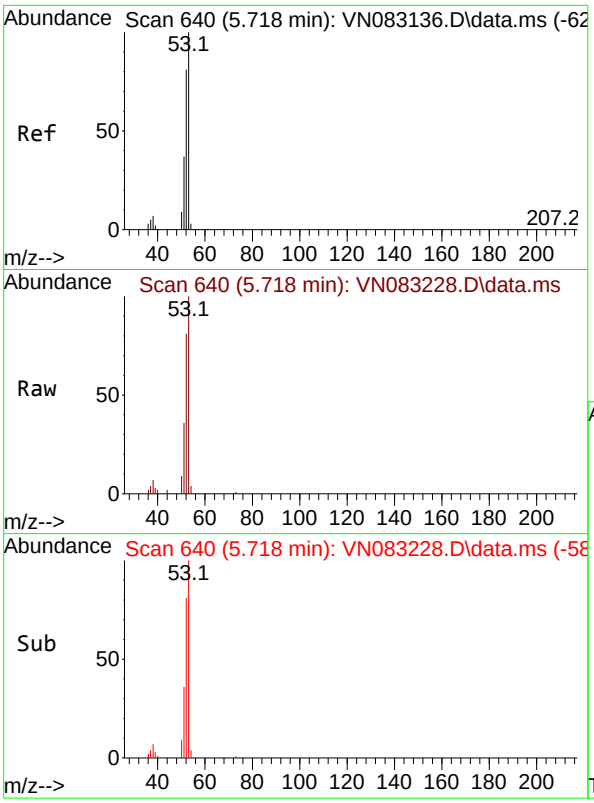


#14
Allyl chloride
Concen: 15.924 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 41 Resp: 64414

Ion	Ratio	Lower	Upper
41	100		
39	72.1	67.8	101.6
76	33.4	25.8	38.8

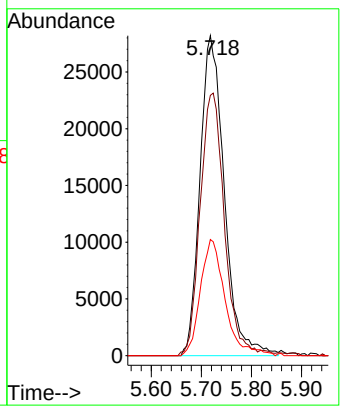




#15
Acrylonitrile
Concen: 80.886 ug/l
RT: 5.718 min Scan# 64
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 53 Resp: 9502

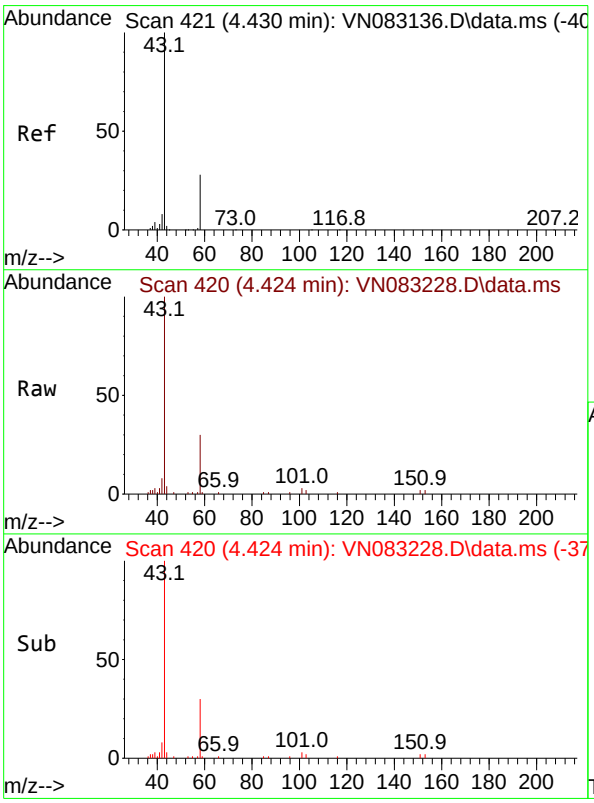
Ion	Ratio	Lower	Upper
53	100		
52	81.2	66.6	100.0
51	36.9	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

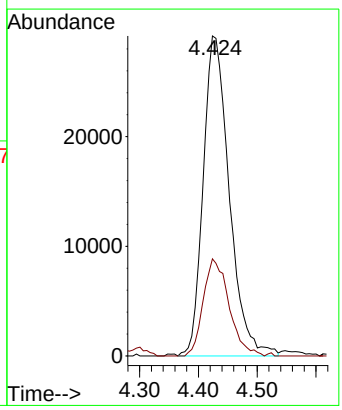
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

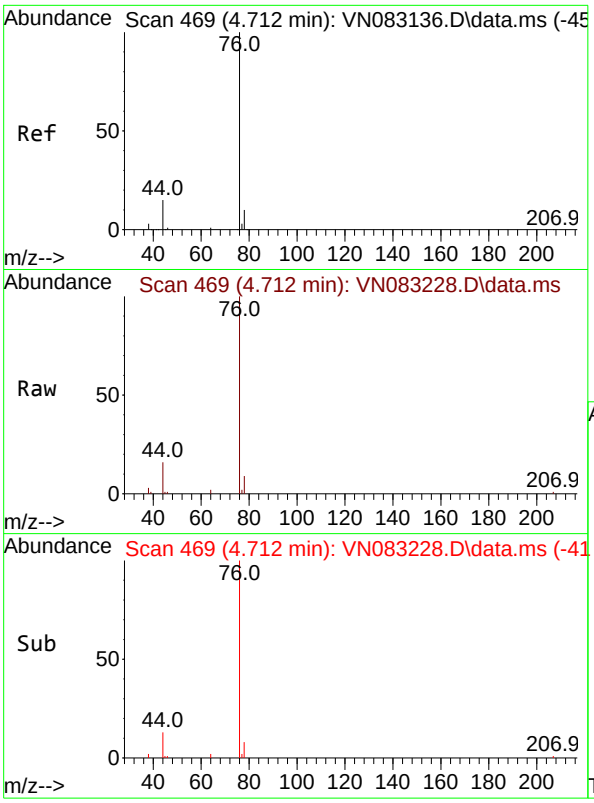


#16
Acetone
Concen: 83.759 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 43 Resp: 90085

Ion	Ratio	Lower	Upper
43	100		
58	30.4	21.8	32.6

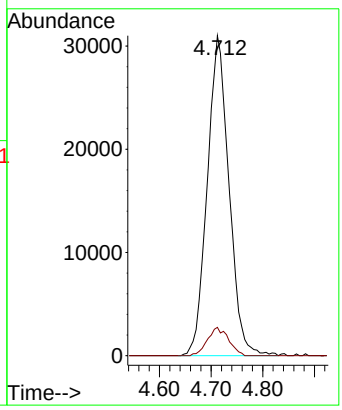




#17
Carbon Disulfide
Concen: 14.467 ug/l
RT: 4.712 min Scan# 4
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 76 Resp: 9061

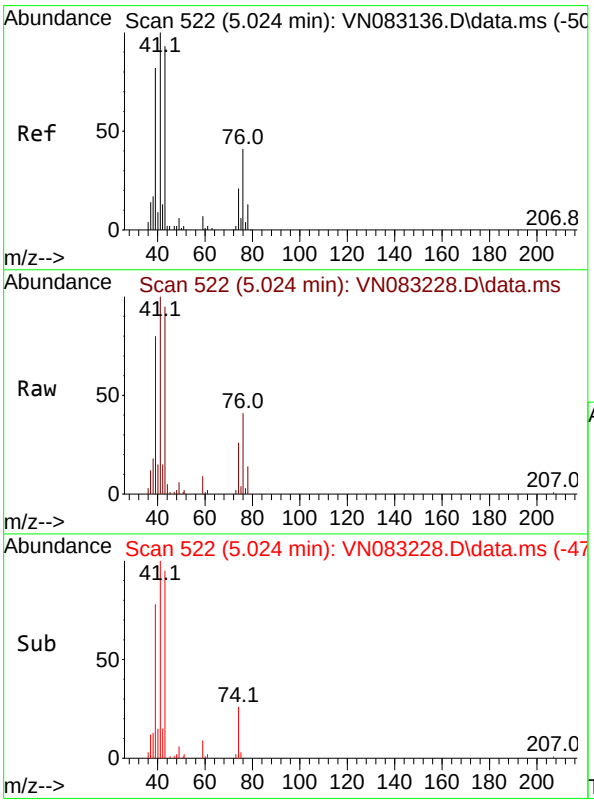
Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

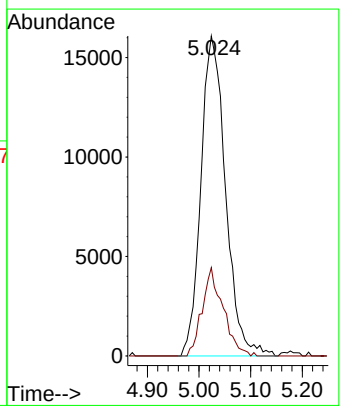
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

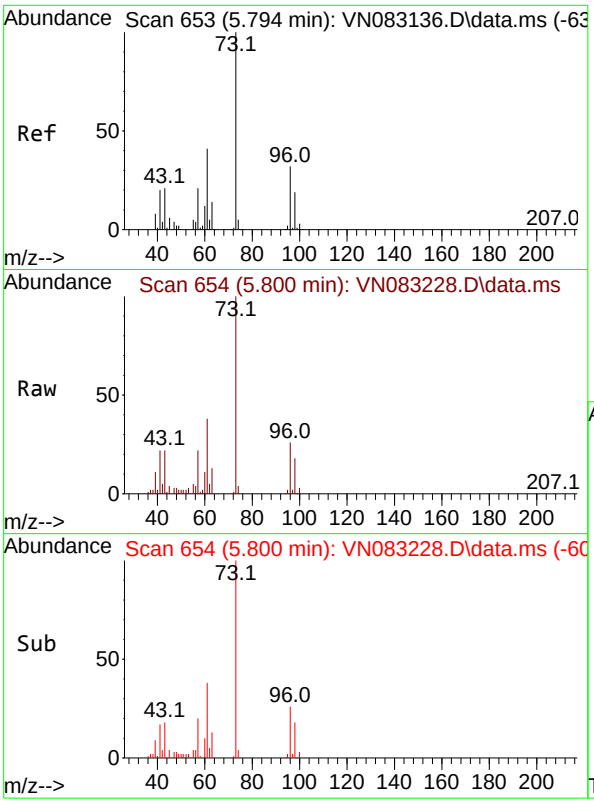


#18
Methyl Acetate
Concen: 16.637 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 43 Resp: 53312

Ion	Ratio	Lower	Upper
43	100		
74	23.5	16.3	24.5

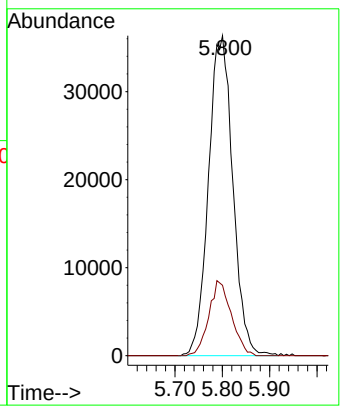




#19
Methyl tert-butyl Ether
Concen: 16.762 ug/l
RT: 5.800 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 73 Resp: 12951

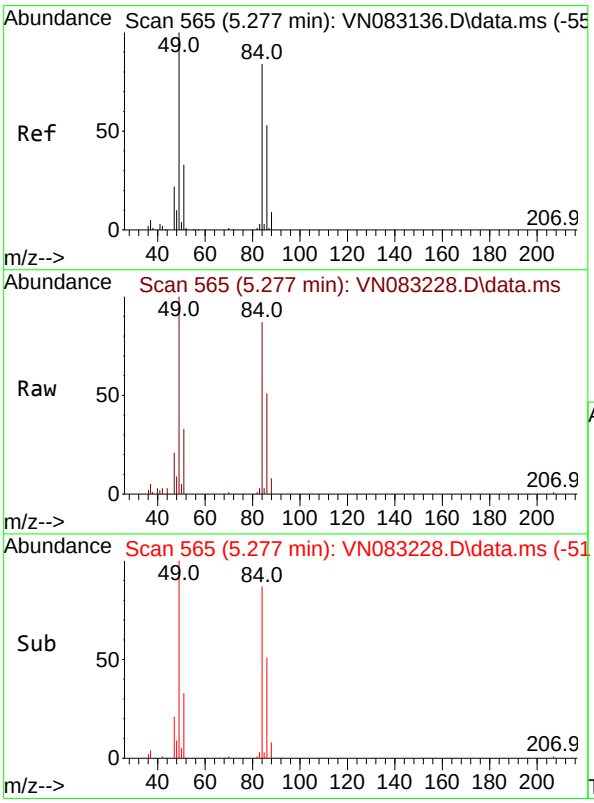
Ion	Ratio	Lower	Upper
73	100		
57	22.0	17.9	26.9



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

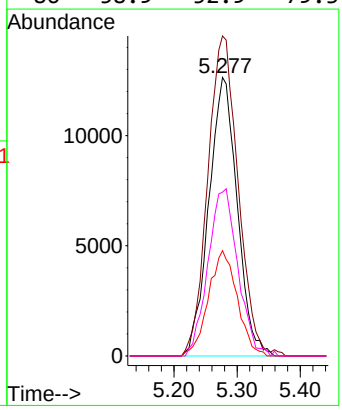
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

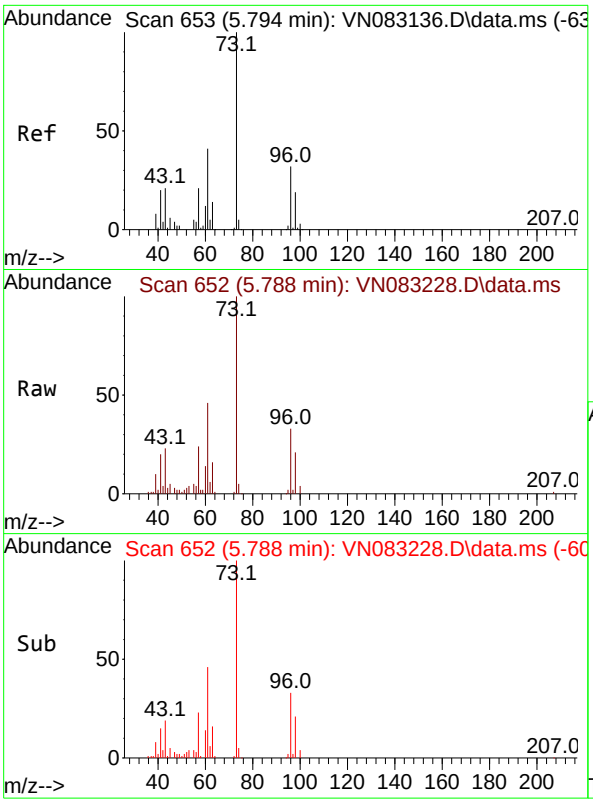


#20
Methylene Chloride
Concen: 15.936 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 84 Resp: 39445

Ion	Ratio	Lower	Upper
84	100		
49	114.9	119.6	179.4#
51	37.8	34.8	52.2
86	58.9	52.9	79.3

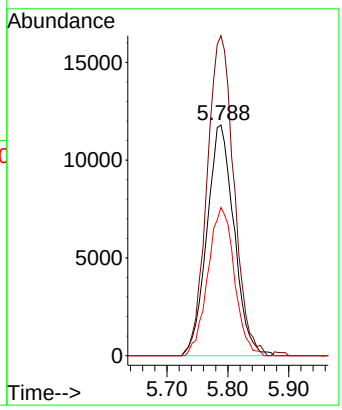




#21
trans-1,2-Dichloroethene
Concen: 16.473 ug/l
RT: 5.788 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 96 Resp: 3644

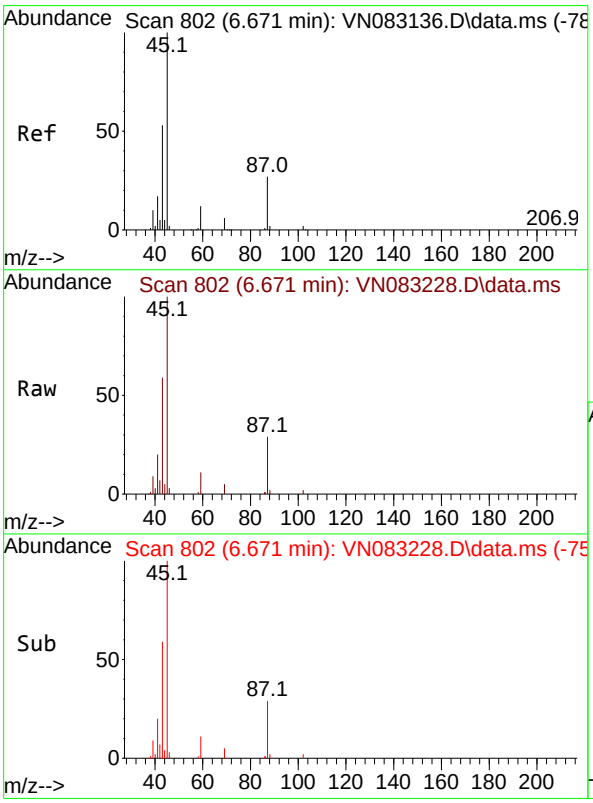
Ion	Ratio	Lower	Upper
96	100		
61	138.7	123.4	185.2
98	64.2	49.3	73.9



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

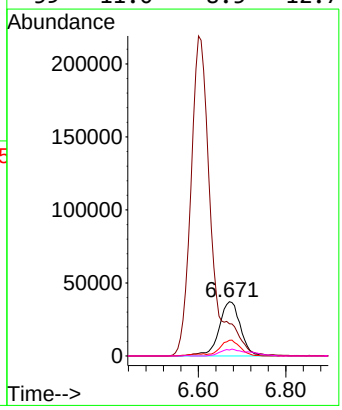
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

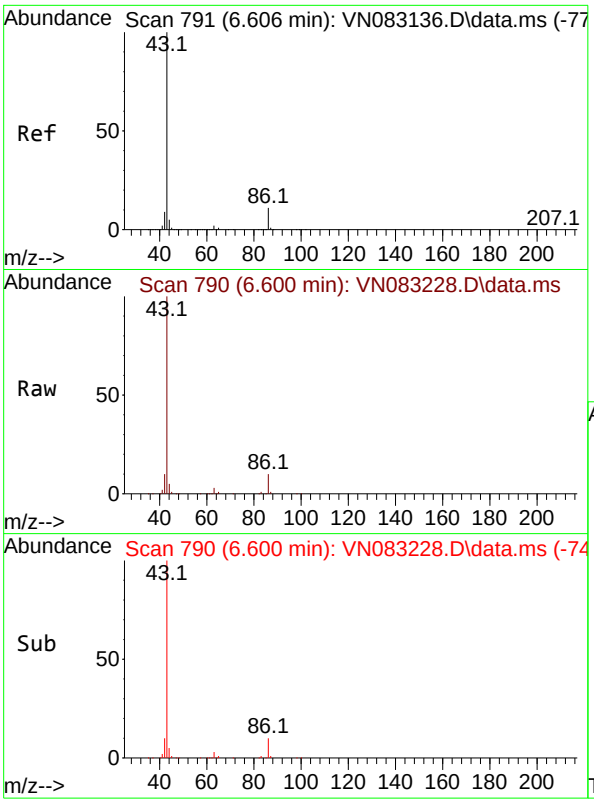


#22
Diisopropyl ether
Concen: 16.540 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 45 Resp: 125770

Ion	Ratio	Lower	Upper
45	100		
43	57.8	44.0	66.0
87	28.9	19.7	29.5
59	11.0	8.5	12.7

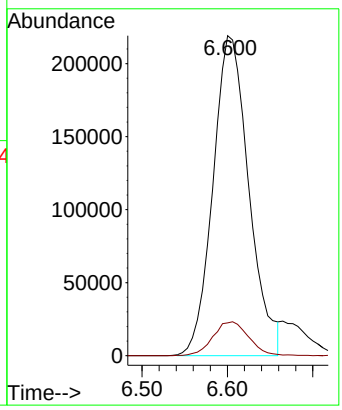




#23
Vinyl Acetate
Concen: 82.297 ug/l m
RT: 6.600 min Scan# 7
Delta R.T. -0.006 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 43 Resp: 64140

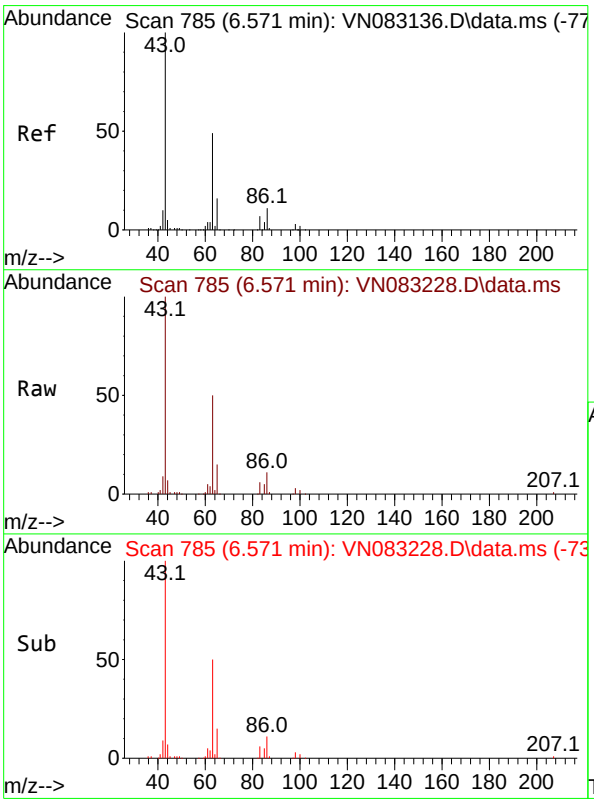
Ion	Ratio	Lower	Upper
43	100		
86	10.3	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

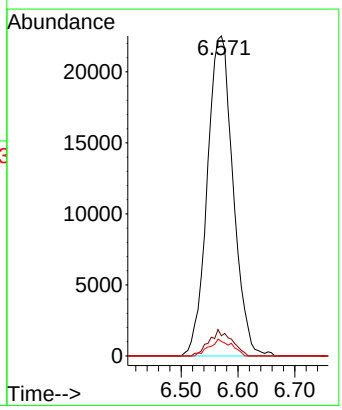
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

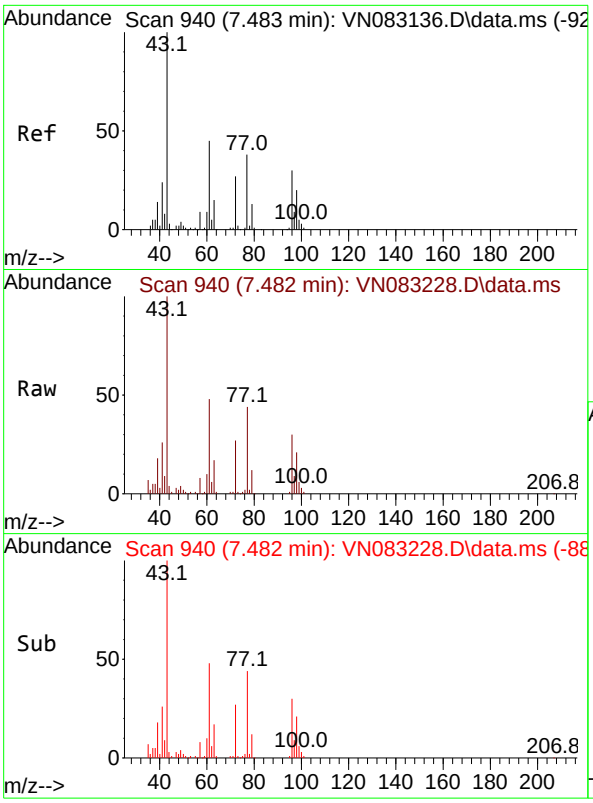


#24
1,1-Dichloroethane
Concen: 17.154 ug/l
RT: 6.571 min Scan# 785
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 63 Resp: 71096

Ion	Ratio	Lower	Upper
63	100		
98	6.3	3.3	9.9
100	4.5	2.0	6.0

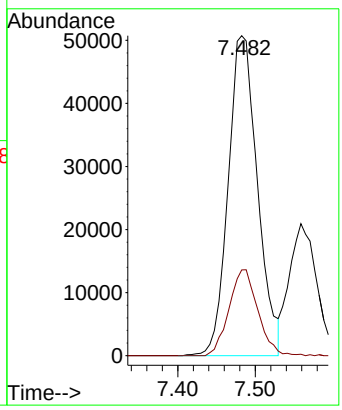




#25
2-Butanone
Concen: 81.002 ug/l
RT: 7.482 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 43 Resp: 133769

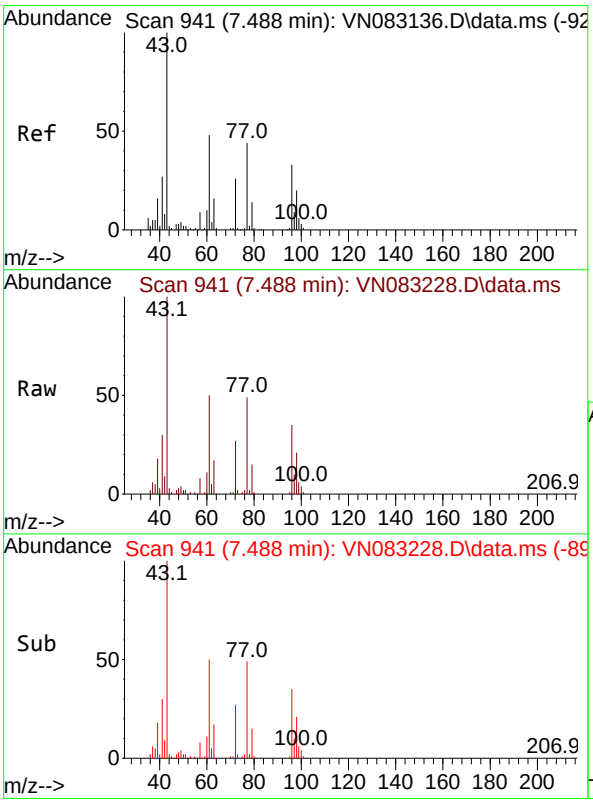
Ion	Ratio	Lower	Upper
43	100		
72	26.8	18.2	27.2



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations APPROVED

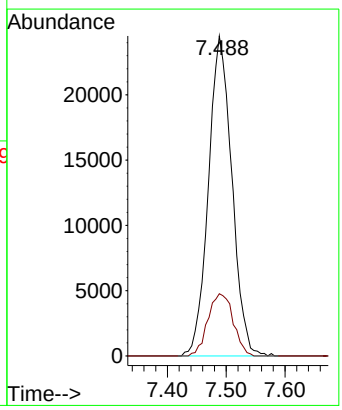
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

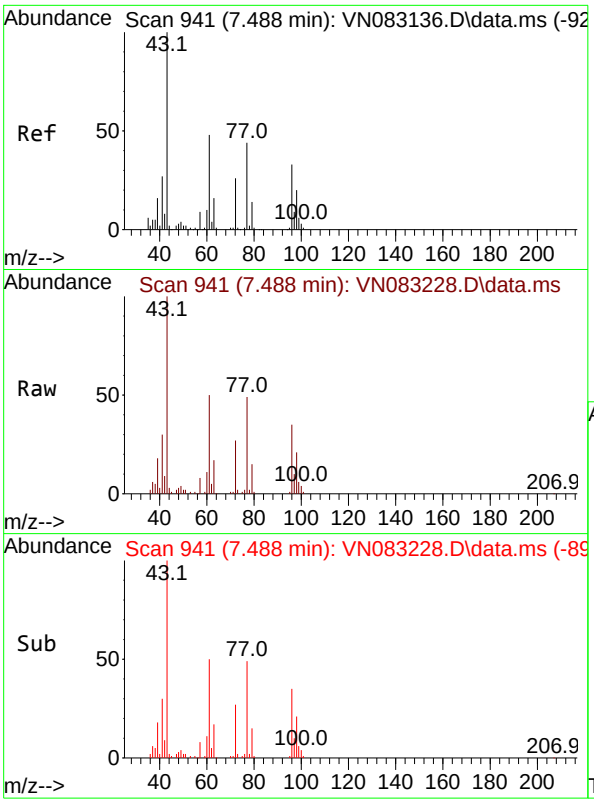


#26
2,2-Dichloropropane
Concen: 17.639 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 77 Resp: 67894

Ion	Ratio	Lower	Upper
77	100		
97	21.0	10.3	30.9





#27
cis-1,2-Dichloroethene
Concen: 16.468 ug/l
RT: 7.488 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

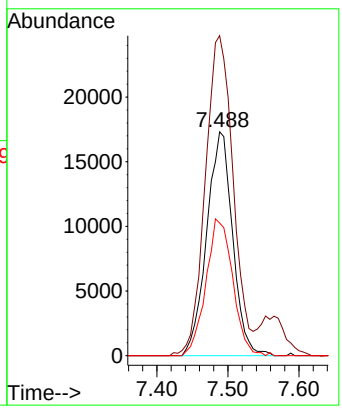
Tgt Ion: 96 Resp: 4396

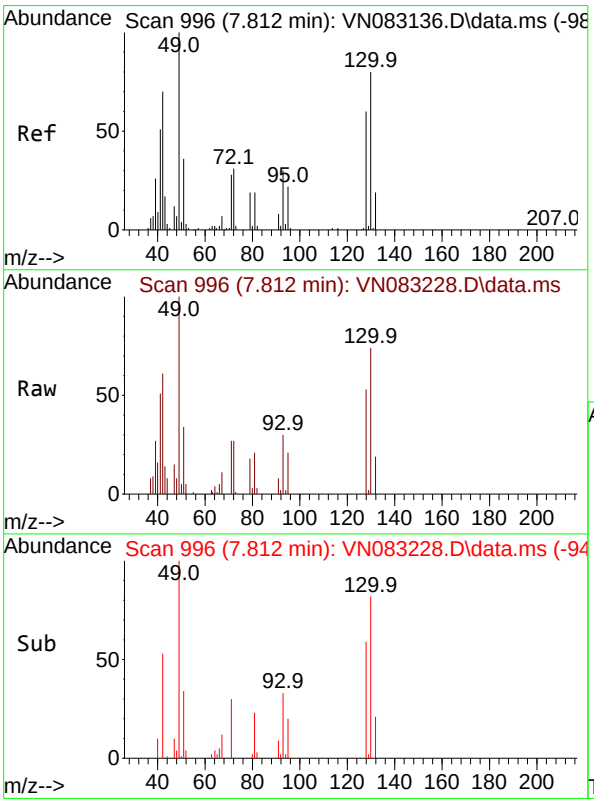
Ion	Ratio	Lower	Upper
96	100		
61	153.3	0.0	329.6
98	63.1	0.0	128.6

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

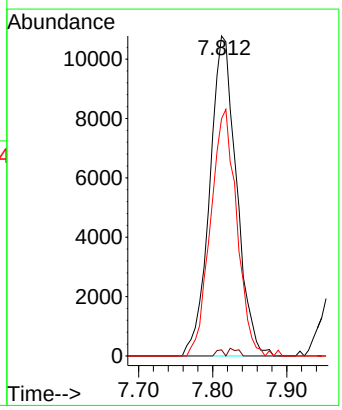


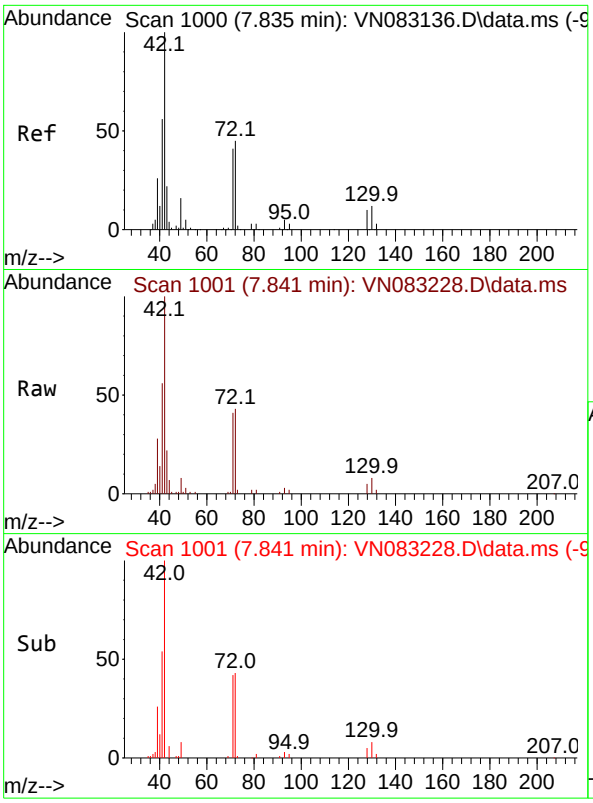


#28
Bromochloromethane
Concen: 15.970 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 49 Resp: 27049

Ion	Ratio	Lower	Upper
49	100		
129	0.5	0.0	3.8
130	0.0	50.5	75.7#

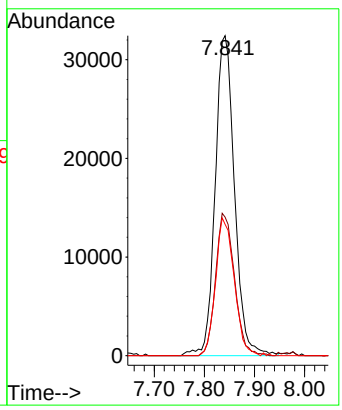




#29
Tetrahydrofuran
Concen: 81.321 ug/l
RT: 7.841 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 42 Resp: 8681

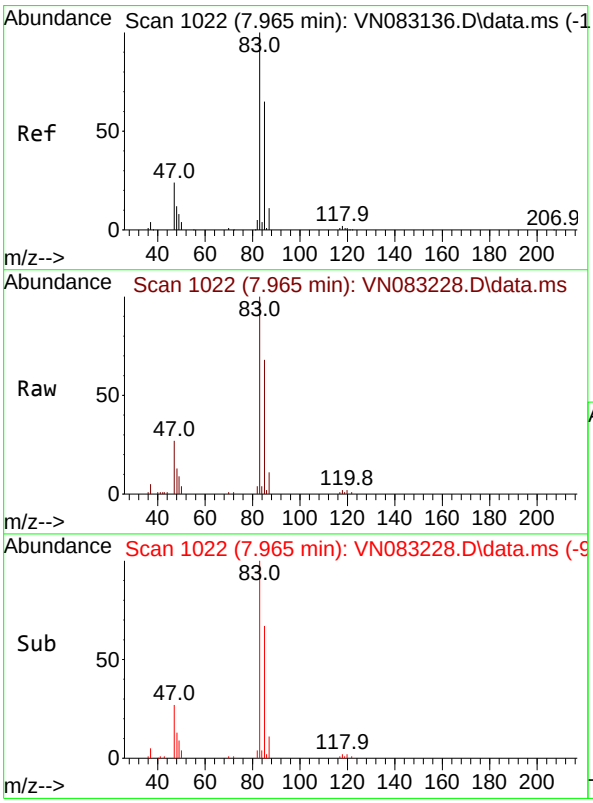
Ion	Ratio	Lower	Upper
42	100		
72	43.6	30.0	45.0
71	41.5	28.3	42.5



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

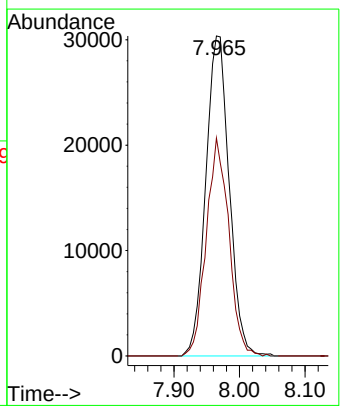
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

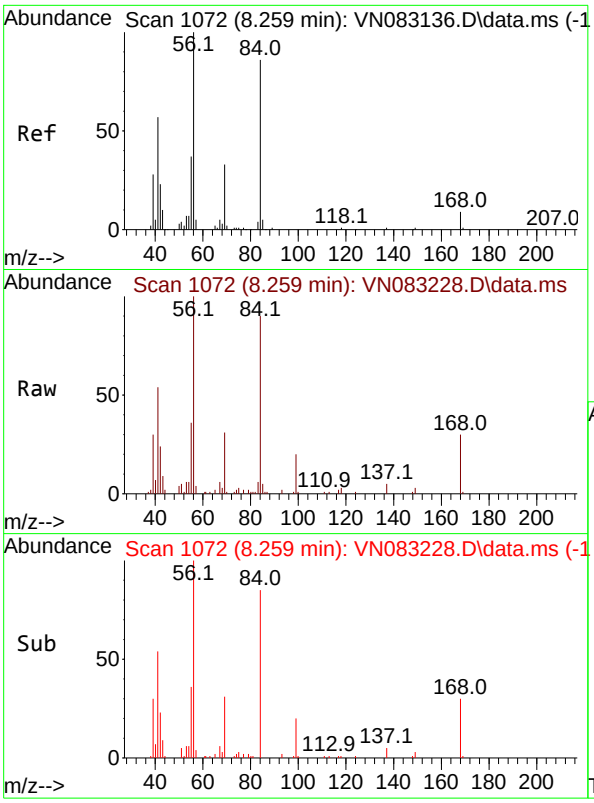


#30
Chloroform
Concen: 17.493 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 83 Resp: 75322

Ion	Ratio	Lower	Upper
83	100		
85	68.1	50.9	76.3

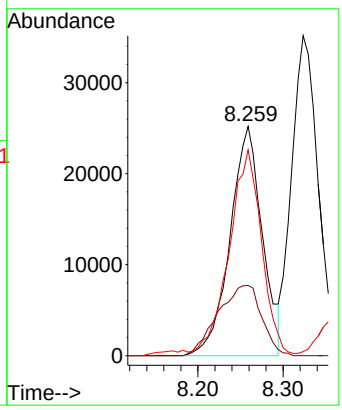




#31
Cyclohexane
Concen: 16.250 ug/l
RT: 8.259 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 56 Resp: 6619

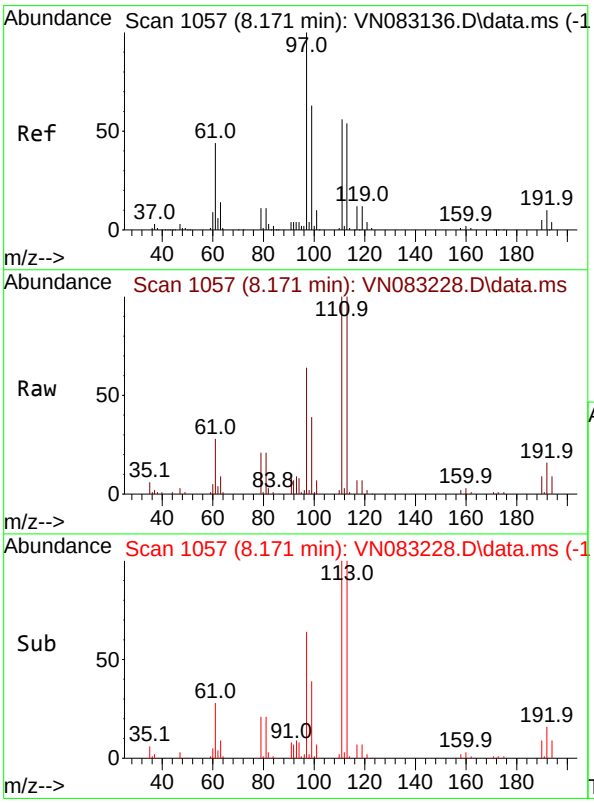
Ion	Ratio	Lower	Upper
56	100		
69	30.7	24.5	36.7
84	88.2	66.0	99.0



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

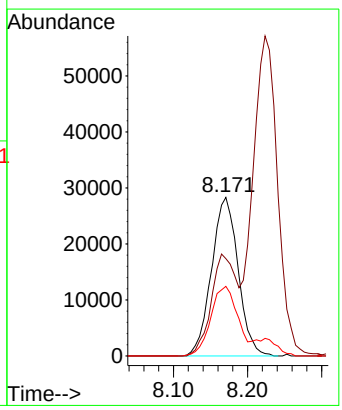
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

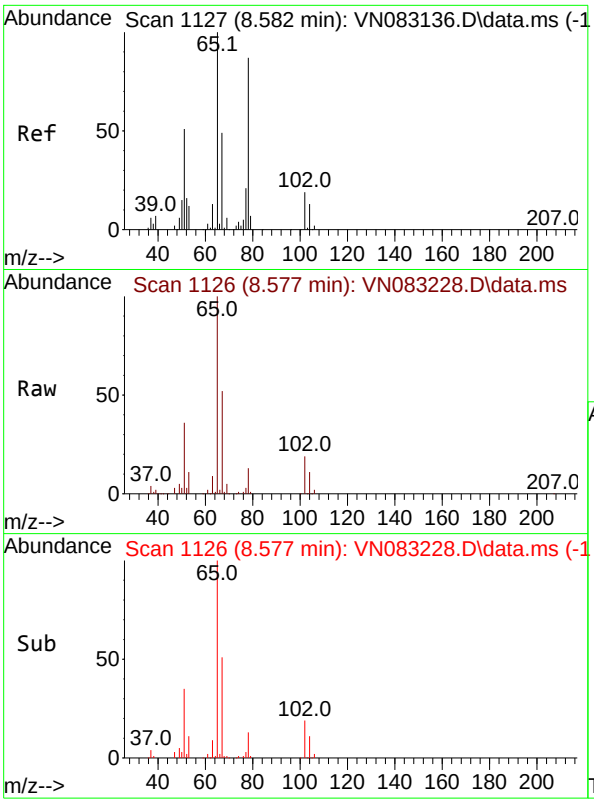


#32
1,1,1-Trichloroethane
Concen: 17.298 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 97 Resp: 70502

Ion	Ratio	Lower	Upper
97	100		
99	60.3	52.0	78.0
61	45.4	42.1	63.1

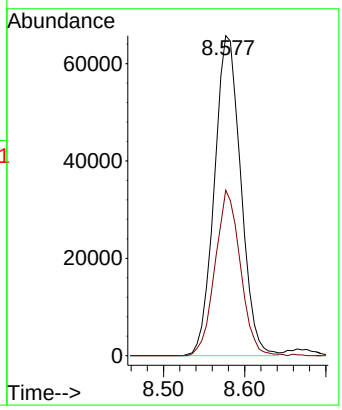




#33
1,2-Dichloroethane-d4
Concen: 54.074 ug/l
RT: 8.577 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 65 Resp: 14862

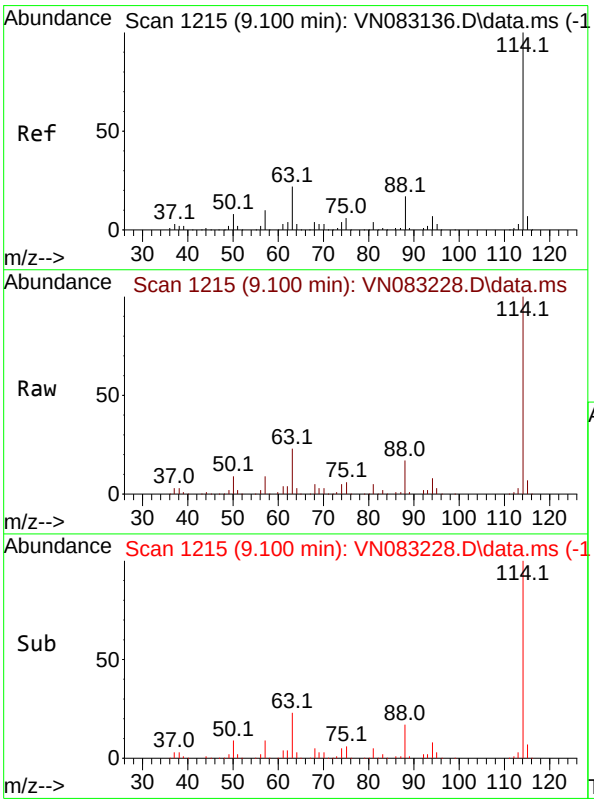
Ion	Ratio	Lower	Upper
65	100		
67	49.6	0.0	104.4



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations APPROVED

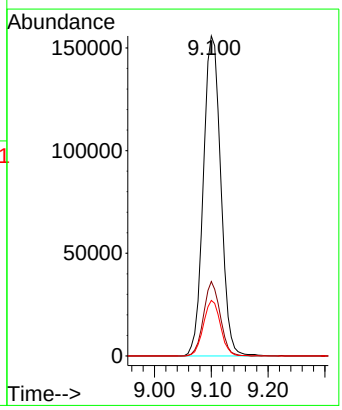
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

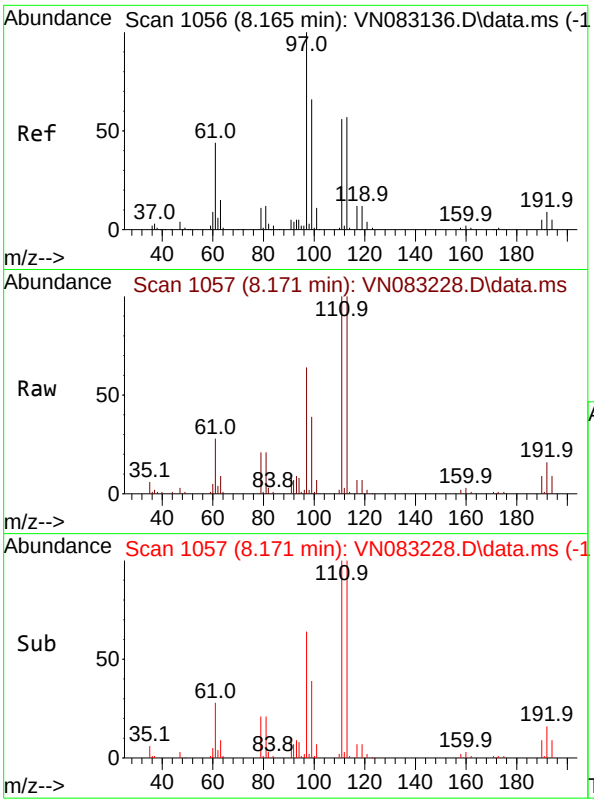


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion:114 Resp: 331101

Ion	Ratio	Lower	Upper
114	100		
63	23.2	0.0	44.6
88	17.3	0.0	31.4

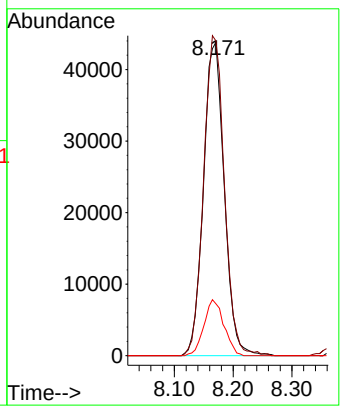




#35
Dibromofluoromethane
Concen: 52.068 ug/l
RT: 8.171 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion:113 Resp: 10760

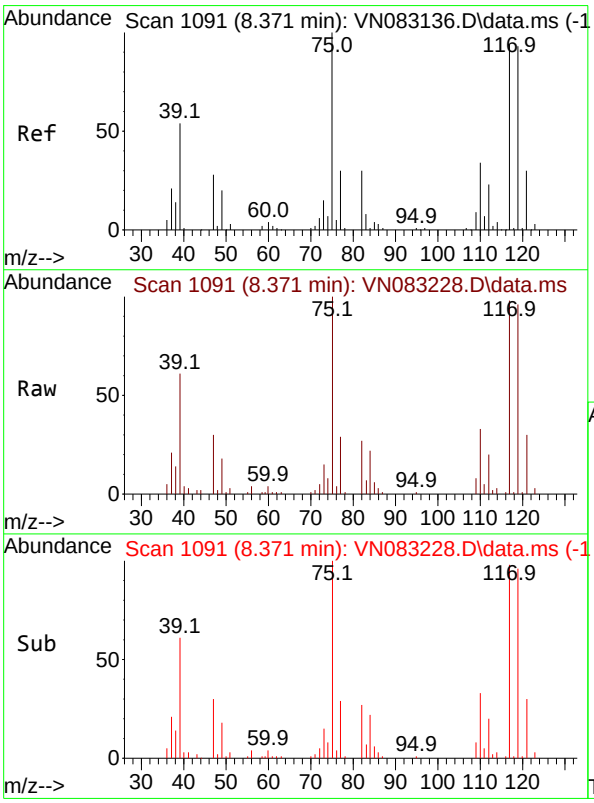
Ion	Ratio	Lower	Upper
113	100		
111	102.2	82.4	123.6
192	17.2	14.9	22.3



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

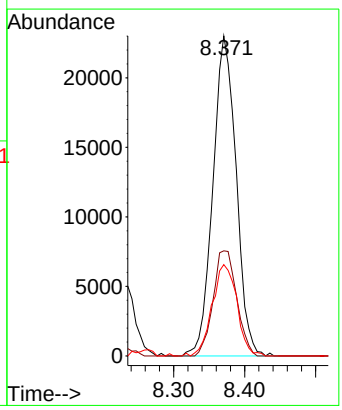
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

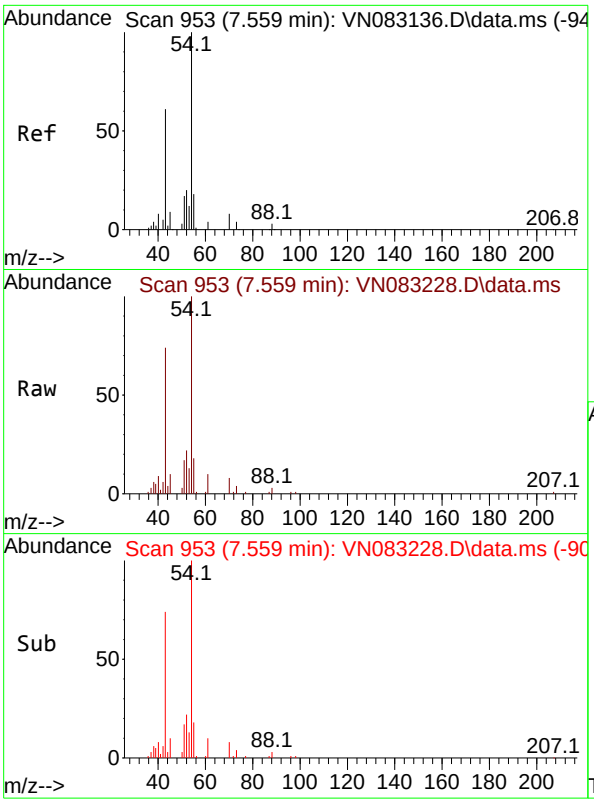


#36
1,1-Dichloropropene
Concen: 16.701 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 75 Resp: 52212

Ion	Ratio	Lower	Upper
75	100		
110	33.3	16.3	48.9
77	30.4	24.6	37.0





#37
Ethyl Acetate
Concen: 15.453 ug/l
RT: 7.559 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

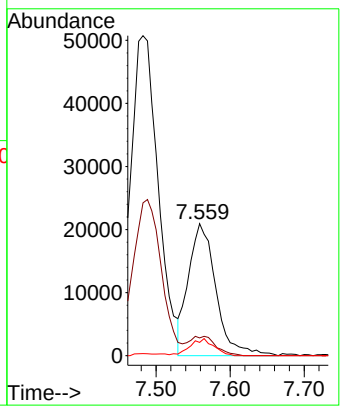
Tgt Ion: 43 Resp: 5409

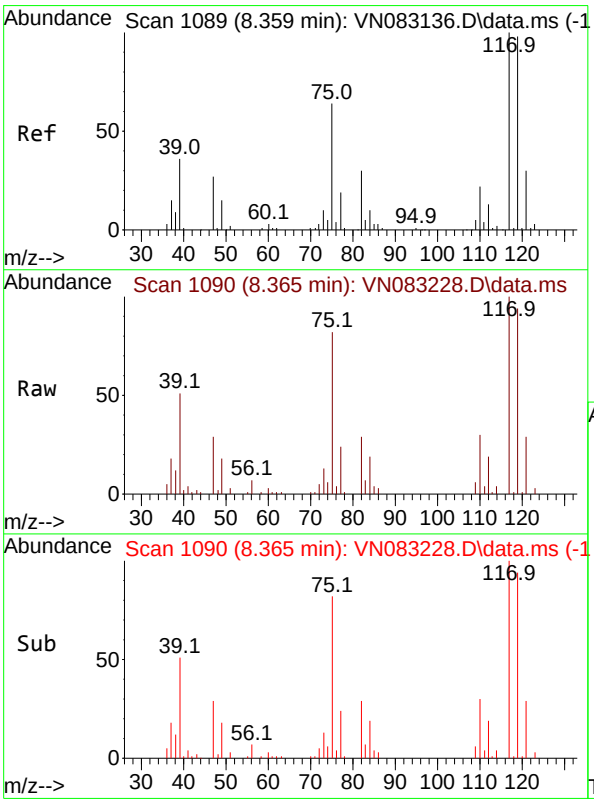
Ion	Ratio	Lower	Upper
43	100		
61	14.4	9.3	13.9#
70	11.1	7.0	10.6#

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

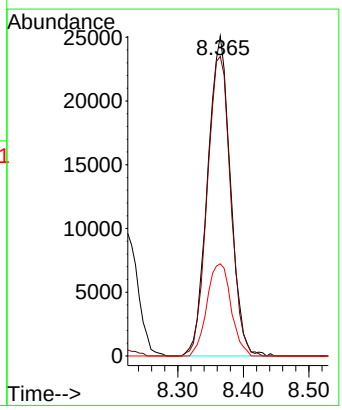


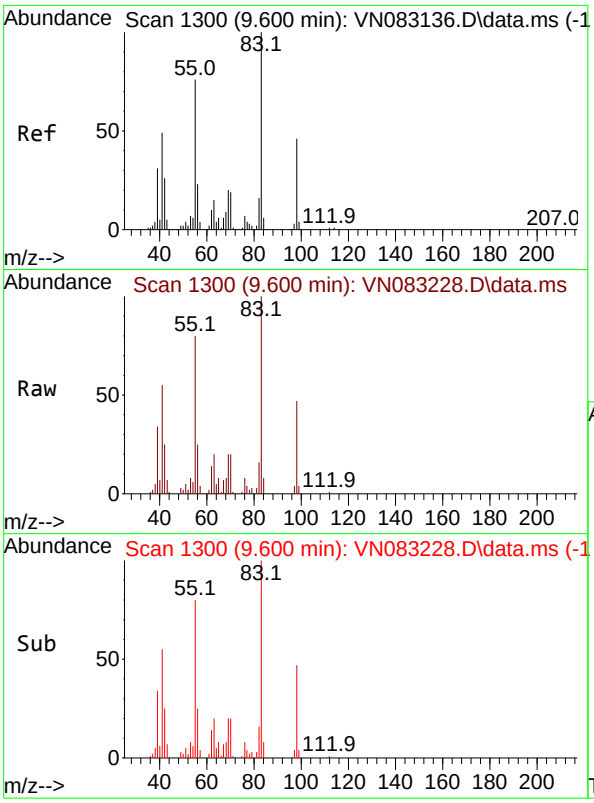


#38
Carbon Tetrachloride
Concen: 17.225 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.006 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion:117 Resp: 60652

Ion	Ratio	Lower	Upper
117	100		
119	93.6	74.9	112.3
121	28.8	24.3	36.5

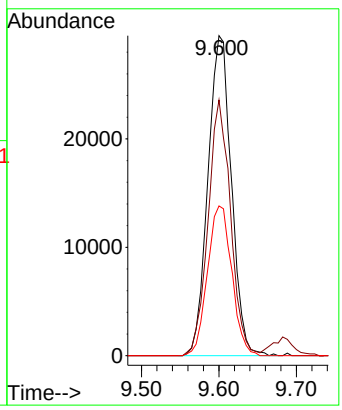




#39
Methylcyclohexane
Concen: 16.174 ug/l
RT: 9.600 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 83 Resp: 6210

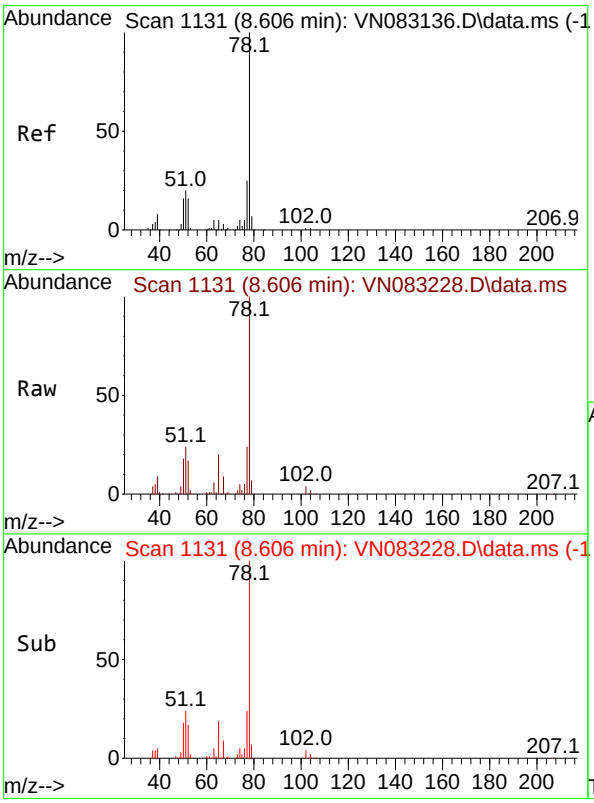
Ion	Ratio	Lower	Upper
83	100		
55	79.9	66.4	99.6
98	46.8	40.7	61.1



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations APPROVED

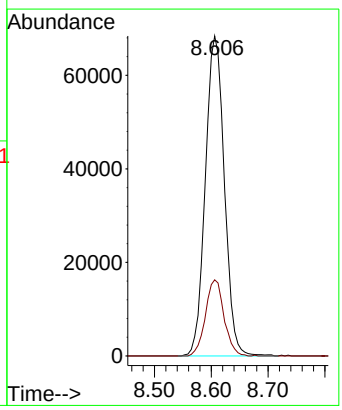
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

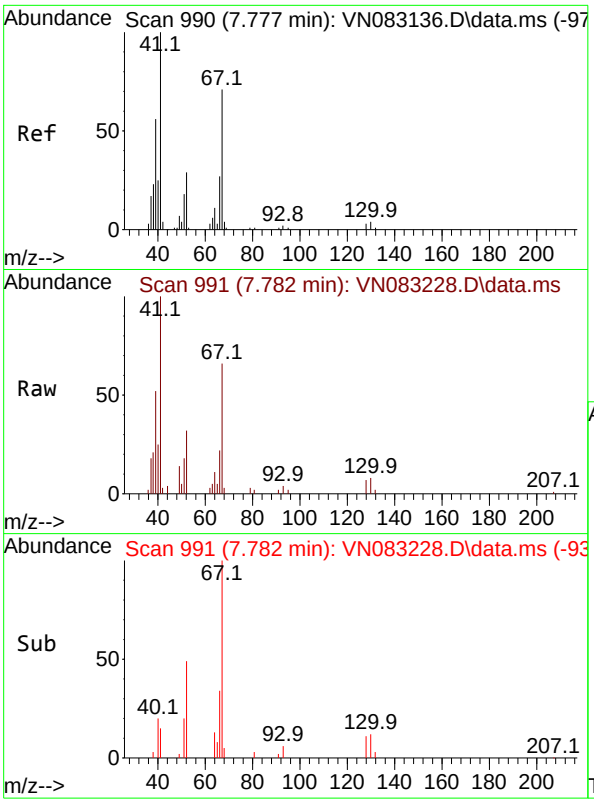


#40
Benzene
Concen: 17.052 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 78 Resp: 158813

Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.4

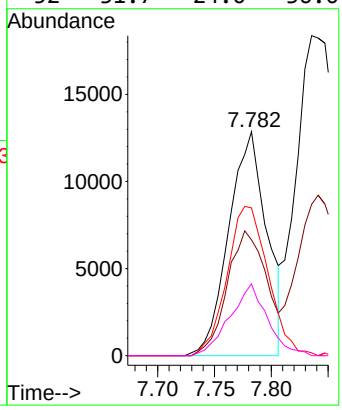




#41
Methacrylonitrile
Concen: 15.006 ug/l
RT: 7.782 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 41 Resp: 2986

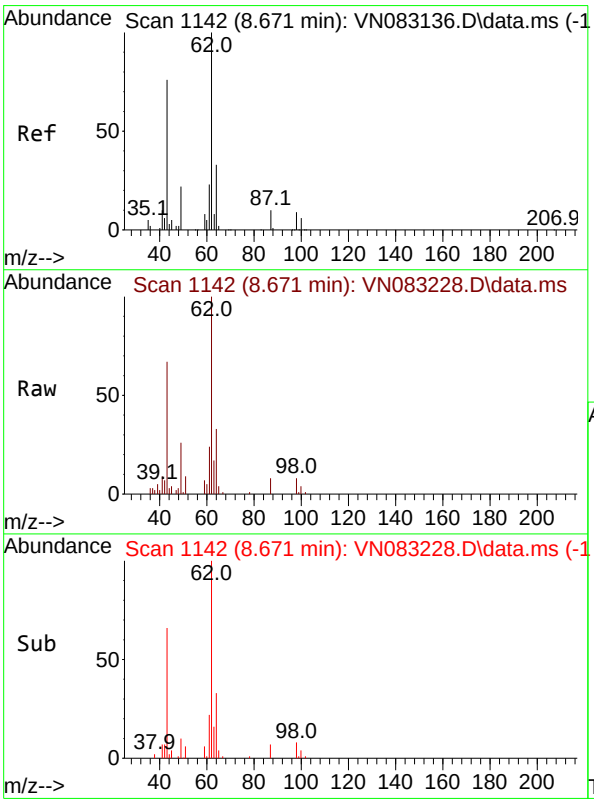
Ion	Ratio	Lower	Upper
41	100		
39	57.8	45.5	68.3
67	72.3	50.5	75.7
52	31.7	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

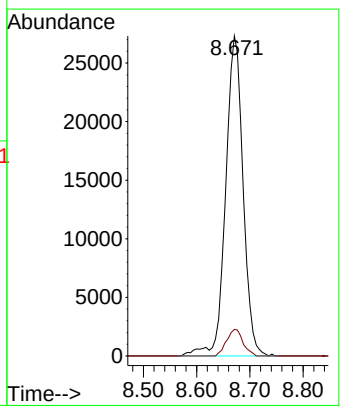
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

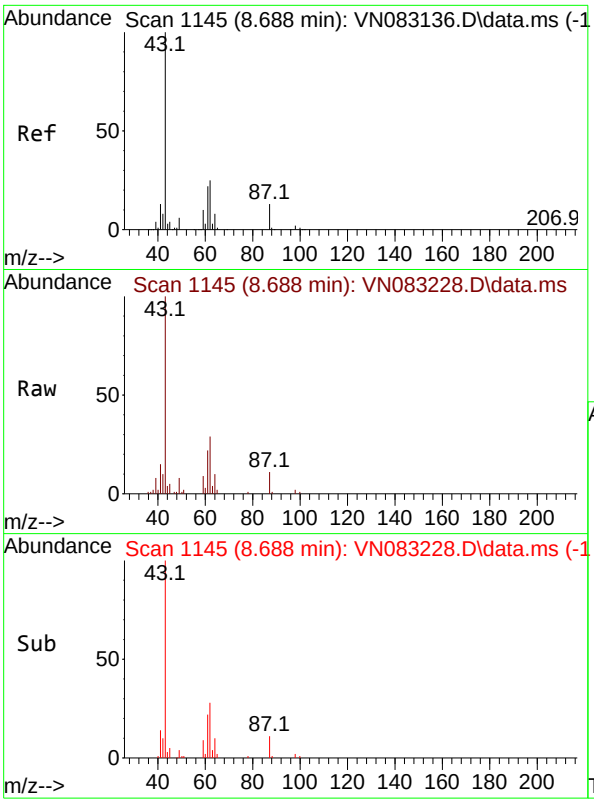


#42
1,2-Dichloroethane
Concen: 18.346 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 62 Resp: 62241

Ion	Ratio	Lower	Upper
62	100		
98	7.8	0.0	15.8

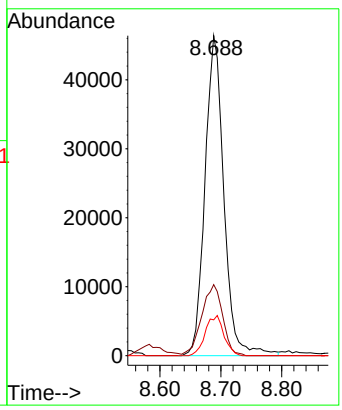




#43
Isopropyl Acetate
Concen: 14.996 ug/l
RT: 8.688 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 43 Resp: 10008

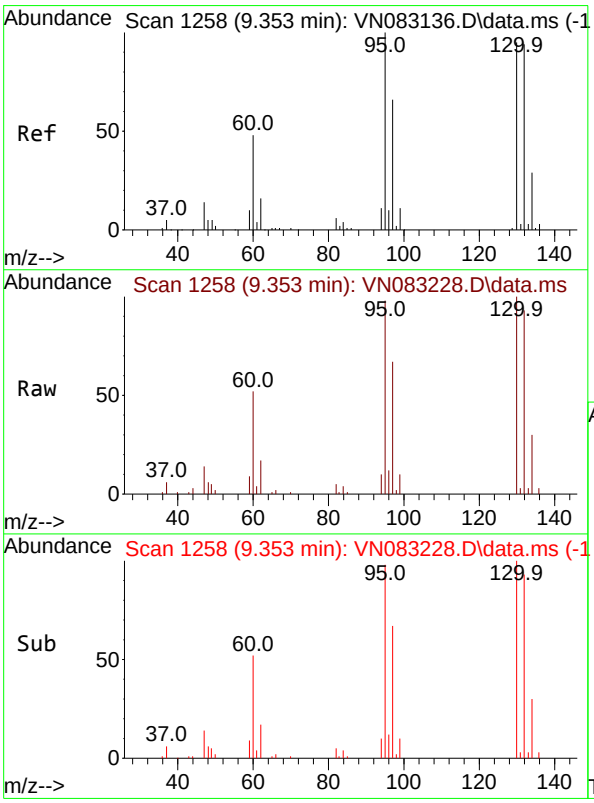
Ion	Ratio	Lower	Upper
43	100		
61	24.6	17.8	26.6
87	12.3	8.2	12.2



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

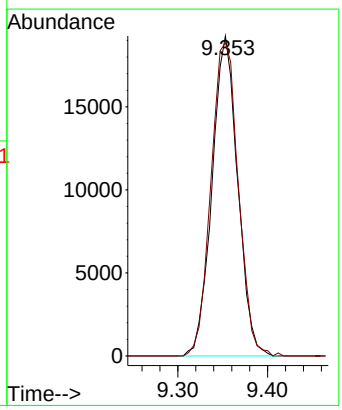
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

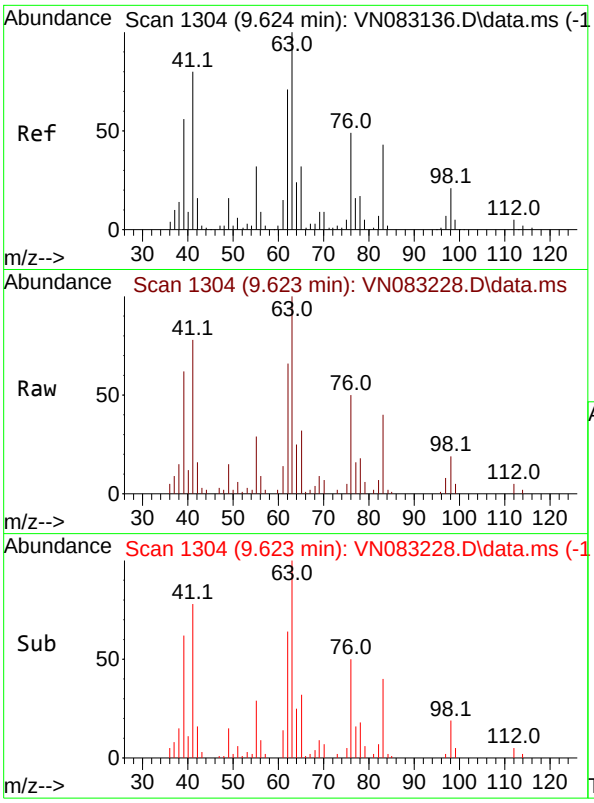


#44
Trichloroethene
Concen: 17.239 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion:130 Resp: 38215

Ion	Ratio	Lower	Upper
130	100		
95	97.9	0.0	197.8

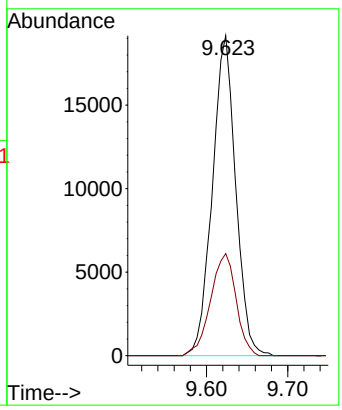




#45
1,2-Dichloropropane
Concen: 17.297 ug/l
RT: 9.623 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 63 Resp: 3823

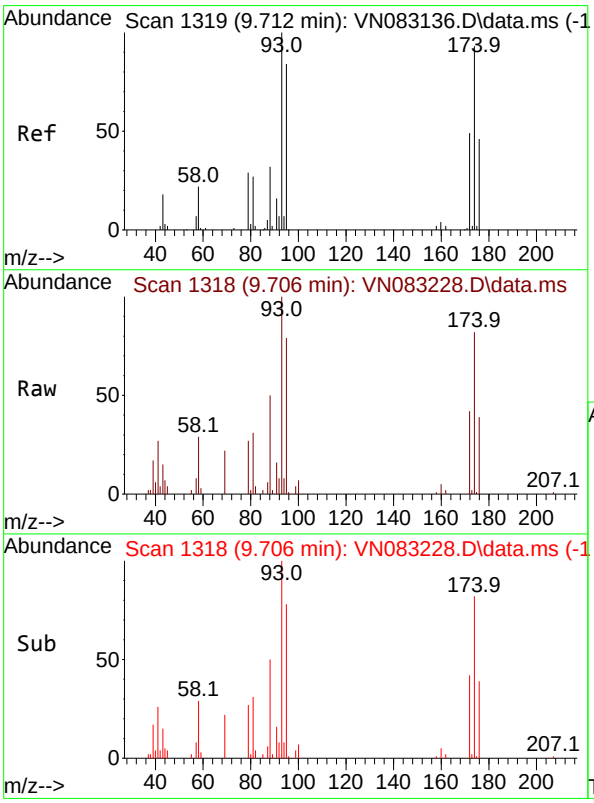
Ion	Ratio	Lower	Upper
63	100		
65	31.9	24.4	36.6



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

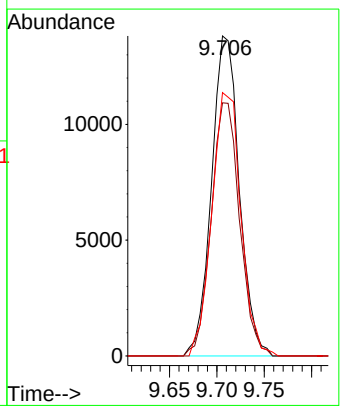
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

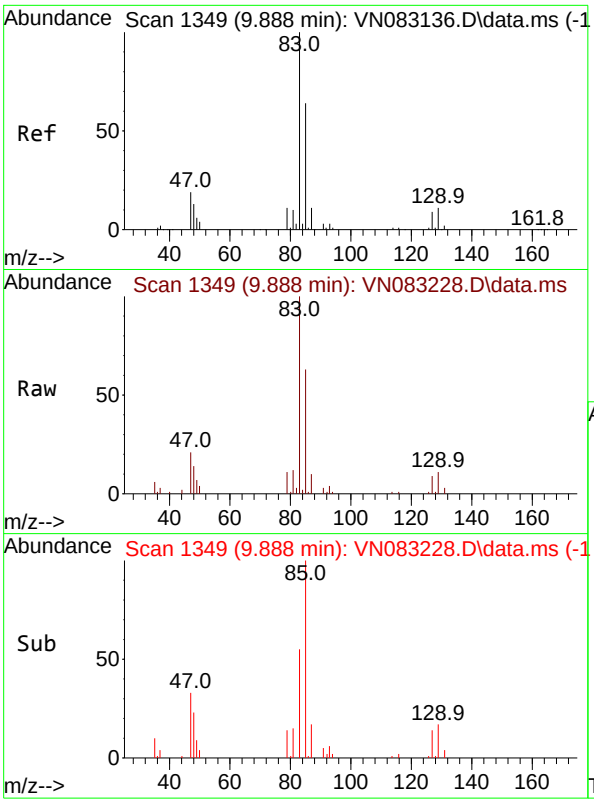


#46
Dibromomethane
Concen: 17.814 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.006 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 93 Resp: 28189

Ion	Ratio	Lower	Upper
93	100		
95	81.0	65.8	98.6
174	86.0	71.7	107.5

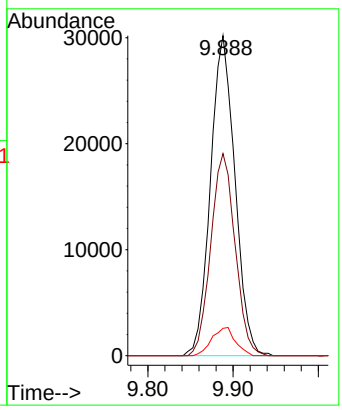




#47
Bromodichloromethane
Concen: 16.923 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 83 Resp: 6012

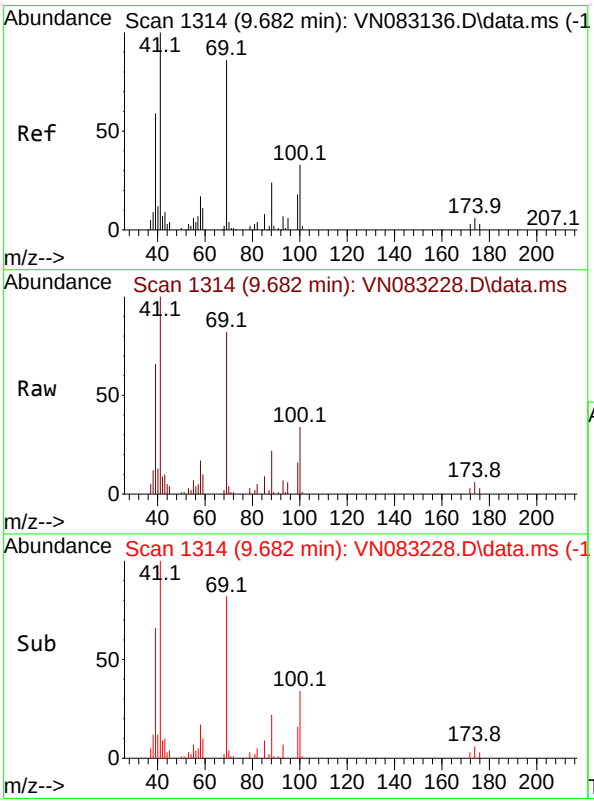
Ion	Ratio	Lower	Upper
83	100		
85	63.2	51.1	76.7
127	8.6	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

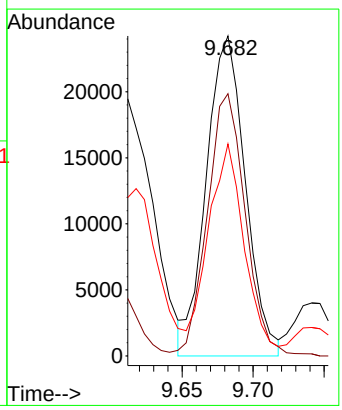
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

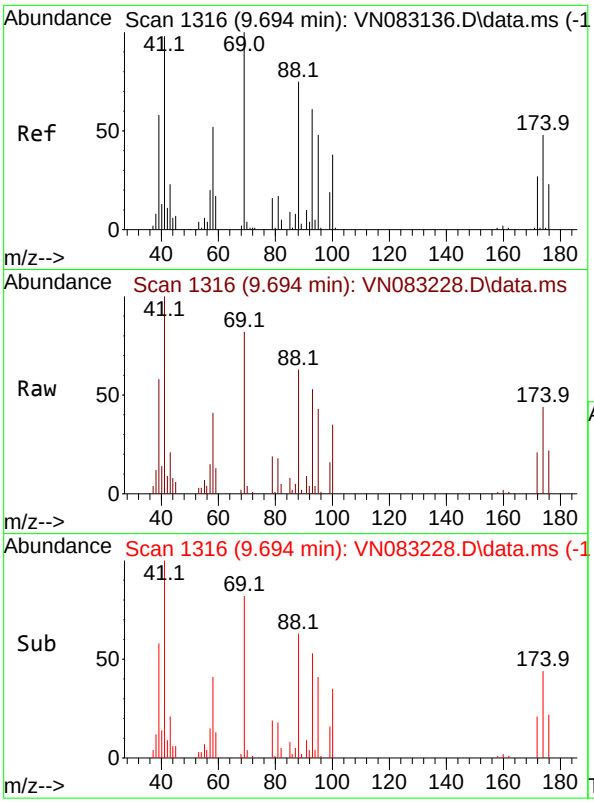


#48
Methyl methacrylate
Concen: 16.014 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 41 Resp: 46342

Ion	Ratio	Lower	Upper
41	100		
69	79.9	56.3	84.5
39	61.5	50.3	75.5

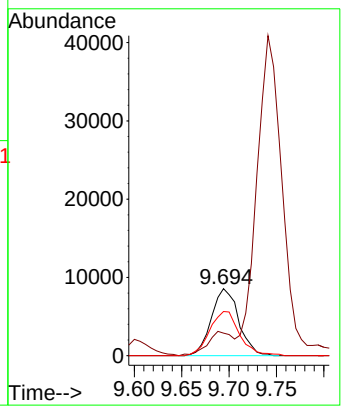




#49
1,4-Dioxane
Concen: 329.576 ug/l
RT: 9.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 88 Resp: 1720

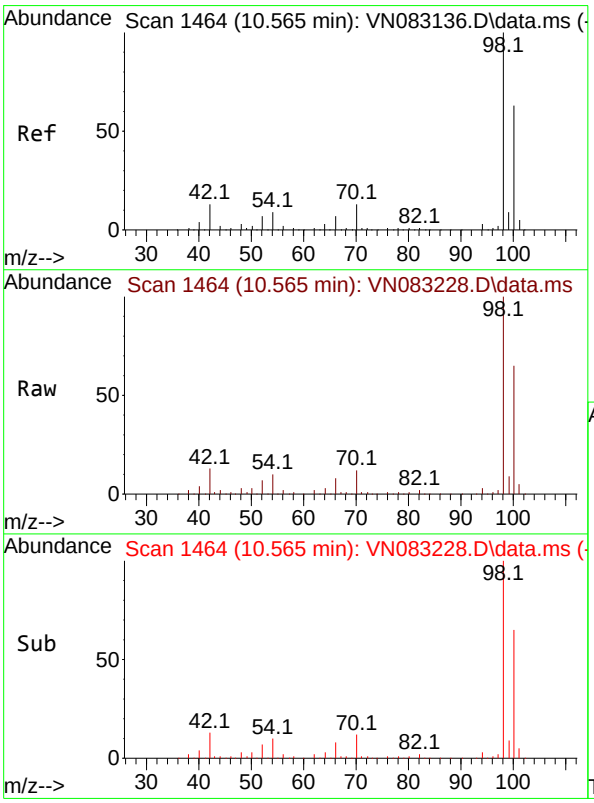
Ion	Ratio	Lower	Upper
88	100		
43	33.1	27.8	41.8
58	72.1	59.4	89.0



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

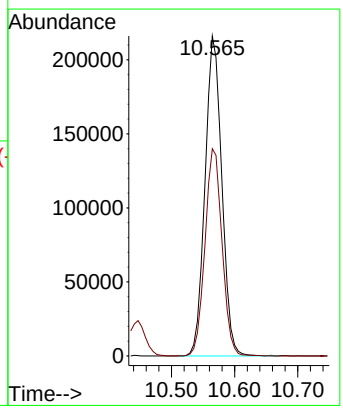
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

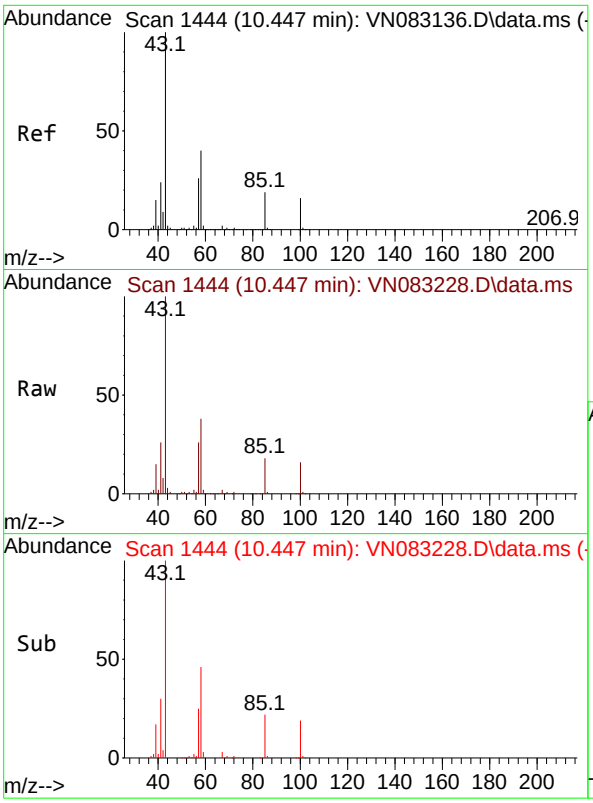


#50
Toluene-d8
Concen: 51.874 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 98 Resp: 399905

Ion	Ratio	Lower	Upper
98	100		
100	65.8	51.5	77.3

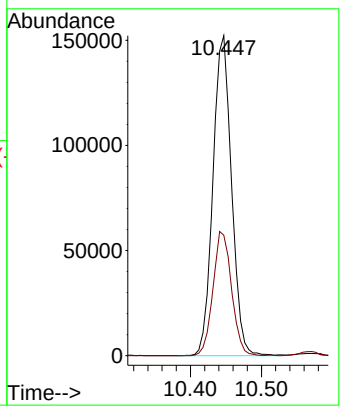




#51
4-Methyl-2-Pentanone
Concen: 83.465 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 43 Resp: 27627

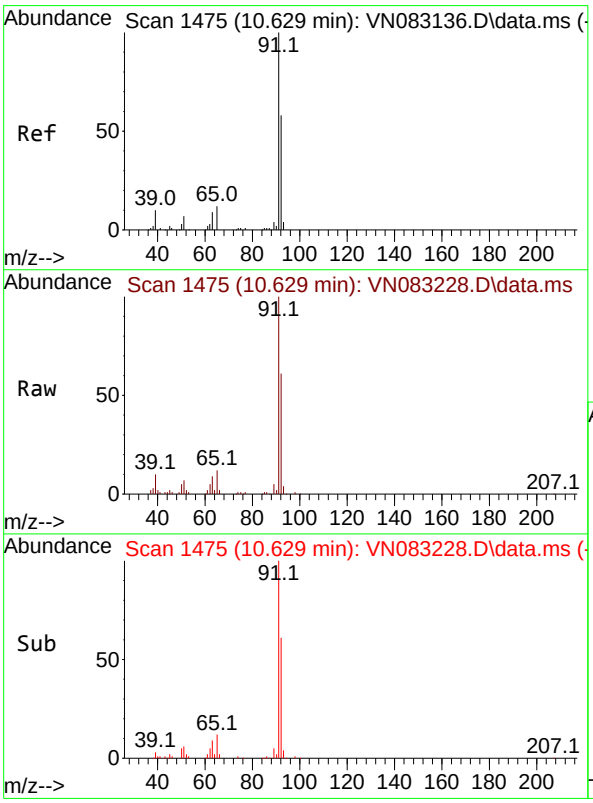
Ion	Ratio	Lower	Upper
43	100		
58	38.8	28.2	42.4



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

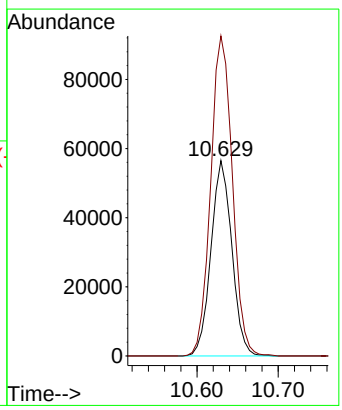
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

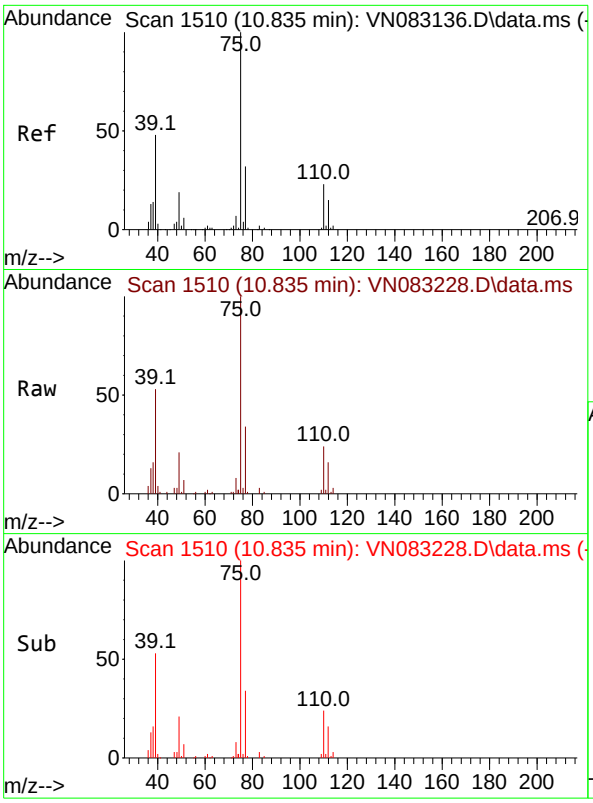


#52
Toluene
Concen: 17.156 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 92 Resp: 100952

Ion	Ratio	Lower	Upper
92	100		
91	170.4	139.4	209.0





#53
t-1,3-Dichloropropene
Concen: 16.995 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

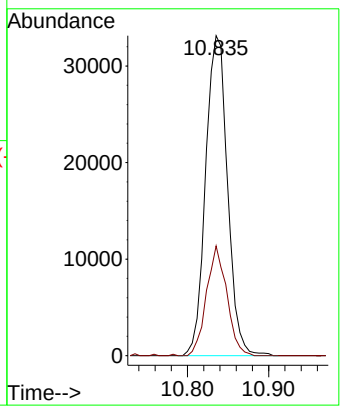
Tgt Ion: 75 Resp: 6202

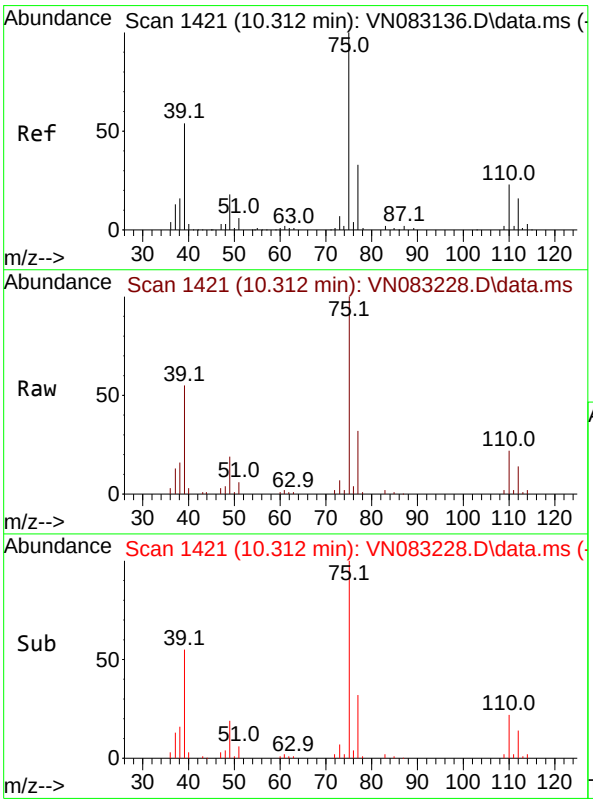
Ion	Ratio	Lower	Upper
75	100		
77	34.3	25.7	38.5

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

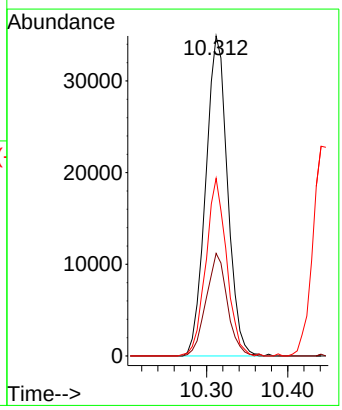


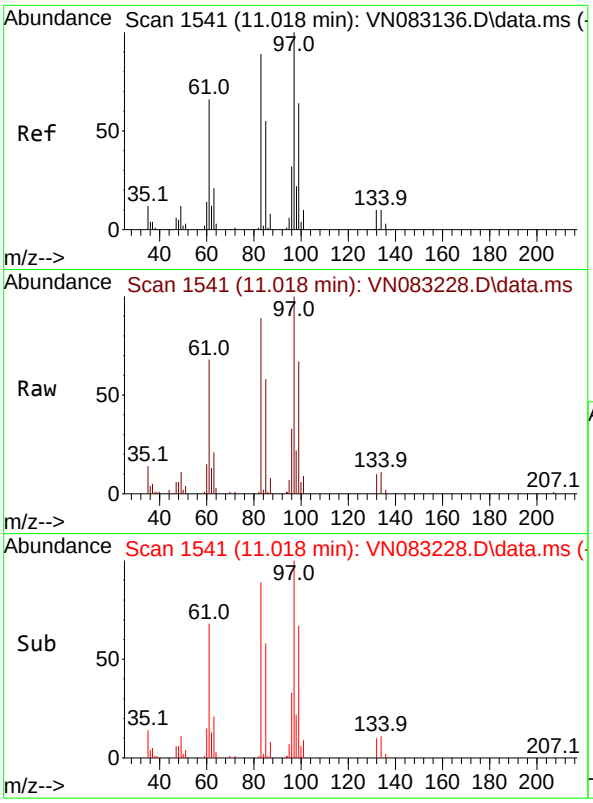


#54
cis-1,3-Dichloropropene
Concen: 16.792 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 75 Resp: 65184

Ion	Ratio	Lower	Upper
75	100		
77	32.1	24.3	36.5
39	55.5	50.5	75.7

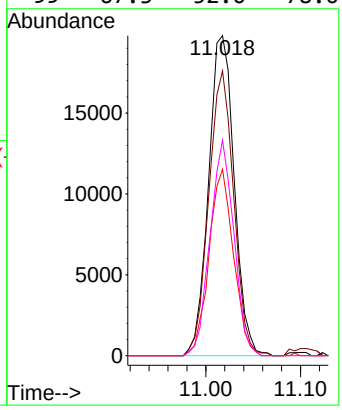




#55
1,1,2-Trichloroethane
Concen: 17.644 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 97 Resp: 3720

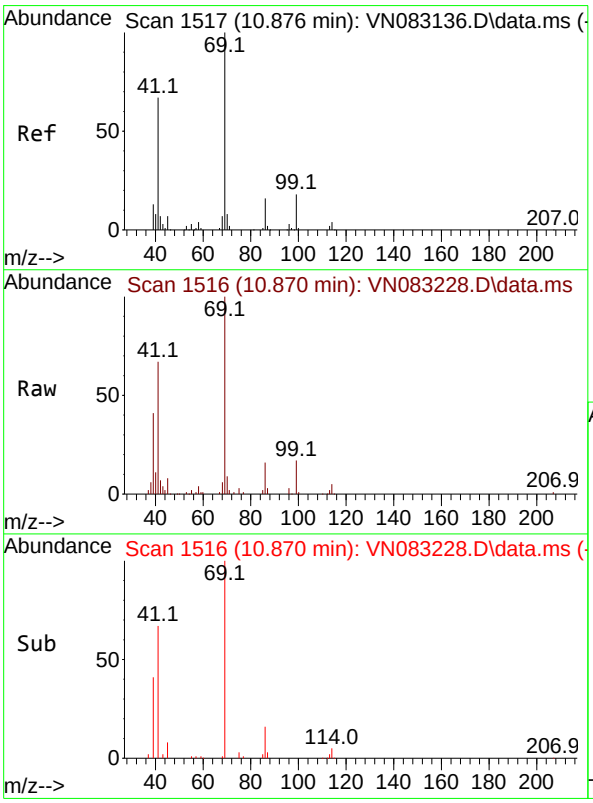
Ion	Ratio	Lower	Upper
97	100		
83	89.0	71.4	107.0
85	58.3	45.8	68.6
99	67.3	52.0	78.0



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

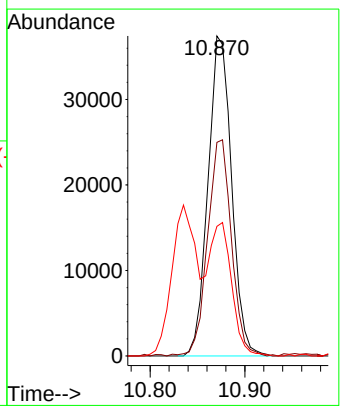
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

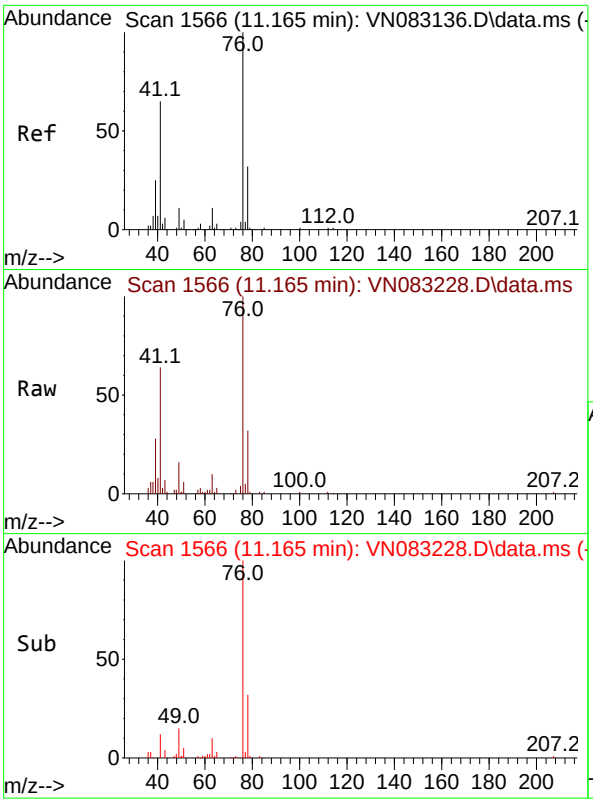


#56
Ethyl methacrylate
Concen: 16.269 ug/l
RT: 10.870 min Scan# 1516
Delta R.T. -0.006 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 69 Resp: 64678

Ion	Ratio	Lower	Upper
69	100		
41	68.3	63.4	95.2
39	36.9	37.4	56.0#





#57
1,3-Dichloropropane
Concen: 17.307 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

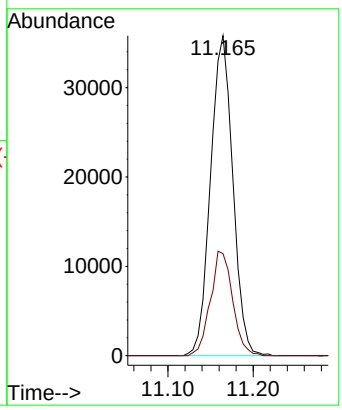
Tgt Ion: 76 Resp: 6505

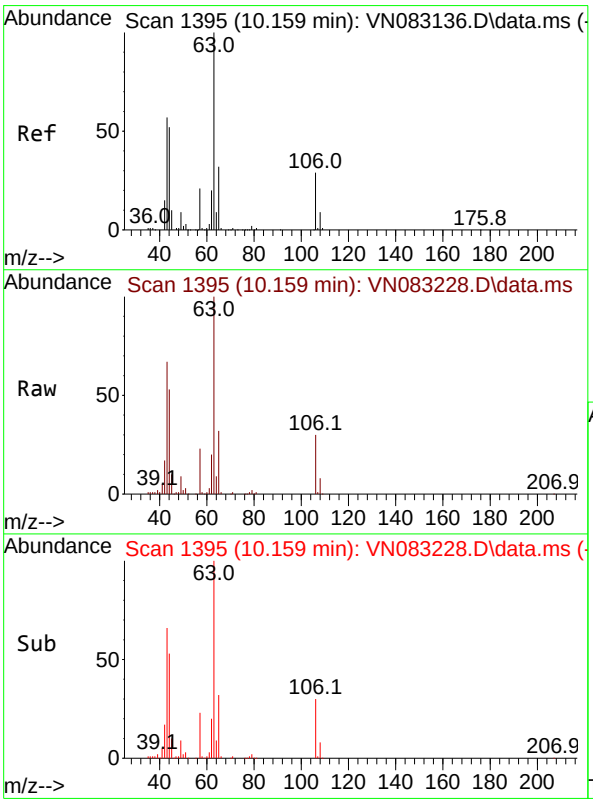
Ion	Ratio	Lower	Upper
76	100		
78	32.5	25.6	38.4

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

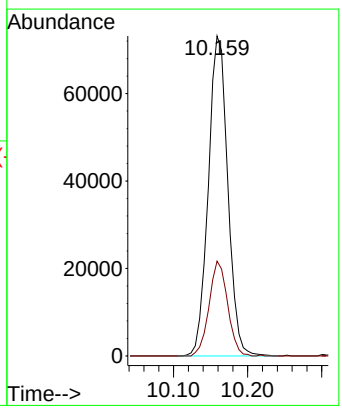


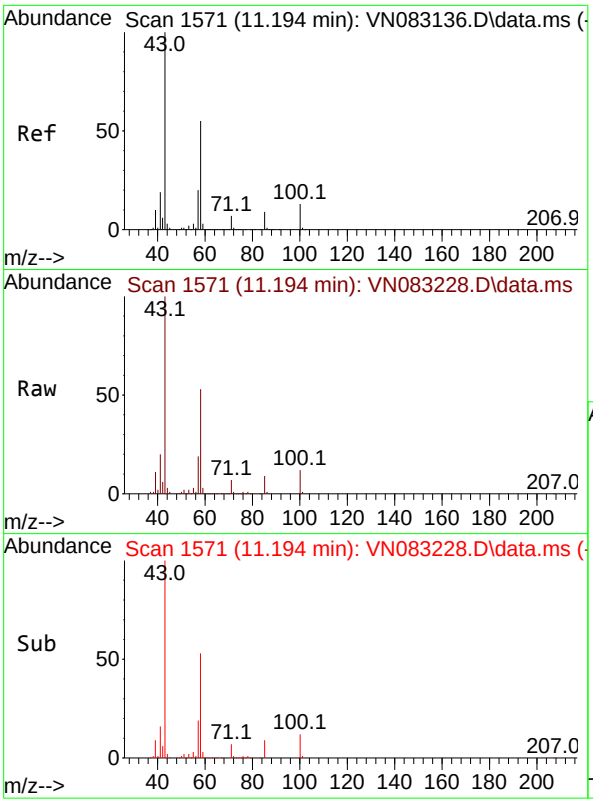


#58
2-Chloroethyl Vinyl ether
Concen: 79.420 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 63 Resp: 133461

Ion	Ratio	Lower	Upper
63	100		
106	28.2	21.4	32.0





#59
2-Hexanone
Concen: 81.340 ug/l
RT: 11.194 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

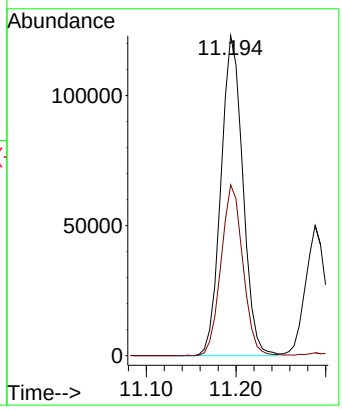
Tgt Ion: 43 Resp: 20829

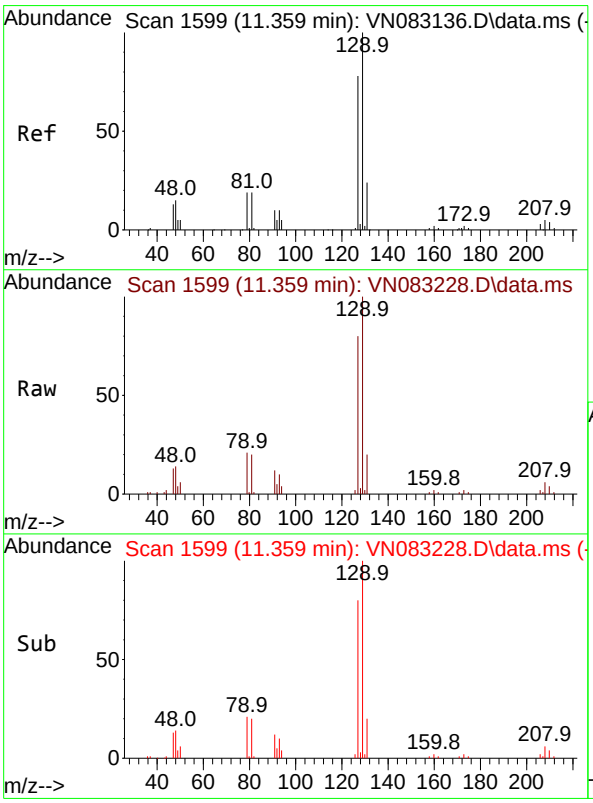
Ion	Ratio	Lower	Upper
43	100		
58	53.4	24.6	73.8

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

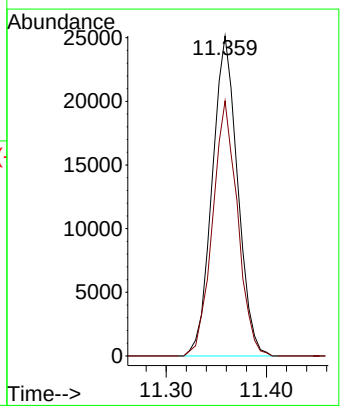


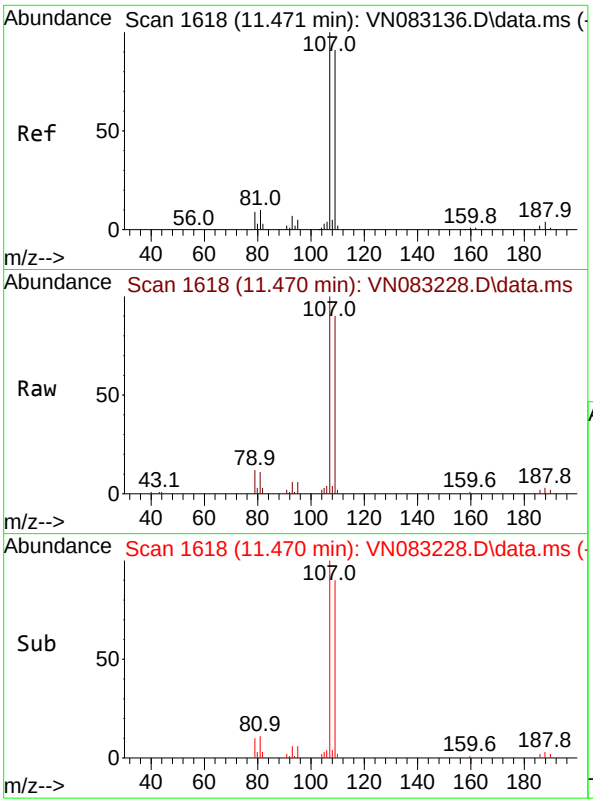


#60
Dibromochloromethane
Concen: 17.334 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion:129 Resp: 44195

Ion	Ratio	Lower	Upper
129	100		
127	78.3	39.2	117.6





#61
1,2-Dibromoethane
Concen: 16.790 ug/l
RT: 11.470 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

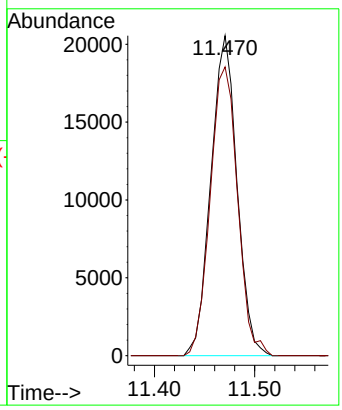
Tgt Ion:107 Resp: 3719

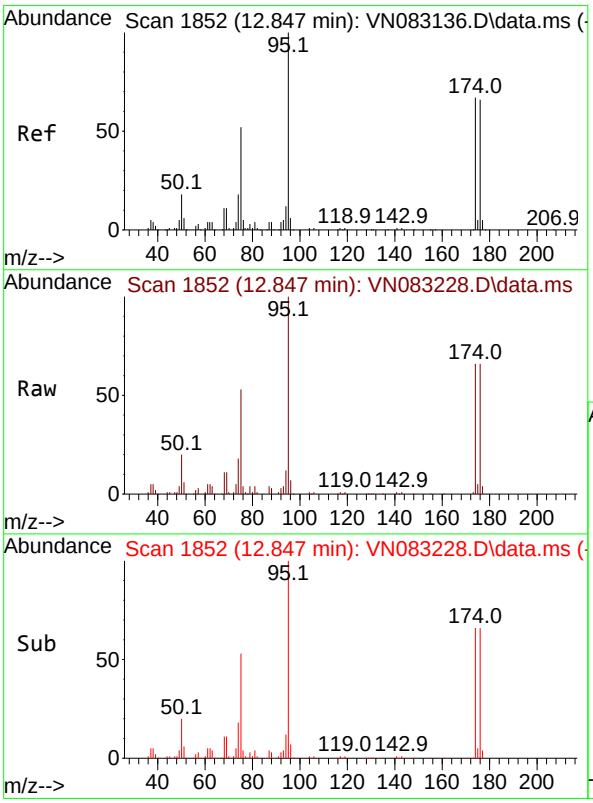
Ion	Ratio	Lower	Upper
107	100		
109	94.5	73.7	110.5

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

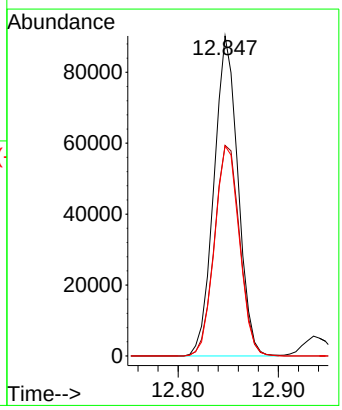


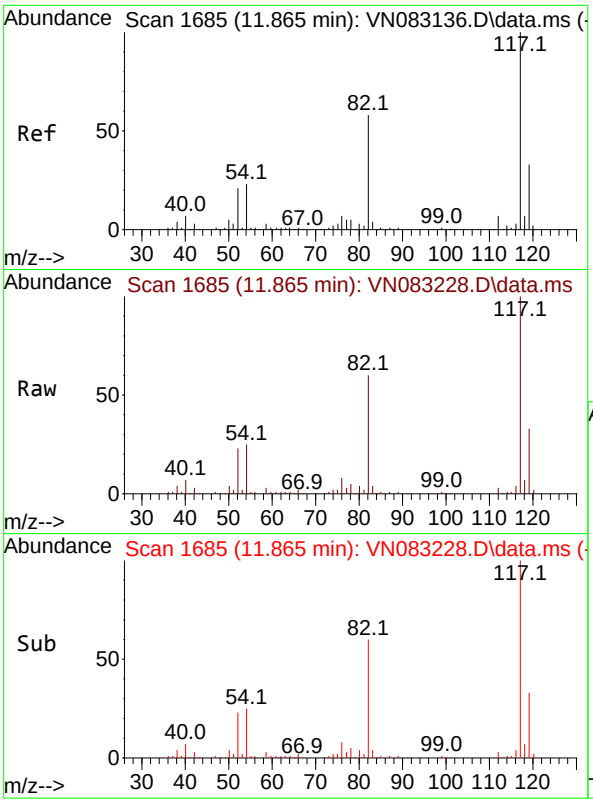


#62
4-Bromofluorobenzene
Concen: 49.916 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 95 Resp: 150021

Ion	Ratio	Lower	Upper
95	100		
174	69.7	0.0	159.2
176	67.9	0.0	147.6

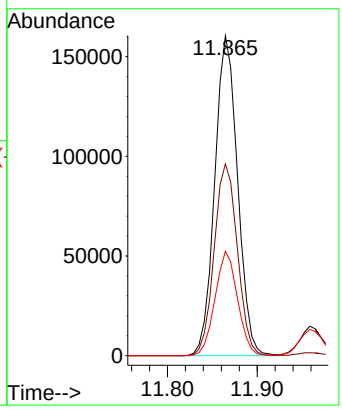




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion:117 Resp: 28377

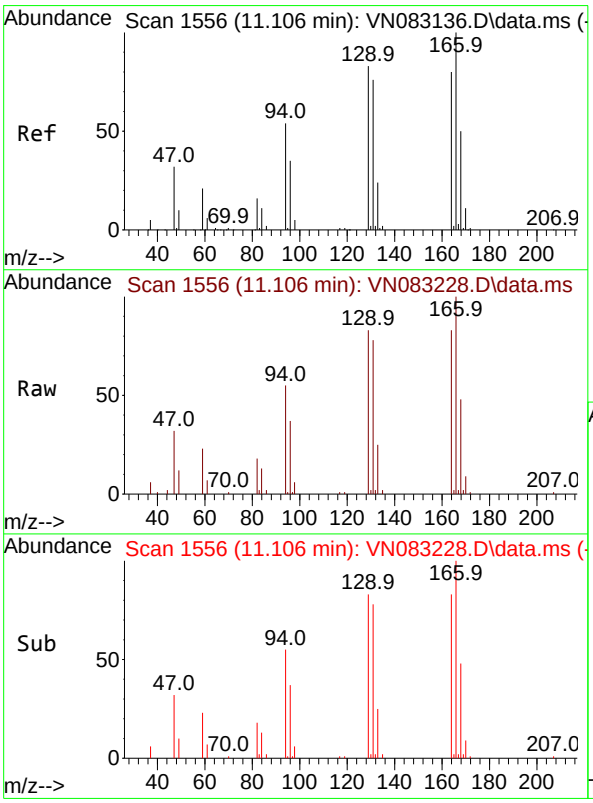
Ion	Ratio	Lower	Upper
117	100		
82	59.9	47.5	71.3
119	32.7	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

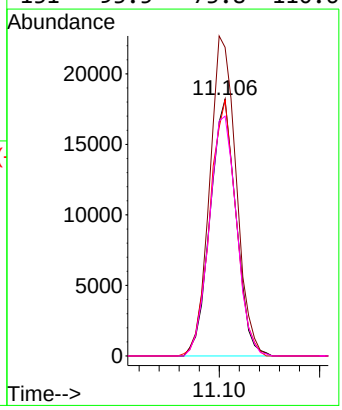
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

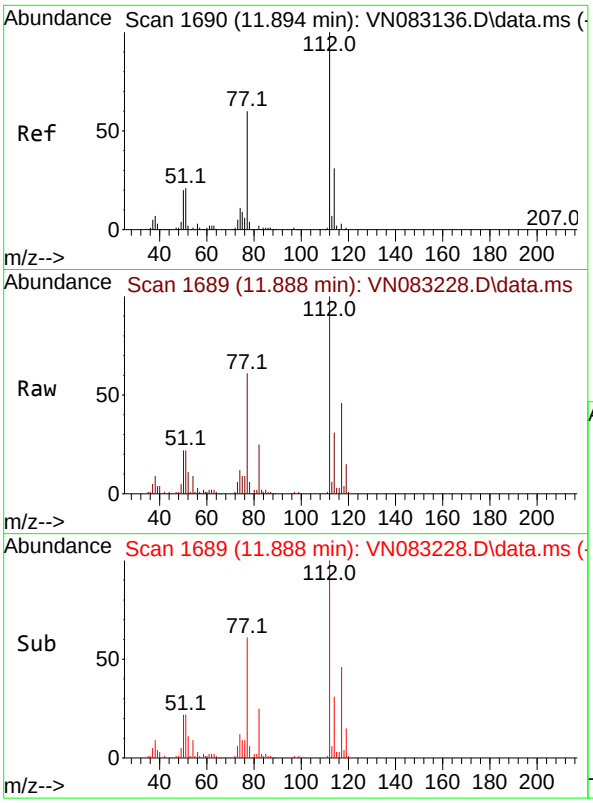


#64
Tetrachloroethene
Concen: 17.334 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion:164 Resp: 32577

Ion	Ratio	Lower	Upper
164	100		
166	120.3	101.4	152.0
129	99.7	75.7	113.5
131	93.5	73.8	110.6

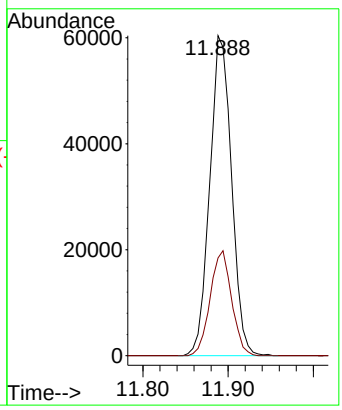




#65
Chlorobenzene
Concen: 17.091 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion:112 Resp: 10717

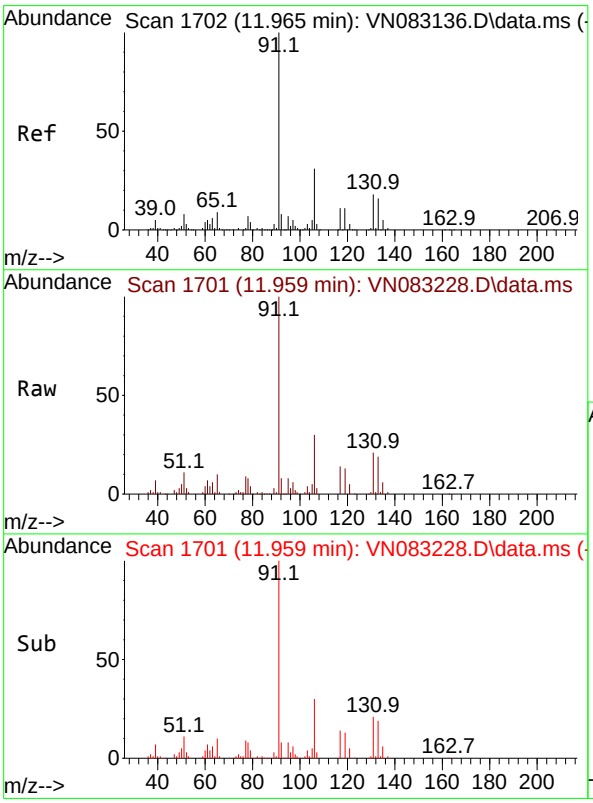
Ion	Ratio	Lower	Upper
112	100		
114	30.5	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

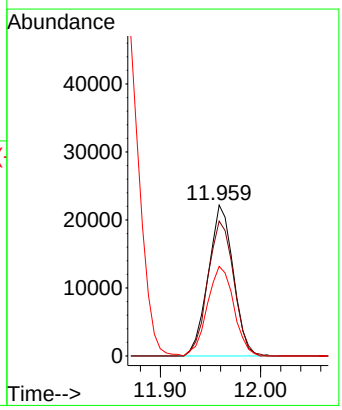
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

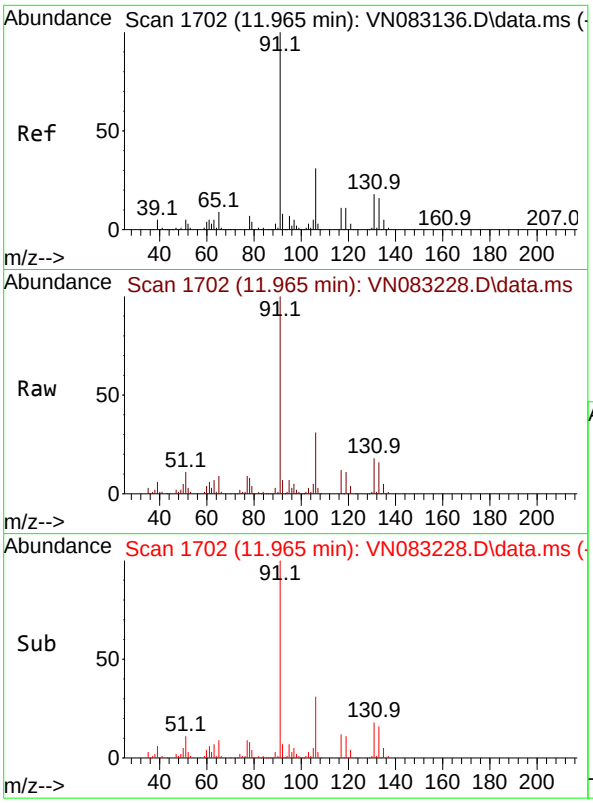


#66
1,1,1,2-Tetrachloroethane
Concen: 17.383 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion:131 Resp: 38446

Ion	Ratio	Lower	Upper
131	100		
133	93.1	47.3	142.0
119	62.7	32.5	97.4

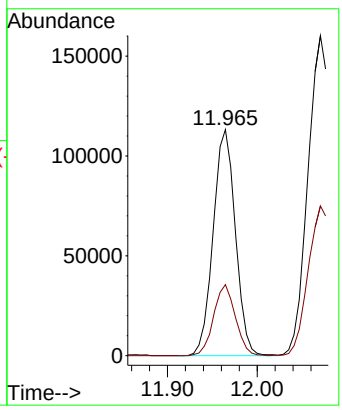




#67
Ethyl Benzene
Concen: 16.918 ug/l
RT: 11.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 91 Resp: 19462

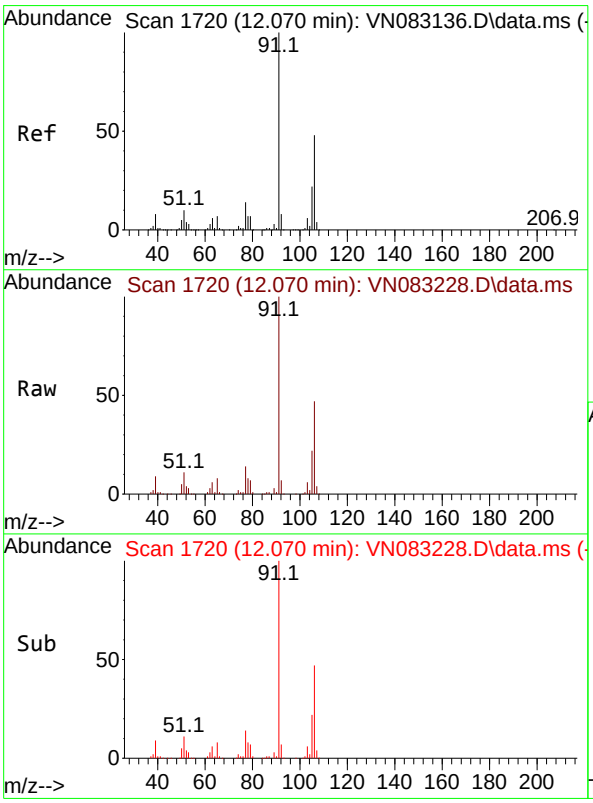
Ion	Ratio	Lower	Upper
91	100		
106	31.4	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations APPROVED

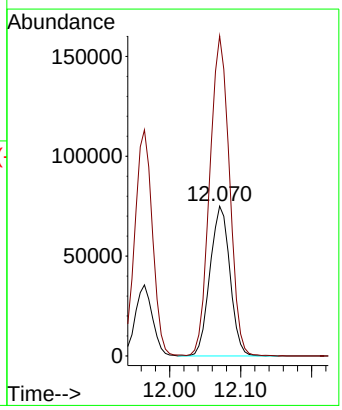
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

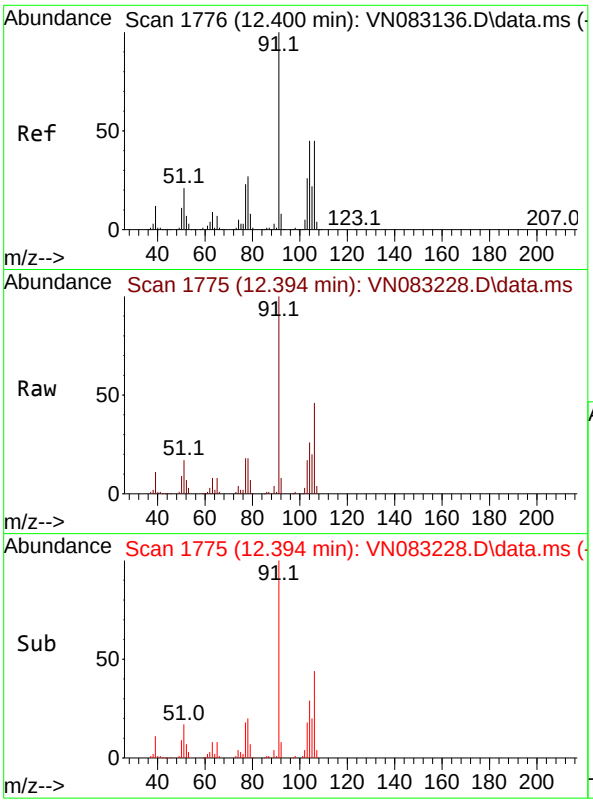


#68
m/p-Xylenes
Concen: 33.919 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion:106 Resp: 146169

Ion	Ratio	Lower	Upper
106	100		
91	211.4	166.1	249.1





#69
o-Xylene
Concen: 16.996 ug/l
RT: 12.394 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

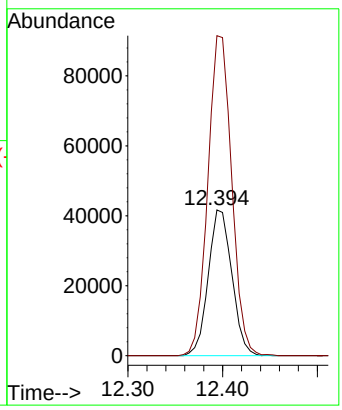
Tgt Ion:106 Resp: 7223

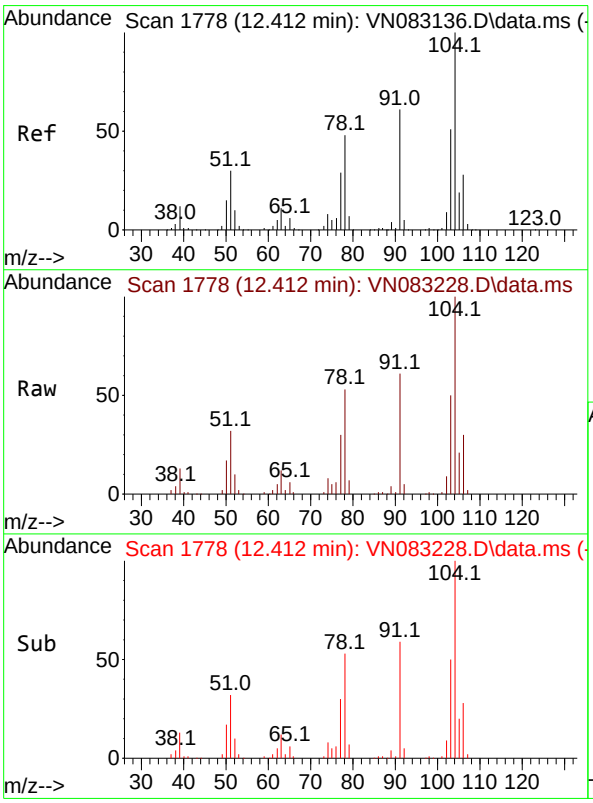
Ion	Ratio	Lower	Upper
106	100		
91	221.7	111.3	333.9

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

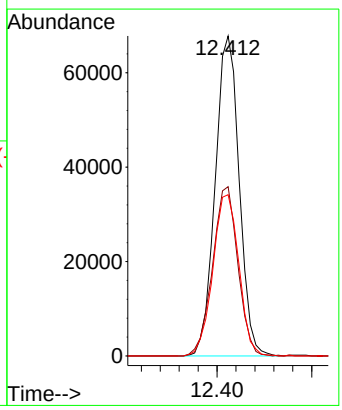


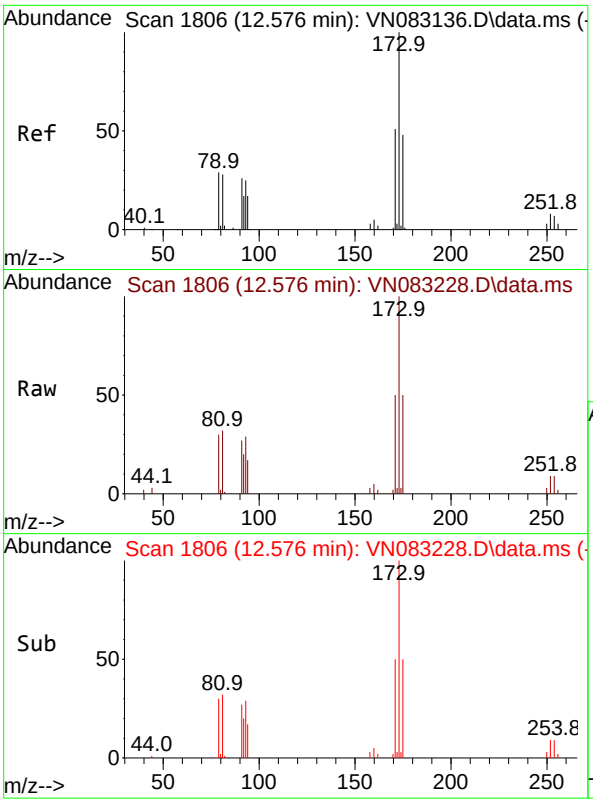


#70
Styrene
Concen: 16.721 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion:104 Resp: 119364

Ion	Ratio	Lower	Upper
104	100		
78	55.7	41.6	62.4
103	54.5	44.0	66.0

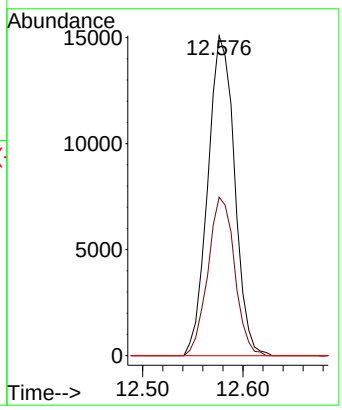




#71
Bromoform
Concen: 16.668 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion:173 Resp: 2792

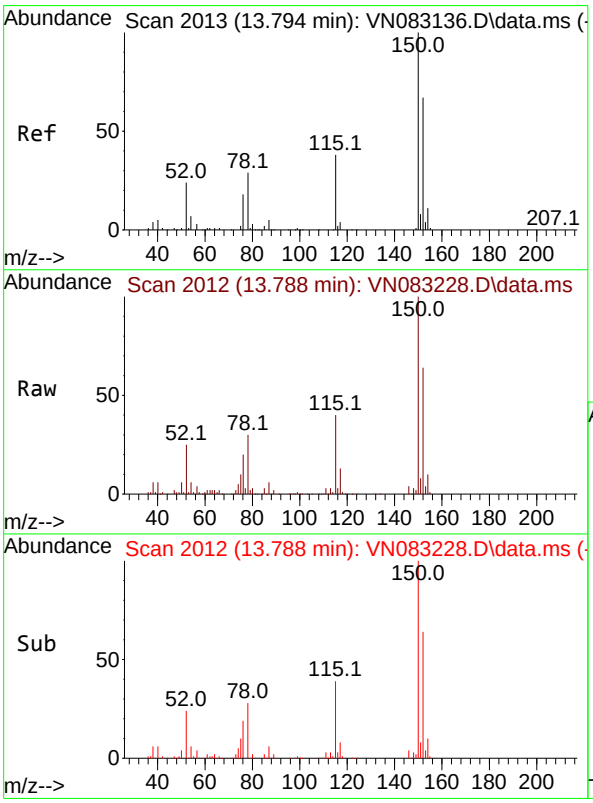
Ion	Ratio	Lower	Upper
173	100		
175	49.6	24.0	72.0
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

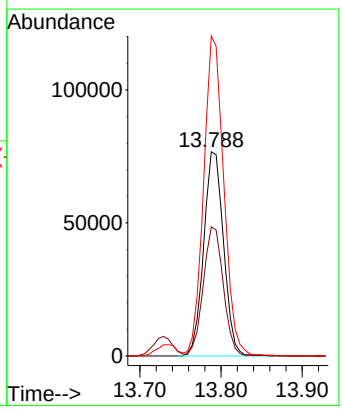
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

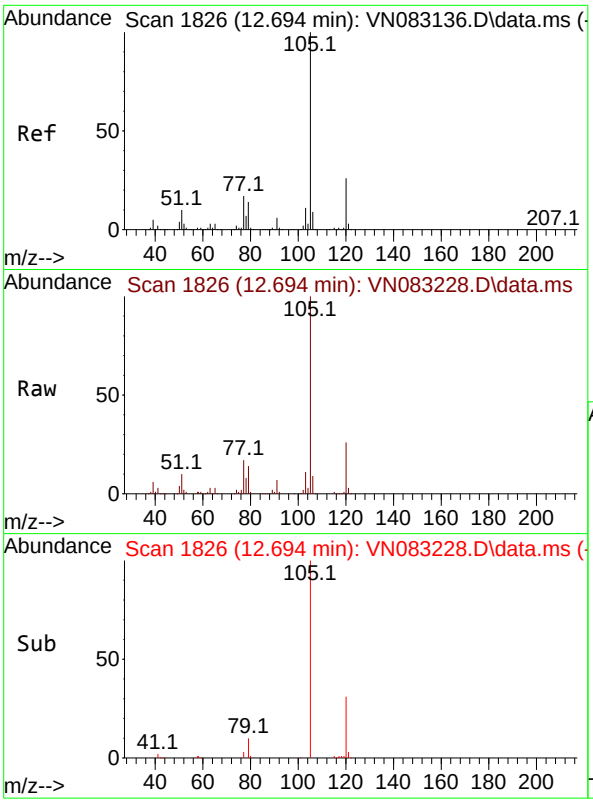


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion:152 Resp: 130523

Ion	Ratio	Lower	Upper
152	100		
115	63.6	30.6	91.6
150	159.1	0.0	348.6





#73
Isopropylbenzene
Concen: 17.157 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

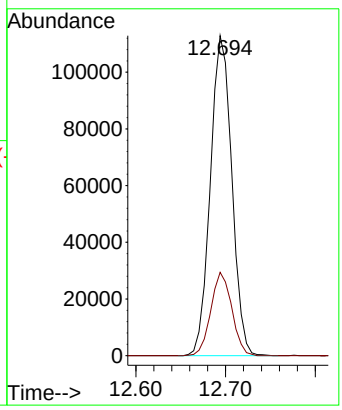
Tgt Ion:105 Resp: 18730

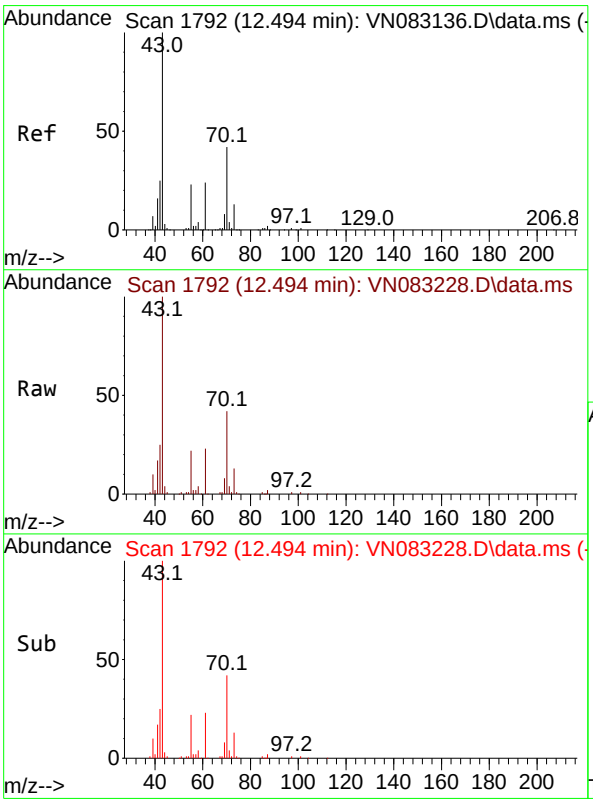
Ion	Ratio	Lower	Upper
105	100		
120	25.5	12.9	38.6

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

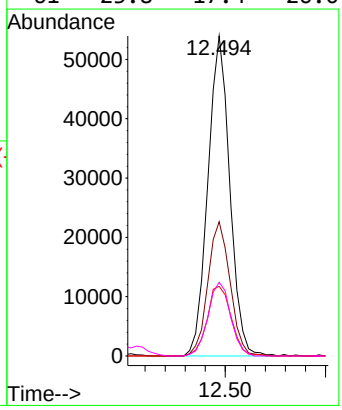


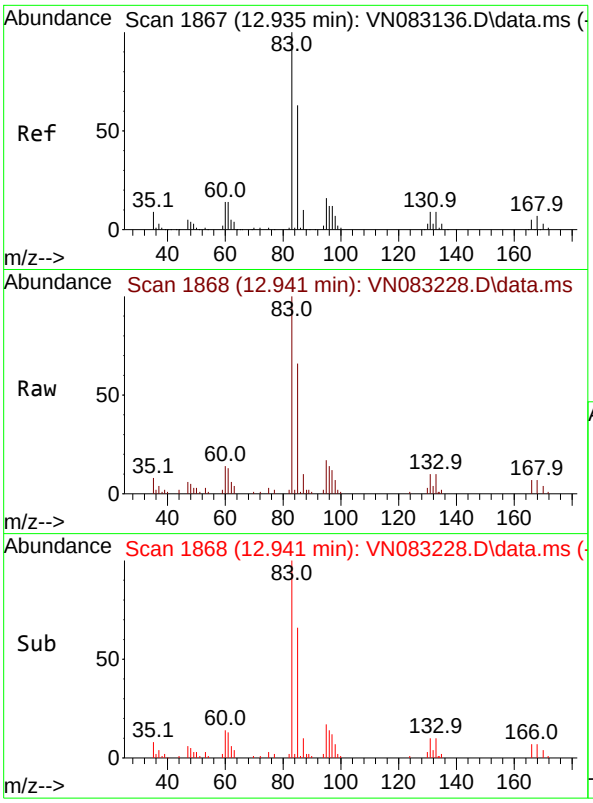


#74
N-amyl acetate
Concen: 15.329 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 43 Resp: 81860

Ion	Ratio	Lower	Upper
43	100		
70	42.6	29.8	44.6
55	24.0	18.7	28.1
61	23.8	17.4	26.0





#75
1,1,2,2-Tetrachloroethane
Concen: 16.427 ug/l
RT: 12.941 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

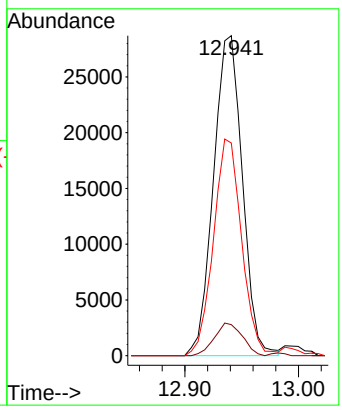
Tgt Ion: 83 Resp: 5072

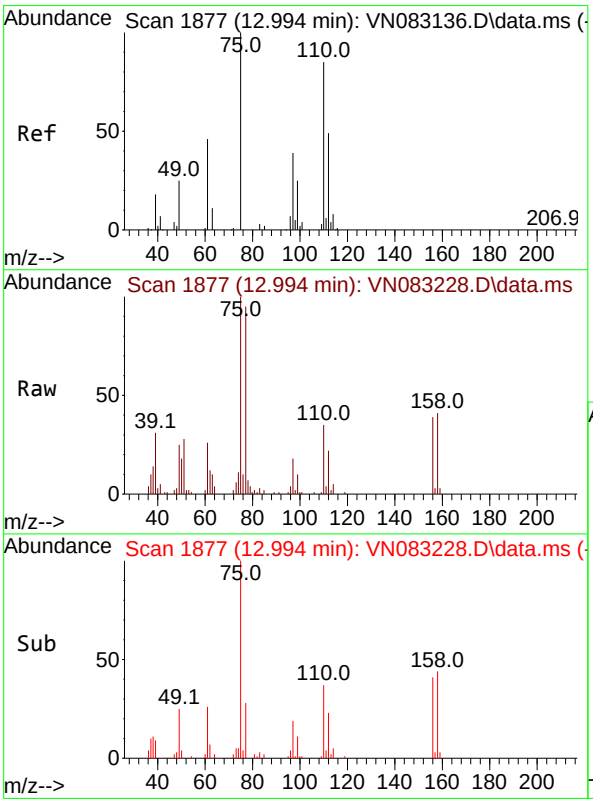
Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	14.9
85	66.2	31.9	95.7

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

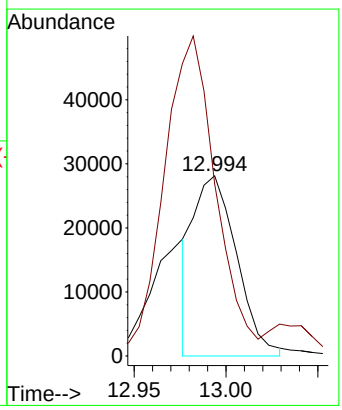


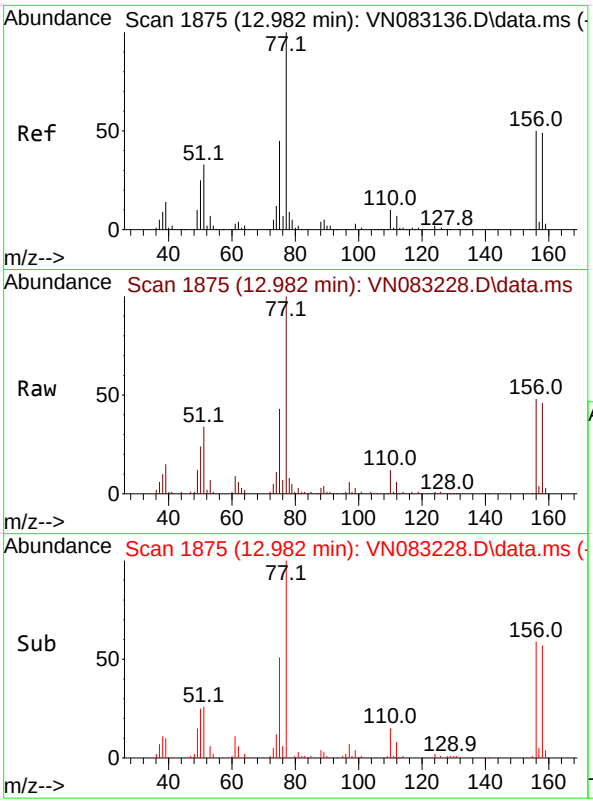


#76
1,2,3-Trichloropropane
Concen: 16.087 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 75 Resp: 46083

Ion	Ratio	Lower	Upper
75	100		
77	212.7	110.9	332.6

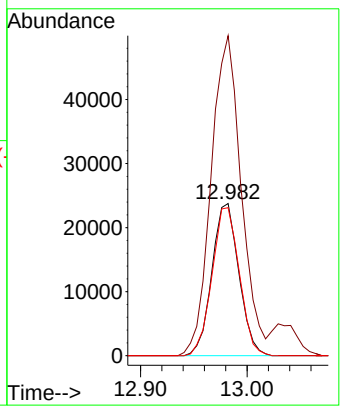




#77
Bromobenzene
Concen: 17.219 ug/l
RT: 12.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion:156 Resp: 4175

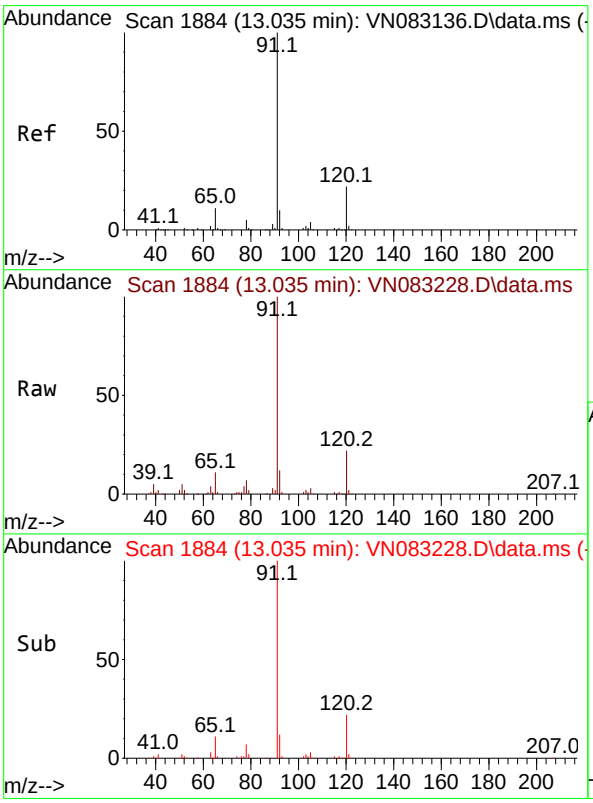
Ion	Ratio	Lower	Upper
156	100		
77	234.7	111.3	333.8
158	98.5	48.3	144.9



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

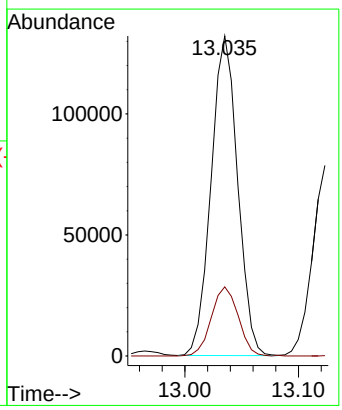
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

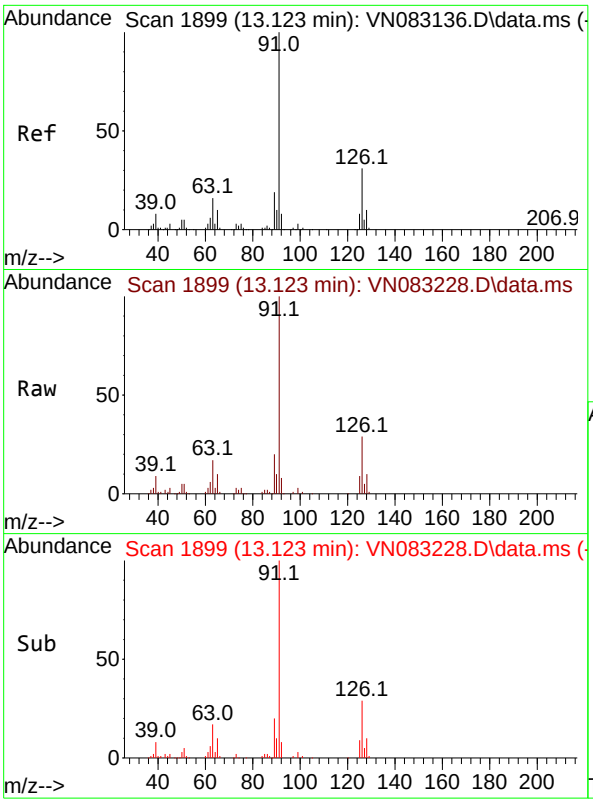


#78
n-propylbenzene
Concen: 17.073 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 91 Resp: 214628

Ion	Ratio	Lower	Upper
91	100		
120	21.9	10.9	32.9

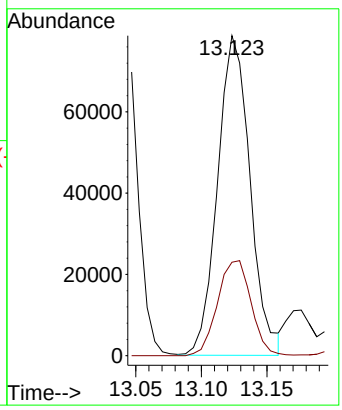




#79
2-Chlorotoluene
Concen: 17.018 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 91 Resp: 13563

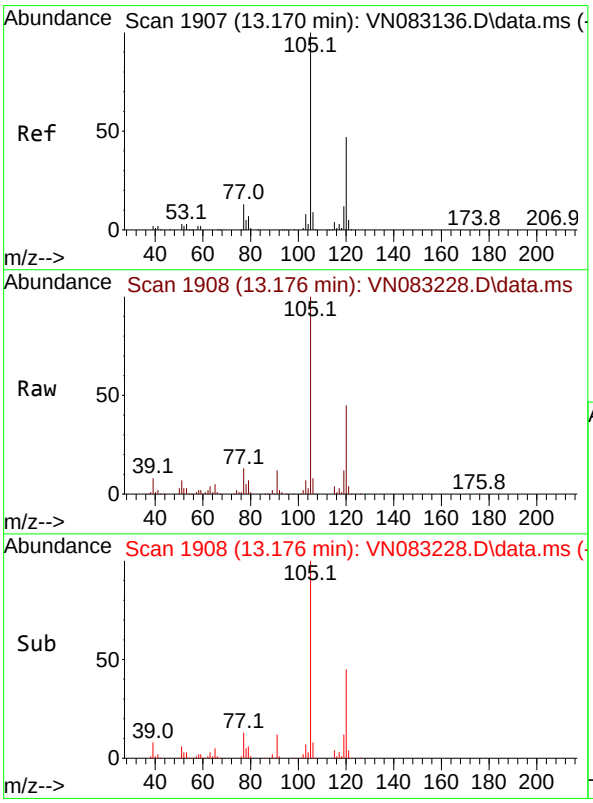
Ion	Ratio	Lower	Upper
91	100		
126	30.6	16.2	48.6



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

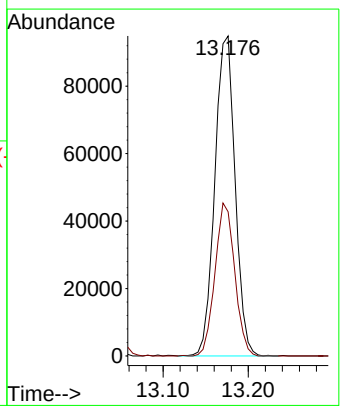
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

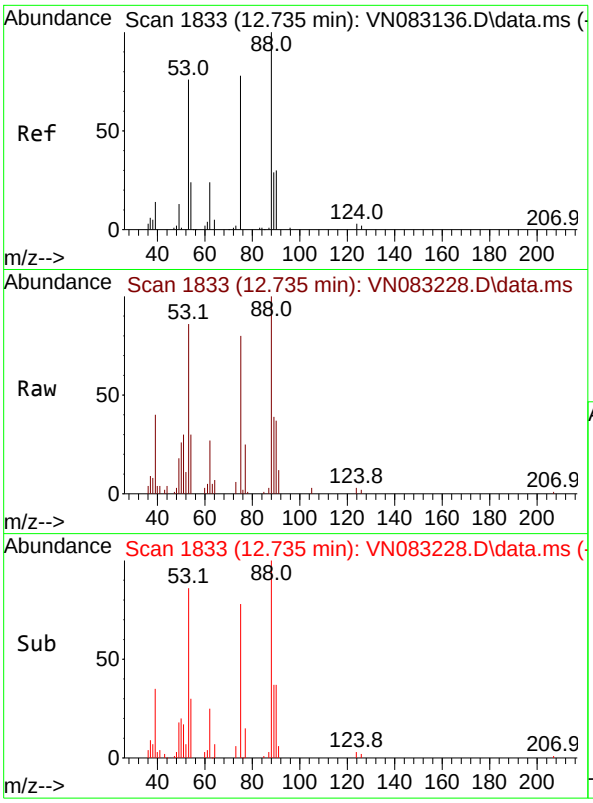


#80
1,3,5-Trimethylbenzene
Concen: 17.149 ug/l
RT: 13.176 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion:105 Resp: 156743

Ion	Ratio	Lower	Upper
105	100		
120	46.6	24.3	72.8

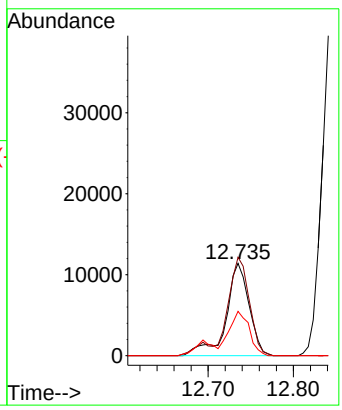




#81
trans-1,4-Dichloro-2-butene
Concen: 16.150 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 75 Resp: 2126

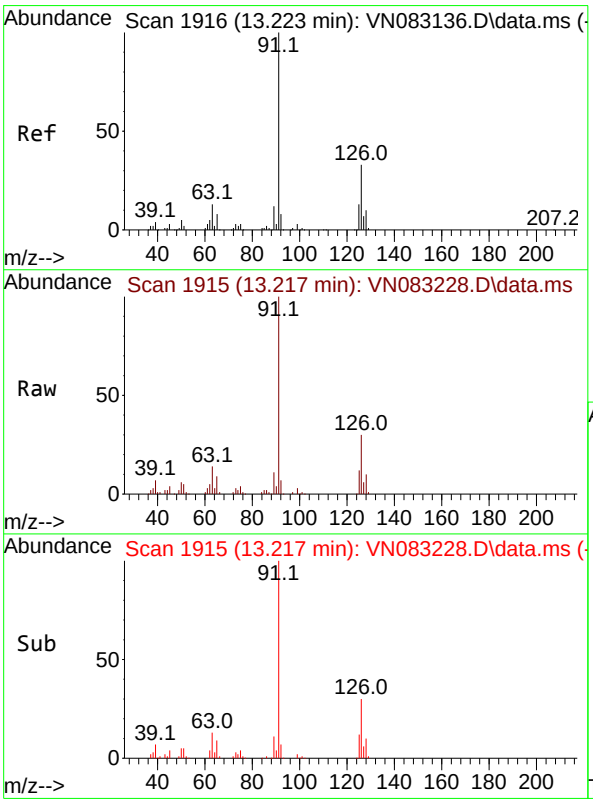
Ion	Ratio	Lower	Upper
75	100		
53	96.1	88.4	132.6
89	42.4	36.3	54.5



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

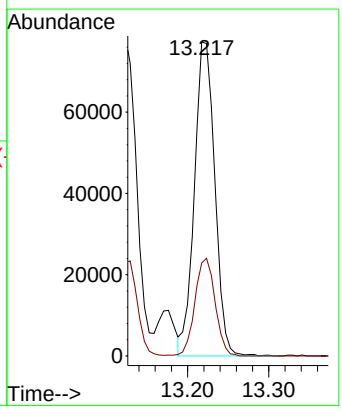
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

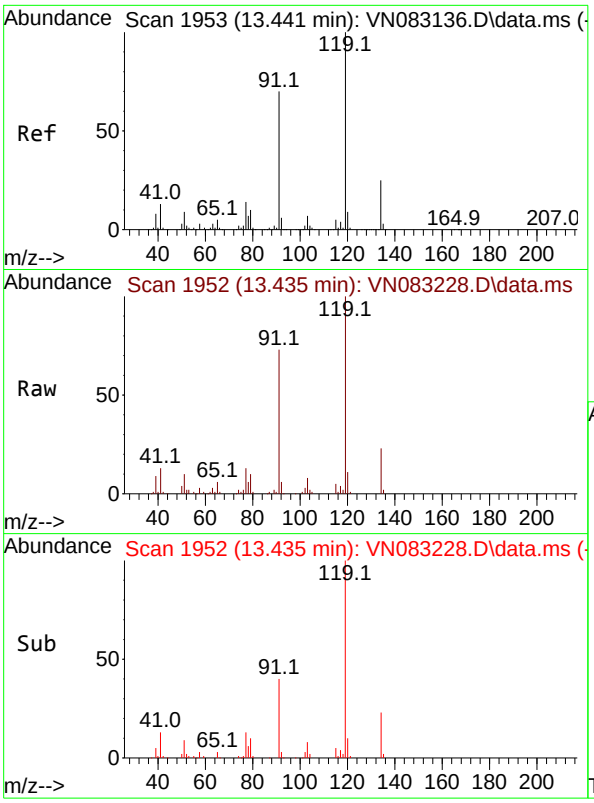


#82
4-Chlorotoluene
Concen: 16.910 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 91 Resp: 135189

Ion	Ratio	Lower	Upper
91	100		
126	30.8	16.2	48.6

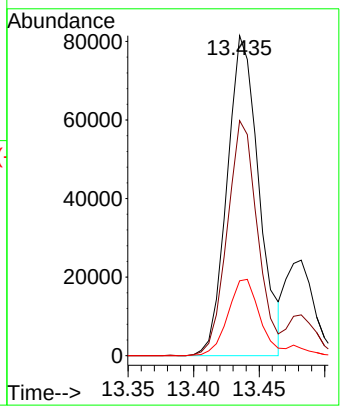




#83
tert-Butylbenzene
Concen: 17.022 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion:119 Resp: 13778

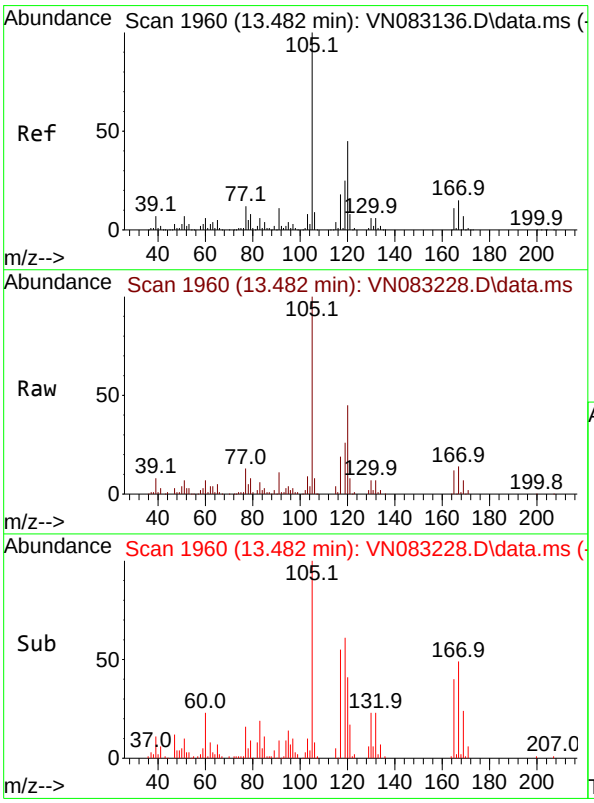
Ion	Ratio	Lower	Upper
119	100		
91	70.0	35.0	105.1
134	24.0	13.3	39.8



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

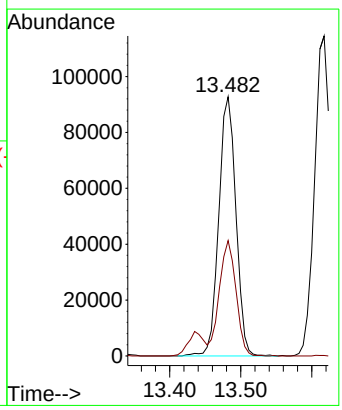
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

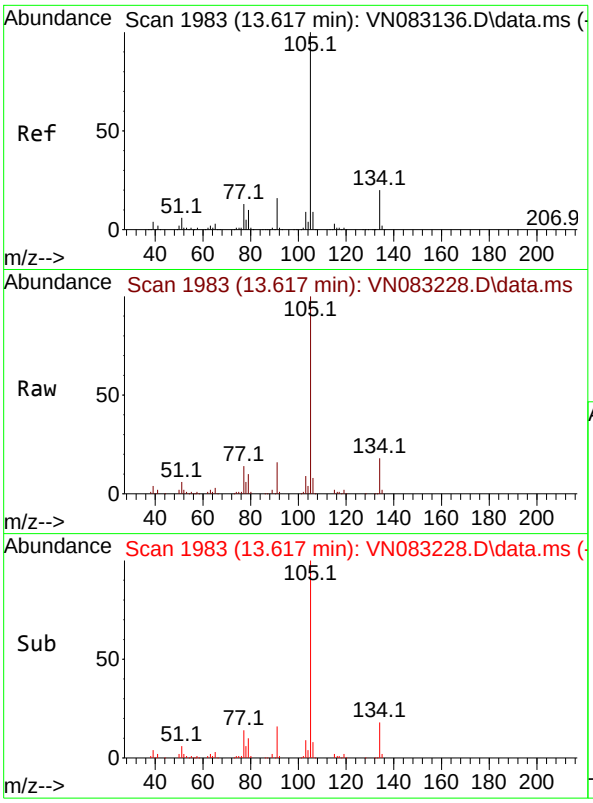


#84
1,2,4-Trimethylbenzene
Concen: 16.820 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion:105 Resp: 154931

Ion	Ratio	Lower	Upper
105	100		
120	43.6	21.9	65.8

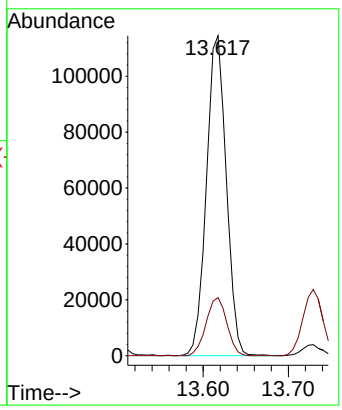




#85
sec-Butylbenzene
Concen: 16.779 ug/l
RT: 13.617 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion:105 Resp: 18531

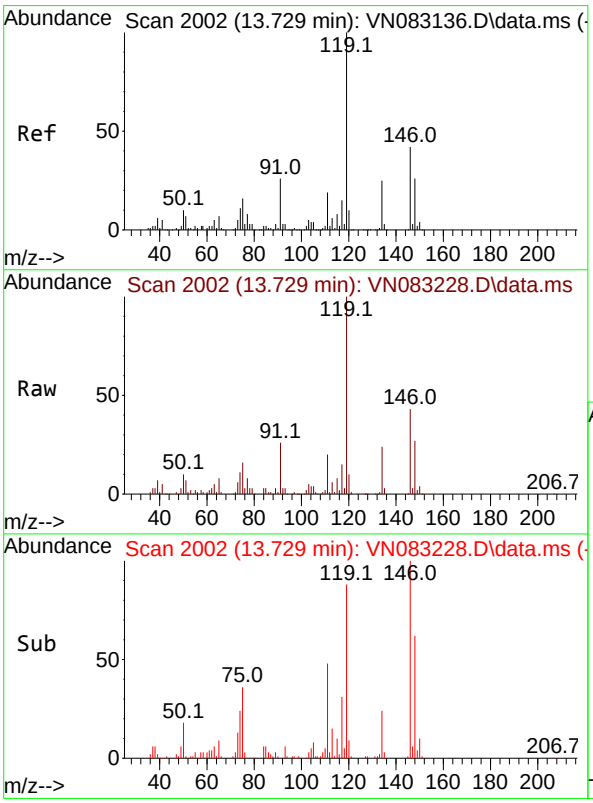
Ion	Ratio	Lower	Upper
105	100		
134	18.9	9.8	29.3



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

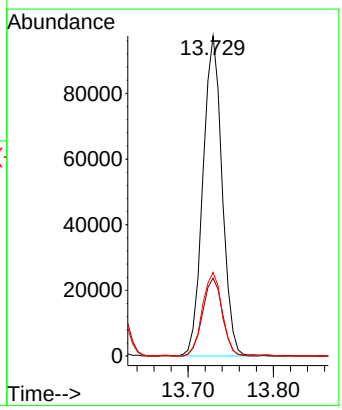
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

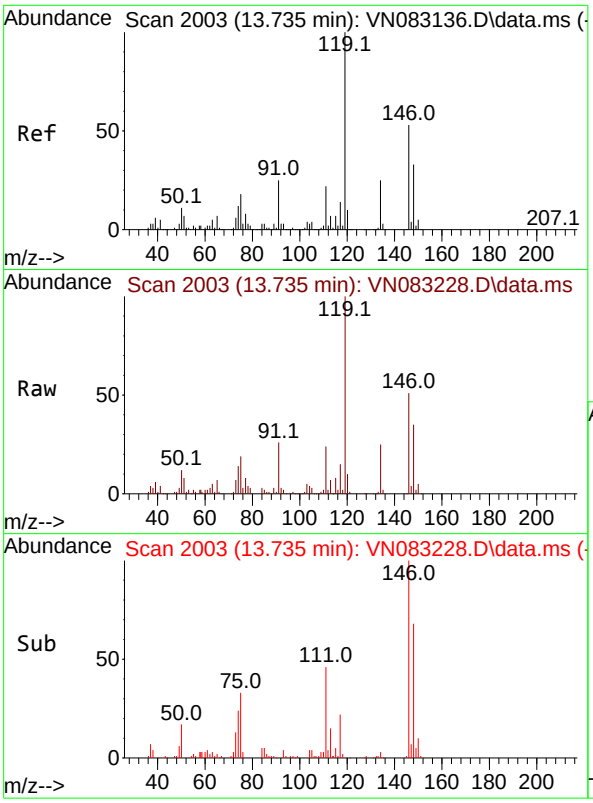


#86
p-Isopropyltoluene
Concen: 16.680 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion:119 Resp: 152113

Ion	Ratio	Lower	Upper
119	100		
134	25.1	13.0	39.0
91	26.5	12.3	36.9

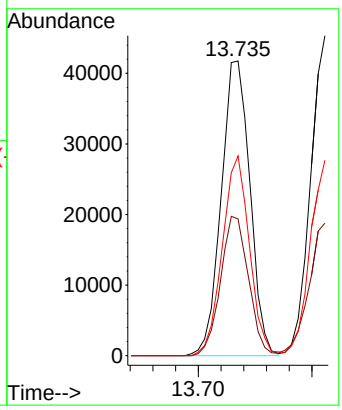




#87
1,3-Dichlorobenzene
Concen: 16.078 ug/l
RT: 13.735 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion:146 Resp: 7336

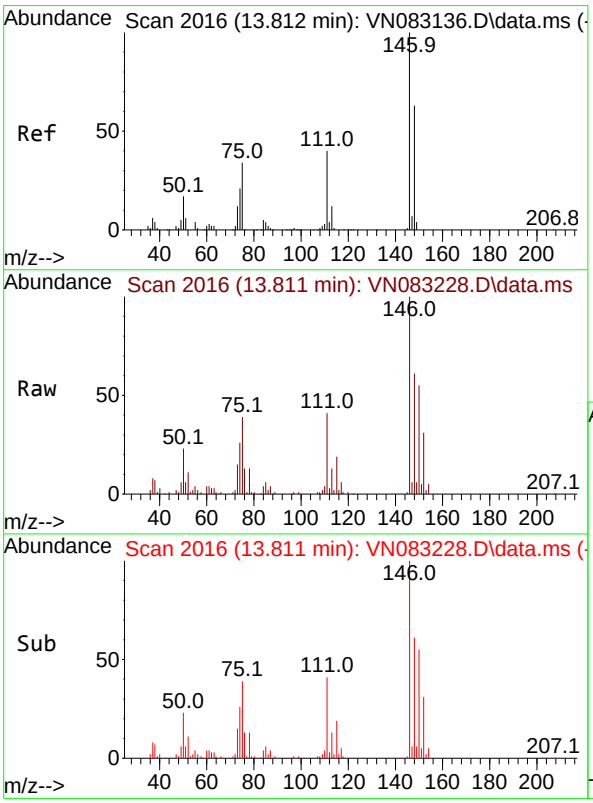
Ion	Ratio	Lower	Upper
146	100		
111	46.0	20.6	61.9
148	64.3	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

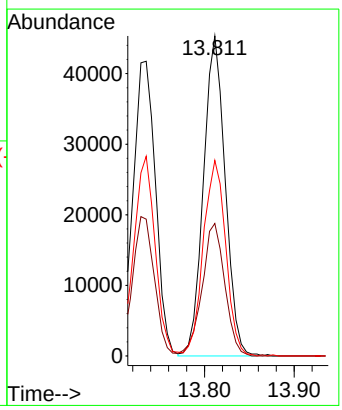
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

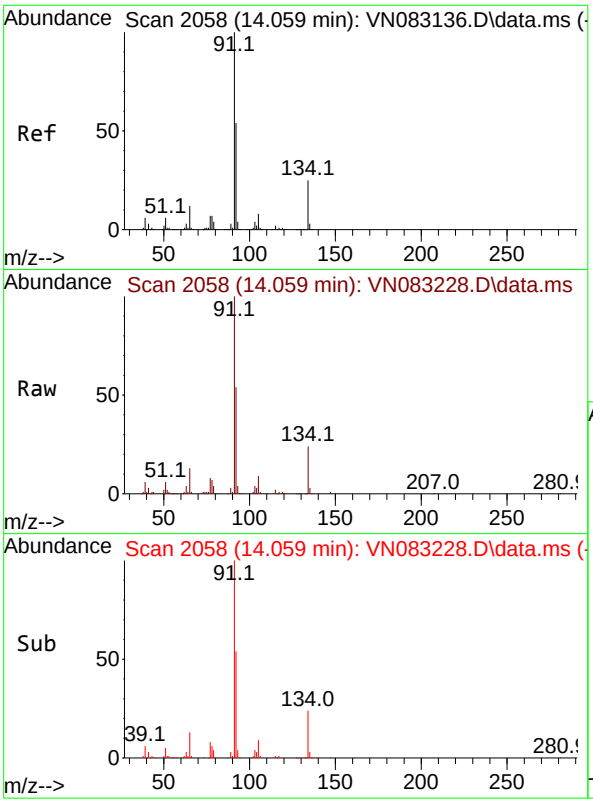


#88
1,4-Dichlorobenzene
Concen: 16.606 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion:146 Resp: 76396

Ion	Ratio	Lower	Upper
146	100		
111	43.1	20.1	60.3
148	63.0	32.2	96.6

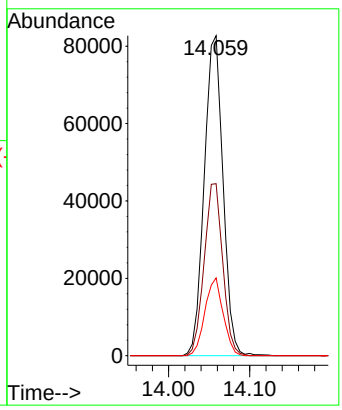




#89
n-Butylbenzene
Concen: 16.796 ug/l
RT: 14.059 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 91 Resp: 13271

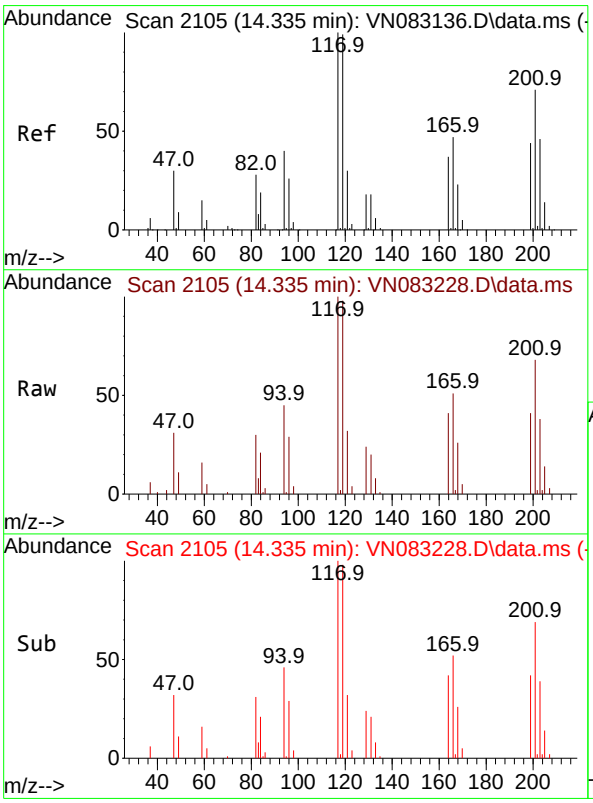
Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.1	78.3
134	23.6	12.1	36.3



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

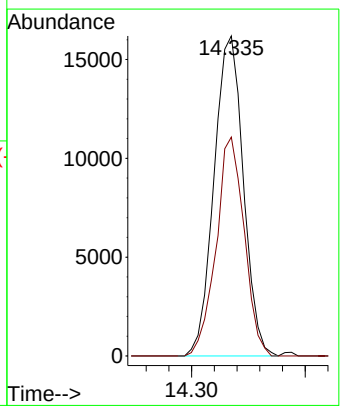
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

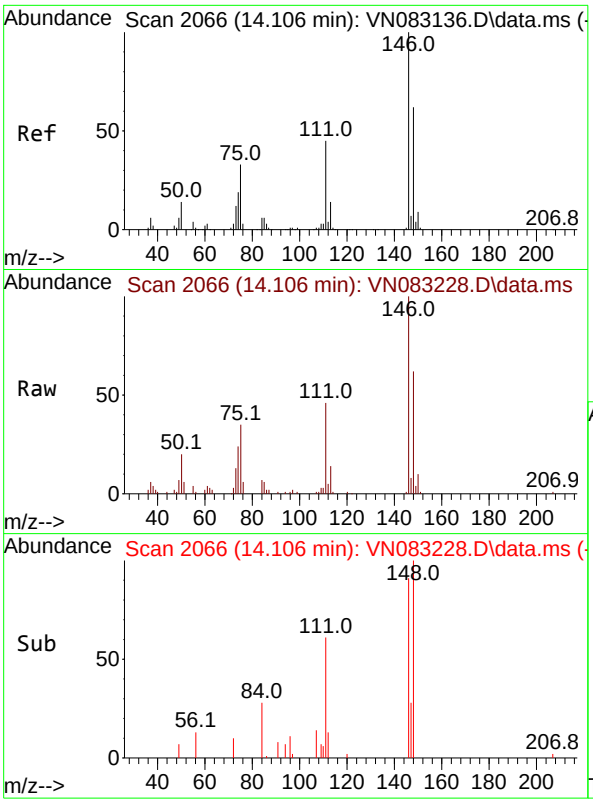


#90
Hexachloroethane
Concen: 16.464 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion:117 Resp: 29007

Ion	Ratio	Lower	Upper
117	100		
201	65.5	35.8	107.3

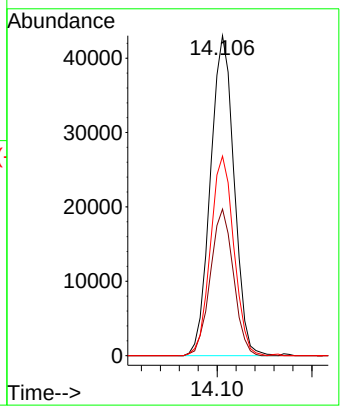




#91
1,2-Dichlorobenzene
Concen: 16.880 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion:146 Resp: 7454

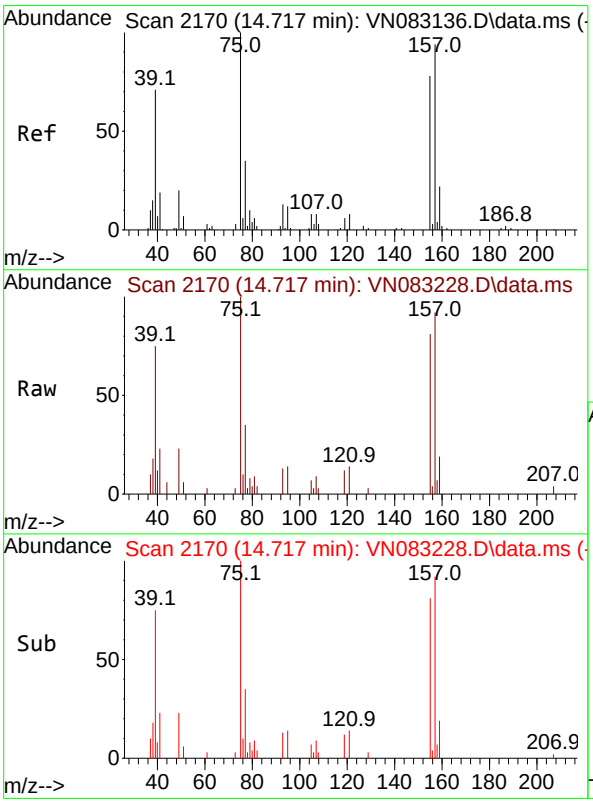
Ion	Ratio	Lower	Upper
146	100		
111	44.6	21.4	64.2
148	61.8	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations APPROVED

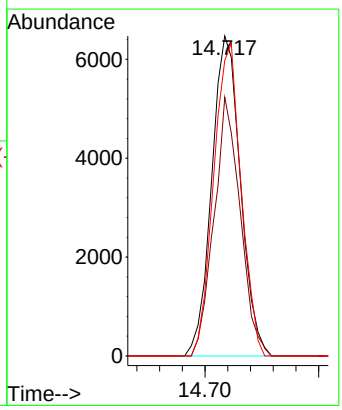
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

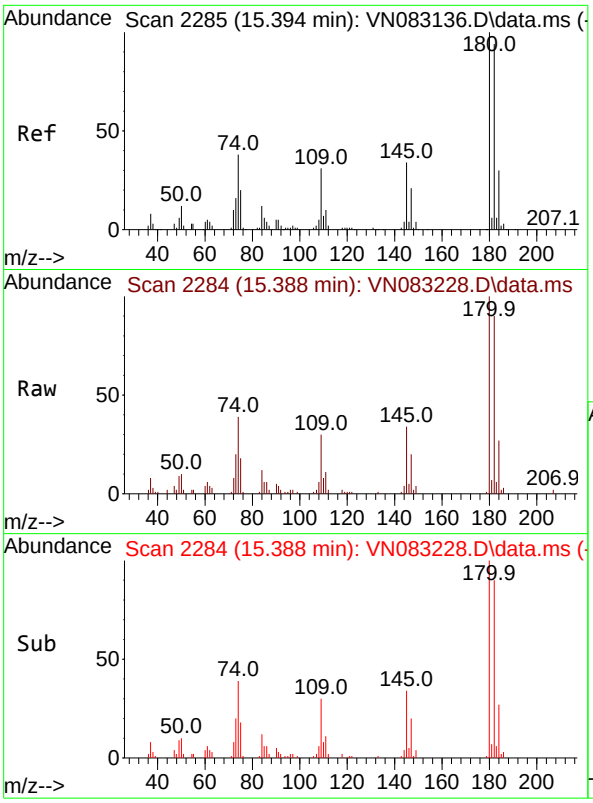


#92
1,2-Dibromo-3-Chloropropane
Concen: 15.155 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion: 75 Resp: 11355

Ion	Ratio	Lower	Upper
75	100		
155	73.9	36.6	109.8
157	93.2	46.9	140.6

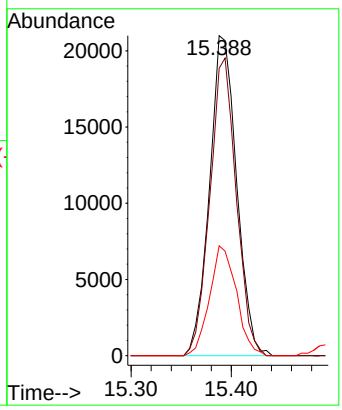




#93
1,2,4-Trichlorobenzene
Concen: 15.946 ug/l
RT: 15.388 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion:180 Resp: 3945

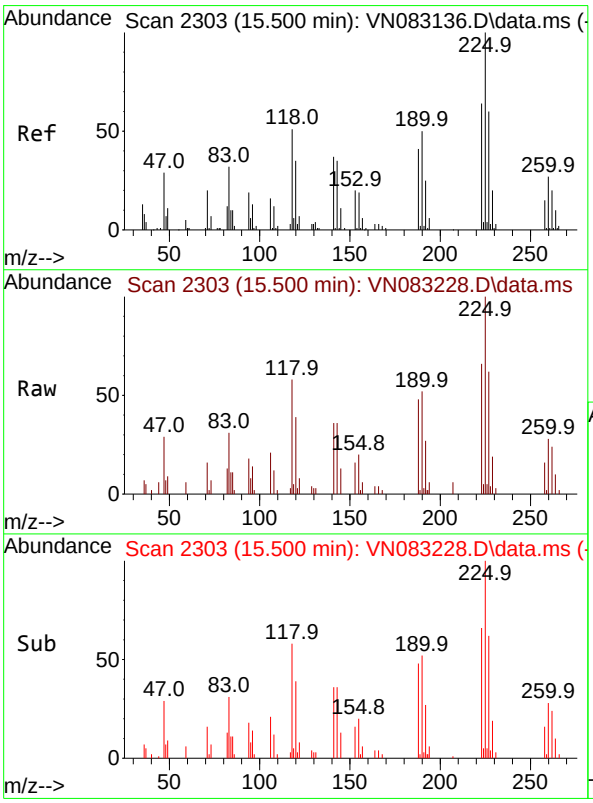
Ion	Ratio	Lower	Upper
180	100		
182	90.4	47.3	141.8
145	34.0	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations APPROVED

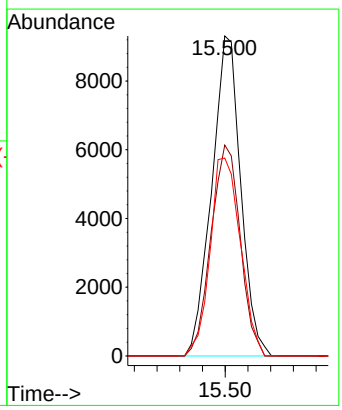
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

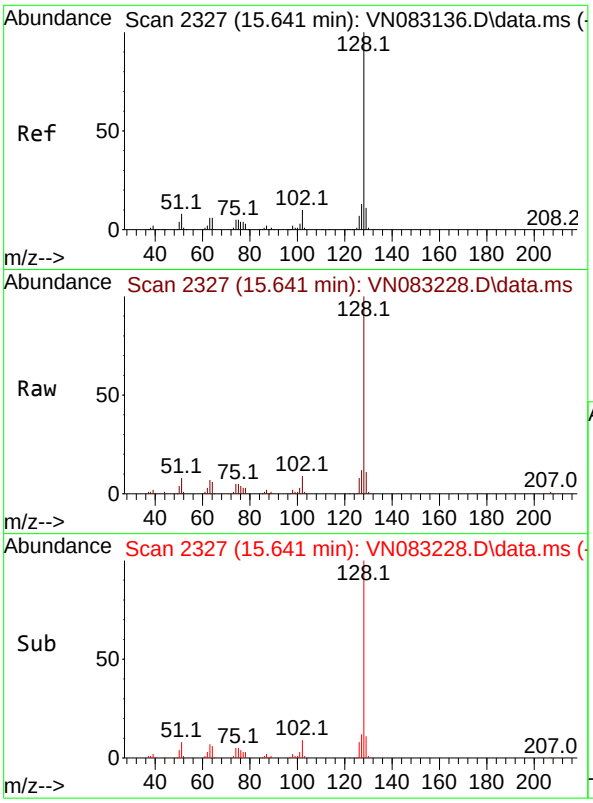


#94
Hexachlorobutadiene
Concen: 14.992 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion:225 Resp: 16495

Ion	Ratio	Lower	Upper
225	100		
223	66.3	31.9	95.7
227	64.7	32.5	97.5

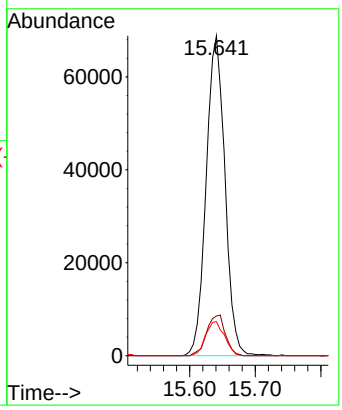




#95
Naphthalene
Concen: 15.610 ug/l
RT: 15.641 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion:128 Resp: 13679

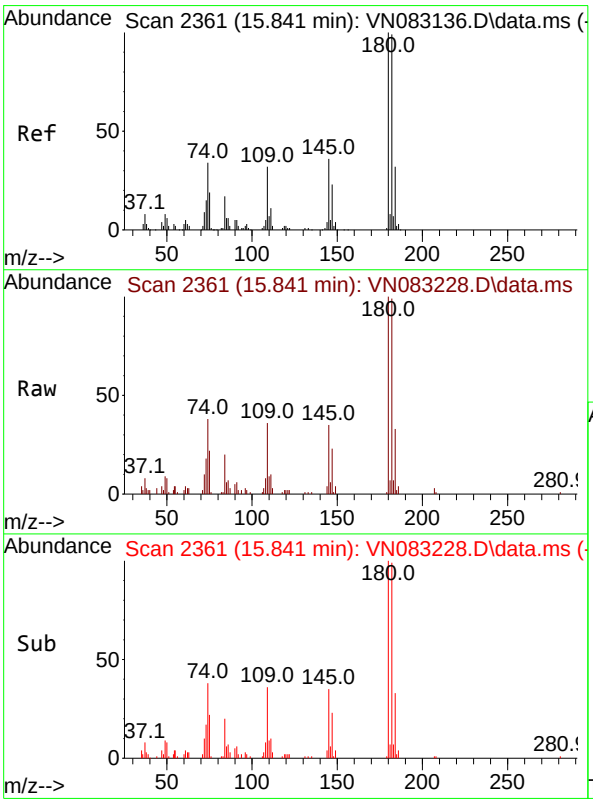
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.6	16.0
129	10.7	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Manual Integrations
APPROVED

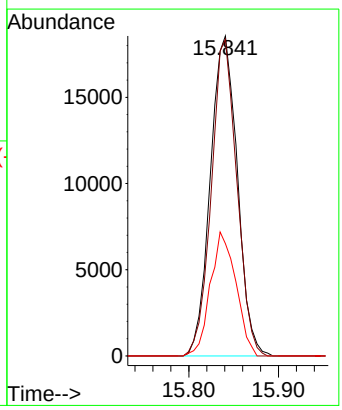
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024



#96
1,2,3-Trichlorobenzene
Concen: 15.816 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. -0.000 min
Lab File: VN083228.D
Acq: 12 Aug 2024 11:10

Tgt Ion:180 Resp: 38717

Ion	Ratio	Lower	Upper
180	100		
182	93.4	48.9	146.8
145	36.7	16.8	50.4



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:	VN0813WBS01	SDG No.:	P3429
Lab Sample ID:	VN0813WBS01	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
VN083249.D	1		08/13/24 11:40	VN081324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	17.1		0.21	1.00	ug/L
74-87-3	Chloromethane	17.1		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	18.1		0.34	1.00	ug/L
74-83-9	Bromomethane	18.2		1.40	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.5		0.25	1.00	ug/L
67-64-1	Acetone	90.0		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	15.1		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	17.4		0.16	1.00	ug/L
75-09-2	Methylene Chloride	16.9		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	16.6		0.25	1.00	ug/L
110-82-7	Cyclohexane	17.0		1.60	5.00	ug/L
78-93-3	2-Butanone	85.3		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.0		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	17.3		0.25	1.00	ug/L
67-66-3	Chloroform	18.8		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	17.9		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	16.9		0.19	1.00	ug/L
71-43-2	Benzene	17.8		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.8		0.24	1.00	ug/L
79-01-6	Trichloroethene	17.6		0.32	1.00	ug/L
75-27-4	Bromodichloromethane	18.0		0.24	1.00	ug/L
108-88-3	Toluene	17.7		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	18.8		0.21	1.00	ug/L
124-48-1	Dibromochloromethane	18.3		0.18	1.00	ug/L
127-18-4	Tetrachloroethene	18.0		0.25	1.00	ug/L
108-90-7	Chlorobenzene	17.8		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	17.9		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	35.7		0.31	2.00	ug/L
1330-20-7	Total Xylenes	53.5		0.45	3.00	ug/L
95-47-6	o-Xylene	17.8		0.14	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:	VN0813WBS01	SDG No.:	P3429
Lab Sample ID:	VN0813WBS01	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
VN083249.D	1		08/13/24 11:40	VN081324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
98-82-8	Isopropylbenzene	18.1		0.13	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	17.8		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	17.7		0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.7		70 (74) - 130 (125)	97%	SPK: 50
1868-53-7	Dibromofluoromethane	47.4		70 (75) - 130 (124)	95%	SPK: 50
2037-26-5	Toluene-d8	46.7		70 (86) - 130 (113)	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.5		70 (77) - 130 (121)	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	178000	8.224			
540-36-3	1,4-Difluorobenzene	306000	9.1			
3114-55-4	Chlorobenzene-d5	264000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	120000	13.794			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083249.D
Acq On : 13 Aug 2024 11:40
Operator : JC\MD
Sample : VN0813WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 01:39:38 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 :
VN0813WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	8.224	168	178353	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	9.100	114	306441	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.865	117	263797	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	120363	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.577	65	123513	48.653	ug/l		0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 97.300%				
35) Dibromofluoromethane	8.165	113	90577	47.355	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.700%				
50) Toluene-d8	10.565	98	333102	46.686	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 93.380%				
62) 4-Bromofluorobenzene	12.847	95	126499	45.477	ug/l		0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 90.960%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.124	85	34552	17.083	ug/l		96
3) Chloromethane	2.365	50	35497	17.143	ug/l		99
4) Vinyl Chloride	2.518	62	38233	18.095	ug/l		93
5) Bromomethane	2.965	94	23818	18.167	ug/l		88
6) Chloroethane	3.118	64	23914	18.091	ug/l		97
7) Trichlorofluoromethane	3.500	101	64104	18.366	ug/l		94
8) Diethyl Ether	3.959	74	22382	17.232	ug/l		85
9) 1,1,2-Trichlorotrifluo...	4.377	101	35670	18.536	ug/l		96
10) Methyl Iodide	4.589	142	42091	16.627	ug/l		94
11) Tert butyl alcohol	5.530	59	42081	79.762	ug/l		98
12) 1,1-Dichloroethene	4.347	96	33641	17.015	ug/l		89
13) Acrolein	4.177	56	25085	72.954	ug/l		97
14) Allyl chloride	5.024	41	56861	15.219	ug/l		94
15) Acrylonitrile	5.724	53	92469	85.222	ug/l		99
16) Acetone	4.430	43	89359	89.956	ug/l		93
17) Carbon Disulfide	4.712	76	87555	15.135	ug/l		98
18) Methyl Acetate	5.030	43	51588	17.430	ug/l	#	89
19) Methyl tert-butyl Ether	5.800	73	124113	17.392	ug/l		100
20) Methylene Chloride	5.271	84	38601	16.884	ug/l	#	85
21) trans-1,2-Dichloroethene	5.789	96	33823	16.552	ug/l		94
22) Diisopropyl ether	6.671	45	125303	17.842	ug/l	#	97
23) Vinyl Acetate	6.606	43	630546m	87.595	ug/l		
24) 1,1-Dichloroethane	6.571	63	69612	18.185	ug/l		99
25) 2-Butanone	7.482	43	130080	85.282	ug/l		94
26) 2,2-Dichloropropane	7.488	77	64854	18.243	ug/l		100
27) cis-1,2-Dichloroethene	7.488	96	42656	17.299	ug/l		95
28) Bromochloromethane	7.818	49	33565	21.456	ug/l		86
29) Tetrahydrofuran	7.841	42	83720	84.909	ug/l	#	88
30) Chloroform	7.965	83	74889	18.831	ug/l		99
31) Cyclohexane	8.253	56	63769	16.950	ug/l	#	94
32) 1,1,1-Trichloroethane	8.171	97	67426	17.911	ug/l		95
36) 1,1-Dichloropropene	8.371	75	50157	17.335	ug/l		99
37) Ethyl Acetate	7.559	43	53843	16.620	ug/l		95
38) Carbon Tetrachloride	8.365	117	58607	17.983	ug/l		98
39) Methylcyclohexane	9.600	83	60060	16.900	ug/l		89
40) Benzene	8.612	78	153249	17.779	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083249.D
Acq On : 13 Aug 2024 11:40
Operator : JC\MD
Sample : VN0813WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 01:39:38 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 :
VN0813WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.782	41	29010	15.749 ug/l	93
42) 1,2-Dichloroethane	8.671	62	59075	18.814 ug/l	100
43) Isopropyl Acetate	8.688	43	100348	16.396 ug/l #	96
44) Trichloroethene	9.353	130	36205	17.647 ug/l	95
45) 1,2-Dichloropropane	9.624	63	36725	17.949 ug/l	93
46) Dibromomethane	9.706	93	27355	18.679 ug/l	98
47) Bromodichloromethane	9.888	83	59270	18.024 ug/l #	95
48) Methyl methacrylate	9.682	41	44491	16.611 ug/l	92
49) 1,4-Dioxane	9.694	88	17077	353.407 ug/l	94
51) 4-Methyl-2-Pentanone	10.447	43	273004	89.113 ug/l	94
52) Toluene	10.629	92	96659	17.748 ug/l	99
53) t-1,3-Dichloropropene	10.835	75	60769	17.991 ug/l	98
54) cis-1,3-Dichloropropene	10.312	75	62857	17.495 ug/l	93
55) 1,1,2-Trichloroethane	11.018	97	36714	18.811 ug/l	95
56) Ethyl methacrylate	10.876	69	63015	17.126 ug/l #	87
57) 1,3-Dichloropropane	11.165	76	63233	18.176 ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	137398	88.342 ug/l	96
59) 2-Hexanone	11.194	43	205980	86.908 ug/l	94
60) Dibromochloromethane	11.359	129	43070	18.252 ug/l	98
61) 1,2-Dibromoethane	11.470	107	36278	17.694 ug/l	98
64) Tetrachloroethene	11.100	164	31390	17.967 ug/l	93
65) Chlorobenzene	11.894	112	104015	17.843 ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.965	131	38021	18.493 ug/l	97
67) Ethyl Benzene	11.965	91	191707	17.926 ug/l	99
68) m/p-Xylenes	12.070	106	143098	35.721 ug/l	98
69) o-Xylene	12.394	106	70244	17.779 ug/l	99
70) Styrene	12.412	104	119061	17.942 ug/l	99
71) Bromoform	12.576	173	27203	17.465 ug/l #	98
73) Isopropylbenzene	12.694	105	181922	18.070 ug/l	99
74) N-amyl acetate	12.494	43	82687	16.791 ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.941	83	51020	17.918 ug/l	97
76) 1,2,3-Trichloropropane	12.994	75	47260m	17.890 ug/l	
77) Bromobenzene	12.982	156	41629	18.614 ug/l	99
78) n-propylbenzene	13.035	91	208423	17.979 ug/l	99
79) 2-Chlorotoluene	13.123	91	132299	18.001 ug/l	96
80) 1,3,5-Trimethylbenzene	13.176	105	152708	18.118 ug/l	97
81) trans-1,4-Dichloro-2-b...	12.735	75	18538	15.265 ug/l	92
82) 4-Chlorotoluene	13.223	91	131924	17.895 ug/l	98
83) tert-Butylbenzene	13.435	119	133777	17.922 ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	152254	17.925 ug/l	99
85) sec-Butylbenzene	13.617	105	182028	17.872 ug/l	99
86) p-Isopropyltoluene	13.729	119	151886	18.061 ug/l	97
87) 1,3-Dichlorobenzene	13.735	146	72557	17.242 ug/l	97
88) 1,4-Dichlorobenzene	13.812	146	75711	17.846 ug/l	96
89) n-Butylbenzene	14.053	91	127777	17.535 ug/l	98
90) Hexachloroethane	14.335	117	27265	16.782 ug/l	95
91) 1,2-Dichlorobenzene	14.106	146	71959	17.671 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	11595	16.781 ug/l	98
93) 1,2,4-Trichlorobenzene	15.394	180	38146	16.721 ug/l	98
94) Hexachlorobutadiene	15.500	225	15988	15.758 ug/l	99
95) Naphthalene	15.641	128	133767	16.553 ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	37313	16.529 ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083249.D
Acq On : 13 Aug 2024 11:40
Operator : JC\MD
Sample : VN0813WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 01:39:38 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 :
VN0813WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

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

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

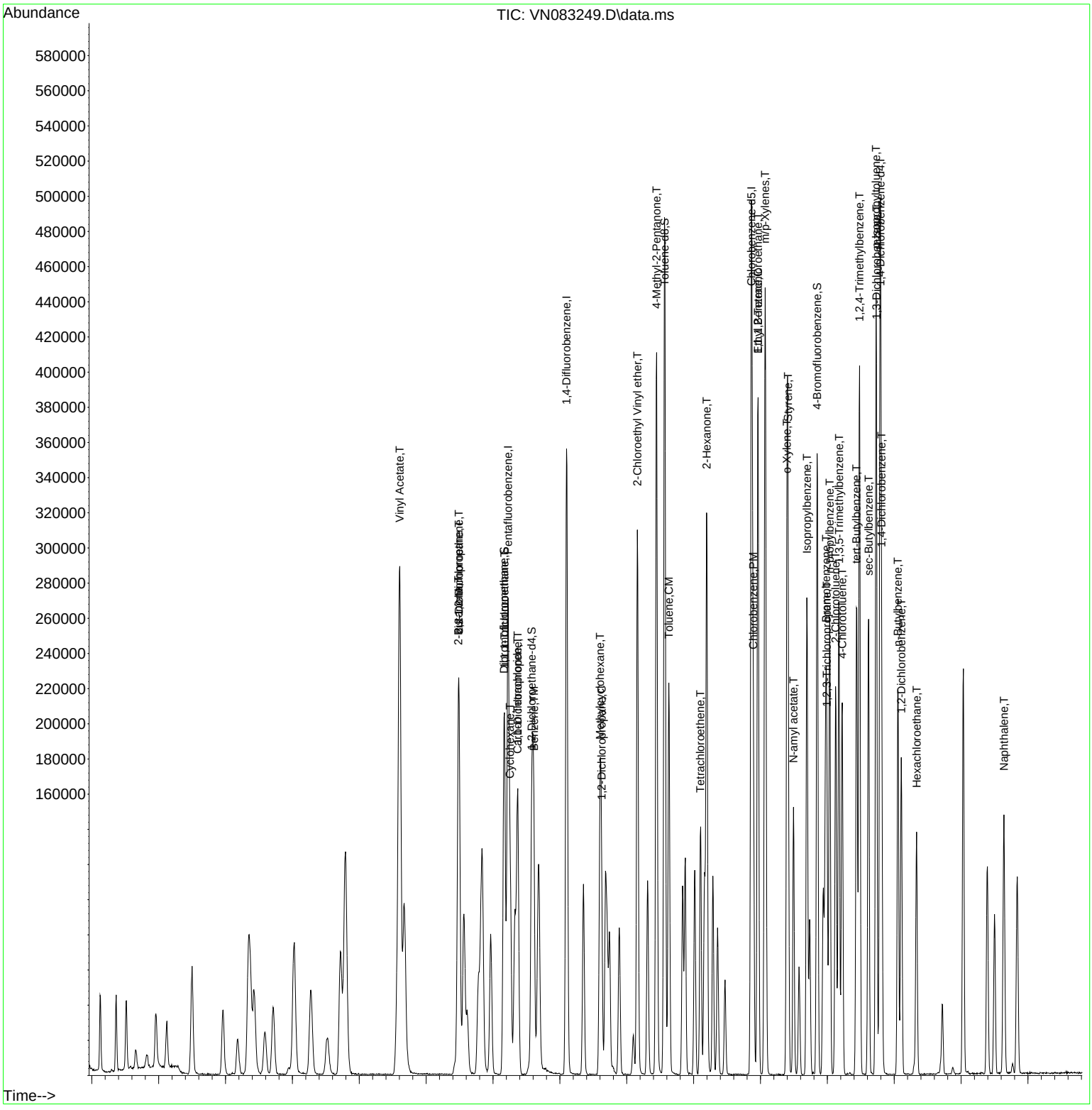
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081324\
Data File : VN083249.D
Acq On : 13 Aug 2024 11:40
Operator : JC\MD
Sample : VN0813WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

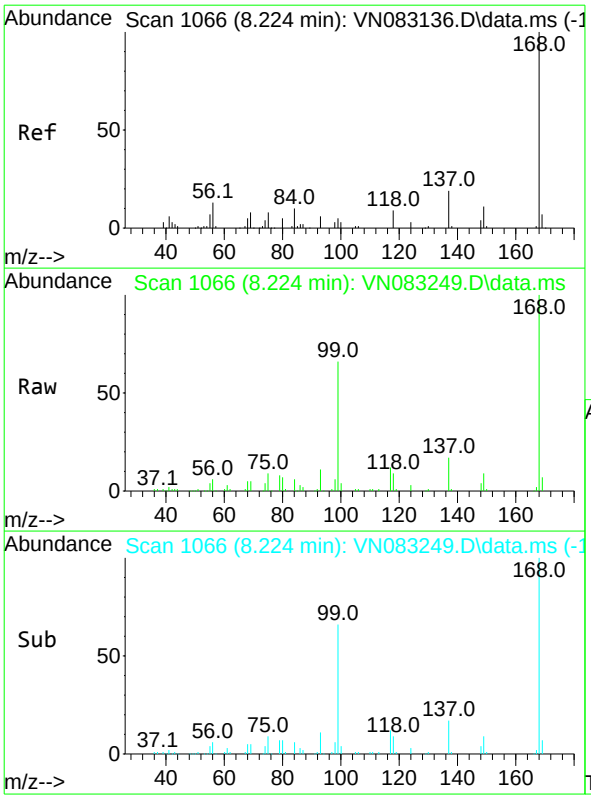
Quant Time: Aug 14 01:39:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

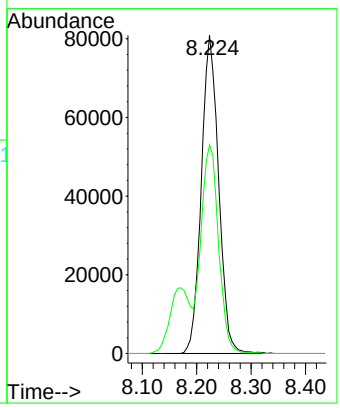




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion:168 Resp: 178353

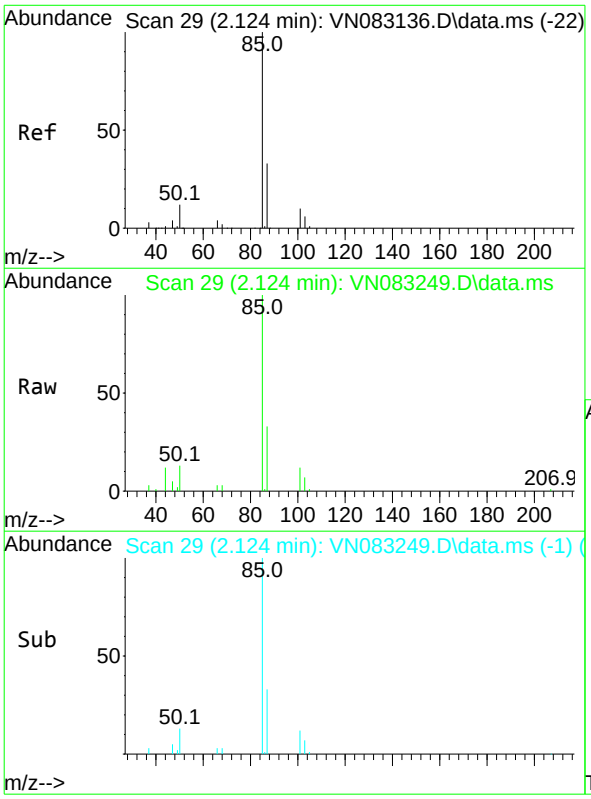
Ion	Ratio	Lower	Upper
168	100		
99	65.6	48.2	72.4



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations
APPROVED

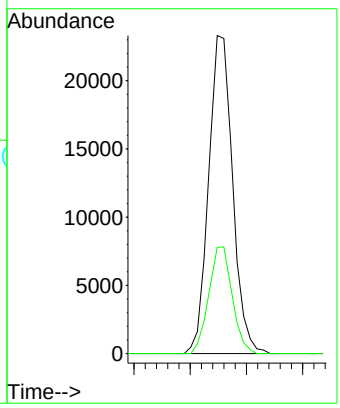
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

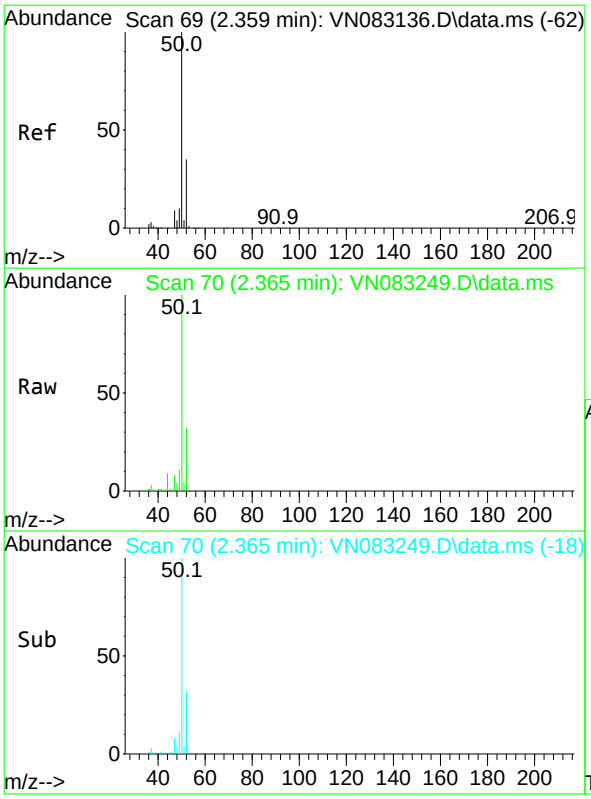


#2
Dichlorodifluoromethane
Concen: 17.083 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 85 Resp: 34552

Ion	Ratio	Lower	Upper
85	100		
87	33.4	15.7	47.0

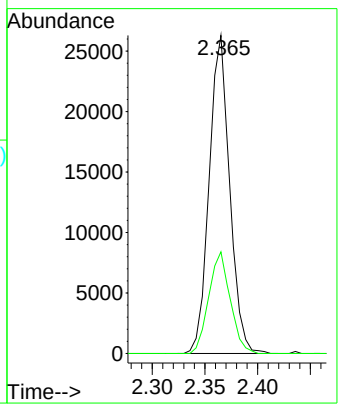




#3
Chloromethane
Concen: 17.143 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 50 Resp: 35497

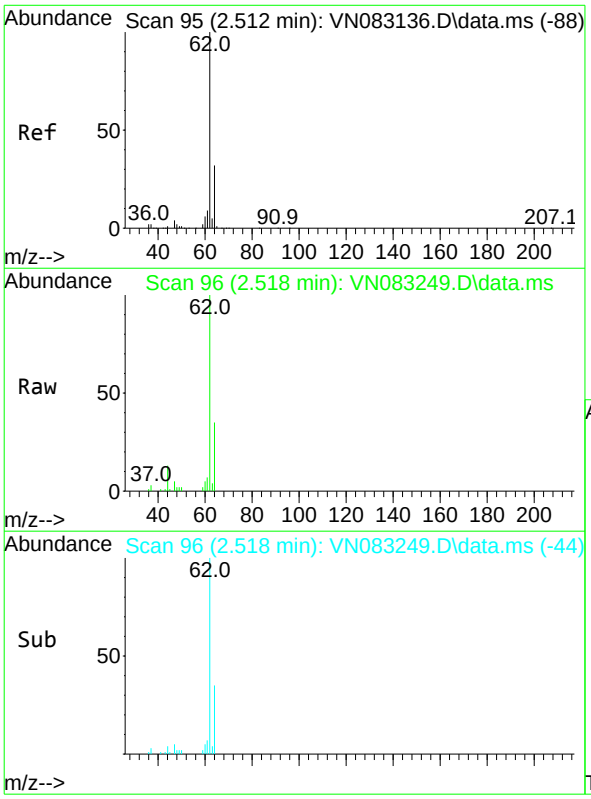
Ion	Ratio	Lower	Upper
50	100		
52	32.0	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations
APPROVED

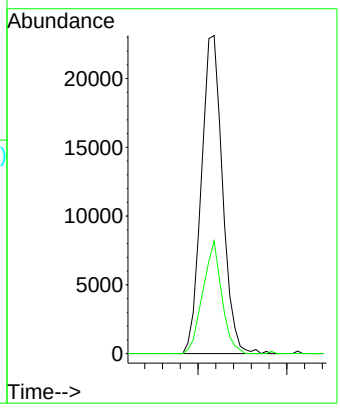
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

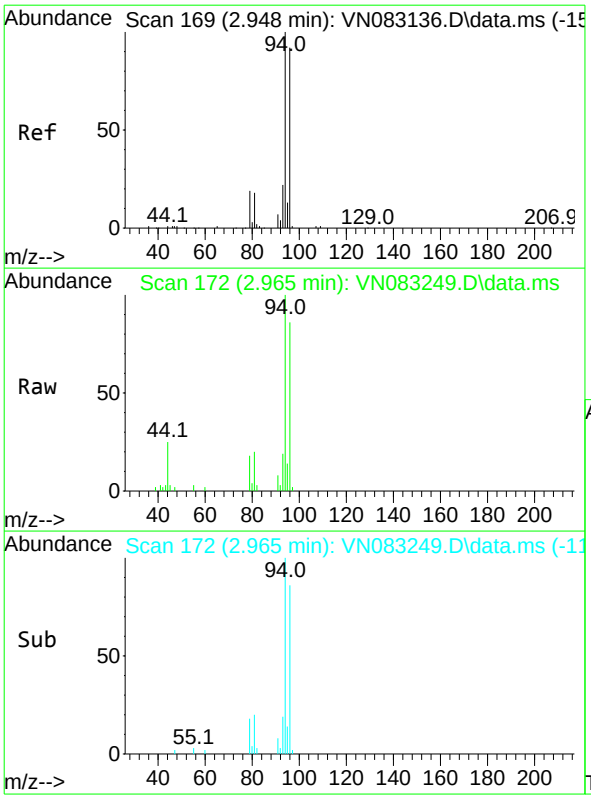


#4
Vinyl Chloride
Concen: 18.095 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 62 Resp: 38233

Ion	Ratio	Lower	Upper
62	100		
64	35.4	25.0	37.6

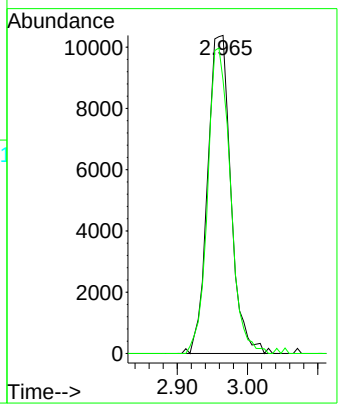




#5
Bromomethane
Concen: 18.167 ug/l
RT: 2.965 min Scan# 17
Delta R.T. 0.018 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 94 Resp: 23818

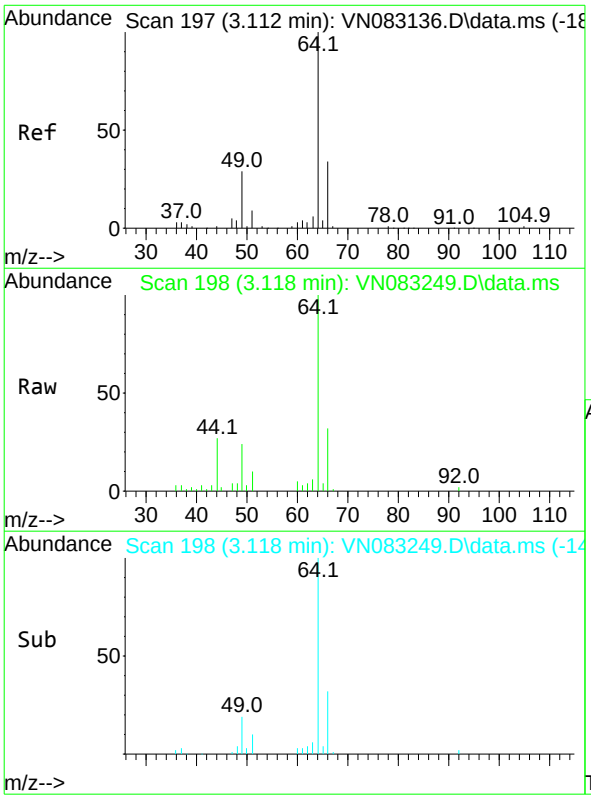
Ion	Ratio	Lower	Upper
94	100		
96	85.9	78.0	117.0



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations
APPROVED

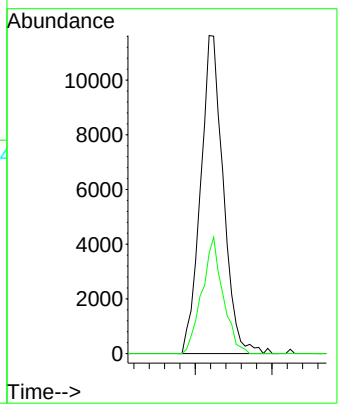
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

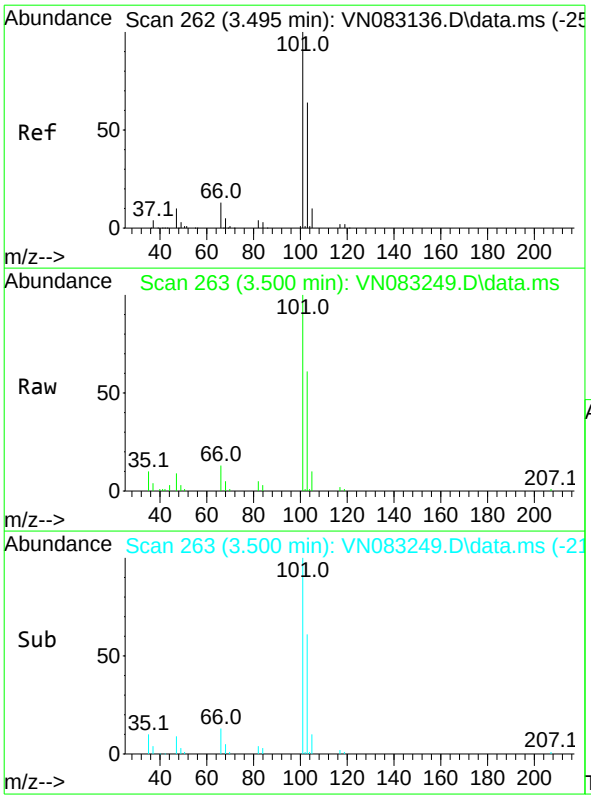


#6
Chloroethane
Concen: 18.091 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.006 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 64 Resp: 23914

Ion	Ratio	Lower	Upper
64	100		
66	31.5	26.6	40.0

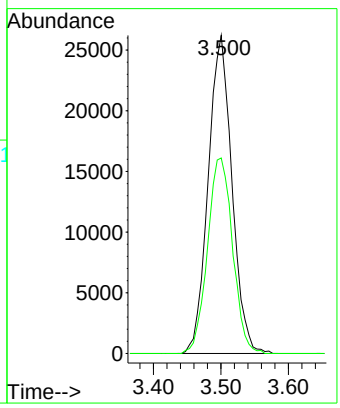




#7
Trichlorofluoromethane
Concen: 18.366 ug/l
RT: 3.500 min Scan# 26
Delta R.T. 0.005 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion:101 Resp: 64104

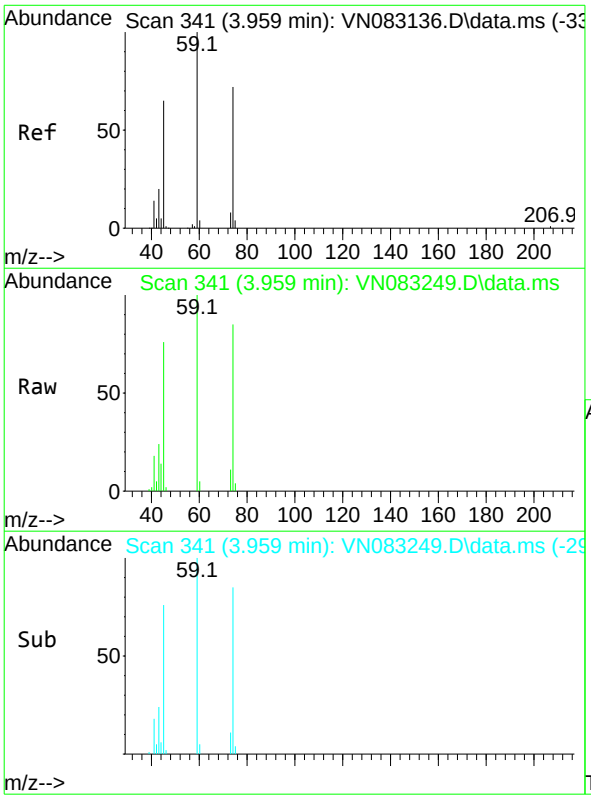
Ion	Ratio	Lower	Upper
101	100		
103	61.5	52.7	79.1



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations
APPROVED

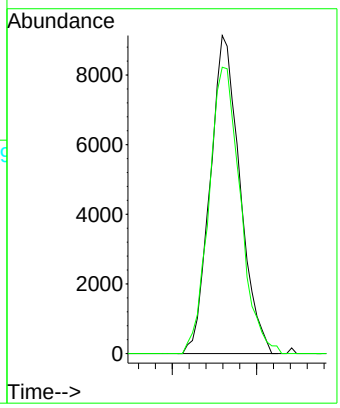
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

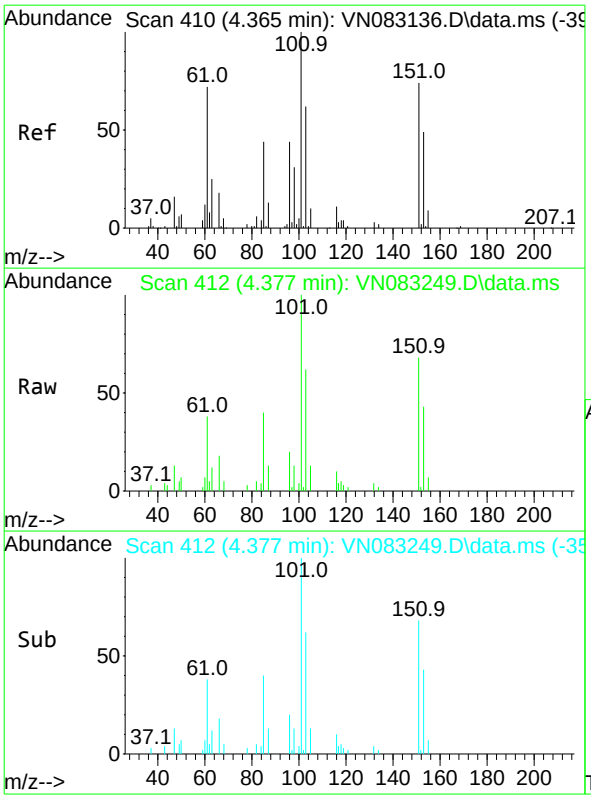


#8
Diethyl Ether
Concen: 17.232 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 74 Resp: 22382

Ion	Ratio	Lower	Upper
74	100		
45	95.1	55.5	166.3

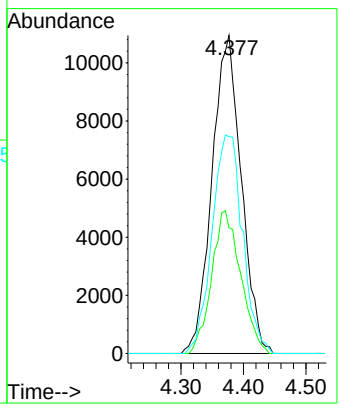




#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.536 ug/l
RT: 4.377 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion:101 Resp: 35670

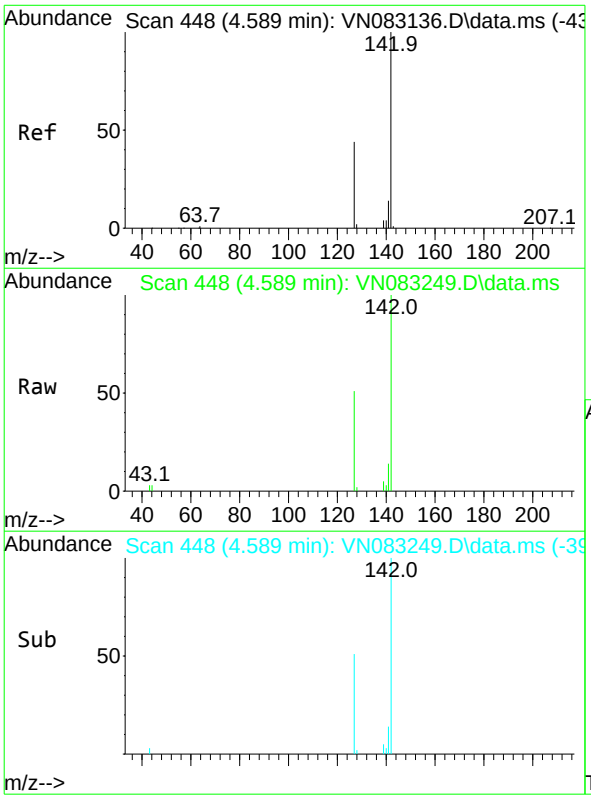
Ion	Ratio	Lower	Upper
101	100		
85	44.5	38.3	57.5
151	71.7	59.3	88.9



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations APPROVED

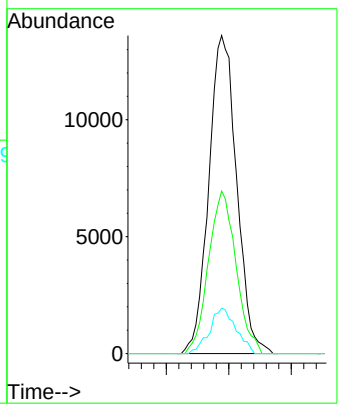
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

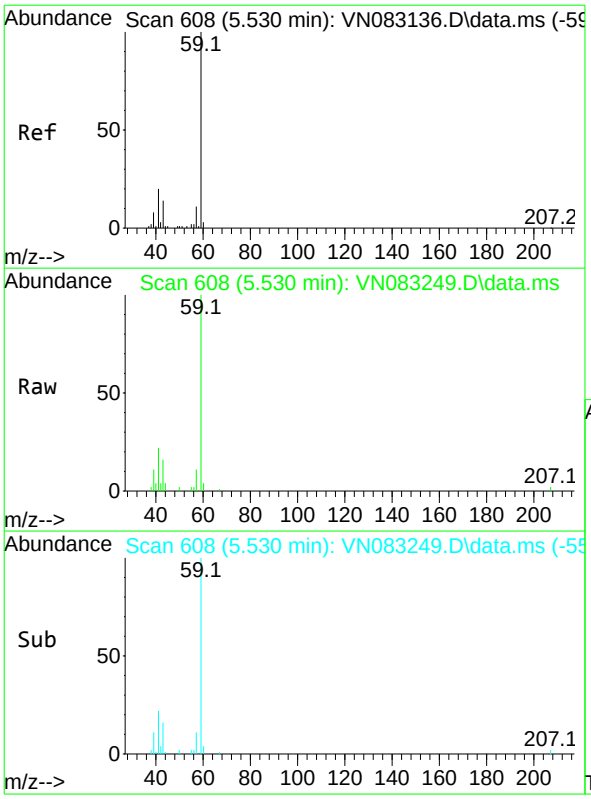


#10
Methyl Iodide
Concen: 16.627 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion:142 Resp: 42091

Ion	Ratio	Lower	Upper
142	100		
127	51.1	37.5	56.3
141	14.3	13.1	19.7

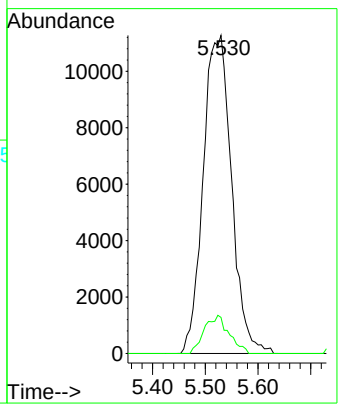




#11
Tert butyl alcohol
Concen: 79.762 ug/l
RT: 5.530 min Scan# 60
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 59 Resp: 42081

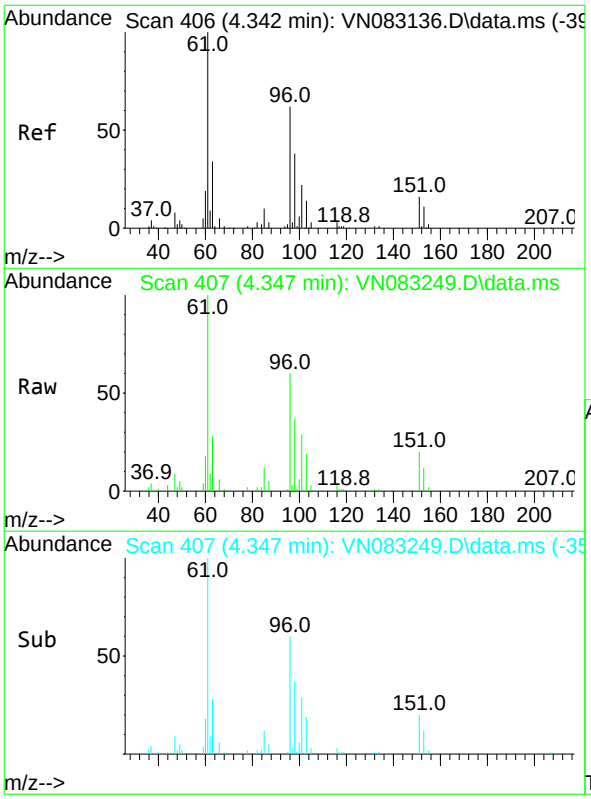
Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.9	13.3



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations
APPROVED

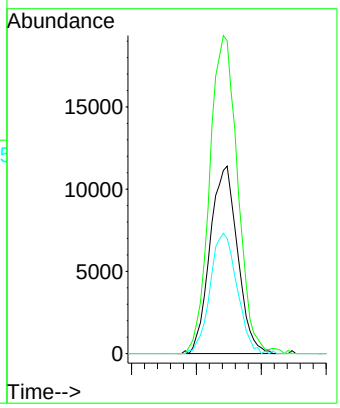
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

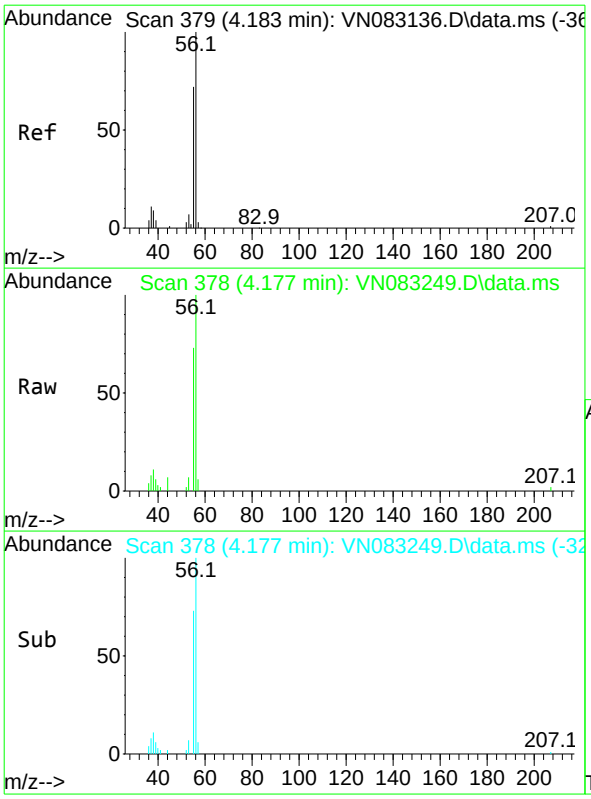


#12
1,1-Dichloroethene
Concen: 17.015 ug/l
RT: 4.347 min Scan# 407
Delta R.T. 0.006 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 96 Resp: 33641

Ion	Ratio	Lower	Upper
96	100		
61	166.9	149.7	224.5
98	61.4	50.1	75.1

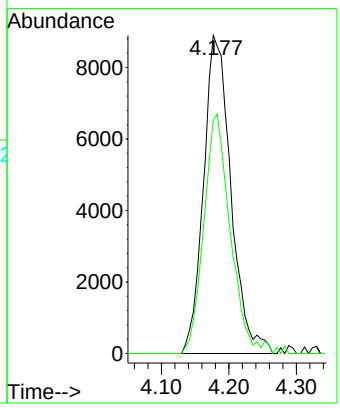




#13
Acrolein
Concen: 72.954 ug/l
RT: 4.177 min Scan# 37
Delta R.T. -0.006 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 56 Resp: 25085

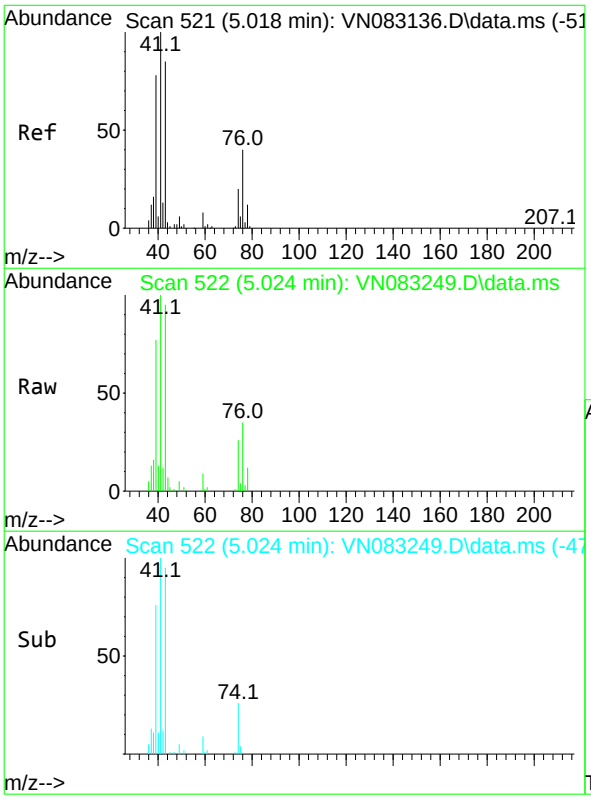
Ion	Ratio	Lower	Upper
56	100		
55	72.9	56.4	84.6



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations
APPROVED

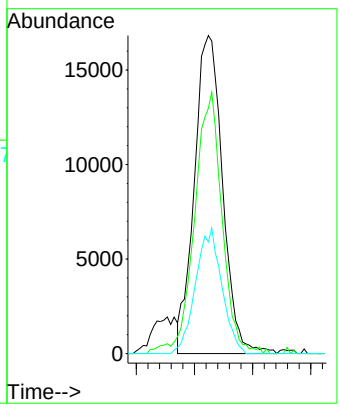
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

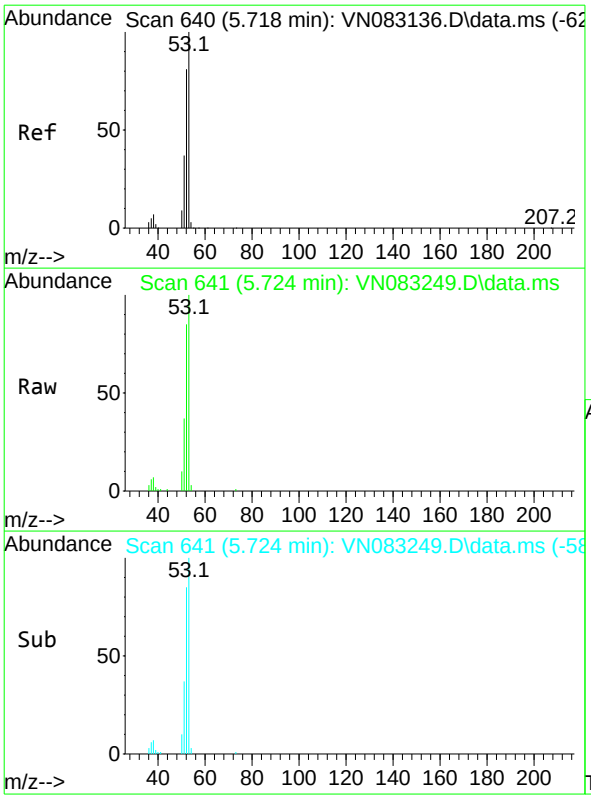


#14
Allyl chloride
Concen: 15.219 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 41 Resp: 56861

Ion	Ratio	Lower	Upper
41	100		
39	79.8	67.8	101.6
76	36.4	25.8	38.8

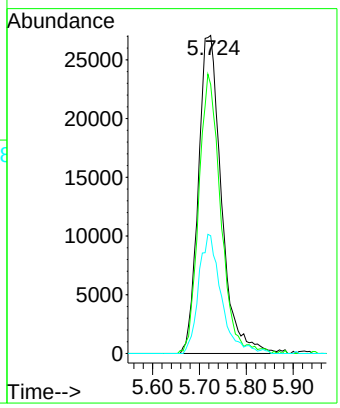




#15
Acrylonitrile
Concen: 85.222 ug/l
RT: 5.724 min Scan# 64
Delta R.T. 0.006 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 53 Resp: 92469

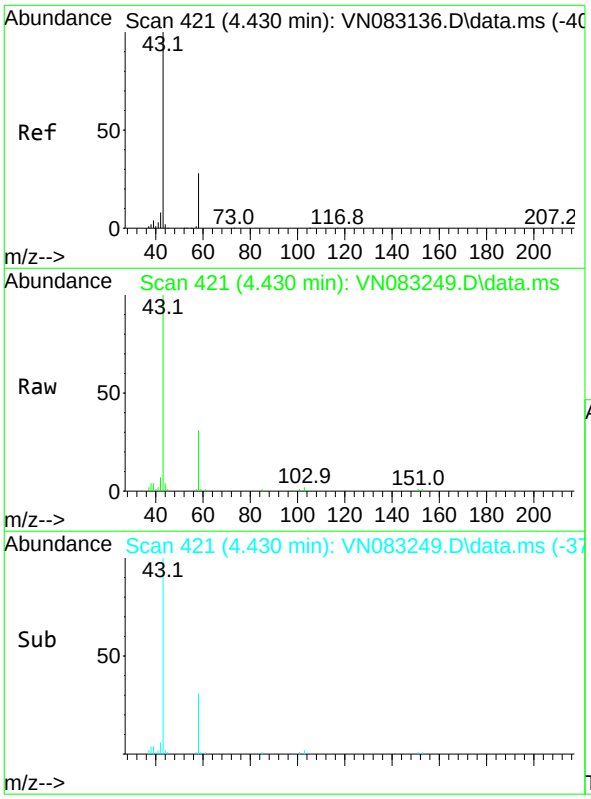
Ion	Ratio	Lower	Upper
53	100		
52	83.6	66.6	100.0
51	36.6	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations
APPROVED

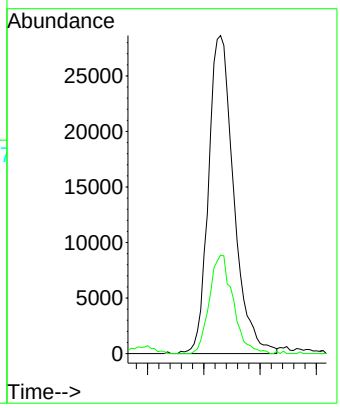
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

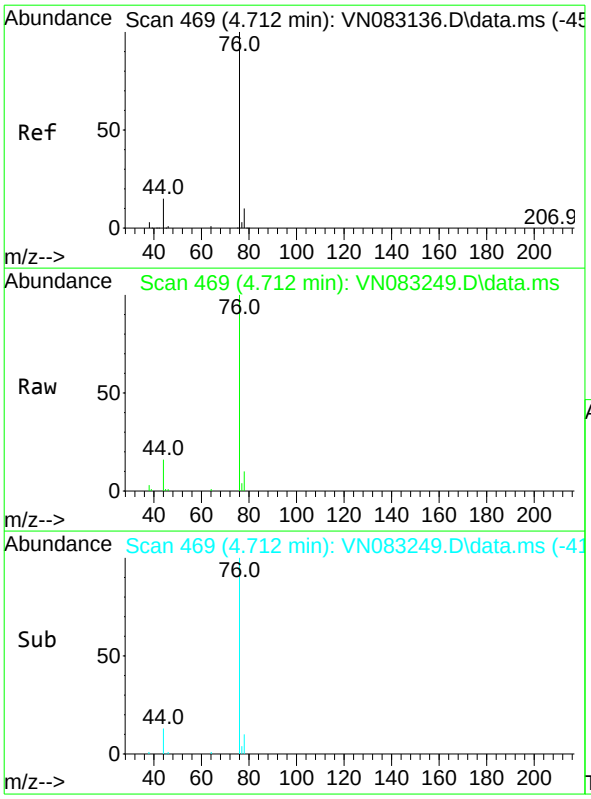


#16
Acetone
Concen: 89.956 ug/l
RT: 4.430 min Scan# 421
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 43 Resp: 89359

Ion	Ratio	Lower	Upper
43	100		
58	31.0	21.8	32.6

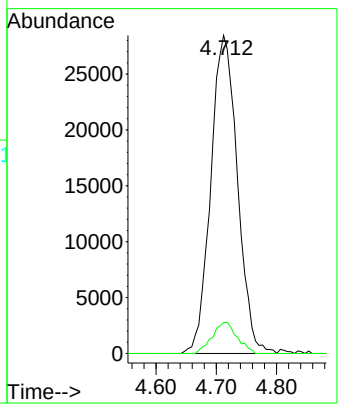




#17
Carbon Disulfide
Concen: 15.135 ug/l
RT: 4.712 min Scan# 46
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 76 Resp: 87555

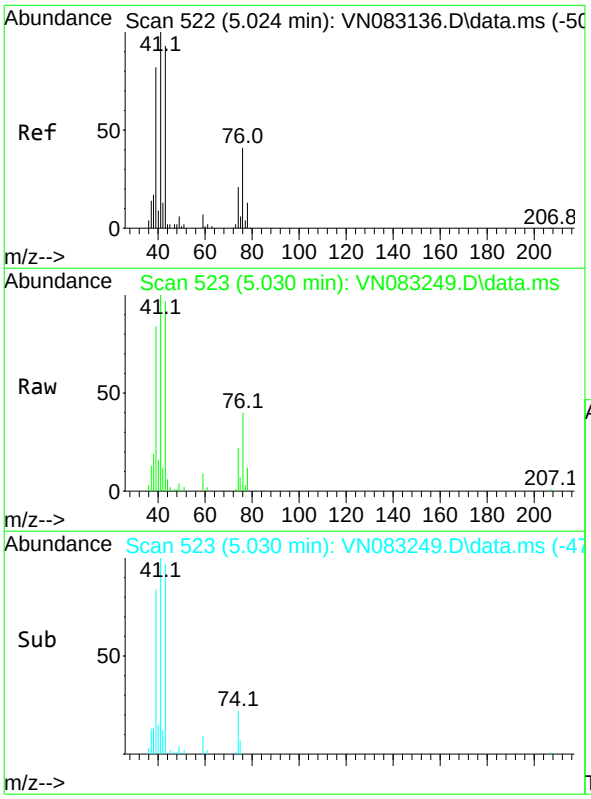
Ion	Ratio	Lower	Upper
76	100		
78	9.7	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations APPROVED

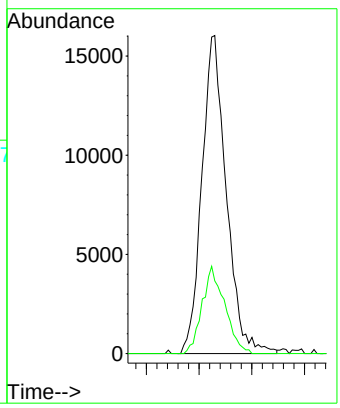
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

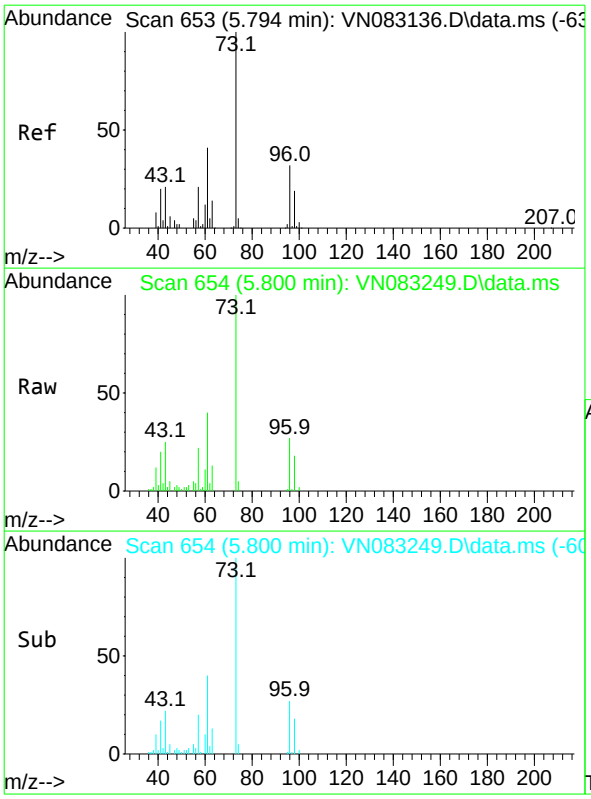


#18
Methyl Acetate
Concen: 17.430 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.006 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 43 Resp: 51588

Ion	Ratio	Lower	Upper
43	100		
74	25.5	16.3	24.5#

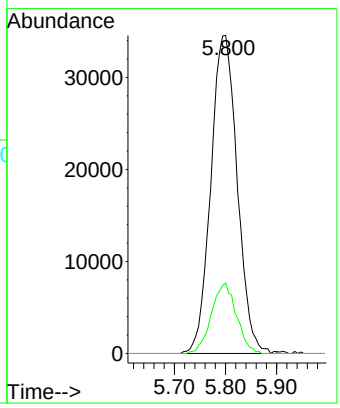




#19
Methyl tert-butyl Ether
Concen: 17.392 ug/l
RT: 5.800 min Scan# 65
Delta R.T. 0.006 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 73 Resp: 124113

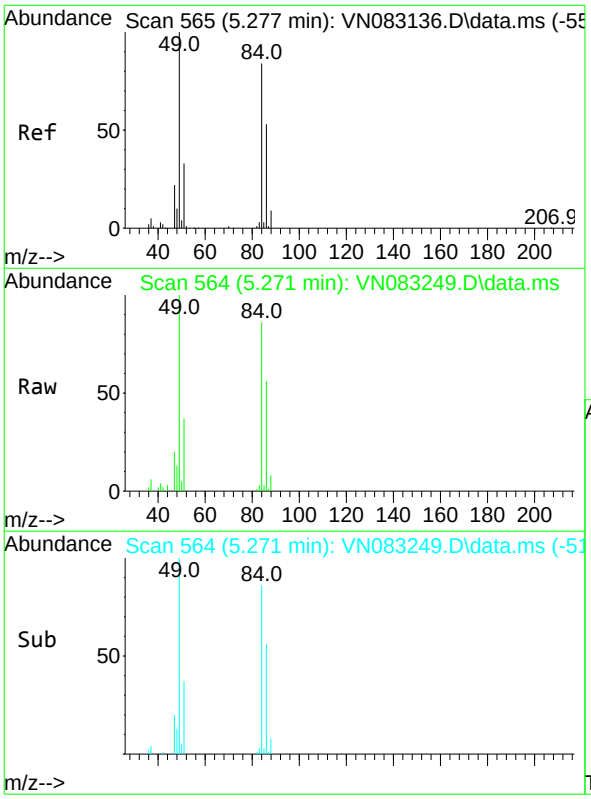
Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.9	26.9



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations APPROVED

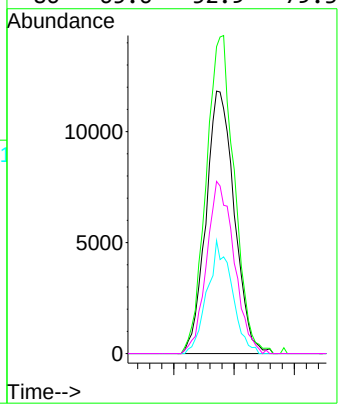
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

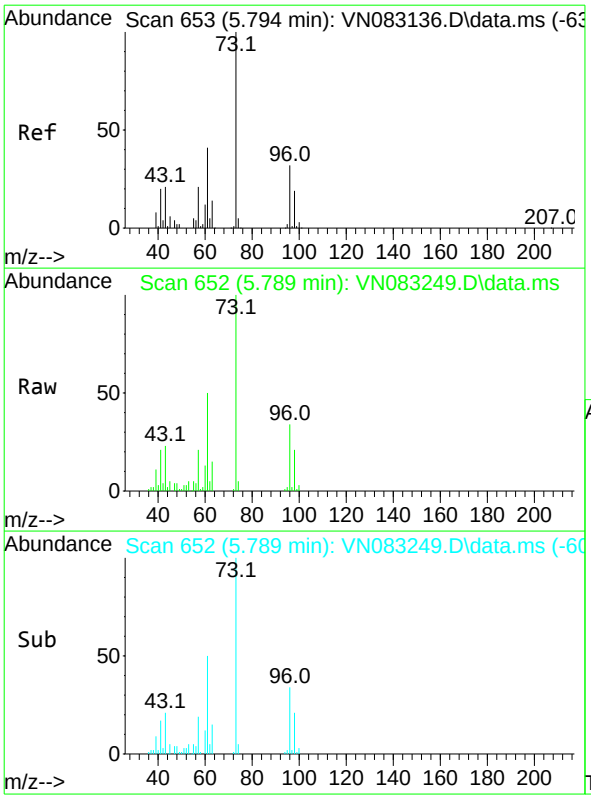


#20
Methylene Chloride
Concen: 16.884 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.006 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 84 Resp: 38601

Ion	Ratio	Lower	Upper
84	100		
49	117.0	119.6	179.4#
51	43.0	34.8	52.2
86	65.6	52.9	79.3

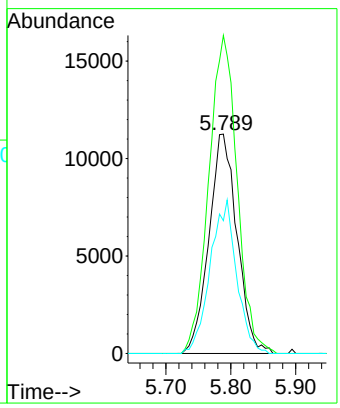




#21
trans-1,2-Dichloroethene
Concen: 16.552 ug/l
RT: 5.789 min Scan# 65
Delta R.T. -0.006 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 96 Resp: 33823

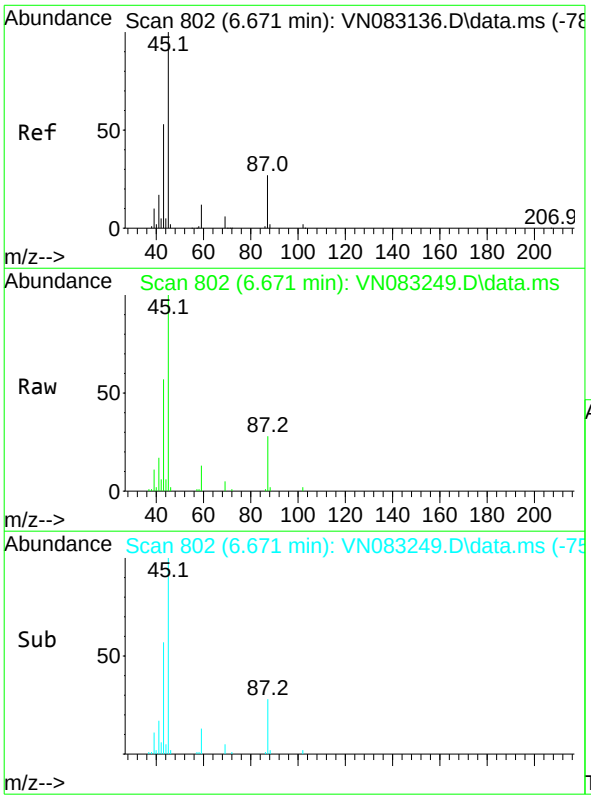
Ion	Ratio	Lower	Upper
96	100		
61	145.0	123.4	185.2
98	60.5	49.3	73.9



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations APPROVED

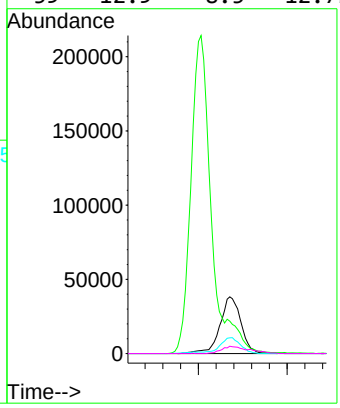
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

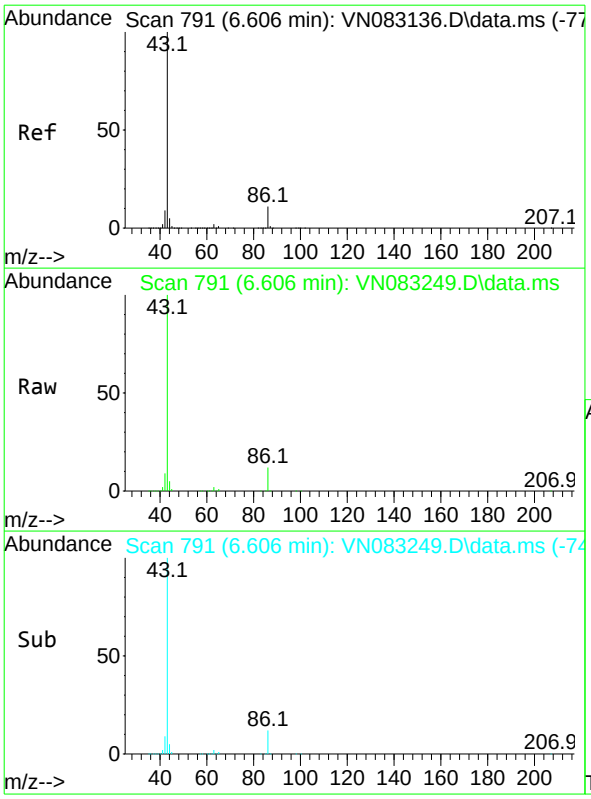


#22
Diisopropyl ether
Concen: 17.842 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 45 Resp: 125303

Ion	Ratio	Lower	Upper
45	100		
43	55.4	44.0	66.0
87	27.8	19.7	29.5
59	12.9	8.5	12.7#

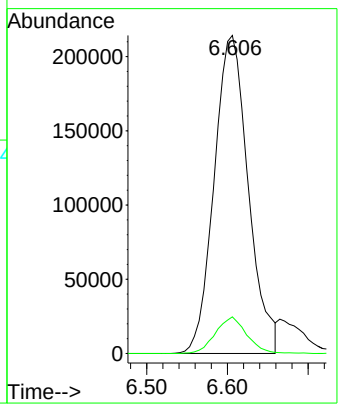




#23
Vinyl Acetate
Concen: 87.595 ug/l m
RT: 6.606 min Scan# 79
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 43 Resp: 630546

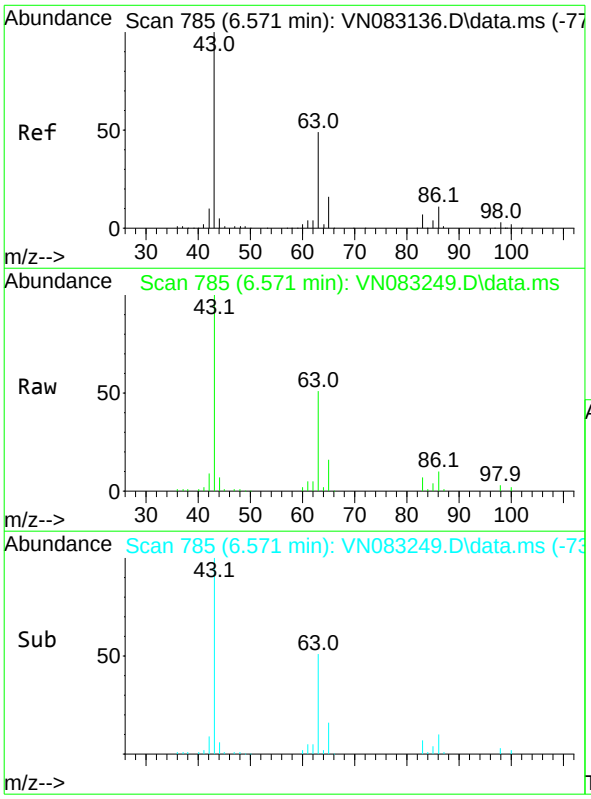
Ion	Ratio	Lower	Upper
43	100		
86	11.5	7.3	10.9#



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations
APPROVED

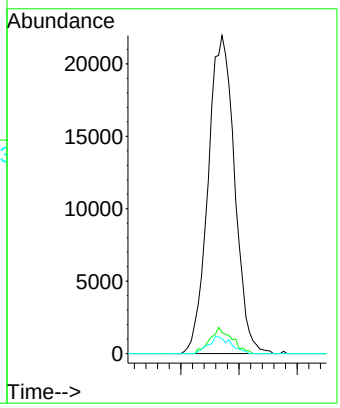
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

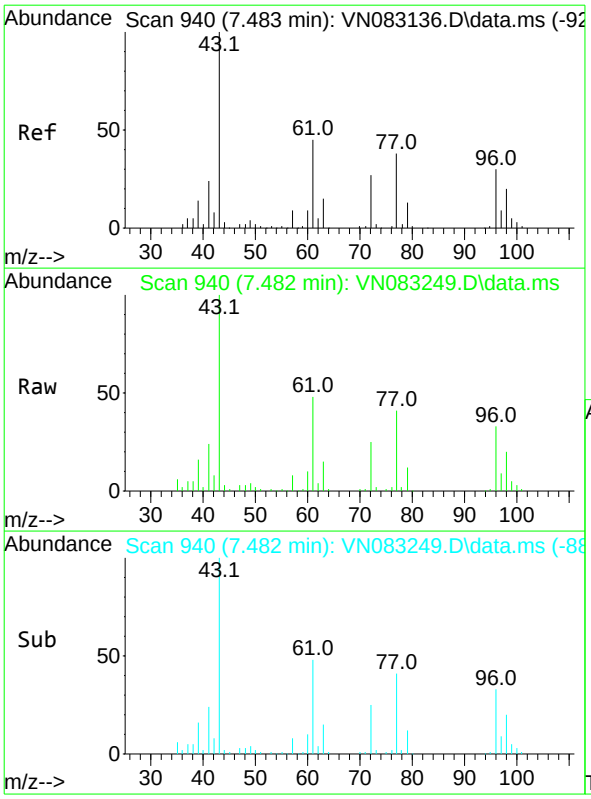


#24
1,1-Dichloroethane
Concen: 18.185 ug/l
RT: 6.571 min Scan# 785
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 63 Resp: 69612

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.3	9.9
100	4.7	2.0	6.0

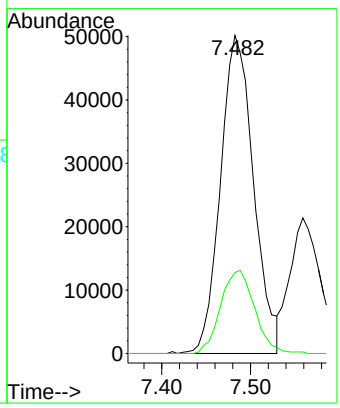




#25
2-Butanone
Concen: 85.282 ug/l
RT: 7.482 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 43 Resp: 130080

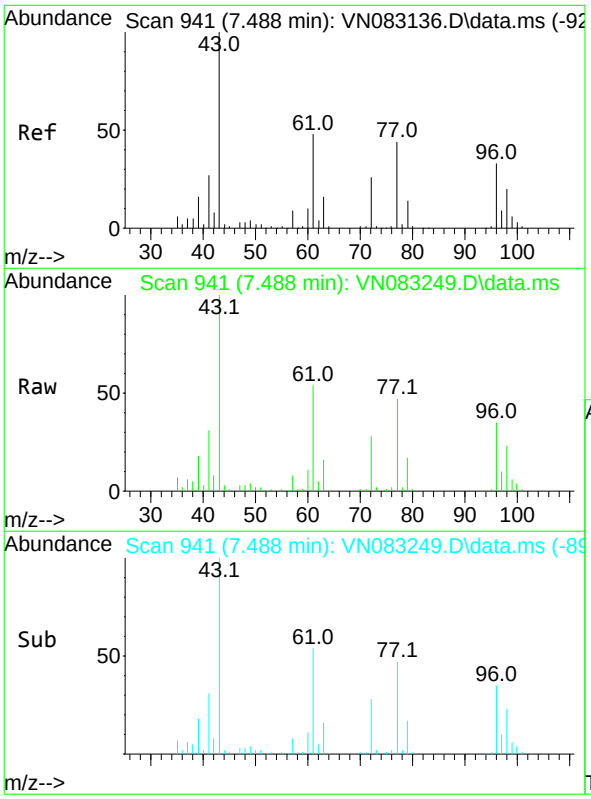
Ion	Ratio	Lower	Upper
43	100		
72	25.4	18.2	27.2



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations APPROVED

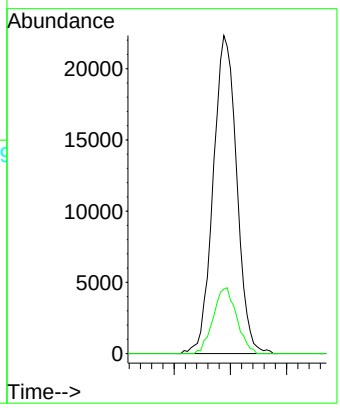
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

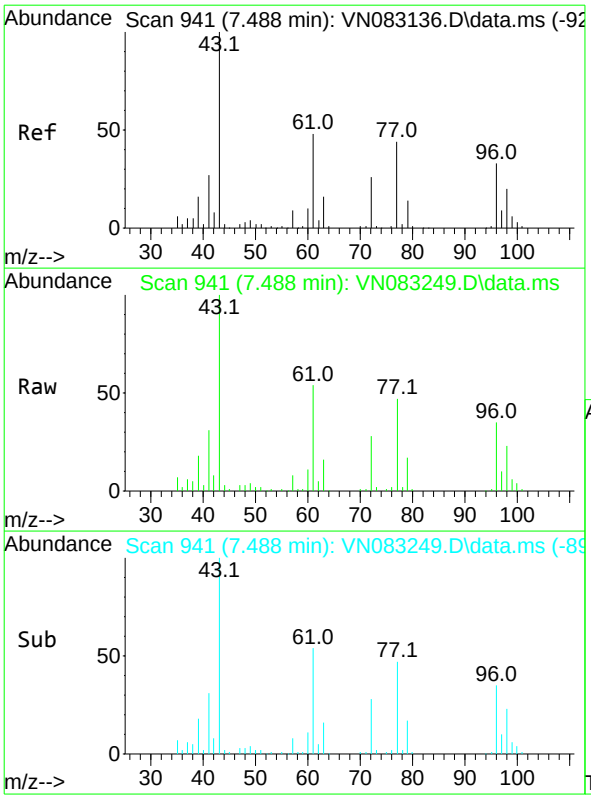


#26
2,2-Dichloropropane
Concen: 18.243 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 77 Resp: 64854

Ion	Ratio	Lower	Upper
77	100		
97	20.6	10.3	30.9

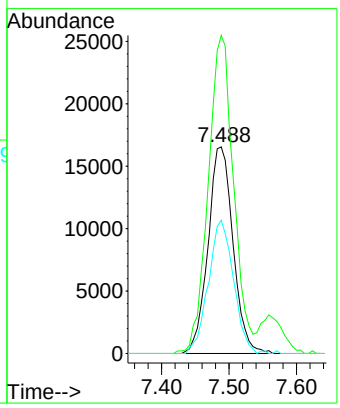




#27
cis-1,2-Dichloroethene
Concen: 17.299 ug/l
RT: 7.488 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 96 Resp: 42656

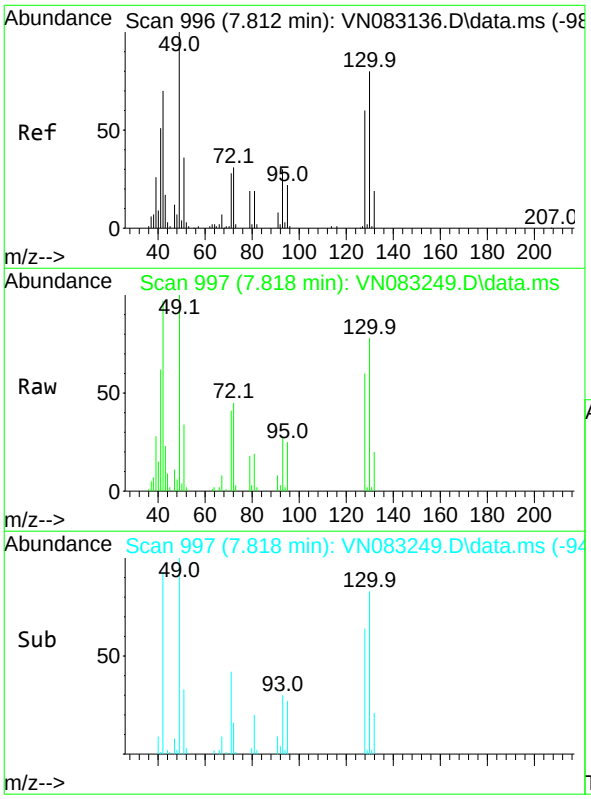
Ion	Ratio	Lower	Upper
96	100		
61	155.7	0.0	329.6
98	64.8	0.0	128.6



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations
APPROVED

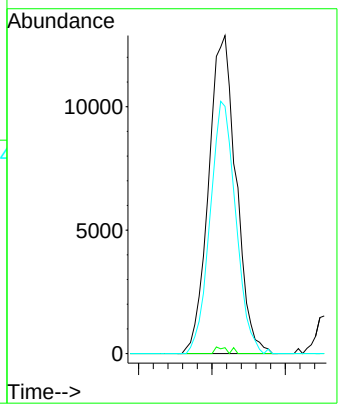
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

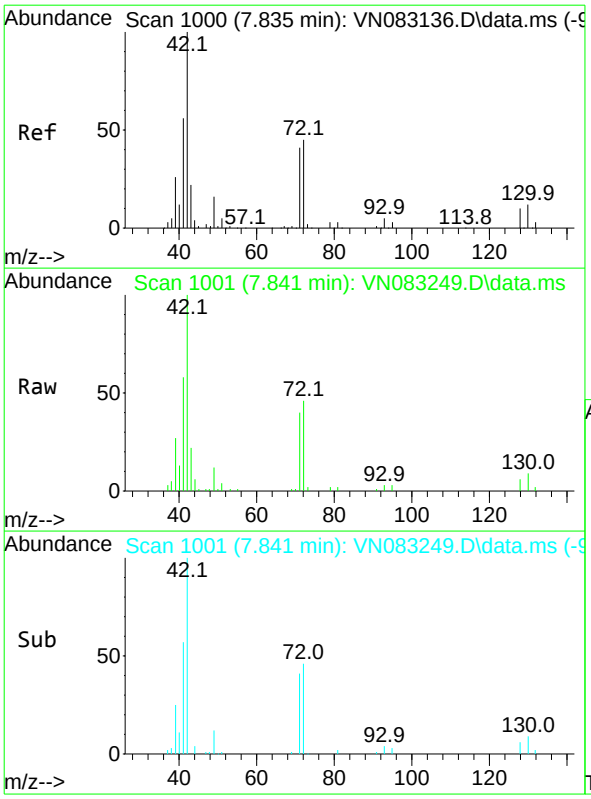


#28
Bromochloromethane
Concen: 21.456 ug/l
RT: 7.818 min Scan# 997
Delta R.T. 0.006 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 49 Resp: 33565

Ion	Ratio	Lower	Upper
49	100		
129	1.0	0.0	3.8
130	74.1	50.5	75.7

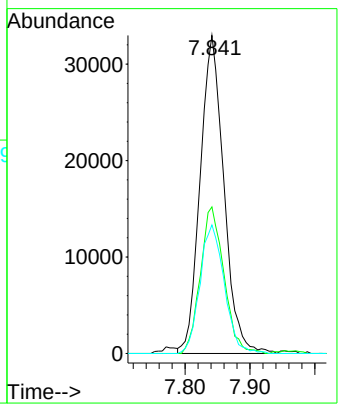




#29
Tetrahydrofuran
Concen: 84.909 ug/l
RT: 7.841 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 42 Resp: 83720

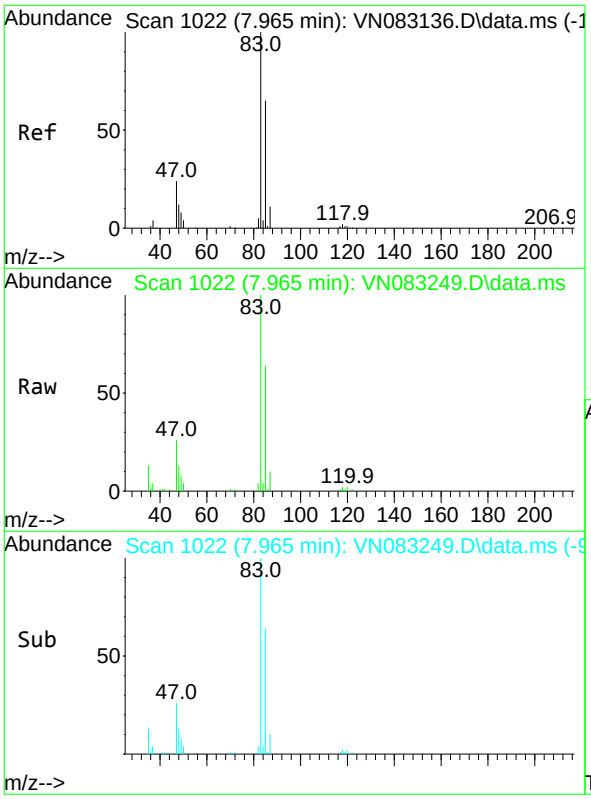
Ion	Ratio	Lower	Upper
42	100		
72	45.9	30.0	45.0#
71	41.5	28.3	42.5



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations
APPROVED

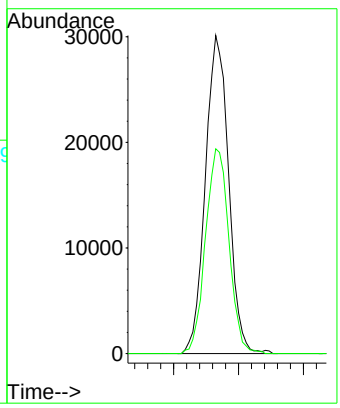
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

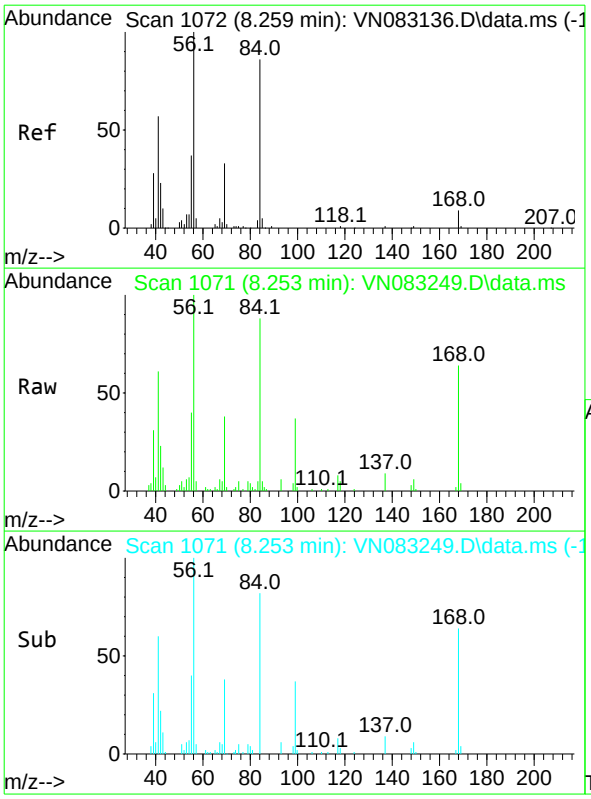


#30
Chloroform
Concen: 18.831 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 83 Resp: 74889

Ion	Ratio	Lower	Upper
83	100		
85	64.4	50.9	76.3

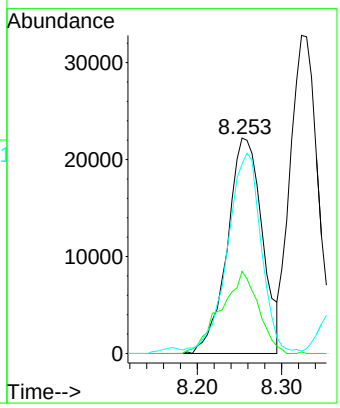




#31
Cyclohexane
Concen: 16.950 ug/l
RT: 8.253 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 56 Resp: 63769

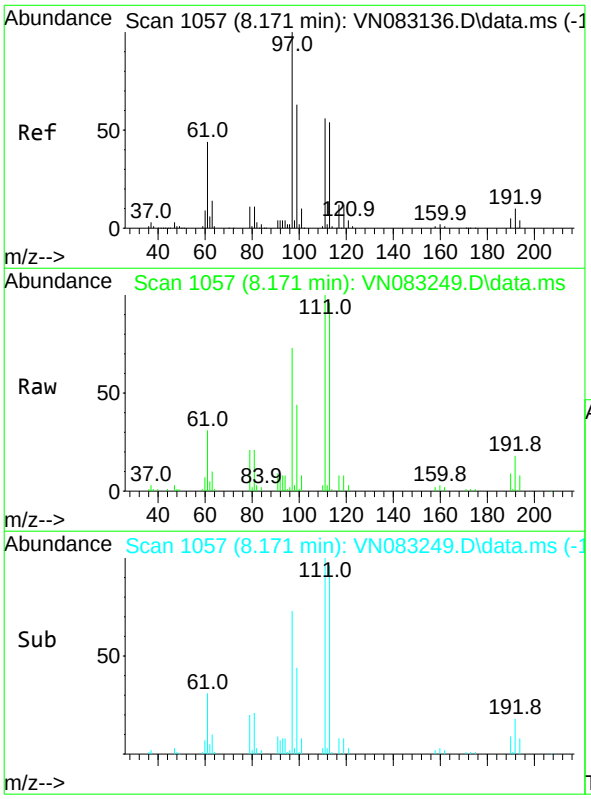
Ion	Ratio	Lower	Upper
56	100		
69	38.1	24.5	36.7#
84	85.8	66.0	99.0



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations
APPROVED

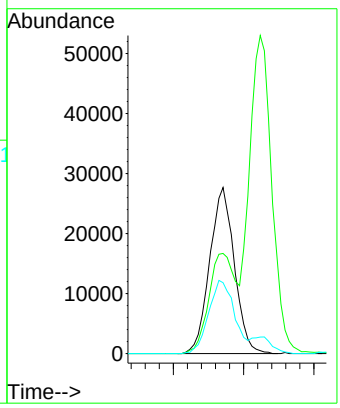
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

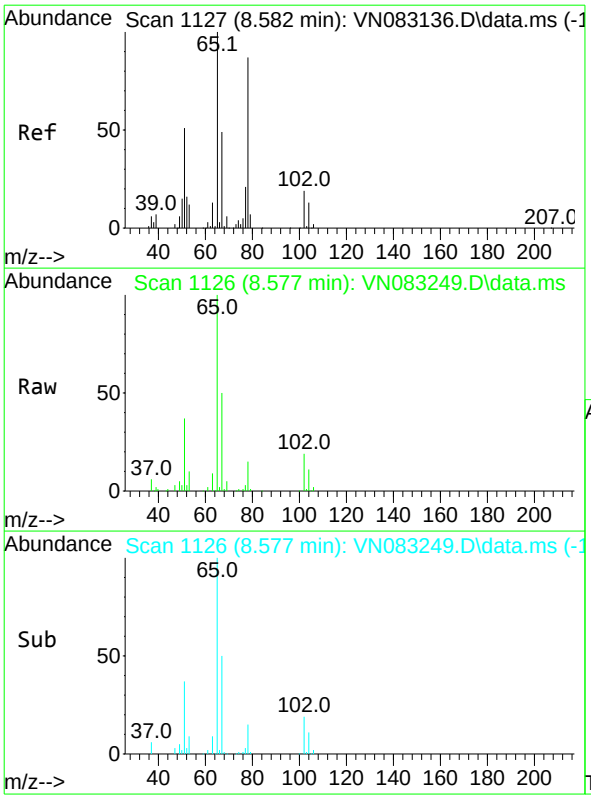


#32
1,1,1-Trichloroethane
Concen: 17.911 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 97 Resp: 67426

Ion	Ratio	Lower	Upper
97	100		
99	66.7	52.0	78.0
61	46.0	42.1	63.1

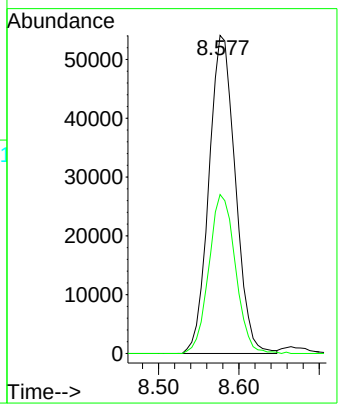




#33
1,2-Dichloroethane-d4
Concen: 48.653 ug/l
RT: 8.577 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 65 Resp: 123513

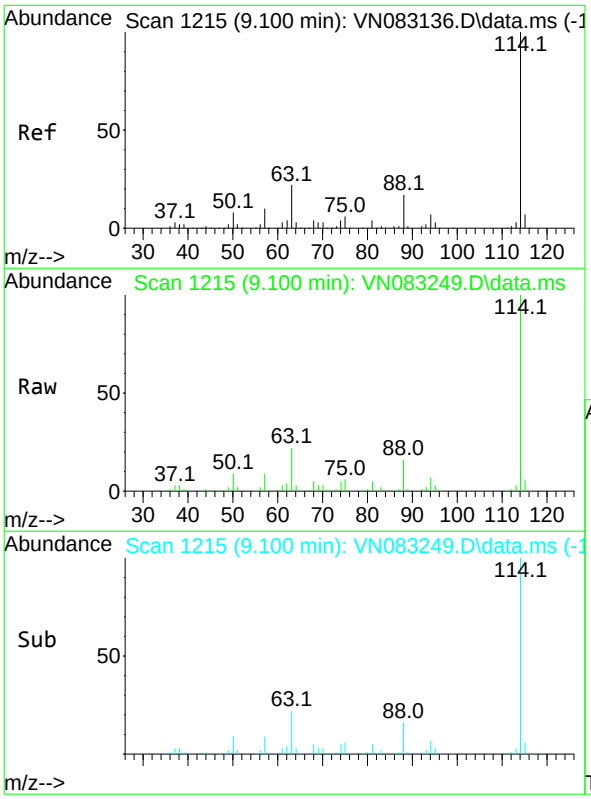
Ion	Ratio	Lower	Upper
65	100		
67	50.2	0.0	104.4



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations APPROVED

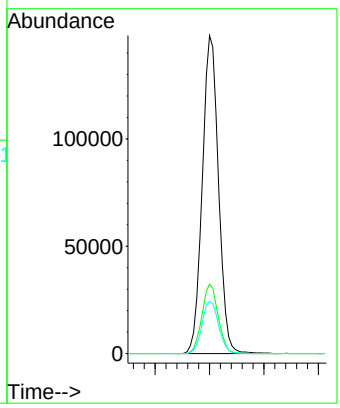
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

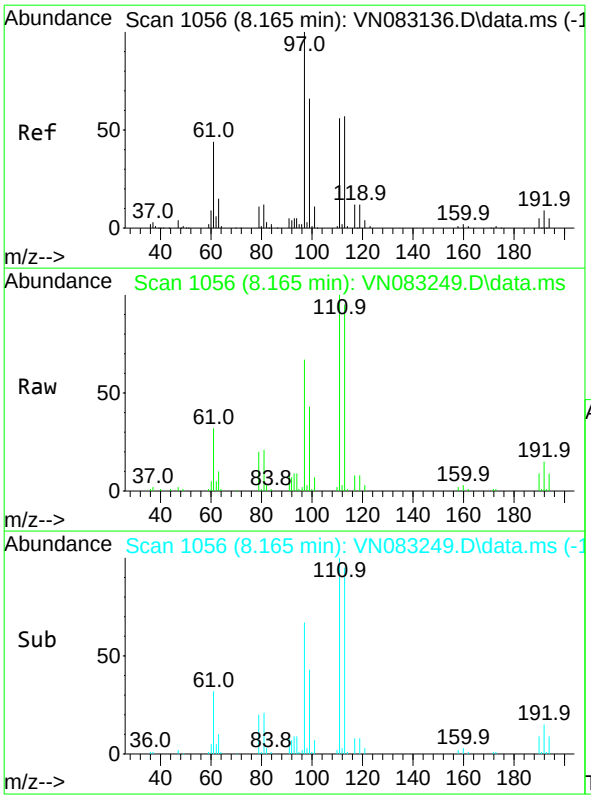


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion:114 Resp: 306441

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	44.6
88	16.4	0.0	31.4

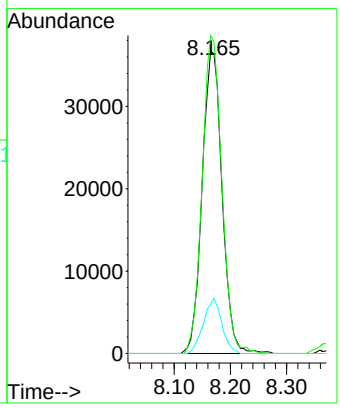




#35
Dibromofluoromethane
Concen: 47.355 ug/l
RT: 8.165 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion:113 Resp: 90577

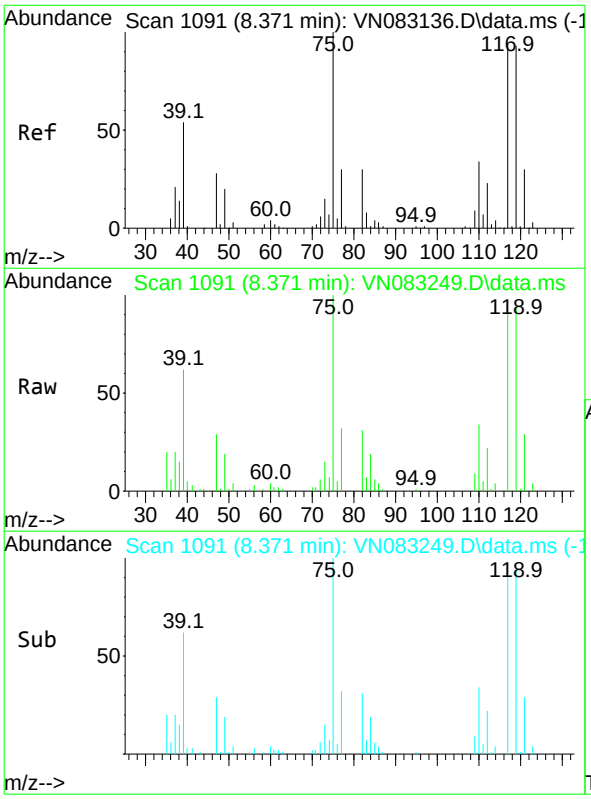
Ion	Ratio	Lower	Upper
113	100		
111	103.3	82.4	123.6
192	16.9	14.9	22.3



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations
APPROVED

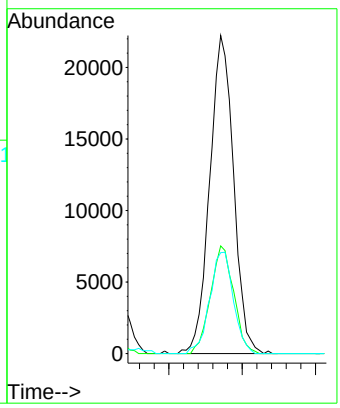
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

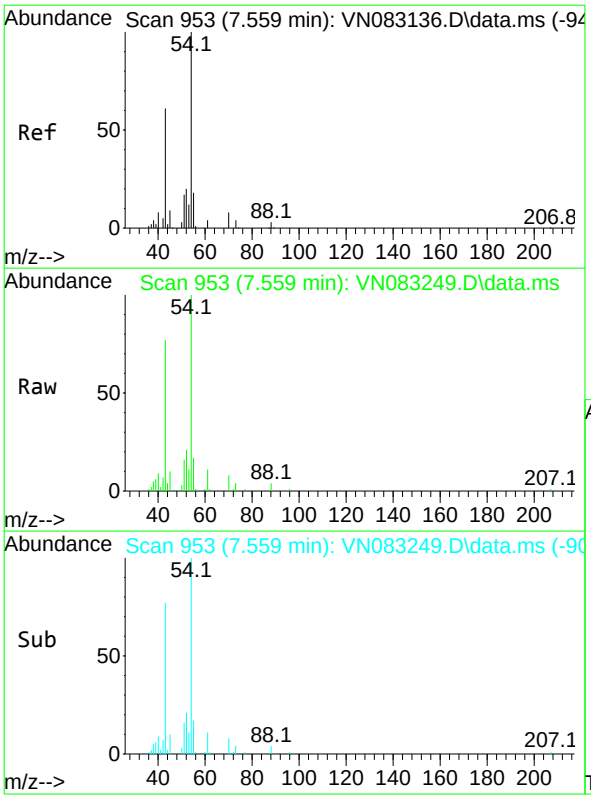


#36
1,1-Dichloropropene
Concen: 17.335 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 75 Resp: 50157

Ion	Ratio	Lower	Upper
75	100		
110	32.9	16.3	48.9
77	31.7	24.6	37.0





#37
Ethyl Acetate
Concen: 16.620 ug/l
RT: 7.559 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

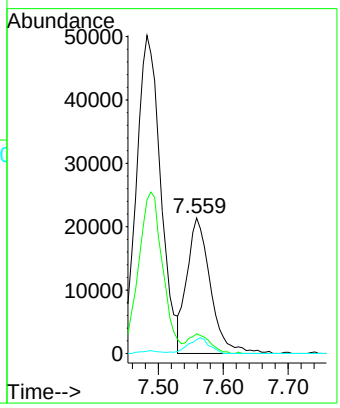
Tgt Ion: 43 Resp: 53843

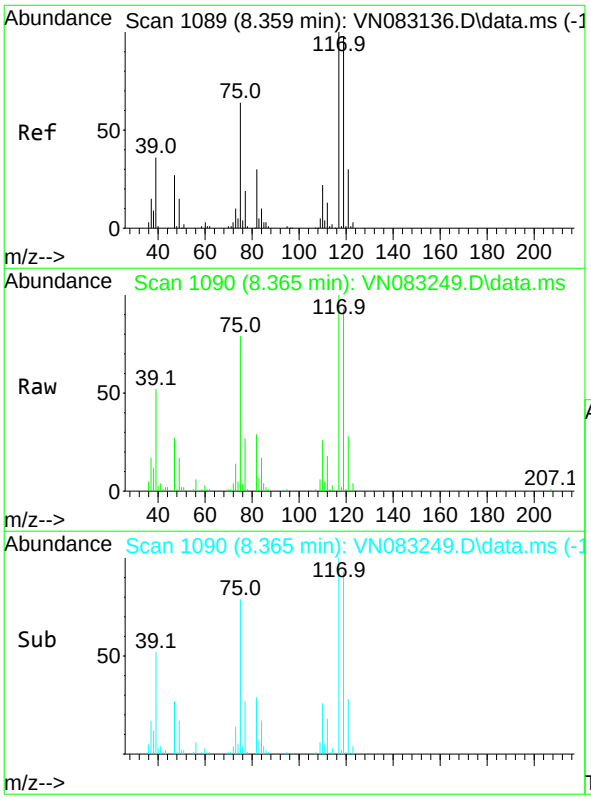
Ion	Ratio	Lower	Upper
43	100		
61	13.7	9.3	13.9
70	10.4	7.0	10.6

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

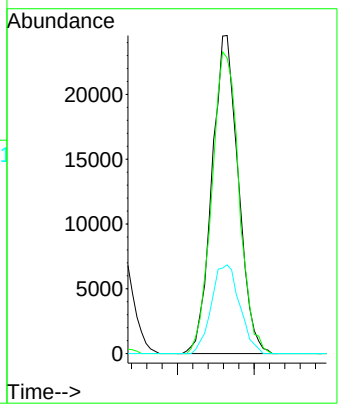


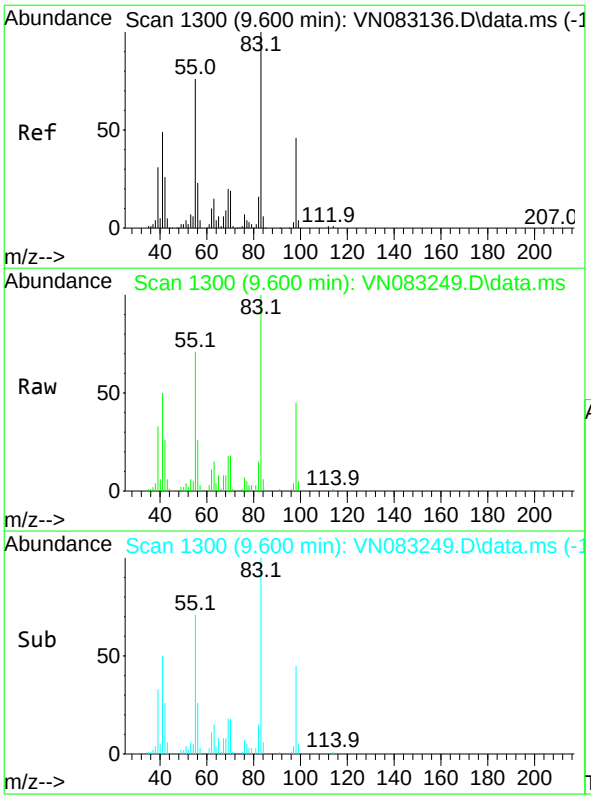


#38
Carbon Tetrachloride
Concen: 17.983 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.006 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion:117 Resp: 58607

Ion	Ratio	Lower	Upper
117	100		
119	92.9	74.9	112.3
121	27.9	24.3	36.5





#39
Methylcyclohexane
Concen: 16.900 ug/l
RT: 9.600 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

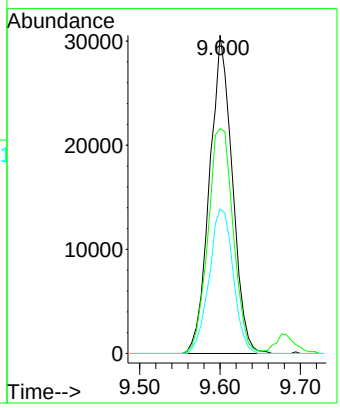
Tgt Ion: 83 Resp: 60060

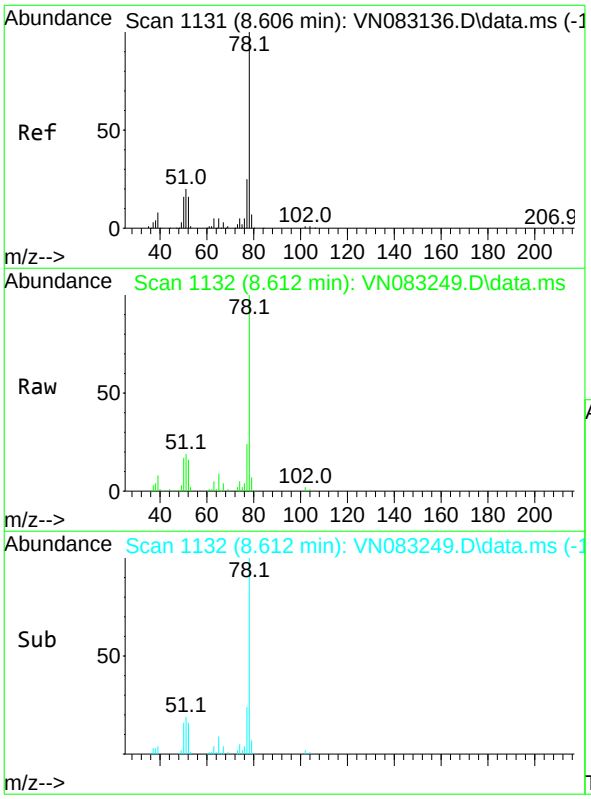
Ion	Ratio	Lower	Upper
83	100		
55	70.7	66.4	99.6
98	45.4	40.7	61.1

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

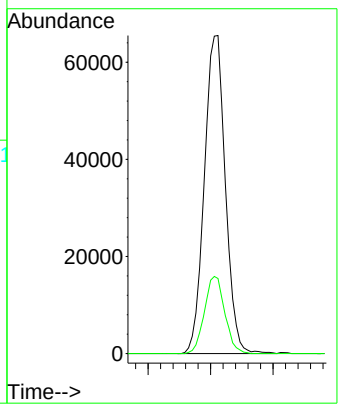


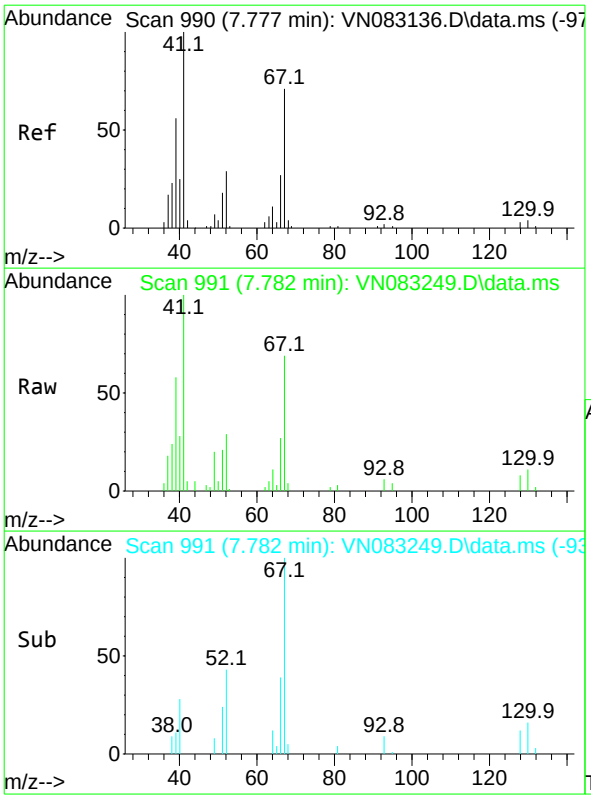


#40
Benzene
Concen: 17.779 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 78 Resp: 153249

Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.0	28.4

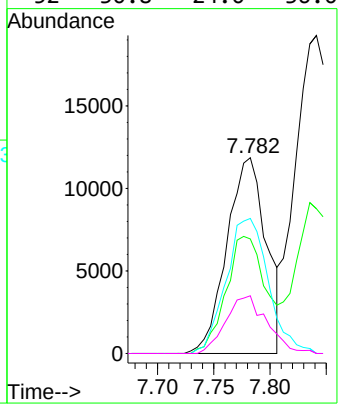




#41
Methacrylonitrile
Concen: 15.749 ug/l
RT: 7.782 min Scan# 99
Delta R.T. 0.006 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 41 Resp: 29010

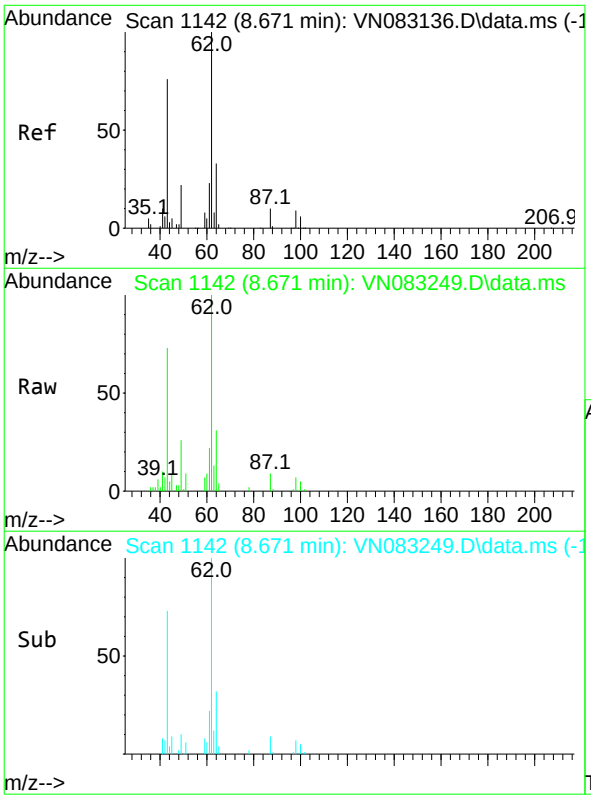
Ion	Ratio	Lower	Upper
41	100		
39	59.7	45.5	68.3
67	73.7	50.5	75.7
52	30.8	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations APPROVED

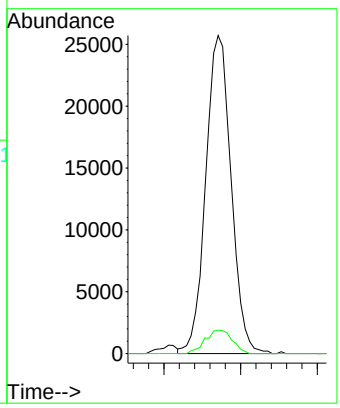
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

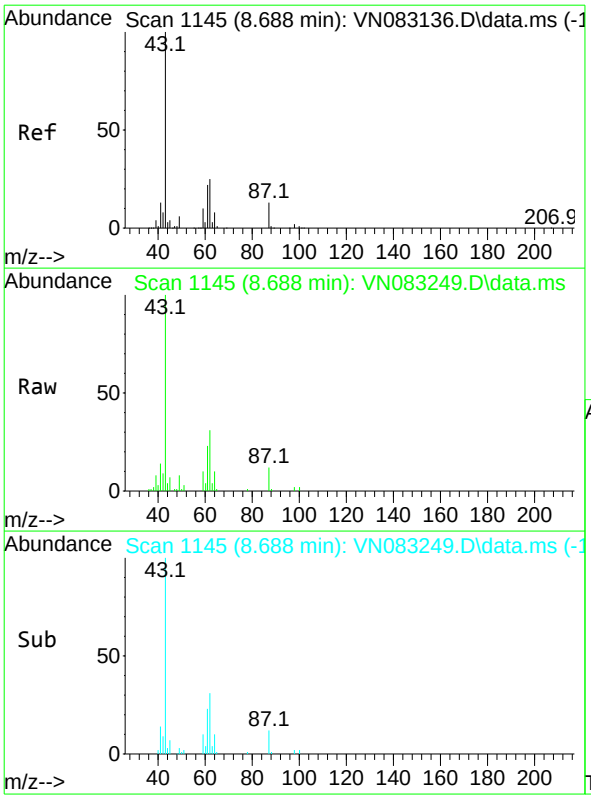


#42
1,2-Dichloroethane
Concen: 18.814 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 62 Resp: 59075

Ion	Ratio	Lower	Upper
62	100		
98	7.9	0.0	15.8

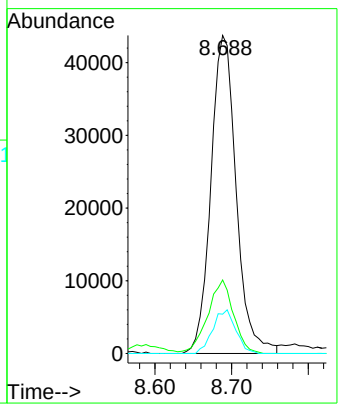




#43
Isopropyl Acetate
Concen: 16.396 ug/l
RT: 8.688 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 43 Resp: 100348

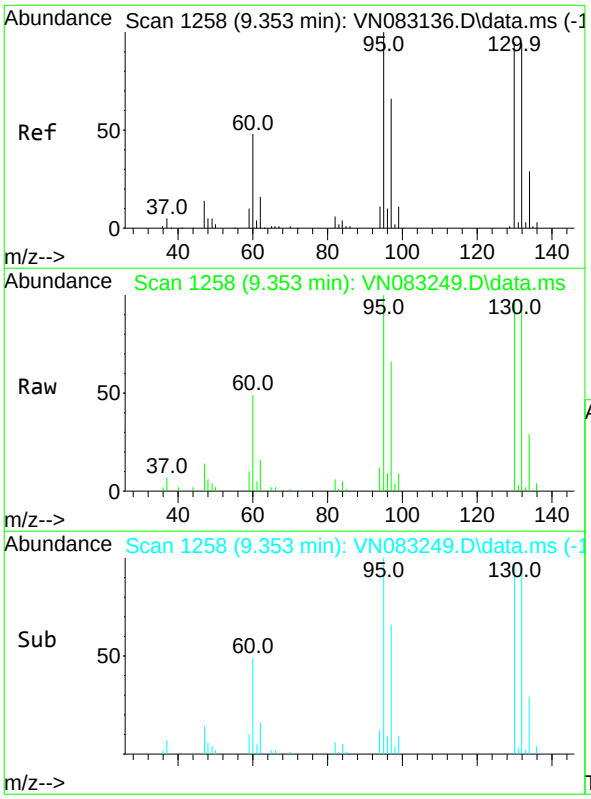
Ion	Ratio	Lower	Upper
43	100		
61	23.6	17.8	26.6
87	12.4	8.2	12.2#



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations
APPROVED

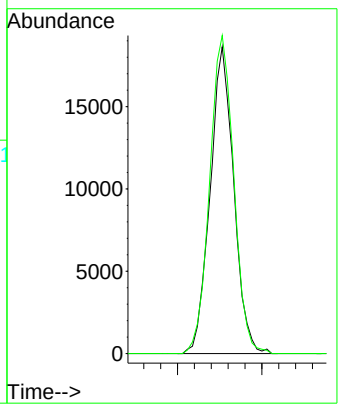
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

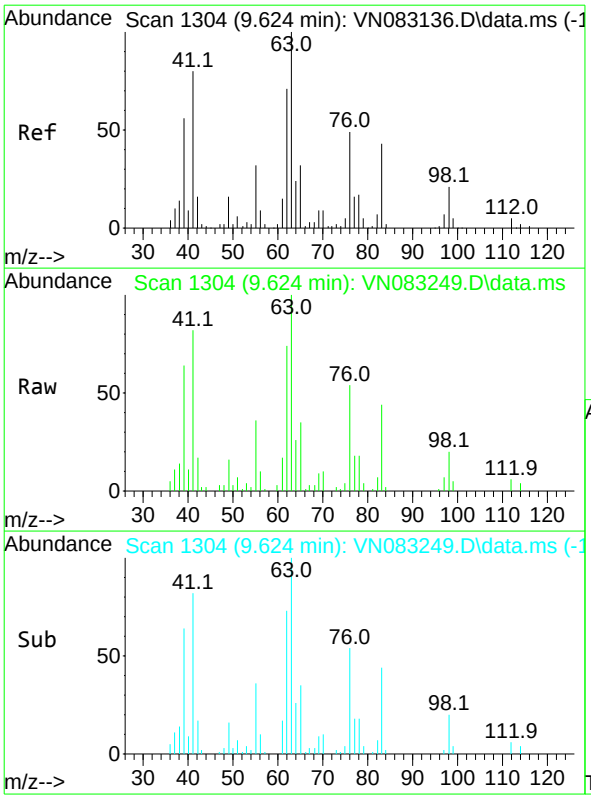


#44
Trichloroethene
Concen: 17.647 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion:130 Resp: 36205

Ion	Ratio	Lower	Upper
130	100		
95	103.7	0.0	197.8

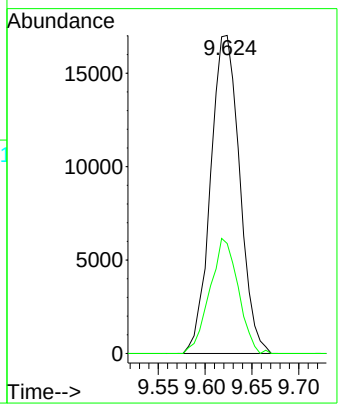




#45
1,2-Dichloropropane
Concen: 17.949 ug/l
RT: 9.624 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 63 Resp: 36725

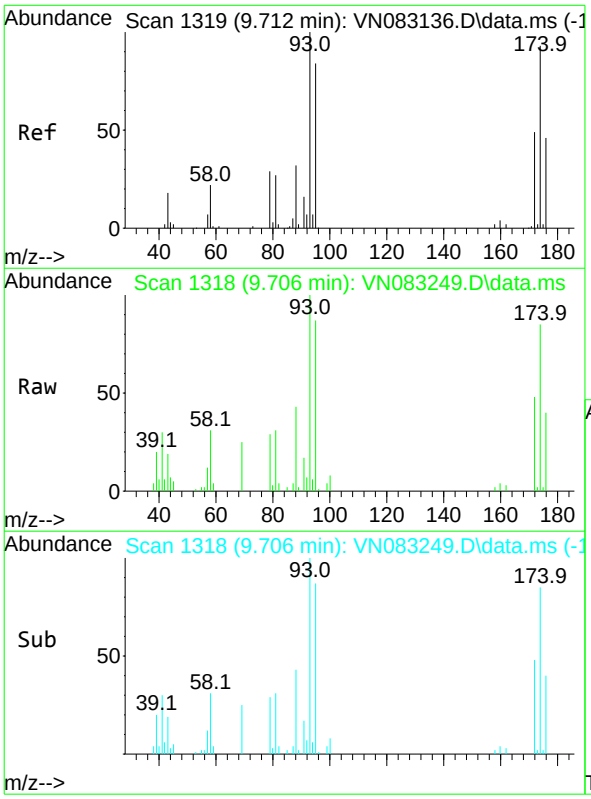
Ion	Ratio	Lower	Upper
63	100		
65	34.6	24.4	36.6



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations APPROVED

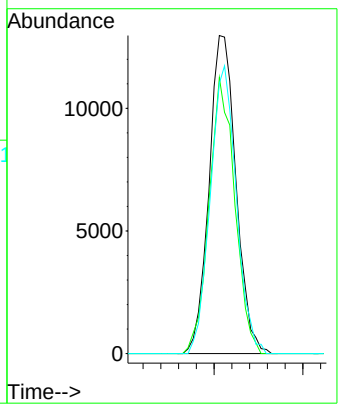
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

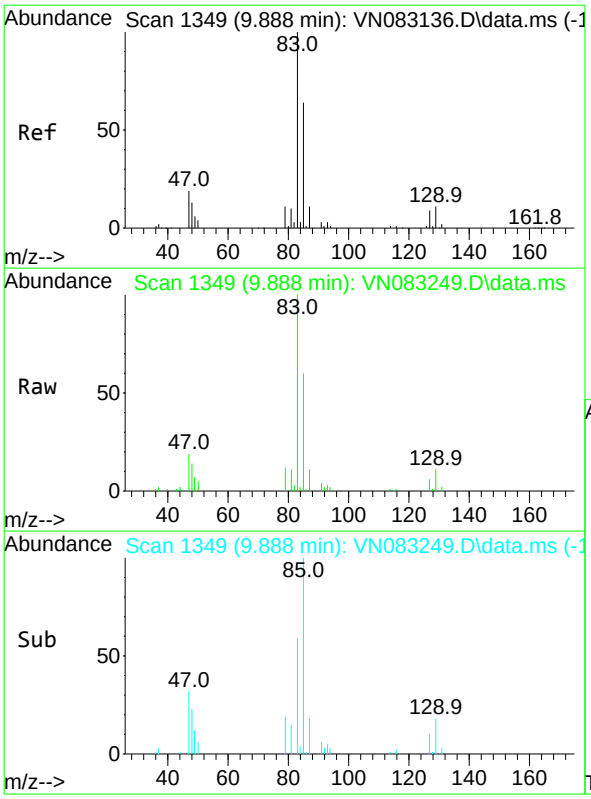


#46
Dibromomethane
Concen: 18.679 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.006 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 93 Resp: 27355

Ion	Ratio	Lower	Upper
93	100		
95	82.7	65.8	98.6
174	87.1	71.7	107.5

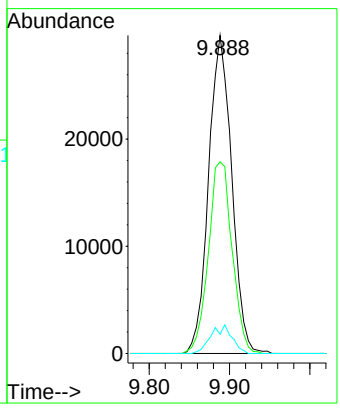




#47
Bromodichloromethane
Concen: 18.024 ug/l
RT: 9.888 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 83 Resp: 59270

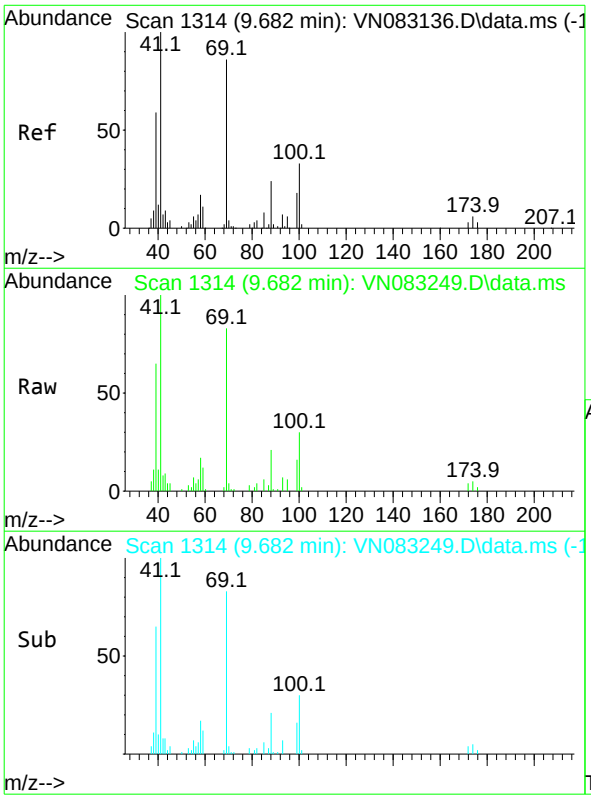
Ion	Ratio	Lower	Upper
83	100		
85	60.3	51.1	76.7
127	6.1	7.2	10.8#



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations APPROVED

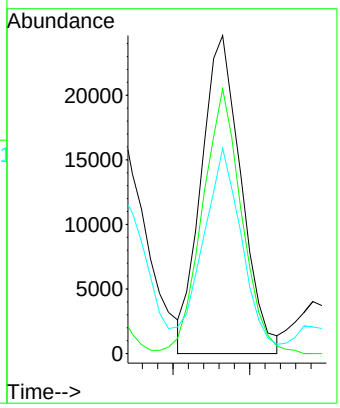
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

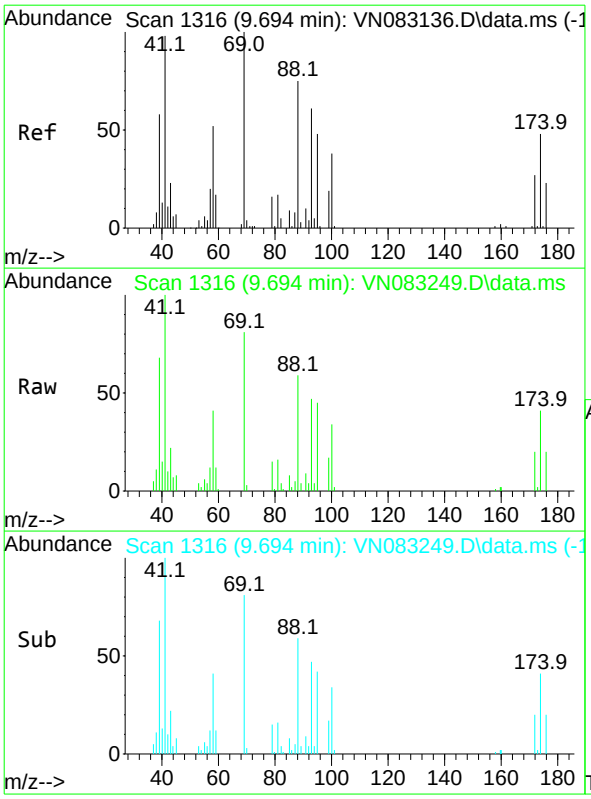


#48
Methyl methacrylate
Concen: 16.611 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 41 Resp: 44491

Ion	Ratio	Lower	Upper
41	100		
69	81.8	56.3	84.5
39	64.2	50.3	75.5

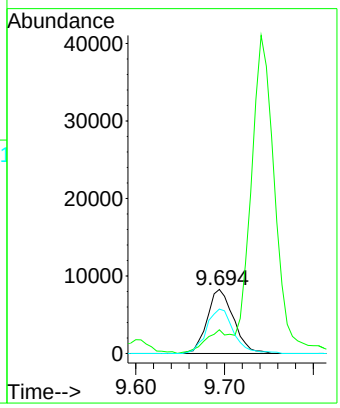




#49
1,4-Dioxane
Concen: 353.407 ug/l
RT: 9.694 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 88 Resp: 17077

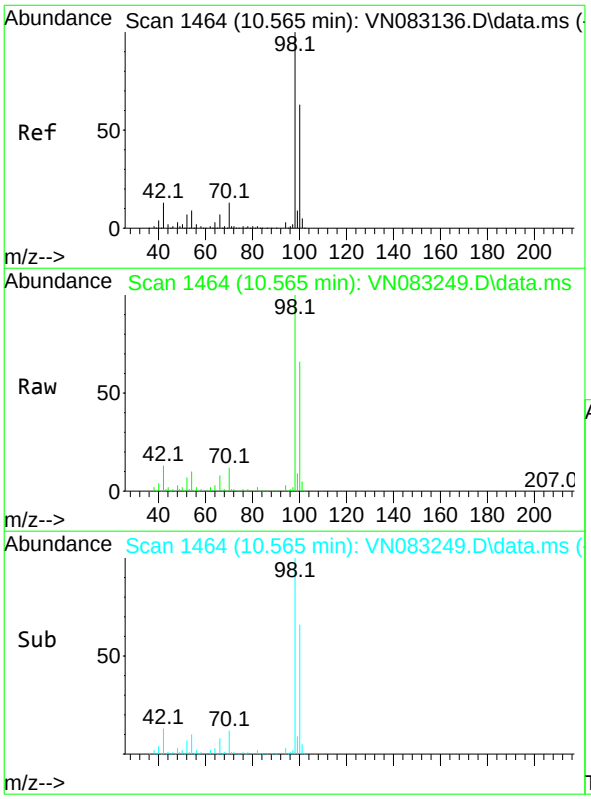
Ion	Ratio	Lower	Upper
88	100		
43	27.9	27.8	41.8
58	71.4	59.4	89.0



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations APPROVED

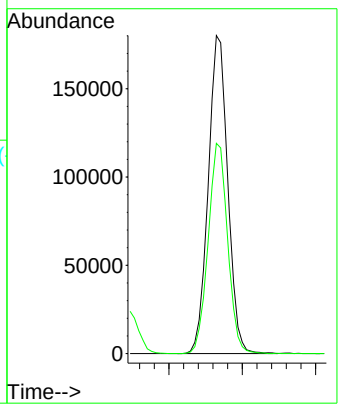
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

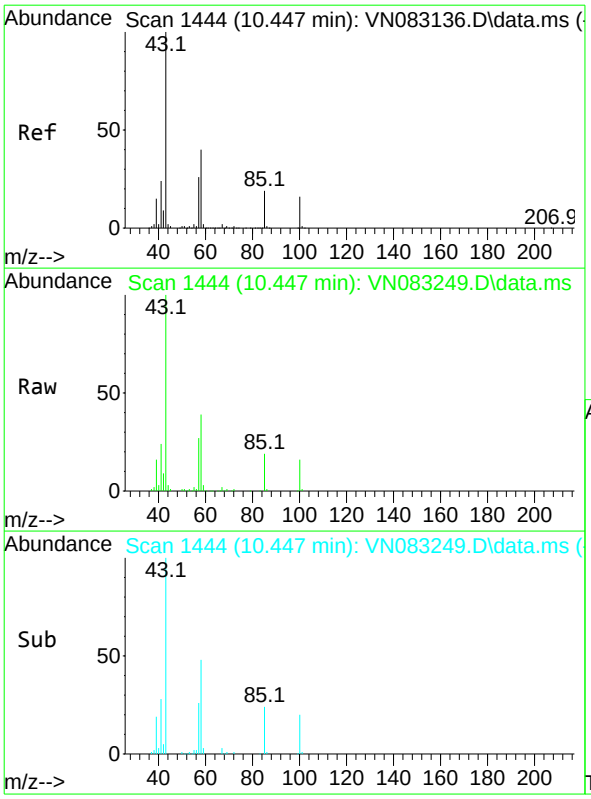


#50
Toluene-d8
Concen: 46.686 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 98 Resp: 333102

Ion	Ratio	Lower	Upper
98	100		
100	66.0	51.5	77.3





#51
4-Methyl-2-Pentanone
Concen: 89.113 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

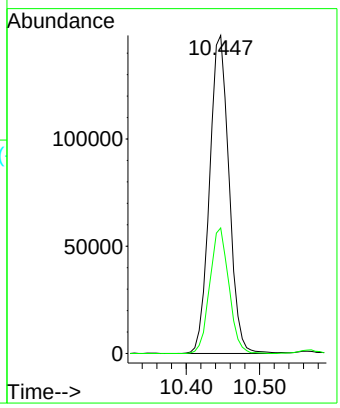
Tgt Ion: 43 Resp: 273004

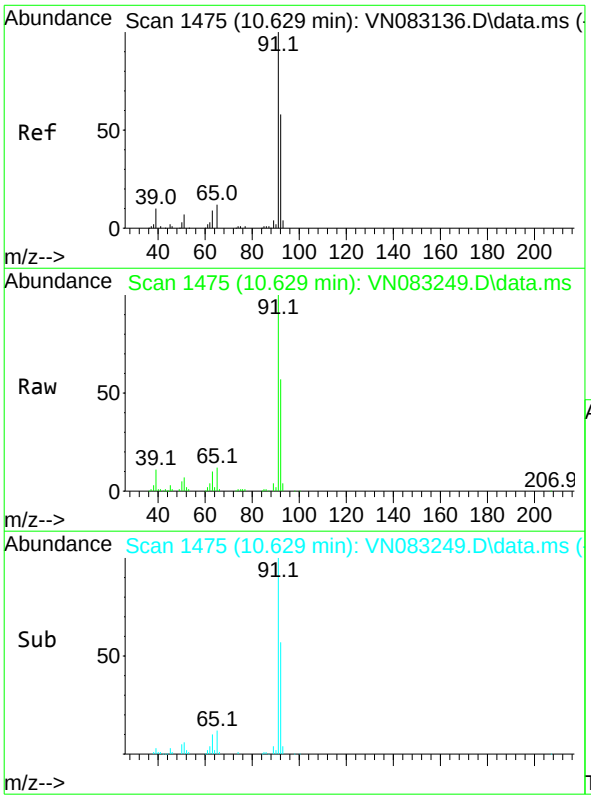
Ion	Ratio	Lower	Upper
43	100		
58	38.8	28.2	42.4

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

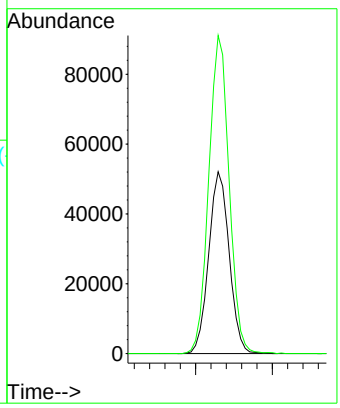


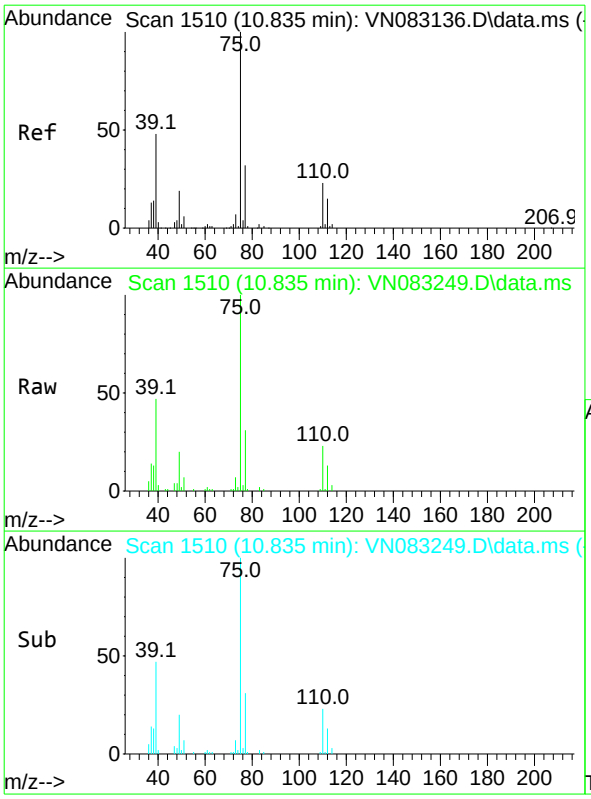


#52
Toluene
Concen: 17.748 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 92 Resp: 96659

Ion	Ratio	Lower	Upper
92	100		
91	173.4	139.4	209.0

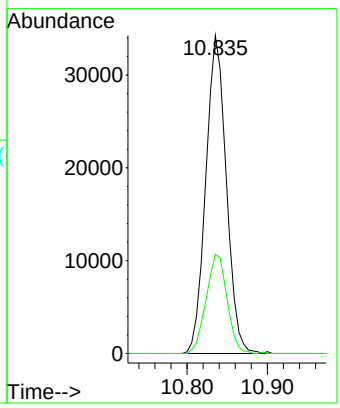




#53
t-1,3-Dichloropropene
Concen: 17.991 ug/l
RT: 10.835 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 75 Resp: 60769

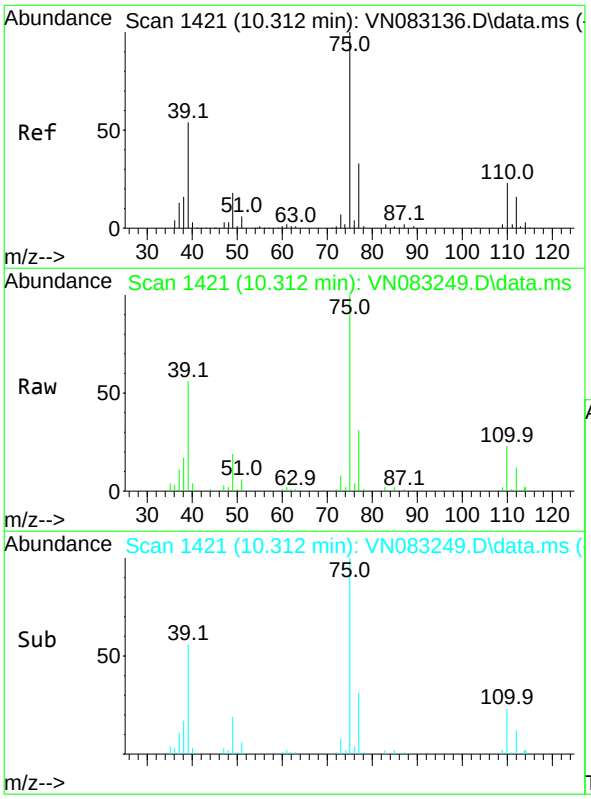
Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations
APPROVED

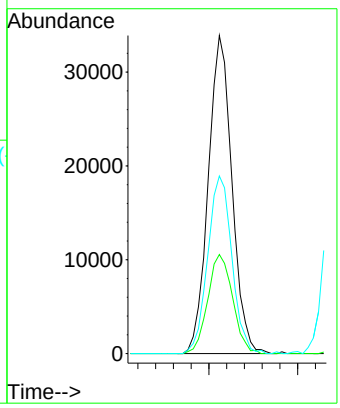
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

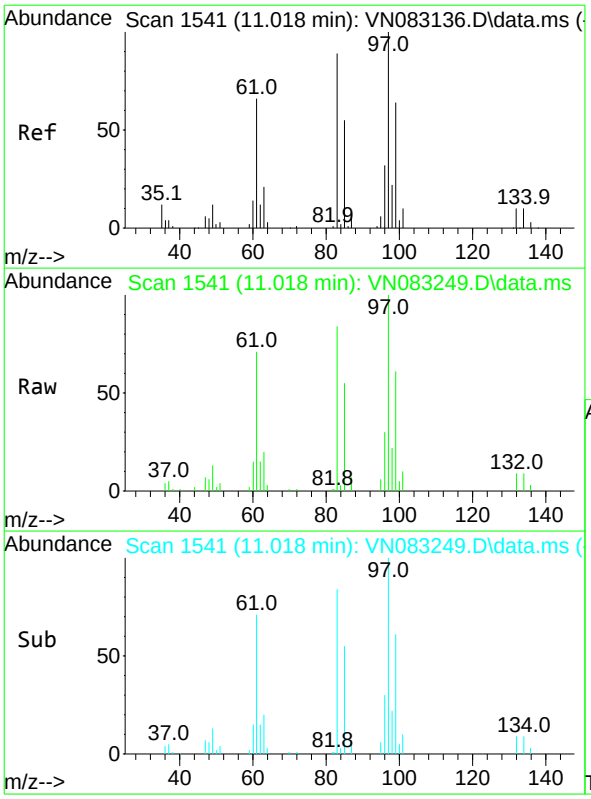


#54
cis-1,3-Dichloropropene
Concen: 17.495 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 75 Resp: 62857

Ion	Ratio	Lower	Upper
75	100		
77	31.1	24.3	36.5
39	55.8	50.5	75.7

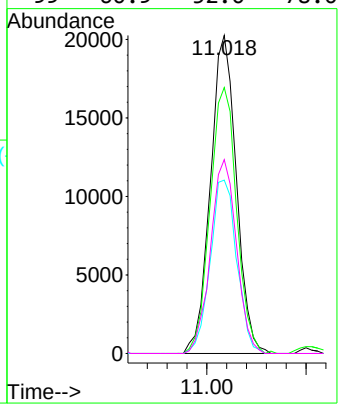




#55
1,1,2-Trichloroethane
Concen: 18.811 ug/l
RT: 11.018 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 97 Resp: 36714

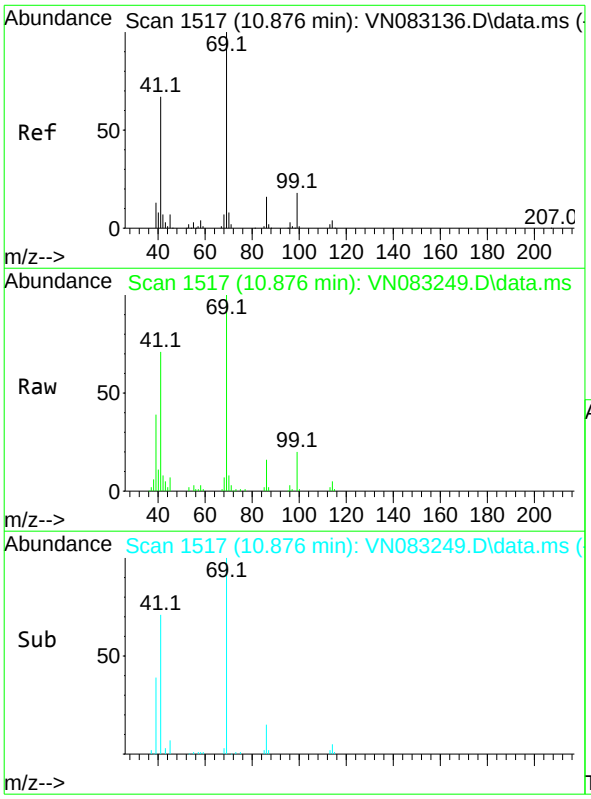
Ion	Ratio	Lower	Upper
97	100		
83	83.6	71.4	107.0
85	54.5	45.8	68.6
99	60.9	52.0	78.0



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations
APPROVED

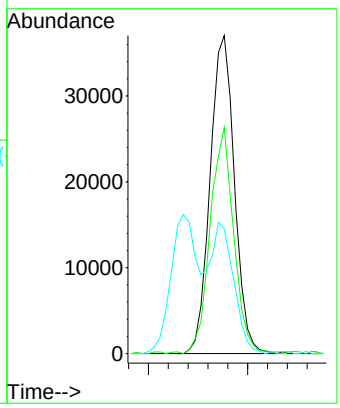
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

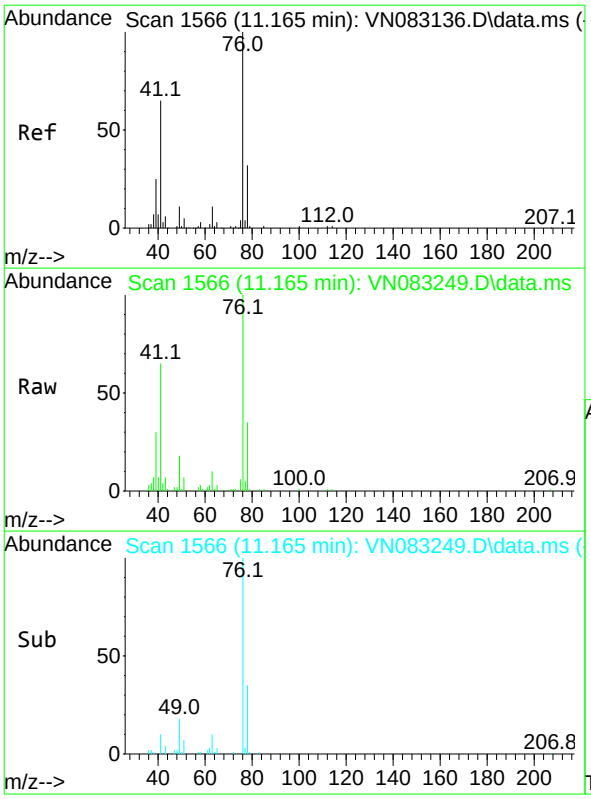


#56
Ethyl methacrylate
Concen: 17.126 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 69 Resp: 63015

Ion	Ratio	Lower	Upper
69	100		
41	69.1	63.4	95.2
39	36.4	37.4	56.0#





#57
1,3-Dichloropropane
Concen: 18.176 ug/l
RT: 11.165 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

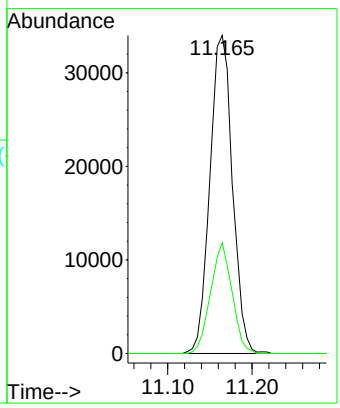
Tgt Ion: 76 Resp: 63233

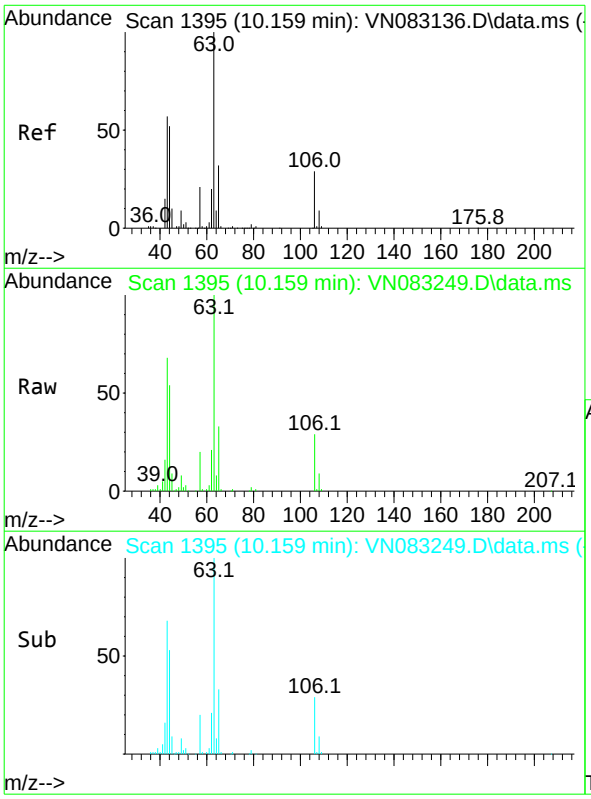
Ion	Ratio	Lower	Upper
76	100		
78	33.0	25.6	38.4

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

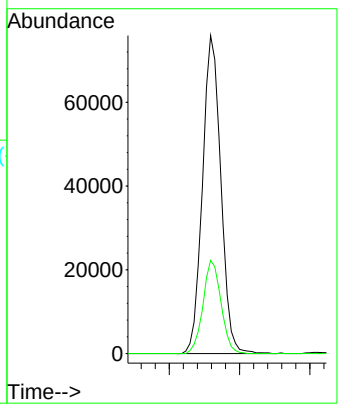


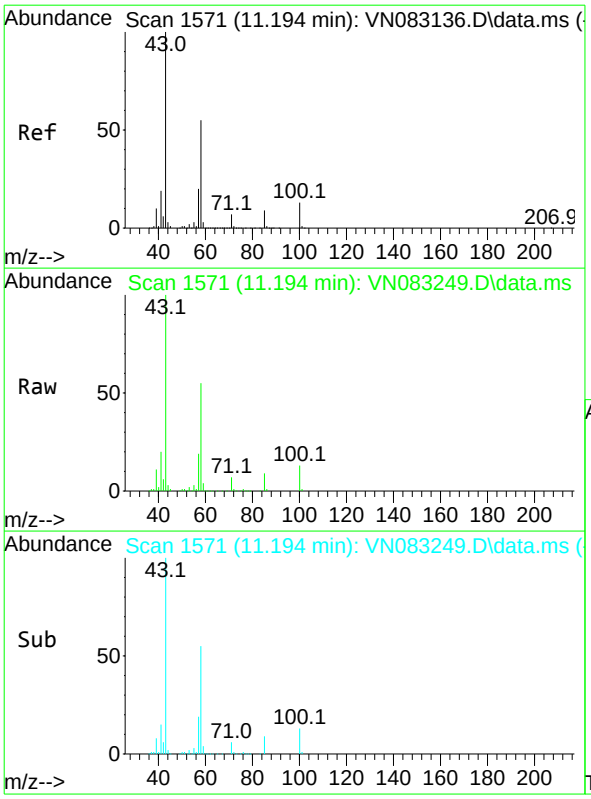


#58
2-Chloroethyl Vinyl ether
Concen: 88.342 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 63 Resp: 137398

Ion	Ratio	Lower	Upper
63	100		
106	28.7	21.4	32.0

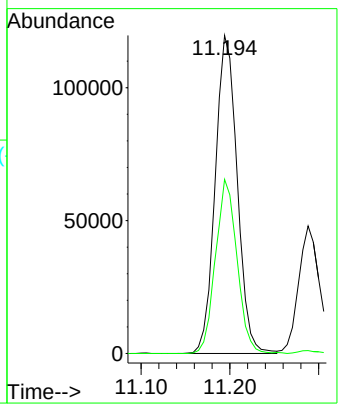




#59
2-Hexanone
Concen: 86.908 ug/l
RT: 11.194 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 43 Resp: 205980

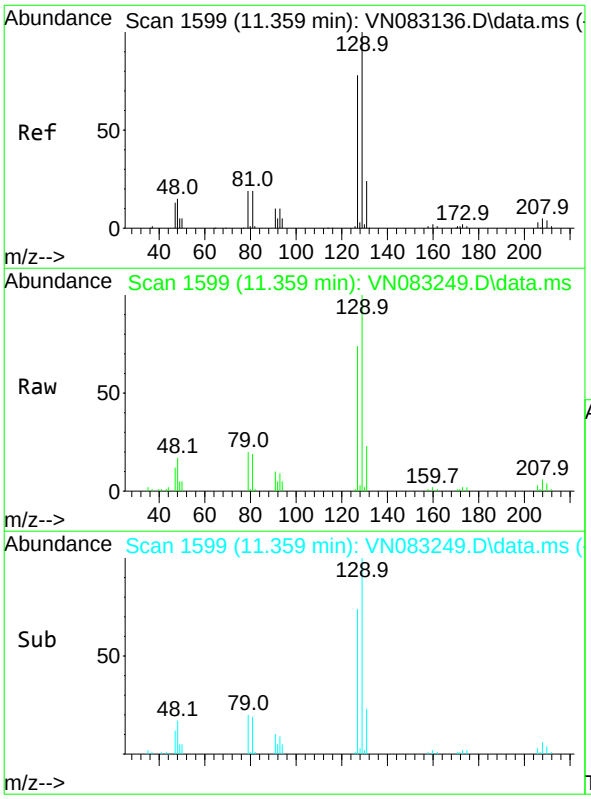
Ion	Ratio	Lower	Upper
43	100		
58	53.5	24.6	73.8



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations
APPROVED

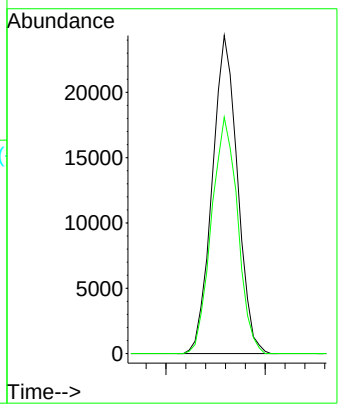
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

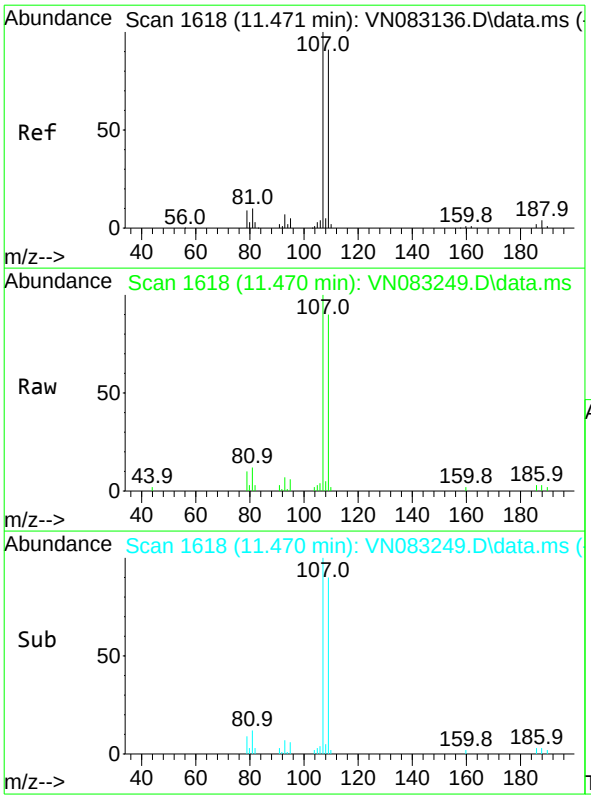


#60
Dibromochloromethane
Concen: 18.252 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion:129 Resp: 43070

Ion	Ratio	Lower	Upper
129	100		
127	76.9	39.2	117.6

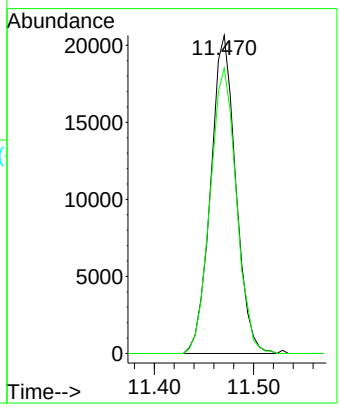




#61
1,2-Dibromoethane
Concen: 17.694 ug/l
RT: 11.470 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion:107 Resp: 36278

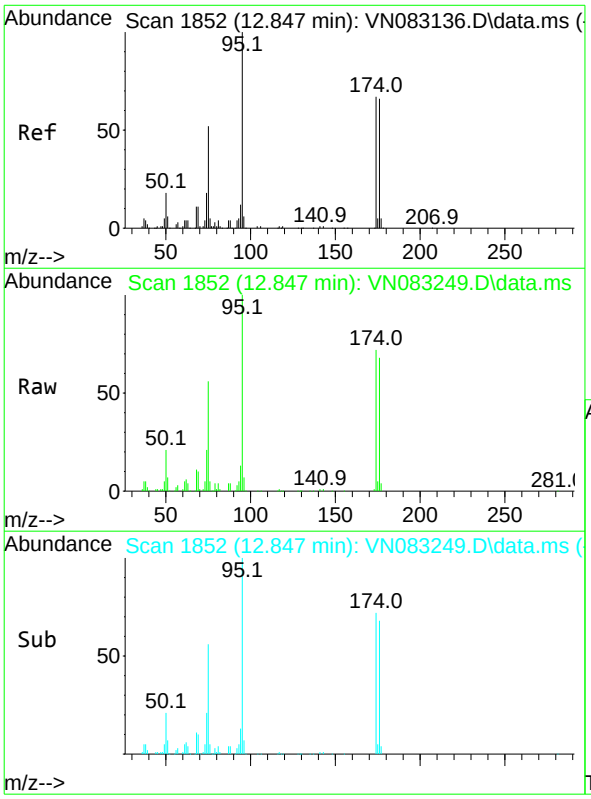
Ion	Ratio	Lower	Upper
107	100		
109	94.0	73.7	110.5



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations
APPROVED

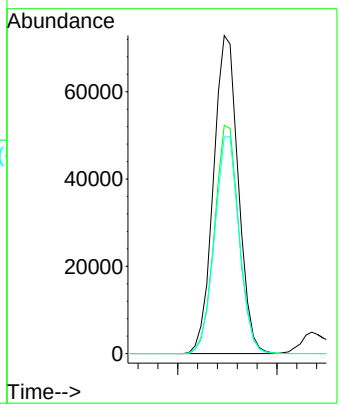
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

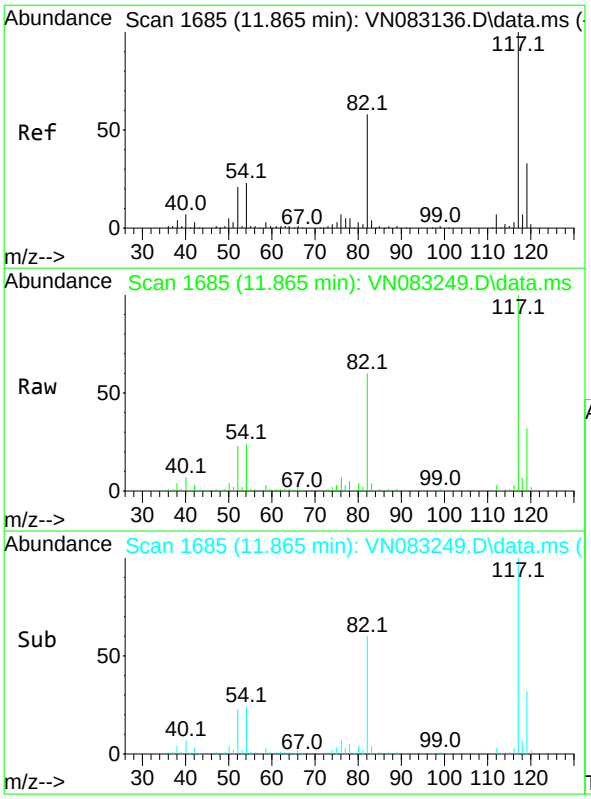


#62
4-Bromofluorobenzene
Concen: 45.477 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 95 Resp: 126499

Ion	Ratio	Lower	Upper
95	100		
174	70.5	0.0	159.2
176	68.1	0.0	147.6

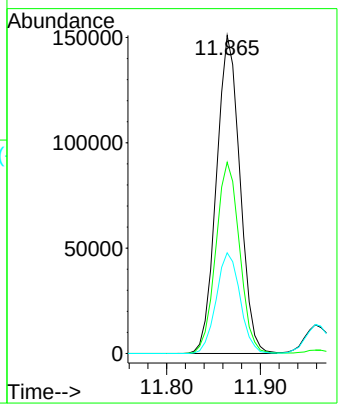




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion:117 Resp: 263797

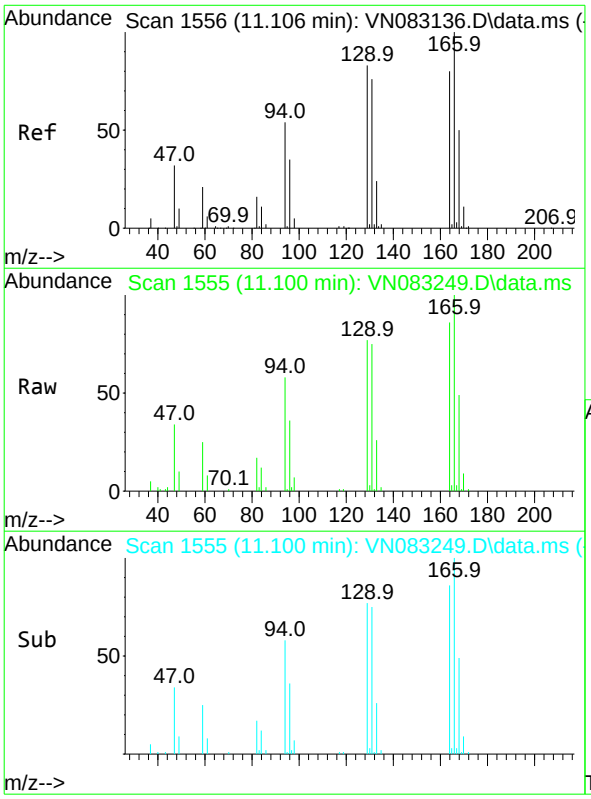
Ion	Ratio	Lower	Upper
117	100		
82	60.1	47.5	71.3
119	31.7	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations
APPROVED

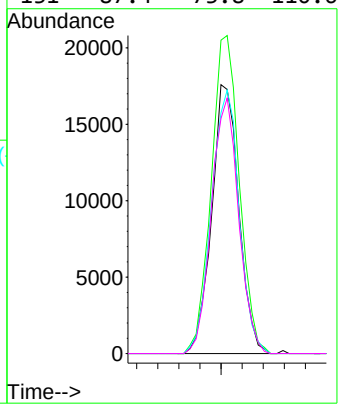
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

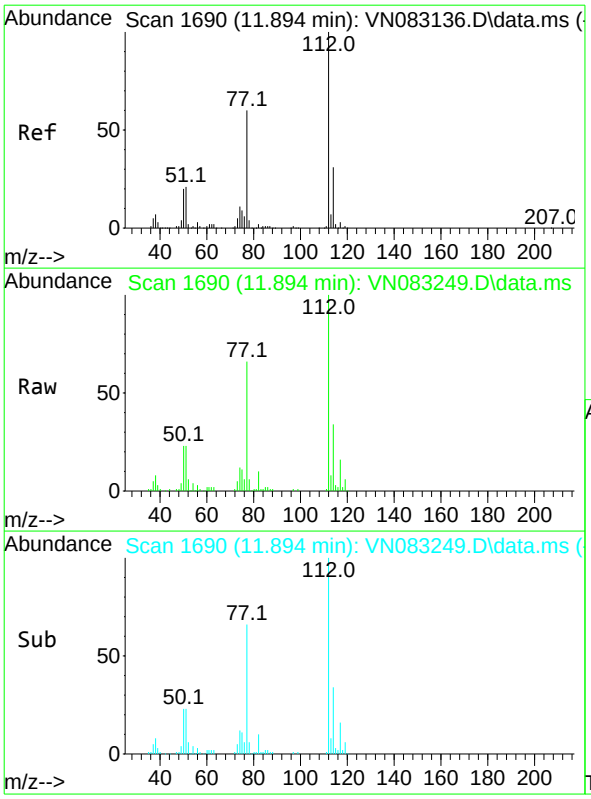


#64
Tetrachloroethene
Concen: 17.967 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.006 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion:164 Resp: 31390

Ion	Ratio	Lower	Upper
164	100		
166	116.6	101.4	152.0
129	89.5	75.7	113.5
131	87.4	73.8	110.6





#65
Chlorobenzene
Concen: 17.843 ug/l
RT: 11.894 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

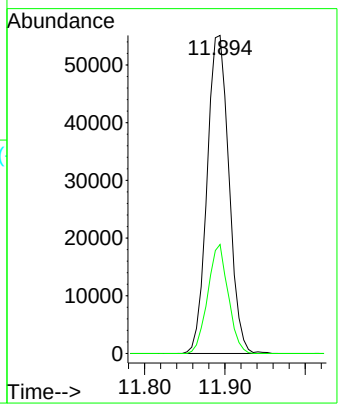
Tgt Ion:112 Resp: 104015

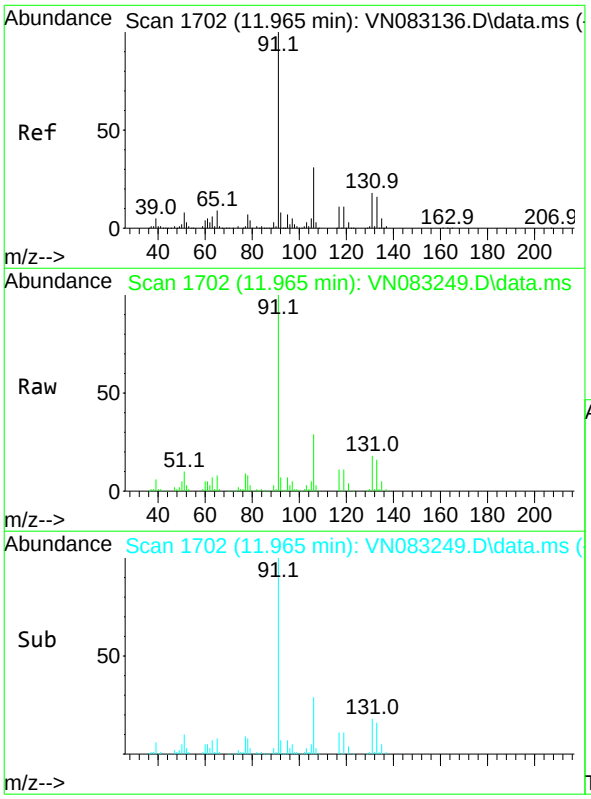
Ion	Ratio	Lower	Upper
112	100		
114	34.3	26.2	39.2

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

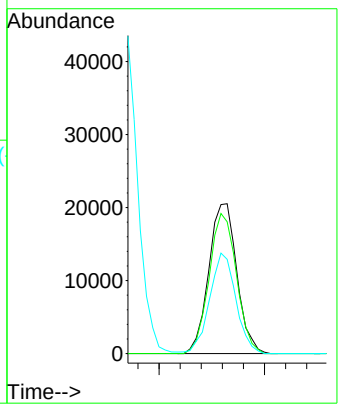


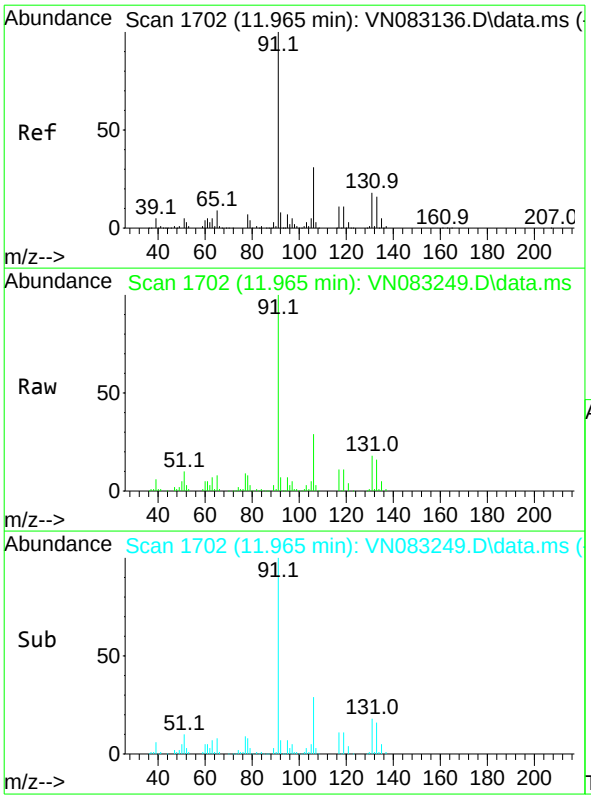


#66
1,1,1,2-Tetrachloroethane
Concen: 18.493 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion:131 Resp: 38021

Ion	Ratio	Lower	Upper
131	100		
133	90.9	47.3	142.0
119	62.6	32.5	97.4





#67
Ethyl Benzene
Concen: 17.926 ug/l
RT: 11.965 min Scan# 17
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

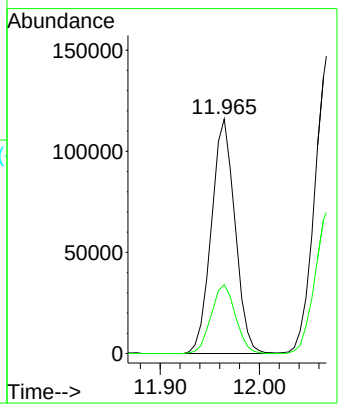
Tgt Ion: 91 Resp: 191707

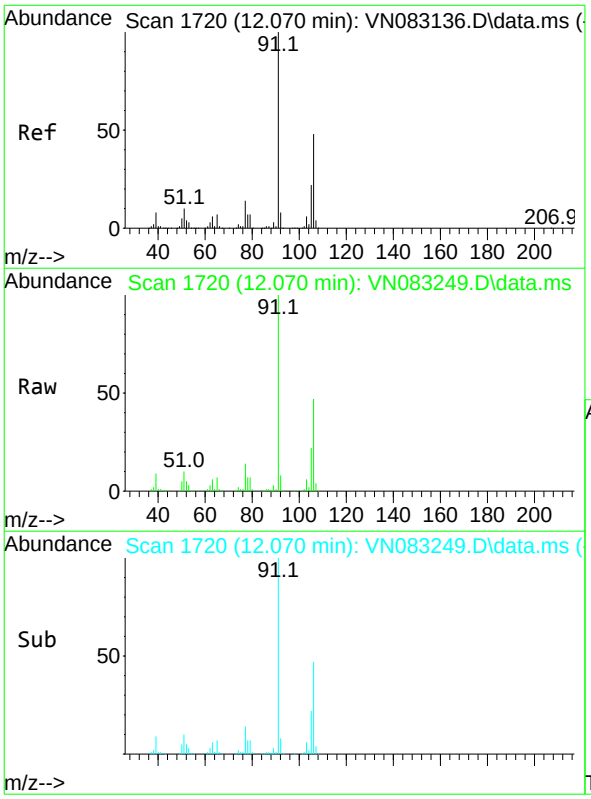
Ion	Ratio	Lower	Upper
91	100		
106	29.3	24.0	36.0

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

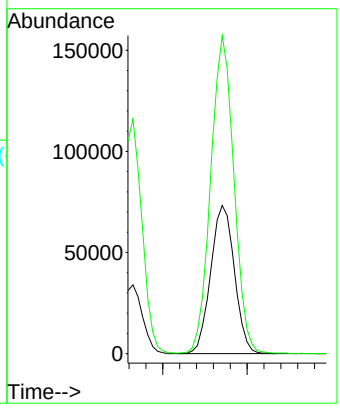


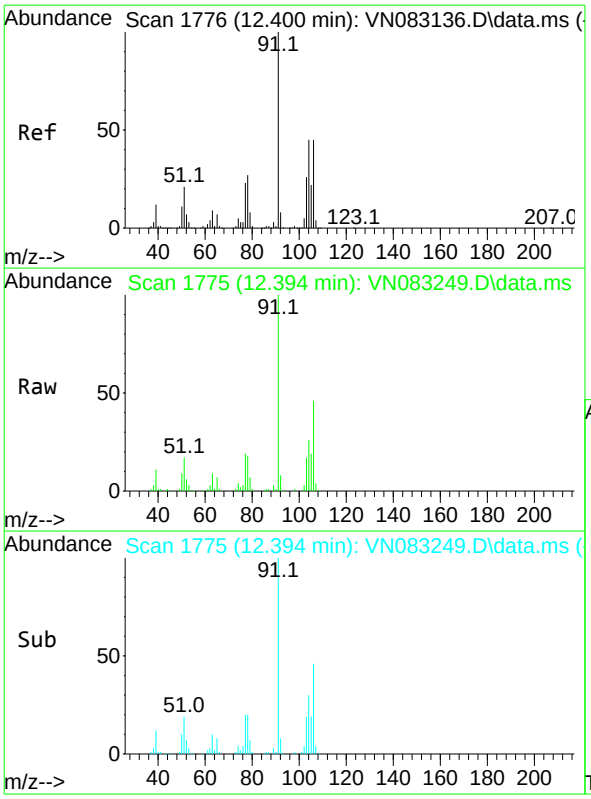


#68
m/p-Xylenes
Concen: 35.721 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion:106 Resp: 143098

Ion	Ratio	Lower	Upper
106	100		
91	210.6	166.1	249.1

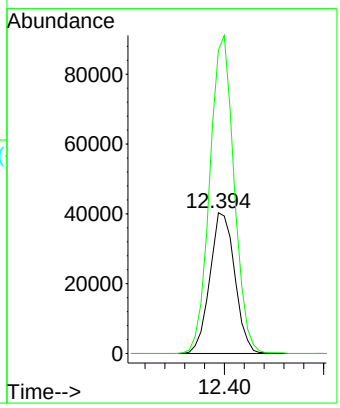




#69
o-Xylene
Concen: 17.779 ug/l
RT: 12.394 min Scan# 17
Delta R.T. -0.006 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion:106 Resp: 70244

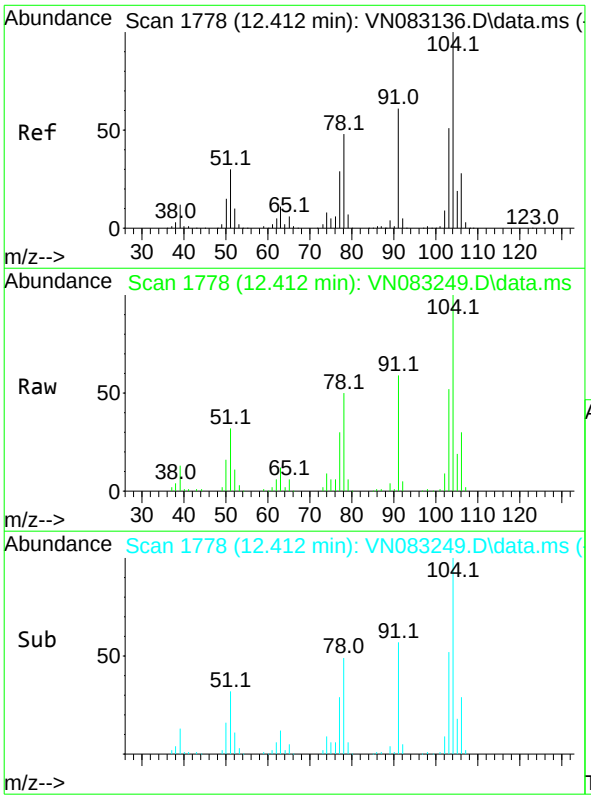
Ion	Ratio	Lower	Upper
106	100		
91	220.8	111.3	333.9



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations APPROVED

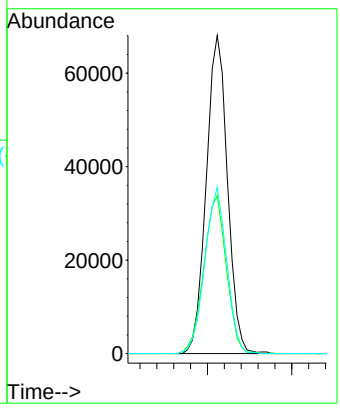
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

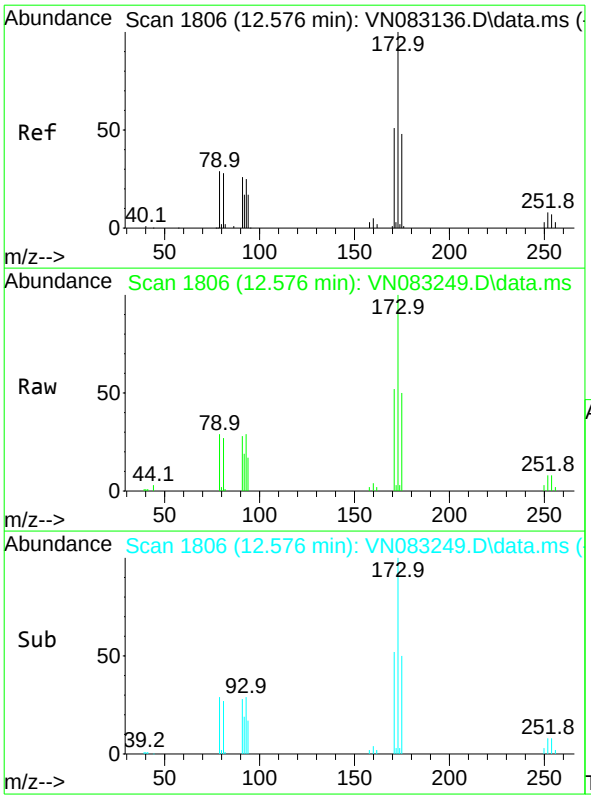


#70
Styrene
Concen: 17.942 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion:104 Resp: 119061

Ion	Ratio	Lower	Upper
104	100		
78	52.9	41.6	62.4
103	54.0	44.0	66.0





#71
Bromoform
Concen: 17.465 ug/l
RT: 12.576 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

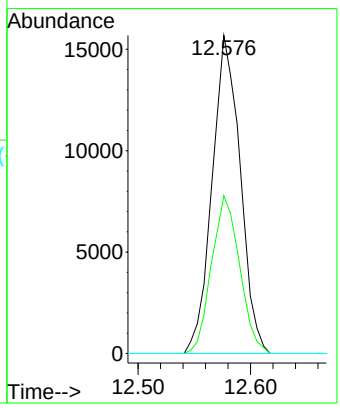
Tgt Ion:173 Resp: 27203

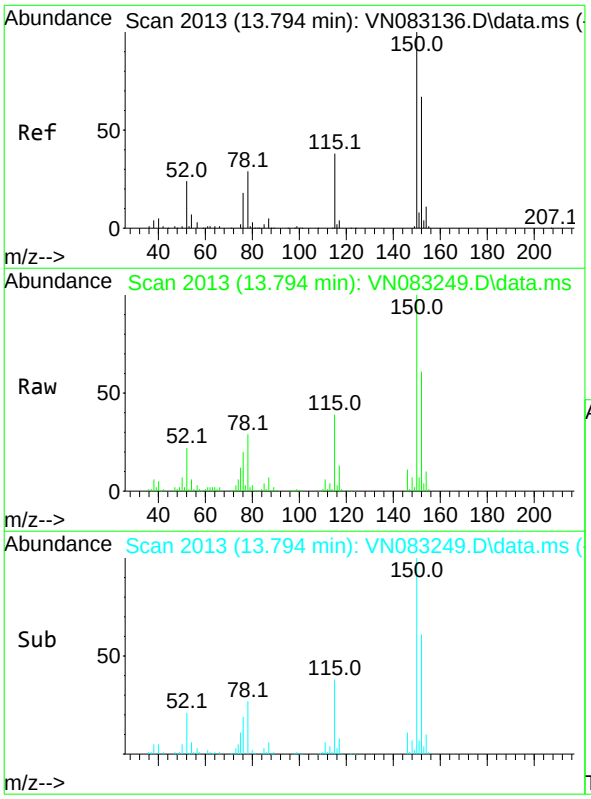
Ion	Ratio	Lower	Upper
173	100		
175	49.6	24.0	72.0
254	0.0	0.0	0.0

Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

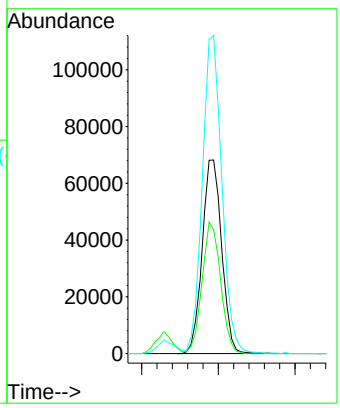


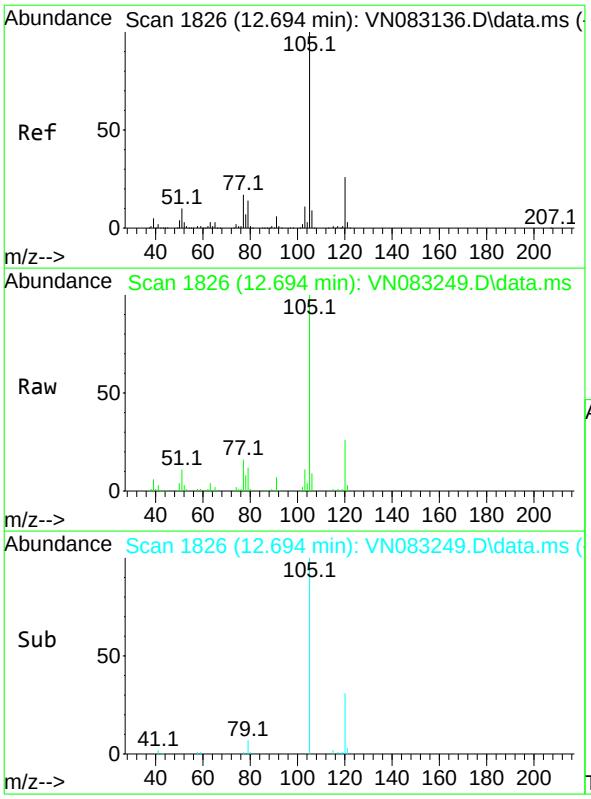


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion:152 Resp: 120363

Ion	Ratio	Lower	Upper
152	100		
115	64.4	30.6	91.6
150	165.0	0.0	348.6

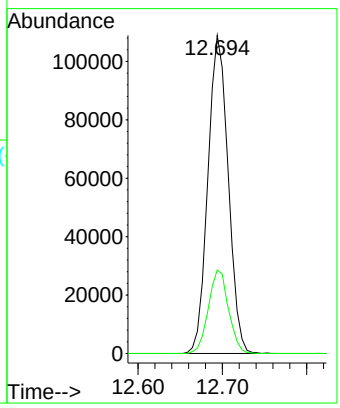




#73
Isopropylbenzene
Concen: 18.070 ug/l
RT: 12.694 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion:105 Resp: 181922

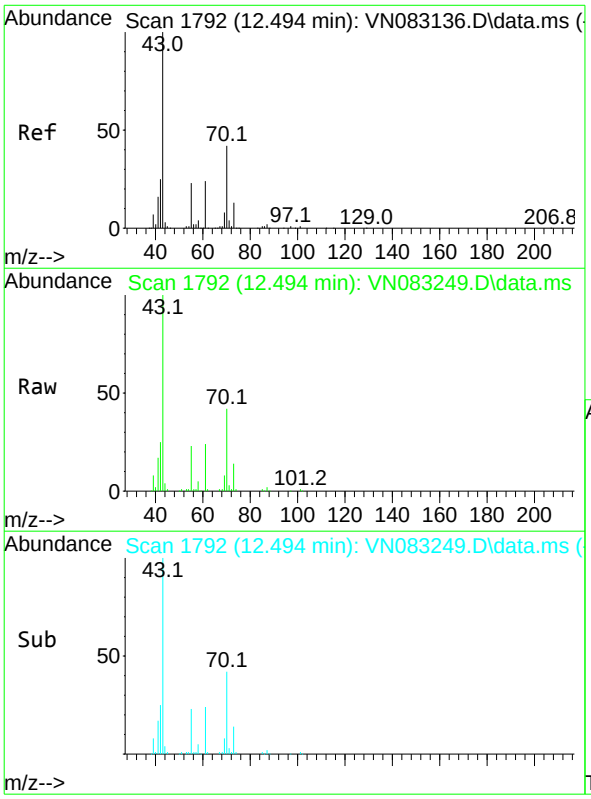
Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.9	38.6



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations APPROVED

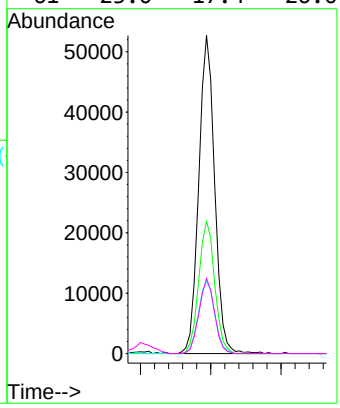
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

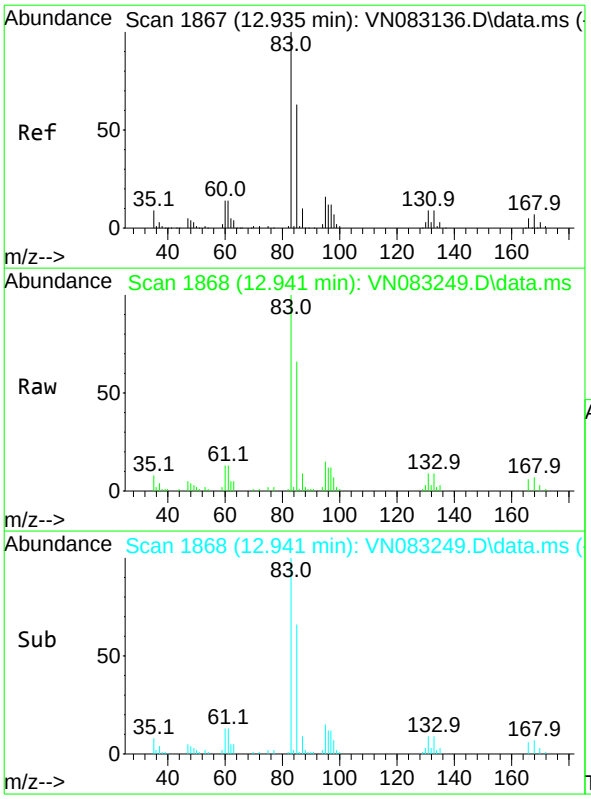


#74
N-amyl acetate
Concen: 16.791 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 43 Resp: 82687

Ion	Ratio	Lower	Upper
43	100		
70	41.8	29.8	44.6
55	23.4	18.7	28.1
61	23.0	17.4	26.0

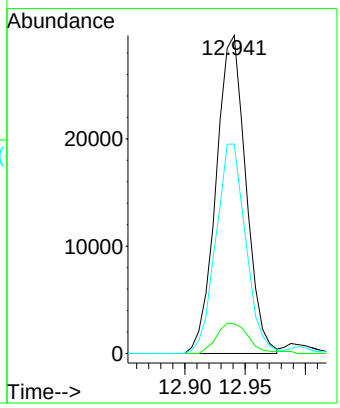




#75
1,1,2,2-Tetrachloroethane
Concen: 17.918 ug/l
RT: 12.941 min Scan# 18
Delta R.T. 0.006 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 83 Resp: 51020

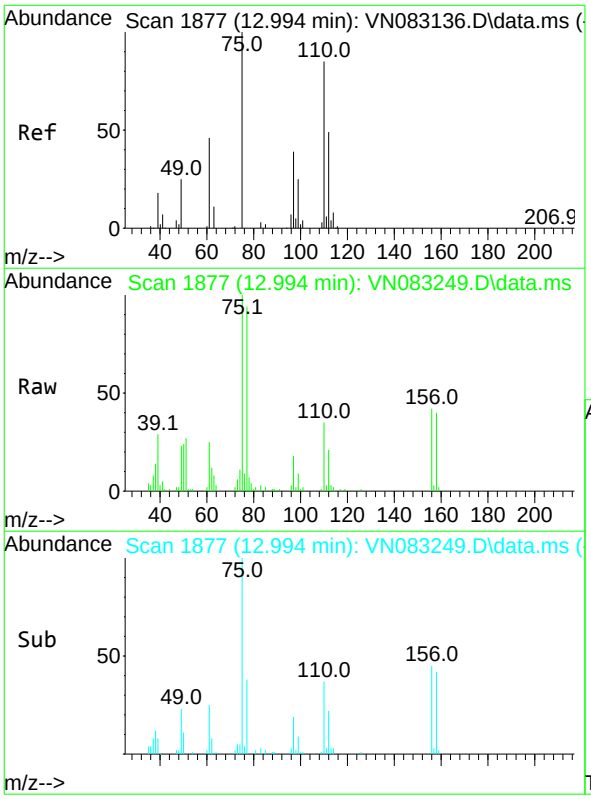
Ion	Ratio	Lower	Upper
83	100		
131	10.5	5.0	14.9
85	66.1	31.9	95.7



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations
APPROVED

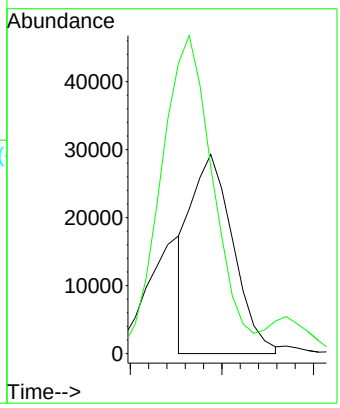
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

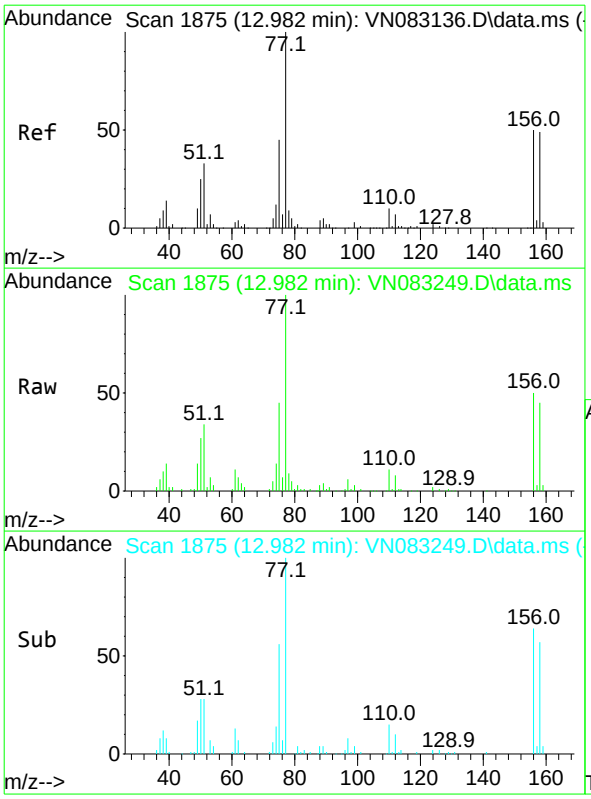


#76
1,2,3-Trichloropropane
Concen: 17.890 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 75 Resp: 47260

Ion	Ratio	Lower	Upper
75	100		
77	196.6	110.9	332.6

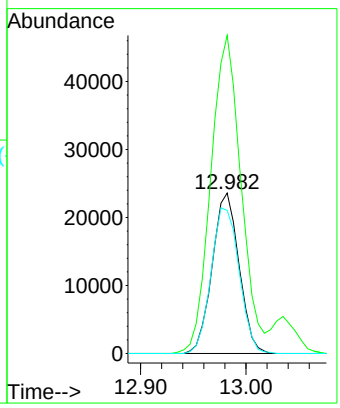




#77
Bromobenzene
Concen: 18.614 ug/l
RT: 12.982 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion:156 Resp: 41629

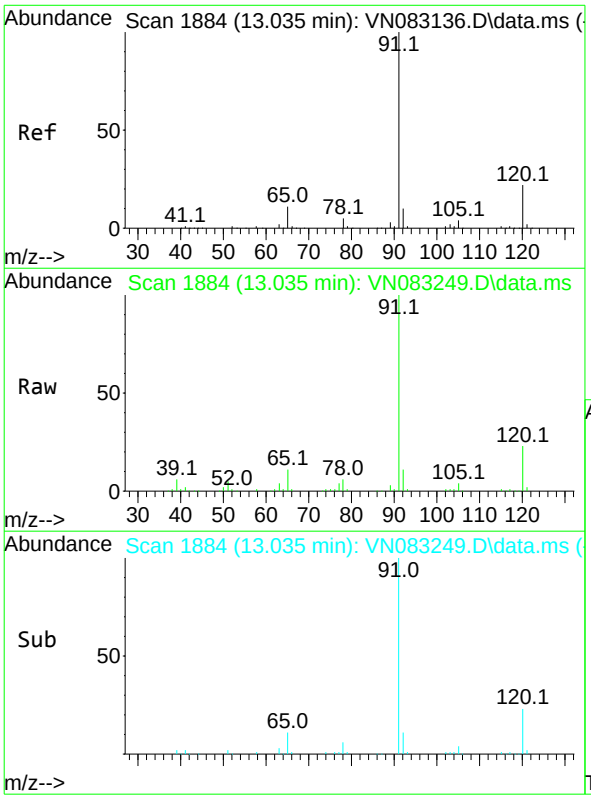
Ion	Ratio	Lower	Upper
156	100		
77	223.2	111.3	333.8
158	95.2	48.3	144.9



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations APPROVED

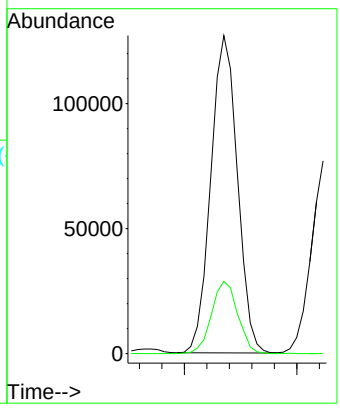
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

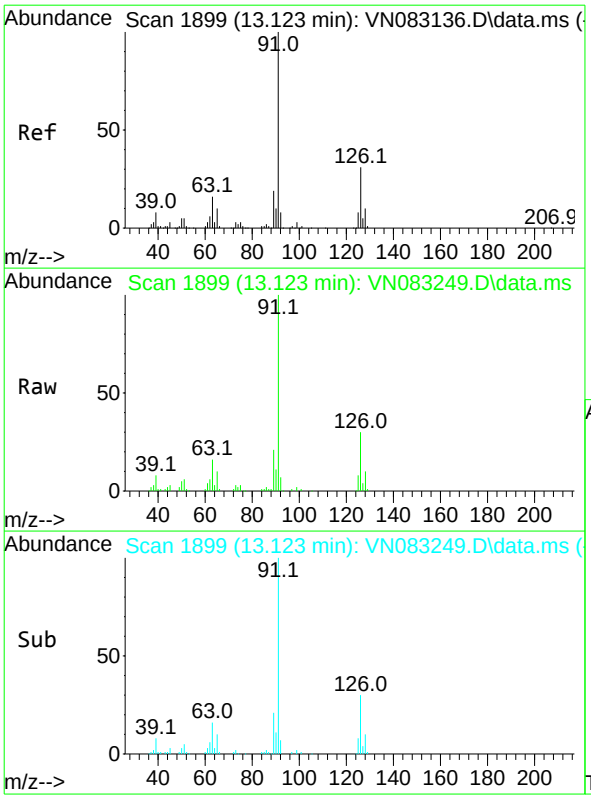


#78
n-propylbenzene
Concen: 17.979 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 91 Resp: 208423

Ion	Ratio	Lower	Upper
91	100		
120	22.3	10.9	32.9

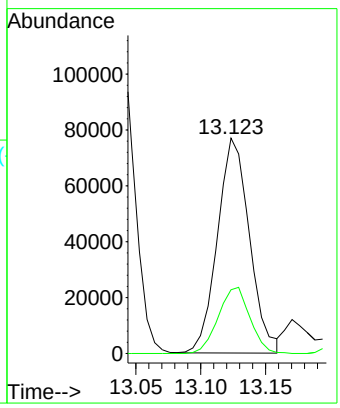




#79
2-Chlorotoluene
Concen: 18.001 ug/l
RT: 13.123 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 91 Resp: 132299

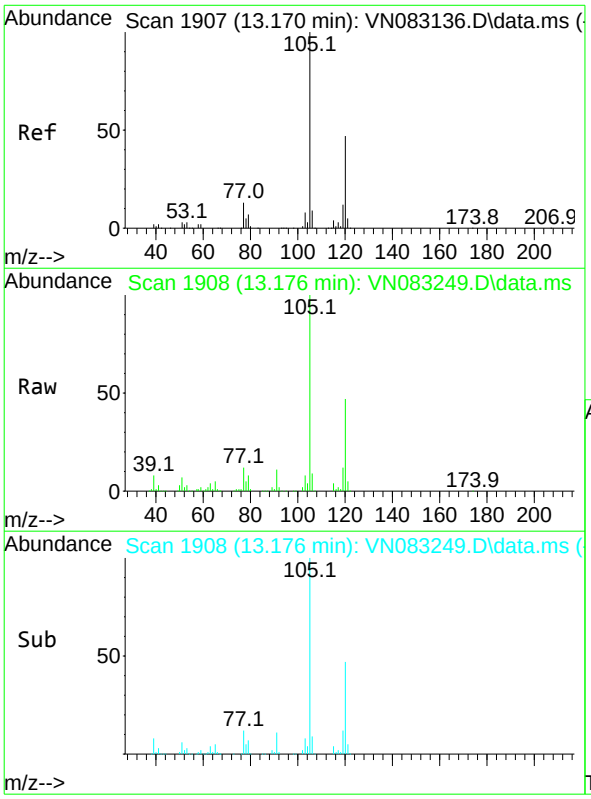
Ion	Ratio	Lower	Upper
91	100		
126	30.3	16.2	48.6



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations
APPROVED

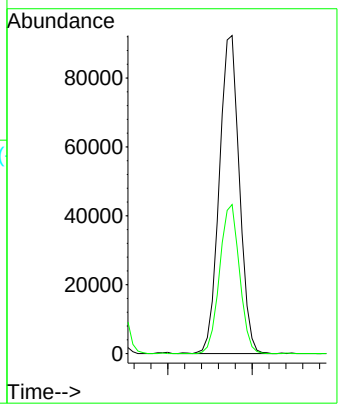
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

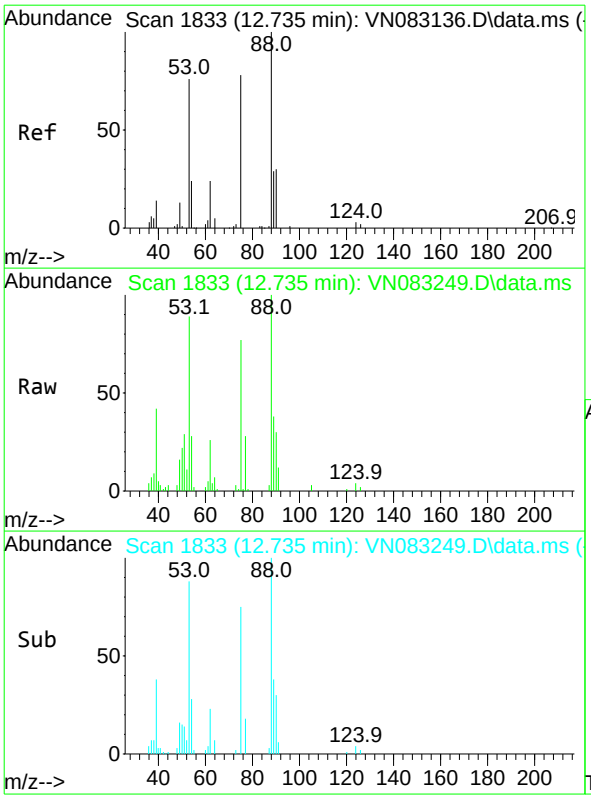


#80
1,3,5-Trimethylbenzene
Concen: 18.118 ug/l
RT: 13.176 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion:105 Resp: 152708

Ion	Ratio	Lower	Upper
105	100		
120	46.3	24.3	72.8

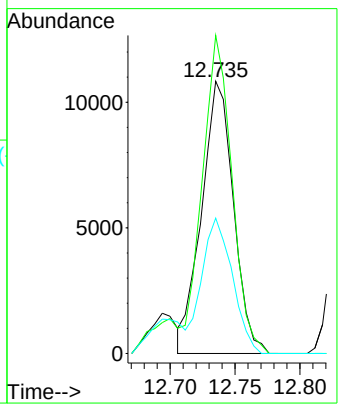




#81
trans-1,4-Dichloro-2-butene
Concen: 15.265 ug/l
RT: 12.735 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 75 Resp: 18538

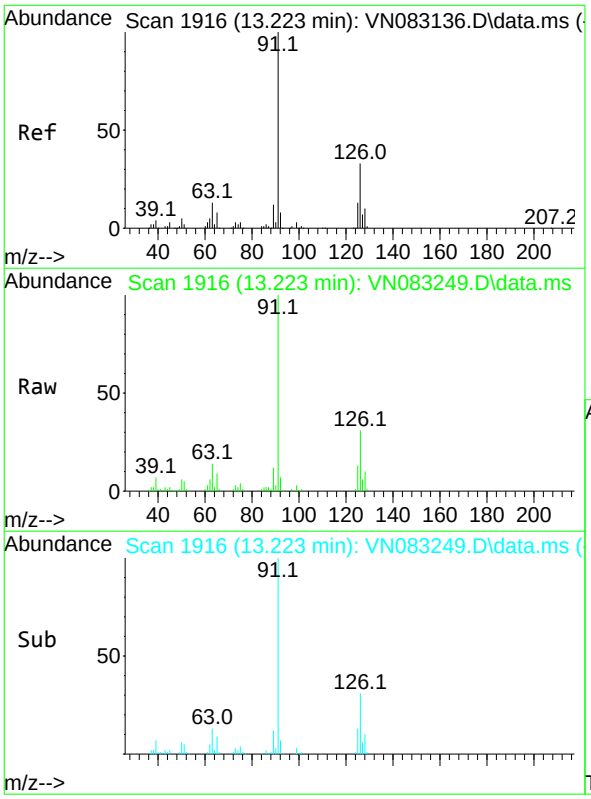
Ion	Ratio	Lower	Upper
75	100		
53	120.3	88.4	132.6
89	47.8	36.3	54.5



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations
APPROVED

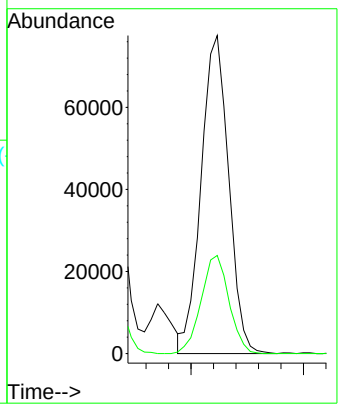
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

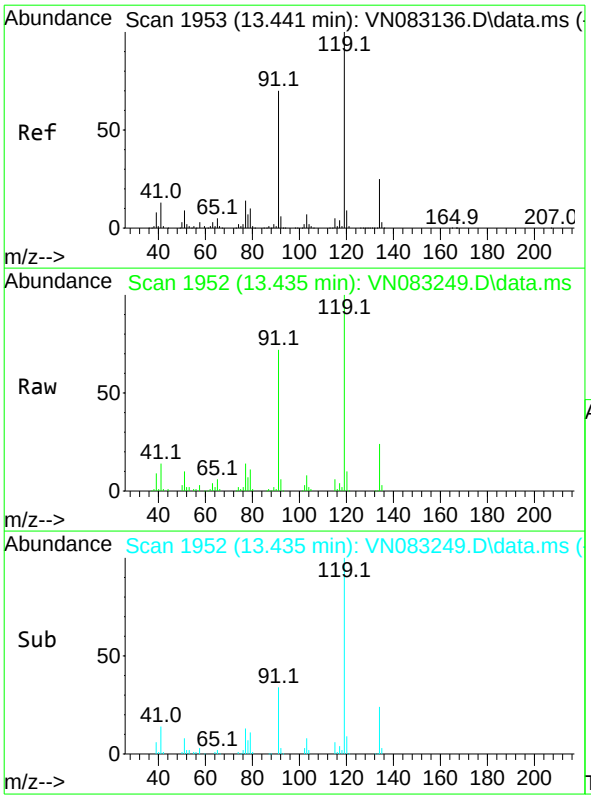


#82
4-Chlorotoluene
Concen: 17.895 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 91 Resp: 131924

Ion	Ratio	Lower	Upper
91	100		
126	31.2	16.2	48.6

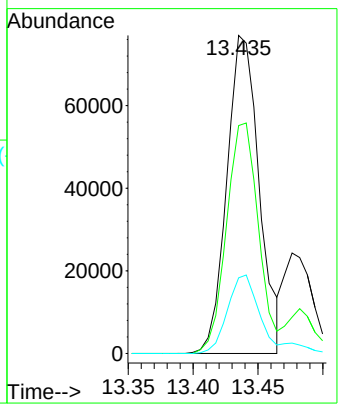




#83
tert-Butylbenzene
Concen: 17.922 ug/l
RT: 13.435 min Scan# 19
Delta R.T. -0.006 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion:119 Resp: 133777

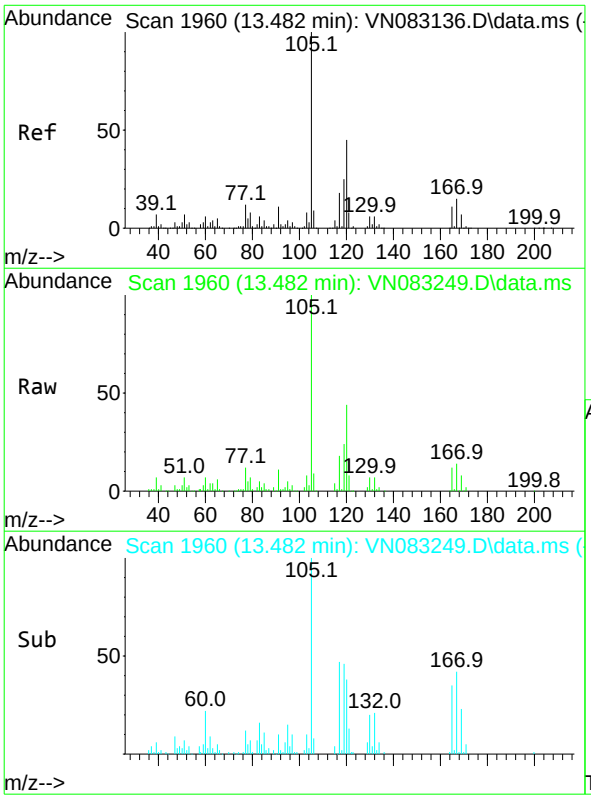
Ion	Ratio	Lower	Upper
119	100		
91	71.4	35.0	105.1
134	26.2	13.3	39.8



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations
APPROVED

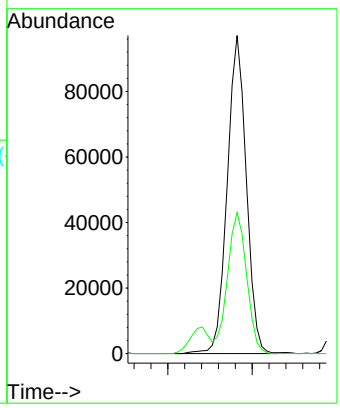
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

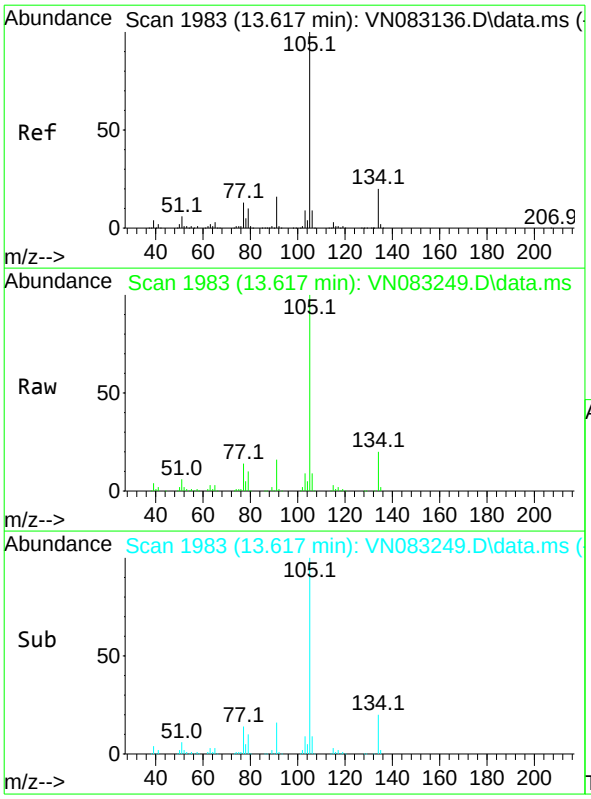


#84
1,2,4-Trimethylbenzene
Concen: 17.925 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion:105 Resp: 152254

Ion	Ratio	Lower	Upper
105	100		
120	44.7	21.9	65.8

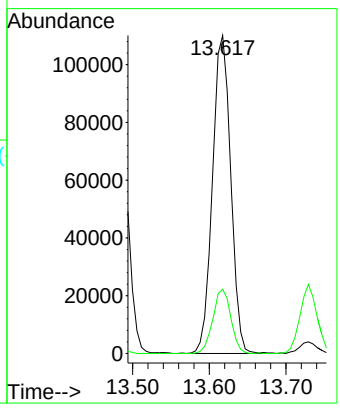




#85
sec-Butylbenzene
Concen: 17.872 ug/l
RT: 13.617 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion:105 Resp: 182028

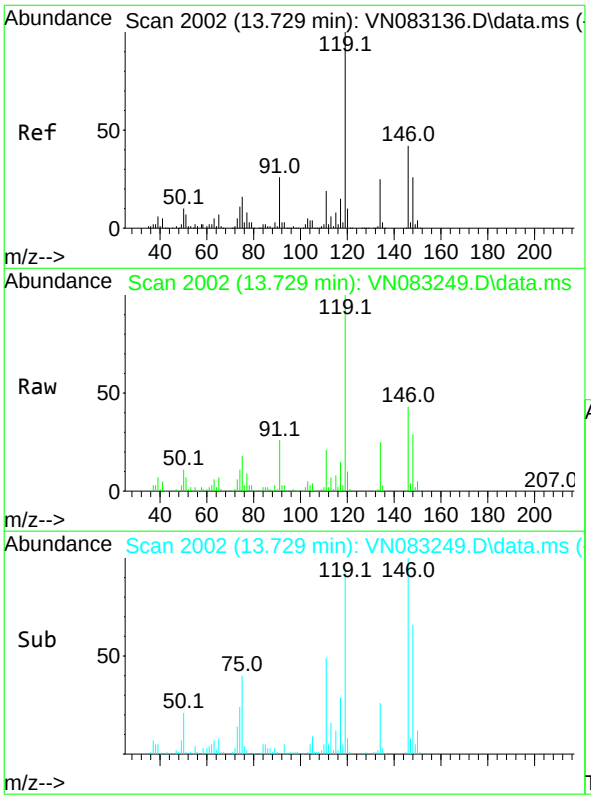
Ion	Ratio	Lower	Upper
105	100		
134	19.9	9.8	29.3



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations APPROVED

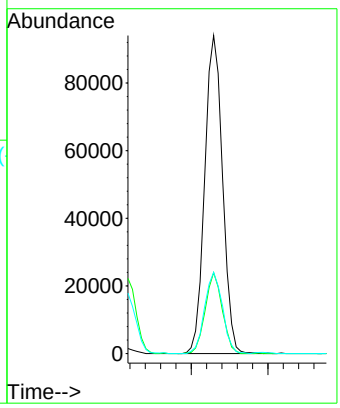
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

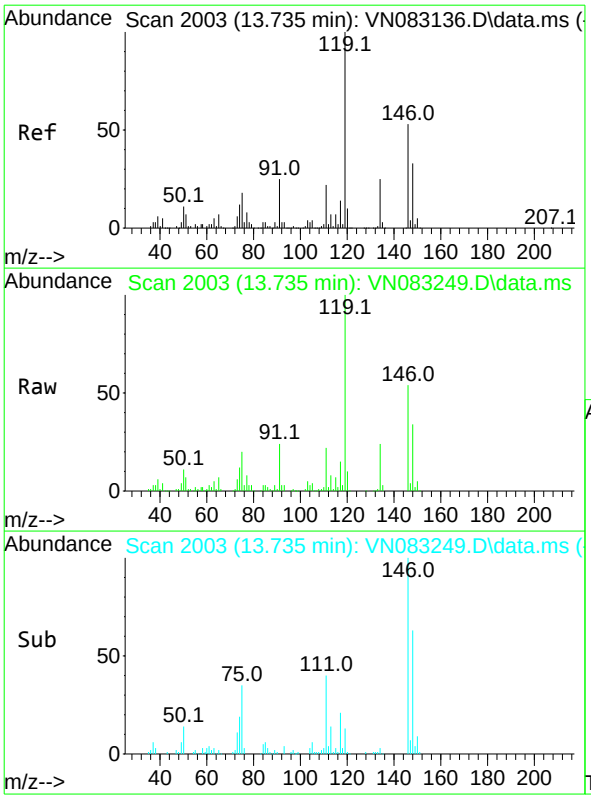


#86
p-Isopropyltoluene
Concen: 18.061 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion:119 Resp: 151886

Ion	Ratio	Lower	Upper
119	100		
134	24.2	13.0	39.0
91	25.6	12.3	36.9

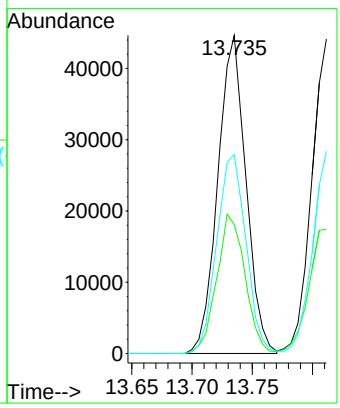




#87
1,3-Dichlorobenzene
Concen: 17.242 ug/l
RT: 13.735 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion:146 Resp: 72557

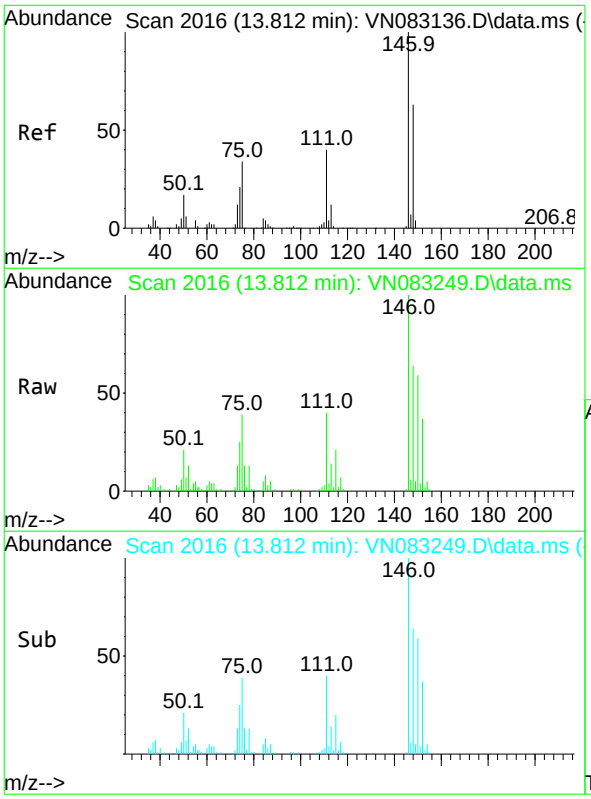
Ion	Ratio	Lower	Upper
146	100		
111	44.1	20.6	61.9
148	65.2	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations APPROVED

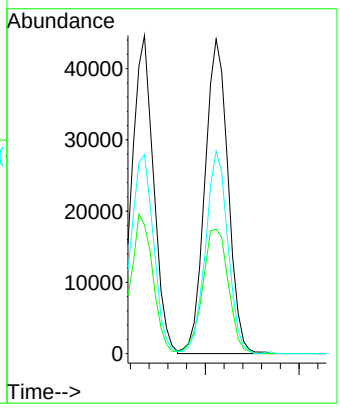
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

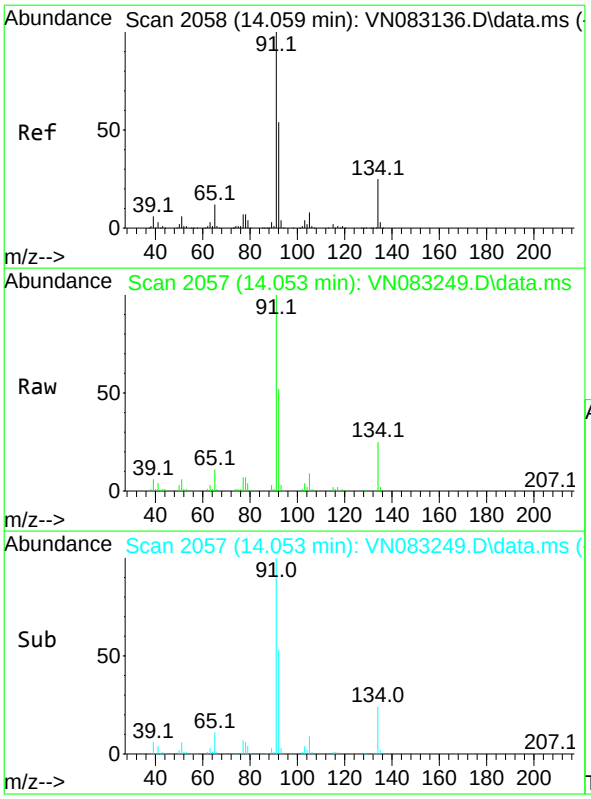


#88
1,4-Dichlorobenzene
Concen: 17.846 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion:146 Resp: 75711

Ion	Ratio	Lower	Upper
146	100		
111	43.9	20.1	60.3
148	61.9	32.2	96.6

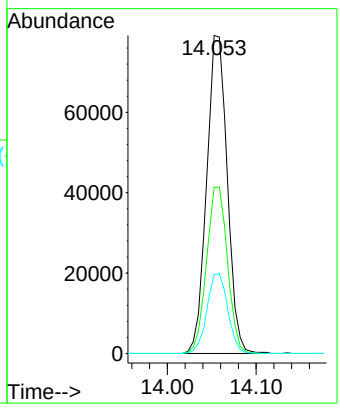




#89
n-Butylbenzene
Concen: 17.535 ug/l
RT: 14.053 min Scan# 20
Delta R.T. -0.006 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 91 Resp: 127777

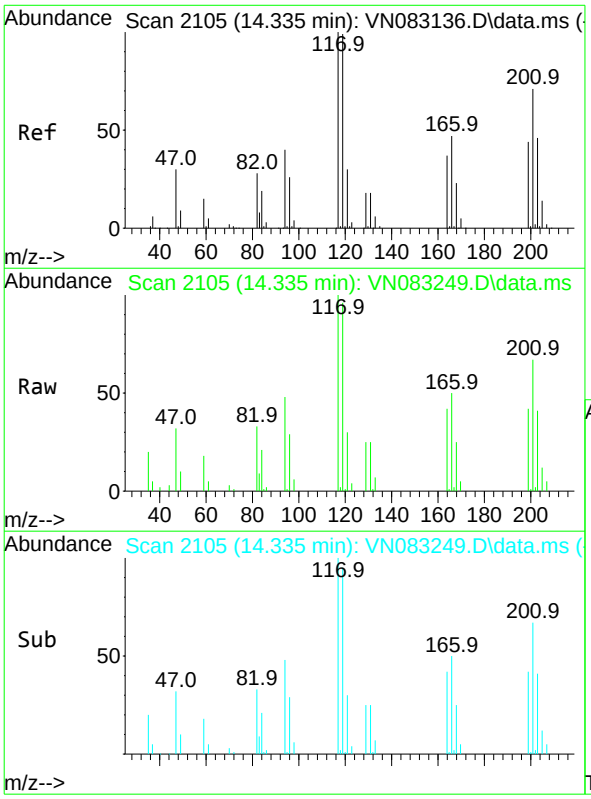
Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.1	78.3
134	25.4	12.1	36.3



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations
APPROVED

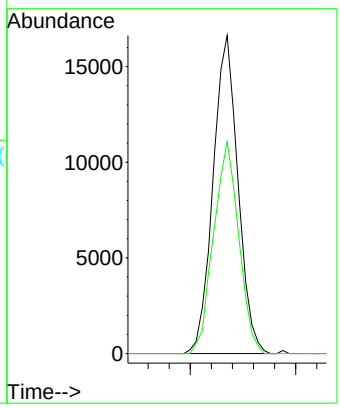
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

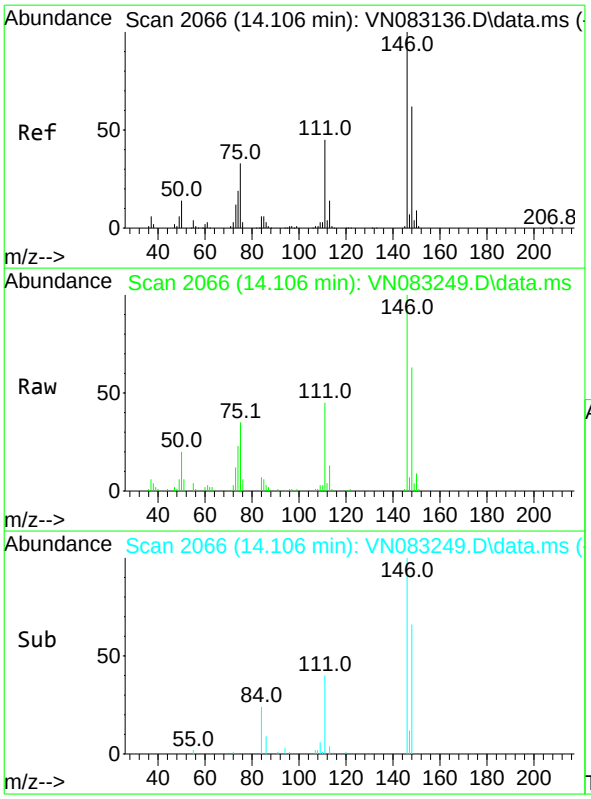


#90
Hexachloroethane
Concen: 16.782 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion:117 Resp: 27265

Ion	Ratio	Lower	Upper
117	100		
201	67.3	35.8	107.3

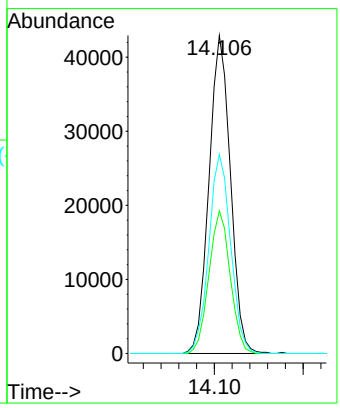




#91
1,2-Dichlorobenzene
Concen: 17.671 ug/l
RT: 14.106 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion:146 Resp: 71959

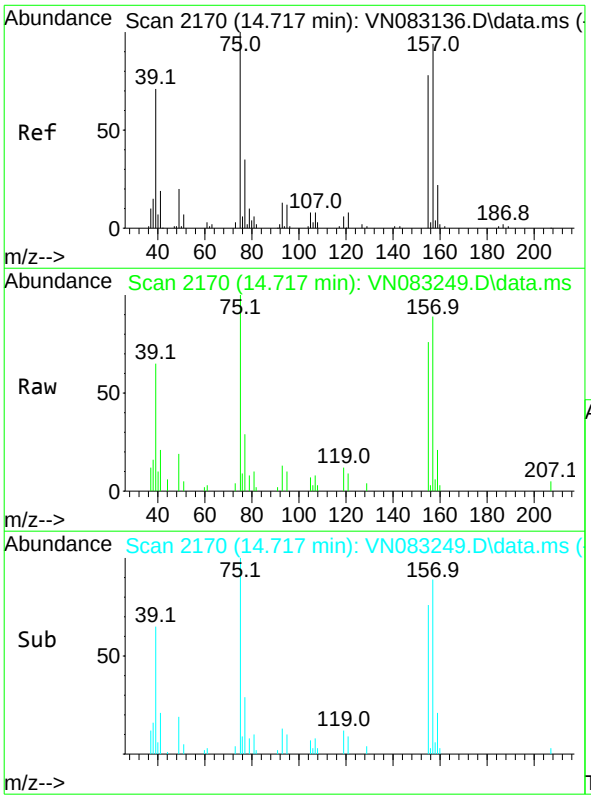
Ion	Ratio	Lower	Upper
146	100		
111	44.5	21.4	64.2
148	63.7	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations
APPROVED

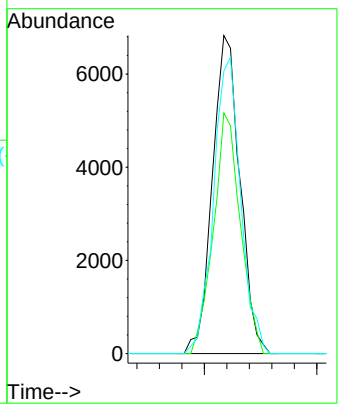
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

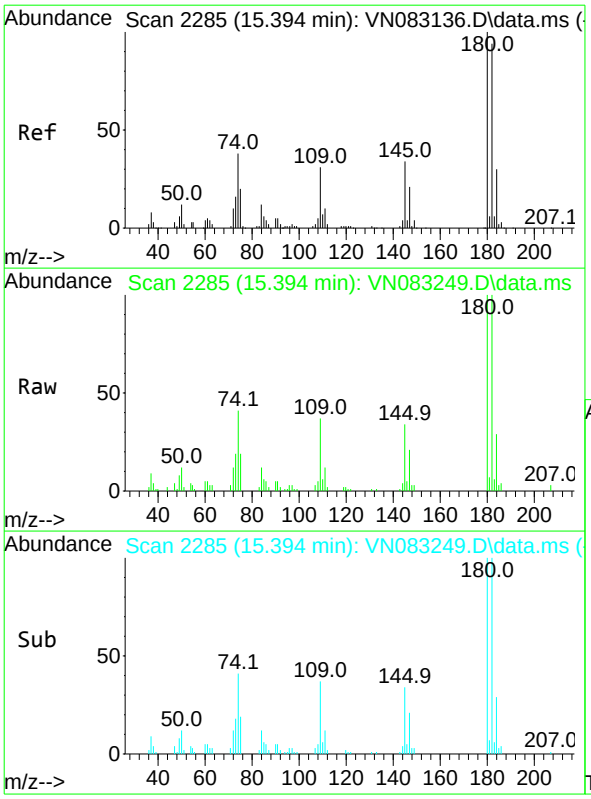


#92
1,2-Dibromo-3-Chloropropane
Concen: 16.781 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion: 75 Resp: 11595

Ion	Ratio	Lower	Upper
75	100		
155	74.2	36.6	109.8
157	91.8	46.9	140.6

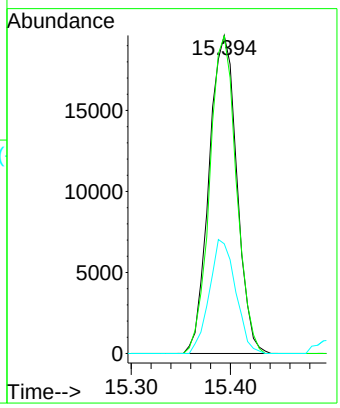




#93
1,2,4-Trichlorobenzene
Concen: 16.721 ug/l
RT: 15.394 min Scan# 22
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion:180 Resp: 38146

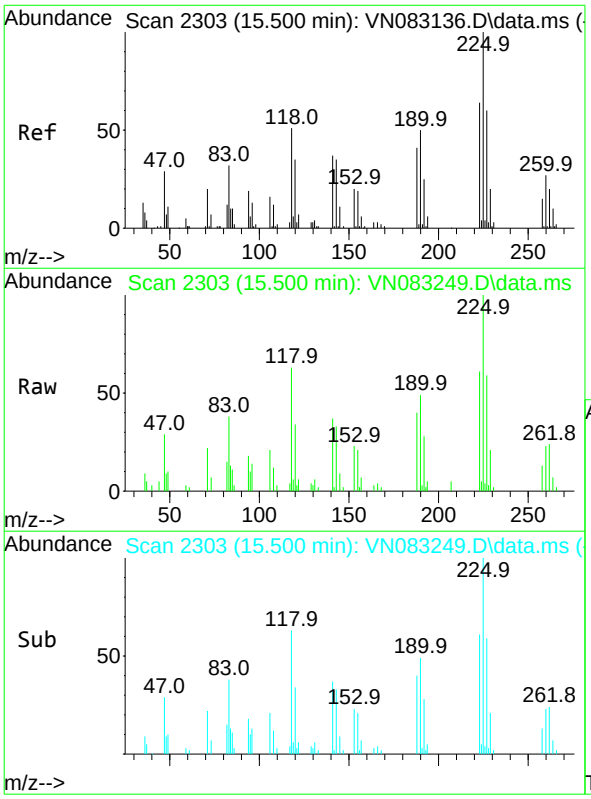
Ion	Ratio	Lower	Upper
180	100		
182	95.8	47.3	141.8
145	33.9	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations
APPROVED

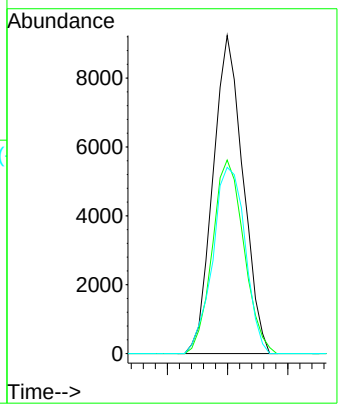
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024

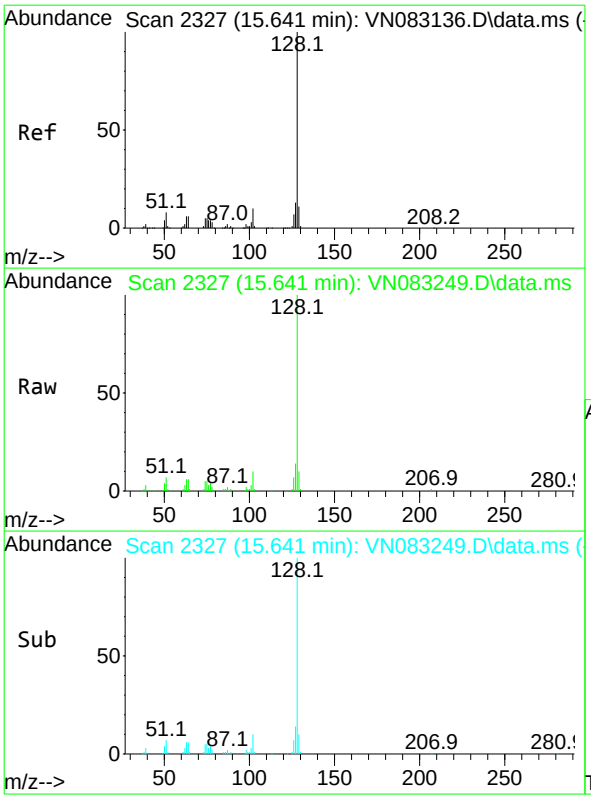


#94
Hexachlorobutadiene
Concen: 15.758 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion:225 Resp: 15988

Ion	Ratio	Lower	Upper
225	100		
223	64.0	31.9	95.7
227	63.3	32.5	97.5

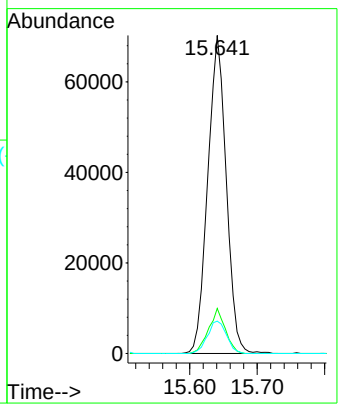




#95
Naphthalene
Concen: 16.553 ug/l
RT: 15.641 min Scan# 23
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion:128 Resp: 133767

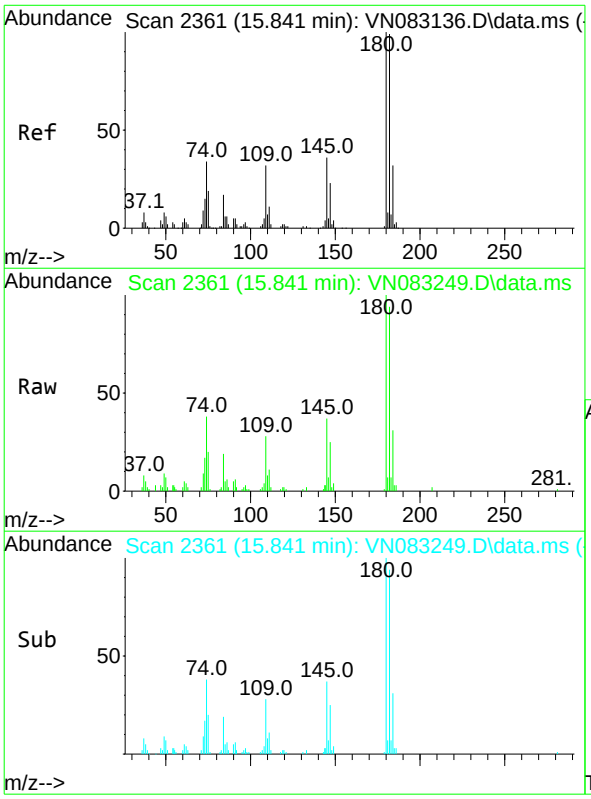
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.6	16.0
129	10.5	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VN0813WBS01

Manual Integrations
APPROVED

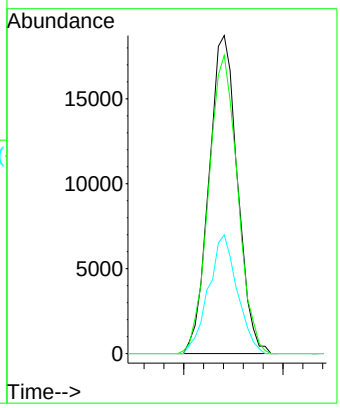
Reviewed By :Mahesh Dadoda 08/14/2024
Supervised By :Semsettin Yesilyurt 08/14/2024



#96
1,2,3-Trichlorobenzene
Concen: 16.529 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. -0.000 min
Lab File: VN083249.D
Acq: 13 Aug 2024 11:40

Tgt Ion:180 Resp: 37313

Ion	Ratio	Lower	Upper
180	100		
182	95.3	48.9	146.8
145	37.6	16.8	50.4



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:	VN0814WBS01	SDG No.:	P3429
Lab Sample ID:	VN0814WBS01	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
VN083298.D	1		08/14/24 14:03	VN081424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.6		0.21	1.00	ug/L
74-87-3	Chloromethane	19.1		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	20.2		0.34	1.00	ug/L
74-83-9	Bromomethane	18.6		1.40	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.8		0.25	1.00	ug/L
67-64-1	Acetone	100		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	16.3		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.0		0.16	1.00	ug/L
75-09-2	Methylene Chloride	19.0		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.7		0.25	1.00	ug/L
110-82-7	Cyclohexane	18.5		1.60	5.00	ug/L
78-93-3	2-Butanone	100		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.1		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.6		0.25	1.00	ug/L
67-66-3	Chloroform	21.3		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.7		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	18.2		0.19	1.00	ug/L
71-43-2	Benzene	20.4		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.5		0.24	1.00	ug/L
79-01-6	Trichloroethene	20.1		0.32	1.00	ug/L
75-27-4	Bromodichloromethane	20.7		0.24	1.00	ug/L
108-88-3	Toluene	20.3		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.5		0.21	1.00	ug/L
124-48-1	Dibromochloromethane	20.6		0.18	1.00	ug/L
127-18-4	Tetrachloroethene	19.6		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.8		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	19.6		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	38.6		0.31	2.00	ug/L
1330-20-7	Total Xylenes	58.1		0.45	3.00	ug/L
95-47-6	o-Xylene	19.5		0.14	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:	VN0814WBS01	SDG No.:	P3429
Lab Sample ID:	VN0814WBS01	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
VN083298.D	1		08/14/24 14:03	VN081424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
98-82-8	Isopropylbenzene	19.3		0.13	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.1		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	56.3		70 (74) - 130 (125)	113%	SPK: 50
1868-53-7	Dibromofluoromethane	54.0		70 (75) - 130 (124)	108%	SPK: 50
2037-26-5	Toluene-d8	53.1		70 (86) - 130 (113)	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.3		70 (77) - 130 (121)	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	165000	8.224			
540-36-3	1,4-Difluorobenzene	284000	9.1			
3114-55-4	Chlorobenzene-d5	251000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	118000	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\VN081424\
Data File : VN083298.D
Acq On : 14 Aug 2024 14:03
Operator : JC\MD
Sample : VN0814WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 23:22:35 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 :
VN0814WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	164632	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	284346	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	250581	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	117869	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	131834	56.259	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.520%			
35) Dibromofluoromethane	8.171	113	95892	54.029	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.060%			
50) Toluene-d8	10.565	98	351385	53.075	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.160%			
62) 4-Bromofluorobenzene	12.847	95	134979	52.296	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.600%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	34716	18.595	ug/l	97
3) Chloromethane	2.365	50	36577	19.136	ug/l	95
4) Vinyl Chloride	2.512	62	39346	20.174	ug/l	99
5) Bromomethane	2.959	94	22519	18.608	ug/l	90
6) Chloroethane	3.112	64	24904	20.410	ug/l	100
7) Trichlorofluoromethane	3.495	101	66745	20.716	ug/l	93
8) Diethyl Ether	3.959	74	23647	19.724	ug/l	85
9) 1,1,2-Trichlorotrifluo...	4.377	101	36883	20.763	ug/l	98
10) Methyl Iodide	4.583	142	36262	15.519	ug/l	98
11) Tert butyl alcohol	5.524	59	47088	96.692	ug/l	99
12) 1,1-Dichloroethene	4.347	96	34241	18.762	ug/l	92
13) Acrolein	4.183	56	23357	73.590	ug/l	96
14) Allyl chloride	5.018	41	63728m	18.479	ug/l	
15) Acrylonitrile	5.718	53	103317	103.155	ug/l	98
16) Acetone	4.436	43	94520	103.081	ug/l	98
17) Carbon Disulfide	4.712	76	87175	16.325	ug/l	97
18) Methyl Acetate	5.030	43	57100	20.901	ug/l #	88
19) Methyl tert-butyl Ether	5.794	73	131685	19.991	ug/l	99
20) Methylene Chloride	5.283	84	40039	18.973	ug/l	85
21) trans-1,2-Dichloroethene	5.789	96	35228	18.677	ug/l	92
22) Diisopropyl ether	6.677	45	130740	20.168	ug/l	98
23) Vinyl Acetate	6.606	43	720397	108.418	ug/l	97
24) 1,1-Dichloroethane	6.571	63	72312	20.465	ug/l	96
25) 2-Butanone	7.483	43	145625	103.431	ug/l	95
26) 2,2-Dichloropropane	7.488	77	67033	20.428	ug/l	100
27) cis-1,2-Dichloroethene	7.488	96	44697	19.638	ug/l	94
28) Bromochloromethane	7.812	49	31073	21.518	ug/l	85
29) Tetrahydrofuran	7.841	42	94074	103.362	ug/l #	89
30) Chloroform	7.971	83	78159	21.291	ug/l	100
31) Cyclohexane	8.259	56	64241	18.499	ug/l	95
32) 1,1,1-Trichloroethane	8.171	97	71974	20.713	ug/l	92
36) 1,1-Dichloropropene	8.371	75	51536	19.195	ug/l	99
37) Ethyl Acetate	7.559	43	58610	19.497	ug/l #	96
38) Carbon Tetrachloride	8.359	117	60835	20.118	ug/l	99
39) Methylcyclohexane	9.600	83	60089	18.222	ug/l	97
40) Benzene	8.612	78	163247	20.411	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081424\
Data File : VN083298.D
Acq On : 14 Aug 2024 14:03
Operator : JC\MD
Sample : VN0814WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 23:22:35 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 :
VN0814WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	33603	19.660	ug/l		97
42) 1,2-Dichloroethane	8.671	62	62700	21.520	ug/l		100
43) Isopropyl Acetate	8.688	43	103775	18.485	ug/l		94
44) Trichloroethene	9.353	130	38223	20.078	ug/l		99
45) 1,2-Dichloropropane	9.624	63	40150	21.148	ug/l		98
46) Dibromomethane	9.712	93	29327	21.581	ug/l		96
47) Bromodichloromethane	9.888	83	63079	20.673	ug/l		100
48) Methyl methacrylate	9.682	41	46397	18.669	ug/l	#	90
49) 1,4-Dioxane	9.694	88	18902	421.571	ug/l	#	93
51) 4-Methyl-2-Pentanone	10.447	43	299875	105.490	ug/l		93
52) Toluene	10.629	92	102822	20.347	ug/l		99
53) t-1,3-Dichloropropene	10.835	75	61891	19.747	ug/l		98
54) cis-1,3-Dichloropropene	10.312	75	64711	19.411	ug/l		92
55) 1,1,2-Trichloroethane	11.018	97	38882	21.469	ug/l		97
56) Ethyl methacrylate	10.876	69	66534	19.488	ug/l	#	88
57) 1,3-Dichloropropane	11.165	76	67303	20.850	ug/l		97
58) 2-Chloroethyl Vinyl ether	10.159	63	133714	92.654	ug/l		96
59) 2-Hexanone	11.194	43	226634	103.052	ug/l		93
60) Dibromochloromethane	11.359	129	45197	20.642	ug/l		99
61) 1,2-Dibromoethane	11.470	107	39209	20.609	ug/l		99
64) Tetrachloroethene	11.100	164	32564	19.622	ug/l		96
65) Chlorobenzene	11.894	112	109477	19.770	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.959	131	38818	19.876	ug/l		98
67) Ethyl Benzene	11.965	91	199315	19.621	ug/l		100
68) m/p-Xylenes	12.070	106	146923	38.610	ug/l		96
69) o-Xylene	12.400	106	73227	19.511	ug/l		100
70) Styrene	12.412	104	123747	19.632	ug/l		98
71) Bromoform	12.576	173	28667	19.376	ug/l	#	99
73) Isopropylbenzene	12.694	105	189904	19.262	ug/l		99
74) N-amyl acetate	12.494	43	87695	18.185	ug/l		95
75) 1,1,2,2-Tetrachloroethane	12.935	83	55881	20.040	ug/l		100
76) 1,2,3-Trichloropropane	12.994	75	51046m	19.732	ug/l		
77) Bromobenzene	12.982	156	44274	20.216	ug/l		99
78) n-propylbenzene	13.035	91	221023	19.470	ug/l		100
79) 2-Chlorotoluene	13.123	91	139743	19.416	ug/l		97
80) 1,3,5-Trimethylbenzene	13.170	105	162894	19.735	ug/l		96
81) trans-1,4-Dichloro-2-b...	12.735	75	21751	18.289	ug/l		95
82) 4-Chlorotoluene	13.223	91	138990	19.252	ug/l		97
83) tert-Butylbenzene	13.441	119	140176	19.177	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	162074	19.484	ug/l		100
85) sec-Butylbenzene	13.617	105	191578	19.208	ug/l		98
86) p-Isopropyltoluene	13.729	119	158838	19.287	ug/l		97
87) 1,3-Dichlorobenzene	13.735	146	79688	19.337	ug/l		98
88) 1,4-Dichlorobenzene	13.812	146	79466	19.128	ug/l		95
89) n-Butylbenzene	14.059	91	134766	18.886	ug/l		98
90) Hexachloroethane	14.335	117	28843	18.128	ug/l		94
91) 1,2-Dichlorobenzene	14.106	146	76195	19.107	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.717	75	12319	18.206	ug/l		97
93) 1,2,4-Trichlorobenzene	15.388	180	41092	18.393	ug/l		98
94) Hexachlorobutadiene	15.506	225	17266	17.378	ug/l		99
95) Naphthalene	15.641	128	145278	18.358	ug/l		99
96) 1,2,3-Trichlorobenzene	15.841	180	40786	18.450	ug/l		95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081424\
Data File : VN083298.D
Acq On : 14 Aug 2024 14:03
Operator : JC\MD
Sample : VN0814WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 14 23:22:35 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 :
VN0814WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

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

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

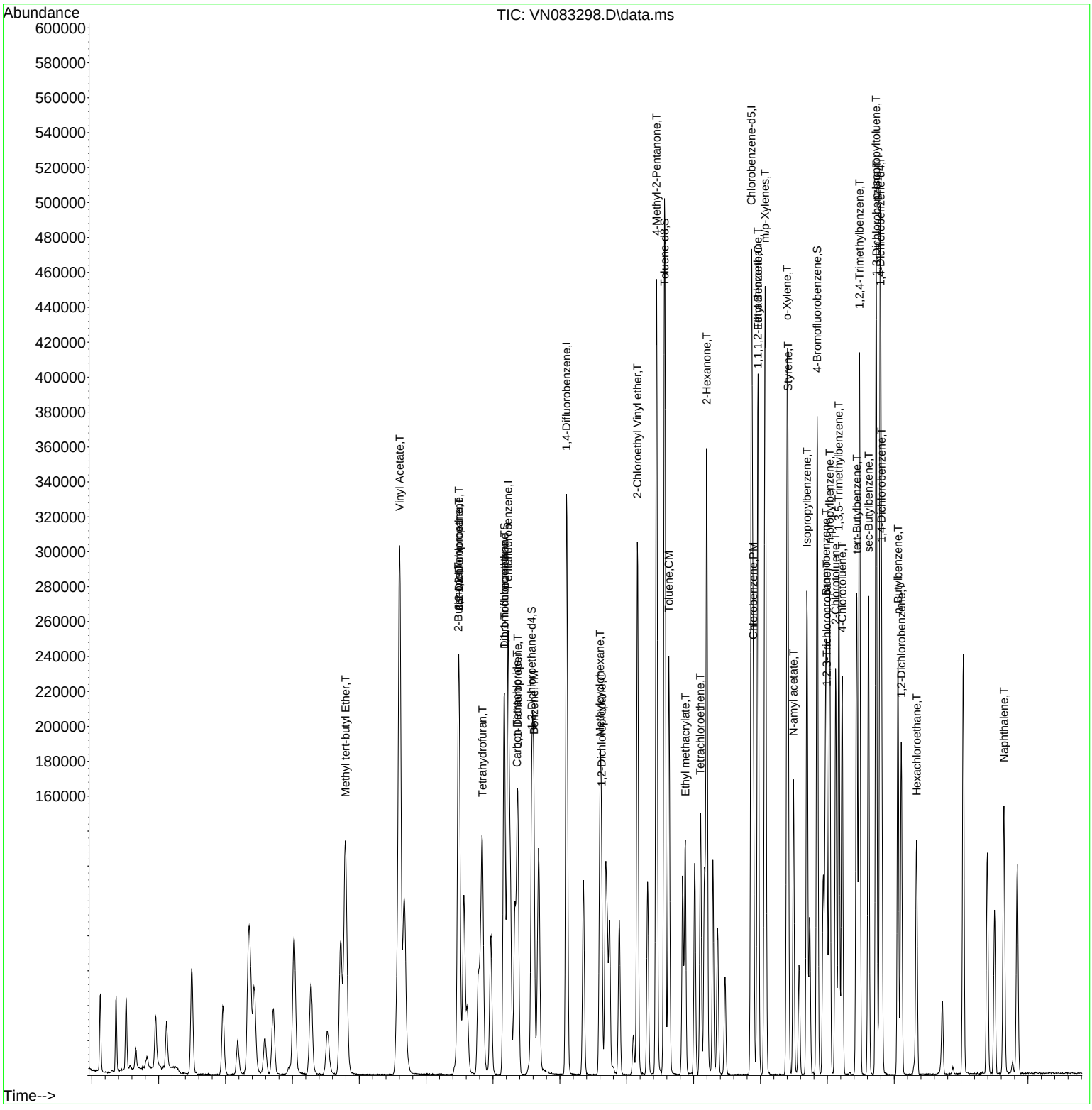
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081424\
Data File : VN083298.D
Acq On : 14 Aug 2024 14:03
Operator : JC\MD
Sample : VN0814WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

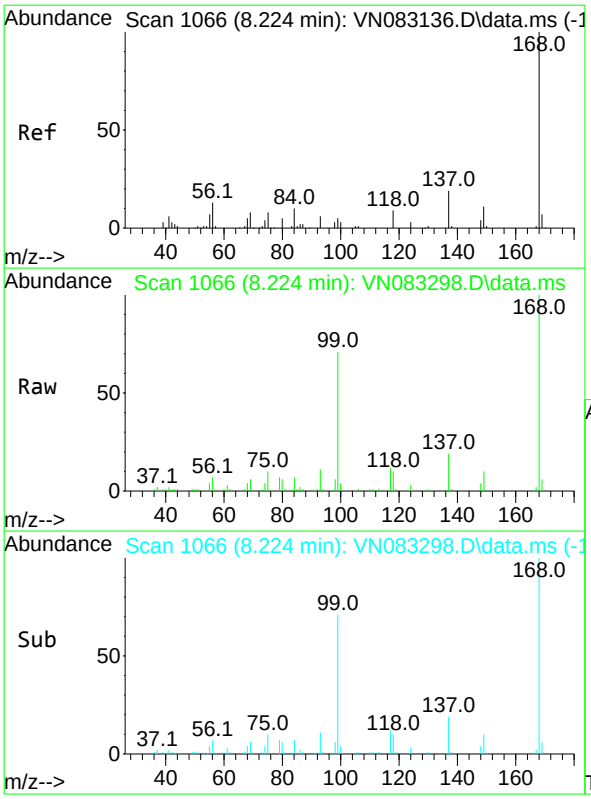
Quant Time: Aug 14 23:22:35 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

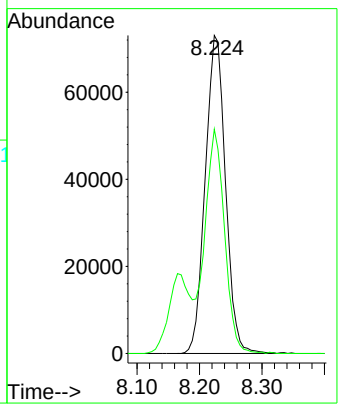




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion:168 Resp: 164632

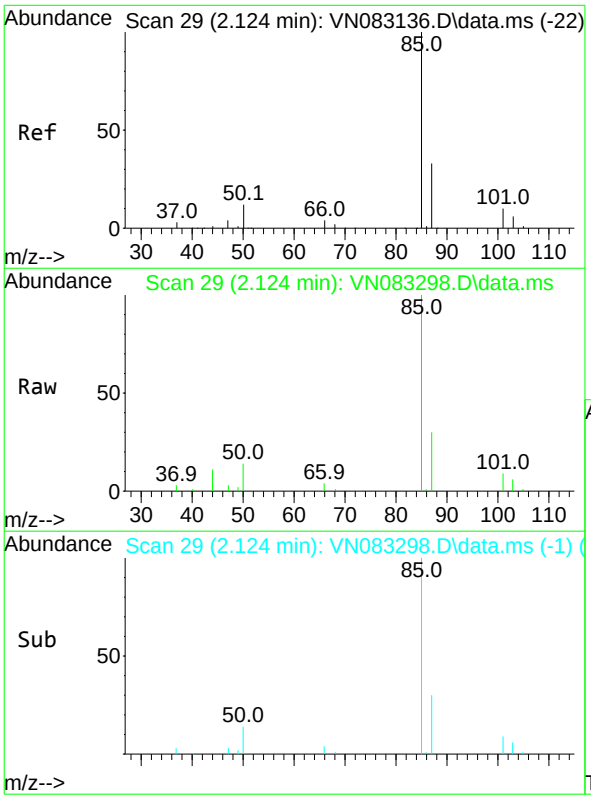
Ion	Ratio	Lower	Upper
168	100		
99	70.5	48.2	72.4



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations APPROVED

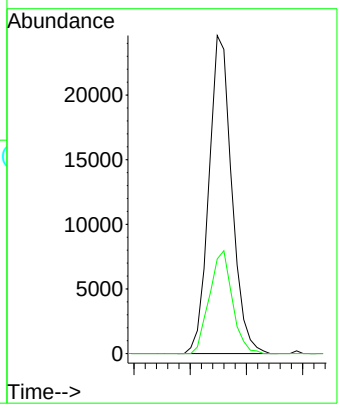
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

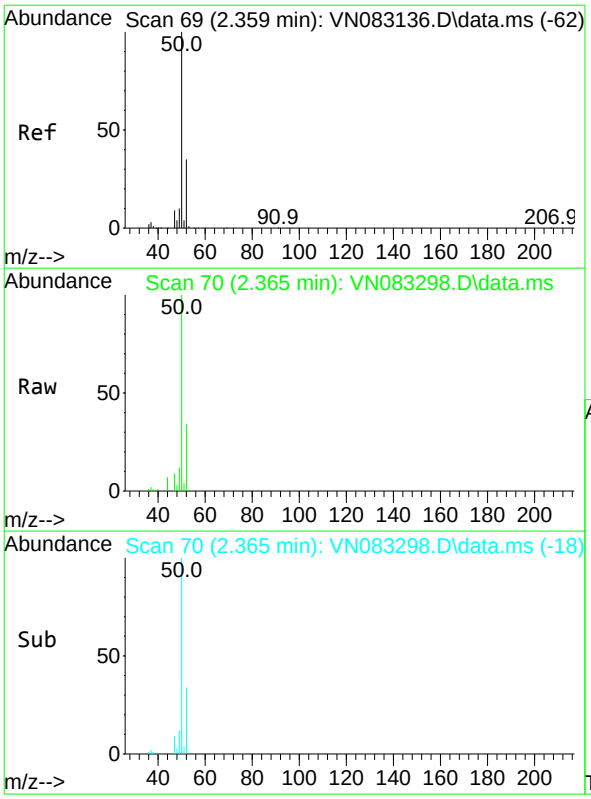


#2
Dichlorodifluoromethane
Concen: 18.595 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 85 Resp: 34716

Ion	Ratio	Lower	Upper
85	100		
87	29.7	15.7	47.0

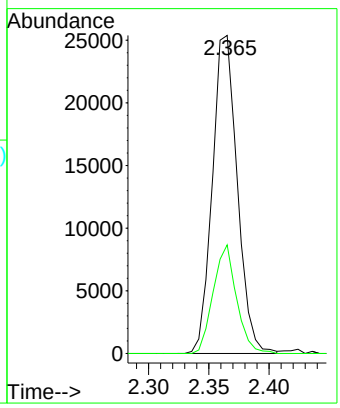




#3
Chloromethane
Concen: 19.136 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 50 Resp: 36577

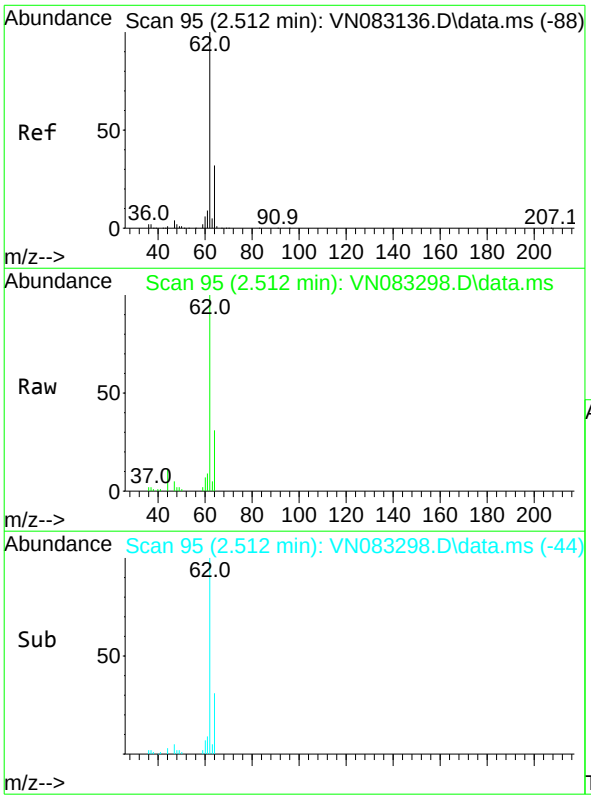
Ion	Ratio	Lower	Upper
50	100		
52	34.2	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations
APPROVED

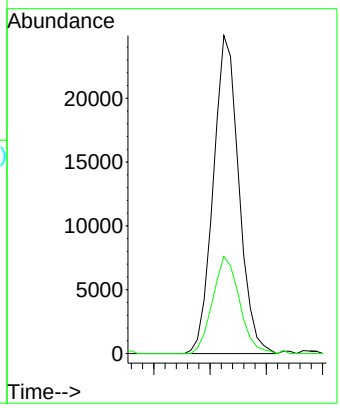
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

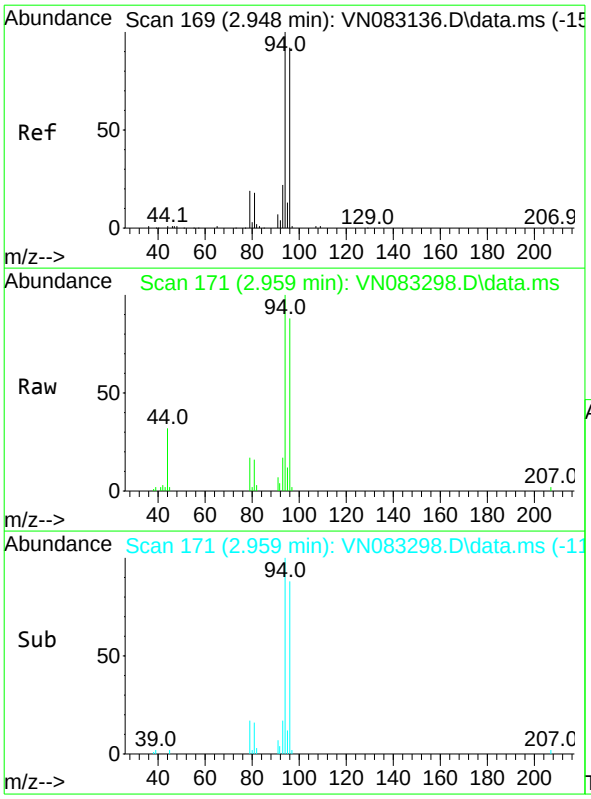


#4
Vinyl Chloride
Concen: 20.174 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 62 Resp: 39346

Ion	Ratio	Lower	Upper
62	100		
64	30.5	25.0	37.6

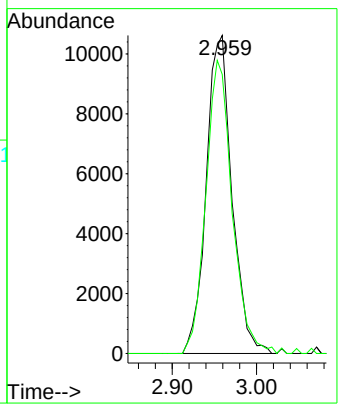




#5
Bromomethane
Concen: 18.608 ug/l
RT: 2.959 min Scan# 17
Delta R.T. 0.012 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 94 Resp: 22519

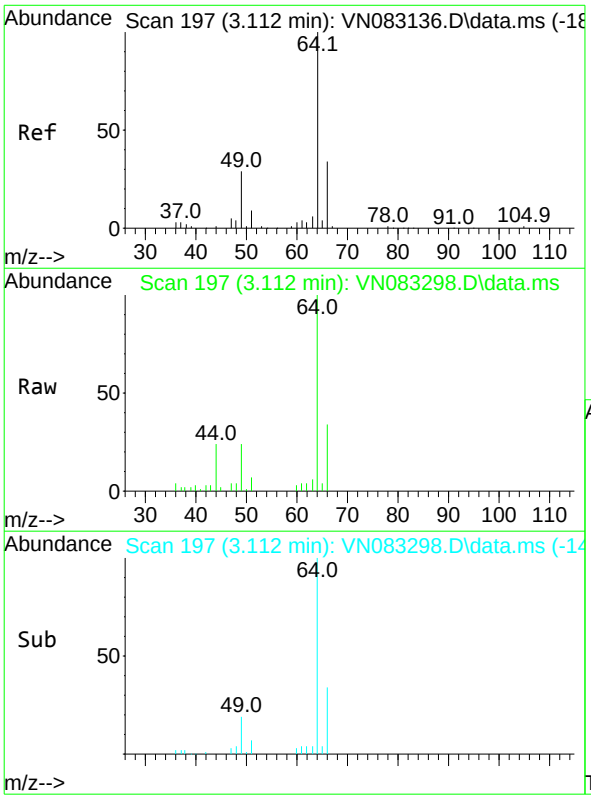
Ion	Ratio	Lower	Upper
94	100		
96	87.7	78.0	117.0



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations
APPROVED

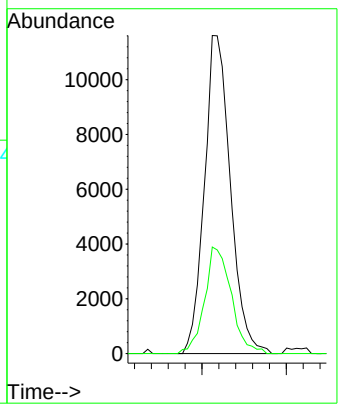
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

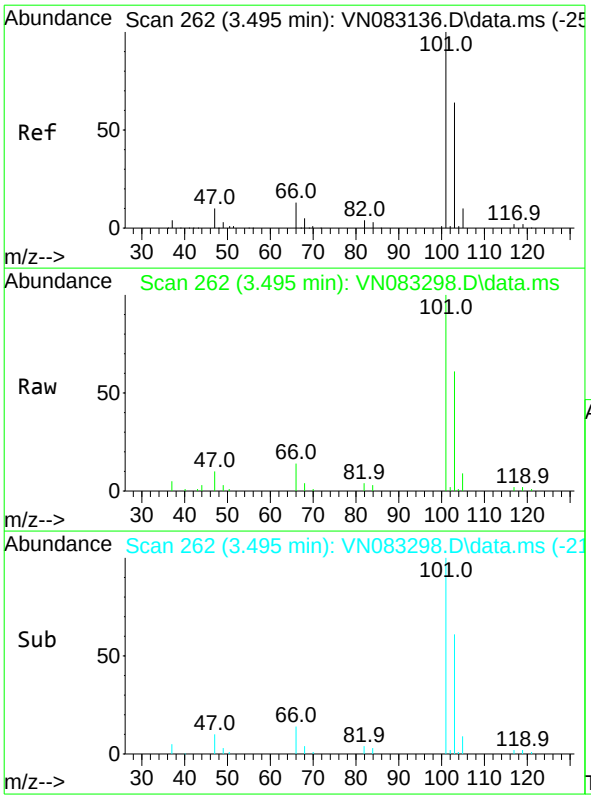


#6
Chloroethane
Concen: 20.410 ug/l
RT: 3.112 min Scan# 197
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 64 Resp: 24904

Ion	Ratio	Lower	Upper
64	100		
66	33.5	26.6	40.0

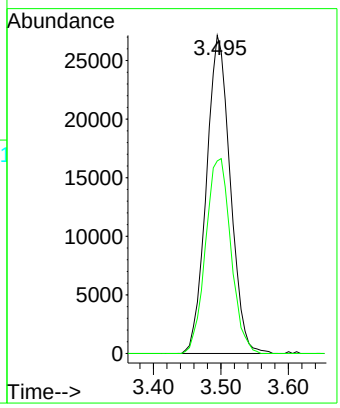




#7
Trichlorofluoromethane
Concen: 20.716 ug/l
RT: 3.495 min Scan# 26
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion:101 Resp: 66745

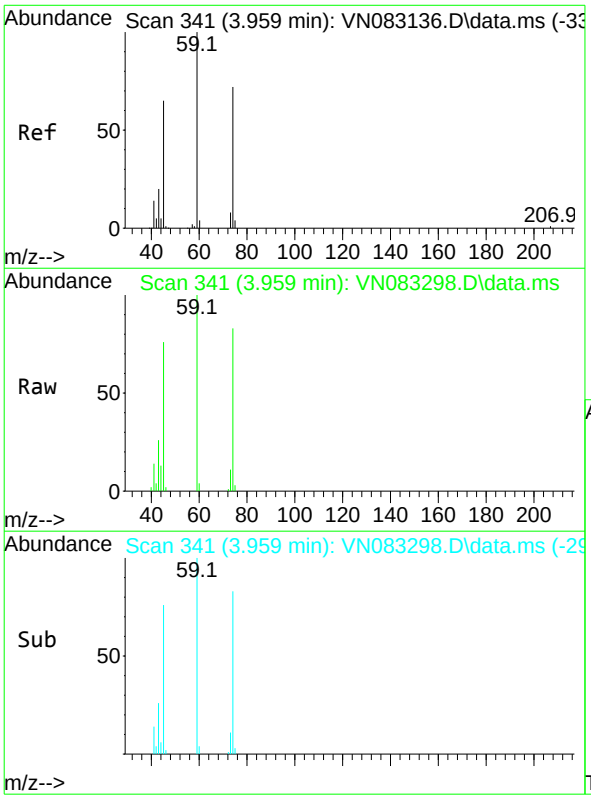
Ion	Ratio	Lower	Upper
101	100		
103	60.5	52.7	79.1



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations
APPROVED

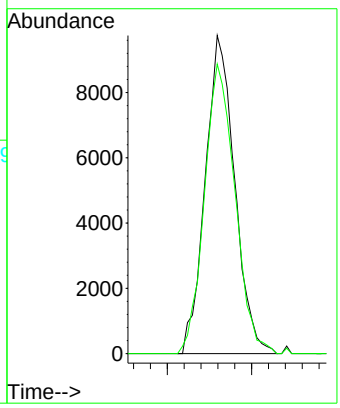
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

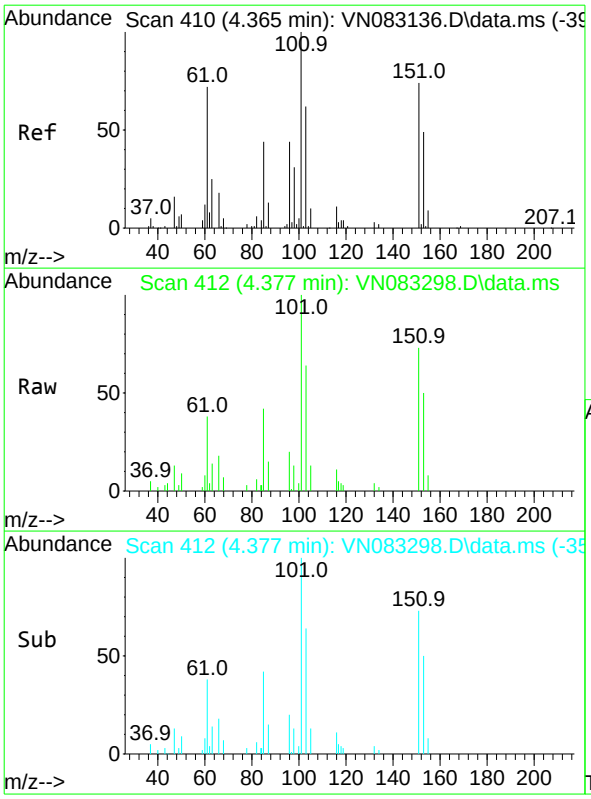


#8
Diethyl Ether
Concen: 19.724 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 74 Resp: 23647

Ion	Ratio	Lower	Upper
74	100		
45	94.5	55.5	166.3

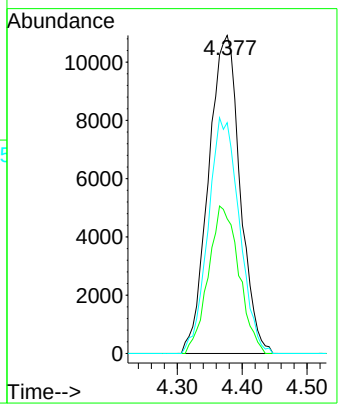




#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.763 ug/l
RT: 4.377 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion:101 Resp: 36883

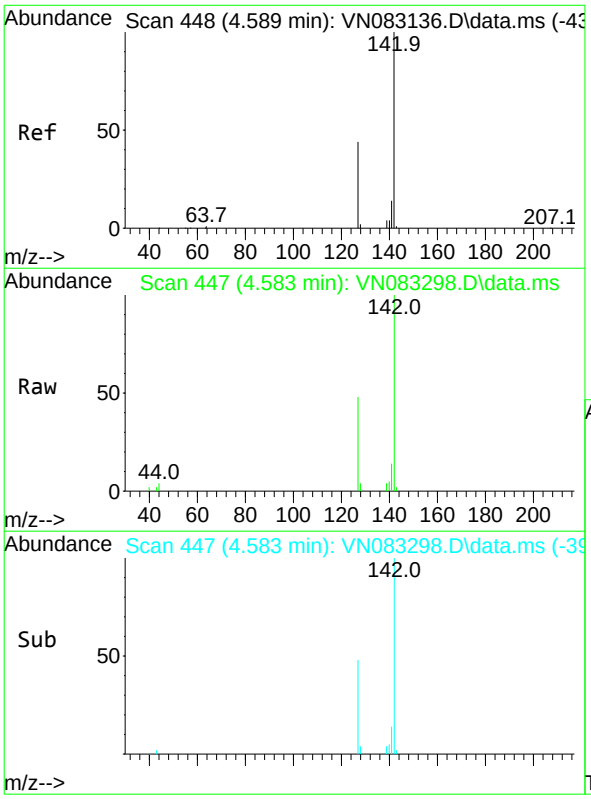
Ion	Ratio	Lower	Upper
101	100		
85	44.9	38.3	57.5
151	73.2	59.3	88.9



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations APPROVED

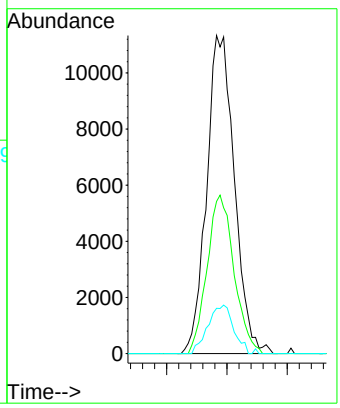
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

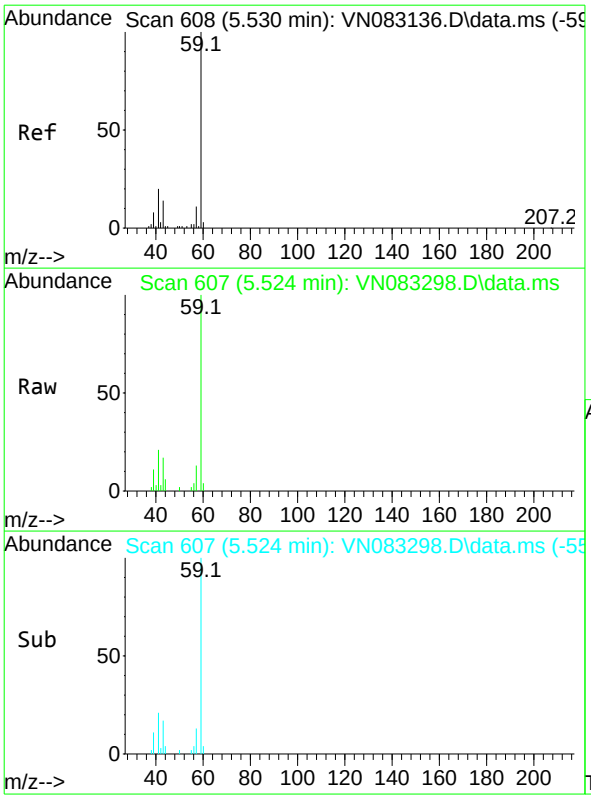


#10
Methyl Iodide
Concen: 15.519 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.006 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion:142 Resp: 36262

Ion	Ratio	Lower	Upper
142	100		
127	47.9	37.5	56.3
141	14.2	13.1	19.7

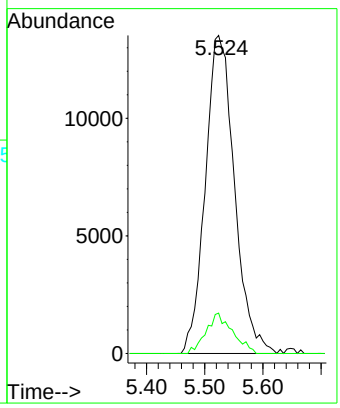




#11
Tert butyl alcohol
Concen: 96.692 ug/l
RT: 5.524 min Scan# 60
Delta R.T. -0.006 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 59 Resp: 47088

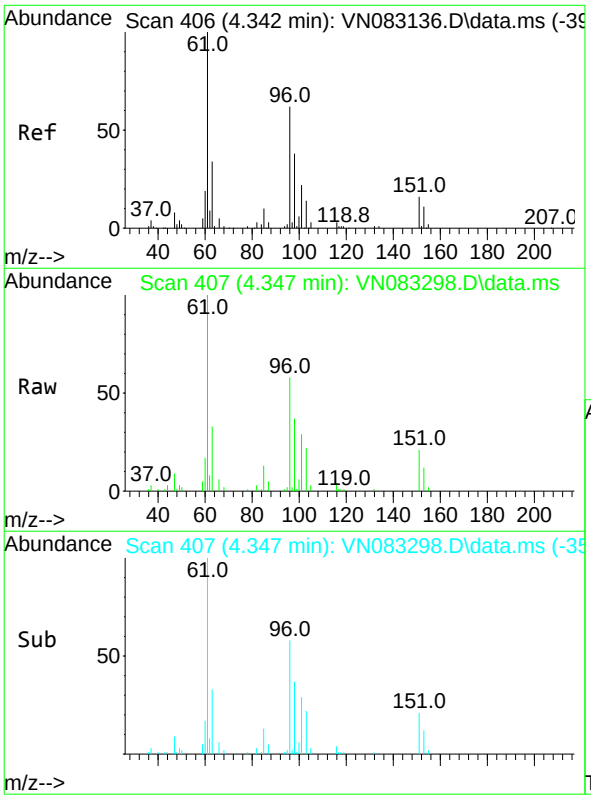
Ion	Ratio	Lower	Upper
59	100		
57	11.5	8.9	13.3



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations
APPROVED

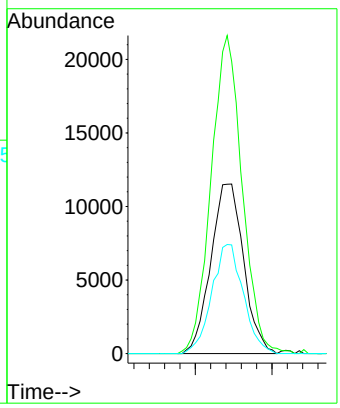
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

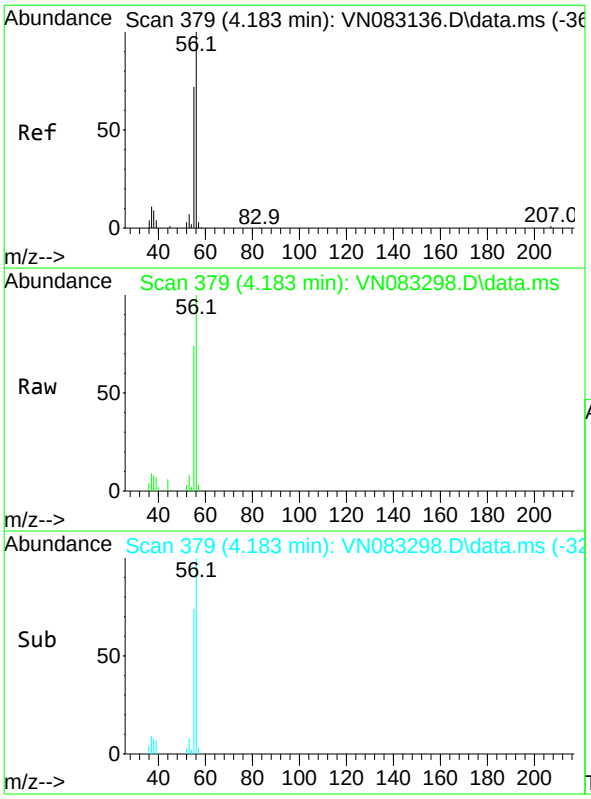


#12
1,1-Dichloroethene
Concen: 18.762 ug/l
RT: 4.347 min Scan# 407
Delta R.T. 0.006 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 96 Resp: 34241

Ion	Ratio	Lower	Upper
96	100		
61	172.3	149.7	224.5
98	64.1	50.1	75.1

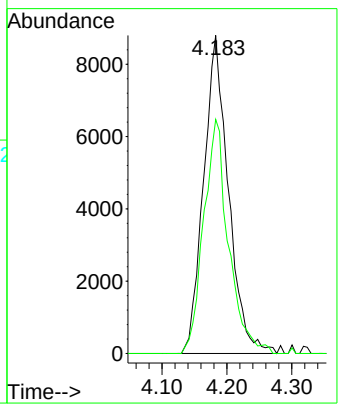




#13
Acrolein
Concen: 73.590 ug/l
RT: 4.183 min Scan# 37
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 56 Resp: 23357

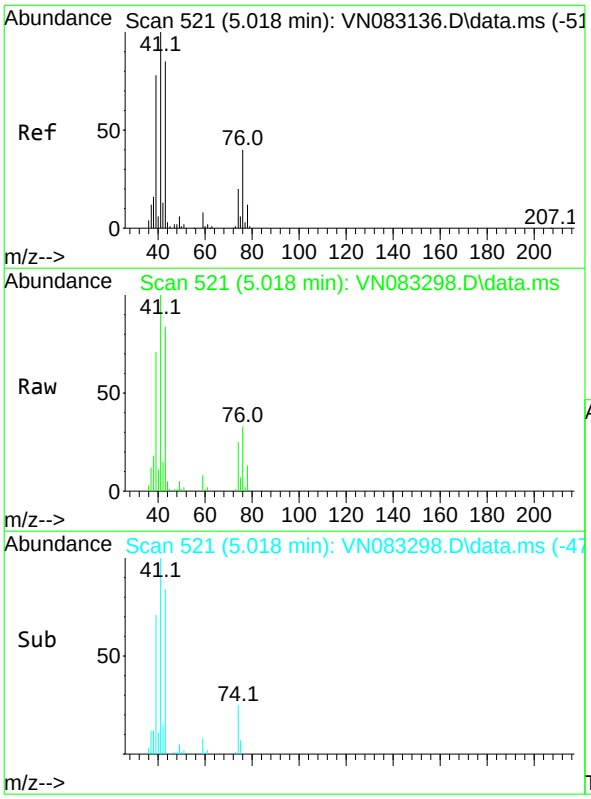
Ion	Ratio	Lower	Upper
56	100		
55	73.8	56.4	84.6



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations APPROVED

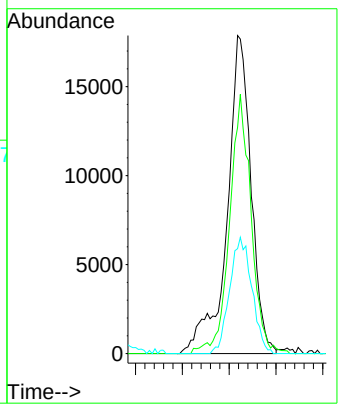
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

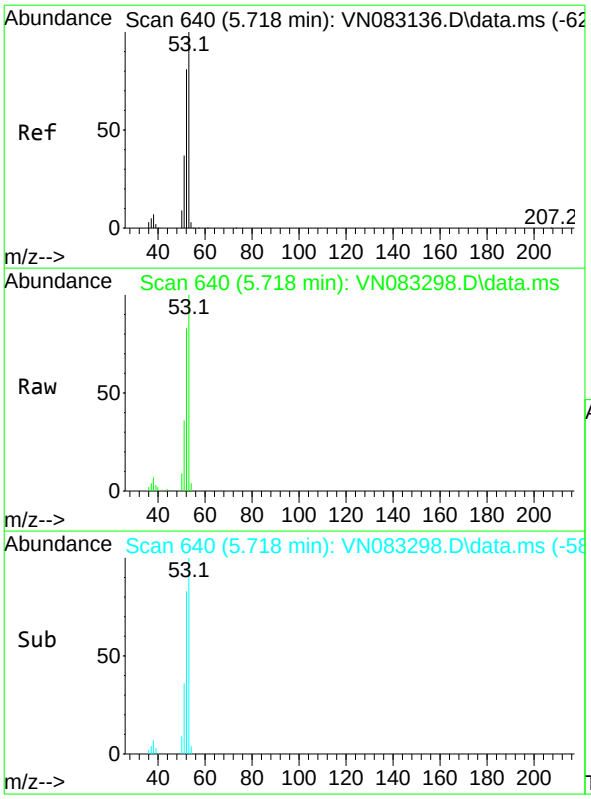


#14
Allyl chloride
Concen: 18.479 ug/l m
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 41 Resp: 63728

Ion	Ratio	Lower	Upper
41	100		
39	72.9	67.8	101.6
76	33.7	25.8	38.8

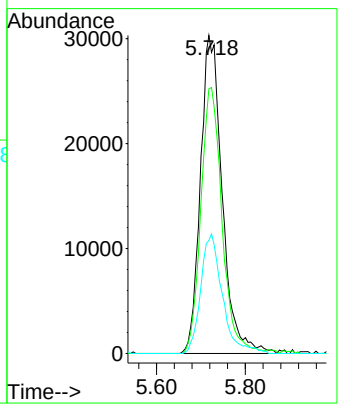




#15
Acrylonitrile
Concen: 103.155 ug/l
RT: 5.718 min Scan# 64
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 53 Resp: 103317

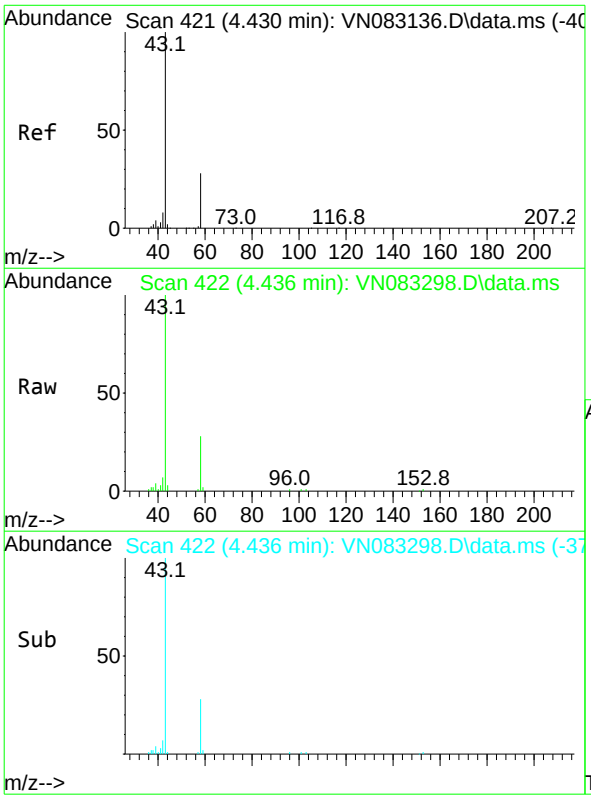
Ion	Ratio	Lower	Upper
53	100		
52	81.2	66.6	100.0
51	37.3	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations
APPROVED

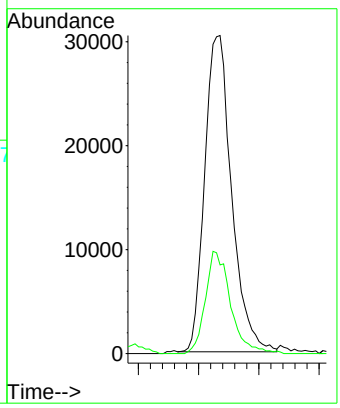
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

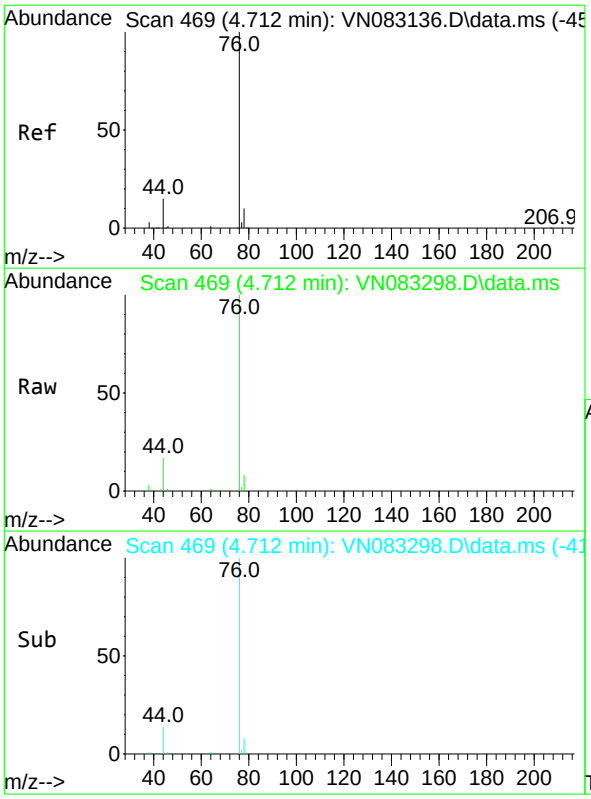


#16
Acetone
Concen: 103.081 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.006 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 43 Resp: 94520

Ion	Ratio	Lower	Upper
43	100		
58	28.0	21.8	32.6

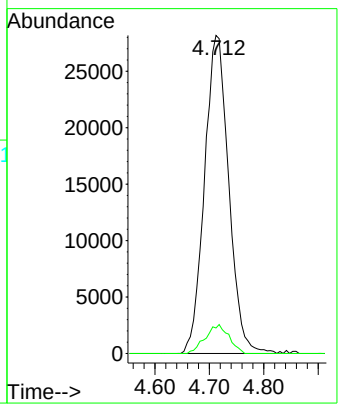




#17
Carbon Disulfide
Concen: 16.325 ug/l
RT: 4.712 min Scan# 46
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 76 Resp: 87175

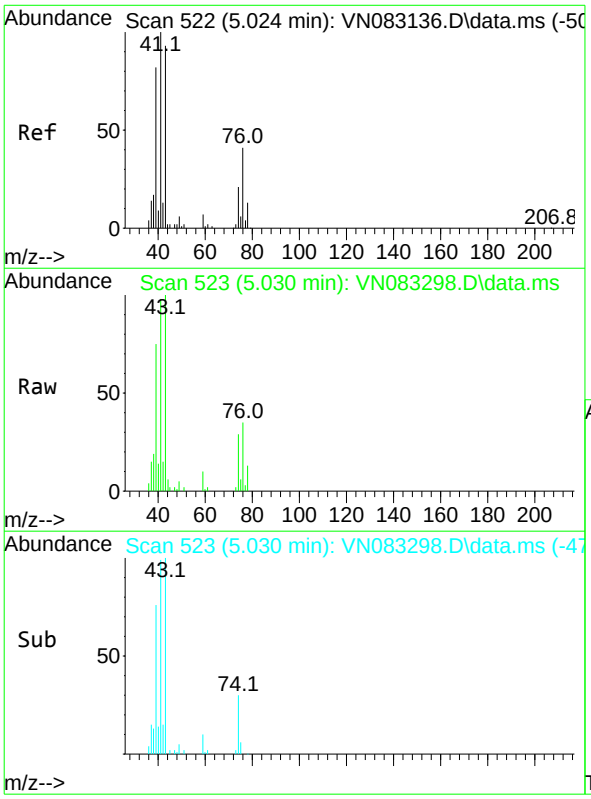
Ion	Ratio	Lower	Upper
76	100		
78	8.0	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations APPROVED

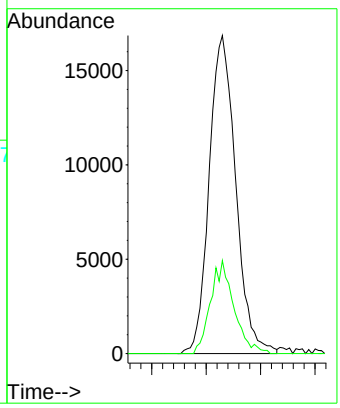
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

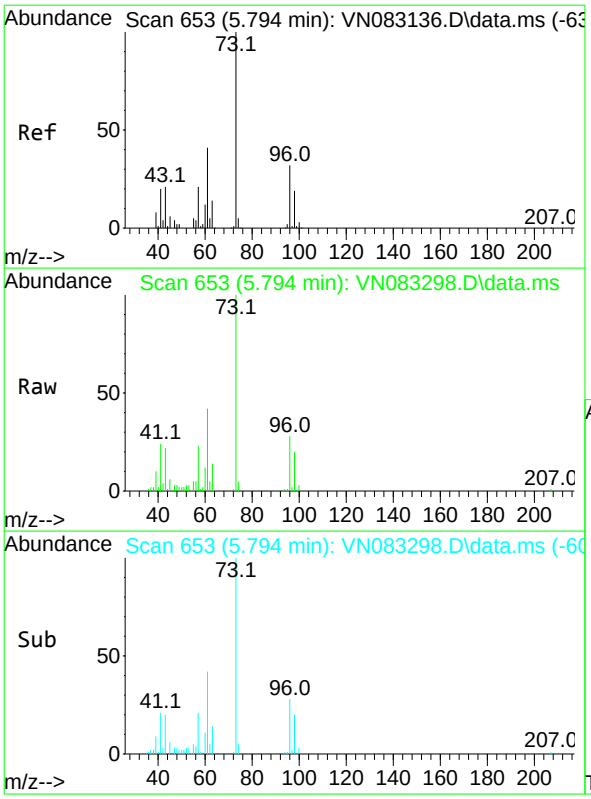


#18
Methyl Acetate
Concen: 20.901 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.006 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 43 Resp: 57100

Ion	Ratio	Lower	Upper
43	100		
74	25.8	16.3	24.5#

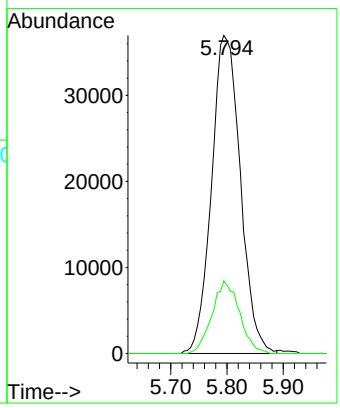




#19
Methyl tert-butyl Ether
Concen: 19.991 ug/l
RT: 5.794 min Scan# 65
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 73 Resp: 131685

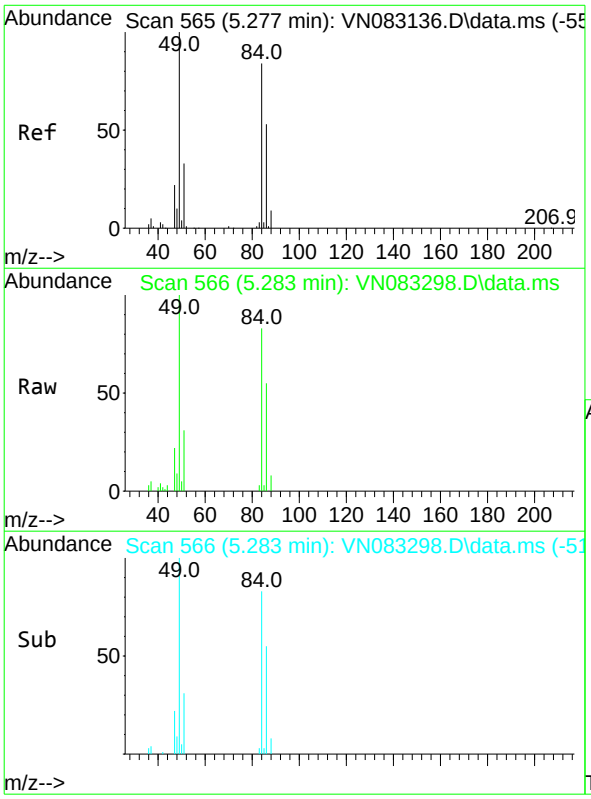
Ion	Ratio	Lower	Upper
73	100		
57	22.8	17.9	26.9



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations APPROVED

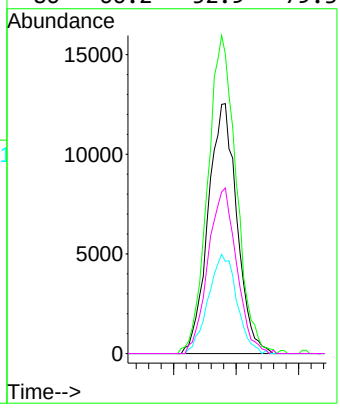
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

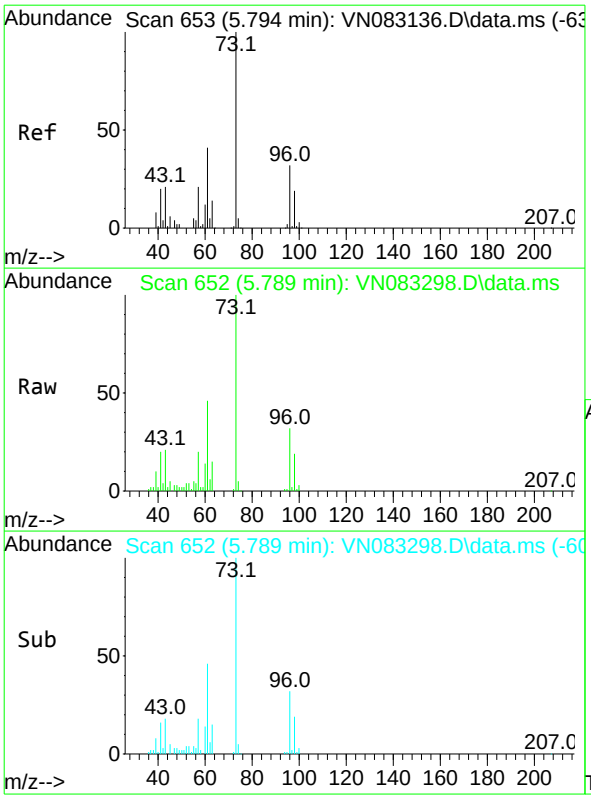


#20
Methylene Chloride
Concen: 18.973 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.006 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 84 Resp: 40039

Ion	Ratio	Lower	Upper
84	100		
49	119.8	119.6	179.4
51	36.9	34.8	52.2
86	66.2	52.9	79.3

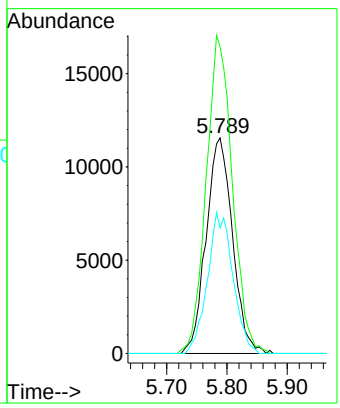




#21
trans-1,2-Dichloroethene
Concen: 18.677 ug/l
RT: 5.789 min Scan# 65
Delta R.T. -0.006 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 96 Resp: 35228

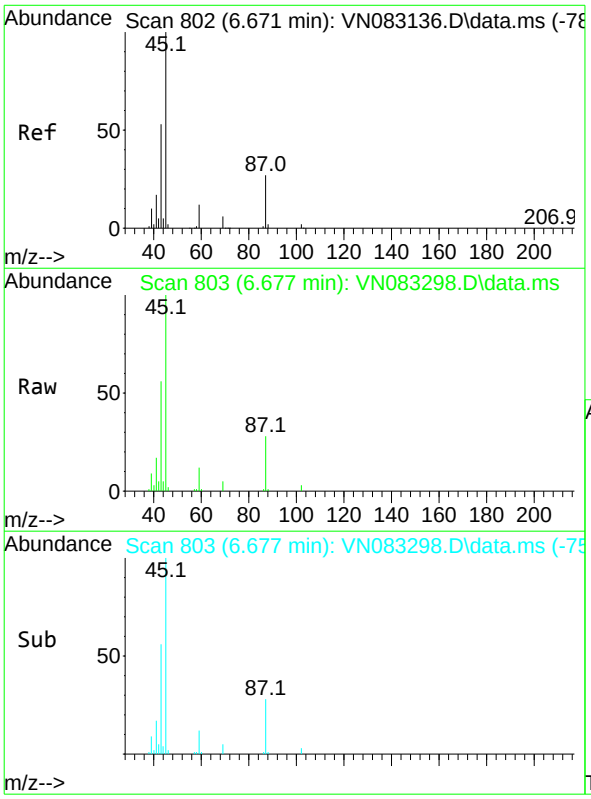
Ion	Ratio	Lower	Upper
96	100		
61	142.3	123.4	185.2
98	58.3	49.3	73.9



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations
APPROVED

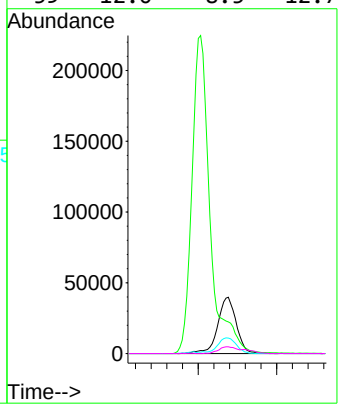
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

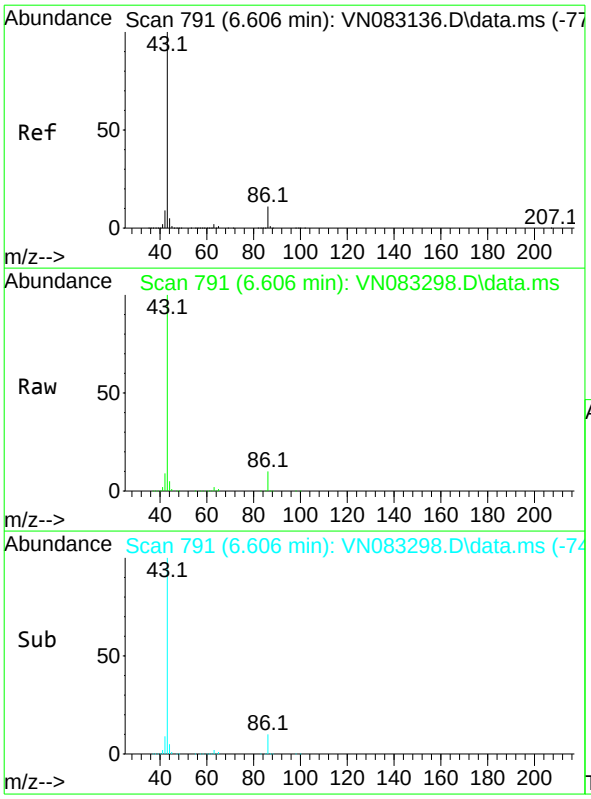


#22
Diisopropyl ether
Concen: 20.168 ug/l
RT: 6.677 min Scan# 803
Delta R.T. 0.006 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 45 Resp: 130740

Ion	Ratio	Lower	Upper
45	100		
43	54.8	44.0	66.0
87	27.6	19.7	29.5
59	12.0	8.5	12.7

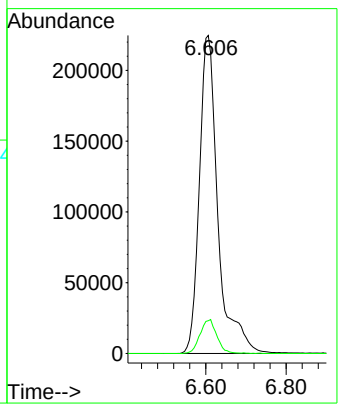




#23
Vinyl Acetate
Concen: 108.418 ug/l
RT: 6.606 min Scan# 79
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 43 Resp: 720397

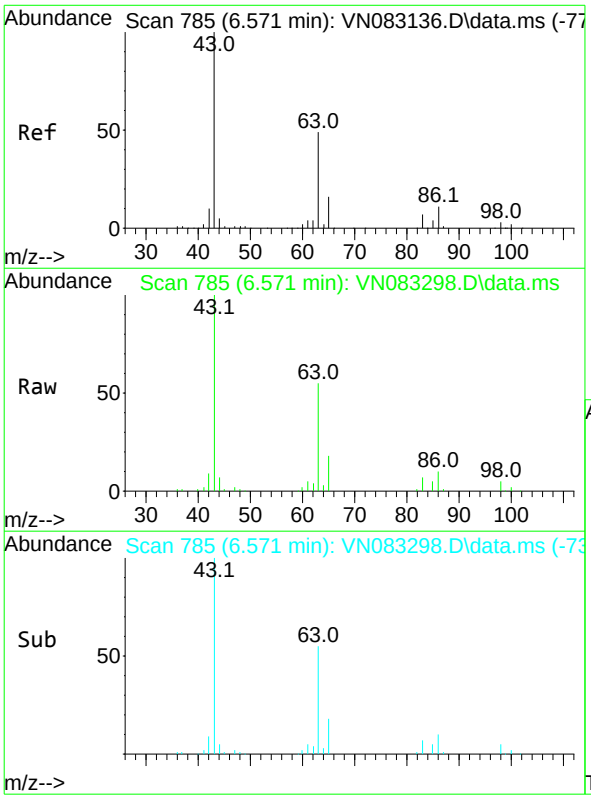
Ion	Ratio	Lower	Upper
43	100		
86	10.3	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations
APPROVED

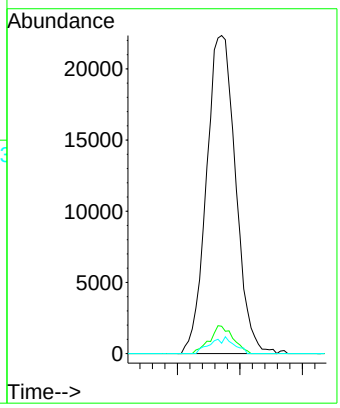
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

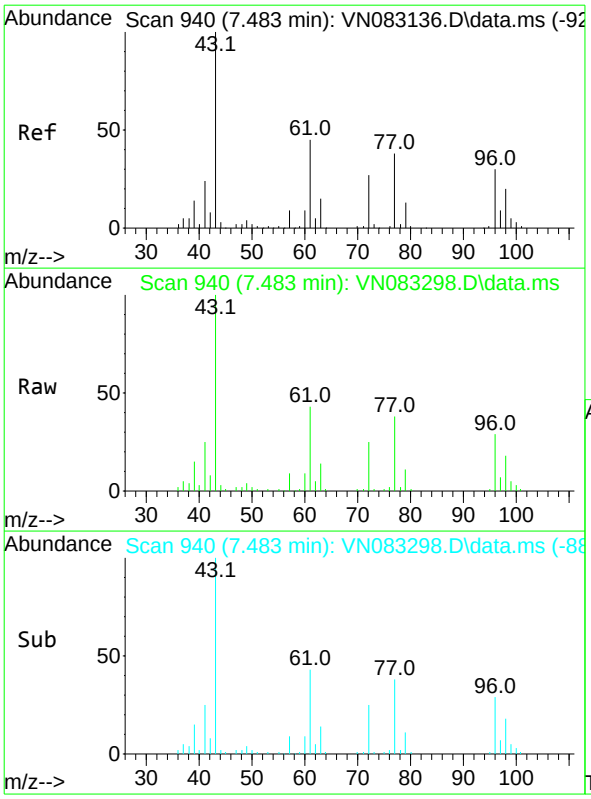


#24
1,1-Dichloroethane
Concen: 20.465 ug/l
RT: 6.571 min Scan# 785
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 63 Resp: 72312

Ion	Ratio	Lower	Upper
63	100		
98	8.6	3.3	9.9
100	3.2	2.0	6.0

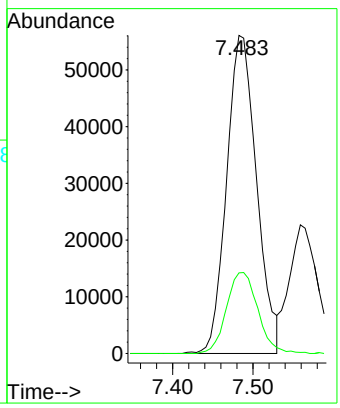




#25
2-Butanone
Concen: 103.431 ug/l
RT: 7.483 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 43 Resp: 145625

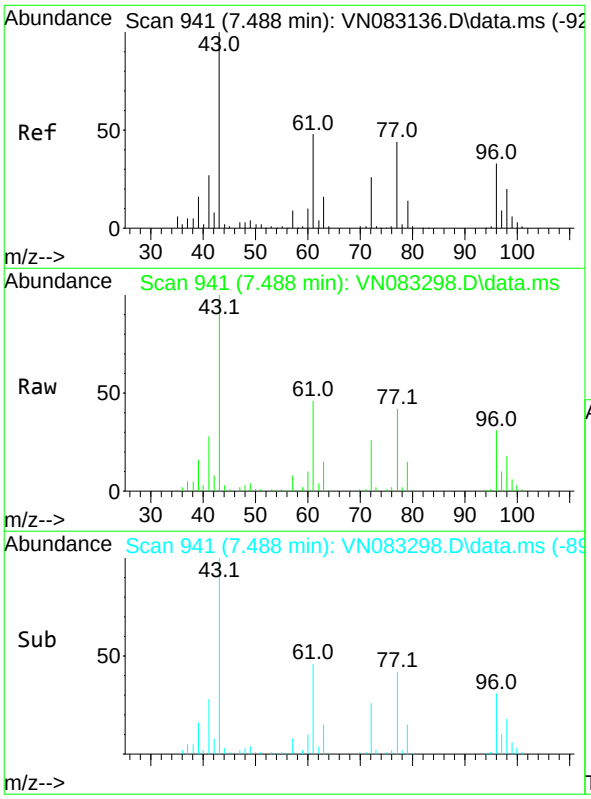
Ion	Ratio	Lower	Upper
43	100		
72	25.3	18.2	27.2



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations APPROVED

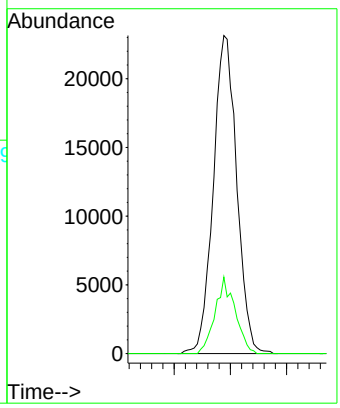
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

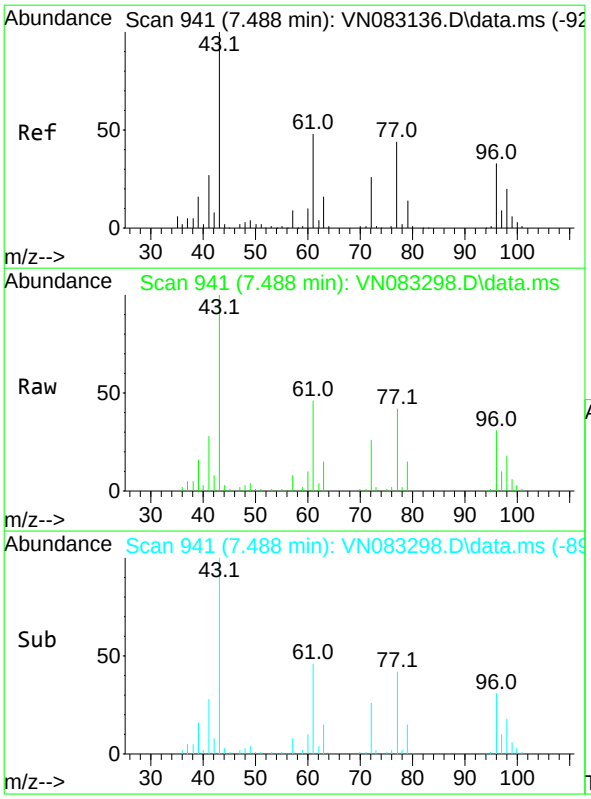


#26
2,2-Dichloropropane
Concen: 20.428 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 77 Resp: 67033

Ion	Ratio	Lower	Upper
77	100		
97	20.5	10.3	30.9





#27
cis-1,2-Dichloroethene
Concen: 19.638 ug/l
RT: 7.488 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

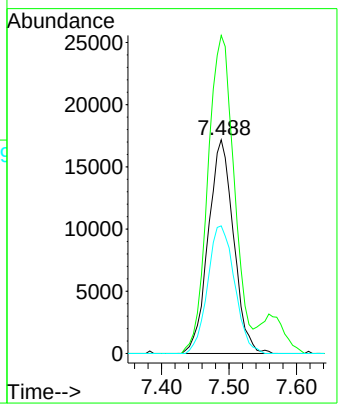
Tgt Ion: 96 Resp: 44697

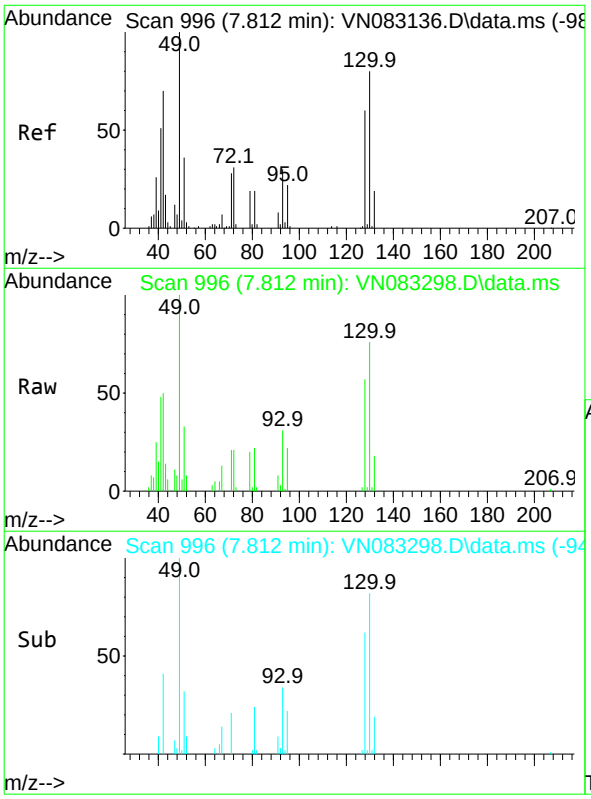
Ion	Ratio	Lower	Upper
96	100		
61	154.6	0.0	329.6
98	63.5	0.0	128.6

Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

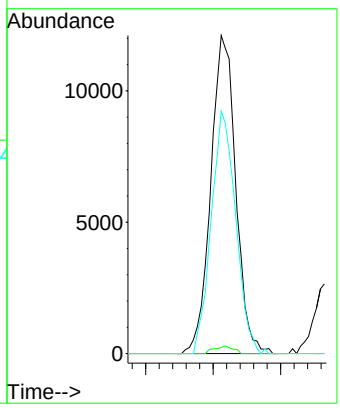


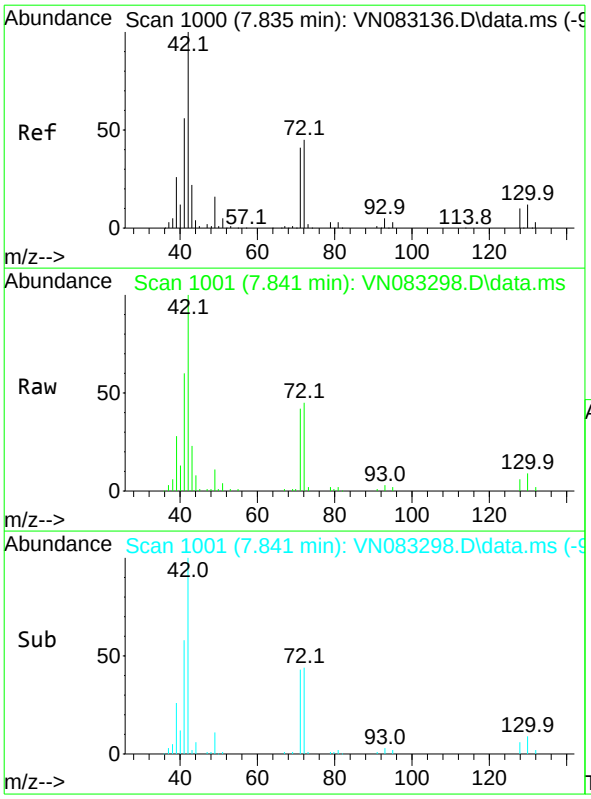


#28
Bromochloromethane
Concen: 21.518 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 49 Resp: 31073

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.8
130	74.9	50.5	75.7

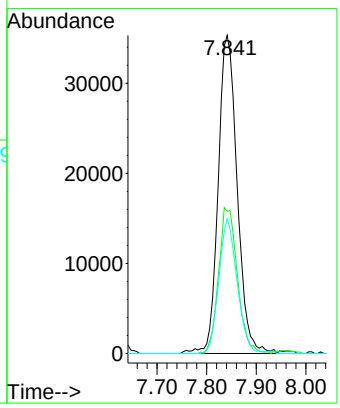




#29
Tetrahydrofuran
Concen: 103.362 ug/l
RT: 7.841 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 42 Resp: 94074

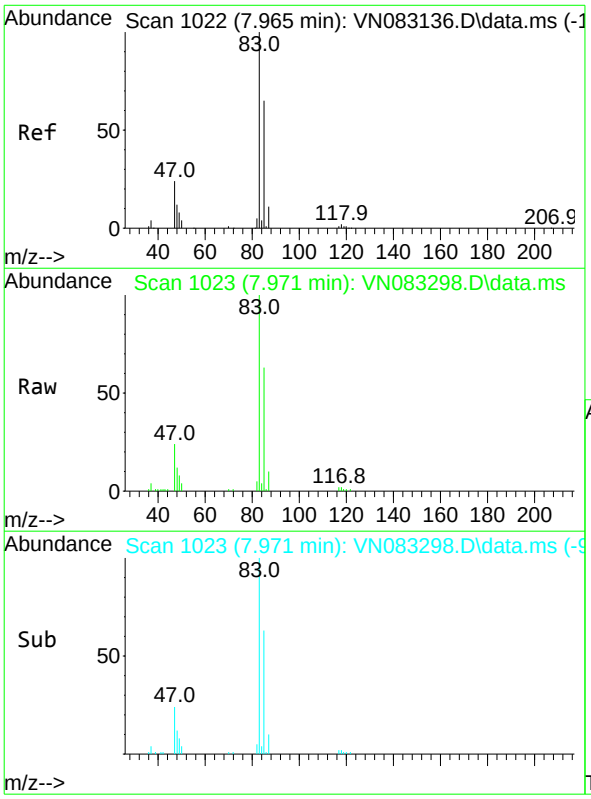
Ion	Ratio	Lower	Upper
42	100		
72	45.4	30.0	45.0#
71	40.6	28.3	42.5



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations
APPROVED

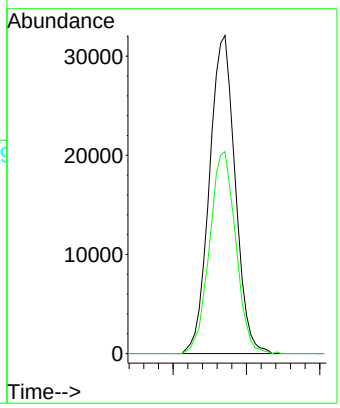
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

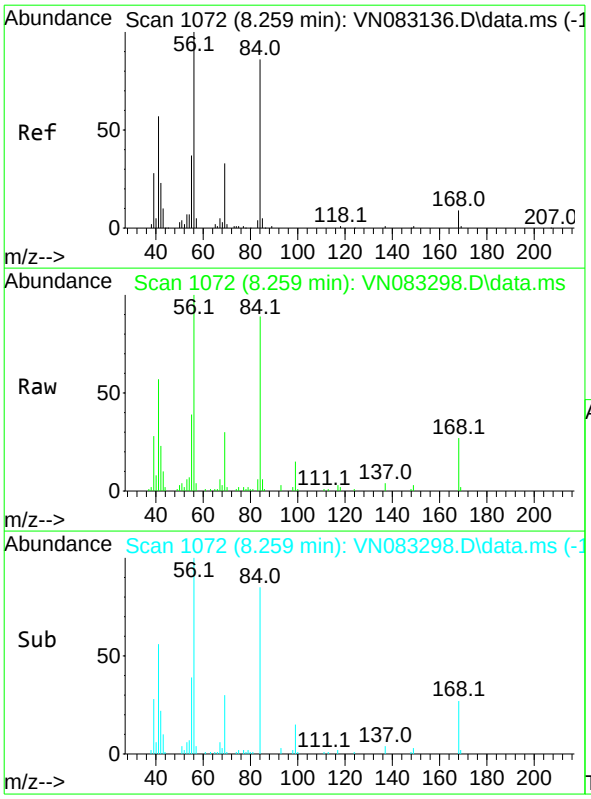


#30
Chloroform
Concen: 21.291 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. 0.006 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 83 Resp: 78159

Ion	Ratio	Lower	Upper
83	100		
85	63.5	50.9	76.3

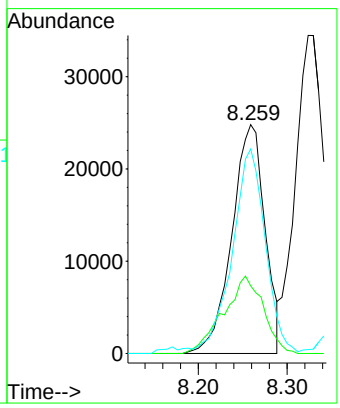




#31
Cyclohexane
Concen: 18.499 ug/l
RT: 8.259 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 56 Resp: 64241

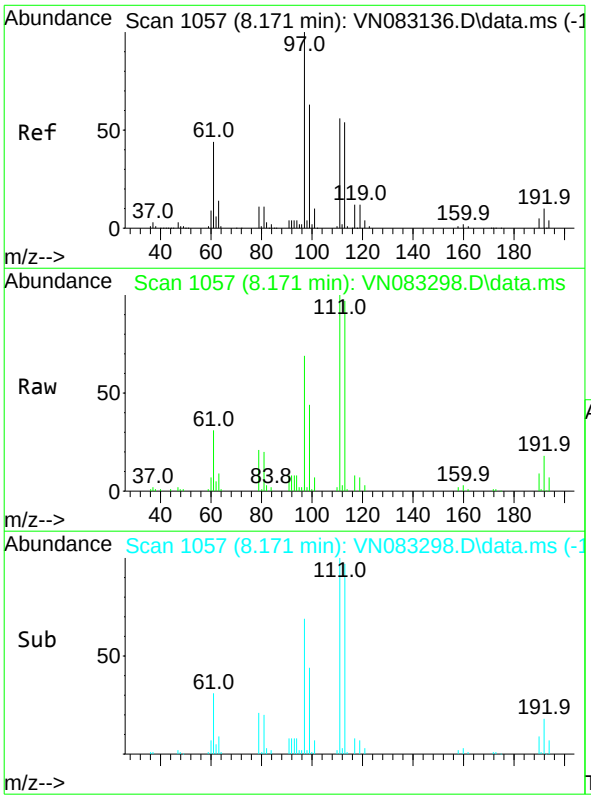
Ion	Ratio	Lower	Upper
56	100		
69	29.5	24.5	36.7
84	87.9	66.0	99.0



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations APPROVED

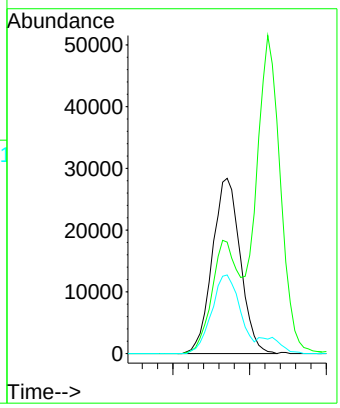
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

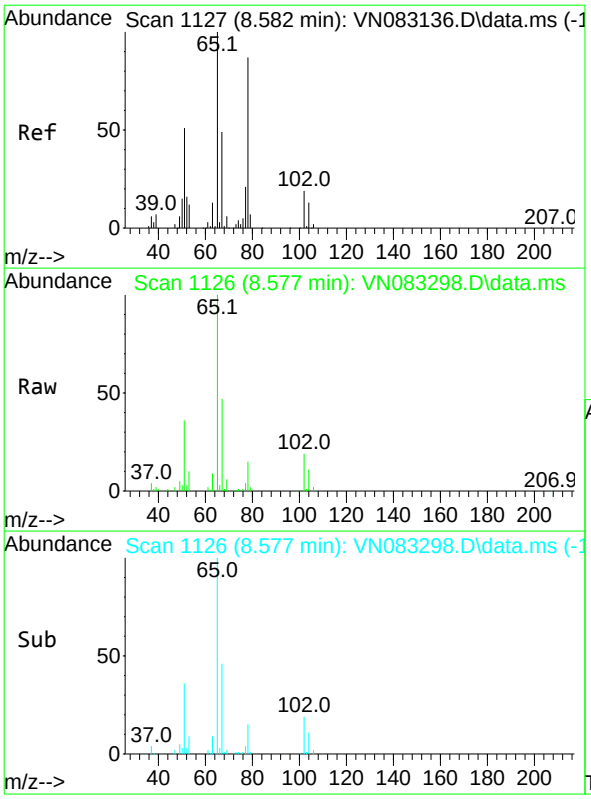


#32
1,1,1-Trichloroethane
Concen: 20.713 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 97 Resp: 71974

Ion	Ratio	Lower	Upper
97	100		
99	59.3	52.0	78.0
61	45.5	42.1	63.1

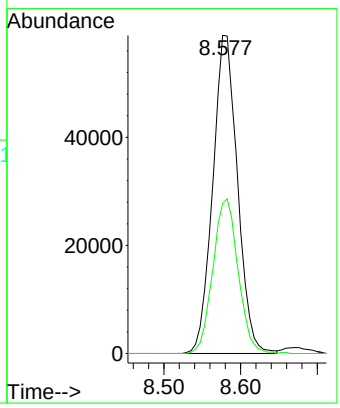




#33
1,2-Dichloroethane-d4
Concen: 56.259 ug/l
RT: 8.577 min Scan# 11
Delta R.T. -0.005 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 65 Resp: 131834

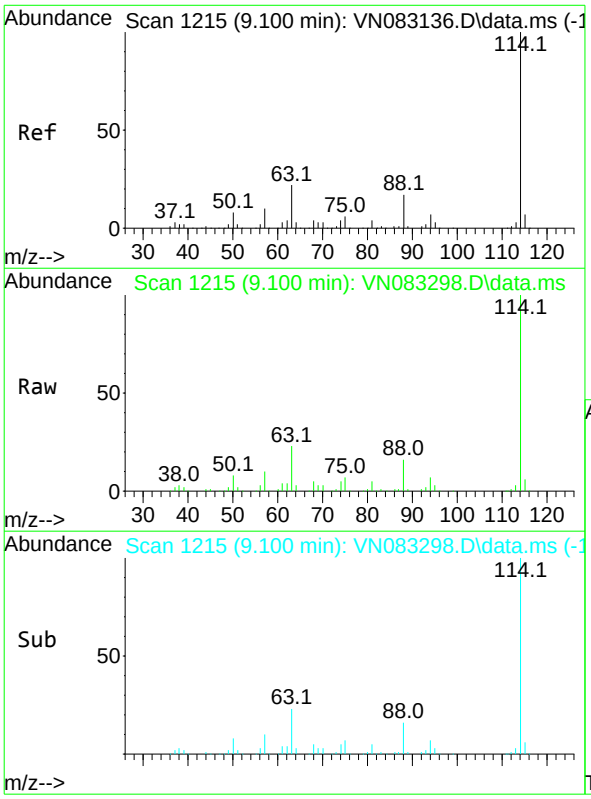
Ion	Ratio	Lower	Upper
65	100		
67	49.4	0.0	104.4



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations APPROVED

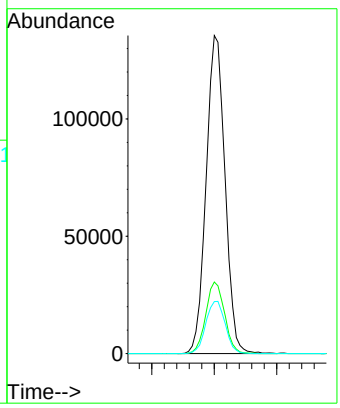
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

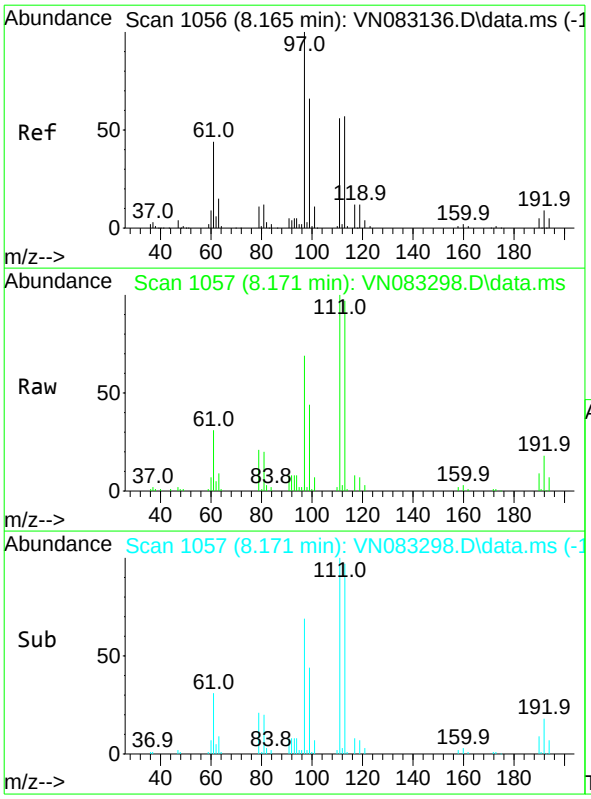


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion:114 Resp: 284346

Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	44.6
88	16.4	0.0	31.4

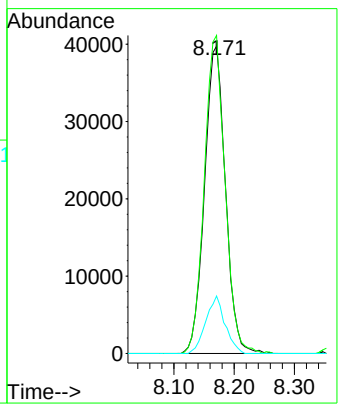




#35
Dibromofluoromethane
Concen: 54.029 ug/l
RT: 8.171 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion:113 Resp: 95892

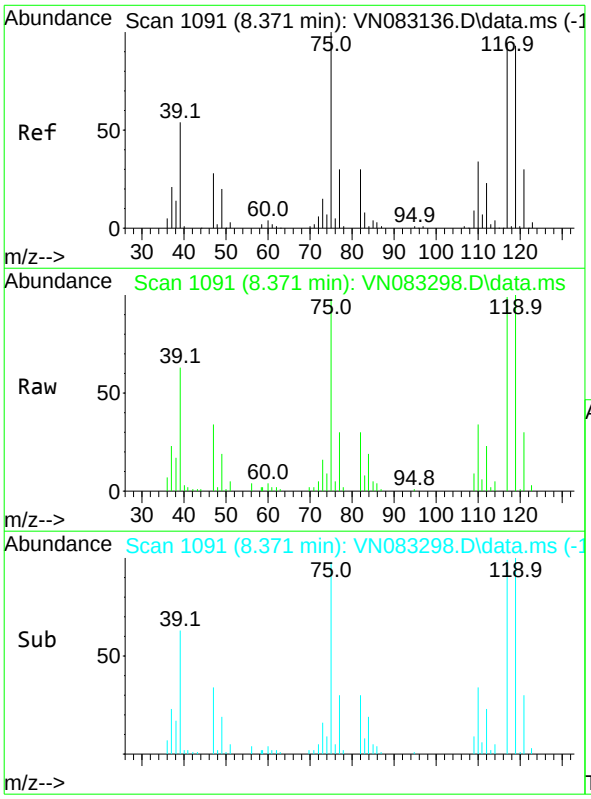
Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.4	123.6
192	17.2	14.9	22.3



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations APPROVED

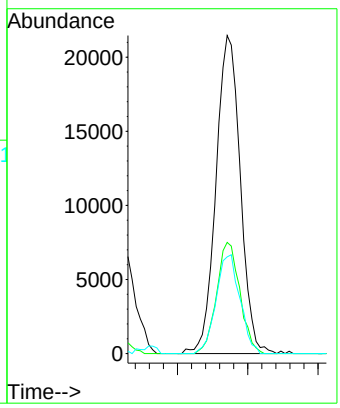
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

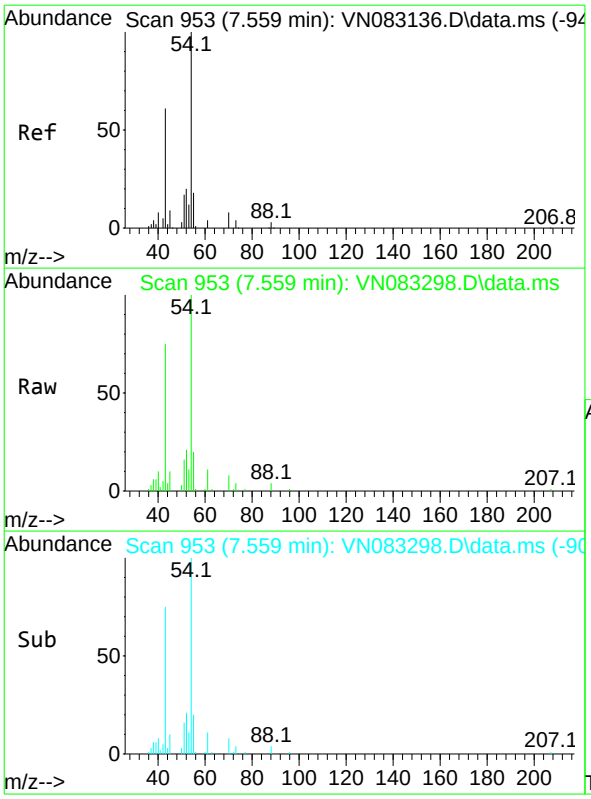


#36
1,1-Dichloropropene
Concen: 19.195 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 75 Resp: 51536

Ion	Ratio	Lower	Upper
75	100		
110	33.5	16.3	48.9
77	30.5	24.6	37.0

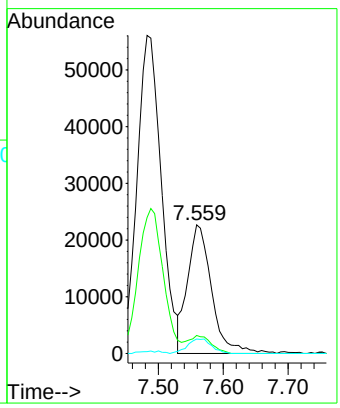




#37
Ethyl Acetate
Concen: 19.497 ug/l
RT: 7.559 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 43 Resp: 58610

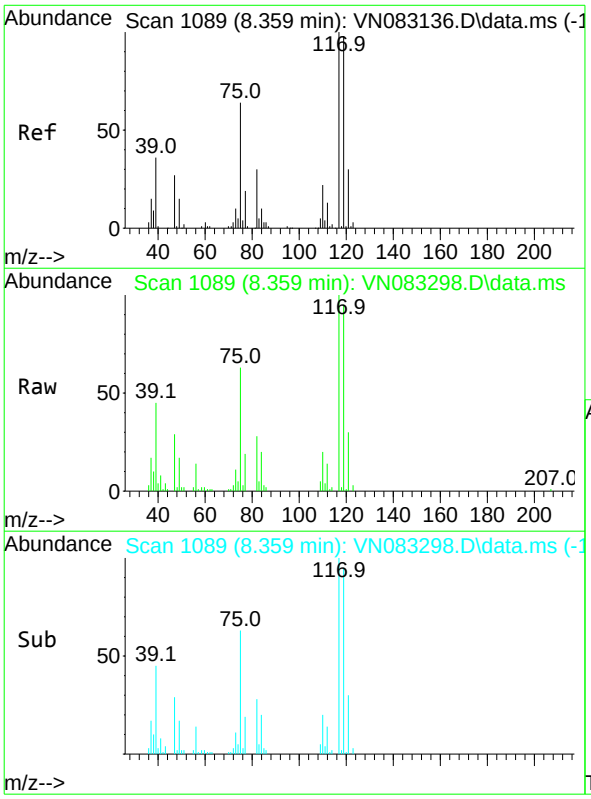
Ion	Ratio	Lower	Upper
43	100		
61	12.3	9.3	13.9
70	11.2	7.0	10.6#



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations
APPROVED

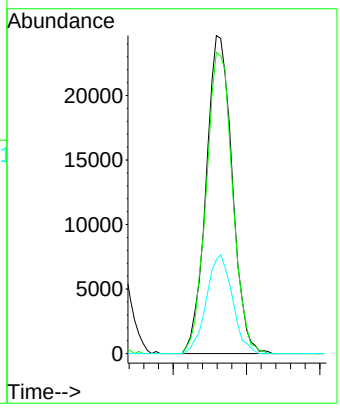
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

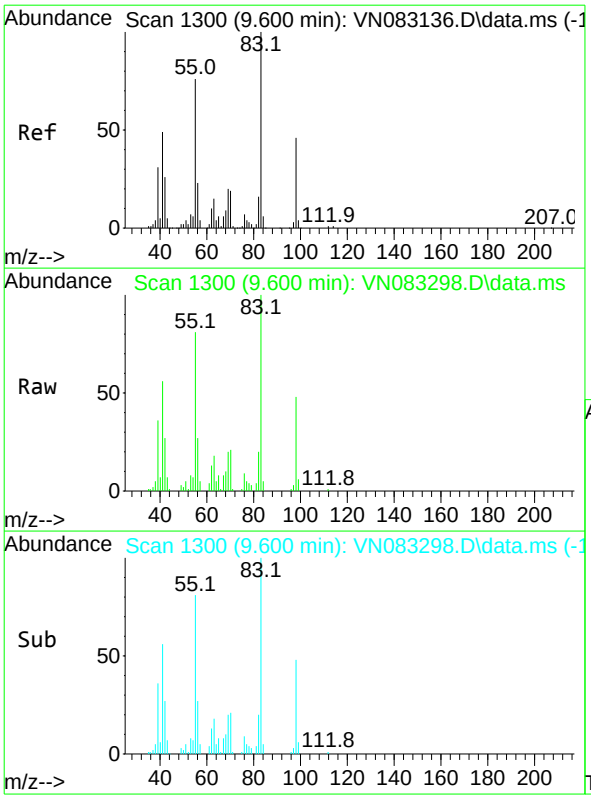


#38
Carbon Tetrachloride
Concen: 20.118 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion:117 Resp: 60835

Ion	Ratio	Lower	Upper
117	100		
119	94.7	74.9	112.3
121	29.5	24.3	36.5

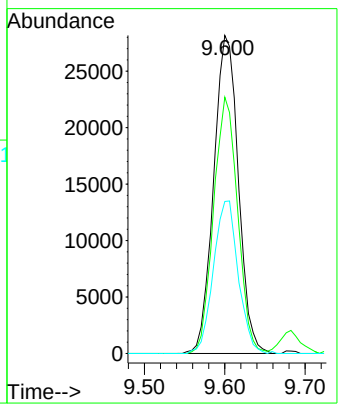




#39
Methylcyclohexane
Concen: 18.222 ug/l
RT: 9.600 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 83 Resp: 60089

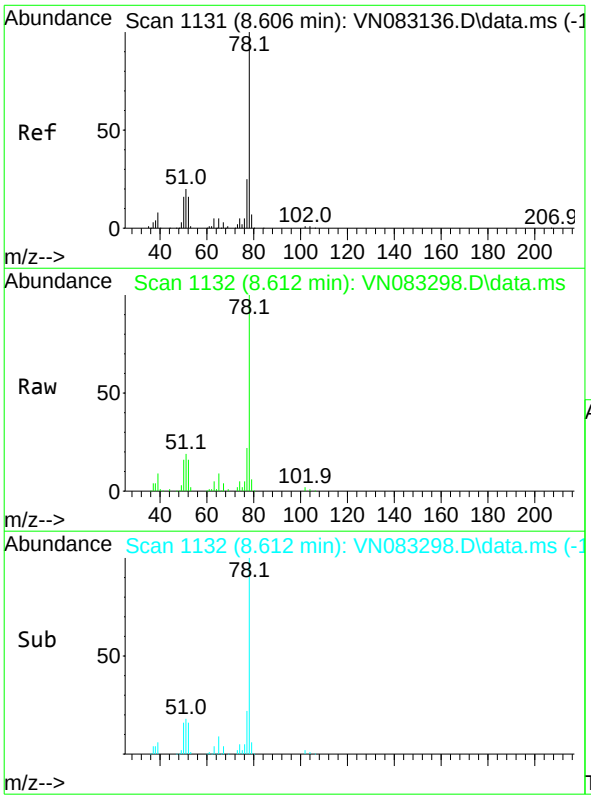
Ion	Ratio	Lower	Upper
83	100		
55	80.6	66.4	99.6
98	47.8	40.7	61.1



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations APPROVED

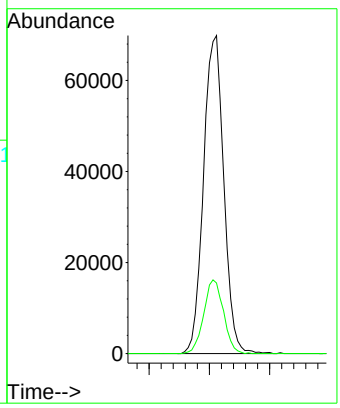
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

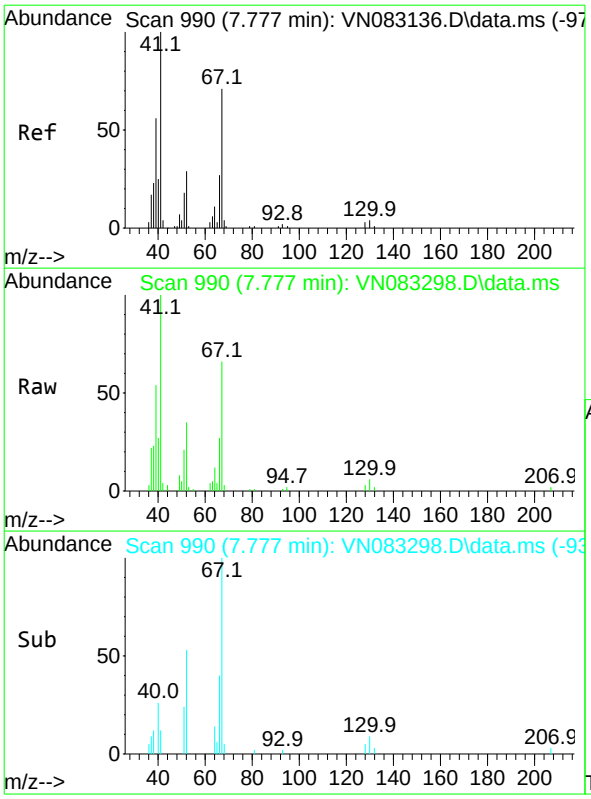


#40
Benzene
Concen: 20.411 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 78 Resp: 163247

Ion	Ratio	Lower	Upper
78	100		
77	22.2	19.0	28.4

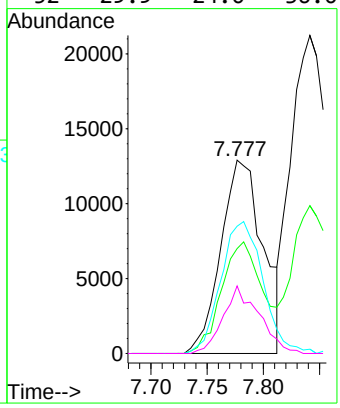




#41
Methacrylonitrile
Concen: 19.660 ug/l
RT: 7.777 min Scan# 99
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 41 Resp: 33603

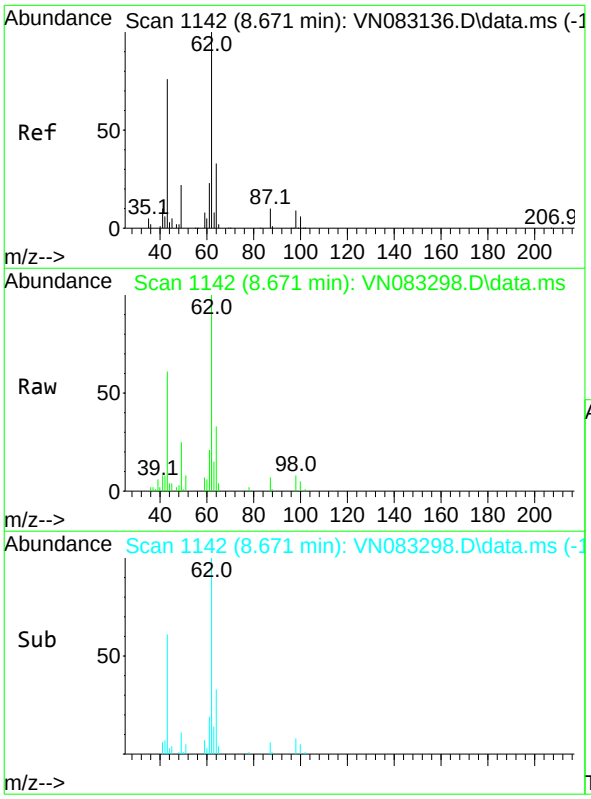
Ion	Ratio	Lower	Upper
41	100		
39	56.9	45.5	68.3
67	68.3	50.5	75.7
52	29.9	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations APPROVED

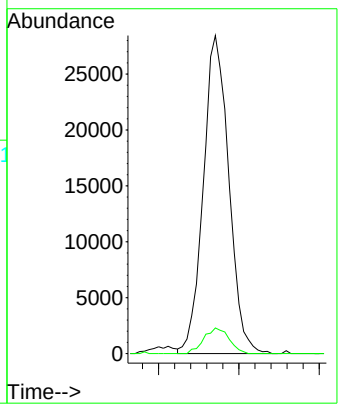
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

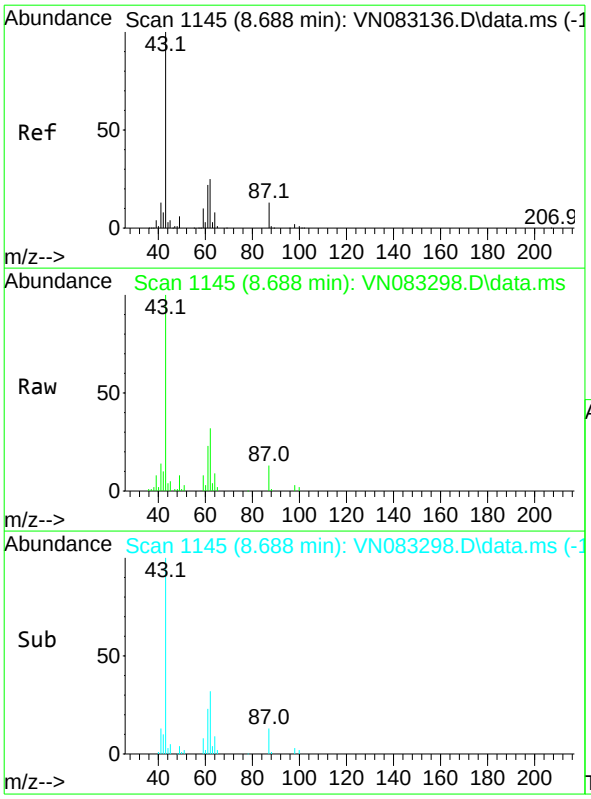


#42
1,2-Dichloroethane
Concen: 21.520 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 62 Resp: 62700

Ion	Ratio	Lower	Upper
62	100		
98	8.0	0.0	15.8

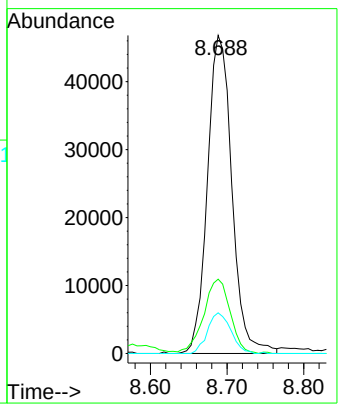




#43
Isopropyl Acetate
Concen: 18.485 ug/l
RT: 8.688 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 43 Resp: 103775

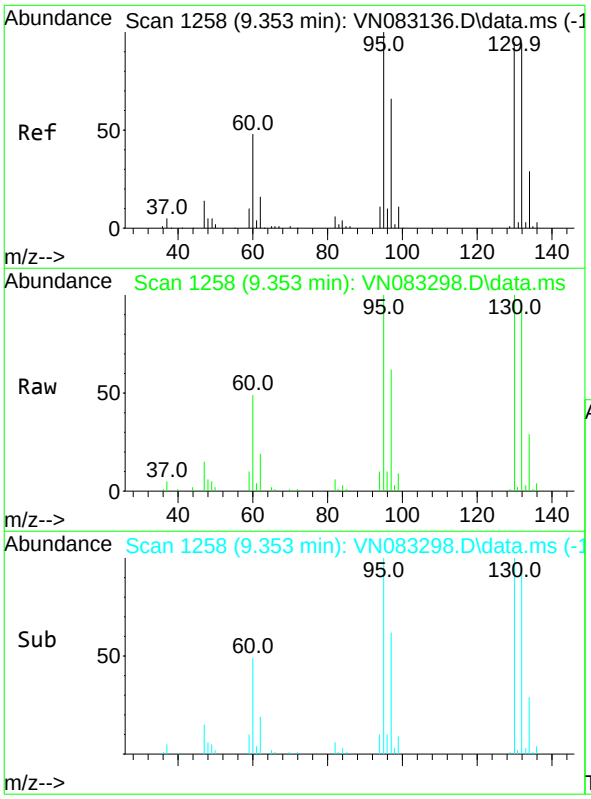
Ion	Ratio	Lower	Upper
43	100		
61	25.3	17.8	26.6
87	12.2	8.2	12.2



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations
APPROVED

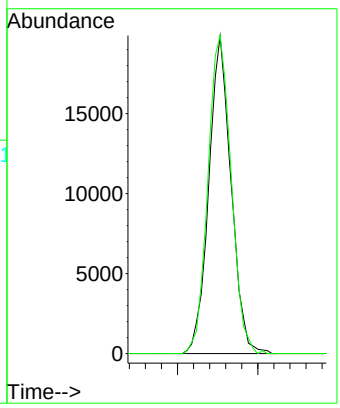
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

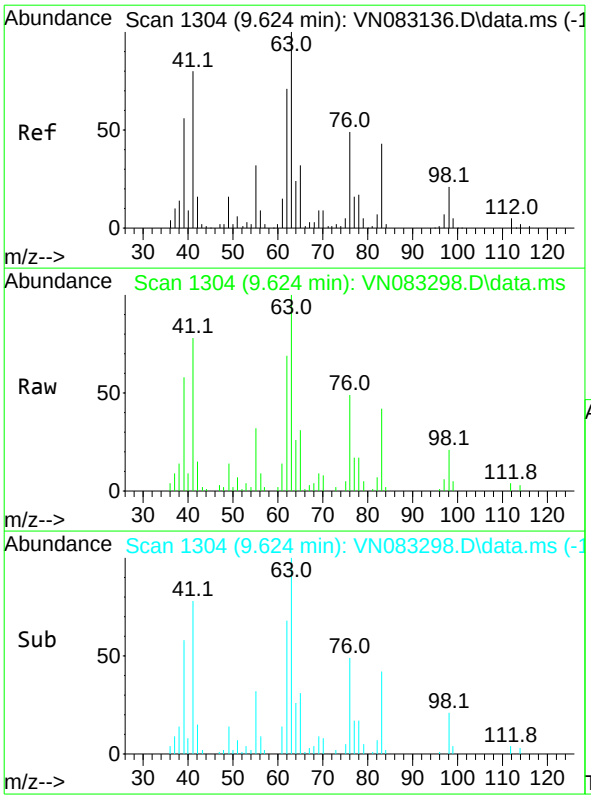


#44
Trichloroethene
Concen: 20.078 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion:130 Resp: 38223

Ion	Ratio	Lower	Upper
130	100		
95	100.2	0.0	197.8

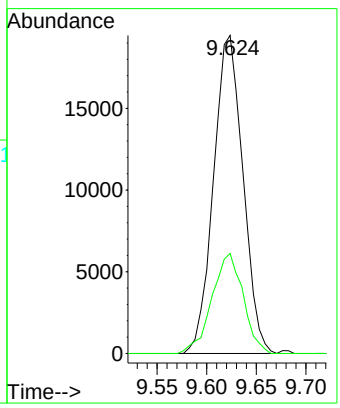




#45
1,2-Dichloropropane
Concen: 21.148 ug/l
RT: 9.624 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 63 Resp: 40150

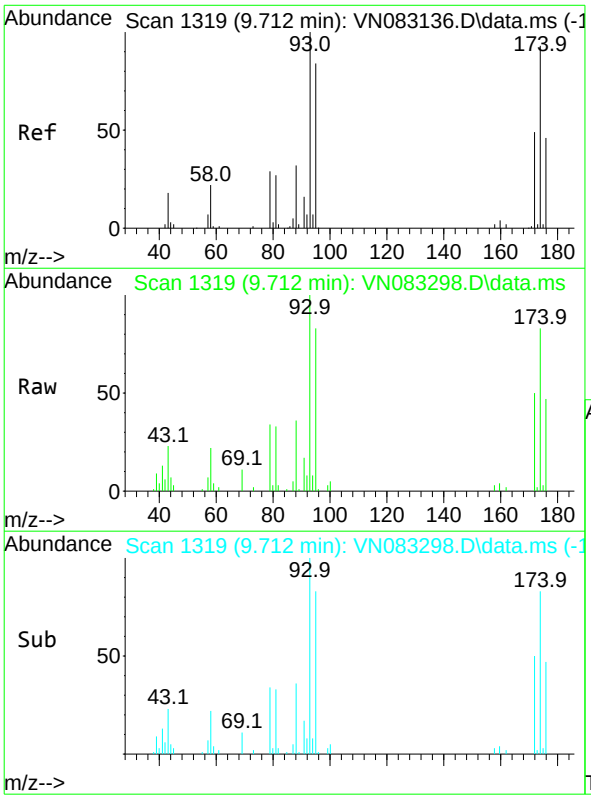
Ion	Ratio	Lower	Upper
63	100		
65	31.4	24.4	36.6



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations APPROVED

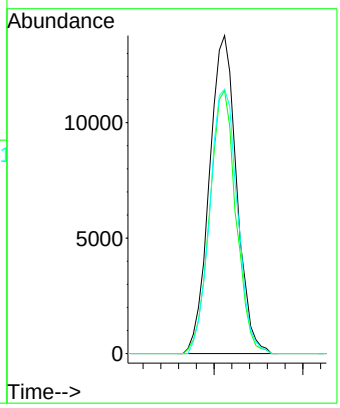
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

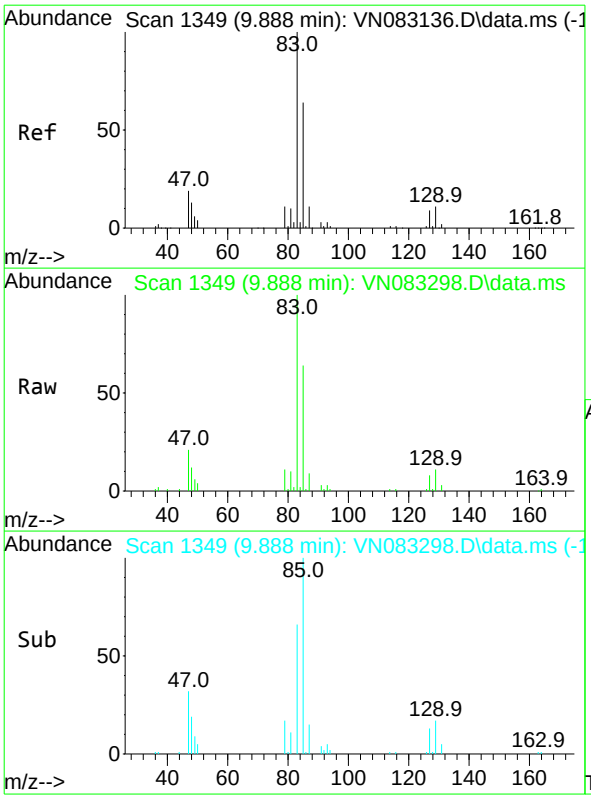


#46
Dibromomethane
Concen: 21.581 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 93 Resp: 29327

Ion	Ratio	Lower	Upper
93	100		
95	79.9	65.8	98.6
174	84.0	71.7	107.5

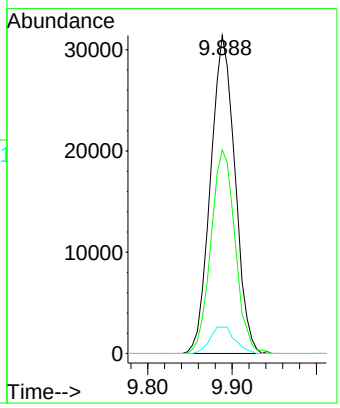




#47
Bromodichloromethane
Concen: 20.673 ug/l
RT: 9.888 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 83 Resp: 63079

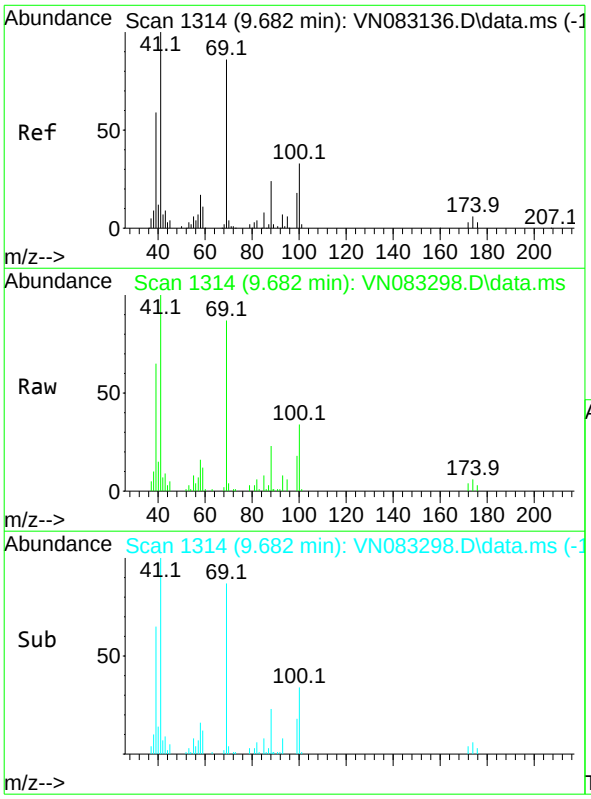
Ion	Ratio	Lower	Upper
83	100		
85	64.0	51.1	76.7
127	8.3	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations
APPROVED

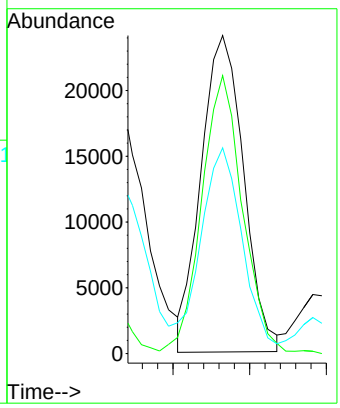
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

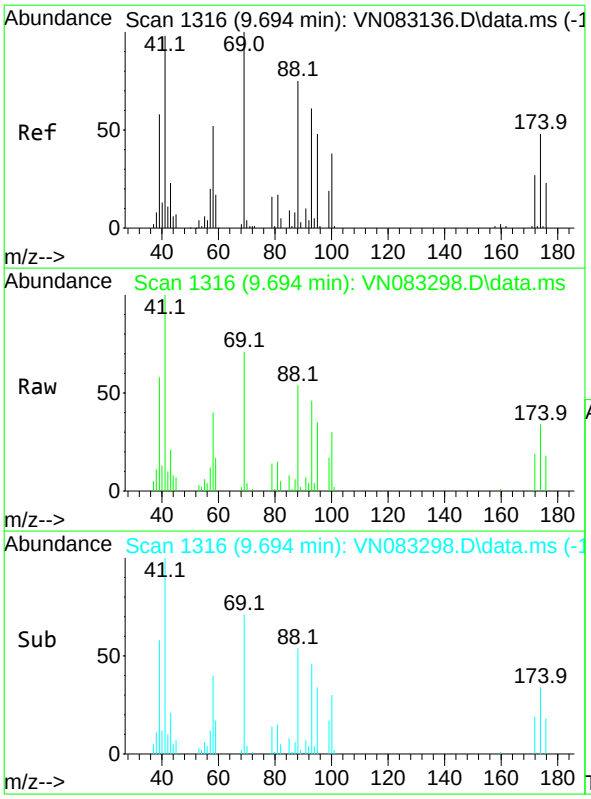


#48
Methyl methacrylate
Concen: 18.669 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 41 Resp: 46397

Ion	Ratio	Lower	Upper
41	100		
69	84.6	56.3	84.5#
39	64.7	50.3	75.5

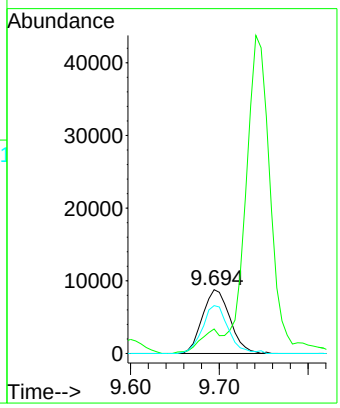




#49
1,4-Dioxane
Concen: 421.571 ug/l
RT: 9.694 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 88 Resp: 18902

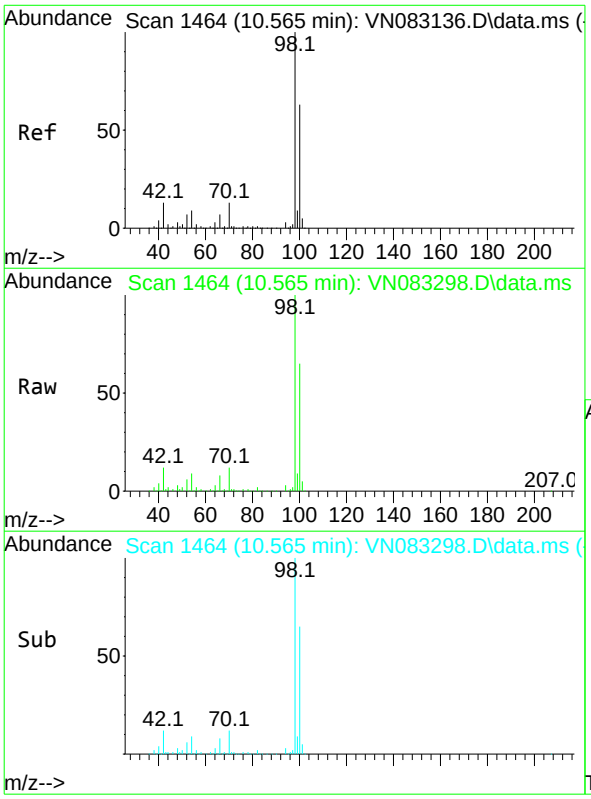
Ion	Ratio	Lower	Upper
88	100		
43	26.9	27.8	41.8#
58	71.3	59.4	89.0



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations APPROVED

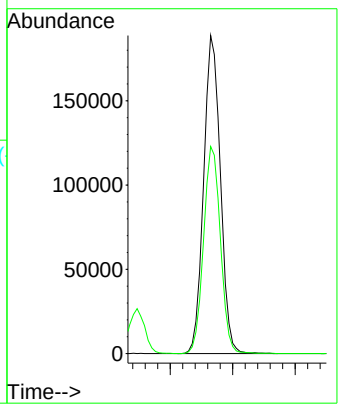
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

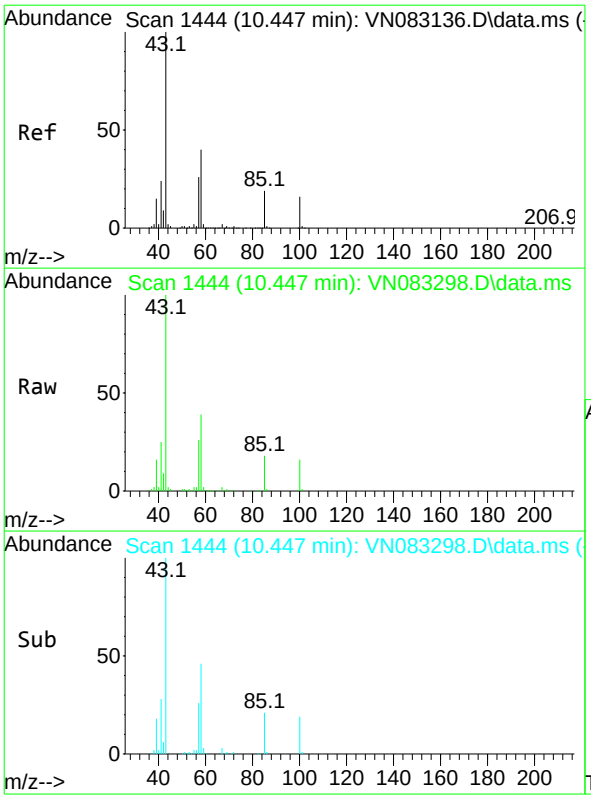


#50
Toluene-d8
Concen: 53.075 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 98 Resp: 351385

Ion	Ratio	Lower	Upper
98	100		
100	65.5	51.5	77.3

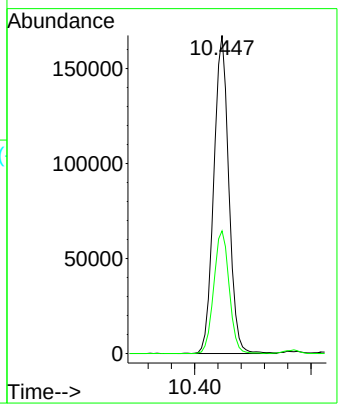




#51
4-Methyl-2-Pentanone
Concen: 105.490 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 43 Resp: 299875

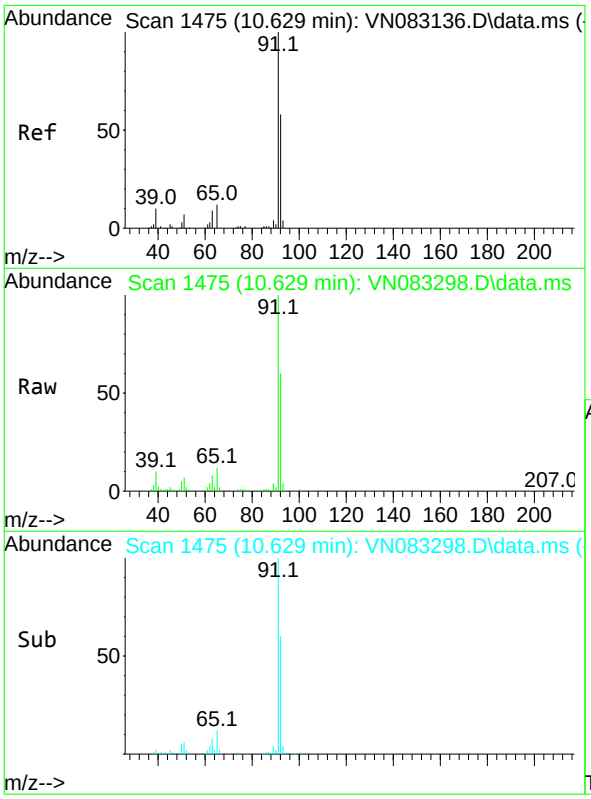
Ion	Ratio	Lower	Upper
43	100		
58	39.5	28.2	42.4



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations APPROVED

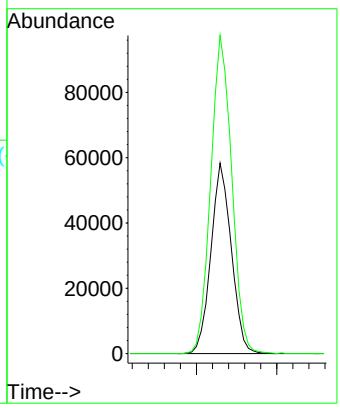
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

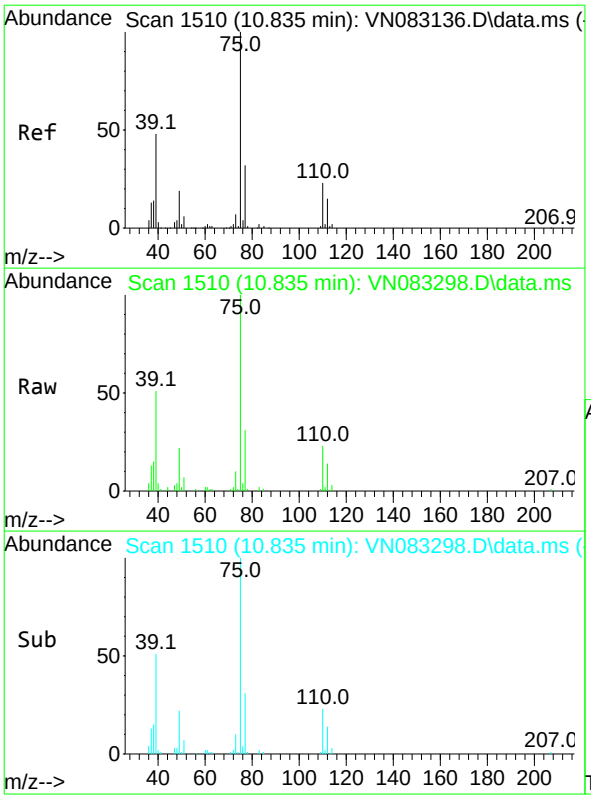


#52
Toluene
Concen: 20.347 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 92 Resp: 102822

Ion	Ratio	Lower	Upper
92	100		
91	172.4	139.4	209.0

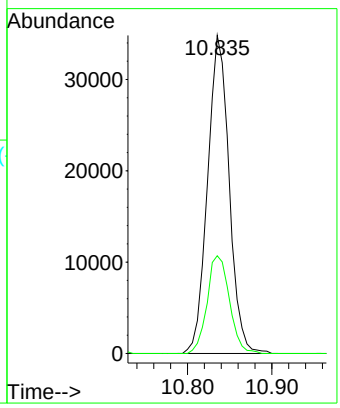




#53
t-1,3-Dichloropropene
Concen: 19.747 ug/l
RT: 10.835 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 75 Resp: 61891

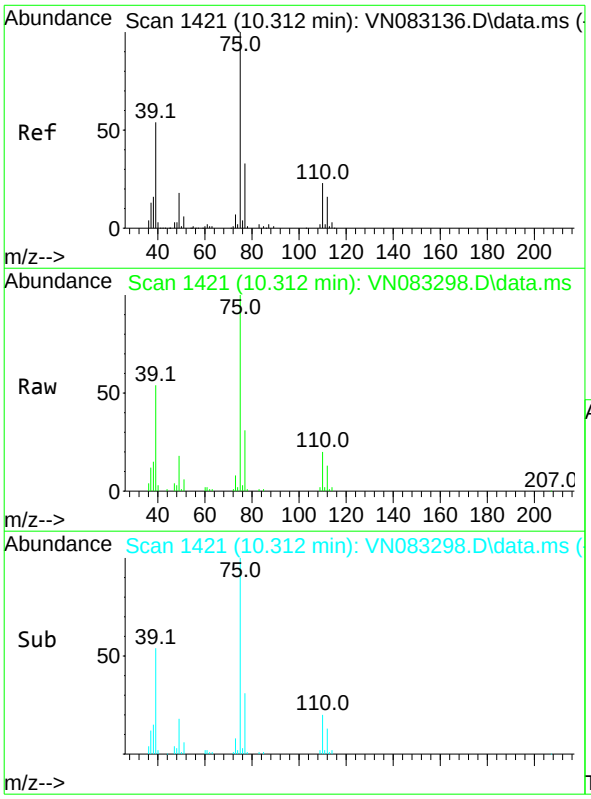
Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations
APPROVED

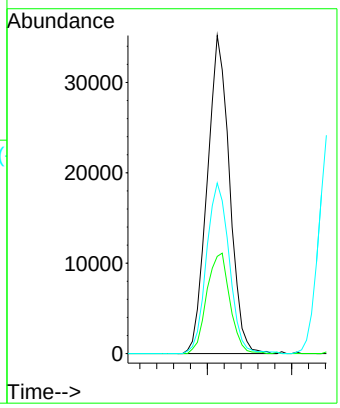
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

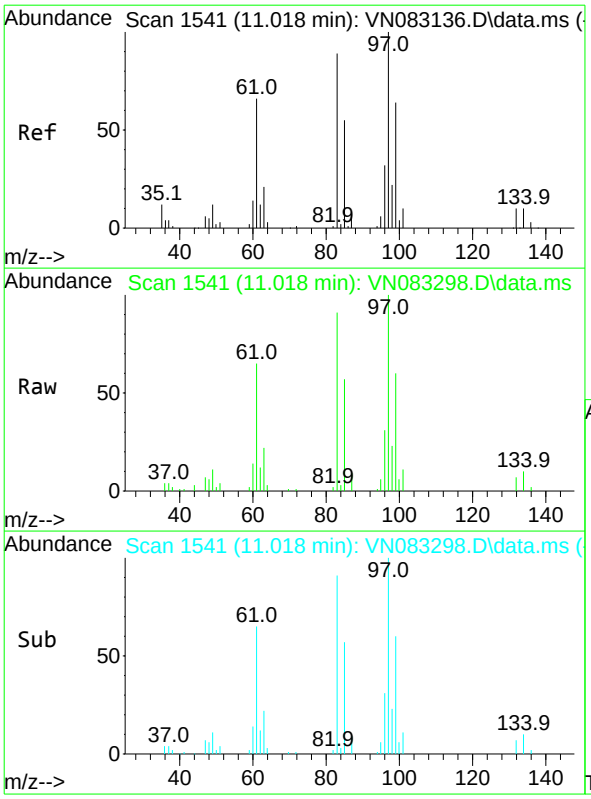


#54
cis-1,3-Dichloropropene
Concen: 19.411 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 75 Resp: 64711

Ion	Ratio	Lower	Upper
75	100		
77	30.6	24.3	36.5
39	53.6	50.5	75.7

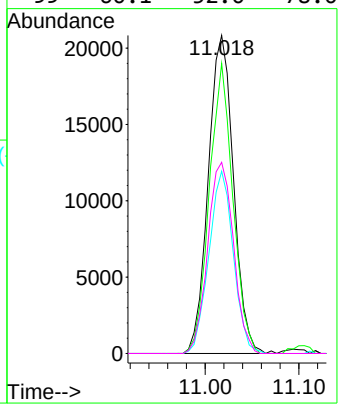




#55
1,1,2-Trichloroethane
Concen: 21.469 ug/l
RT: 11.018 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 97 Resp: 38882

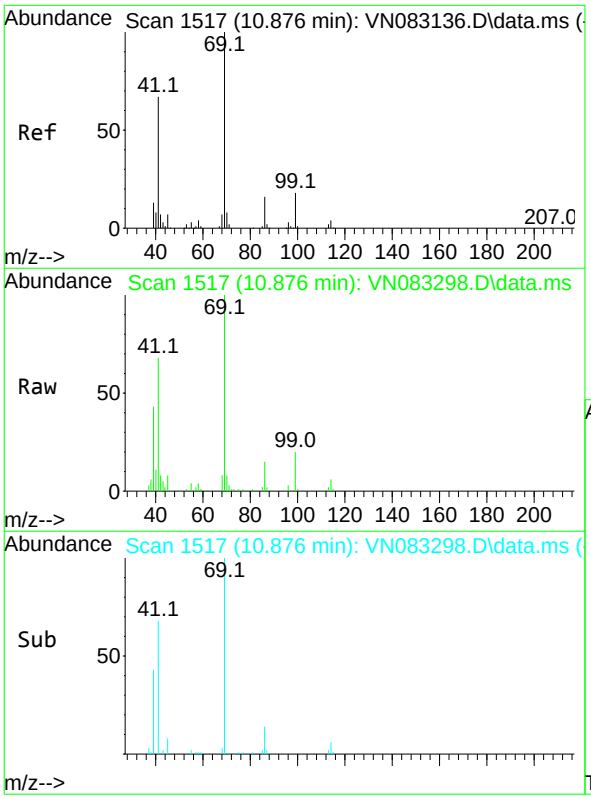
Ion	Ratio	Lower	Upper
97	100		
83	91.2	71.4	107.0
85	57.3	45.8	68.6
99	60.1	52.0	78.0



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations APPROVED

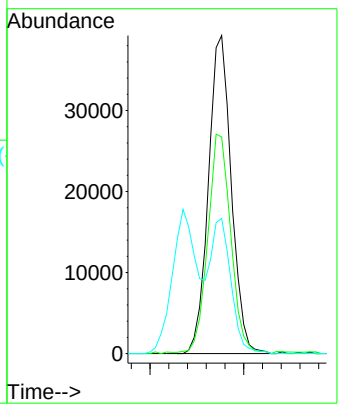
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

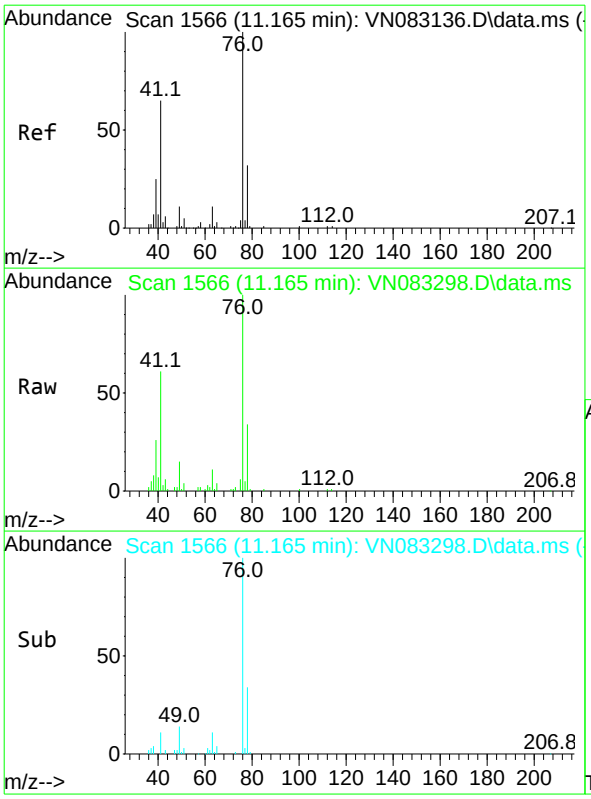


#56
Ethyl methacrylate
Concen: 19.488 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 69 Resp: 66534

Ion	Ratio	Lower	Upper
69	100		
41	69.7	63.4	95.2
39	37.3	37.4	56.0#

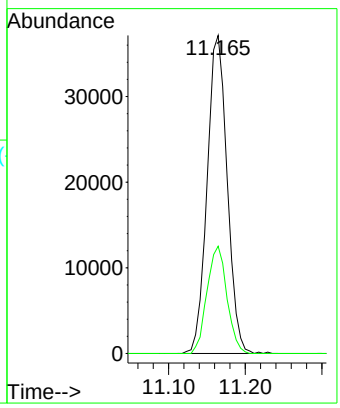




#57
1,3-Dichloropropane
Concen: 20.850 ug/l
RT: 11.165 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 76 Resp: 67303

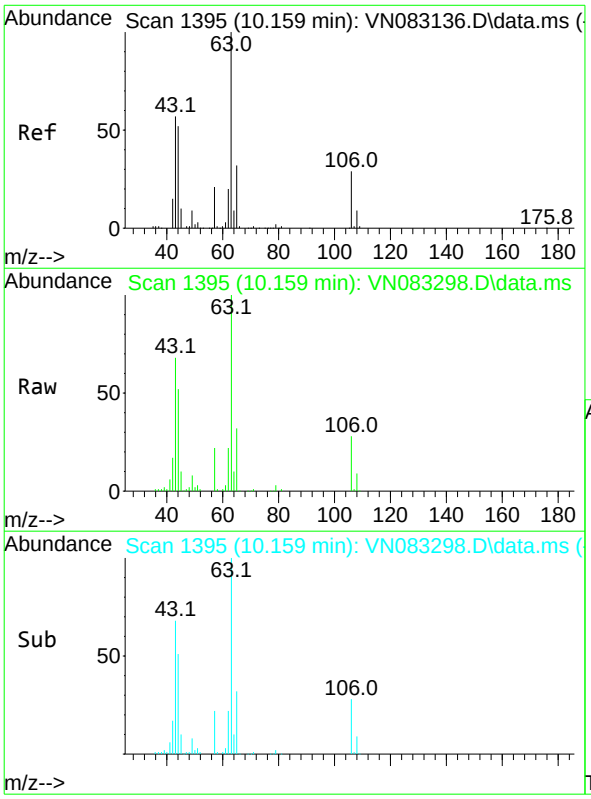
Ion	Ratio	Lower	Upper
76	100		
78	33.6	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations APPROVED

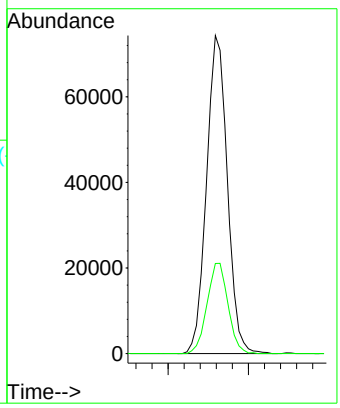
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

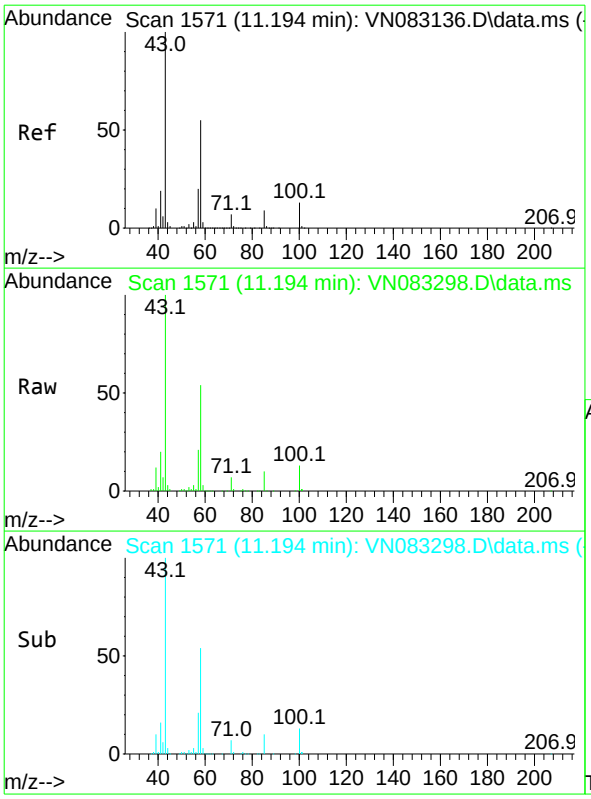


#58
2-Chloroethyl Vinyl ether
Concen: 92.654 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 63 Resp: 133714

Ion	Ratio	Lower	Upper
63	100		
106	28.6	21.4	32.0

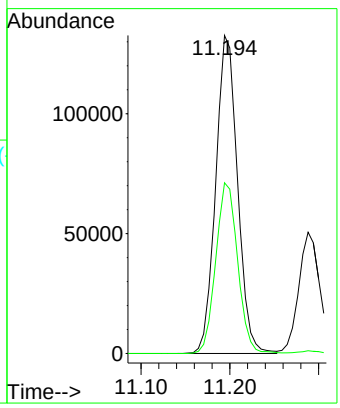




#59
2-Hexanone
Concen: 103.052 ug/l
RT: 11.194 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 43 Resp: 226634

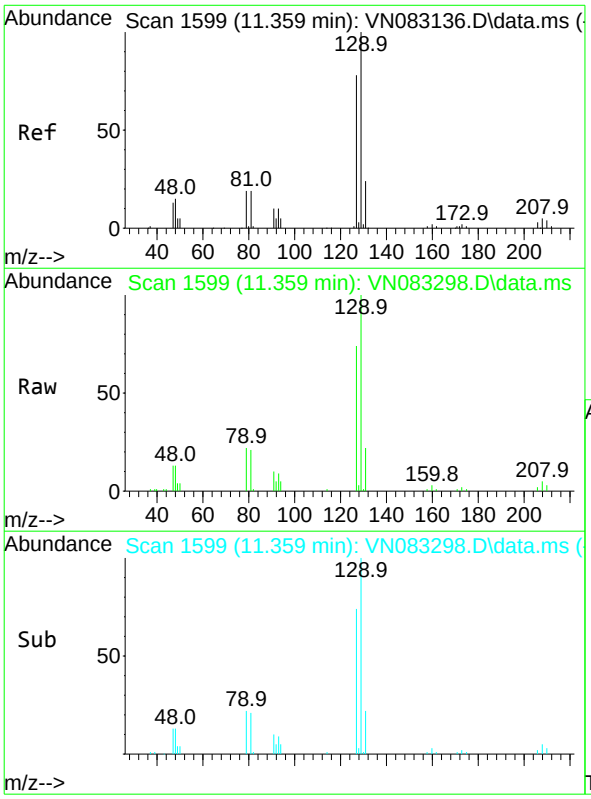
Ion	Ratio	Lower	Upper
43	100		
58	53.8	24.6	73.8



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations
APPROVED

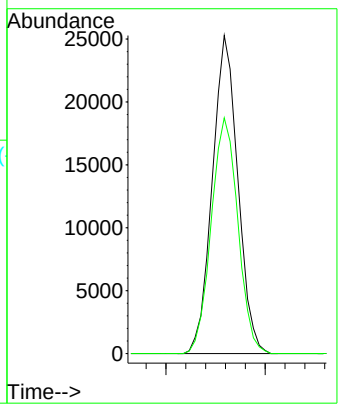
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

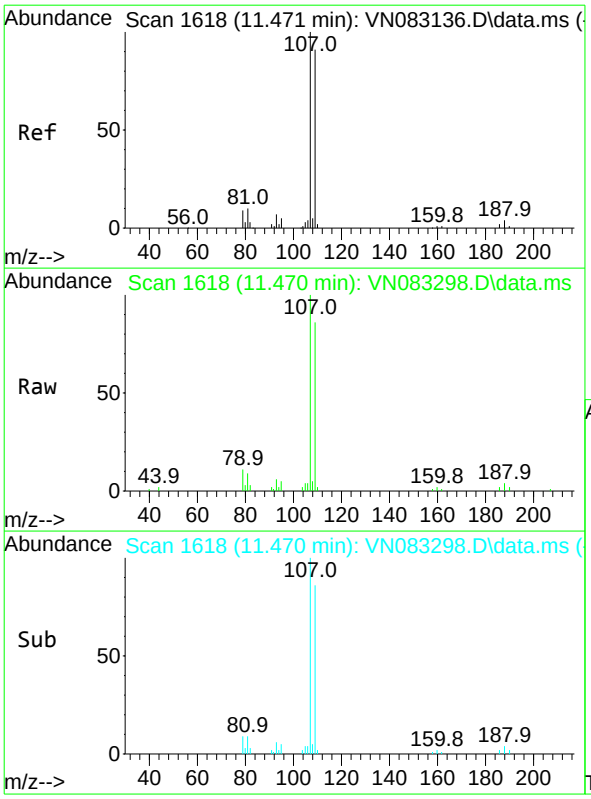


#60
Dibromochloromethane
Concen: 20.642 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion:129 Resp: 45197

Ion	Ratio	Lower	Upper
129	100		
127	77.3	39.2	117.6





#61
1,2-Dibromoethane
Concen: 20.609 ug/l
RT: 11.470 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

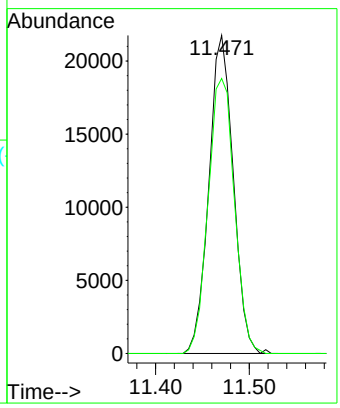
Tgt Ion:107 Resp: 39209

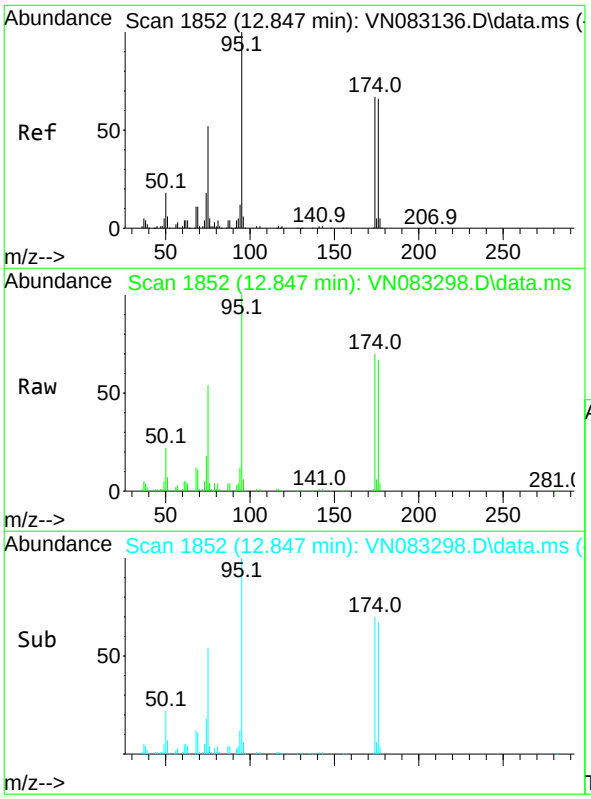
Ion	Ratio	Lower	Upper
107	100		
109	93.4	73.7	110.5

Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

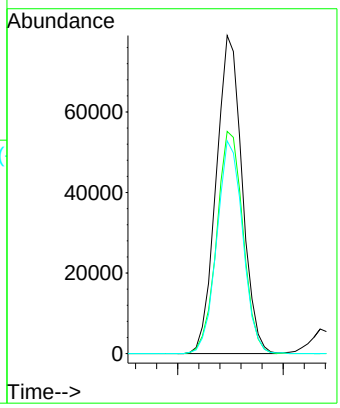


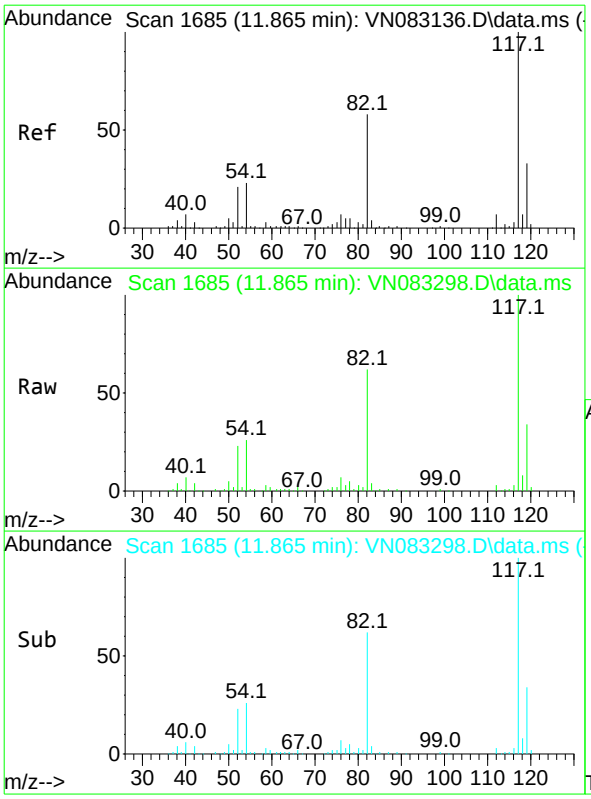


#62
4-Bromofluorobenzene
Concen: 52.296 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 95 Resp: 134979

Ion	Ratio	Lower	Upper
95	100		
174	70.7	0.0	159.2
176	66.8	0.0	147.6

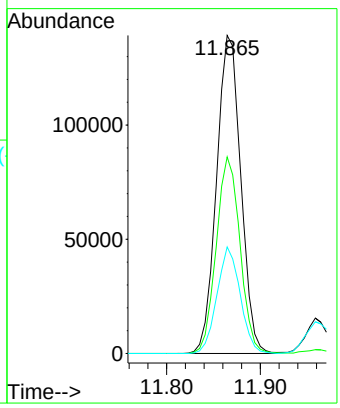




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion:117 Resp: 250581

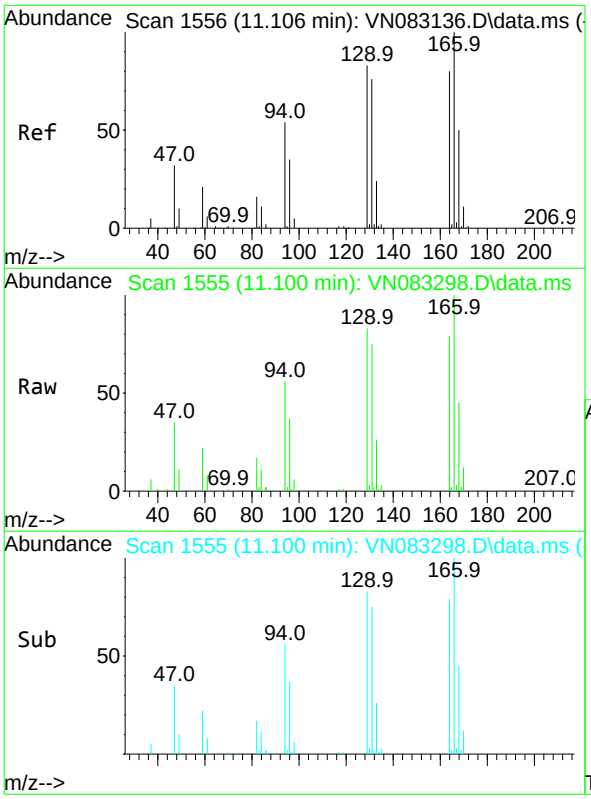
Ion	Ratio	Lower	Upper
117	100		
82	61.8	47.5	71.3
119	33.5	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations APPROVED

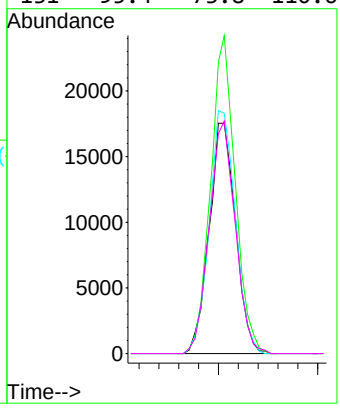
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

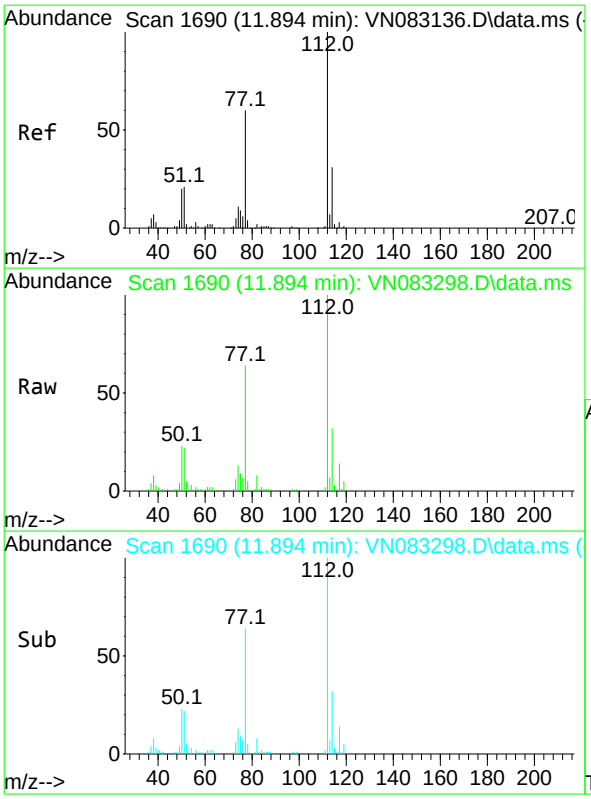


#64
Tetrachloroethene
Concen: 19.622 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.006 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion:164 Resp: 32564

Ion	Ratio	Lower	Upper
164	100		
166	126.4	101.4	152.0
129	105.4	75.7	113.5
131	95.4	73.8	110.6





#65
Chlorobenzene
Concen: 19.770 ug/l
RT: 11.894 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

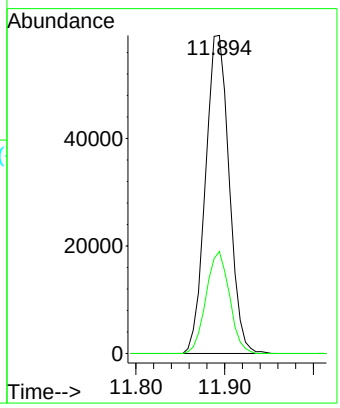
Tgt Ion:112 Resp: 109477

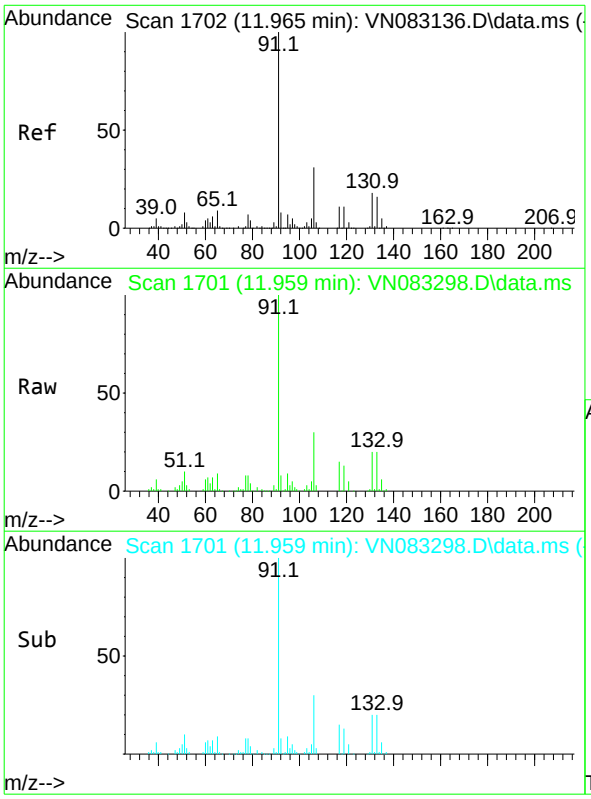
Ion	Ratio	Lower	Upper
112	100		
114	32.1	26.2	39.2

Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

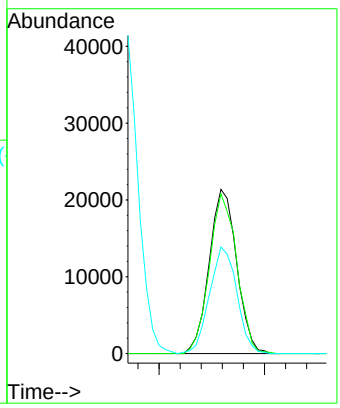


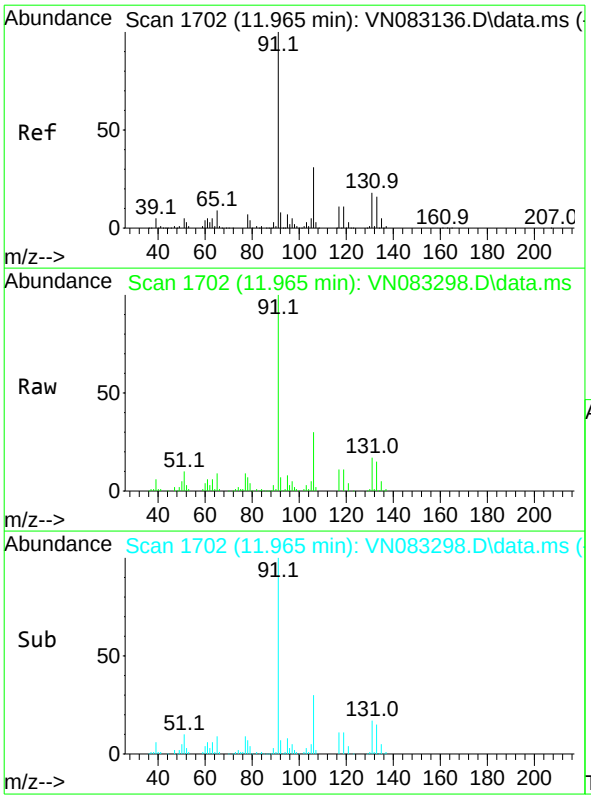


#66
1,1,1,2-Tetrachloroethane
Concen: 19.876 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion:131 Resp: 38818

Ion	Ratio	Lower	Upper
131	100		
133	96.8	47.3	142.0
119	64.3	32.5	97.4

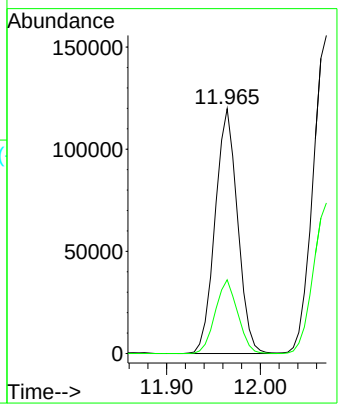




#67
Ethyl Benzene
Concen: 19.621 ug/l
RT: 11.965 min Scan# 17
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 91 Resp: 199315

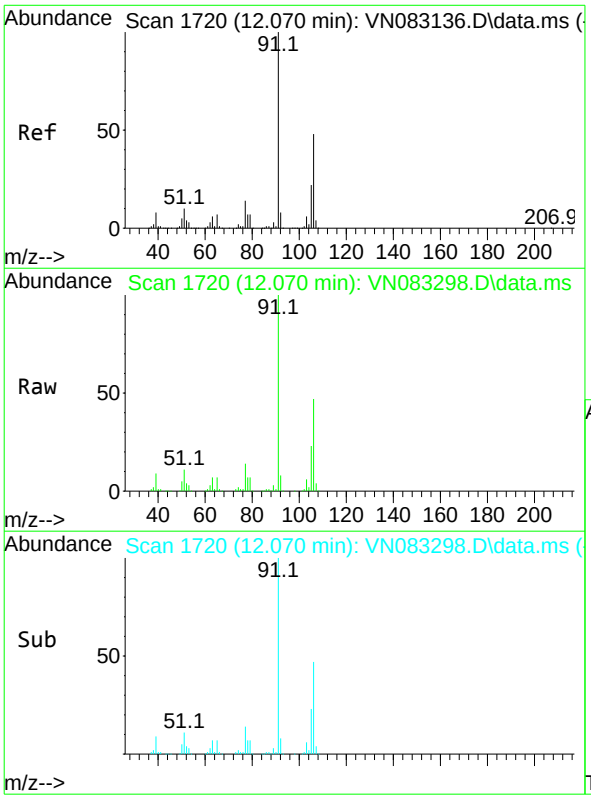
Ion	Ratio	Lower	Upper
91	100		
106	30.1	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations
APPROVED

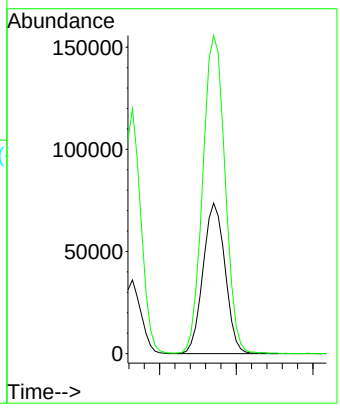
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

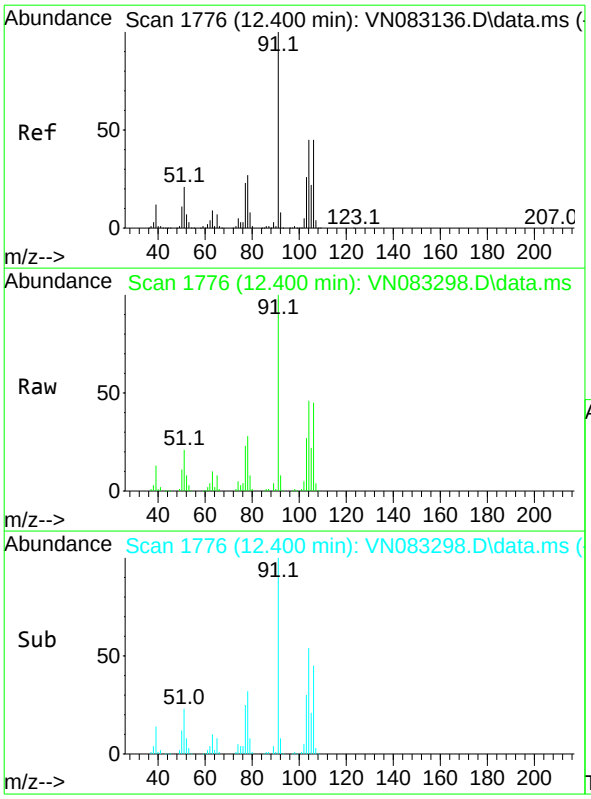


#68
m/p-Xylenes
Concen: 38.610 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion:106 Resp: 146923

Ion	Ratio	Lower	Upper
106	100		
91	214.5	166.1	249.1

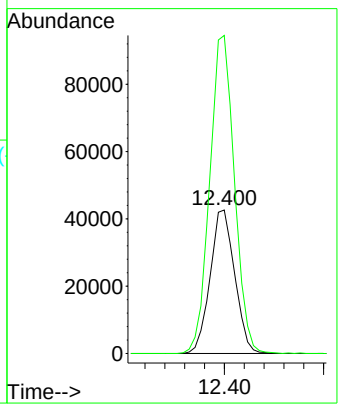




#69
o-Xylene
Concen: 19.511 ug/l
RT: 12.400 min Scan# 17
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion:106 Resp: 73227

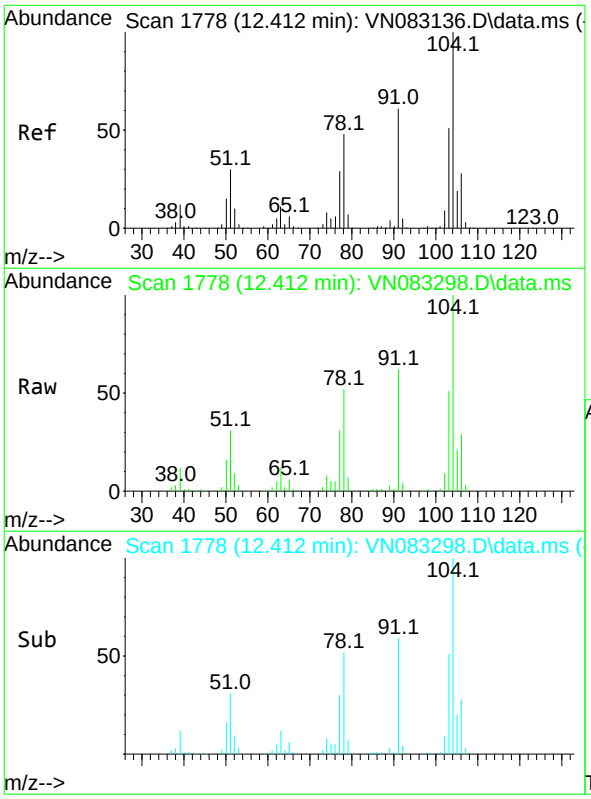
Ion	Ratio	Lower	Upper
106	100		
91	223.1	111.3	333.9



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations APPROVED

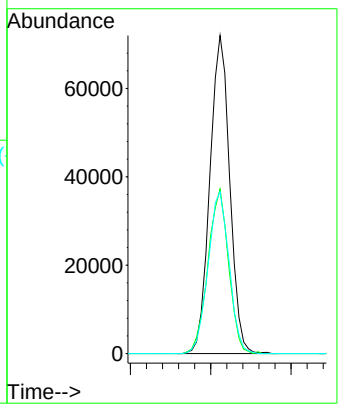
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

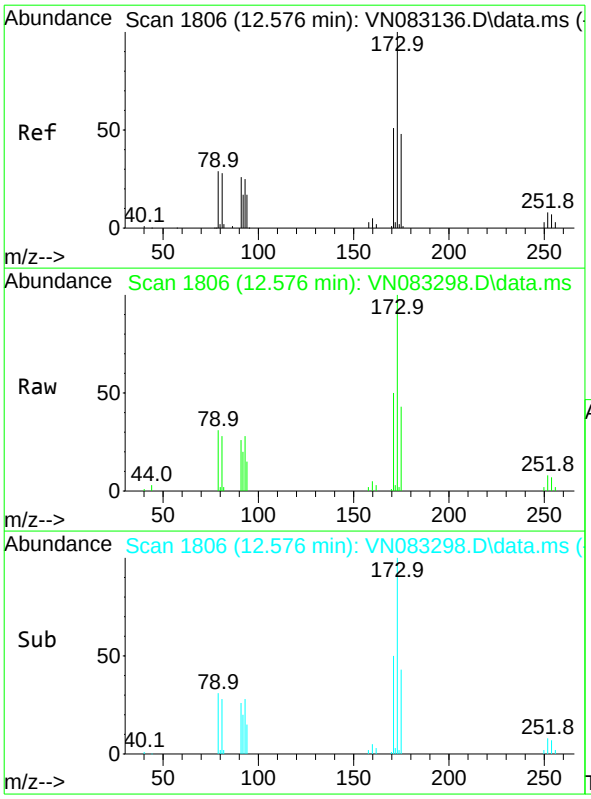


#70
Styrene
Concen: 19.632 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion:104 Resp: 123747

Ion	Ratio	Lower	Upper
104	100		
78	53.6	41.6	62.4
103	53.7	44.0	66.0





#71
Bromoform
Concen: 19.376 ug/l
RT: 12.576 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

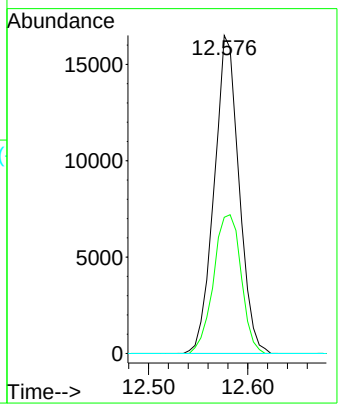
Tgt Ion:173 Resp: 28667

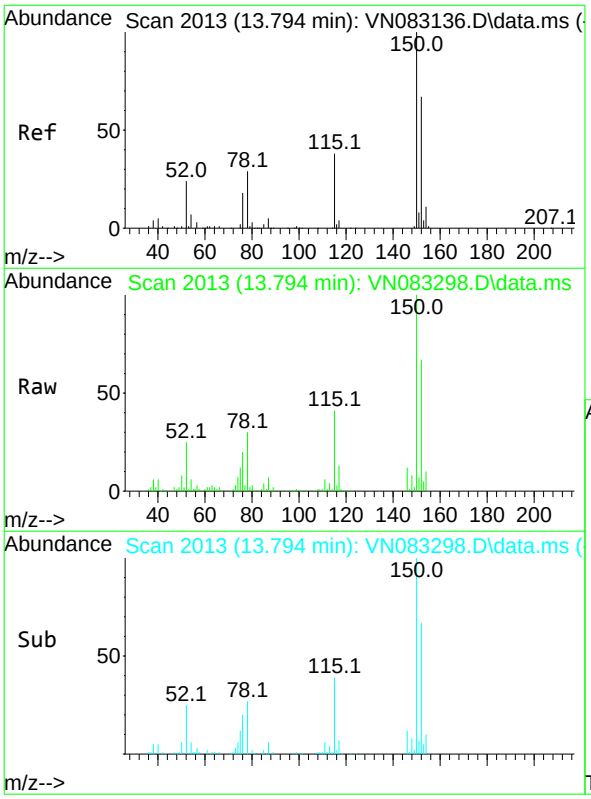
Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.0	72.0
254	0.0	0.0	0.0

Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

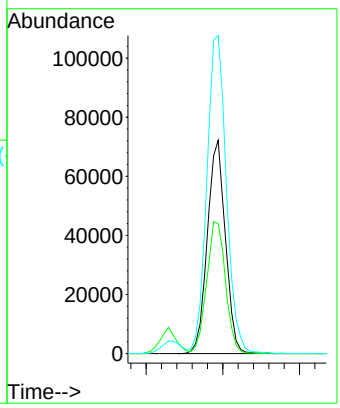


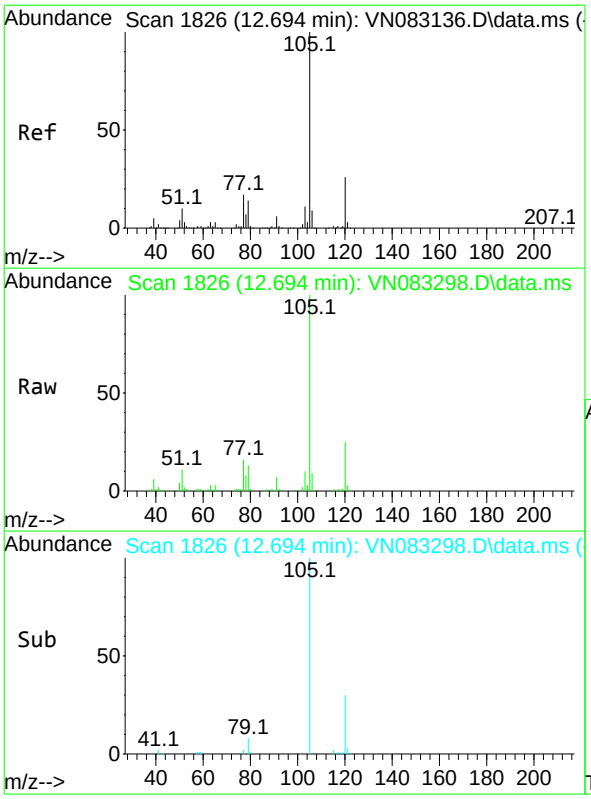


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion:152 Resp: 117869

Ion	Ratio	Lower	Upper
152	100		
115	64.4	30.6	91.6
150	161.8	0.0	348.6

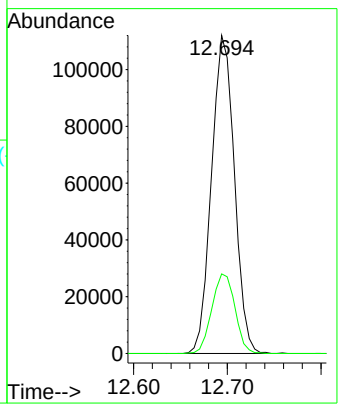




#73
Isopropylbenzene
Concen: 19.262 ug/l
RT: 12.694 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion:105 Resp: 189904

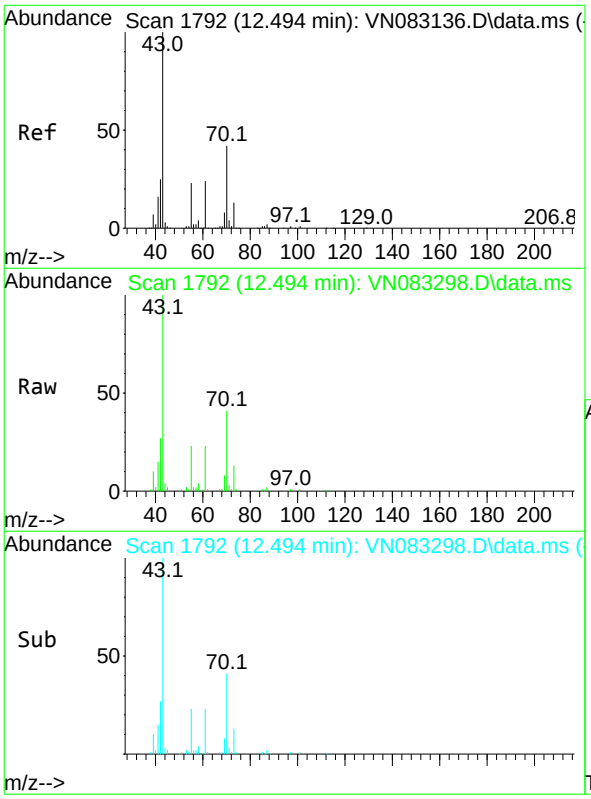
Ion	Ratio	Lower	Upper
105	100		
120	25.2	12.9	38.6



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations APPROVED

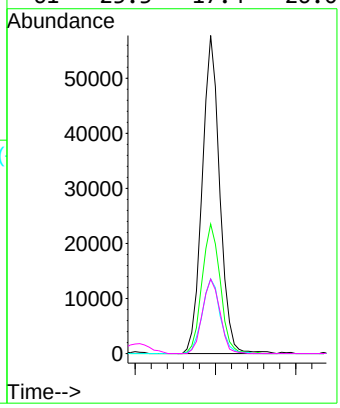
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

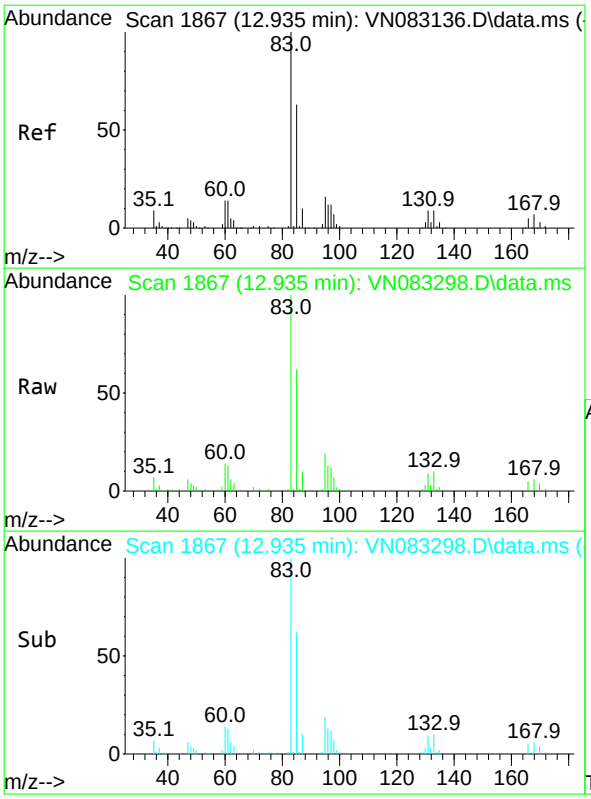


#74
N-amyl acetate
Concen: 18.185 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 43 Resp: 87695

Ion	Ratio	Lower	Upper
43	100		
70	42.1	29.8	44.6
55	24.0	18.7	28.1
61	23.3	17.4	26.0

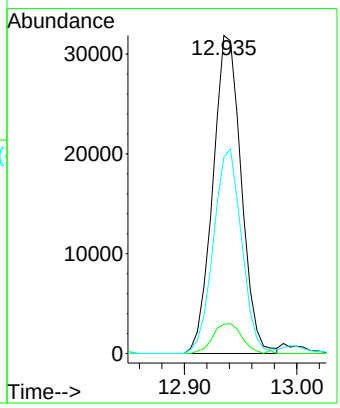




#75
1,1,2,2-Tetrachloroethane
Concen: 20.040 ug/l
RT: 12.935 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 83 Resp: 55881

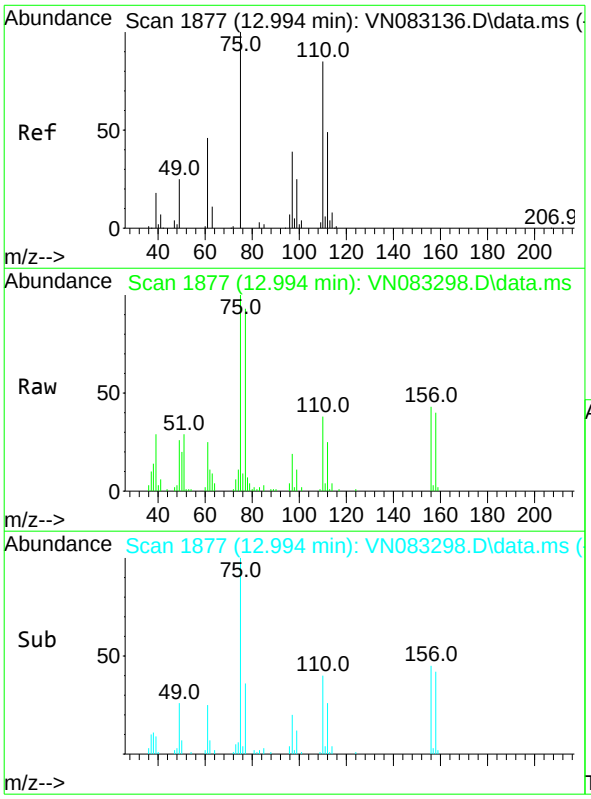
Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.0	14.9
85	63.8	31.9	95.7



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations APPROVED

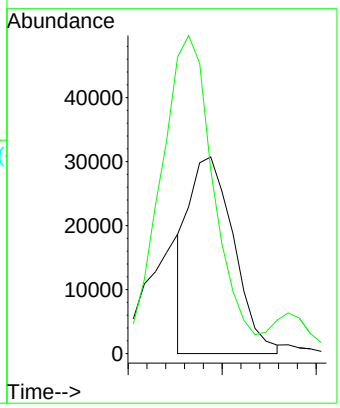
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

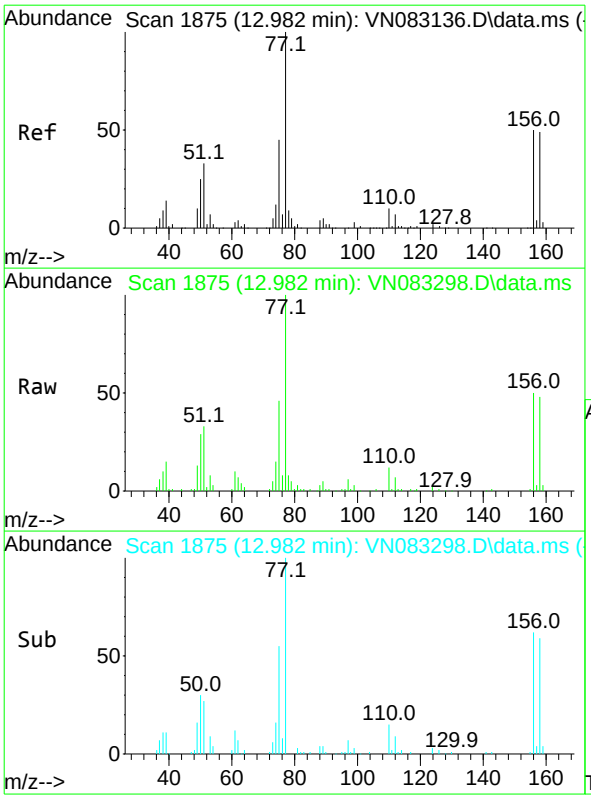


#76
1,2,3-Trichloropropane
Concen: 19.732 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 75 Resp: 51046

Ion	Ratio	Lower	Upper
75	100		
77	193.3	110.9	332.6

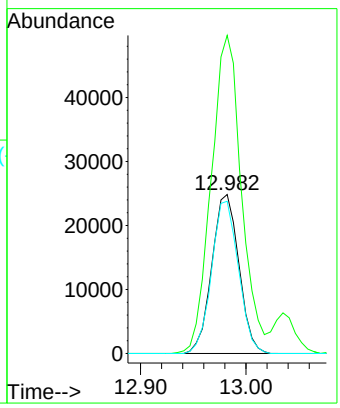




#77
Bromobenzene
Concen: 20.216 ug/l
RT: 12.982 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion:156 Resp: 44274

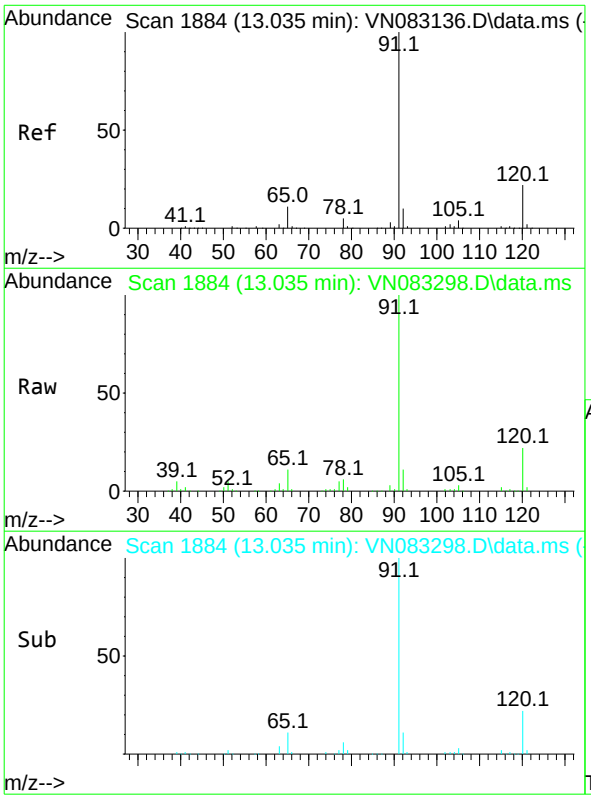
Ion	Ratio	Lower	Upper
156	100		
77	222.9	111.3	333.8
158	95.4	48.3	144.9



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations APPROVED

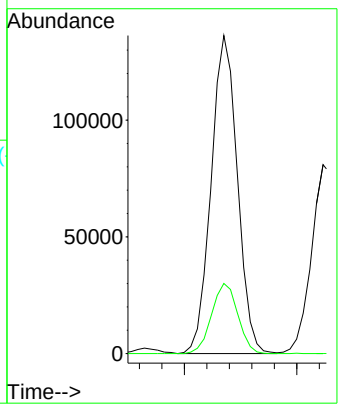
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

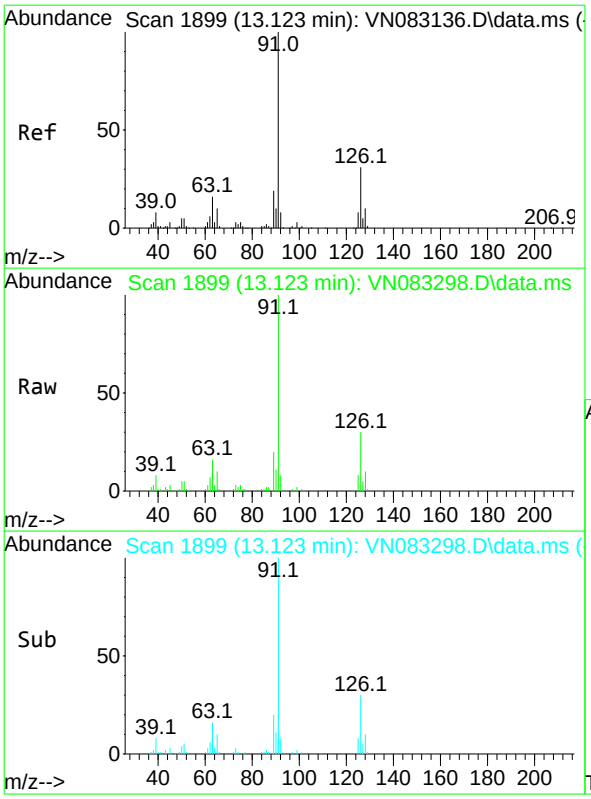


#78
n-propylbenzene
Concen: 19.470 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 91 Resp: 221023

Ion	Ratio	Lower	Upper
91	100		
120	21.9	10.9	32.9

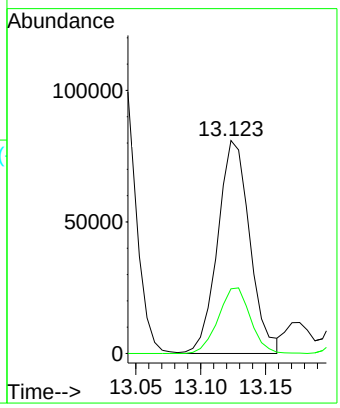




#79
2-Chlorotoluene
Concen: 19.416 ug/l
RT: 13.123 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 91 Resp: 139743

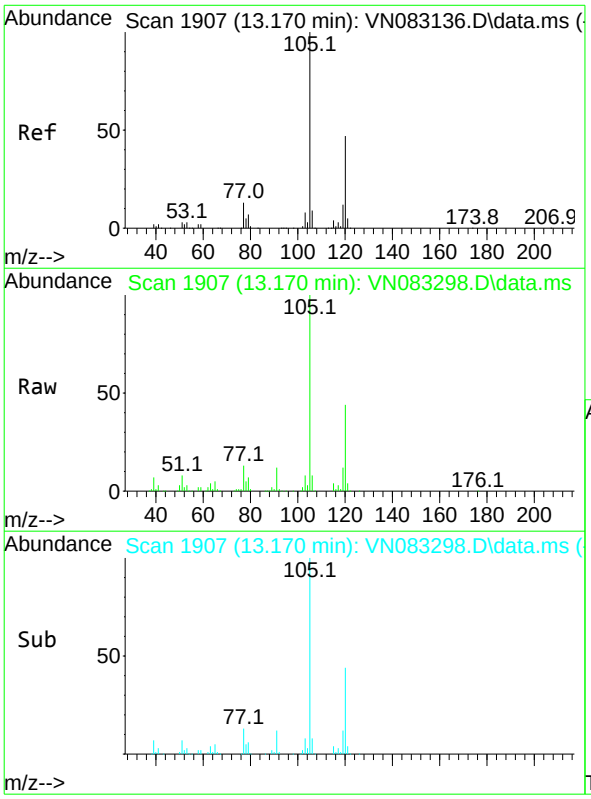
Ion	Ratio	Lower	Upper
91	100		
126	30.7	16.2	48.6



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations
APPROVED

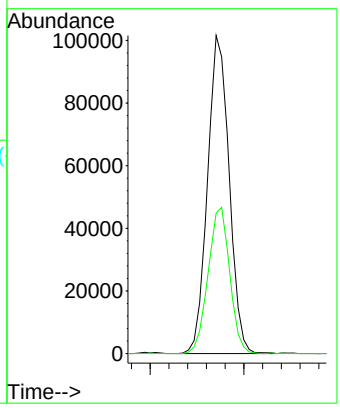
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

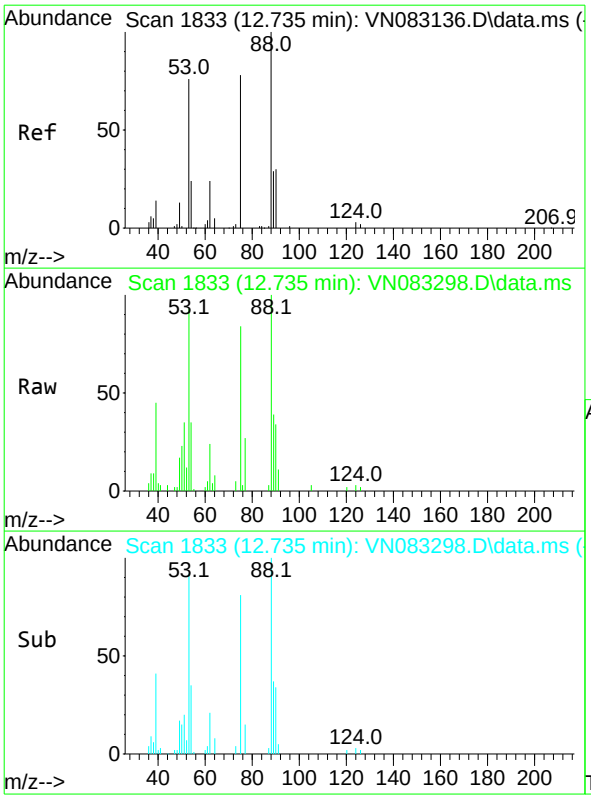


#80
1,3,5-Trimethylbenzene
Concen: 19.735 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion:105 Resp: 162894

Ion	Ratio	Lower	Upper
105	100		
120	45.9	24.3	72.8





#81
trans-1,4-Dichloro-2-butene
Concen: 18.289 ug/l
RT: 12.735 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

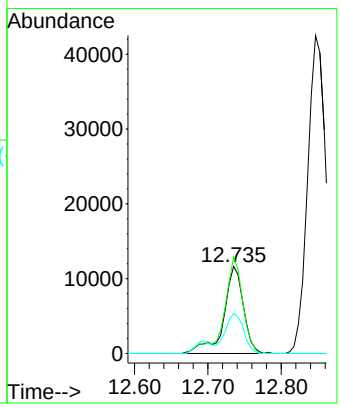
Tgt Ion: 75 Resp: 21751

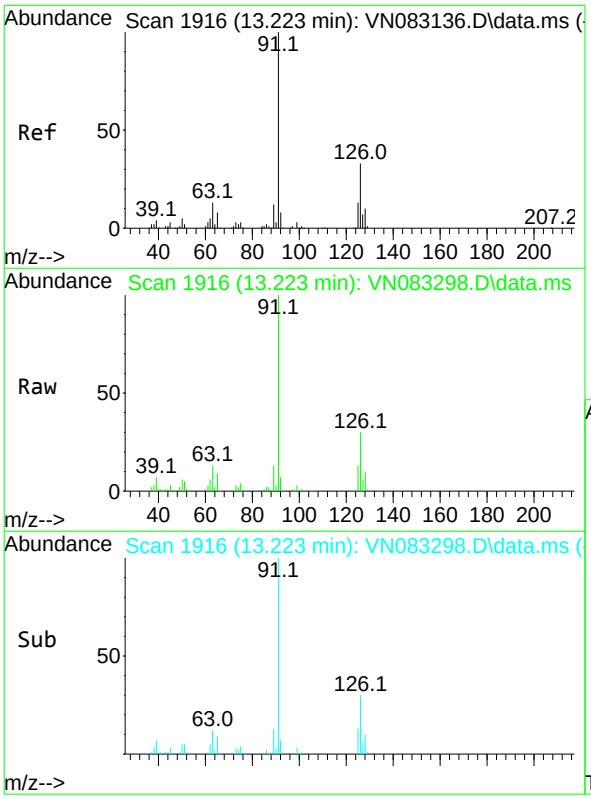
Ion	Ratio	Lower	Upper
75	100		
53	104.9	88.4	132.6
89	42.2	36.3	54.5

Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

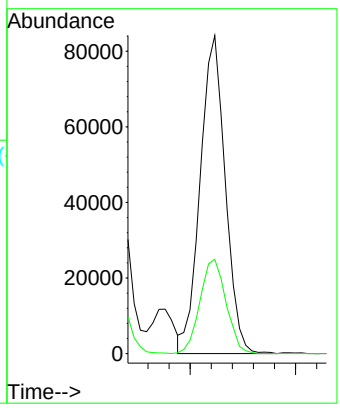


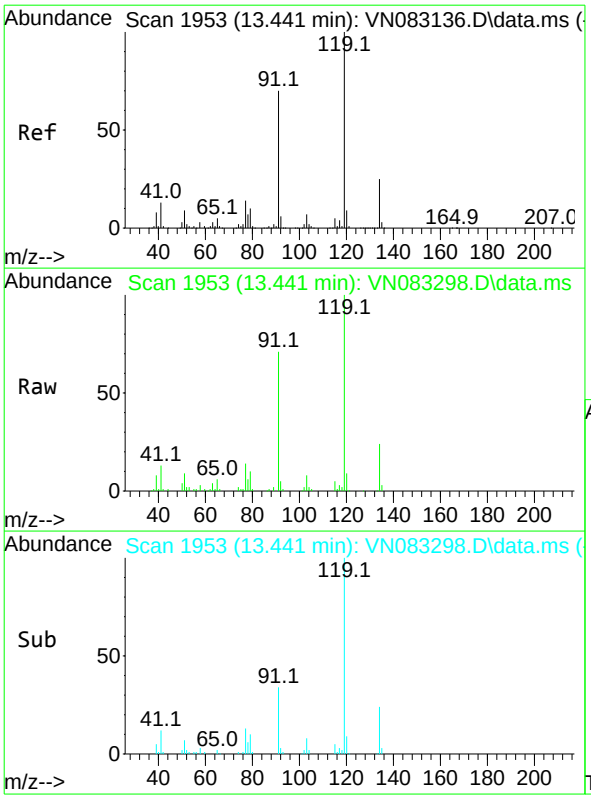


#82
4-Chlorotoluene
Concen: 19.252 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 91 Resp: 138990

Ion	Ratio	Lower	Upper
91	100		
126	30.8	16.2	48.6

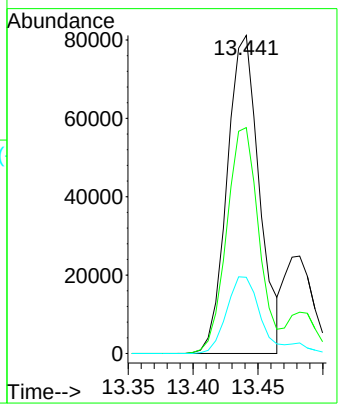




#83
tert-Butylbenzene
Concen: 19.177 ug/l
RT: 13.441 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion:119 Resp: 140176

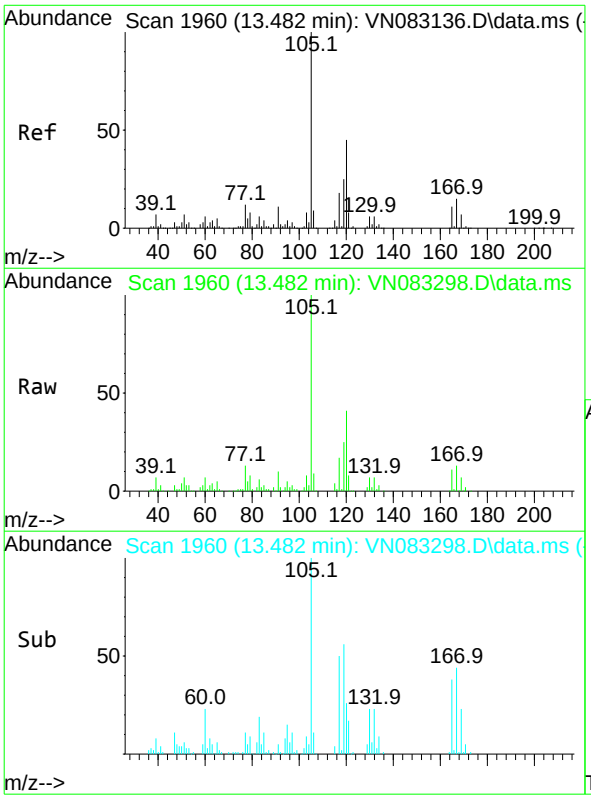
Ion	Ratio	Lower	Upper
119	100		
91	70.7	35.0	105.1
134	26.9	13.3	39.8



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations APPROVED

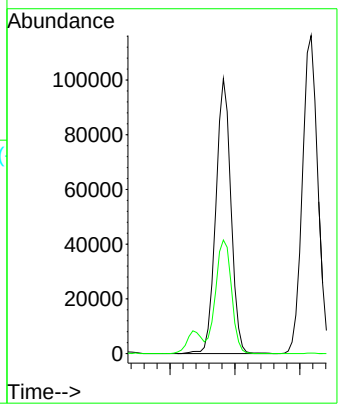
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

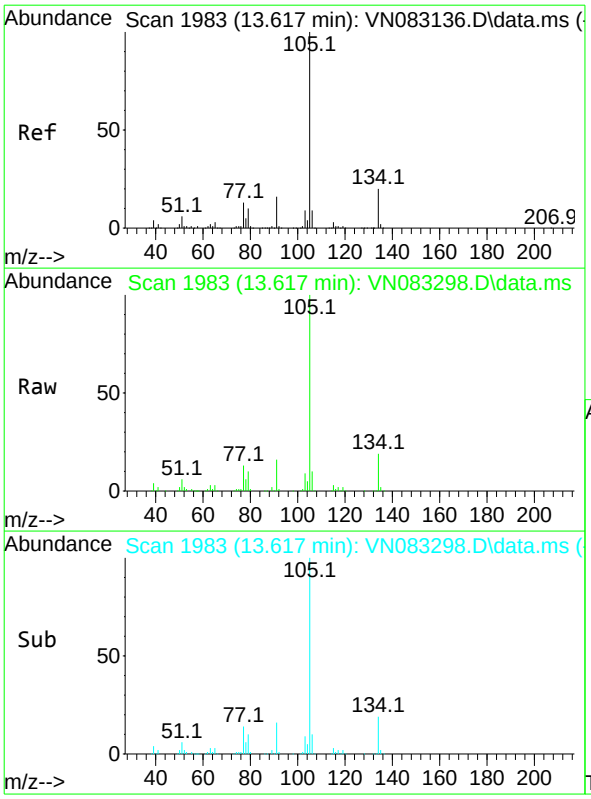


#84
1,2,4-Trimethylbenzene
Concen: 19.484 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion:105 Resp: 162074

Ion	Ratio	Lower	Upper
105	100		
120	43.7	21.9	65.8

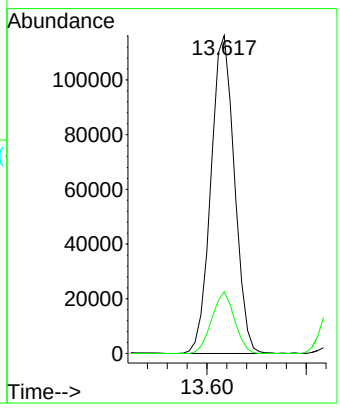




#85
sec-Butylbenzene
Concen: 19.208 ug/l
RT: 13.617 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion:105 Resp: 191578

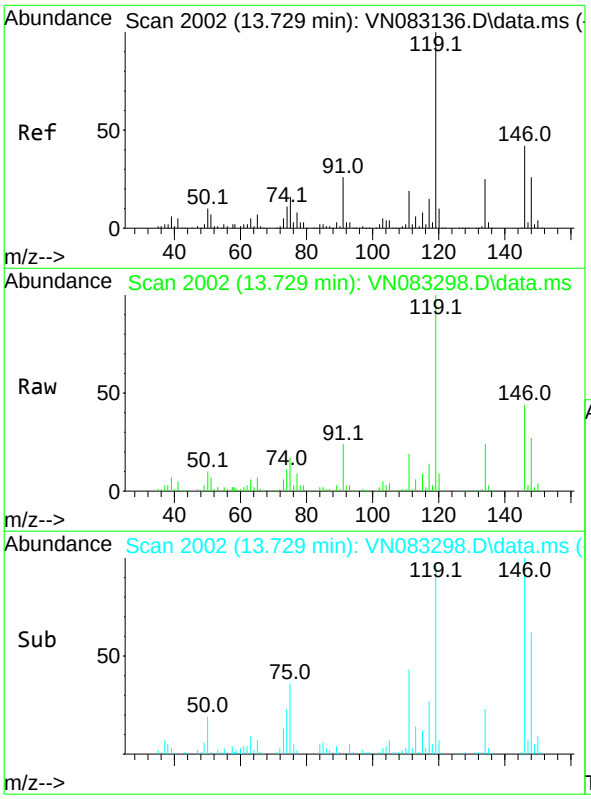
Ion	Ratio	Lower	Upper
105	100		
134	18.7	9.8	29.3



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations APPROVED

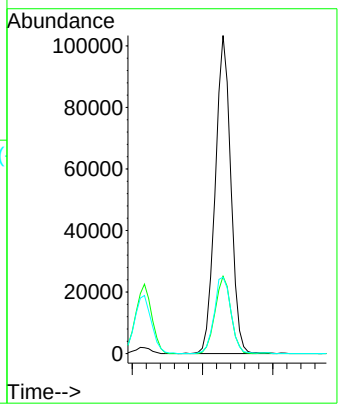
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

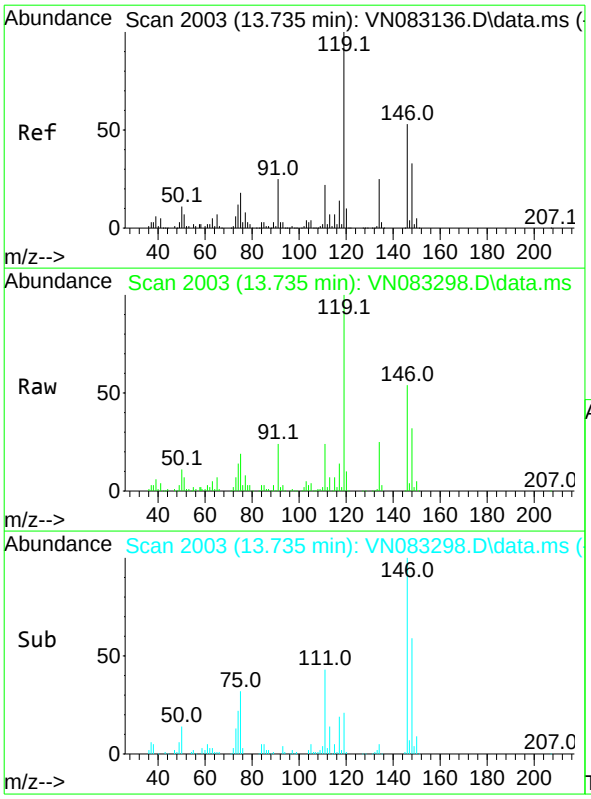


#86
p-Isopropyltoluene
Concen: 19.287 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion:119 Resp: 158838

Ion	Ratio	Lower	Upper
119	100		
134	24.7	13.0	39.0
91	25.9	12.3	36.9

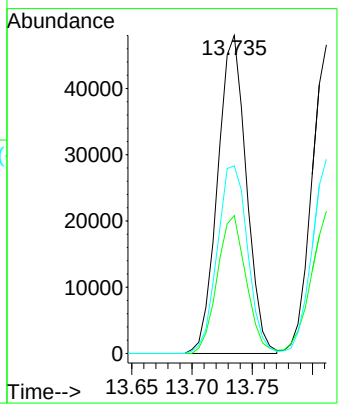




#87
1,3-Dichlorobenzene
Concen: 19.337 ug/l
RT: 13.735 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion:146 Resp: 79688

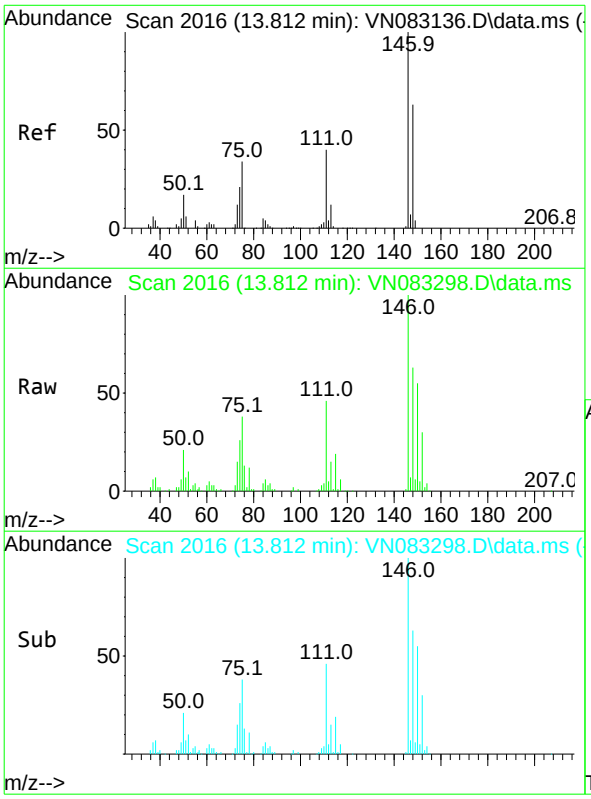
Ion	Ratio	Lower	Upper
146	100		
111	43.6	20.6	61.9
148	62.3	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations
APPROVED

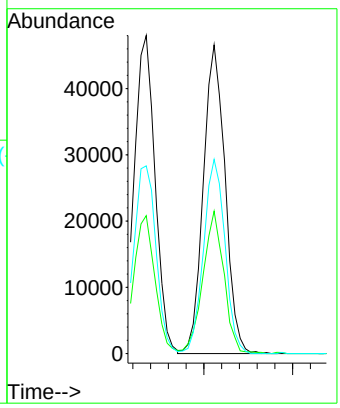
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

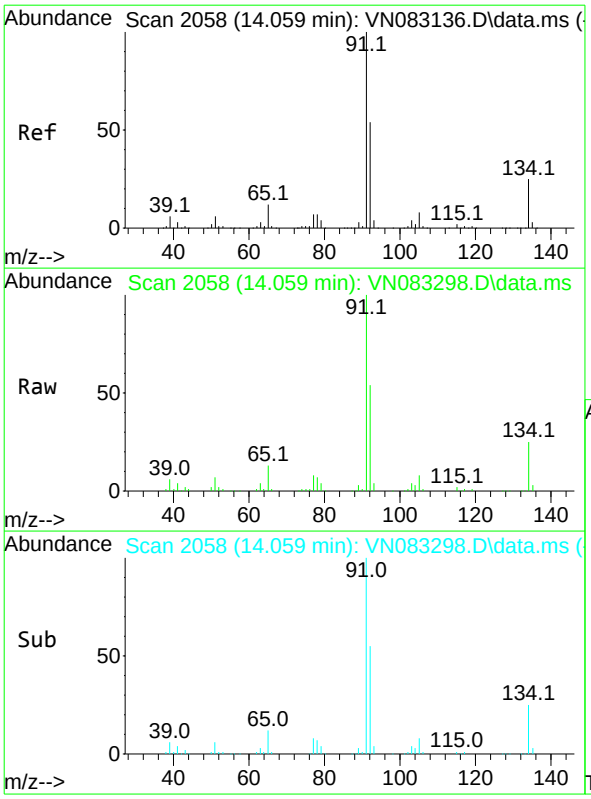


#88
1,4-Dichlorobenzene
Concen: 19.128 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion:146 Resp: 79466

Ion	Ratio	Lower	Upper
146	100		
111	44.7	20.1	60.3
148	62.0	32.2	96.6

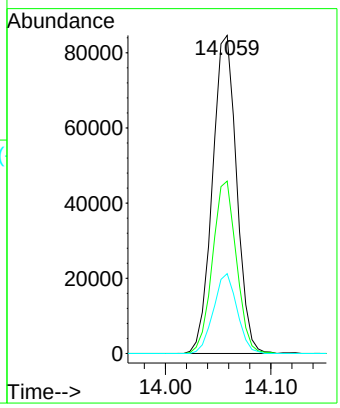




#89
n-Butylbenzene
Concen: 18.886 ug/l
RT: 14.059 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 91 Resp: 134766

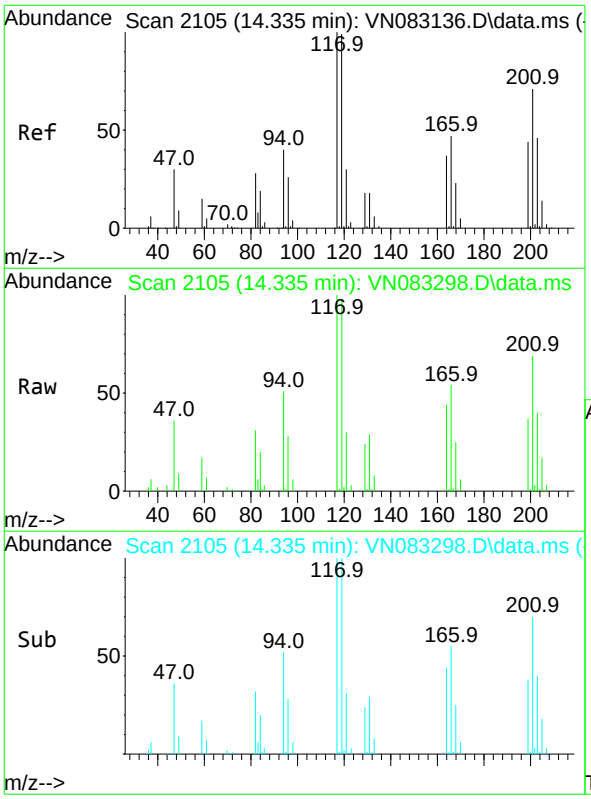
Ion	Ratio	Lower	Upper
91	100		
92	53.6	26.1	78.3
134	24.6	12.1	36.3



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations
APPROVED

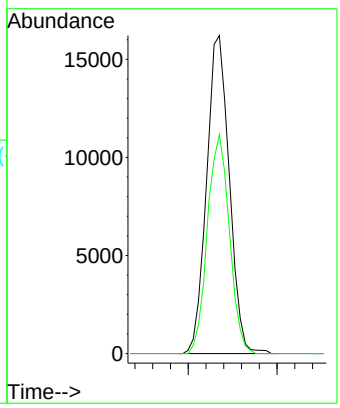
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

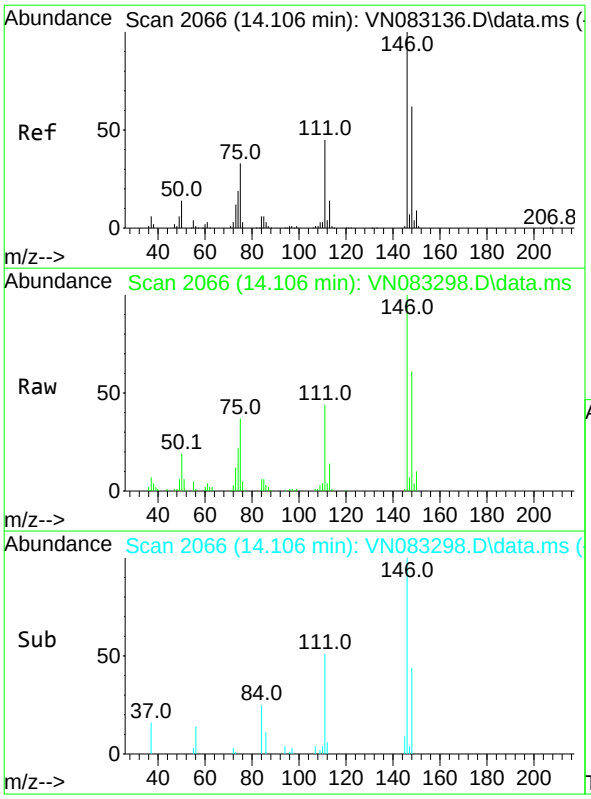


#90
Hexachloroethane
Concen: 18.128 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion:117 Resp: 28843

Ion	Ratio	Lower	Upper
117	100		
201	66.4	35.8	107.3

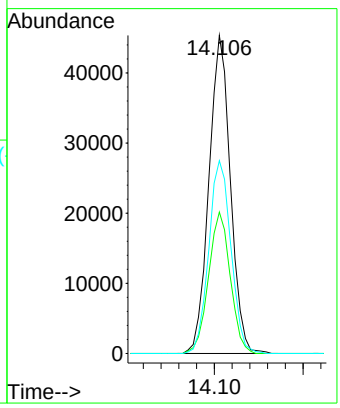




#91
1,2-Dichlorobenzene
Concen: 19.107 ug/l
RT: 14.106 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion:146 Resp: 76195

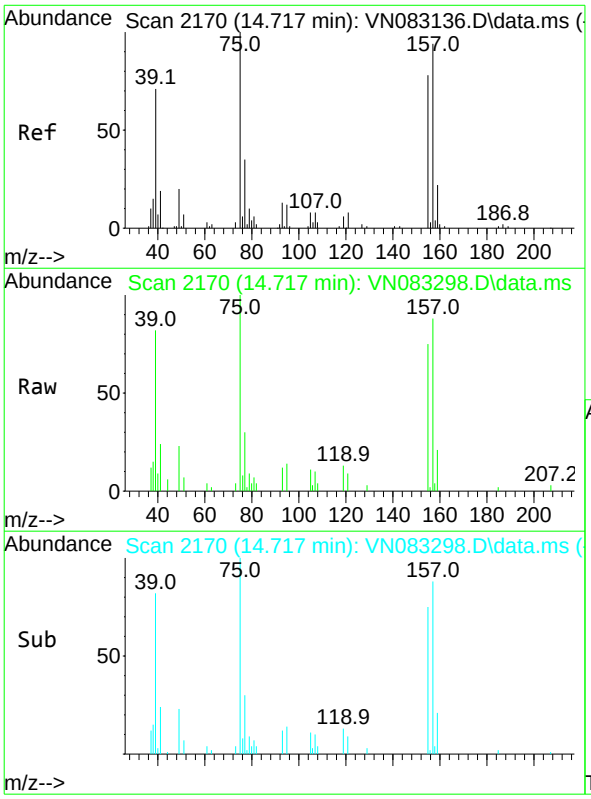
Ion	Ratio	Lower	Upper
146	100		
111	45.0	21.4	64.2
148	62.6	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations APPROVED

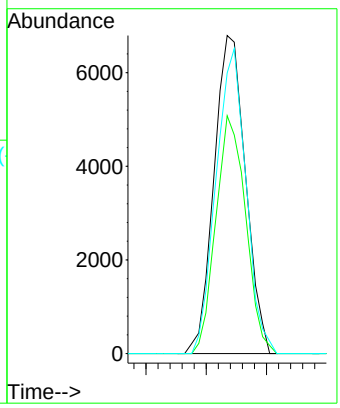
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

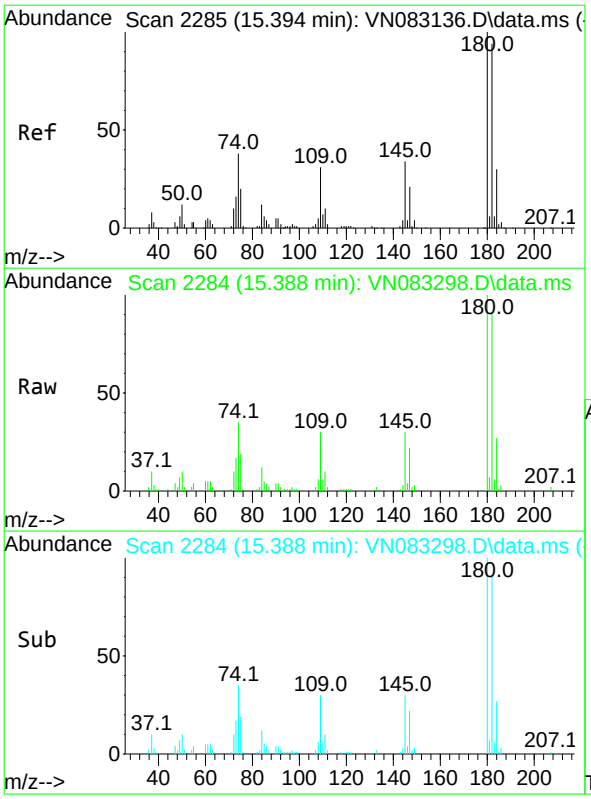


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.206 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion: 75 Resp: 12319

Ion	Ratio	Lower	Upper
75	100		
155	70.8	36.6	109.8
157	91.2	46.9	140.6

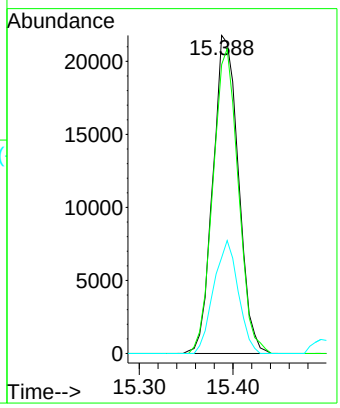




#93
1,2,4-Trichlorobenzene
Concen: 18.393 ug/l
RT: 15.388 min Scan# 22
Delta R.T. -0.006 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion:180 Resp: 41092

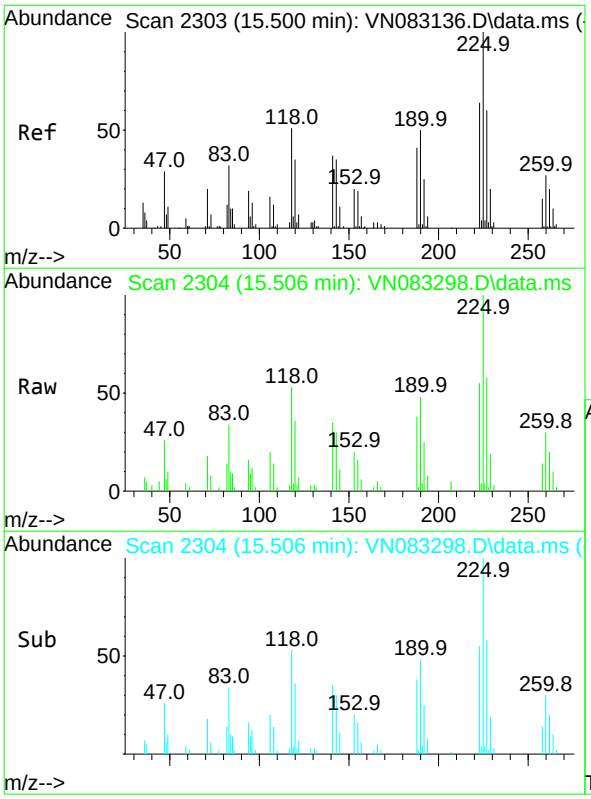
Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.3	141.8
145	34.2	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations
APPROVED

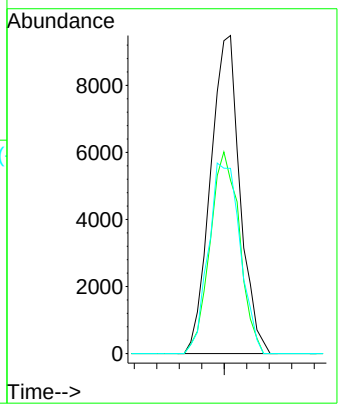
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024

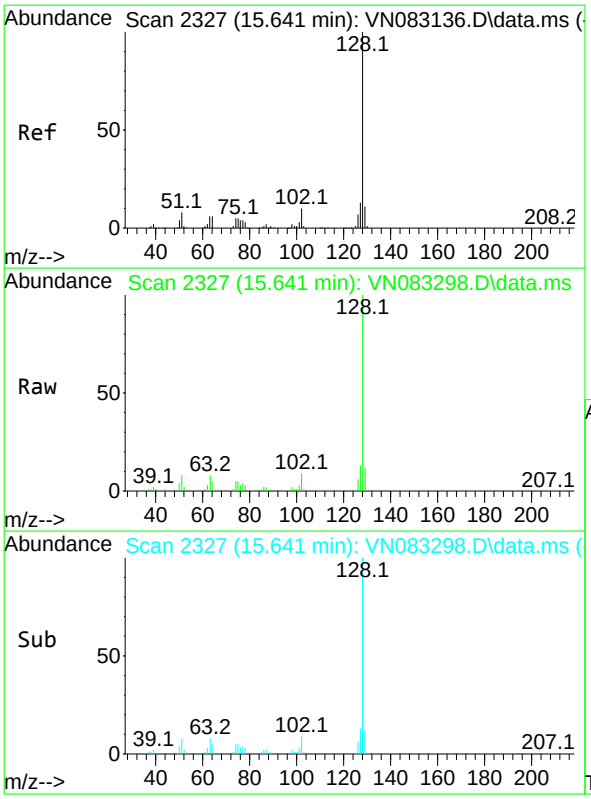


#94
Hexachlorobutadiene
Concen: 17.378 ug/l
RT: 15.506 min Scan# 2304
Delta R.T. 0.006 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion:225 Resp: 17266

Ion	Ratio	Lower	Upper
225	100		
223	63.2	31.9	95.7
227	64.5	32.5	97.5

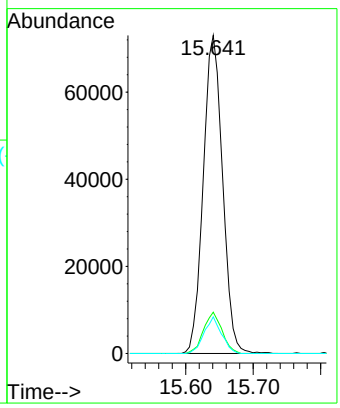




#95
Naphthalene
Concen: 18.358 ug/l
RT: 15.641 min Scan# 23
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion:128 Resp: 145278

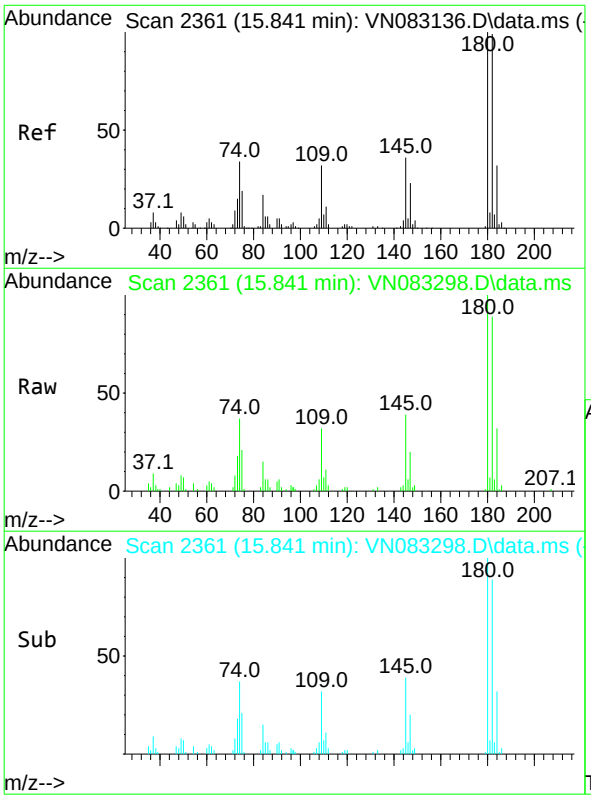
Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.6	16.0
129	10.4	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VN0814WBS01

Manual Integrations
APPROVED

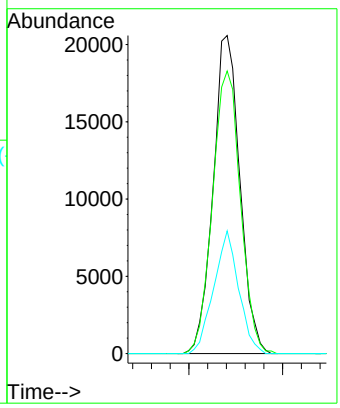
Reviewed By :Mahesh Dadoda 08/15/2024
Supervised By :Semsettin Yesilyurt 08/15/2024



#96
1,2,3-Trichlorobenzene
Concen: 18.450 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. -0.000 min
Lab File: VN083298.D
Acq: 14 Aug 2024 14:03

Tgt Ion:180 Resp: 40786

Ion	Ratio	Lower	Upper
180	100		
182	92.6	48.9	146.8
145	36.0	16.8	50.4



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:	VN0812WBSD01	SDG No.:	P3429
Lab Sample ID:	VN0812WBSD01	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
VN083229.D	1		08/12/24 11:46	VN081224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.7		0.21	1.00	ug/L
74-87-3	Chloromethane	18.0		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	18.6		0.34	1.00	ug/L
74-83-9	Bromomethane	19.2		1.40	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.3		0.25	1.00	ug/L
67-64-1	Acetone	97.8		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	18.5		0.16	1.00	ug/L
75-09-2	Methylene Chloride	17.3		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.4		0.25	1.00	ug/L
110-82-7	Cyclohexane	17.1		1.60	5.00	ug/L
78-93-3	2-Butanone	91.7		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.0		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	19.3		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.2		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	18.1		0.19	1.00	ug/L
71-43-2	Benzene	18.7		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.7		0.24	1.00	ug/L
79-01-6	Trichloroethene	19.2		0.32	1.00	ug/L
75-27-4	Bromodichloromethane	18.3		0.24	1.00	ug/L
108-88-3	Toluene	18.8		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.4		0.21	1.00	ug/L
124-48-1	Dibromochloromethane	18.8		0.18	1.00	ug/L
127-18-4	Tetrachloroethene	18.7		0.25	1.00	ug/L
108-90-7	Chlorobenzene	18.6		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	18.6		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	37.3		0.31	2.00	ug/L
1330-20-7	Total Xylenes	56.0		0.45	3.00	ug/L
95-47-6	o-Xylene	18.7		0.14	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:	VN0812WBSD01	SDG No.:	P3429
Lab Sample ID:	VN0812WBSD01	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
VN083229.D	1		08/12/24 11:46	VN081224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
98-82-8	Isopropylbenzene	18.4		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	18.2		0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.8		70 (74) - 130 (125)	98%	SPK: 50
1868-53-7	Dibromofluoromethane	46.0		70 (75) - 130 (124)	92%	SPK: 50
2037-26-5	Toluene-d8	46.4		70 (86) - 130 (113)	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.3		70 (77) - 130 (121)	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	187000	8.224			
540-36-3	1,4-Difluorobenzene	320000	9.1			
3114-55-4	Chlorobenzene-d5	276000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	130000	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\VN081224\
Data File : VN083229.D
Acq On : 12 Aug 2024 11:46
Operator : JC\MD
Sample : VN0812WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 13 04:14:06 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 :
VN0812WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	186747	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	319813	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	275661	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	129761	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	129589	48.752	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 97.500%			
35) Dibromofluoromethane	8.165	113	91733	45.954	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 91.900%			
50) Toluene-d8	10.565	98	345314	46.374	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 92.740%			
62) 4-Bromofluorobenzene	12.847	95	131576	45.324	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 90.640%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	39688	18.741	ug/l	97
3) Chloromethane	2.359	50	38942	17.961	ug/l	97
4) Vinyl Chloride	2.518	62	41139	18.595	ug/l	97
5) Bromomethane	2.959	94	26406	19.236	ug/l	97
6) Chloroethane	3.124	64	26311	19.009	ug/l	95
7) Trichlorofluoromethane	3.495	101	69420	18.995	ug/l	100
8) Diethyl Ether	3.965	74	24585	18.078	ug/l	87
9) 1,1,2-Trichlorotrifluo...	4.365	101	38977	19.344	ug/l	99
10) Methyl Iodide	4.589	142	47501	17.921	ug/l	98
11) Tert butyl alcohol	5.524	59	43653	79.023	ug/l	99
12) 1,1-Dichloroethene	4.342	96	36631	17.695	ug/l	91
13) Acrolein	4.183	56	23588	65.517	ug/l	99
14) Allyl chloride	5.024	41	68407	17.486	ug/l	91
15) Acrylonitrile	5.718	53	99513	87.591	ug/l	100
16) Acetone	4.424	43	101736	97.812	ug/l	97
17) Carbon Disulfide	4.712	76	99714	16.462	ug/l	100
18) Methyl Acetate	5.024	43	55591	17.939	ug/l	91
19) Methyl tert-butyl Ether	5.800	73	138237	18.501	ug/l	93
20) Methylene Chloride	5.277	84	41310	17.257	ug/l	85
21) trans-1,2-Dichloroethene	5.783	96	37251	17.410	ug/l	96
22) Diisopropyl ether	6.671	45	135241	18.391	ug/l #	93
23) Vinyl Acetate	6.600	43	712516m	94.533	ug/l	
24) 1,1-Dichloroethane	6.571	63	76297	19.035	ug/l	98
25) 2-Butanone	7.482	43	146409	91.673	ug/l	91
26) 2,2-Dichloropropane	7.488	77	73580	19.767	ug/l	99
27) cis-1,2-Dichloroethene	7.488	96	47418	18.366	ug/l	94
28) Bromochloromethane	7.818	49	31274	19.093	ug/l	88
29) Tetrahydrofuran	7.835	42	91342	88.475	ug/l	90
30) Chloroform	7.971	83	80486	19.328	ug/l	98
31) Cyclohexane	8.253	56	67167	17.051	ug/l	95
32) 1,1,1-Trichloroethane	8.171	97	75701	19.206	ug/l	92
36) 1,1-Dichloropropene	8.371	75	56568	18.733	ug/l	99
37) Ethyl Acetate	7.559	43	57344	16.960	ug/l #	97
38) Carbon Tetrachloride	8.365	117	64763	19.042	ug/l	98
39) Methylcyclohexane	9.600	83	67050	18.078	ug/l	94
40) Benzene	8.606	78	168282	18.707	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081224\
Data File : VN083229.D
Acq On : 12 Aug 2024 11:46
Operator : JC\MD
Sample : VN0812WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 13 04:14:06 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 :
VN0812WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	32902	17.115	ug/l		96
42) 1,2-Dichloroethane	8.671	62	64593	19.711	ug/l		100
43) Isopropyl Acetate	8.688	43	111521	17.579	ug/l		97
44) Trichloroethene	9.353	130	41028	19.161	ug/l		92
45) 1,2-Dichloropropane	9.624	63	41393	19.385	ug/l		90
46) Dibromomethane	9.706	93	29632	19.387	ug/l		99
47) Bromodichloromethane	9.888	83	62802	18.300	ug/l		96
48) Methyl methacrylate	9.682	41	49729	17.790	ug/l		95
49) 1,4-Dioxane	9.700	88	16982	336.746	ug/l		97
51) 4-Methyl-2-Pentanone	10.447	43	292541	91.498	ug/l		93
52) Toluene	10.629	92	106758	18.783	ug/l		99
53) t-1,3-Dichloropropene	10.835	75	66033	18.732	ug/l		100
54) cis-1,3-Dichloropropene	10.312	75	70422	18.781	ug/l		92
55) 1,1,2-Trichloroethane	11.018	97	39592	19.437	ug/l		98
56) Ethyl methacrylate	10.876	69	68248	17.773	ug/l		87
57) 1,3-Dichloropropane	11.165	76	67855	18.689	ug/l		98
58) 2-Chloroethyl Vinyl ether	10.159	63	139581	85.993	ug/l		97
59) 2-Hexanone	11.194	43	225064	90.989	ug/l		94
60) Dibromochloromethane	11.359	129	46323	18.810	ug/l		98
61) 1,2-Dibromoethane	11.470	107	39185	18.313	ug/l		99
64) Tetrachloroethene	11.106	164	34197	18.732	ug/l		94
65) Chlorobenzene	11.894	112	113379	18.612	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.959	131	39102	18.200	ug/l		98
67) Ethyl Benzene	11.965	91	207967	18.610	ug/l		100
68) m/p-Xylenes	12.070	106	156037	37.275	ug/l		96
69) o-Xylene	12.400	106	77090	18.672	ug/l		99
70) Styrene	12.412	104	128820	18.577	ug/l		99
71) Bromoform	12.576	173	29629	18.204	ug/l	#	98
73) Isopropylbenzene	12.694	105	200138	18.440	ug/l		100
74) N-amyl acetate	12.494	43	86625	16.317	ug/l		95
75) 1,1,2,2-Tetrachloroethane	12.935	83	55535	18.091	ug/l		97
76) 1,2,3-Trichloropropane	12.994	75	51599m	18.118	ug/l		
77) Bromobenzene	12.982	156	45972	19.068	ug/l		98
78) n-propylbenzene	13.035	91	230409	18.436	ug/l		99
79) 2-Chlorotoluene	13.123	91	145219	18.328	ug/l		97
80) 1,3,5-Trimethylbenzene	13.170	105	169051	18.604	ug/l		96
81) trans-1,4-Dichloro-2-b...	12.735	75	23009	17.574	ug/l		89
82) 4-Chlorotoluene	13.223	91	144886	18.230	ug/l		99
83) tert-Butylbenzene	13.441	119	146571	18.214	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	171027	18.676	ug/l		99
85) sec-Butylbenzene	13.617	105	205876	18.750	ug/l		99
86) p-Isopropyltoluene	13.729	119	166899	18.409	ug/l		98
87) 1,3-Dichlorobenzene	13.735	146	82823	18.256	ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	83205	18.192	ug/l		97
89) n-Butylbenzene	14.059	91	147482	18.774	ug/l		97
90) Hexachloroethane	14.335	117	30402	17.357	ug/l		95
91) 1,2-Dichlorobenzene	14.106	146	79697	18.154	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.717	75	12380	16.620	ug/l		99
93) 1,2,4-Trichlorobenzene	15.394	180	44773	18.204	ug/l		97
94) Hexachlorobutadiene	15.500	225	19366	17.705	ug/l		99
95) Naphthalene	15.641	128	149685	17.181	ug/l		99
96) 1,2,3-Trichlorobenzene	15.841	180	42430	17.435	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081224\
Data File : VN083229.D
Acq On : 12 Aug 2024 11:46
Operator : JC\MD
Sample : VN0812WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 13 04:14:06 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 :
VN0812WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

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

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

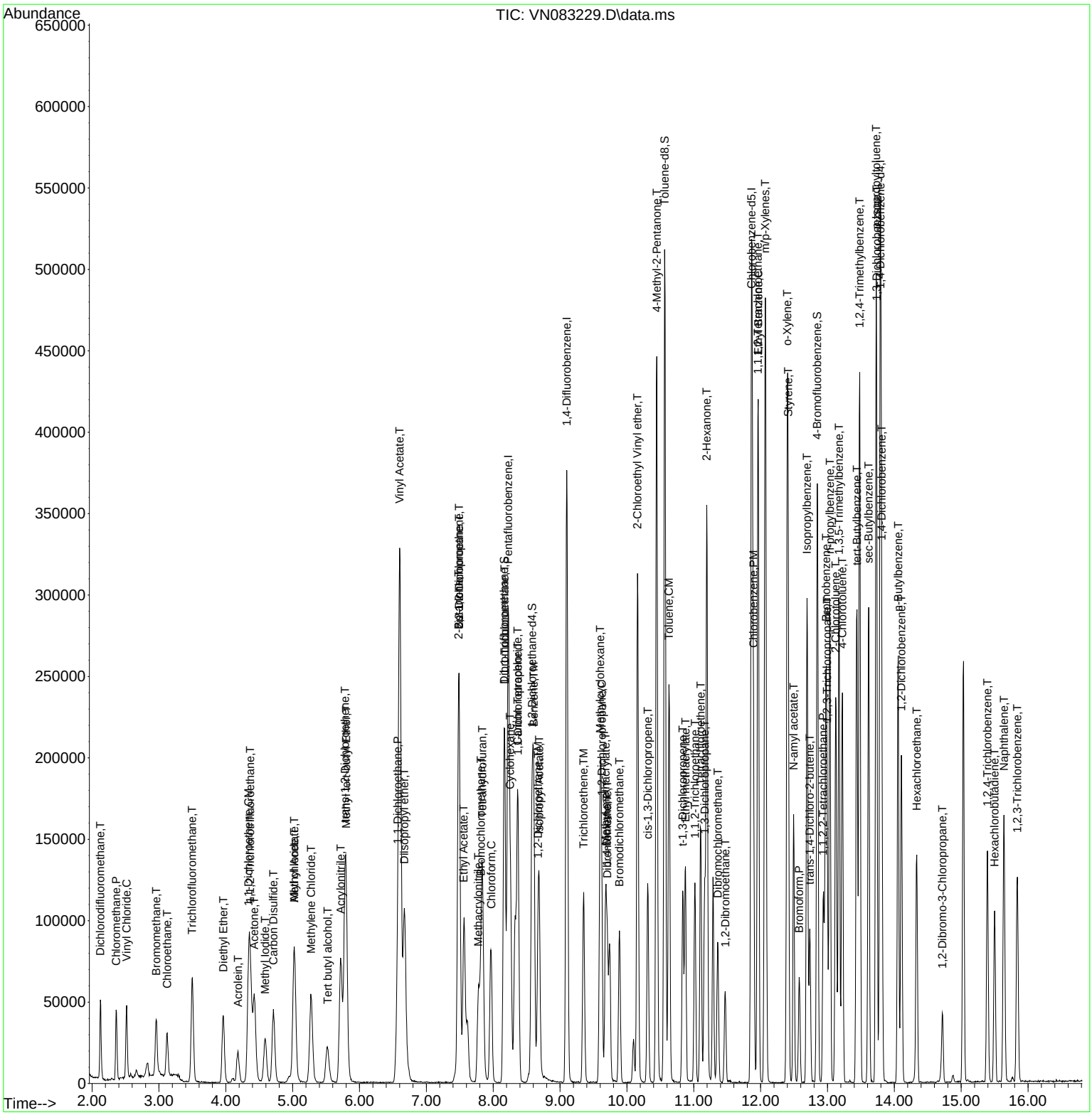
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081224\
Data File : VN083229.D
Acq On : 12 Aug 2024 11:46
Operator : JC\MD
Sample : VN0812WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

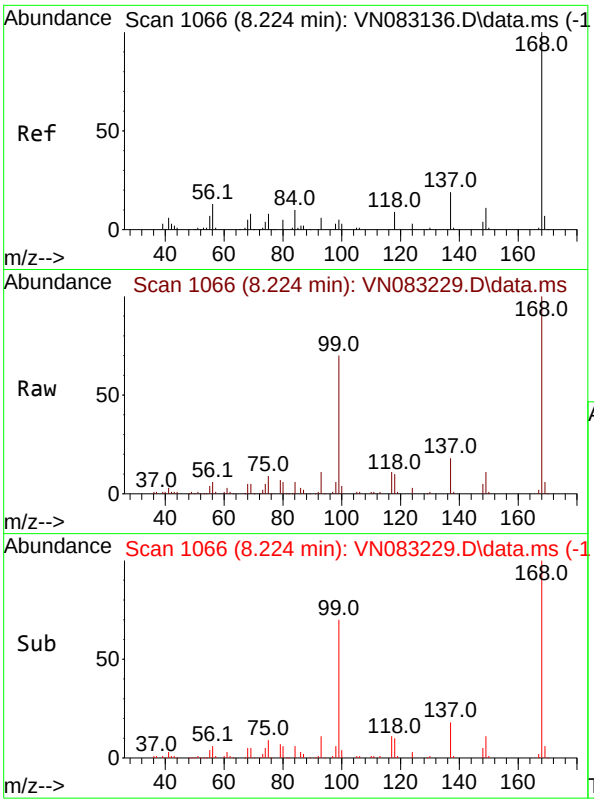
Quant Time: Aug 13 04:14:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

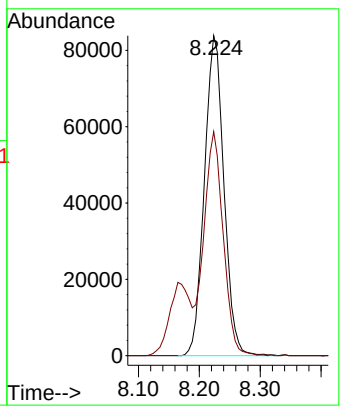




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion:168 Resp: 18674

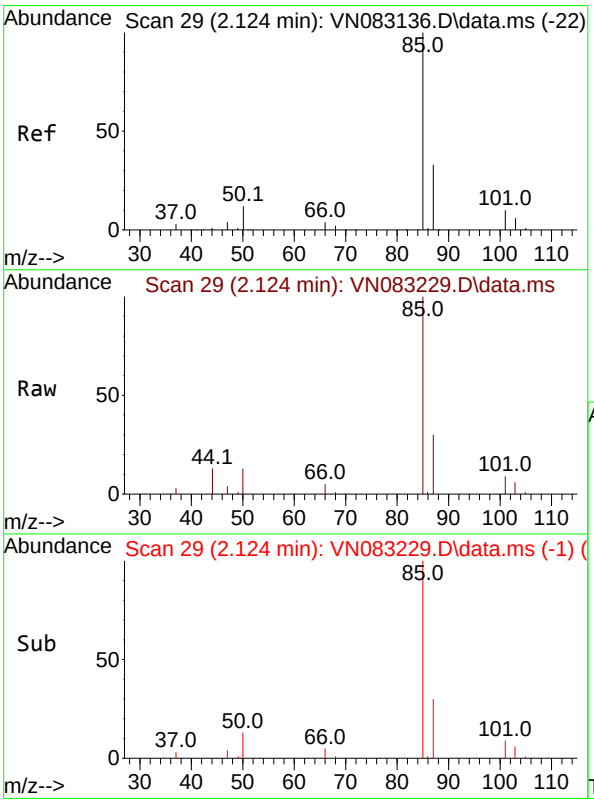
Ion	Ratio	Lower	Upper
168	100		
99	70.0	48.2	72.4



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

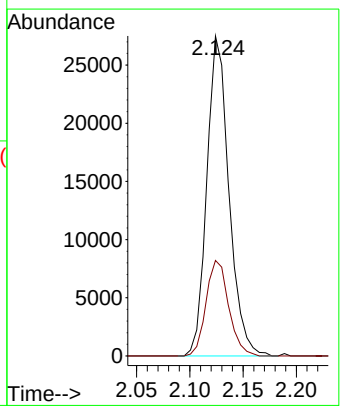
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

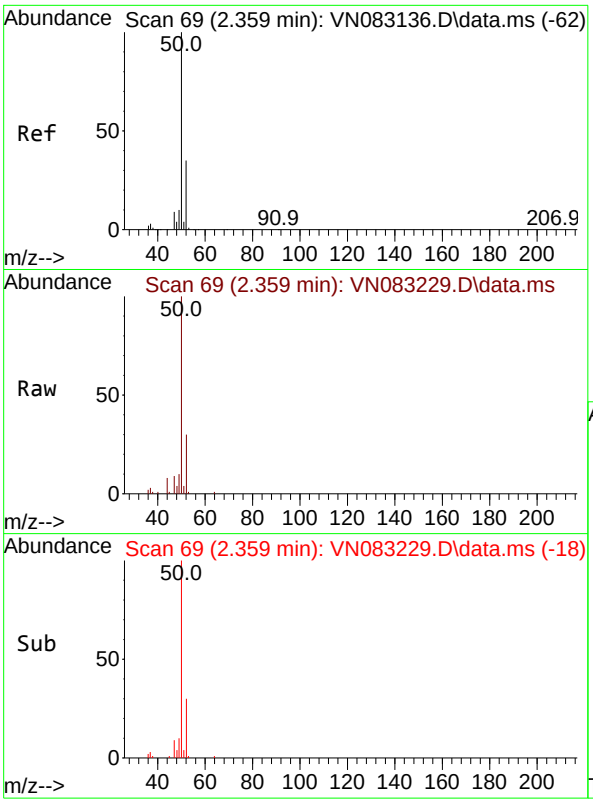


#2
Dichlorodifluoromethane
Concen: 18.741 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 85 Resp: 39688

Ion	Ratio	Lower	Upper
85	100		
87	29.9	15.7	47.0

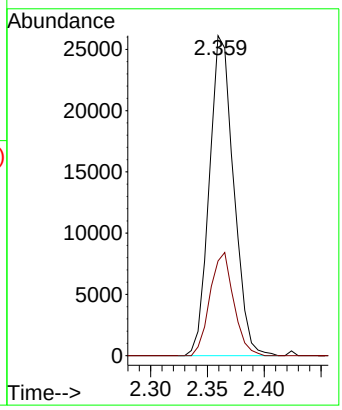




#3
Chloromethane
Concen: 17.961 ug/l
RT: 2.359 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 50 Resp: 3894

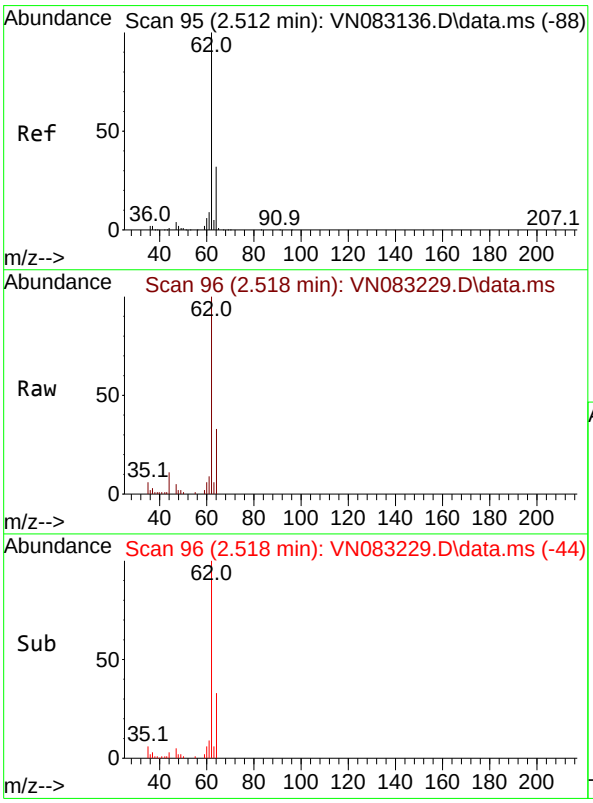
Ion	Ratio	Lower	Upper
50	100		
52	29.6	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

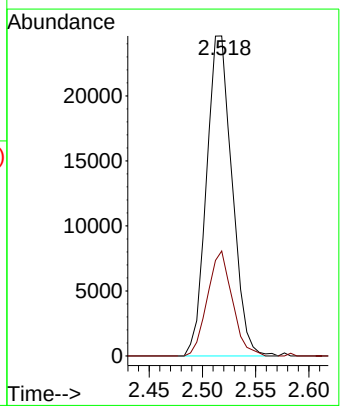
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

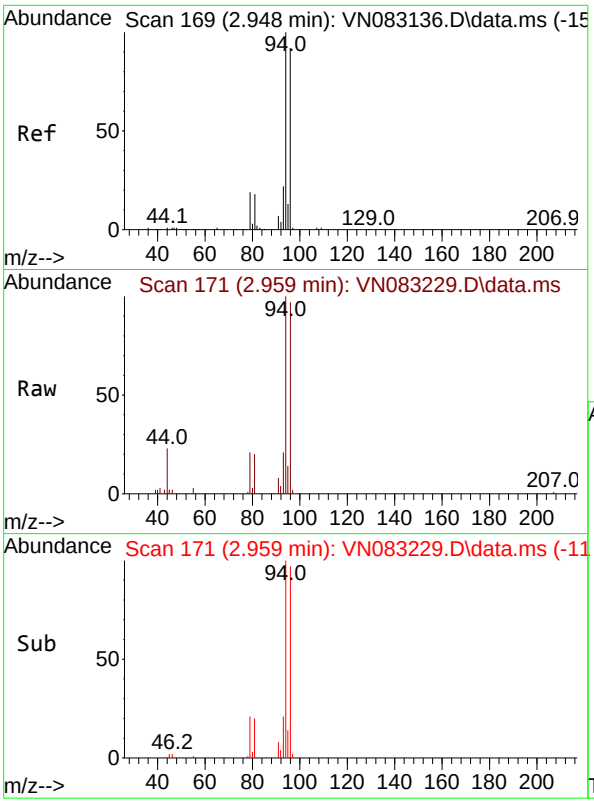


#4
Vinyl Chloride
Concen: 18.595 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 62 Resp: 41139

Ion	Ratio	Lower	Upper
62	100		
64	32.8	25.0	37.6

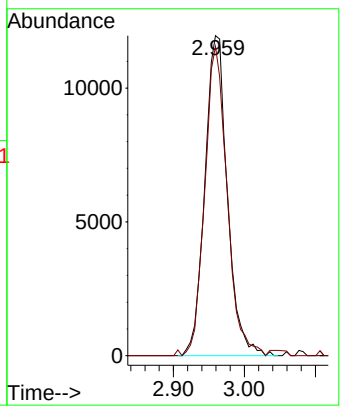




#5
Bromomethane
Concen: 19.236 ug/l
RT: 2.959 min Scan# 1
Delta R.T. 0.012 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 94 Resp: 2640

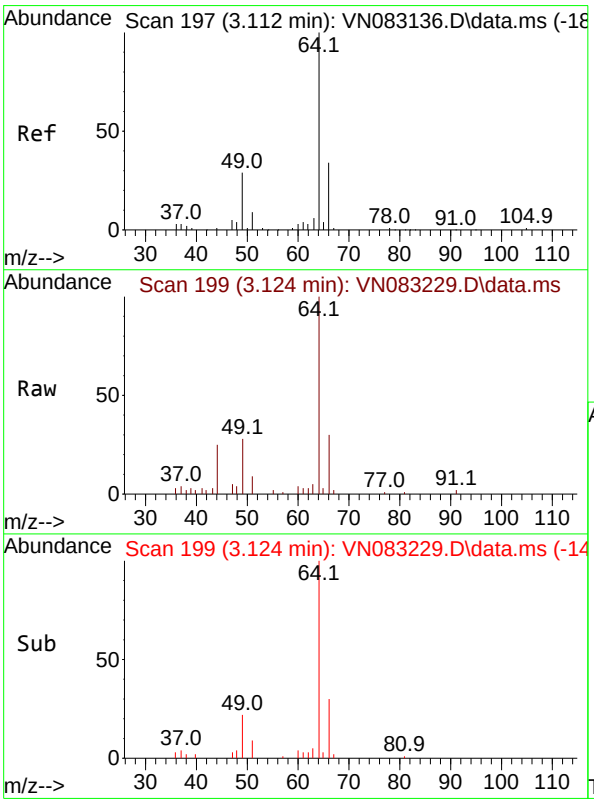
Ion	Ratio	Lower	Upper
94	100		
96	95.0	78.0	117.0



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

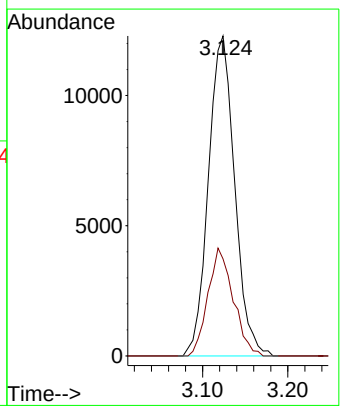
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

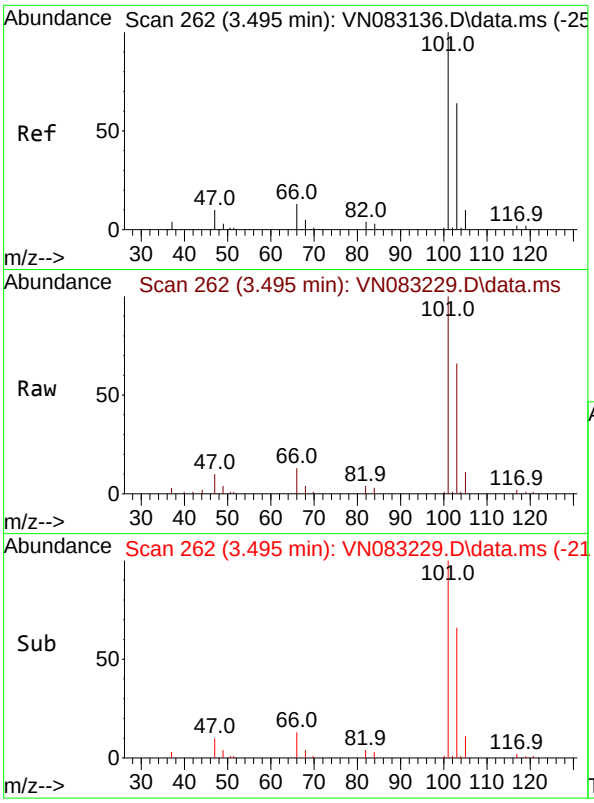


#6
Chloroethane
Concen: 19.009 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.012 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 64 Resp: 26311

Ion	Ratio	Lower	Upper
64	100		
66	30.4	26.6	40.0

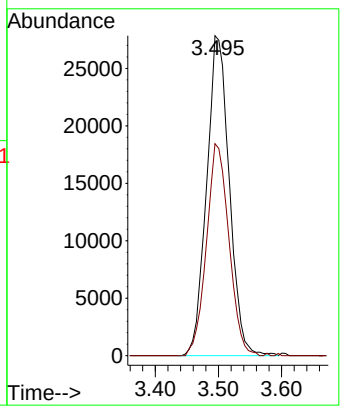




#7
Trichlorofluoromethane
Concen: 18.995 ug/l
RT: 3.495 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion:101 Resp: 6942

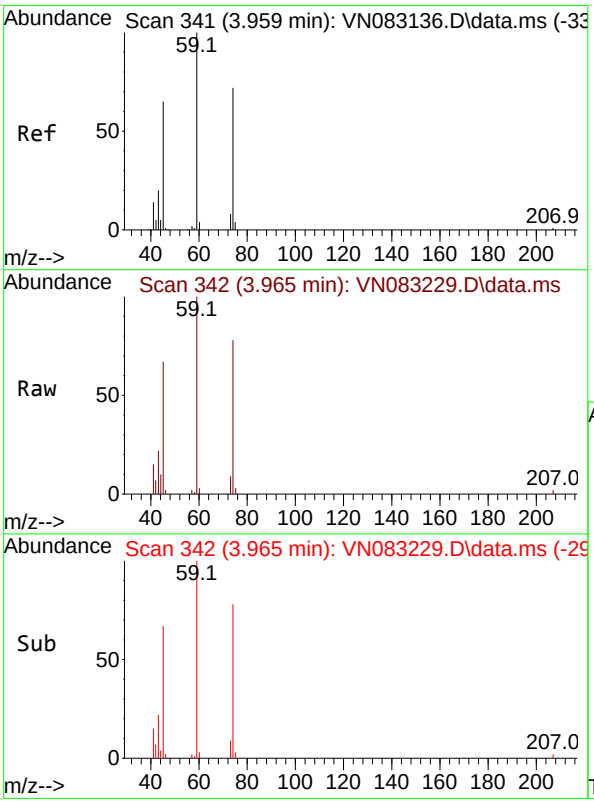
Ion	Ratio	Lower	Upper
101	100		
103	66.3	52.7	79.1



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

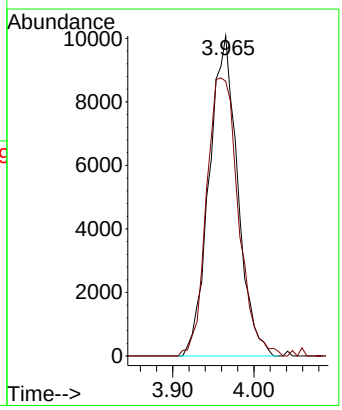
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

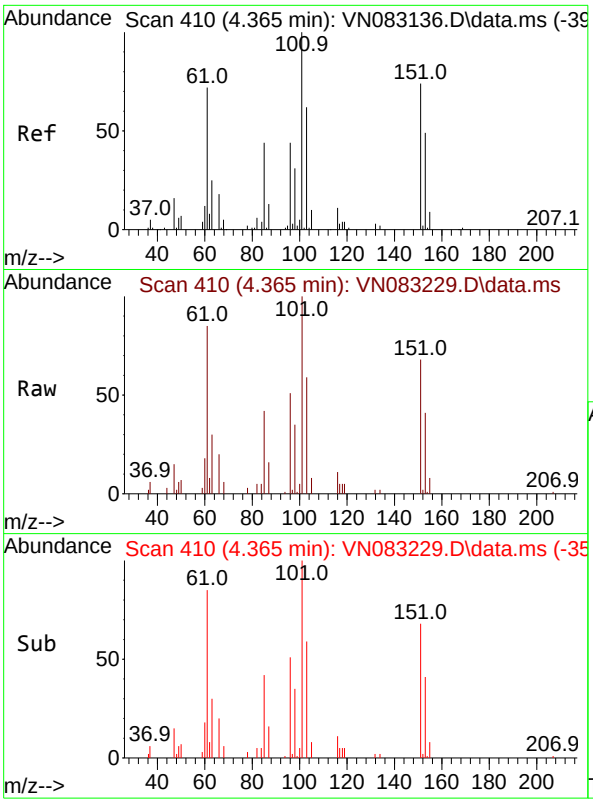


#8
Diethyl Ether
Concen: 18.078 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.006 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 74 Resp: 24585

Ion	Ratio	Lower	Upper
74	100		
45	97.0	55.5	166.3





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.344 ug/l
RT: 4.365 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

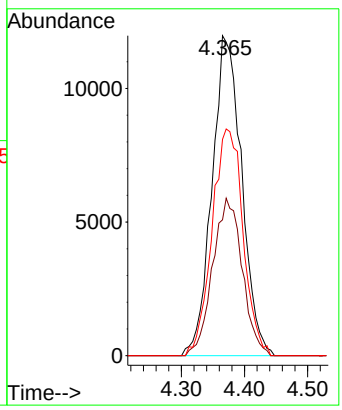
Tgt Ion:101 Resp: 3897

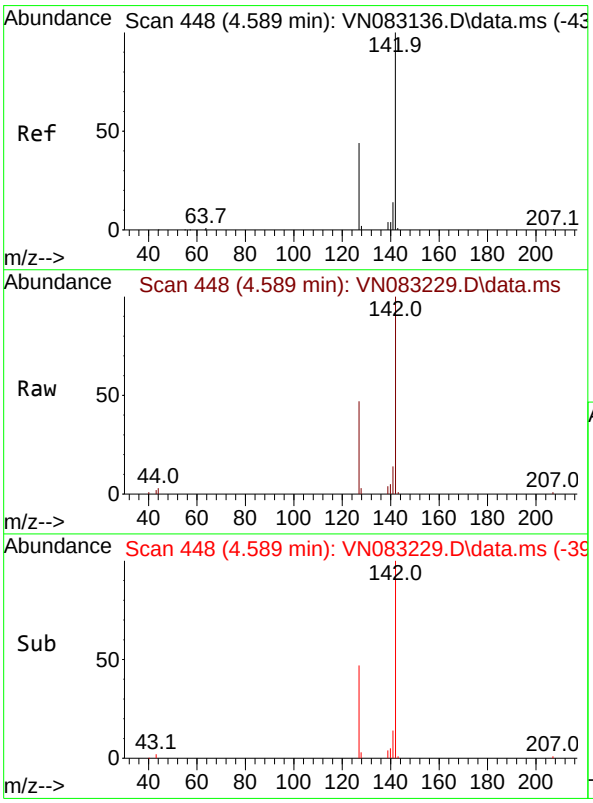
Ion	Ratio	Lower	Upper
101	100		
85	49.2	38.3	57.5
151	74.1	59.3	88.9

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

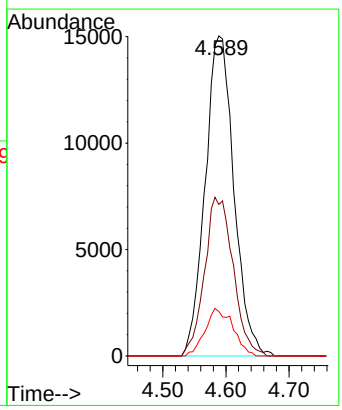


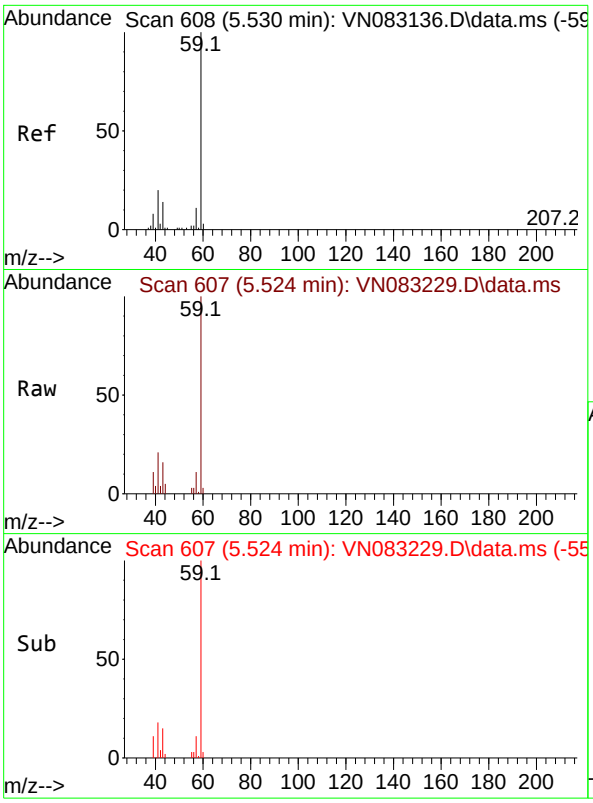


#10
Methyl Iodide
Concen: 17.921 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion:142 Resp: 47501

Ion	Ratio	Lower	Upper
142	100		
127	47.4	37.5	56.3
141	13.9	13.1	19.7

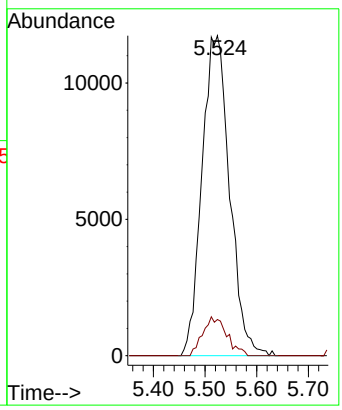




#11
Tert butyl alcohol
Concen: 79.023 ug/l
RT: 5.524 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 59 Resp: 4365

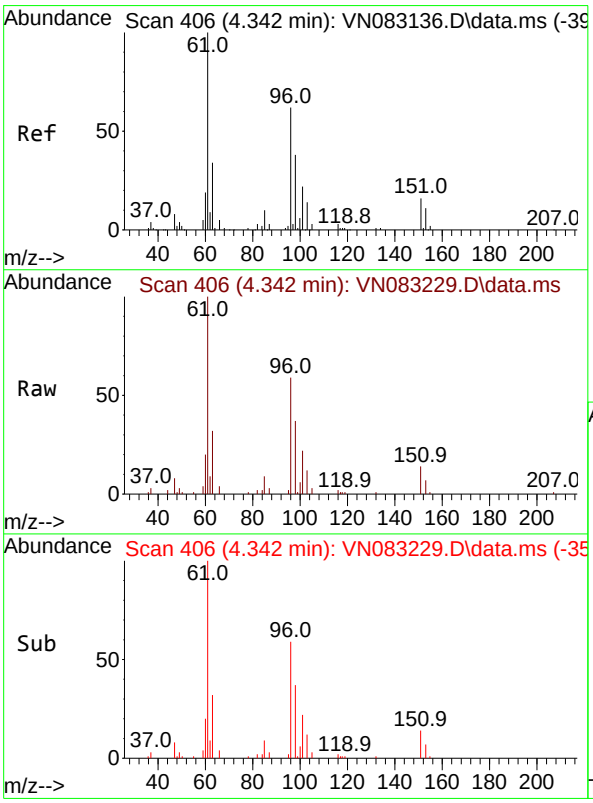
Ion	Ratio	Lower	Upper
59	100		
57	10.5	8.9	13.3



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

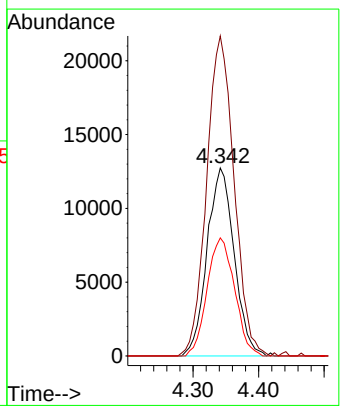
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

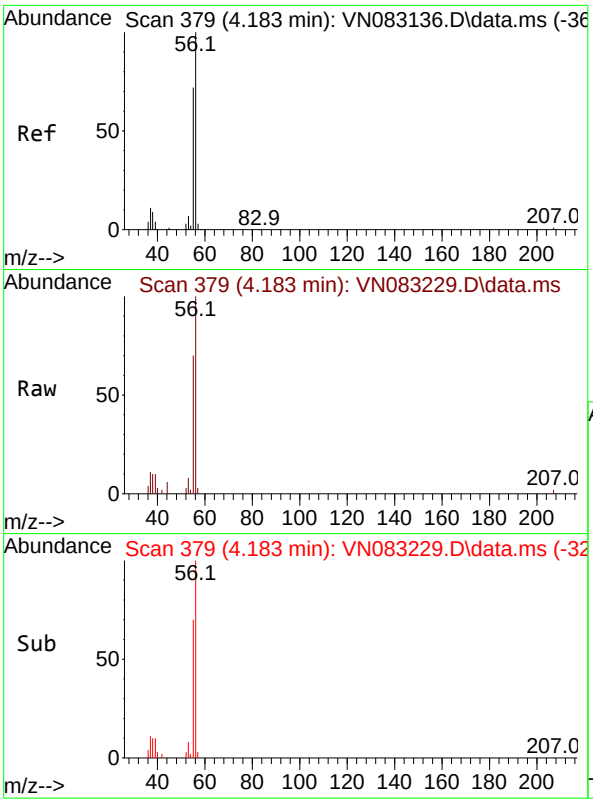


#12
1,1-Dichloroethene
Concen: 17.695 ug/l
RT: 4.342 min Scan# 406
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 96 Resp: 36631

Ion	Ratio	Lower	Upper
96	100		
61	170.2	149.7	224.5
98	62.8	50.1	75.1

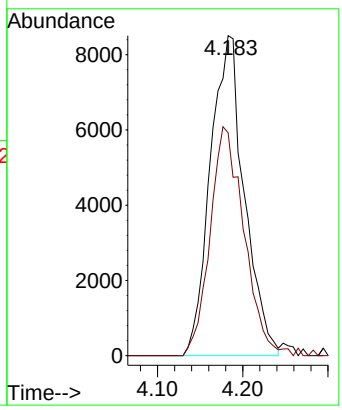




#13
Acrolein
Concen: 65.517 ug/l
RT: 4.183 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 56 Resp: 2358

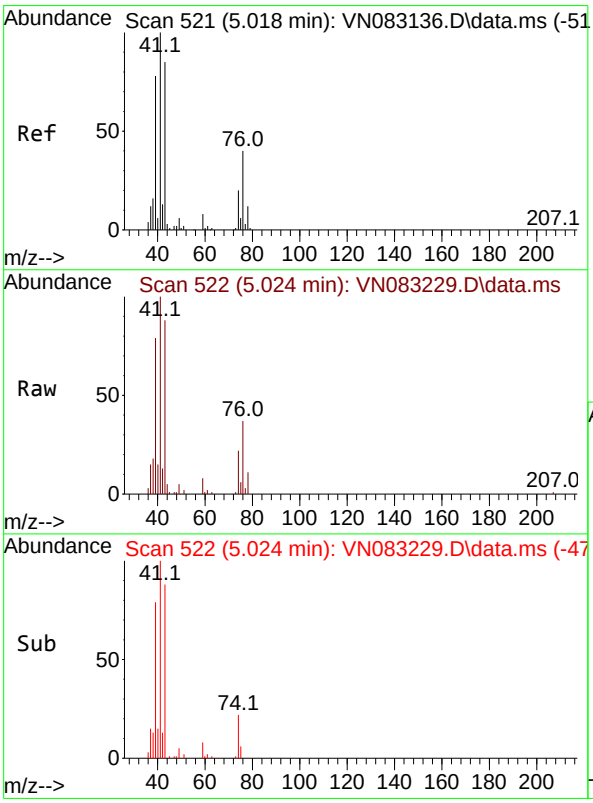
Ion	Ratio	Lower	Upper
56	100		
55	71.7	56.4	84.6



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

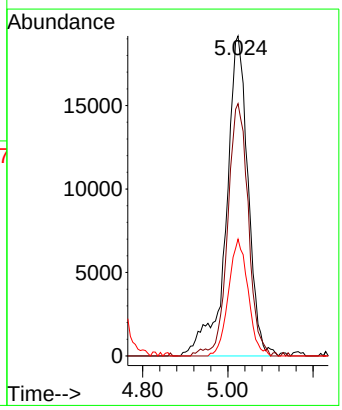
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

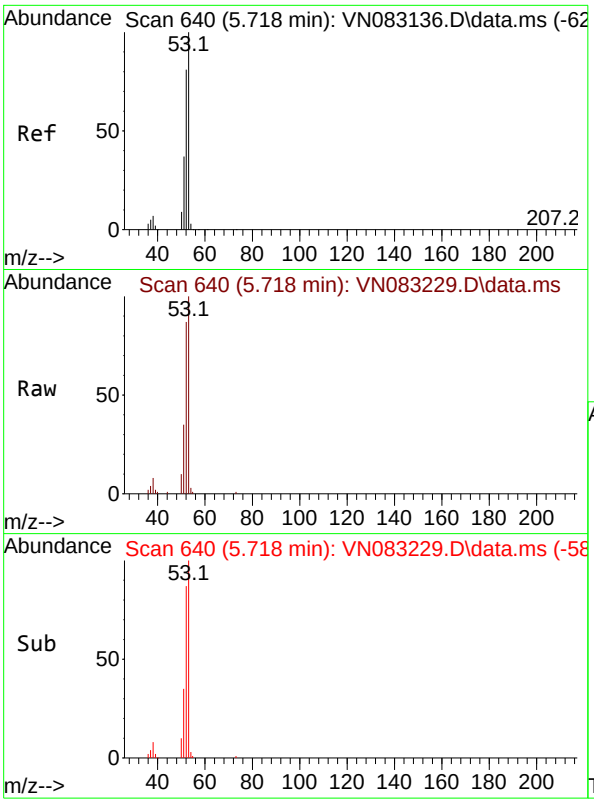


#14
Allyl chloride
Concen: 17.486 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 41 Resp: 68407

Ion	Ratio	Lower	Upper
41	100		
39	74.1	67.8	101.6
76	32.6	25.8	38.8

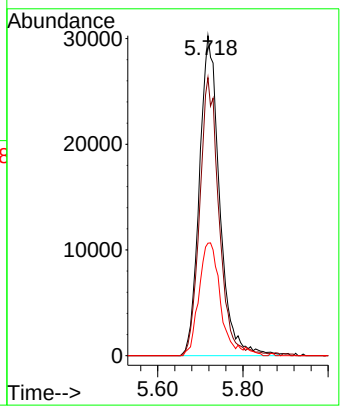




#15
Acrylonitrile
Concen: 87.591 ug/l
RT: 5.718 min Scan# 64
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 53 Resp: 9951

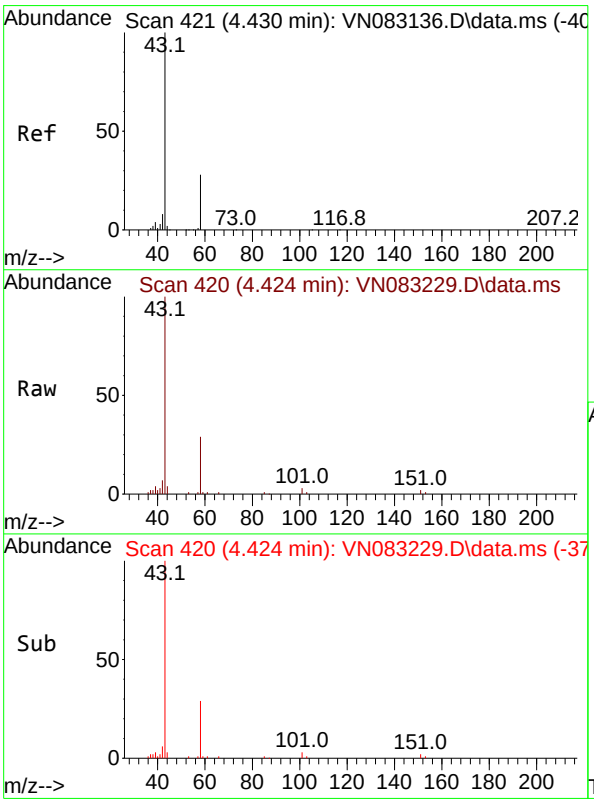
Ion	Ratio	Lower	Upper
53	100		
52	83.4	66.6	100.0
51	37.0	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

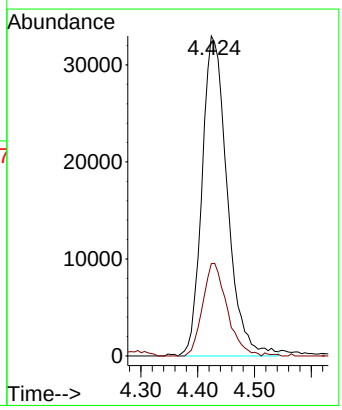
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

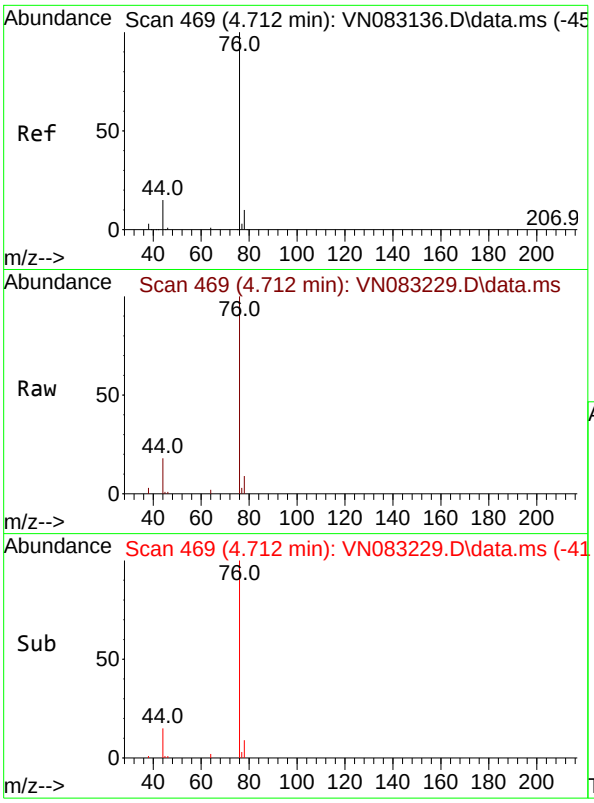


#16
Acetone
Concen: 97.812 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 43 Resp: 101736

Ion	Ratio	Lower	Upper
43	100		
58	28.8	21.8	32.6

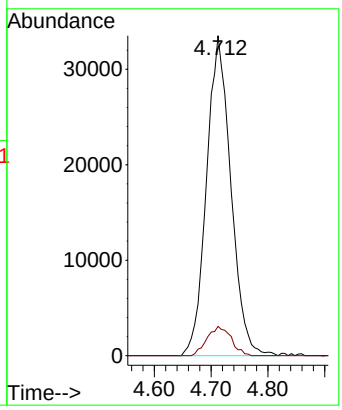




#17
Carbon Disulfide
Concen: 16.462 ug/l
RT: 4.712 min Scan# 4
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 76 Resp: 9971

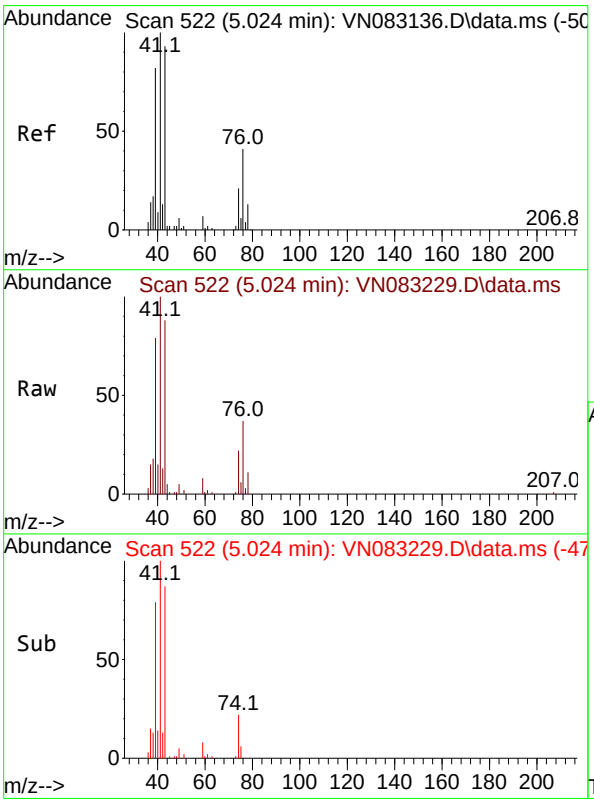
Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

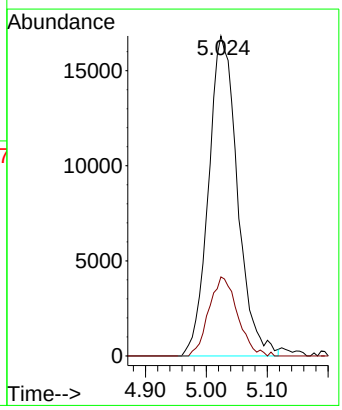
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

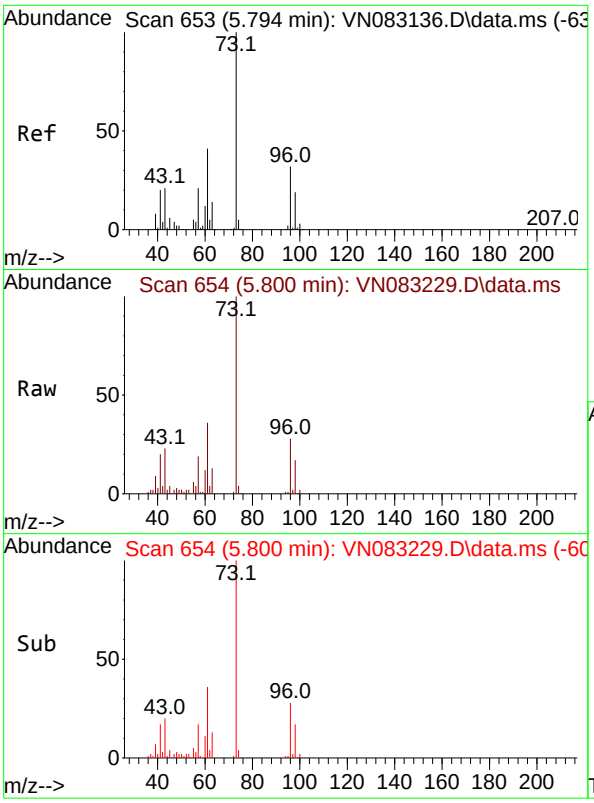


#18
Methyl Acetate
Concen: 17.939 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 43 Resp: 55591

Ion	Ratio	Lower	Upper
43	100		
74	24.4	16.3	24.5

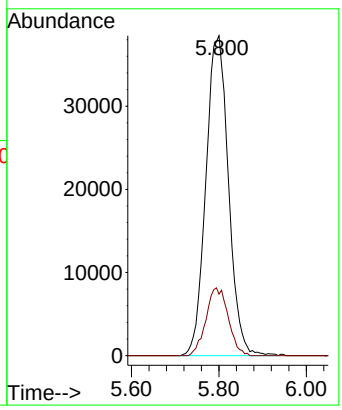




#19
Methyl tert-butyl Ether
Concen: 18.501 ug/l
RT: 5.800 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 73 Resp: 13823

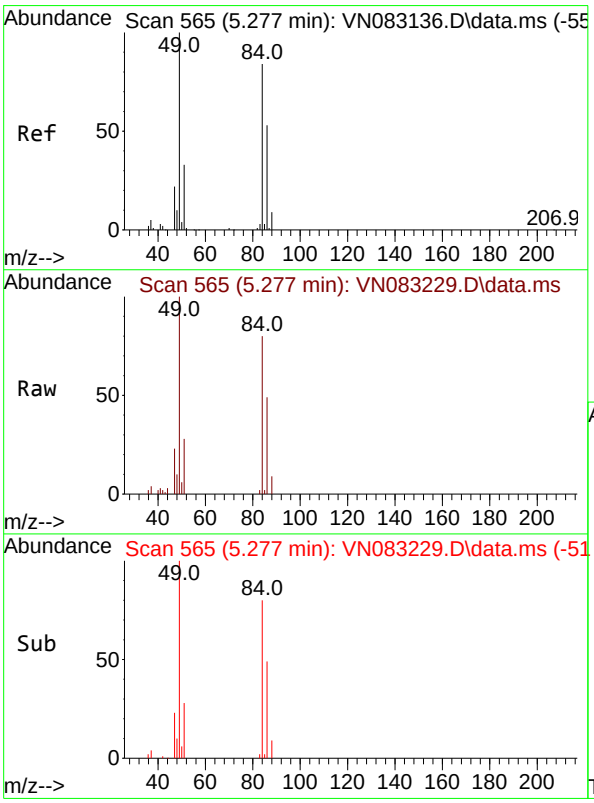
Ion	Ratio	Lower	Upper
73	100		
57	19.3	17.9	26.9



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

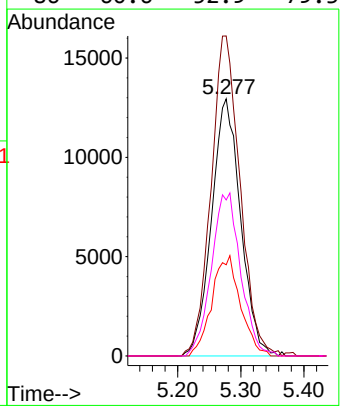
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

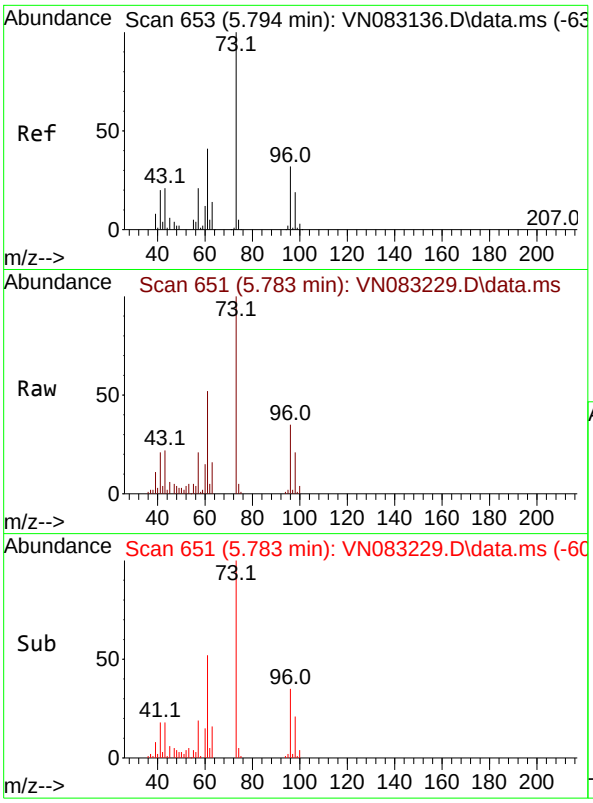


#20
Methylene Chloride
Concen: 17.257 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 84 Resp: 41310

Ion	Ratio	Lower	Upper
84	100		
49	124.5	119.6	179.4
51	35.5	34.8	52.2
86	60.6	52.9	79.3

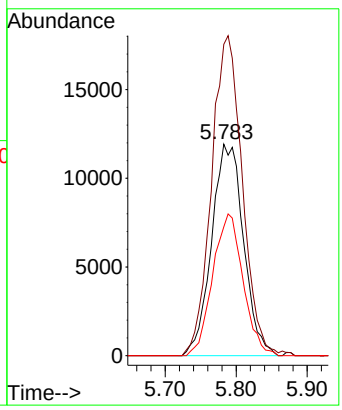




#21
trans-1,2-Dichloroethene
Concen: 17.410 ug/l
RT: 5.783 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 96 Resp: 3725

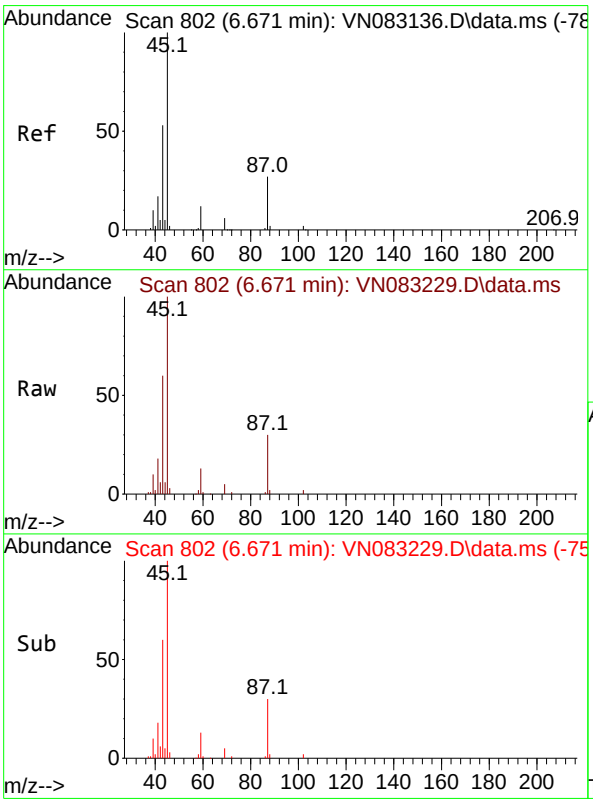
Ion	Ratio	Lower	Upper
96	100		
61	147.2	123.4	185.2
98	60.9	49.3	73.9



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

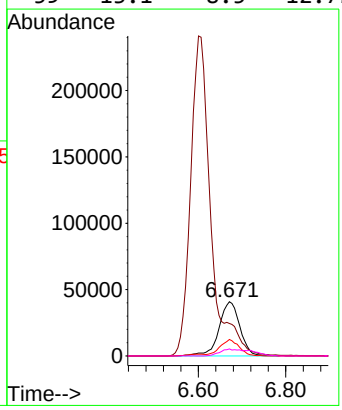
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

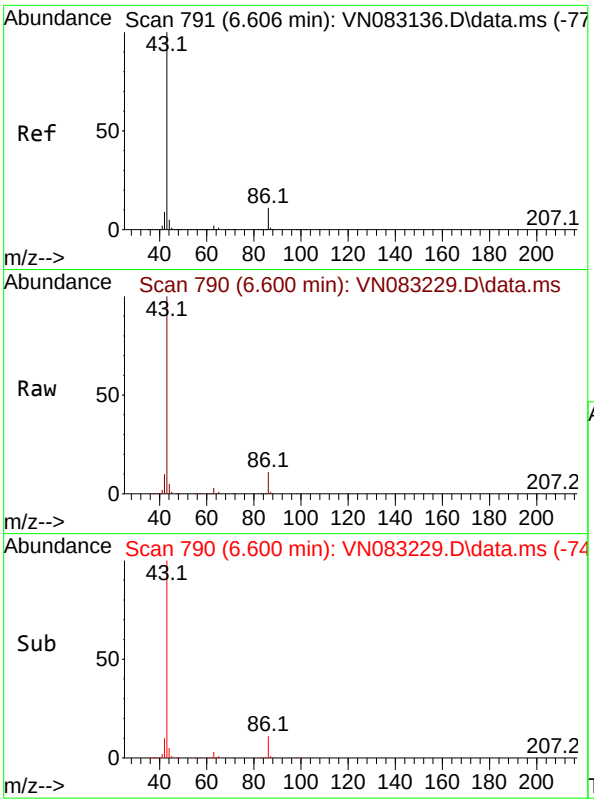


#22
Diisopropyl ether
Concen: 18.391 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 45 Resp: 135241

Ion	Ratio	Lower	Upper
45	100		
43	58.3	44.0	66.0
87	30.4	19.7	29.5#
59	13.1	8.5	12.7#

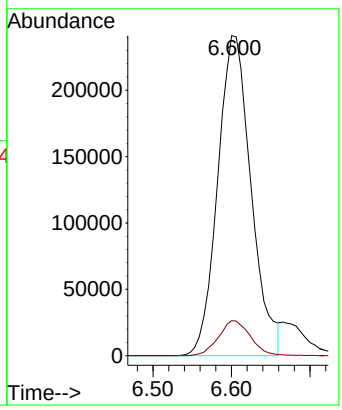




#23
Vinyl Acetate
Concen: 94.533 ug/l m
RT: 6.600 min Scan# 7
Delta R.T. -0.006 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 43 Resp: 71251

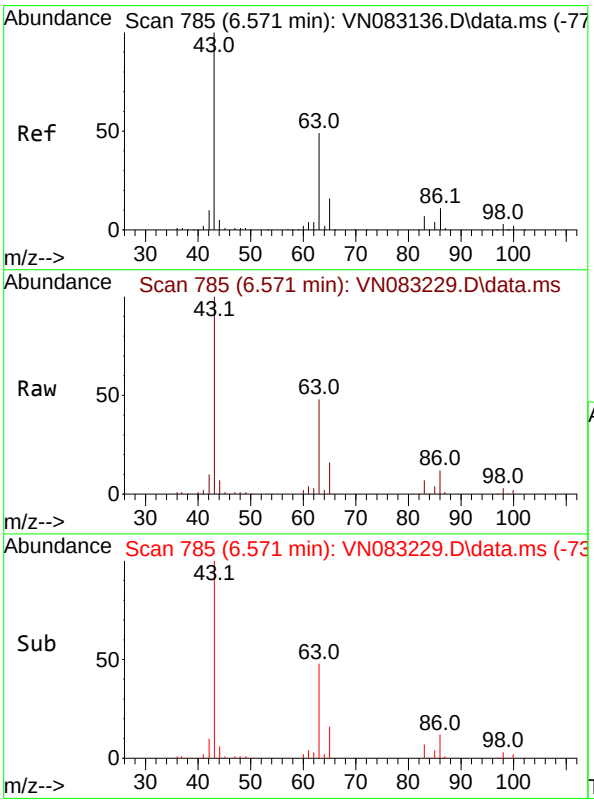
Ion	Ratio	Lower	Upper
43	100		
86	10.9	7.3	10.9#



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

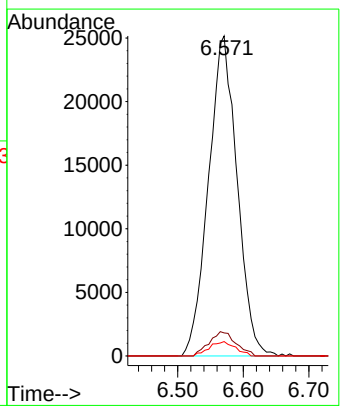
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

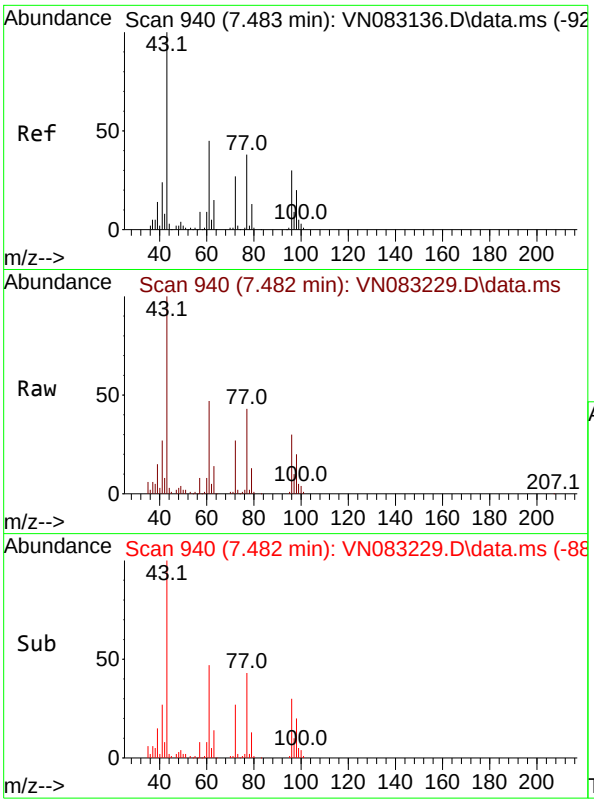


#24
1,1-Dichloroethane
Concen: 19.035 ug/l
RT: 6.571 min Scan# 785
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 63 Resp: 76297

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.3	9.9
100	4.5	2.0	6.0





#25
2-Butanone
Concen: 91.673 ug/l
RT: 7.482 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

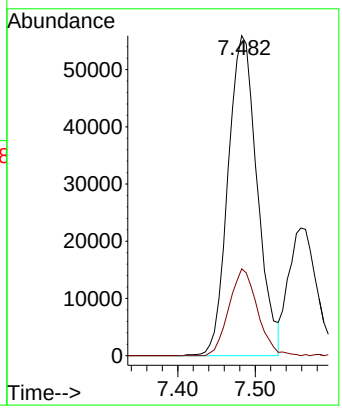
Tgt Ion: 43 Resp: 14640

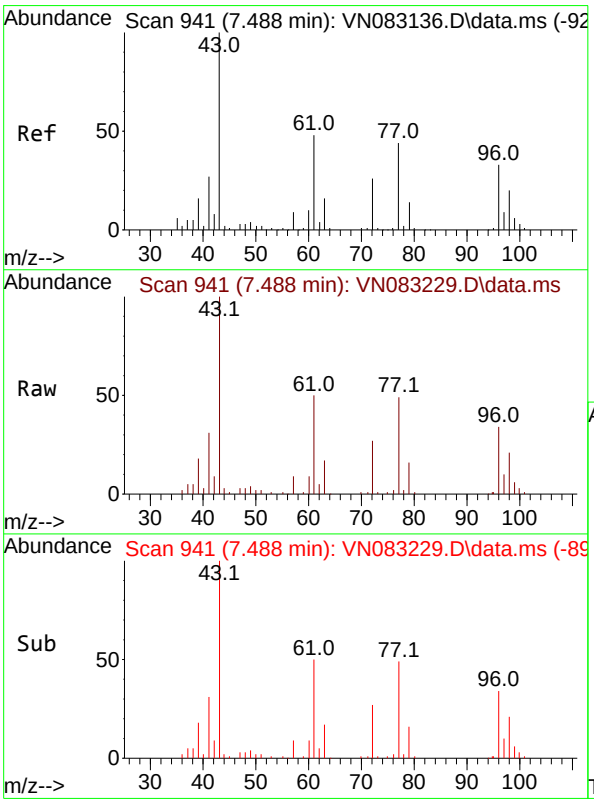
Ion	Ratio	Lower	Upper
43	100		
72	27.1	18.2	27.2

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

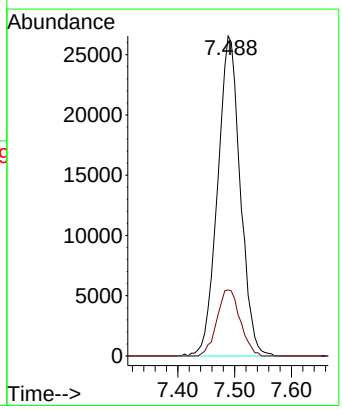


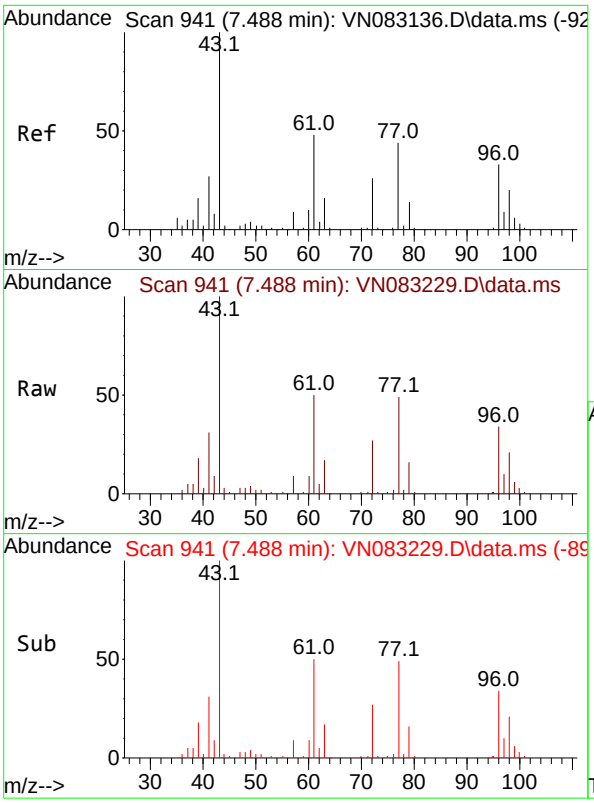


#26
2,2-Dichloropropane
Concen: 19.767 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 77 Resp: 73580

Ion	Ratio	Lower	Upper
77	100		
97	21.2	10.3	30.9

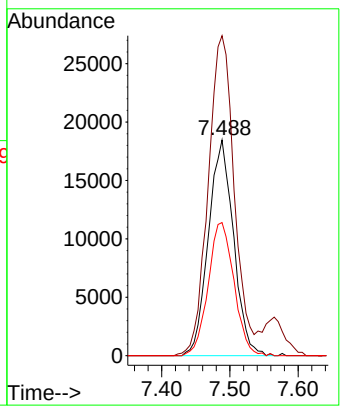




#27
cis-1,2-Dichloroethene
Concen: 18.366 ug/l
RT: 7.488 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 96 Resp: 4741

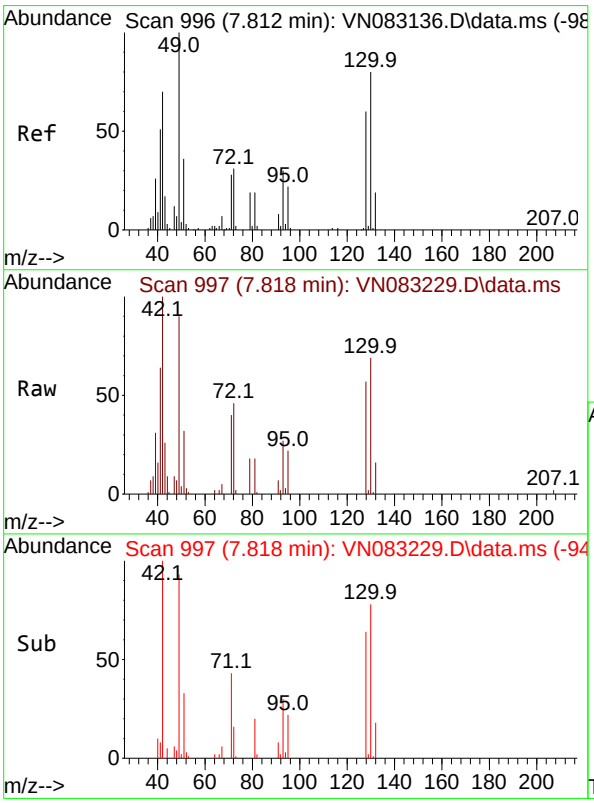
Ion	Ratio	Lower	Upper
96	100		
61	153.4	0.0	329.6
98	63.4	0.0	128.6



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

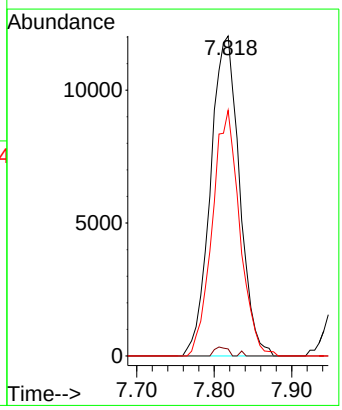
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

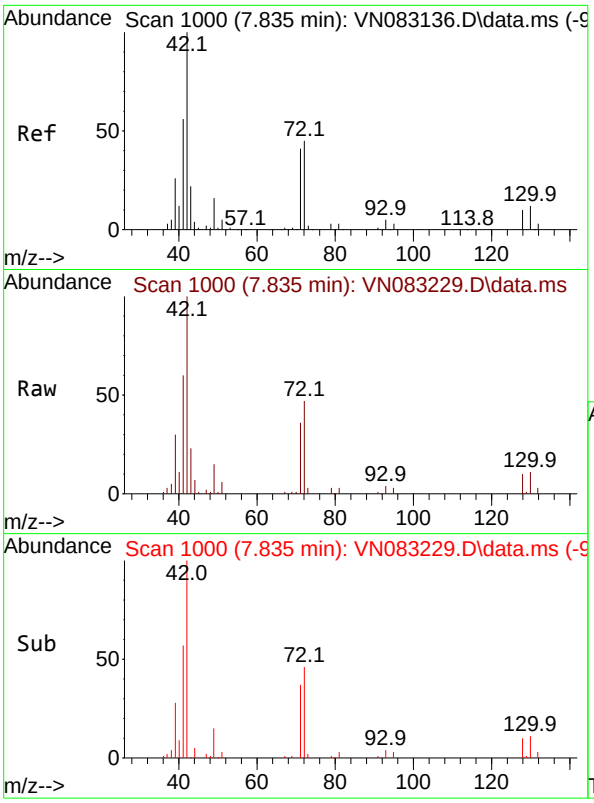


#28
Bromochloromethane
Concen: 19.093 ug/l
RT: 7.818 min Scan# 997
Delta R.T. 0.006 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 49 Resp: 31274

Ion	Ratio	Lower	Upper
49	100		
129	1.3	0.0	3.8
130	72.7	50.5	75.7

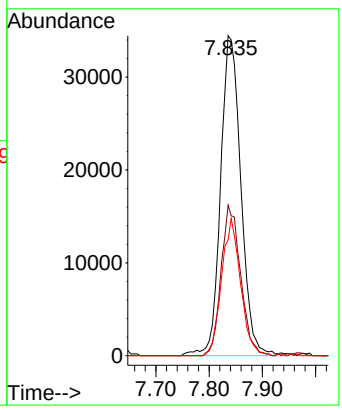




#29
Tetrahydrofuran
Concen: 88.475 ug/l
RT: 7.835 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 42 Resp: 9134

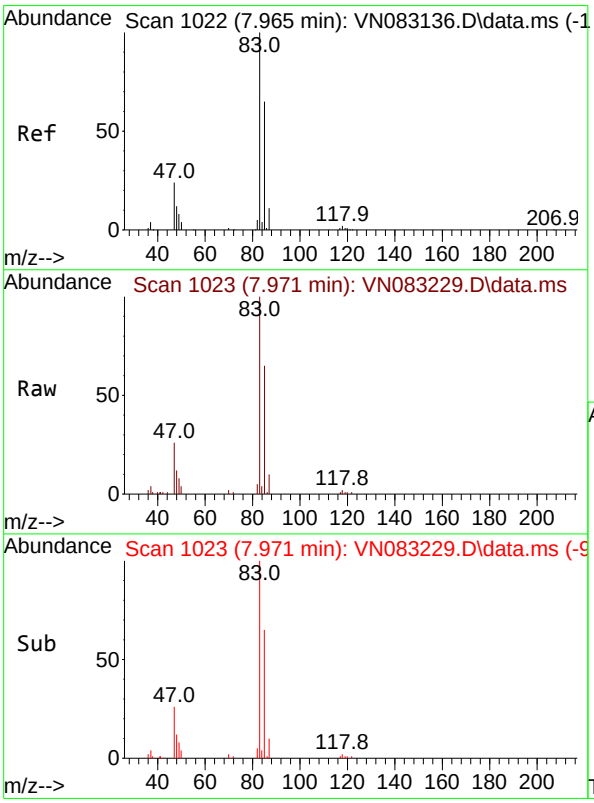
Ion	Ratio	Lower	Upper
42	100		
72	45.0	30.0	45.0
71	40.0	28.3	42.5



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

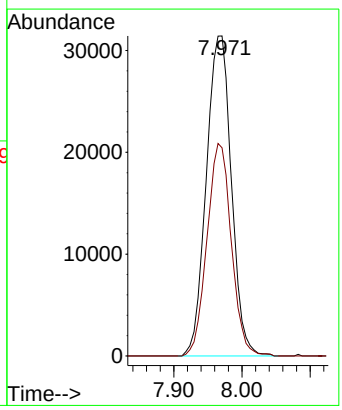
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

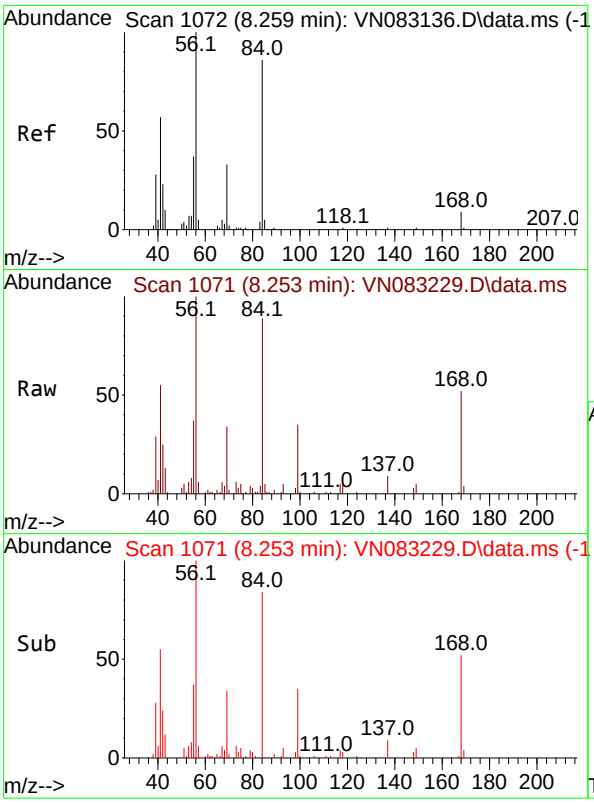


#30
Chloroform
Concen: 19.328 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. 0.006 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 83 Resp: 80486

Ion	Ratio	Lower	Upper
83	100		
85	65.0	50.9	76.3

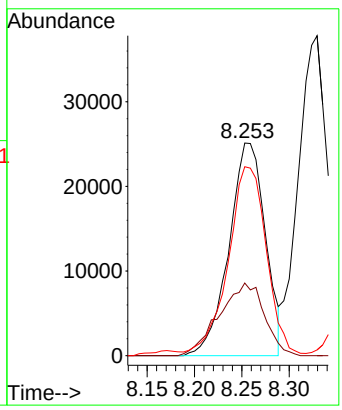




#31
Cyclohexane
Concen: 17.051 ug/l
RT: 8.253 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 56 Resp: 6716

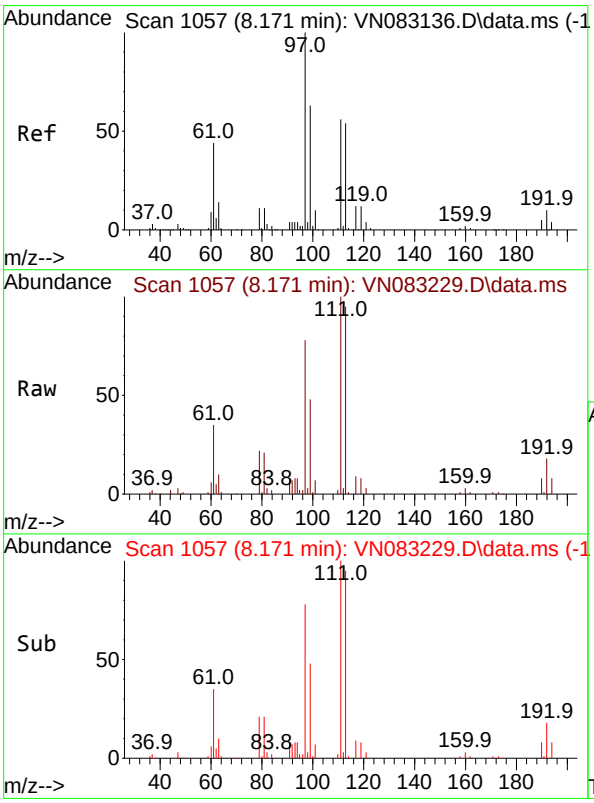
Ion	Ratio	Lower	Upper
56	100		
69	34.1	24.5	36.7
84	87.1	66.0	99.0



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

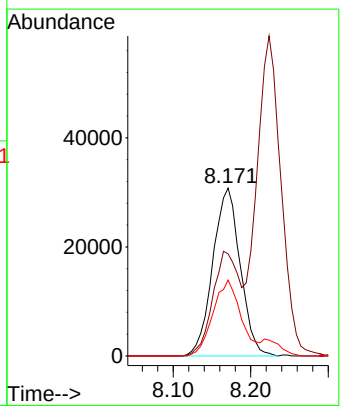
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

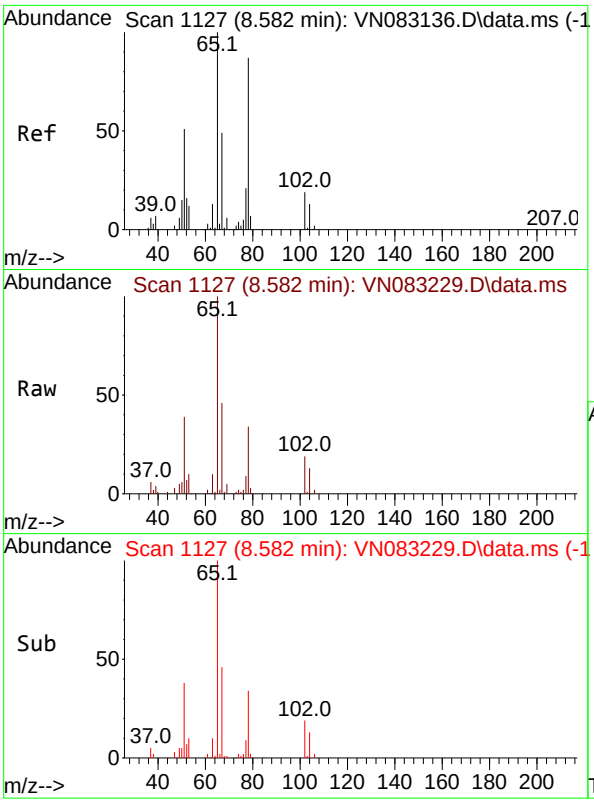


#32
1,1,1-Trichloroethane
Concen: 19.206 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 97 Resp: 75701

Ion	Ratio	Lower	Upper
97	100		
99	59.4	52.0	78.0
61	46.8	42.1	63.1

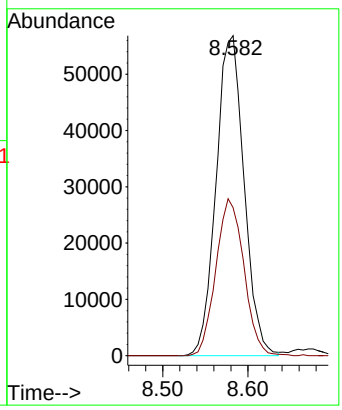




#33
1,2-Dichloroethane-d4
Concen: 48.752 ug/l
RT: 8.582 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 65 Resp: 12958

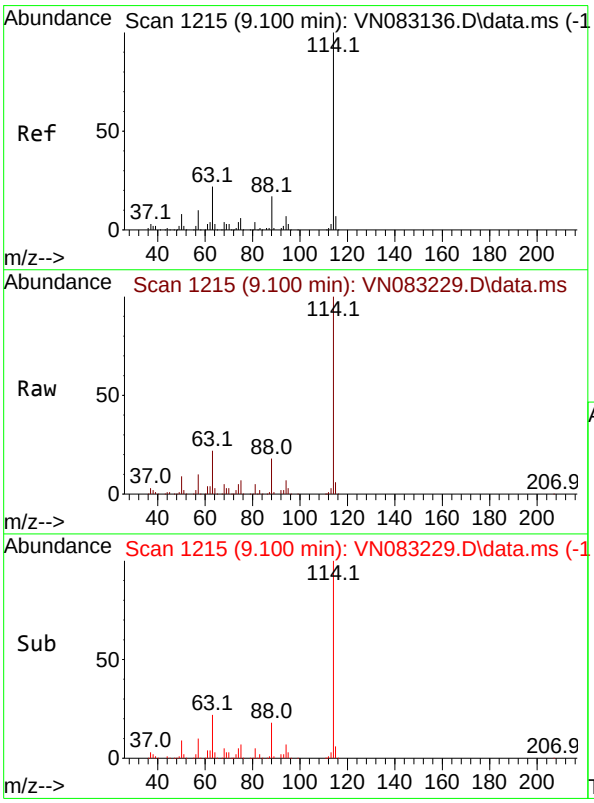
Ion	Ratio	Lower	Upper
65	100		
67	49.1	0.0	104.4



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

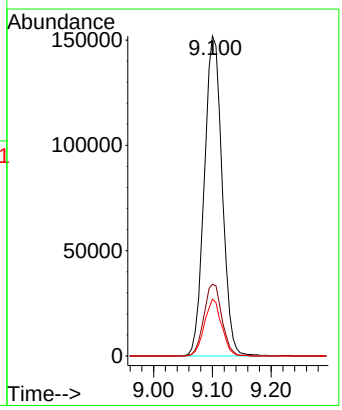
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

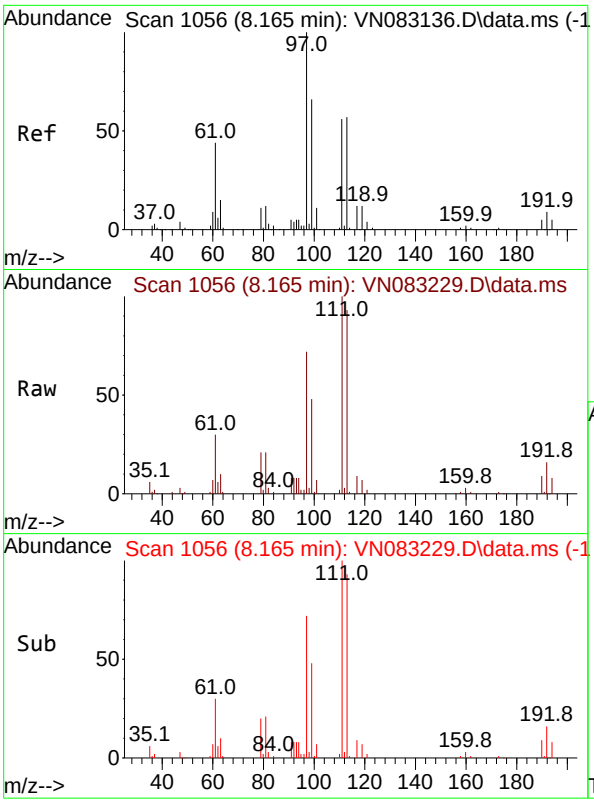


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion:114 Resp: 319813

Ion	Ratio	Lower	Upper
114	100		
63	22.4	0.0	44.6
88	17.7	0.0	31.4

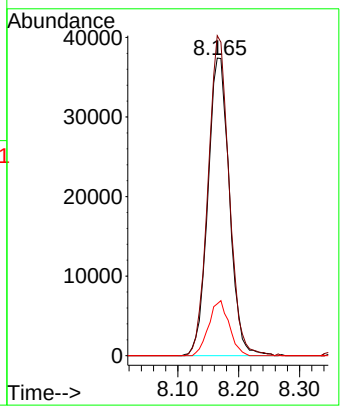




#35
Dibromofluoromethane
Concen: 45.954 ug/l
RT: 8.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion:113 Resp: 9173

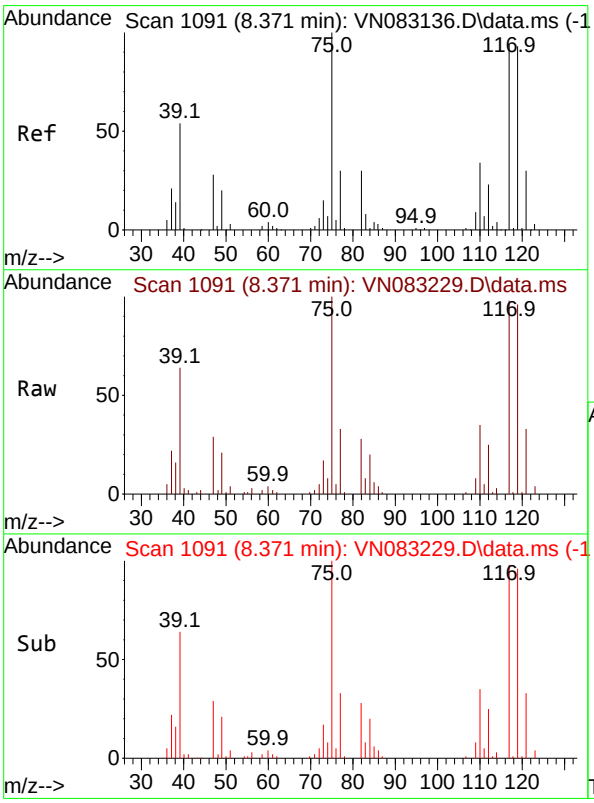
Ion	Ratio	Lower	Upper
113	100		
111	105.3	82.4	123.6
192	17.6	14.9	22.3



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

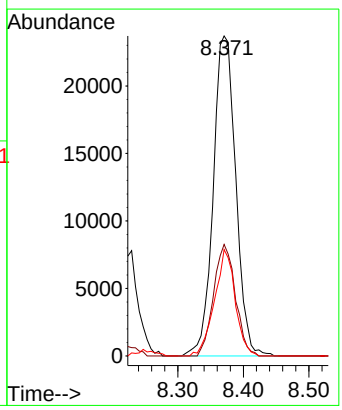
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

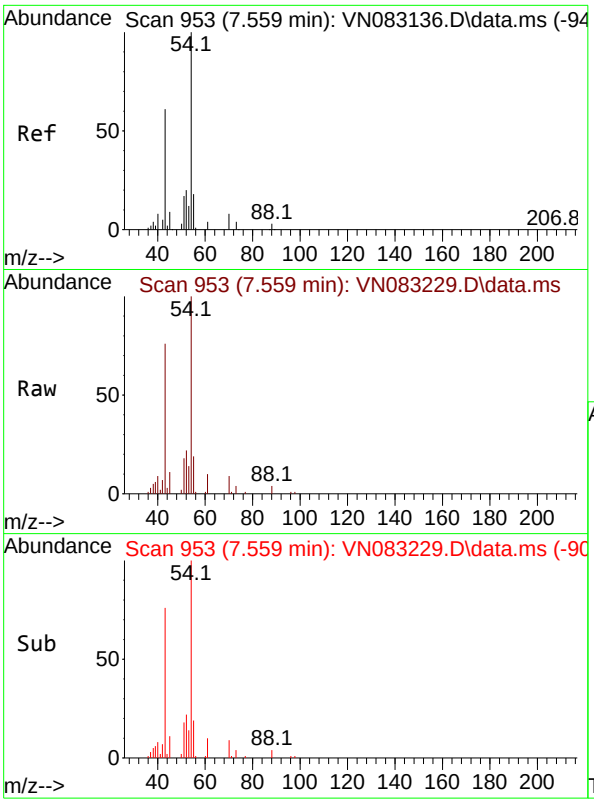


#36
1,1-Dichloropropene
Concen: 18.733 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 75 Resp: 56568

Ion	Ratio	Lower	Upper
75	100		
110	33.6	16.3	48.9
77	30.5	24.6	37.0

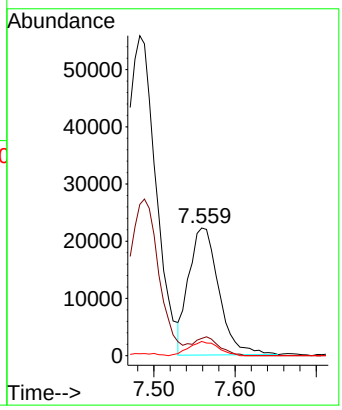




#37
Ethyl Acetate
Concen: 16.960 ug/l
RT: 7.559 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 43 Resp: 5734

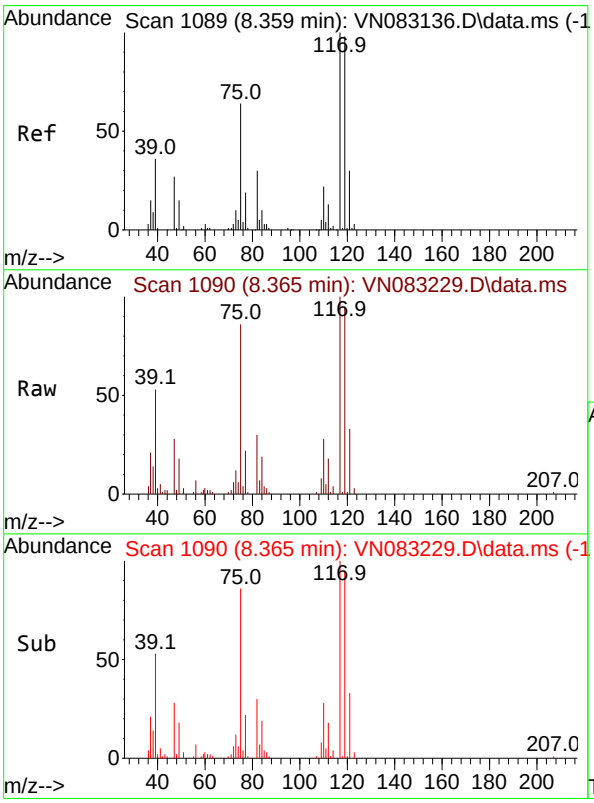
Ion	Ratio	Lower	Upper
43	100		
61	10.9	9.3	13.9
70	10.8	7.0	10.6



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

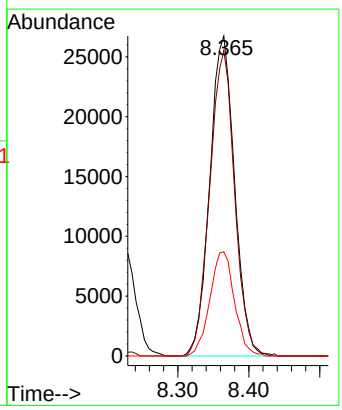
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

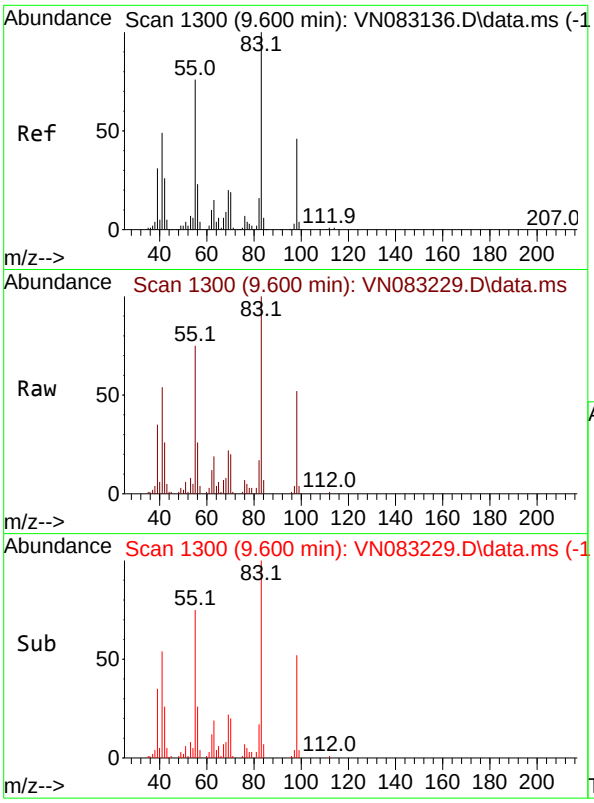


#38
Carbon Tetrachloride
Concen: 19.042 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.006 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion:117 Resp: 64763

Ion	Ratio	Lower	Upper
117	100		
119	95.4	74.9	112.3
121	32.6	24.3	36.5

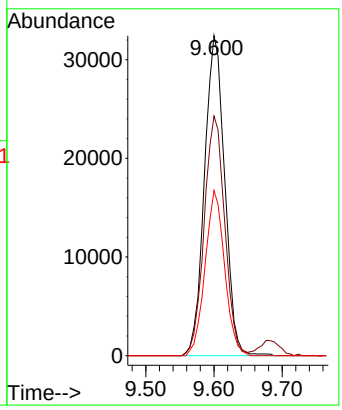




#39
Methylcyclohexane
Concen: 18.078 ug/l
RT: 9.600 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 83 Resp: 6705

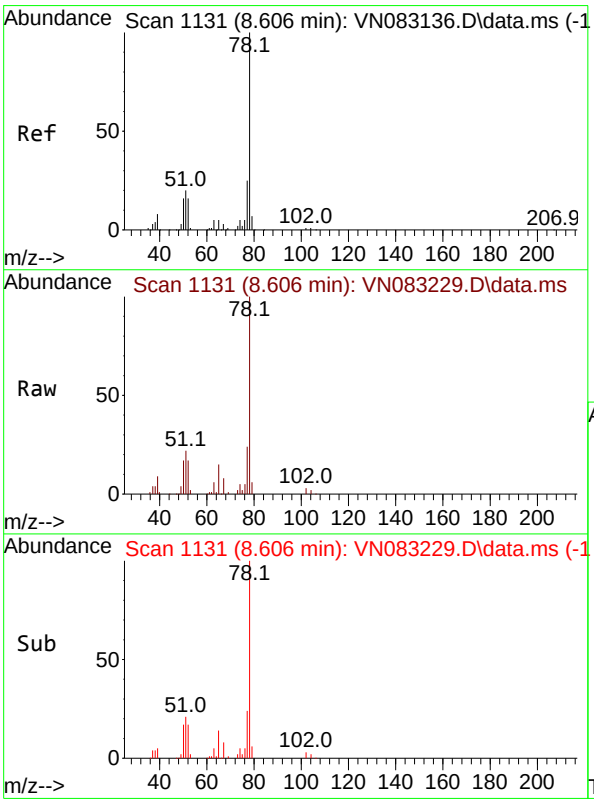
Ion	Ratio	Lower	Upper
83	100		
55	74.9	66.4	99.6
98	51.6	40.7	61.1



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

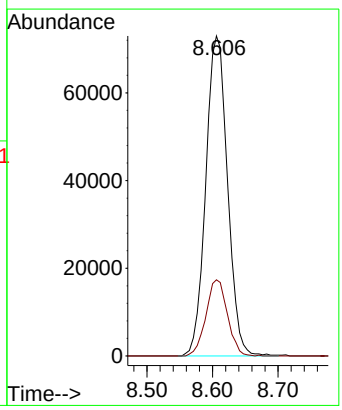
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

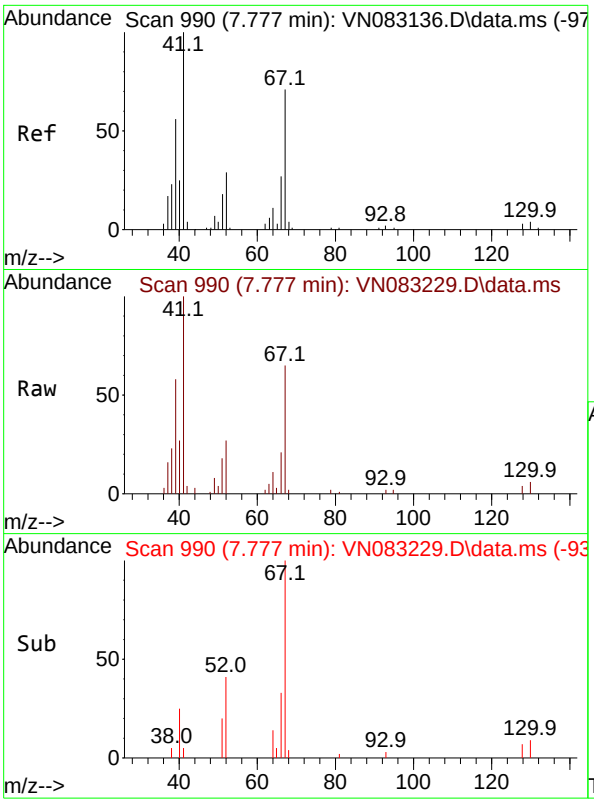


#40
Benzene
Concen: 18.707 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 78 Resp: 168282

Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.4

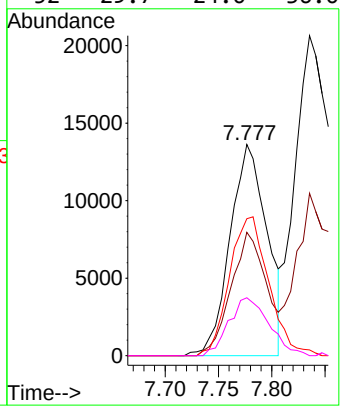




#41
Methacrylonitrile
Concen: 17.115 ug/l
RT: 7.777 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 41 Resp: 3290

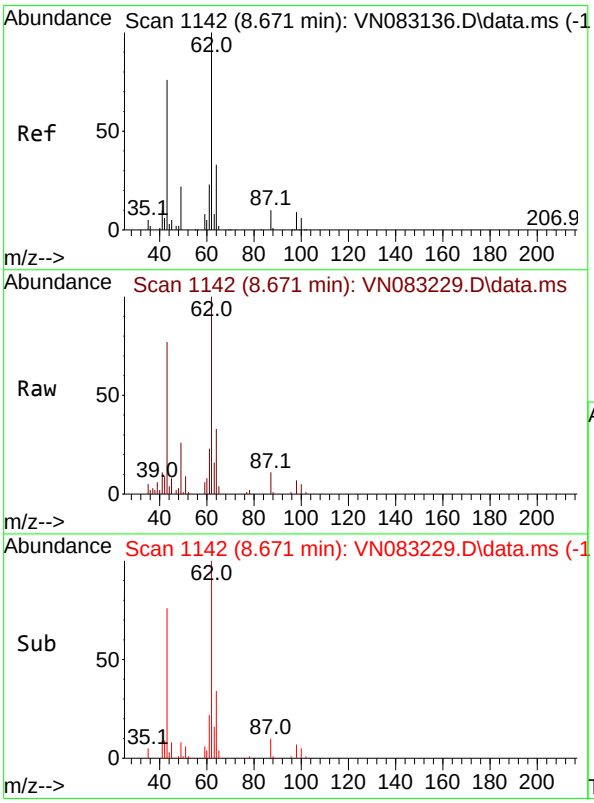
Ion	Ratio	Lower	Upper
41	100		
39	55.8	45.5	68.3
67	69.5	50.5	75.7
52	29.7	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

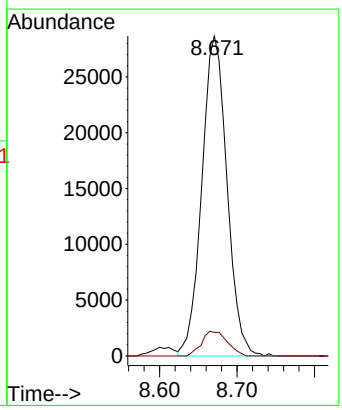
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

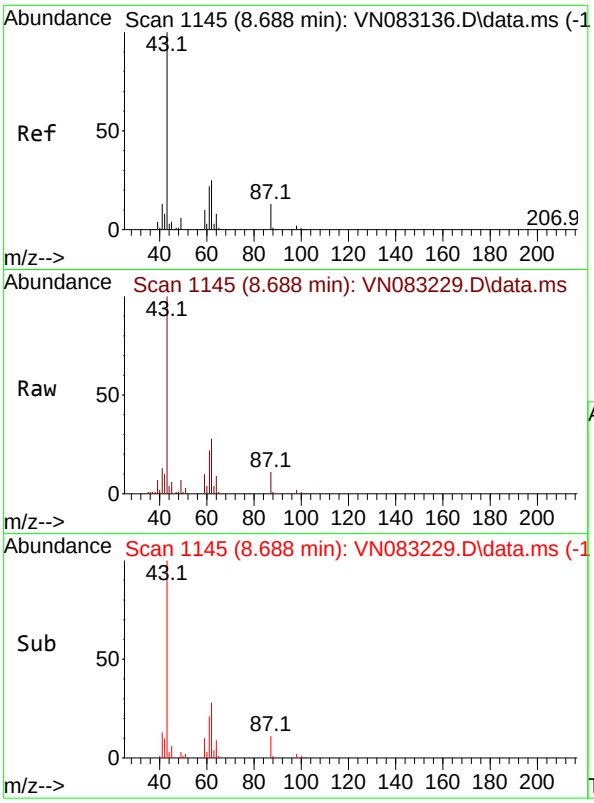


#42
1,2-Dichloroethane
Concen: 19.711 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 62 Resp: 64593

Ion	Ratio	Lower	Upper
62	100		
98	7.9	0.0	15.8

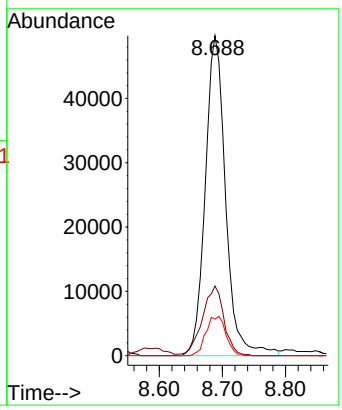




#43
Isopropyl Acetate
Concen: 17.579 ug/l
RT: 8.688 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 43 Resp: 11152

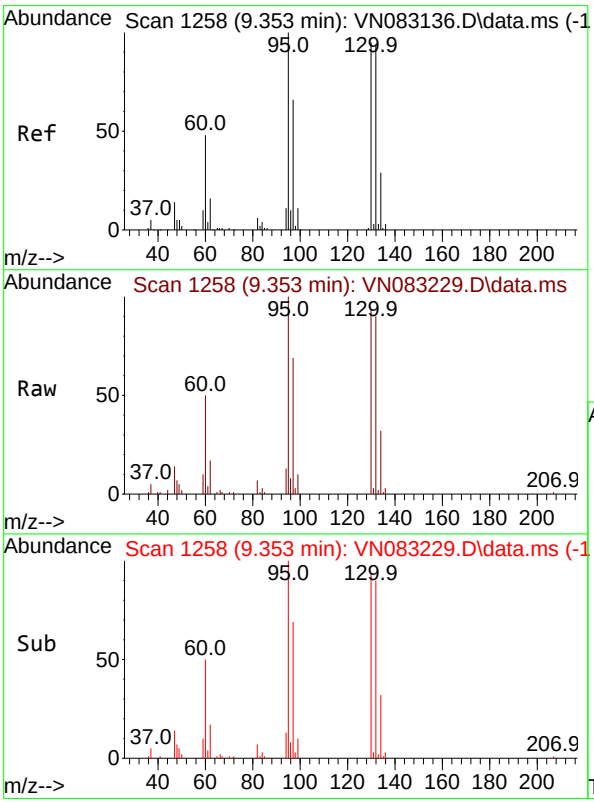
Ion	Ratio	Lower	Upper
43	100		
61	23.0	17.8	26.6
87	12.1	8.2	12.2



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

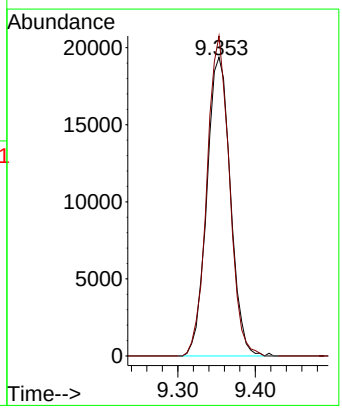
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

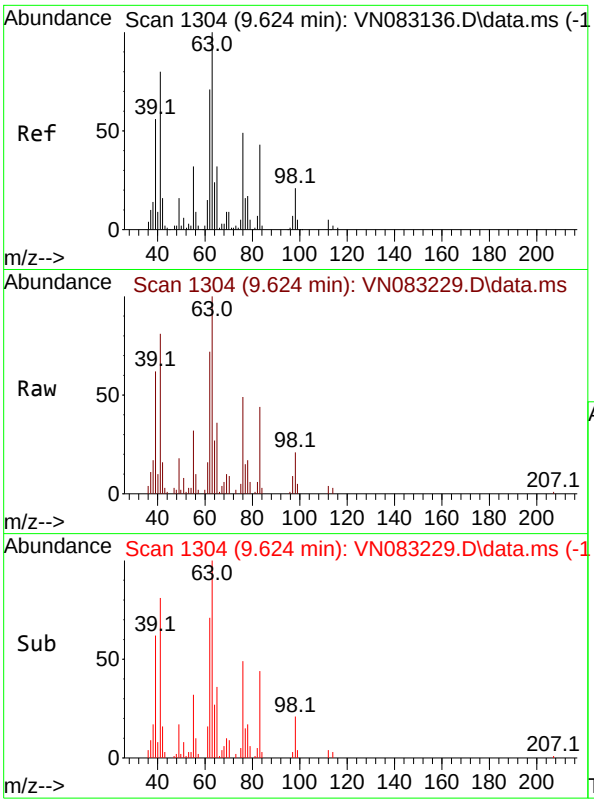


#44
Trichloroethene
Concen: 19.161 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion:130 Resp: 41028

Ion	Ratio	Lower	Upper
130	100		
95	107.1	0.0	197.8

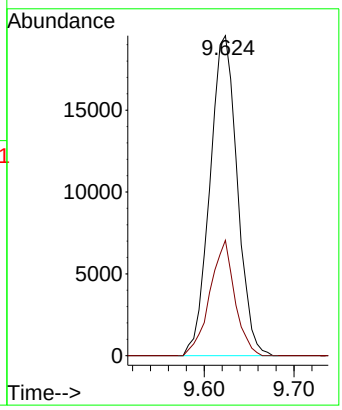




#45
1,2-Dichloropropane
Concen: 19.385 ug/l
RT: 9.624 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 63 Resp: 4139

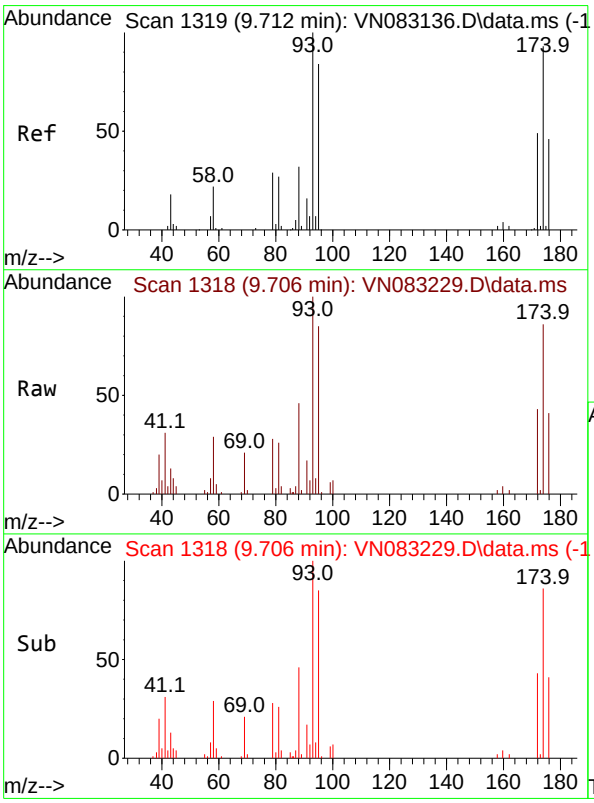
Ion	Ratio	Lower	Upper
63	100		
65	36.1	24.4	36.6



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

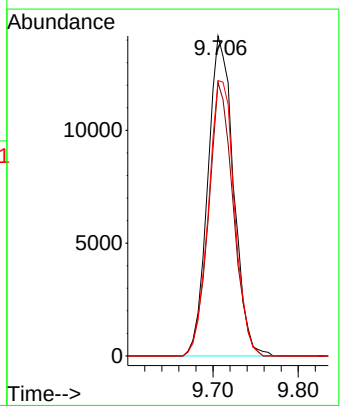
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

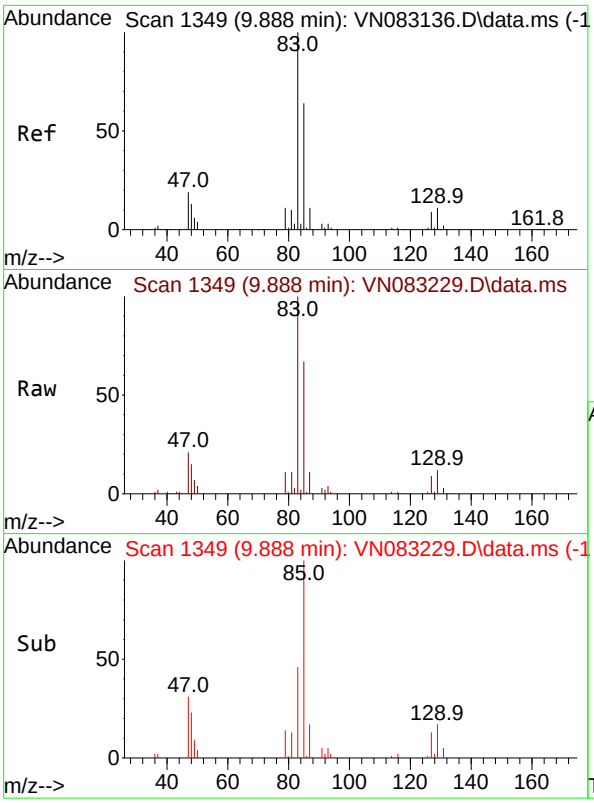


#46
Dibromomethane
Concen: 19.387 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.006 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 93 Resp: 29632

Ion	Ratio	Lower	Upper
93	100		
95	82.0	65.8	98.6
174	87.3	71.7	107.5

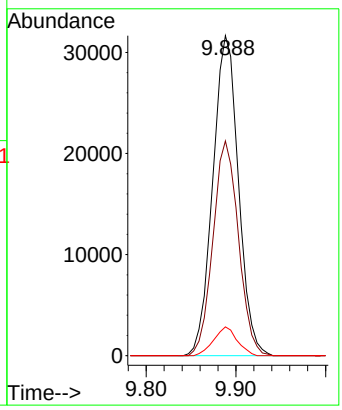




#47
Bromodichloromethane
Concen: 18.300 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 83 Resp: 6280

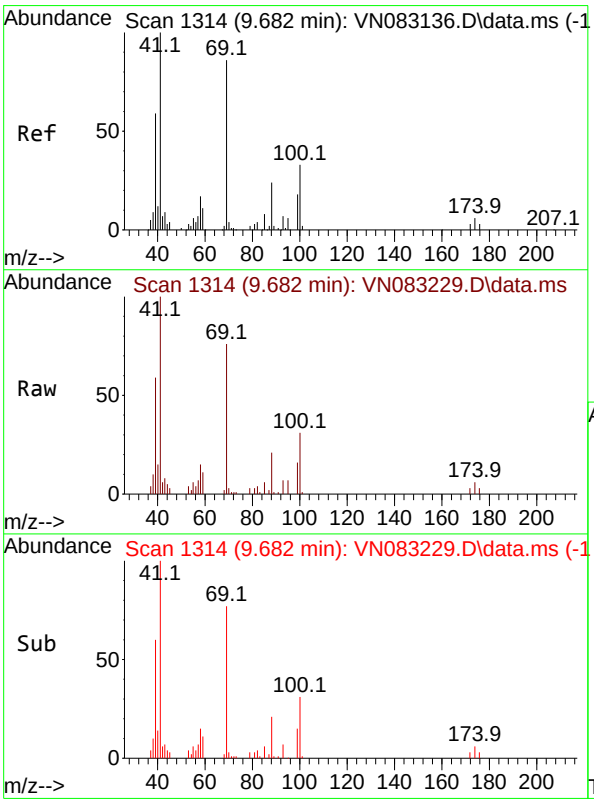
Ion	Ratio	Lower	Upper
83	100		
85	67.1	51.1	76.7
127	9.0	7.2	10.8



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

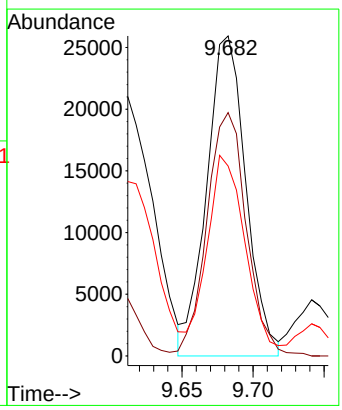
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

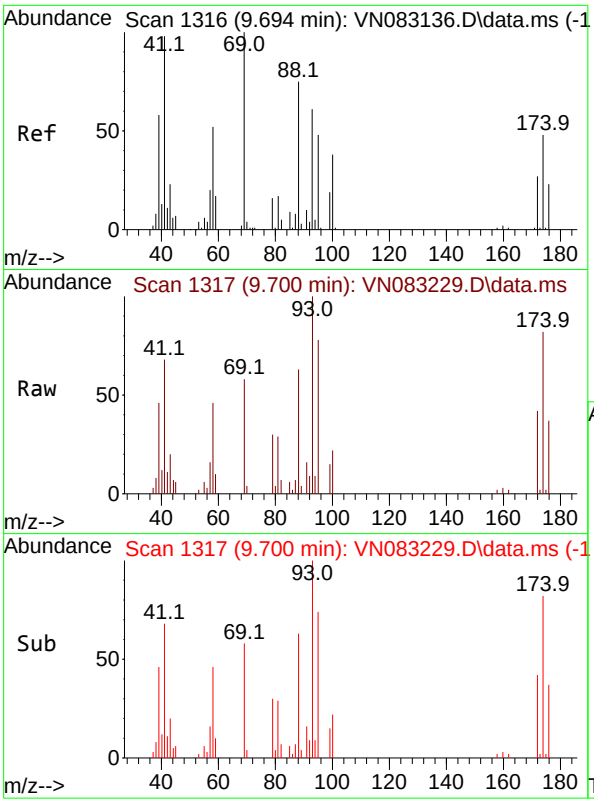


#48
Methyl methacrylate
Concen: 17.790 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 41 Resp: 49729

Ion	Ratio	Lower	Upper
41	100		
69	77.1	56.3	84.5
39	61.0	50.3	75.5

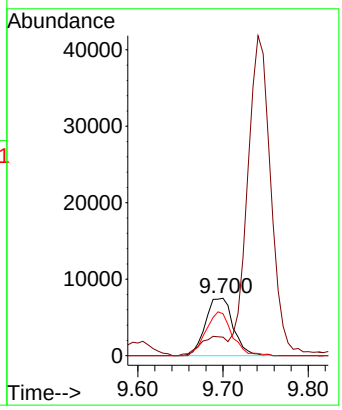




#49
1,4-Dioxane
Concen: 336.746 ug/l
RT: 9.700 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 88 Resp: 1698

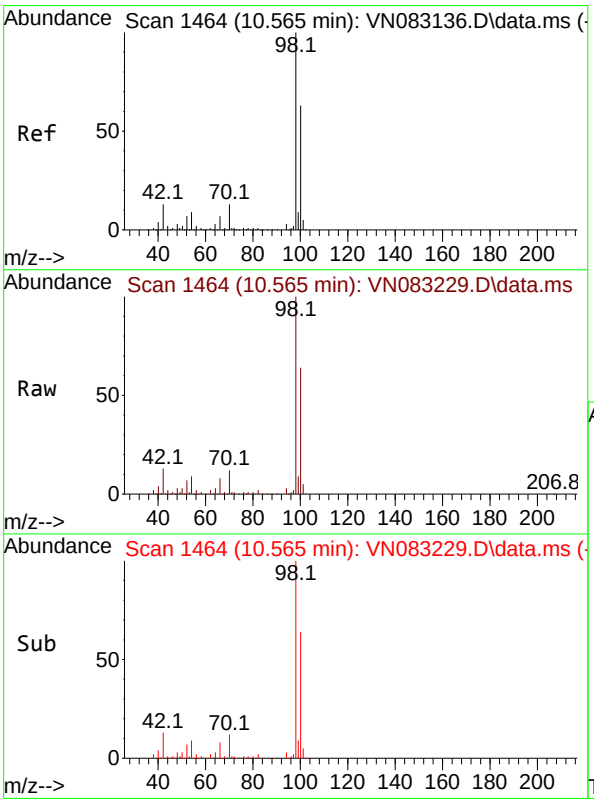
Ion	Ratio	Lower	Upper
88	100		
43	32.5	27.8	41.8
58	71.9	59.4	89.0



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

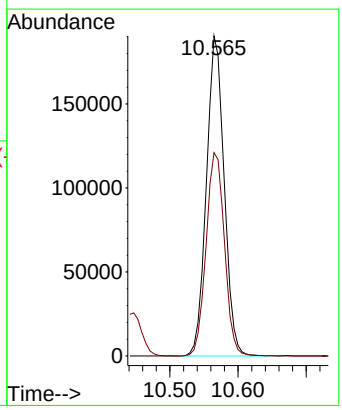
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

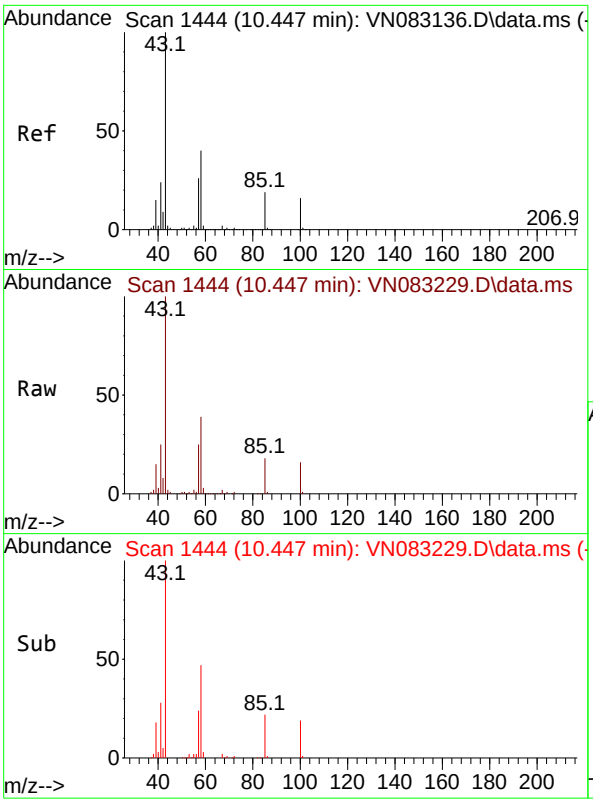


#50
Toluene-d8
Concen: 46.374 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 98 Resp: 345314

Ion	Ratio	Lower	Upper
98	100		
100	65.8	51.5	77.3

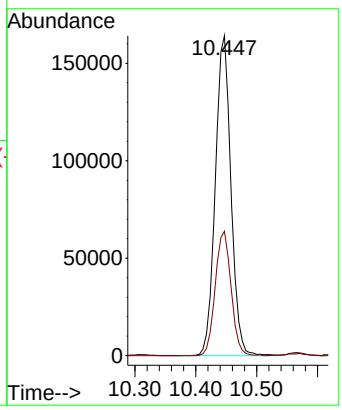




#51
4-Methyl-2-Pentanone
Concen: 91.498 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 43 Resp: 29254

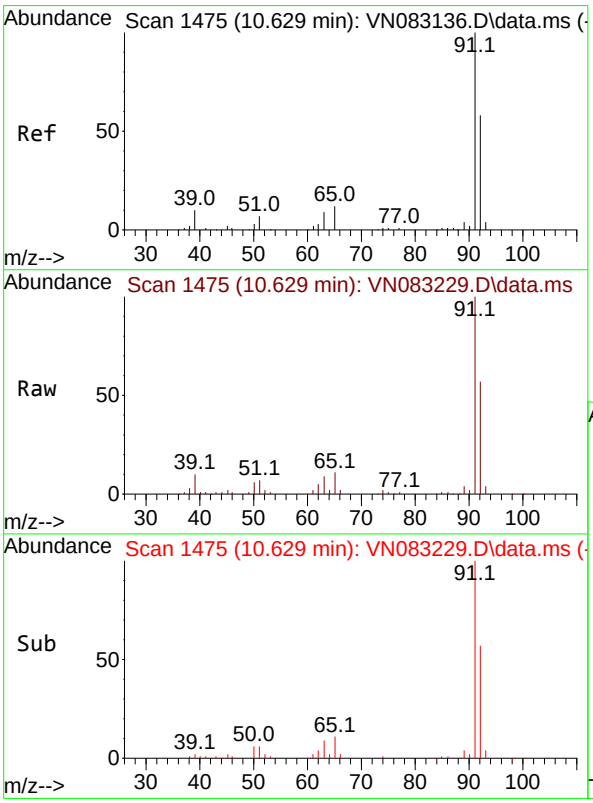
Ion	Ratio	Lower	Upper
43	100		
58	39.5	28.2	42.4



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

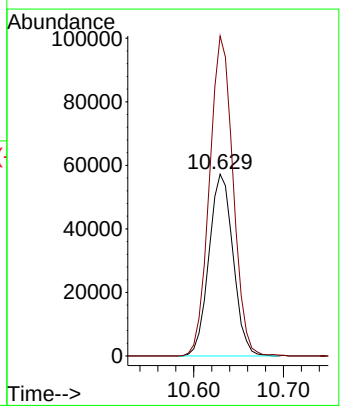
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

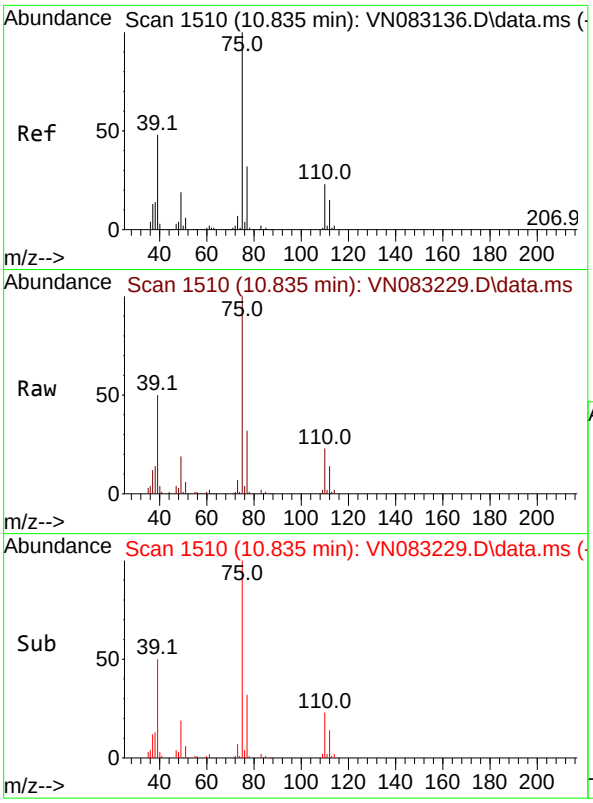


#52
Toluene
Concen: 18.783 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 92 Resp: 106758

Ion	Ratio	Lower	Upper
92	100		
91	172.5	139.4	209.0

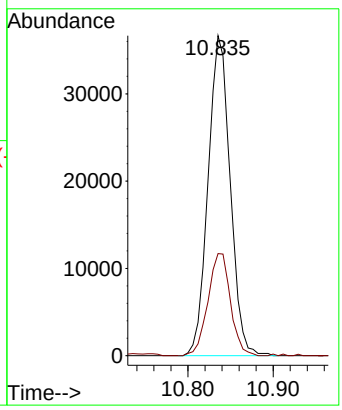




#53
t-1,3-Dichloropropene
Concen: 18.732 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 75 Resp: 6603

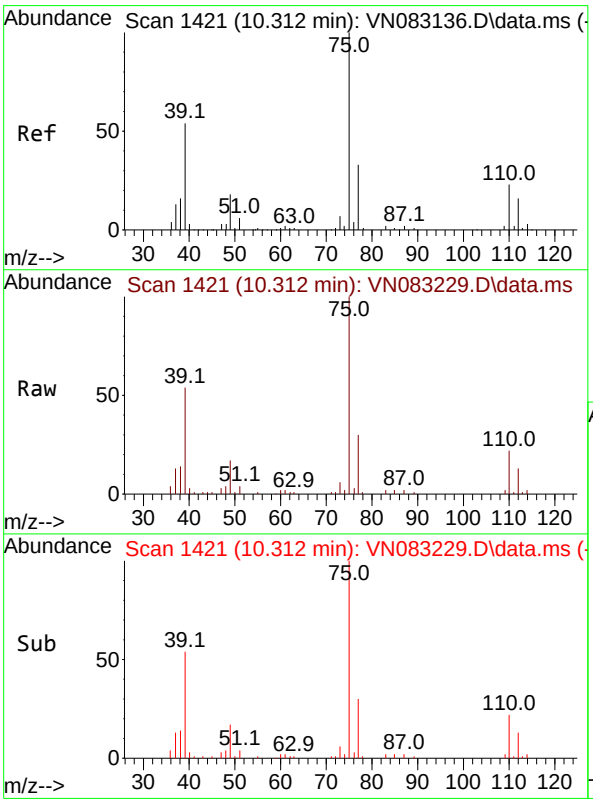
Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

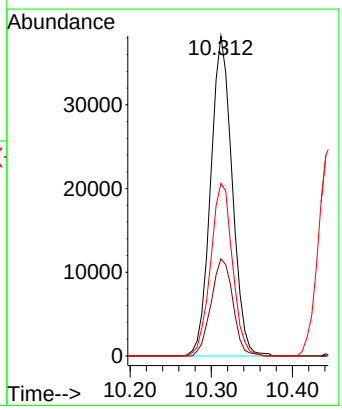
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

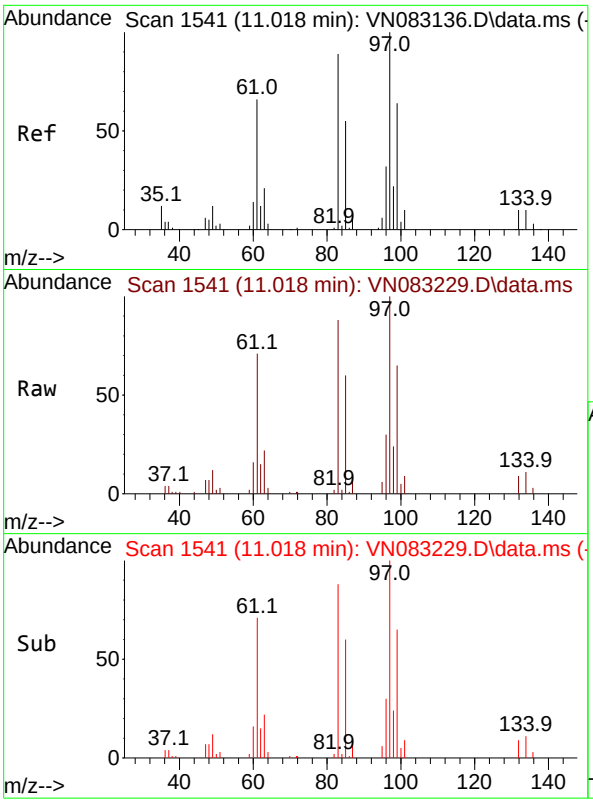


#54
cis-1,3-Dichloropropene
Concen: 18.781 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 75 Resp: 70422

Ion	Ratio	Lower	Upper
75	100		
77	30.4	24.3	36.5
39	53.9	50.5	75.7

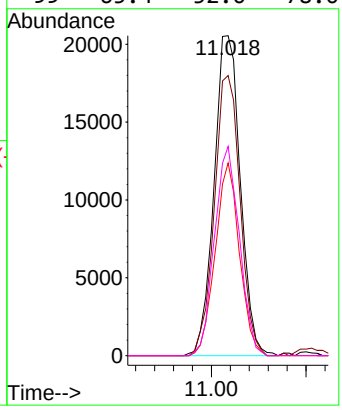




#55
1,1,2-Trichloroethane
Concen: 19.437 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 97 Resp: 3959

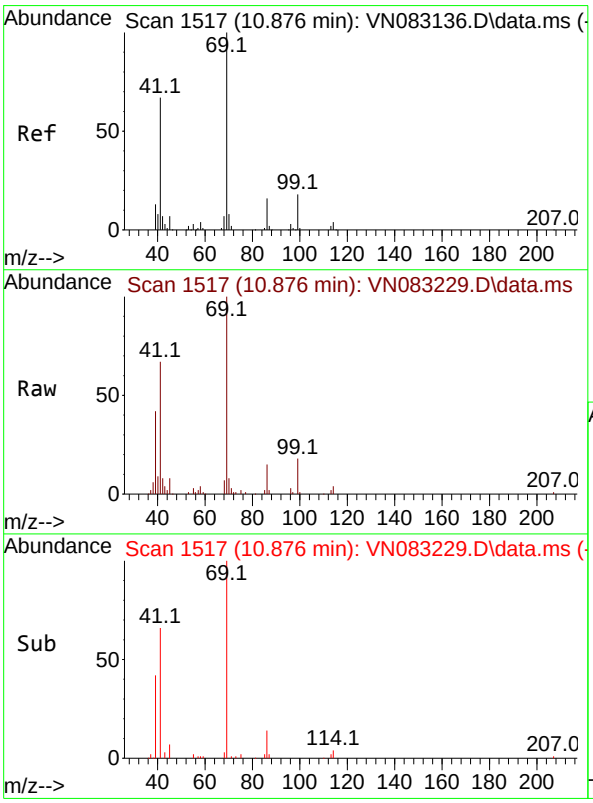
Ion	Ratio	Lower	Upper
97	100		
83	87.5	71.4	107.0
85	60.2	45.8	68.6
99	65.4	52.0	78.0



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

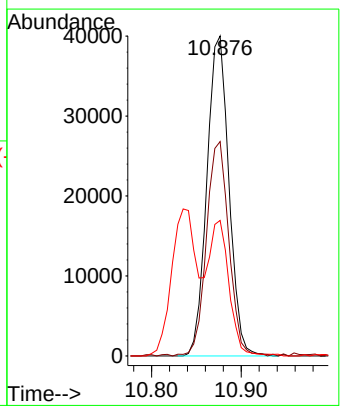
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

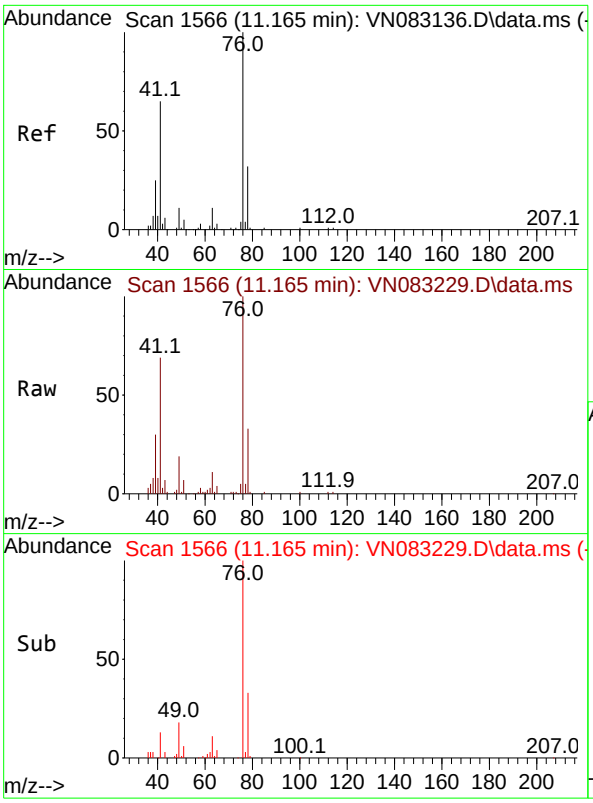


#56
Ethyl methacrylate
Concen: 17.773 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 69 Resp: 68248

Ion	Ratio	Lower	Upper
69	100		
41	68.3	63.4	95.2
39	37.5	37.4	56.0

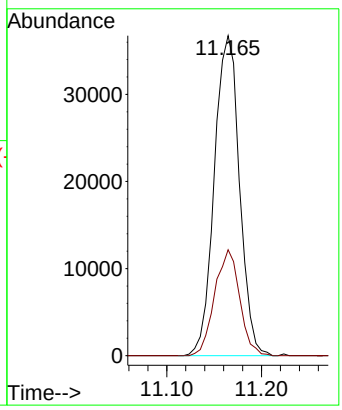




#57
1,3-Dichloropropane
Concen: 18.689 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 76 Resp: 6785

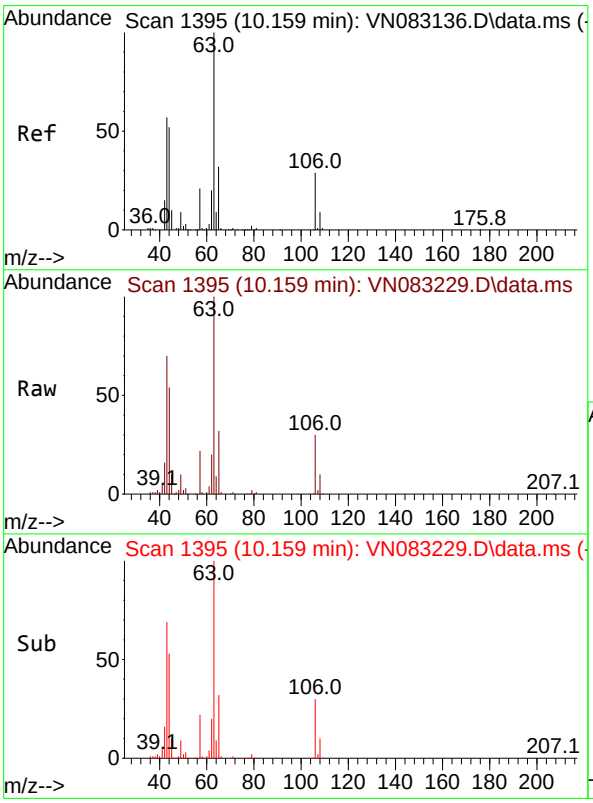
Ion	Ratio	Lower	Upper
76	100		
78	32.9	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

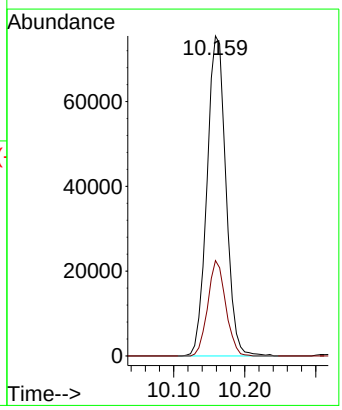
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

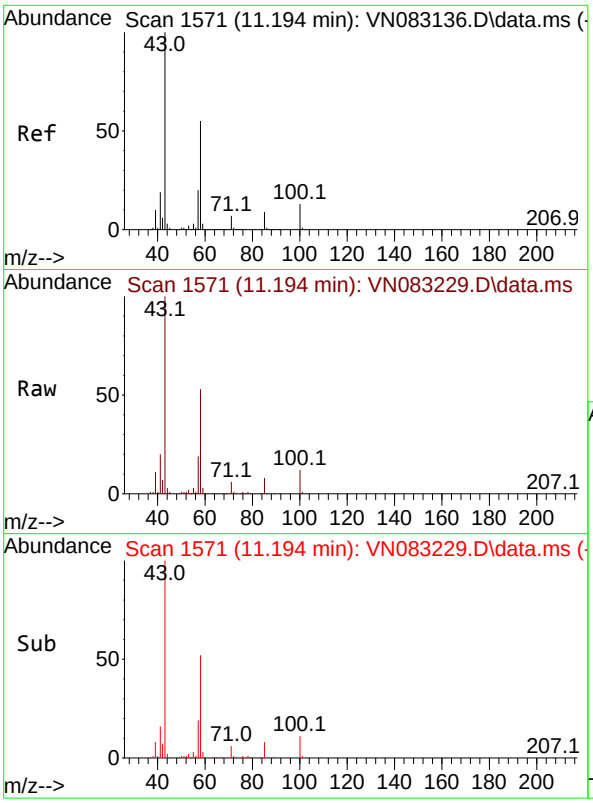


#58
2-Chloroethyl Vinyl ether
Concen: 85.993 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 63 Resp: 139581

Ion	Ratio	Lower	Upper
63	100		
106	28.2	21.4	32.0





#59
2-Hexanone
Concen: 90.989 ug/l
RT: 11.194 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

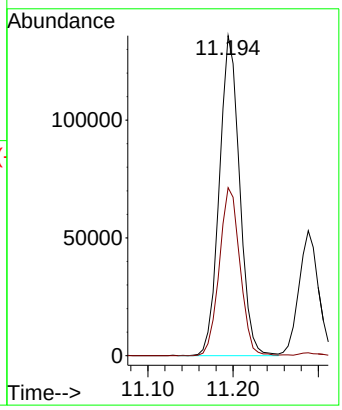
Tgt Ion: 43 Resp: 22506

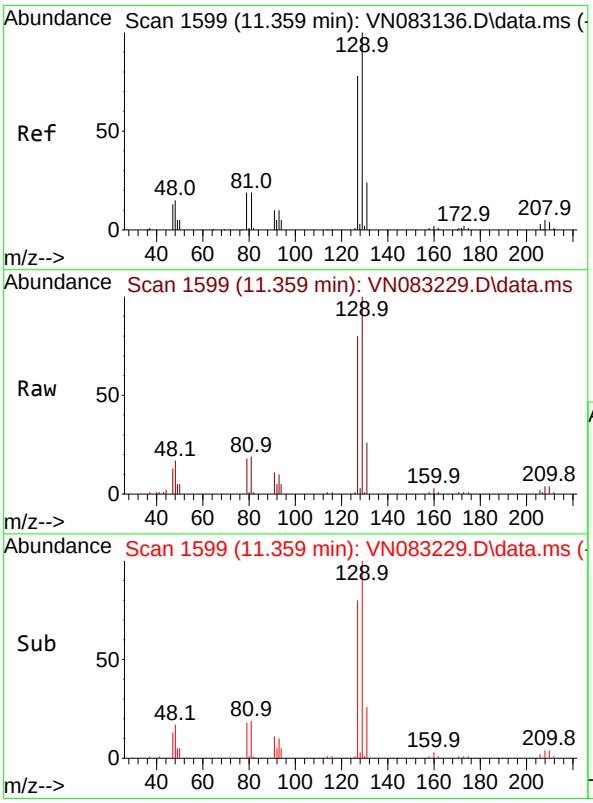
Ion	Ratio	Lower	Upper
43	100		
58	53.5	24.6	73.8

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

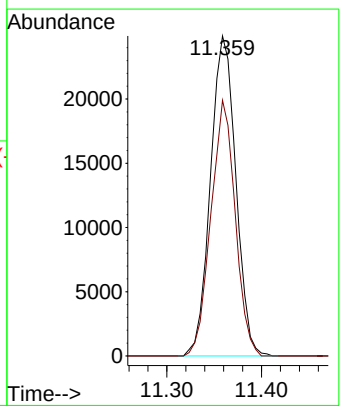


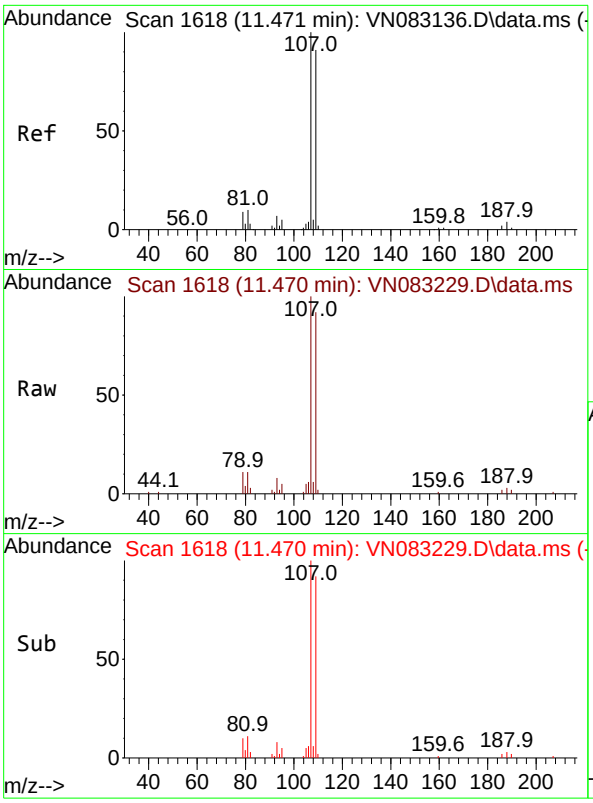


#60
Dibromochloromethane
Concen: 18.810 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion:129 Resp: 46323

Ion	Ratio	Lower	Upper
129	100		
127	76.6	39.2	117.6

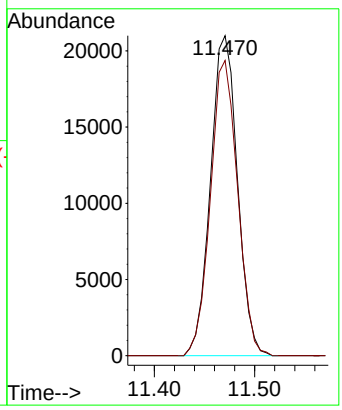




#61
1,2-Dibromoethane
Concen: 18.313 ug/l
RT: 11.470 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion:107 Resp: 3918

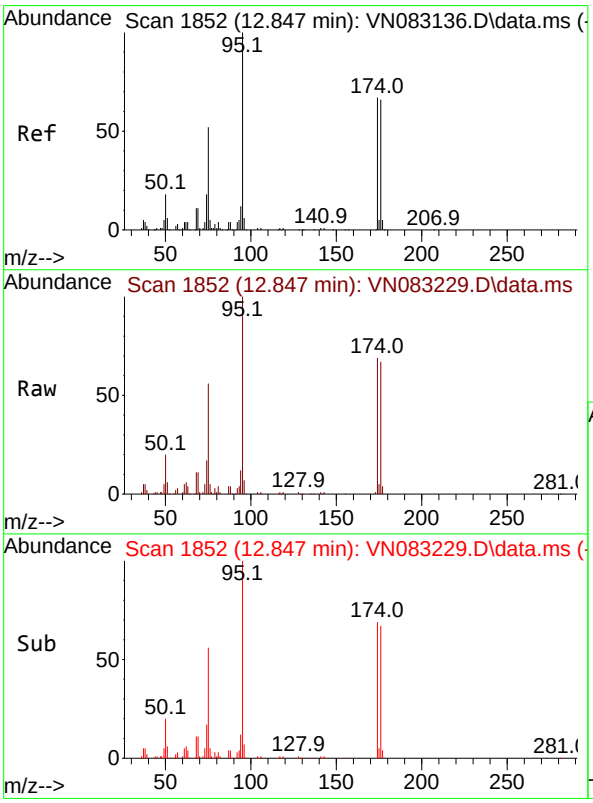
Ion	Ratio	Lower	Upper
107	100		
109	93.0	73.7	110.5



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

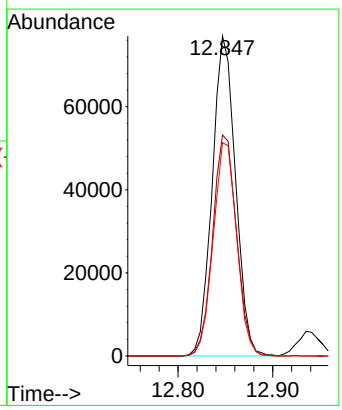
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

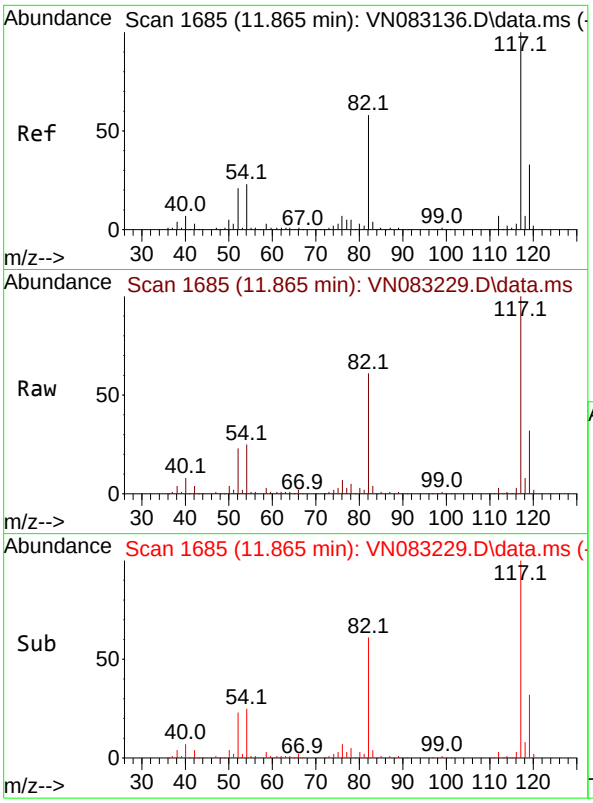


#62
4-Bromofluorobenzene
Concen: 45.324 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 95 Resp: 131576

Ion	Ratio	Lower	Upper
95	100		
174	70.9	0.0	159.2
176	67.5	0.0	147.6

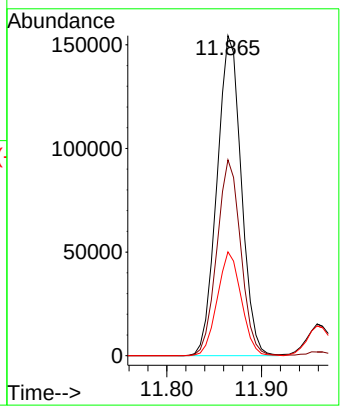




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion:117 Resp: 27566

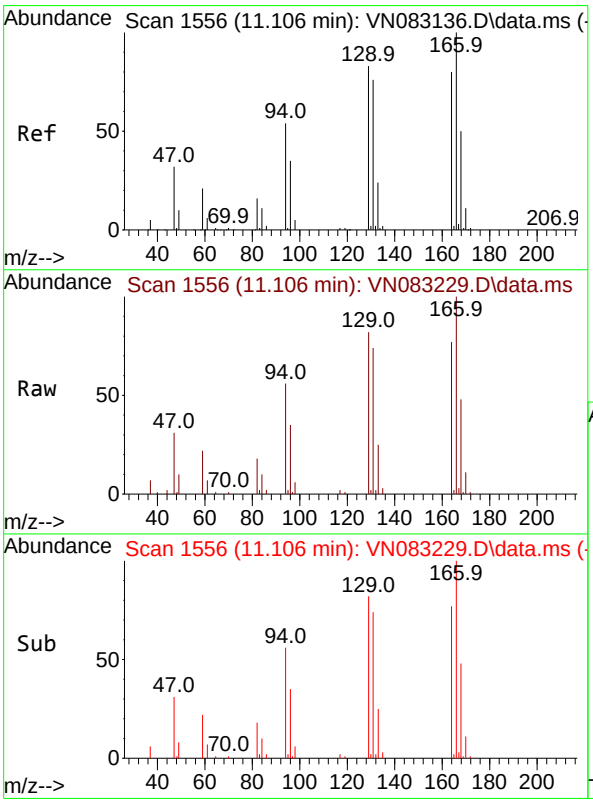
Ion	Ratio	Lower	Upper
117	100		
82	61.2	47.5	71.3
119	32.5	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

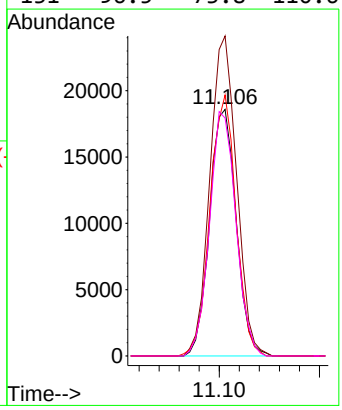
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

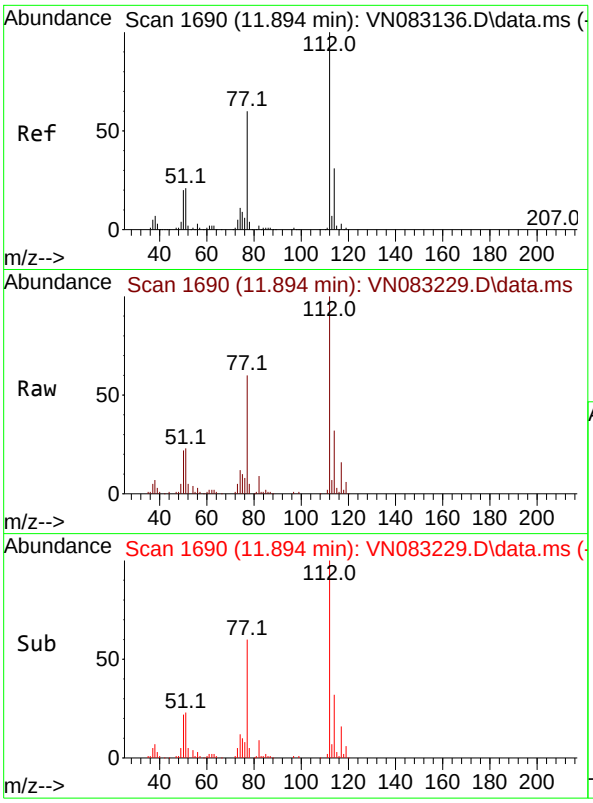


#64
Tetrachloroethene
Concen: 18.732 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion:164 Resp: 34197

Ion	Ratio	Lower	Upper
164	100		
166	129.8	101.4	152.0
129	105.8	75.7	113.5
131	96.5	73.8	110.6

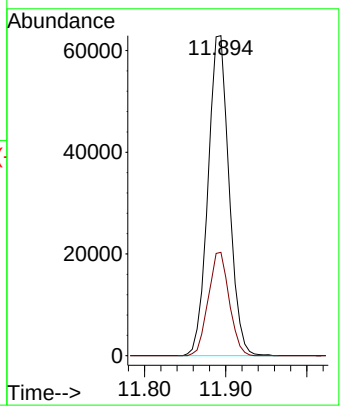




#65
Chlorobenzene
Concen: 18.612 ug/l
RT: 11.894 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion:112 Resp: 11337

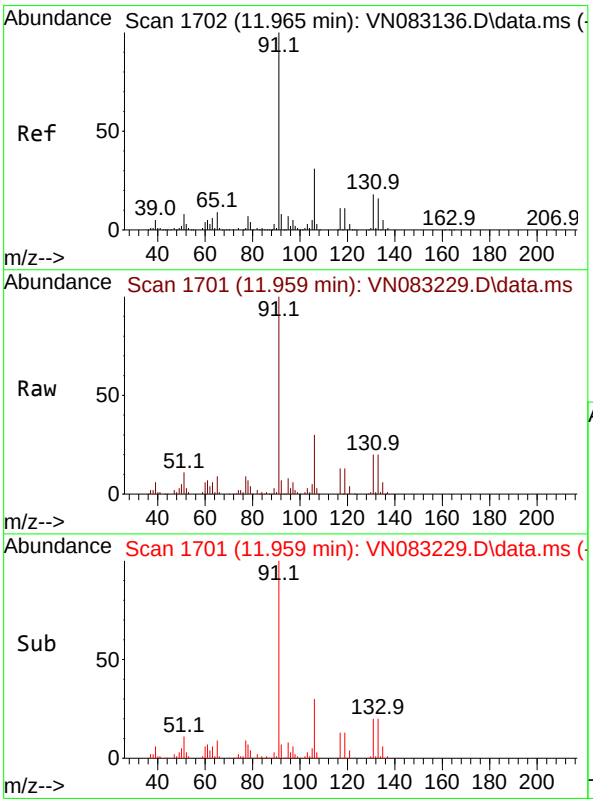
Ion	Ratio	Lower	Upper
112	100		
114	32.3	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

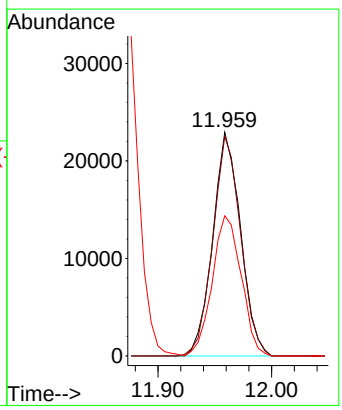
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

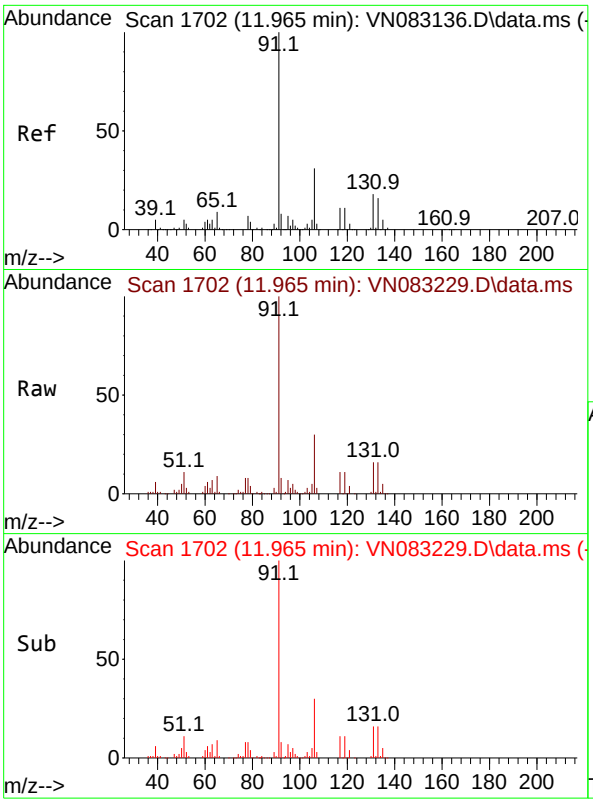


#66
1,1,1,2-Tetrachloroethane
Concen: 18.200 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion:131 Resp: 39102

Ion	Ratio	Lower	Upper
131	100		
133	98.0	47.3	142.0
119	65.0	32.5	97.4





#67
Ethyl Benzene
Concen: 18.610 ug/l
RT: 11.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

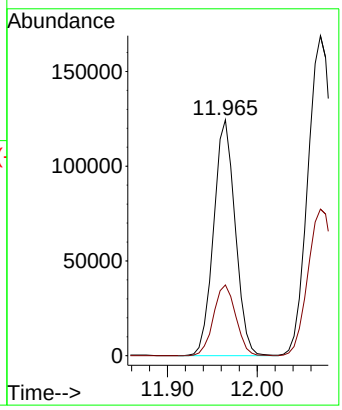
Tgt Ion: 91 Resp: 20796

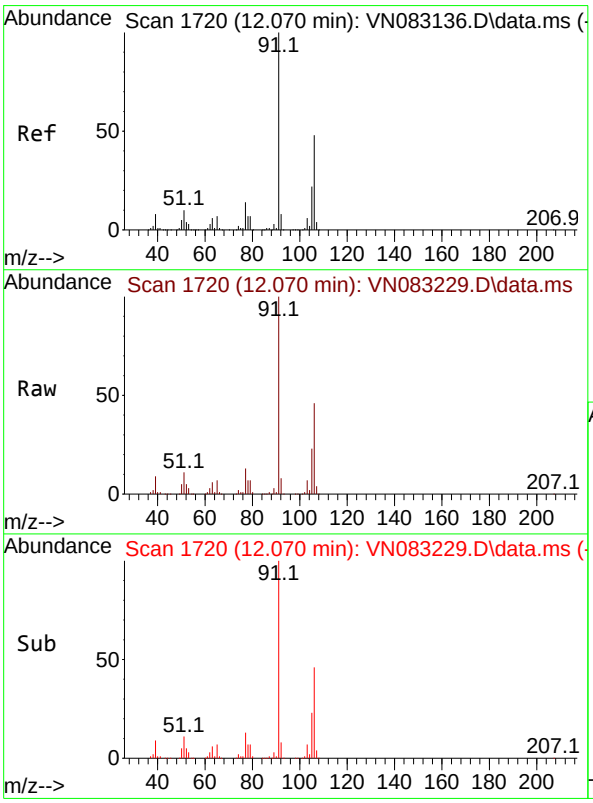
Ion	Ratio	Lower	Upper
91	100		
106	30.0	24.0	36.0

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

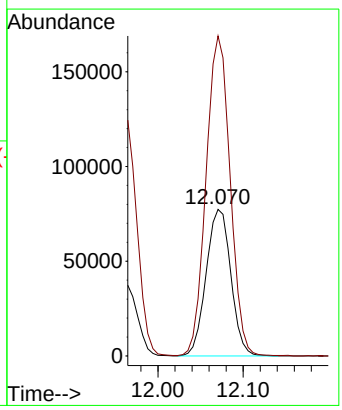


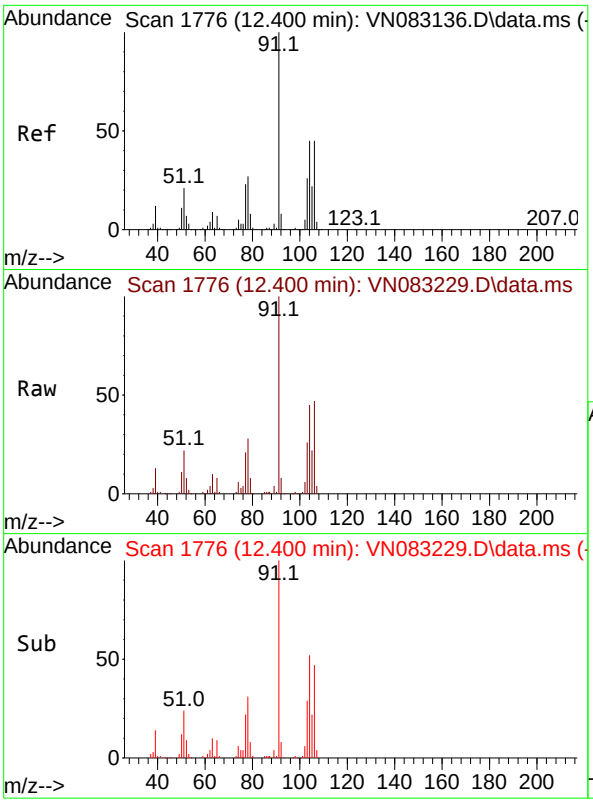


#68
m/p-Xylenes
Concen: 37.275 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion:106 Resp: 156037

Ion	Ratio	Lower	Upper
106	100		
91	213.1	166.1	249.1

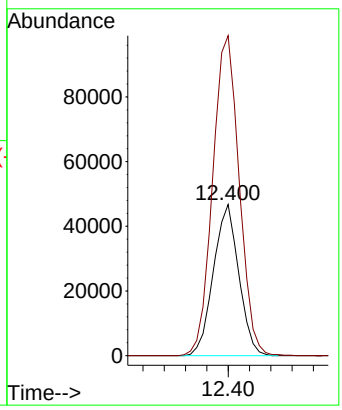




#69
o-Xylene
Concen: 18.672 ug/l
RT: 12.400 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion:106 Resp: 7709

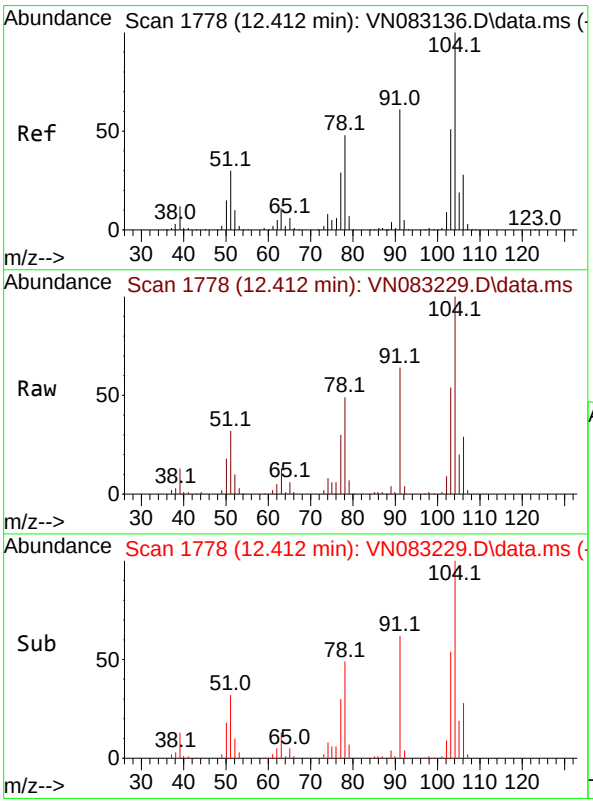
Ion	Ratio	Lower	Upper
106	100		
91	221.5	111.3	333.9



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

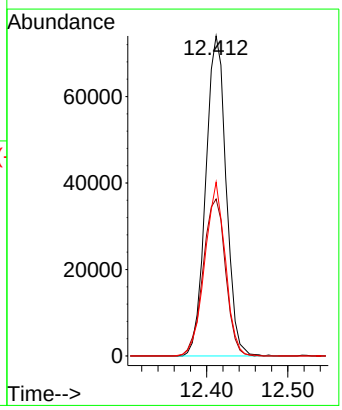
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

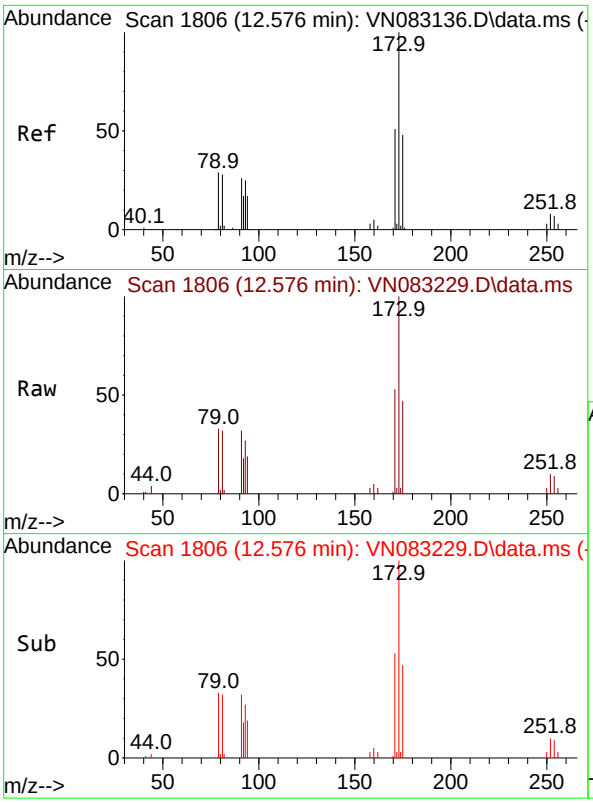


#70
Styrene
Concen: 18.577 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion:104 Resp: 128820

Ion	Ratio	Lower	Upper
104	100		
78	53.9	41.6	62.4
103	54.8	44.0	66.0

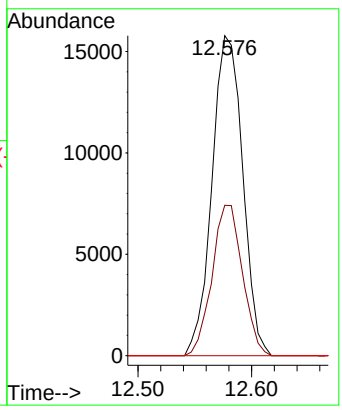




#71
Bromoform
Concen: 18.204 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion:173 Resp: 2962

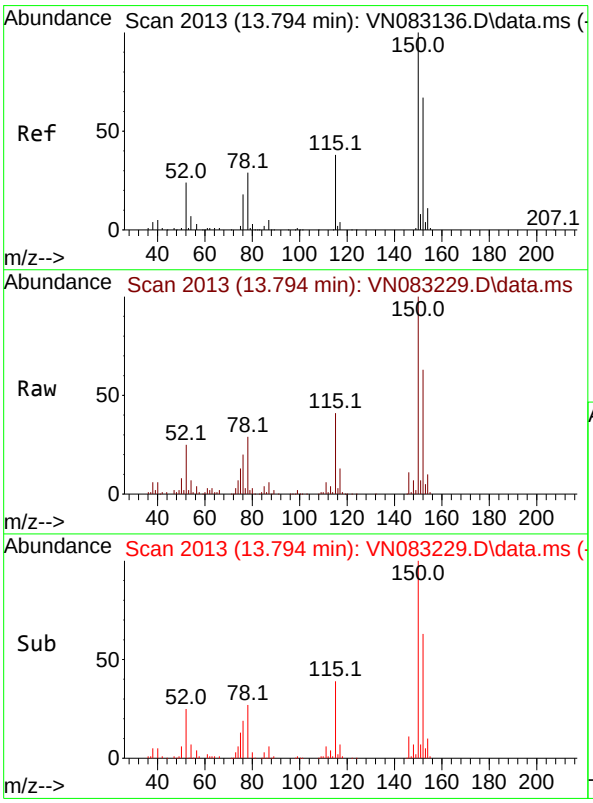
Ion	Ratio	Lower	Upper
173	100		
175	46.6	24.0	72.0
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

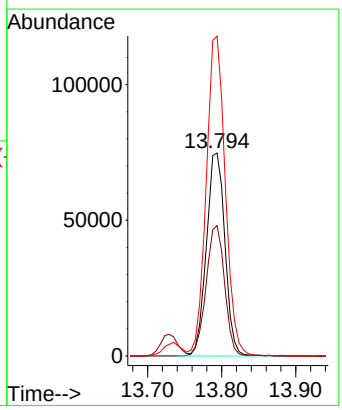
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

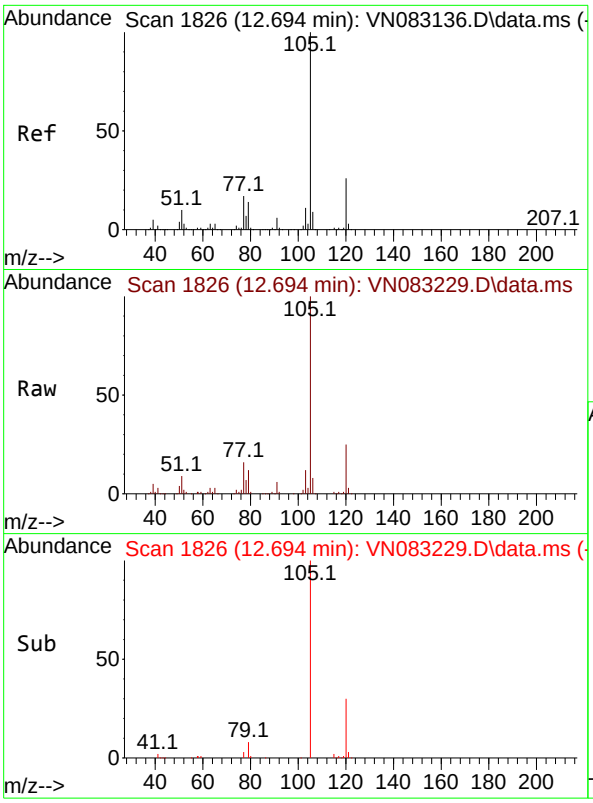


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion:152 Resp: 129761

Ion	Ratio	Lower	Upper
152	100		
115	63.3	30.6	91.6
150	162.3	0.0	348.6





#73
Isopropylbenzene
Concen: 18.440 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

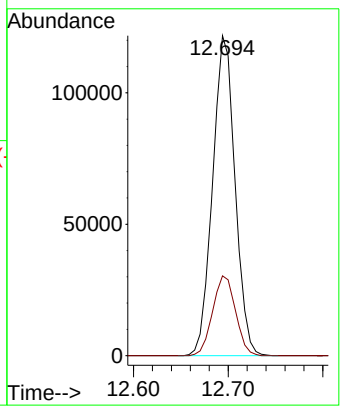
Tgt Ion:105 Resp: 20013

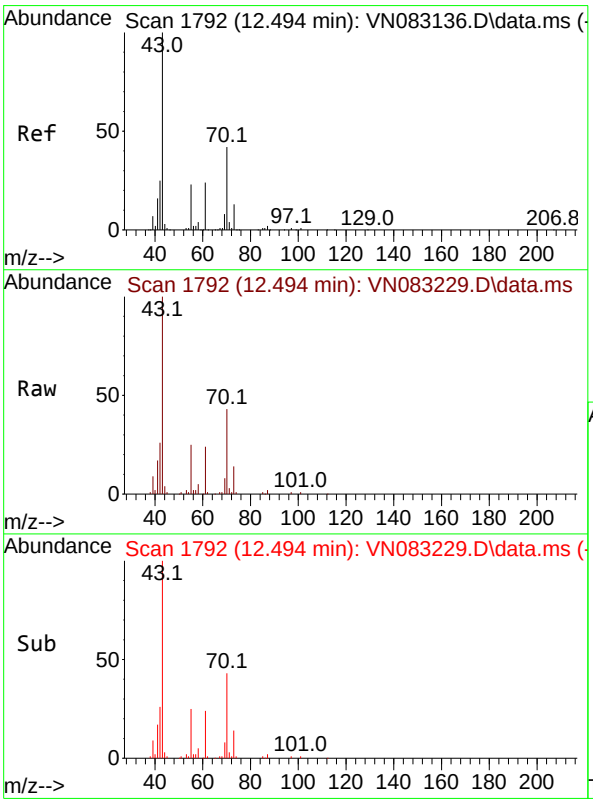
Ion	Ratio	Lower	Upper
105	100		
120	25.5	12.9	38.6

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

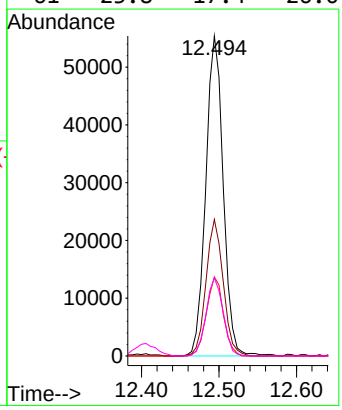


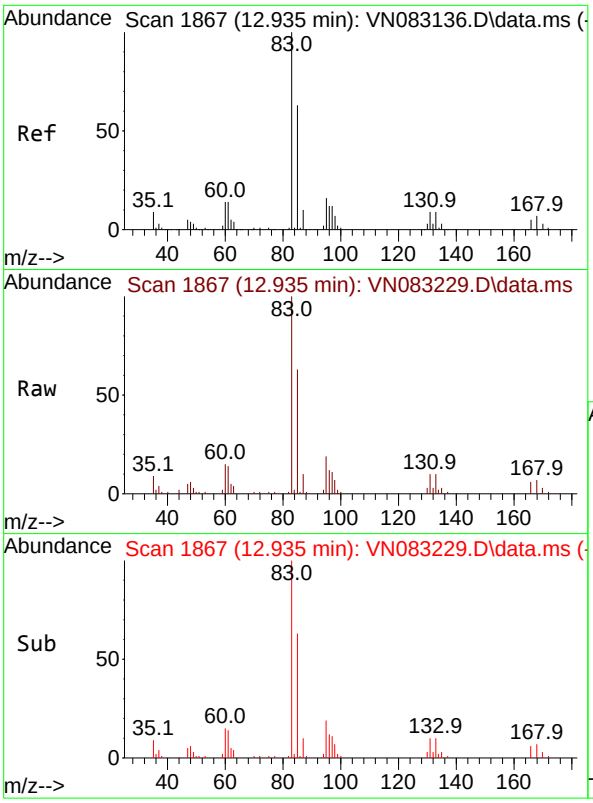


#74
N-amyl acetate
Concen: 16.317 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 43 Resp: 86625

Ion	Ratio	Lower	Upper
43	100		
70	42.0	29.8	44.6
55	24.1	18.7	28.1
61	23.8	17.4	26.0





#75
1,1,2,2-Tetrachloroethane
Concen: 18.091 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

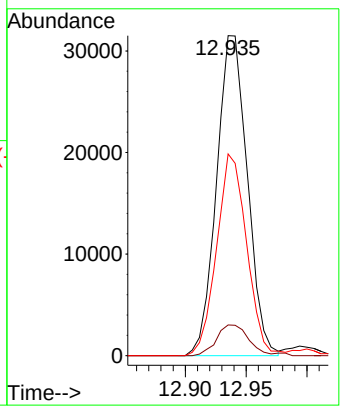
Tgt Ion: 83 Resp: 5553

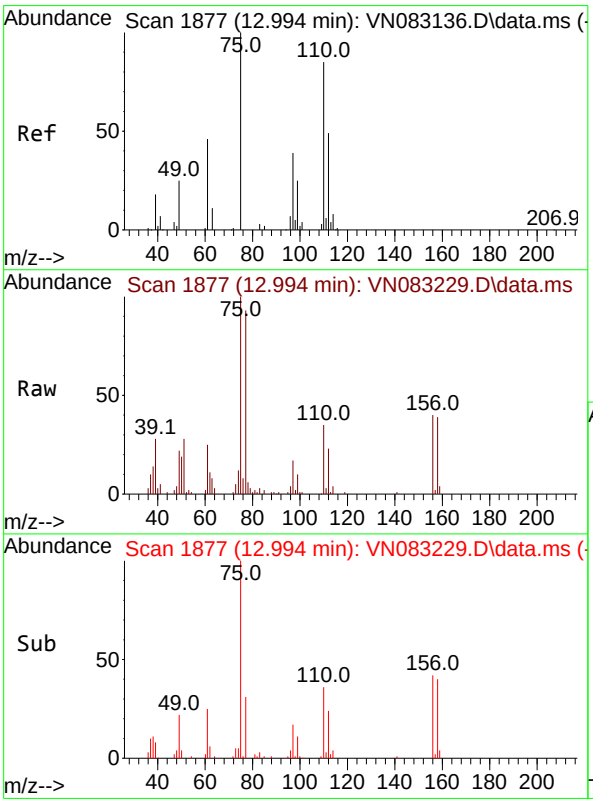
Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.0	14.9
85	61.5	31.9	95.7

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

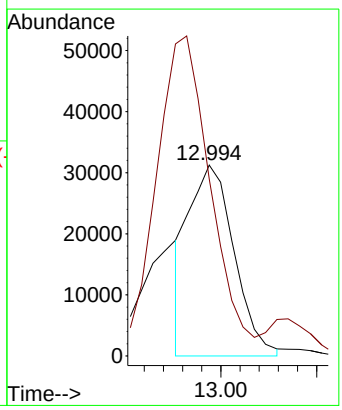


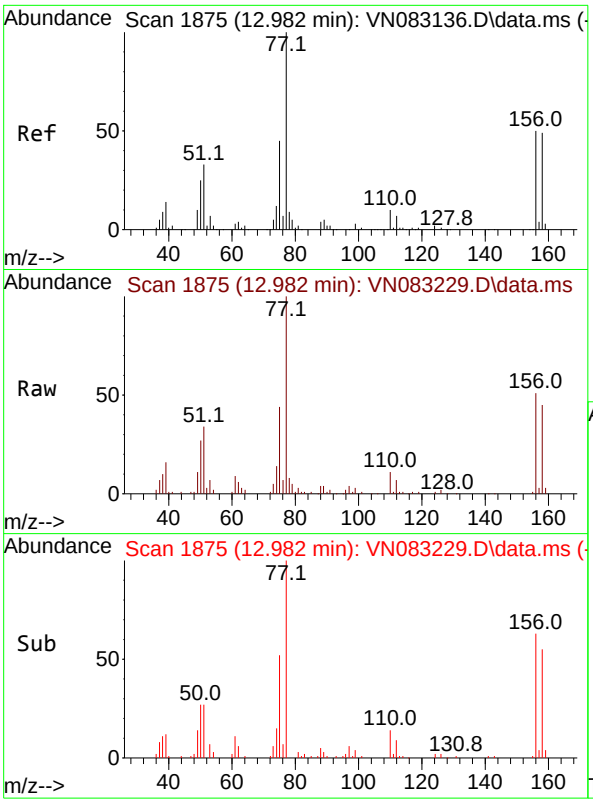


#76
1,2,3-Trichloropropane
Concen: 18.118 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 75 Resp: 51599

Ion	Ratio	Lower	Upper
75	100		
77	200.0	110.9	332.6

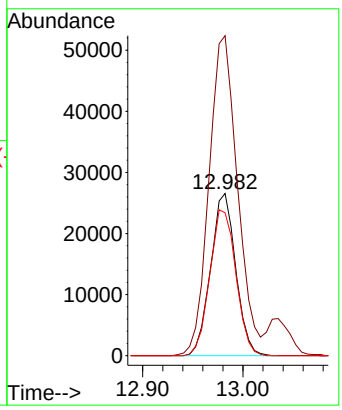




#77
Bromobenzene
Concen: 19.068 ug/l
RT: 12.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion:156 Resp: 4597

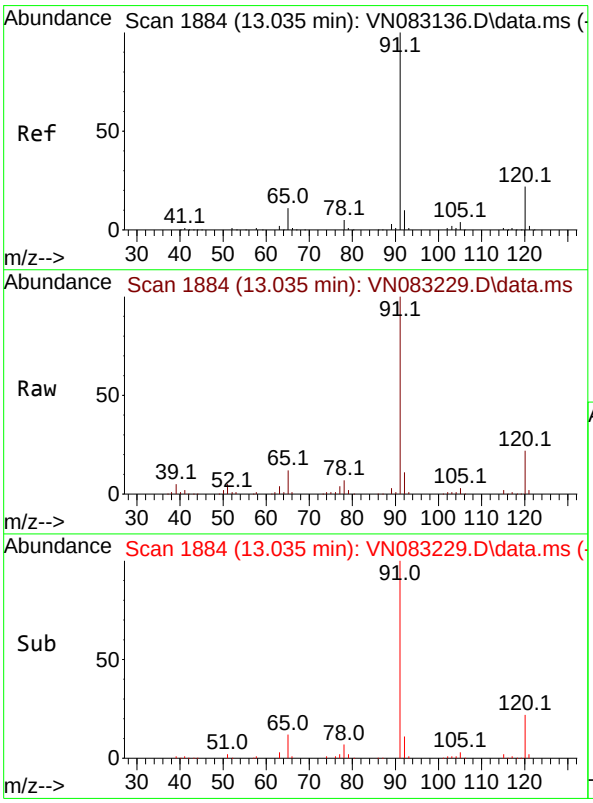
Ion	Ratio	Lower	Upper
156	100		
77	224.5	111.3	333.8
158	93.4	48.3	144.9



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

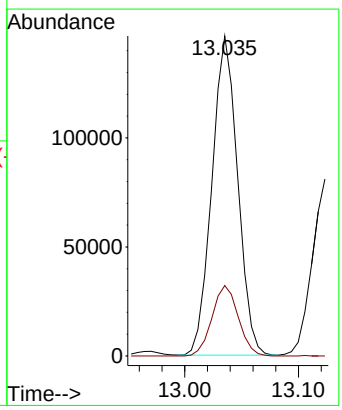
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

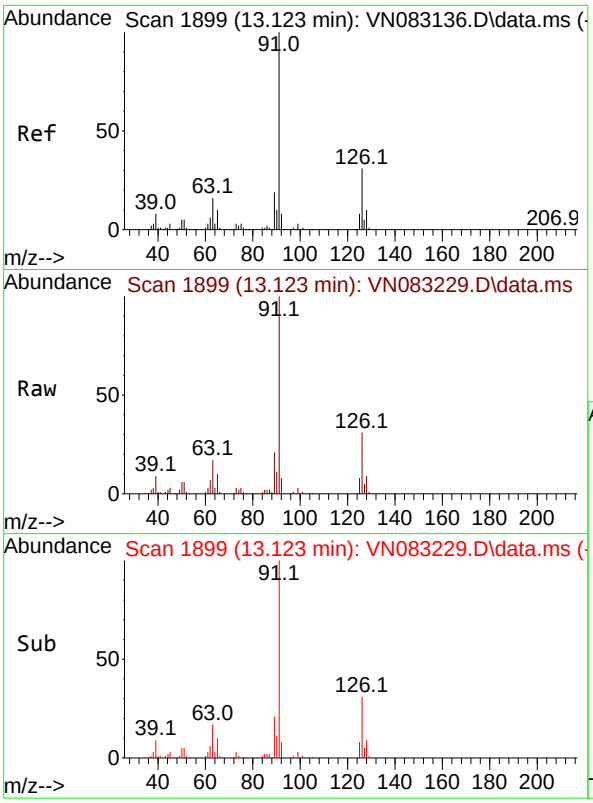


#78
n-propylbenzene
Concen: 18.436 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 91 Resp: 230409

Ion	Ratio	Lower	Upper
91	100		
120	22.5	10.9	32.9

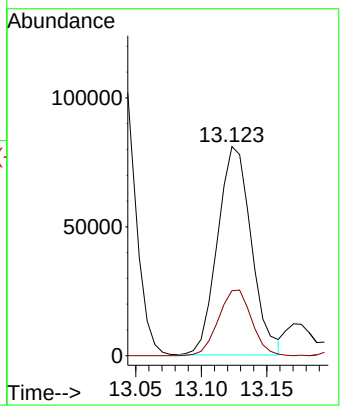




#79
2-Chlorotoluene
Concen: 18.328 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 91 Resp: 14521

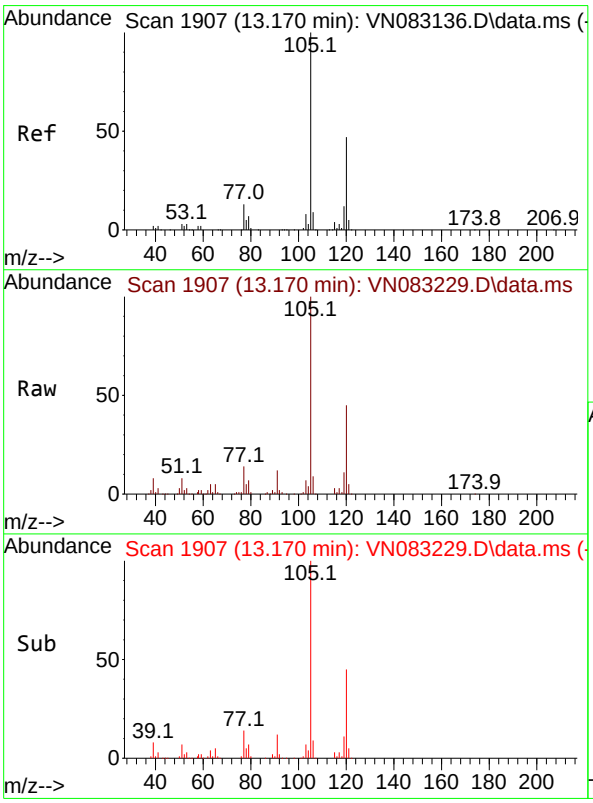
Ion	Ratio	Lower	Upper
91	100		
126	30.8	16.2	48.6



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

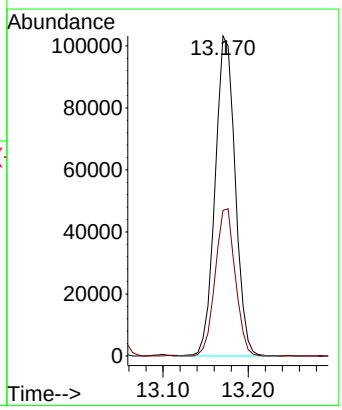
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

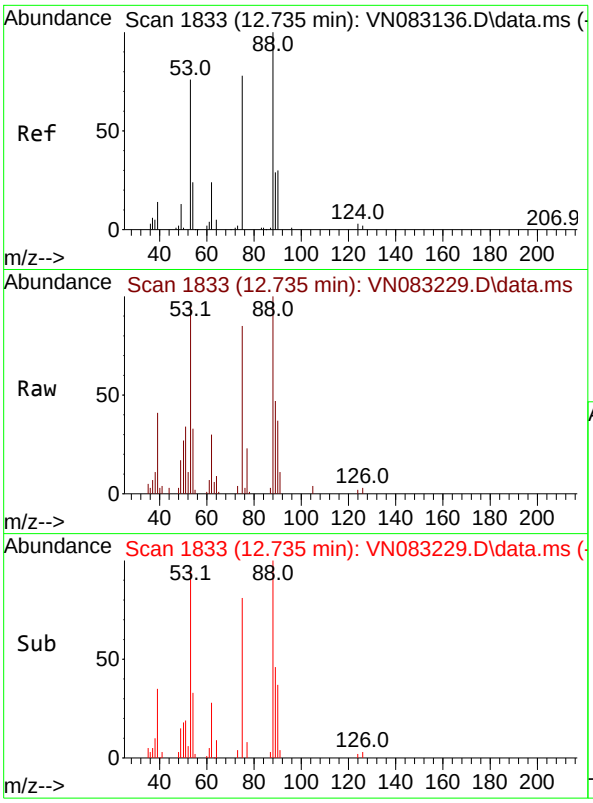


#80
1,3,5-Trimethylbenzene
Concen: 18.604 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion:105 Resp: 169051

Ion	Ratio	Lower	Upper
105	100		
120	46.0	24.3	72.8





#81
trans-1,4-Dichloro-2-butene
Concen: 17.574 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

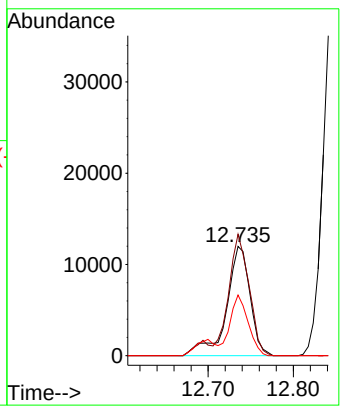
Tgt Ion: 75 Resp: 2300

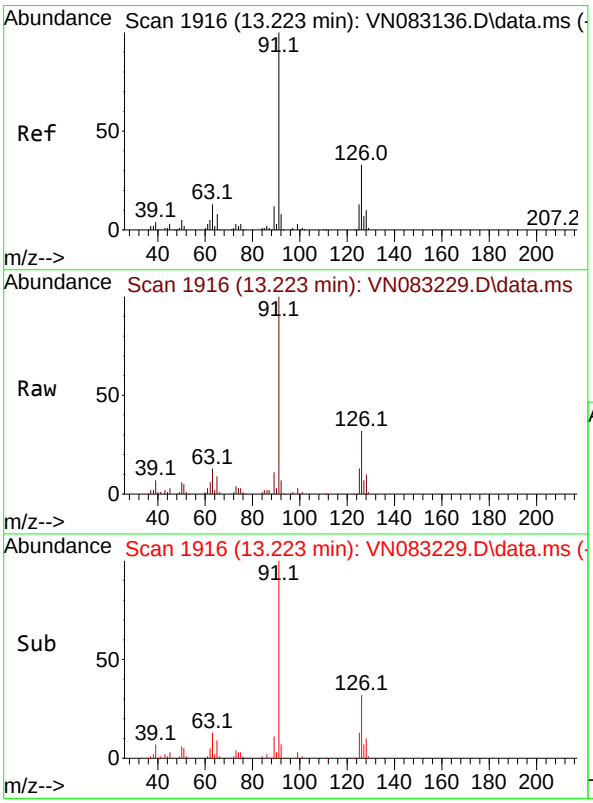
Ion	Ratio	Lower	Upper
75	100		
53	95.8	88.4	132.6
89	42.9	36.3	54.5

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

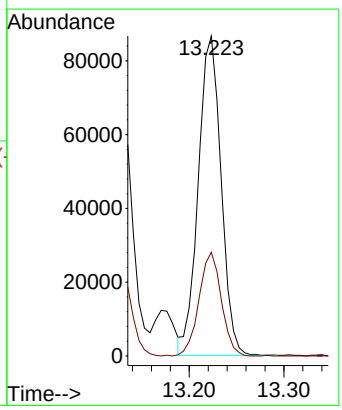


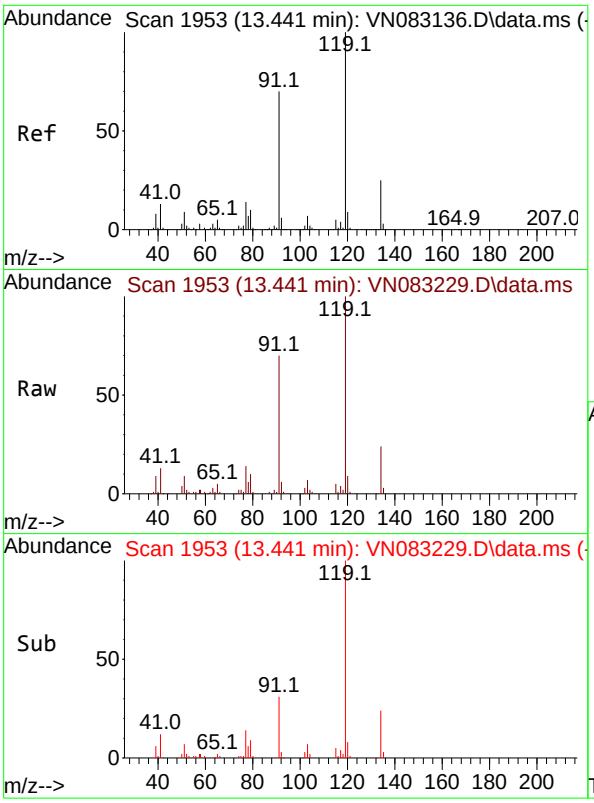


#82
4-Chlorotoluene
Concen: 18.230 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 91 Resp: 144886

Ion	Ratio	Lower	Upper
91	100		
126	31.9	16.2	48.6

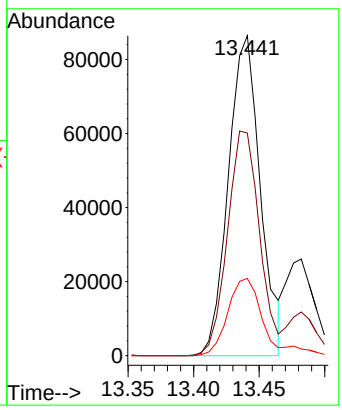




#83
tert-Butylbenzene
Concen: 18.214 ug/l
RT: 13.441 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion:119 Resp: 14657

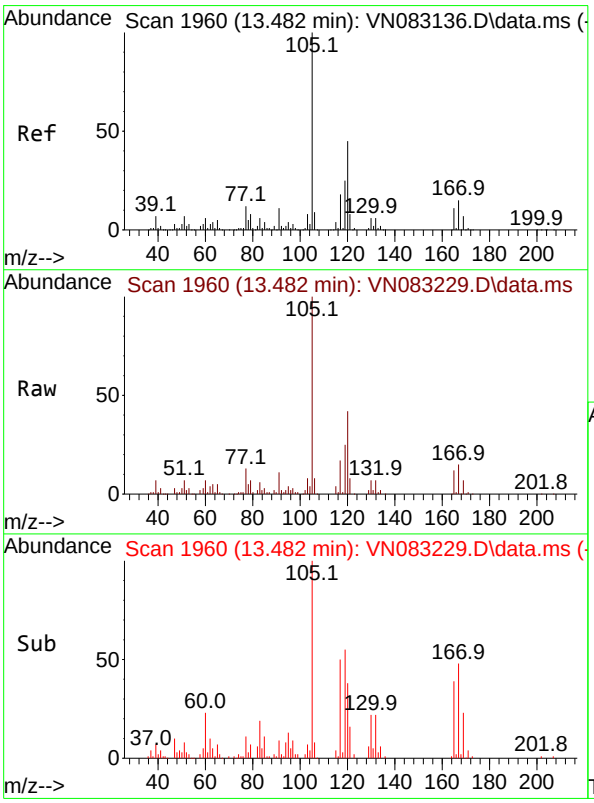
Ion	Ratio	Lower	Upper
119	100		
91	70.5	35.0	105.1
134	26.9	13.3	39.8



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

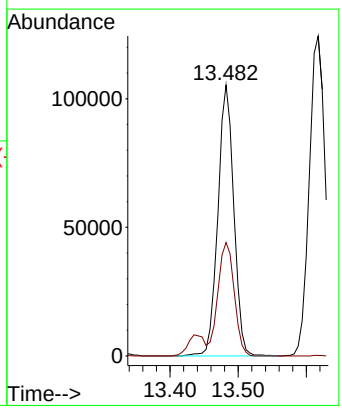
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

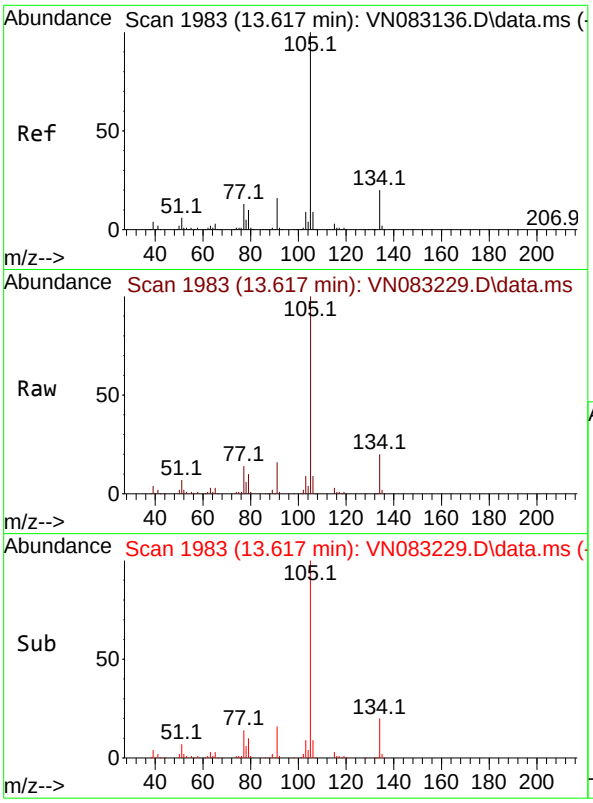


#84
1,2,4-Trimethylbenzene
Concen: 18.676 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion:105 Resp: 171027

Ion	Ratio	Lower	Upper
105	100		
120	43.2	21.9	65.8

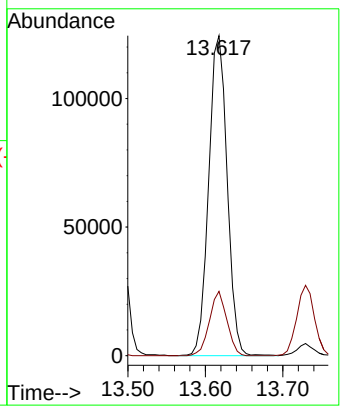




#85
sec-Butylbenzene
Concen: 18.750 ug/l
RT: 13.617 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion:105 Resp: 20587

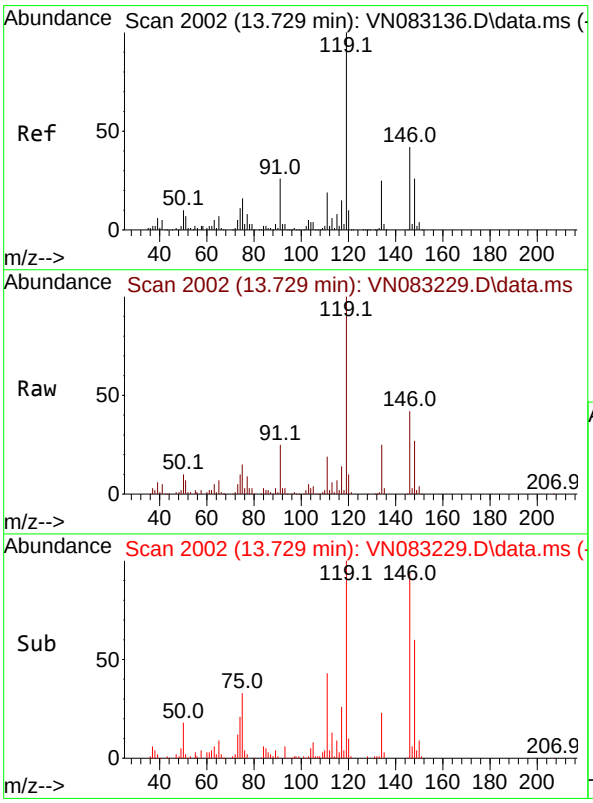
Ion	Ratio	Lower	Upper
105	100		
134	19.0	9.8	29.3



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

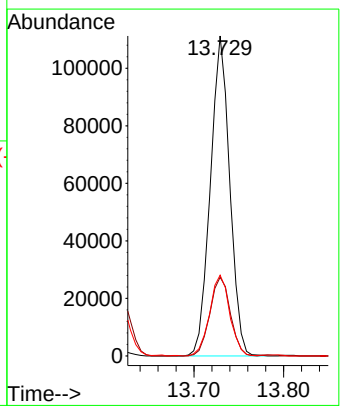
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

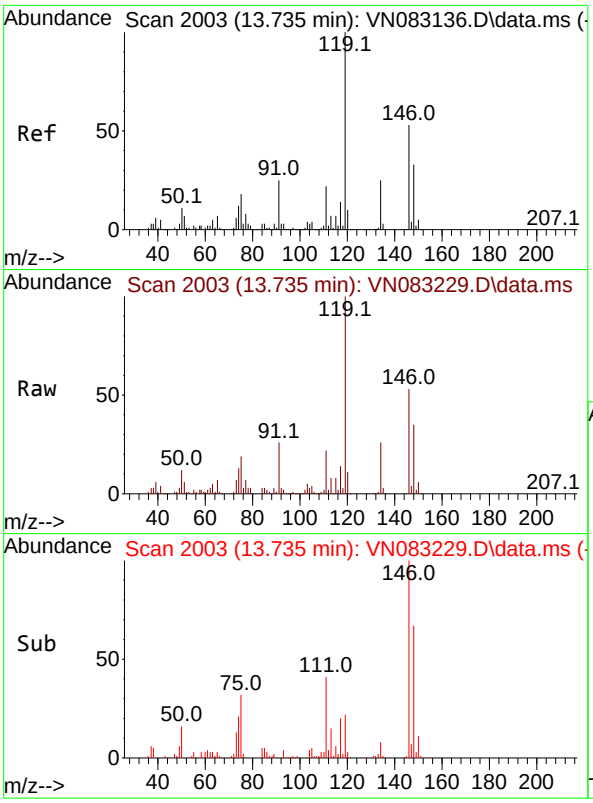


#86
p-Isopropyltoluene
Concen: 18.409 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion:119 Resp: 166899

Ion	Ratio	Lower	Upper
119	100		
134	25.9	13.0	39.0
91	26.2	12.3	36.9

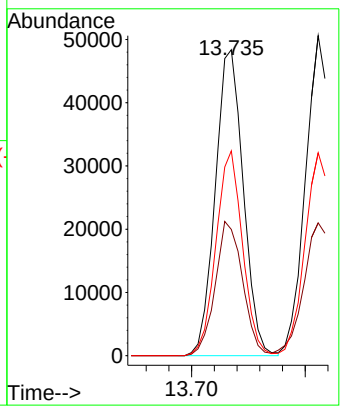




#87
1,3-Dichlorobenzene
Concen: 18.256 ug/l
RT: 13.735 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion:146 Resp: 8282

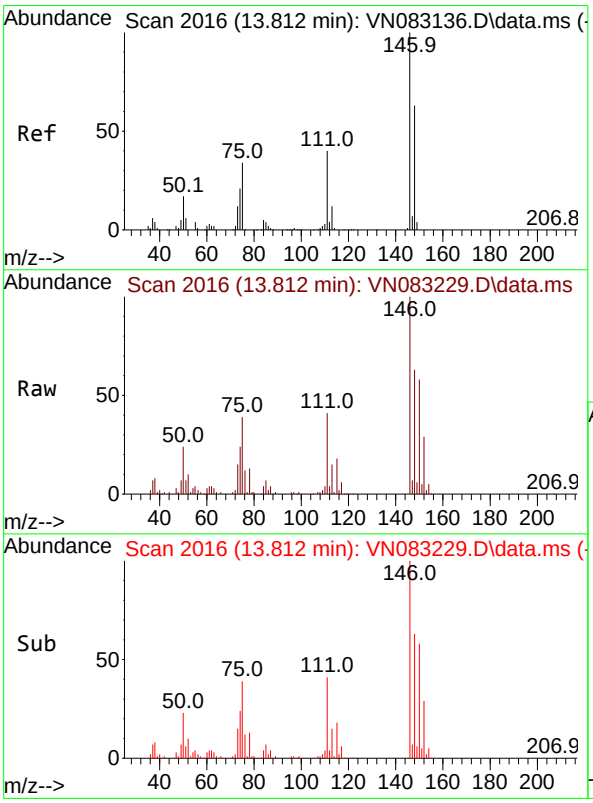
Ion	Ratio	Lower	Upper
146	100		
111	42.9	20.6	61.9
148	63.5	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

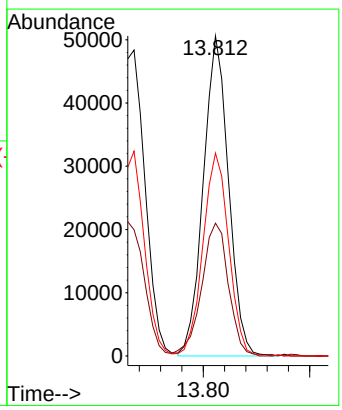
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

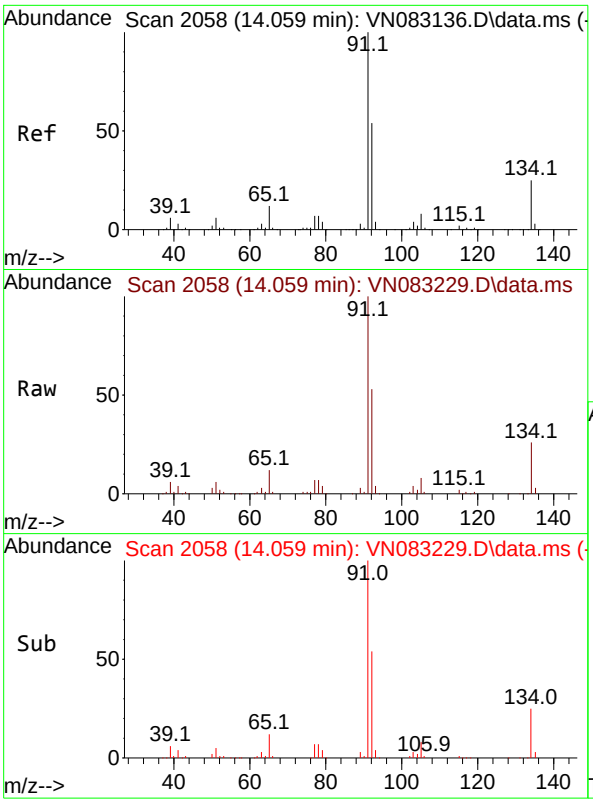


#88
1,4-Dichlorobenzene
Concen: 18.192 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion:146 Resp: 83205

Ion	Ratio	Lower	Upper
146	100		
111	44.3	20.1	60.3
148	64.7	32.2	96.6

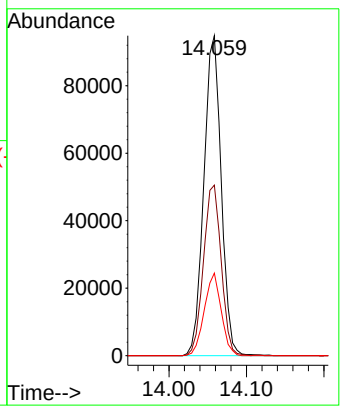




#89
n-Butylbenzene
Concen: 18.774 ug/l
RT: 14.059 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 91 Resp: 14748

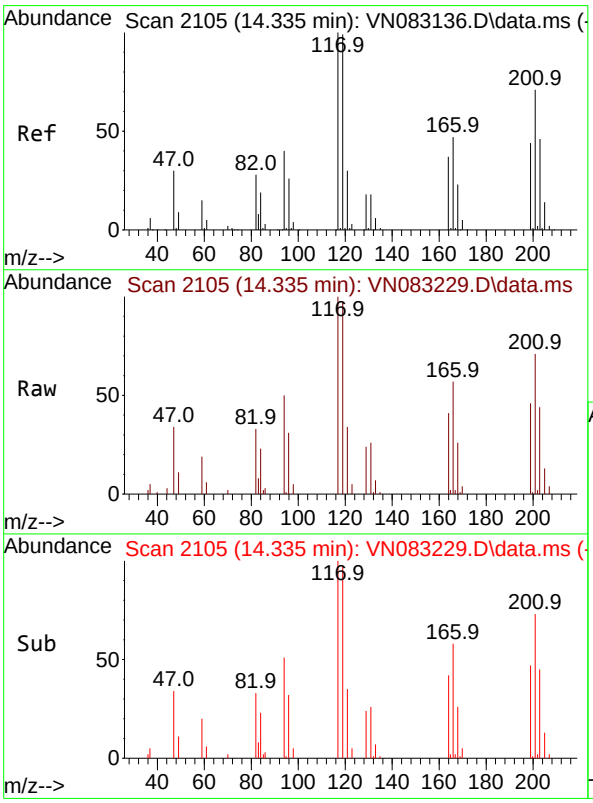
Ion	Ratio	Lower	Upper
91	100		
92	54.4	26.1	78.3
134	25.1	12.1	36.3



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

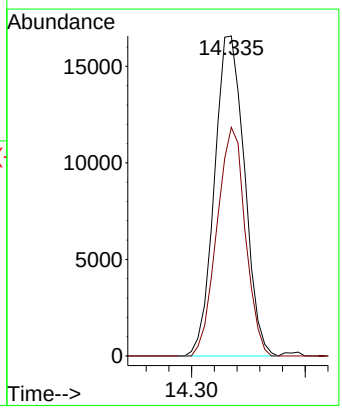
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

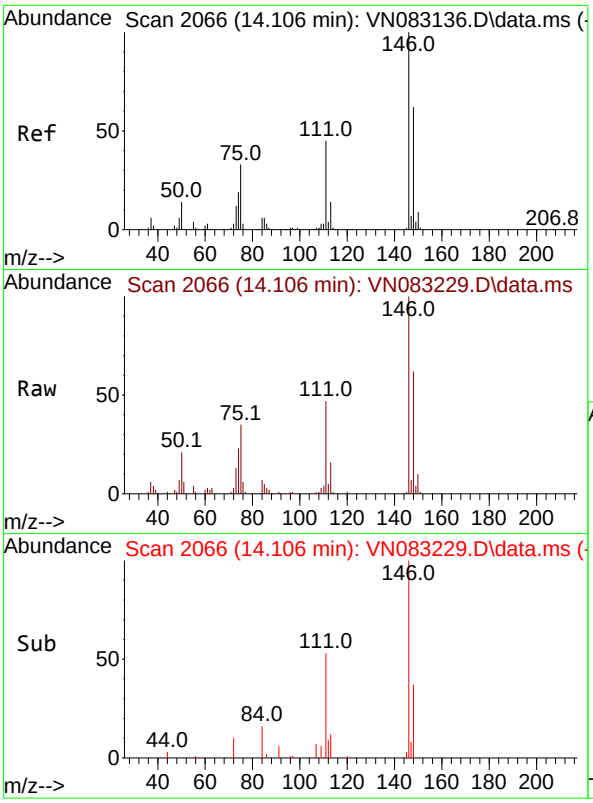


#90
Hexachloroethane
Concen: 17.357 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion:117 Resp: 30402

Ion	Ratio	Lower	Upper
117	100		
201	67.7	35.8	107.3

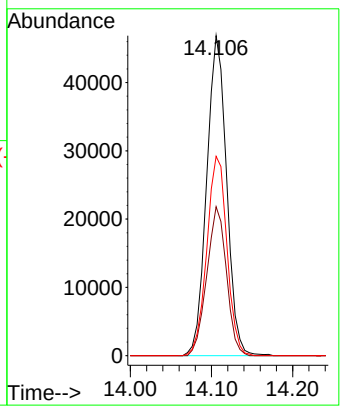




#91
1,2-Dichlorobenzene
Concen: 18.154 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion:146 Resp: 7969

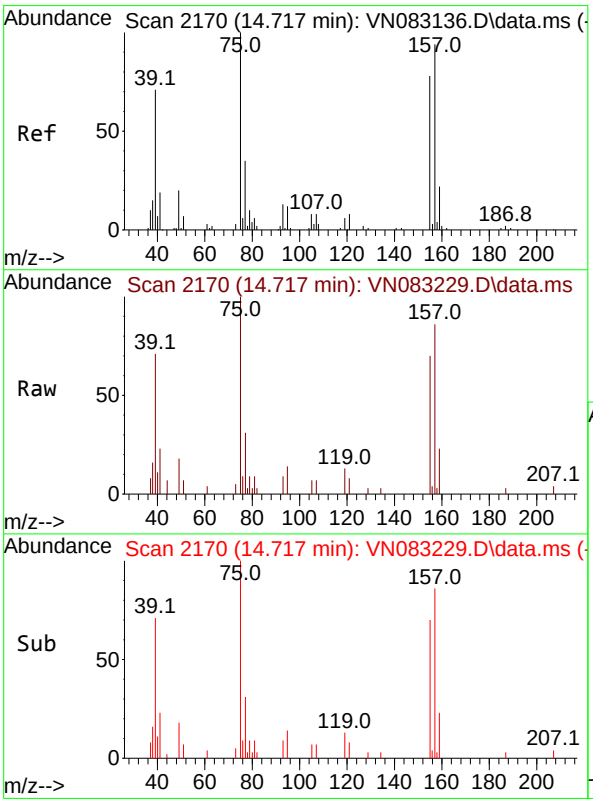
Ion	Ratio	Lower	Upper
146	100		
111	45.9	21.4	64.2
148	63.1	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

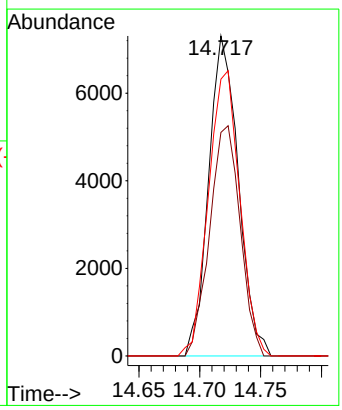
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

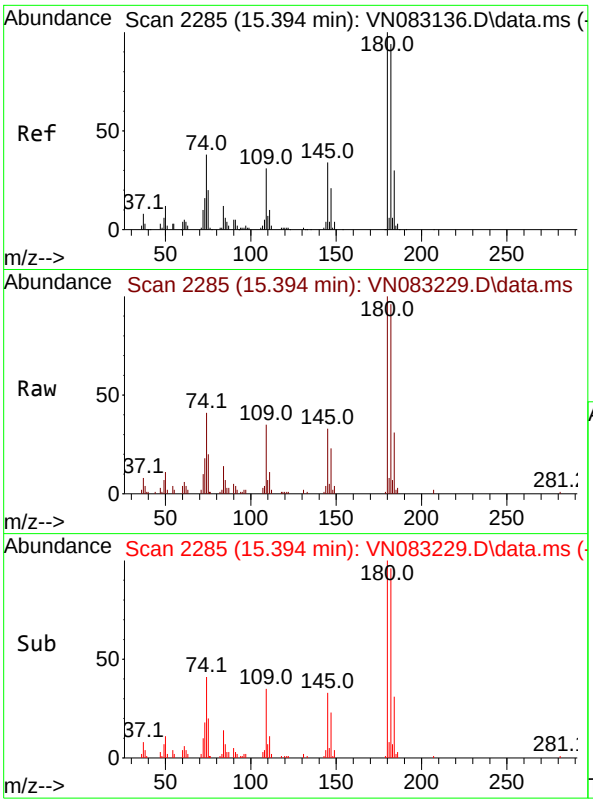


#92
1,2-Dibromo-3-Chloropropane
Concen: 16.620 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion: 75 Resp: 12380

Ion	Ratio	Lower	Upper
75	100		
155	74.1	36.6	109.8
157	94.4	46.9	140.6





#93
1,2,4-Trichlorobenzene
Concen: 18.204 ug/l
RT: 15.394 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

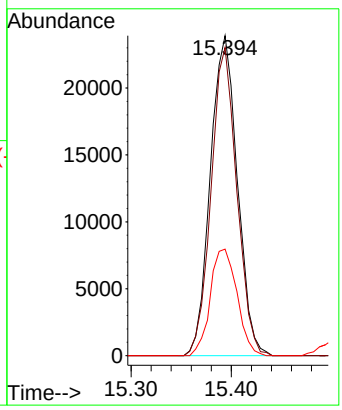
Tgt Ion:180 Resp: 4477

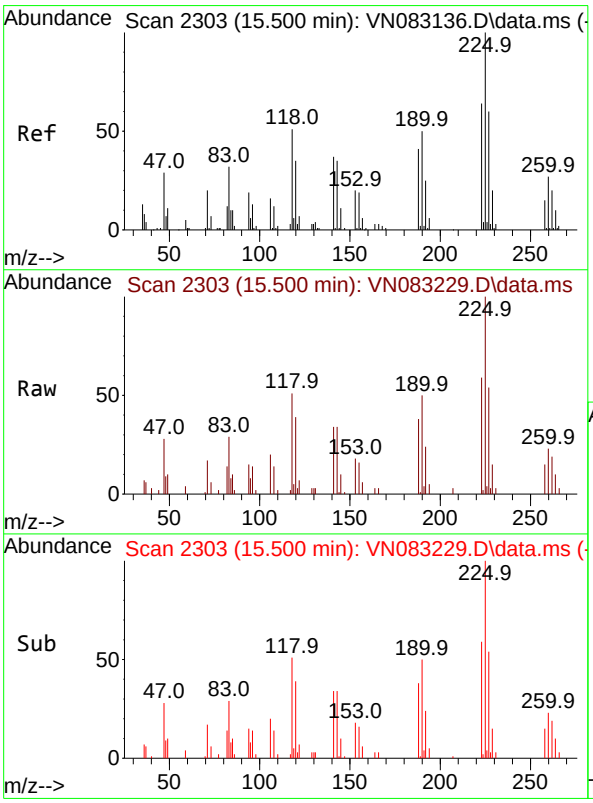
Ion	Ratio	Lower	Upper
180	100		
182	91.5	47.3	141.8
145	33.0	15.7	47.1

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024

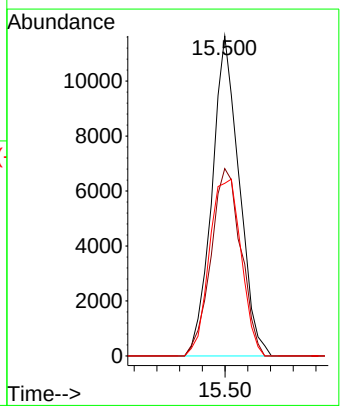


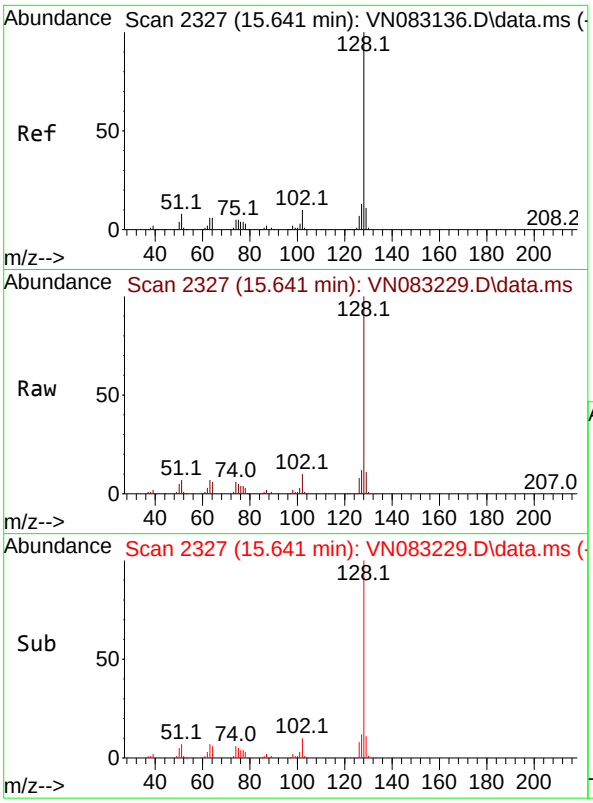


#94
Hexachlorobutadiene
Concen: 17.705 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion:225 Resp: 19366

Ion	Ratio	Lower	Upper
225	100		
223	64.8	31.9	95.7
227	64.5	32.5	97.5

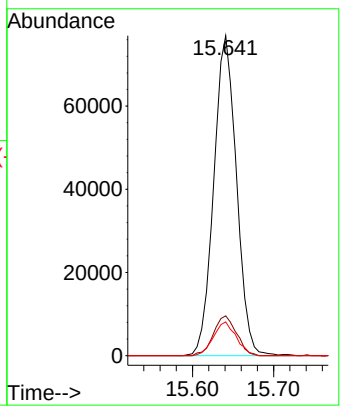




#95
Naphthalene
Concen: 17.181 ug/l
RT: 15.641 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion:128 Resp: 14968

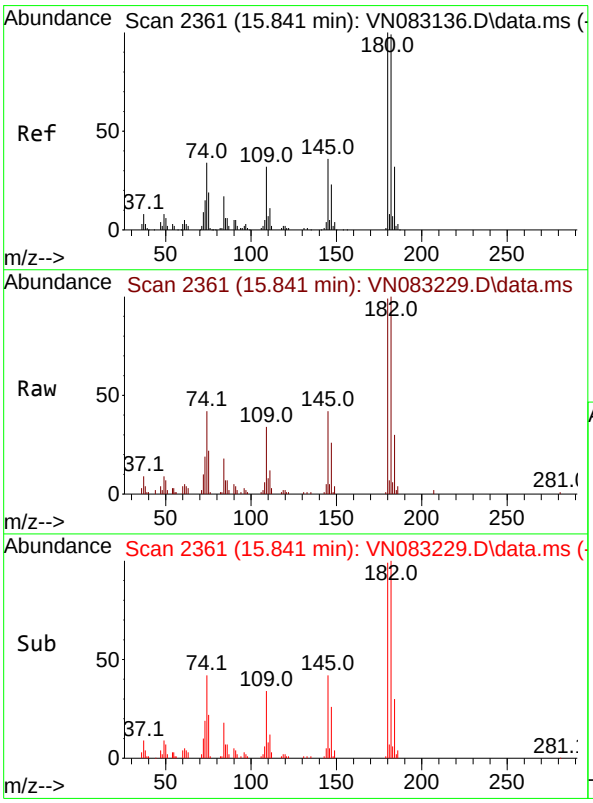
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.6	16.0
129	10.6	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VN0812WBSD01

Manual Integrations
APPROVED

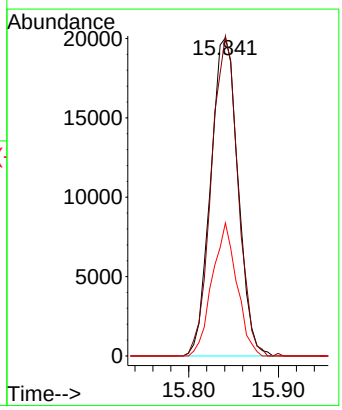
Reviewed By :John Carlone 08/13/2024
Supervised By :Semsettin Yesilyurt 08/13/2024



#96
1,2,3-Trichlorobenzene
Concen: 17.435 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. -0.000 min
Lab File: VN083229.D
Acq: 12 Aug 2024 11:46

Tgt Ion:180 Resp: 42430

Ion	Ratio	Lower	Upper
180	100		
182	97.5	48.9	146.8
145	37.8	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 incorrectly
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 incorrectly
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 incorrectly
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 incorrectly
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 incorrectly
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 incorrectly
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 incorrectly
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 incorrectly
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 incorrectly
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 incorrectly
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 incorrectly

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

Manual Integration Report

Sequence:	VN081224	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN083225.D	1,2,3-Trichloropropane	JOHN	8/13/2024 9:33:50 AM	SAM	8/13/2024 6:55:23 PM	Peak Integrated by Software incorrectly
VN0812WBS01	VN083228.D	1,2,3-Trichloropropane	JOHN	8/13/2024 9:33:54 AM	SAM	8/13/2024 6:55:24 PM	Peak Integrated by Software incorrectly
VN0812WBS01	VN083228.D	Vinyl Acetate	JOHN	8/13/2024 9:33:54 AM	SAM	8/13/2024 6:55:24 PM	Peak Integrated by Software incorrectly
VN0812WBSD01	VN083229.D	1,2,3-Trichloropropane	JOHN	8/13/2024 9:33:58 AM	SAM	8/13/2024 6:55:26 PM	Peak Integrated by Software incorrectly
VN0812WBSD01	VN083229.D	Vinyl Acetate	JOHN	8/13/2024 9:33:58 AM	SAM	8/13/2024 6:55:26 PM	Peak Integrated by Software incorrectly

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

Manual Integration Report

Sequence:	vn081324	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN083246.D	1,2,3-Trichloropropane	MMDadoda	8/14/2024 5:14:33 AM	SAM	8/14/2024 5:25:05 AM	Peak Integrated by Software incorrectly
VSTDCCC050	VN083246.D	Vinyl Acetate	MMDadoda	8/14/2024 5:14:33 AM	SAM	8/14/2024 5:25:05 AM	Peak Integrated by Software incorrectly
VN0813WBS01	VN083249.D	1,2,3-Trichloropropane	MMDadoda	8/14/2024 5:14:35 AM	SAM	8/14/2024 5:25:06 AM	Peak Integrated by Software incorrectly
VN0813WBS01	VN083249.D	Vinyl Acetate	MMDadoda	8/14/2024 5:14:35 AM	SAM	8/14/2024 5:25:06 AM	Peak Integrated by Software incorrectly
VSTDCCC050	VN083271.D	1,2,3-Trichloropropane	MMDadoda	8/14/2024 5:14:48 AM	SAM	8/14/2024 5:25:19 AM	Peak Integrated by Software incorrectly
VSTDCCC050	VN083271.D	Vinyl Acetate	MMDadoda	8/14/2024 5:14:48 AM	SAM	8/14/2024 5:25:19 AM	Peak Integrated by Software incorrectly
VSTDCCC050	VN083273.D	1,2,3-Trichloropropane	JOHN	8/14/2024 9:36:48 AM	MMDadoda	8/14/2024 6:38:01 PM	Peak Integrated by Software incorrectly
VSTDCCC050	VN083273.D	Vinyl Acetate	JOHN	8/14/2024 9:36:48 AM	MMDadoda	8/14/2024 6:38:01 PM	Peak Integrated by Software incorrectly

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

Manual Integration Report

Sequence:	VN081424	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN083295.D	1,2,3-Trichloropropane	MMDadoda	8/15/2024 1:43:36 AM	SAM	8/15/2024 1:45:44 AM	Peak Integrated by Software incorrectly
VN0814WBS01	VN083298.D	1,2,3-Trichloropropane	MMDadoda	8/15/2024 1:43:39 AM	SAM	8/15/2024 1:45:49 AM	Peak Integrated by Software incorrectly
VN0814WBS01	VN083298.D	Allyl chloride	MMDadoda	8/15/2024 1:43:39 AM	SAM	8/15/2024 1:45:49 AM	Peak Integrated by Software incorrectly
VSTDCCC050	VN083318.D	1,2,3-Trichloropropane	MMDadoda	8/15/2024 1:43:56 AM	SAM	8/15/2024 1:46:04 AM	Peak Integrated by Software incorrectly
VSTDCCC050	VN083318.D	Allyl chloride	MMDadoda	8/15/2024 1:43:56 AM	SAM	8/15/2024 1:46:04 AM	Peak Integrated by Software incorrectly

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 # VN081224

Review By	John Carlone	Review On	8/13/2024 9:40:53 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/13/2024 6:55:20 PM		
SubDirectory	VN081224	HP Acquire Method		HP Processing Method	82N080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129638,VP129662
Initial Calibration Stds	
CCC	VP129639,VP129640,VP129663,VP129664
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN083224.D	12 Aug 2024 08:44	JC\MD	Ok
2	VSTDCCC050	VN083225.D	12 Aug 2024 09:48	JC\MD	Ok,M
3	VN0812MBL01	VN083226.D	12 Aug 2024 10:22	JC\MD	Ok
4	VN0812WBL01	VN083227.D	12 Aug 2024 10:46	JC\MD	Ok
5	VN0812WBS01	VN083228.D	12 Aug 2024 11:10	JC\MD	Ok,M
6	VN0812WBSD01	VN083229.D	12 Aug 2024 11:46	JC\MD	Ok,M
7	P3476-03	VN083230.D	12 Aug 2024 12:10	JC\MD	Ok
8	P3506-02	VN083231.D	12 Aug 2024 12:35	JC\MD	Ok
9	P3530-01	VN083232.D	12 Aug 2024 12:59	JC\MD	Ok
10	P3545-01	VN083233.D	12 Aug 2024 13:23	JC\MD	Ok
11	PB162664ZHE#01	VN083234.D	12 Aug 2024 13:47	JC\MD	Ok
12	PB162664ZHE#02	VN083235.D	12 Aug 2024 14:11	JC\MD	Ok
13	PB162664ZHE#03	VN083236.D	12 Aug 2024 14:35	JC\MD	Ok
14	PB162664ZHE#04	VN083237.D	12 Aug 2024 14:59	JC\MD	Ok
15	PB162664ZHE#05	VN083238.D	12 Aug 2024 15:23	JC\MD	Ok
16	PB162591TB	VN083239.D	12 Aug 2024 15:48	JC\MD	Ok
17	P3530-02	VN083240.D	12 Aug 2024 16:12	JC\MD	Ok
18	P3530-03	VN083241.D	12 Aug 2024 16:36	JC\MD	Ok
19	P3426-01	VN083242.D	12 Aug 2024 17:00	JC\MD	Ok
20	P3426-02	VN083243.D	12 Aug 2024 17:24	JC\MD	Ok
21	P3429-01	VN083244.D	12 Aug 2024 17:49	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 # VN081324

Review By	Mahesh Dadoda	Review On	8/14/2024 5:15:42 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/14/2024 5:25:48 AM		
SubDirectory	VN081324	HP Acquire Method		HP Processing Method	82N080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129669,VP129708
Initial Calibration Stds	
CCC	VP129670,VP129671,VP129701,VP129702,VP129703,VP129704,VP129709,VP129710
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN083245.D	13 Aug 2024 09:54	JC\MD	Ok
2	VSTDCCC050	VN083246.D	13 Aug 2024 10:18	JC\MD	Ok,M
3	VN0813MBL01	VN083247.D	13 Aug 2024 10:52	JC\MD	Ok
4	VN0813WBL01	VN083248.D	13 Aug 2024 11:16	JC\MD	Ok
5	VN0813WBS01	VN083249.D	13 Aug 2024 11:40	JC\MD	Ok,M
6	P3429-02	VN083250.D	13 Aug 2024 12:06	JC\MD	Ok
7	P3440-01	VN083251.D	13 Aug 2024 12:30	JC\MD	Ok
8	P3440-02MS	VN083252.D	13 Aug 2024 12:55	JC\MD	Ok,M
9	P3440-03MSD	VN083253.D	13 Aug 2024 13:19	JC\MD	Ok,M
10	VN0813MBS01	VN083254.D	13 Aug 2024 13:43	JC\MD	Ok,M
11	P3393-20DL2	VN083255.D	13 Aug 2024 14:07	JC\MD	Ok
12	P3429-04	VN083256.D	13 Aug 2024 14:31	JC\MD	Ok
13	P3390-07 0.2PPB	VN083257.D	13 Aug 2024 14:55	JC\MD	Ok,M
14	P3390-07 0.5PPB	VN083258.D	13 Aug 2024 15:19	JC\MD	Ok,M
15	P3390-07 0.75PPB	VN083259.D	13 Aug 2024 15:43	JC\MD	Ok,M
16	P3390-07 2.5PPB	VN083260.D	13 Aug 2024 16:07	JC\MD	Ok,M
17	P3440-04	VN083261.D	13 Aug 2024 16:31	JC\MD	Ok
18	P3440-05	VN083262.D	13 Aug 2024 16:56	JC\MD	Ok
19	P3543-02	VN083263.D	13 Aug 2024 17:20	JC\MD	Ok
20	P3548-05	VN083264.D	13 Aug 2024 17:44	JC\MD	Ok
21	P3548-08	VN083265.D	13 Aug 2024 18:08	JC\MD	Ok

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 # VN081324

Review By	Mahesh Dadoda	Review On	8/14/2024 5:15:42 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/14/2024 5:25:48 AM		
SubDirectory	VN081324	HP Acquire Method		HP Processing Method	82N080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129669,VP129708
Initial Calibration Stds	
CCC	VP129670,VP129671,VP129701,VP129702,VP129703,VP129704,VP129709,VP129710
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P3548-11	VN083266.D	13 Aug 2024 18:33	JC\MD	Ok
23	P3548-14	VN083267.D	13 Aug 2024 18:57	JC\MD	Ok
24	PB162644TB	VN083268.D	13 Aug 2024 19:21	JC\MD	Ok
25	P3429-03	VN083269.D	13 Aug 2024 19:45	JC\MD	Dilution
26	PB162587TB	VN083270.D	13 Aug 2024 20:10	JC\MD	Ok
27	VSTDCCC050	VN083271.D	13 Aug 2024 20:34	JC\MD	Ok,M
28	BFB	VN083272.D	14 Aug 2024 01:50	JC\MD	Ok
29	VSTDCCC050	VN083273.D	14 Aug 2024 02:14	JC\MD	Ok,M
30	VN0813WBL02	VN083274.D	14 Aug 2024 03:22	JC\MD	Ok
31	VN0813WBS02	VN083275.D	14 Aug 2024 03:46	JC\MD	Not Ok
32	VN0813WBS03	VN083276.D	14 Aug 2024 04:10	JC\MD	Ok,M
33	P3450-01	VN083277.D	14 Aug 2024 04:52	JC\MD	Ok
34	P3450-02	VN083278.D	14 Aug 2024 05:16	JC\MD	Ok
35	P3450-03	VN083279.D	14 Aug 2024 05:40	JC\MD	Ok
36	P3450-04	VN083280.D	14 Aug 2024 06:04	JC\MD	Ok
37	P3467-01	VN083281.D	14 Aug 2024 06:28	JC\MD	Ok
38	P3467-02	VN083282.D	14 Aug 2024 06:52	JC\MD	Ok
39	P3451-01	VN083283.D	14 Aug 2024 07:16	JC\MD	Ok
40	P3451-02	VN083284.D	14 Aug 2024 07:40	JC\MD	Ok
41	P3534-05	VN083285.D	14 Aug 2024 08:04	JC\MD	Ok
42	P3534-06	VN083286.D	14 Aug 2024 08:28	JC\MD	Ok
43	P3466-01	VN083287.D	14 Aug 2024 08:52	JC\MD	Not Ok
44	P3466-04	VN083288.D	14 Aug 2024 09:16	JC\MD	Not 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 # VN081324

Review By	Mahesh Dadoda	Review On	8/14/2024 5:15:42 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/14/2024 5:25:48 AM		
SubDirectory	VN081324	HP Acquire Method		HP Processing Method	82N080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129669,VP129708
Initial Calibration Stds	
CCC	VP129670,VP129671,VP129701,VP129702,VP129703,VP129704,VP129709,VP129710
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	P3466-05	VN083289.D	14 Aug 2024 09:40	JC\MD	Not Ok
46	P3466-06	VN083290.D	14 Aug 2024 10:04	JC\MD	Not Ok
47	P3466-02MS	VN083291.D	14 Aug 2024 10:28	JC\MD	Not Ok
48	P3466-03MSD	VN083292.D	14 Aug 2024 10:52	JC\MD	Not Ok
49	VSTDCCC050	VN083293.D	14 Aug 2024 11:16	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 # VN081424

Review By	Mahesh Dadoda	Review On	8/15/2024 1:44:31 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/15/2024 1:46:18 AM		
SubDirectory	VN081424	HP Acquire Method		HP Processing Method	82N080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129723
Initial Calibration Stds	
CCC	VP129724,VP129725,VP129726,VP129727,VP129728,VP129729,VP129730,VP129731
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN083294.D	14 Aug 2024 12:07	JC\MD	Ok
2	VSTDCCC050	VN083295.D	14 Aug 2024 12:41	JC\MD	Ok,M
3	VN0814MBL01	VN083296.D	14 Aug 2024 13:16	JC\MD	Not Ok
4	VN0814WBL01	VN083297.D	14 Aug 2024 13:39	JC\MD	Ok
5	VN0814WBS01	VN083298.D	14 Aug 2024 14:03	JC\MD	Ok,M
6	P3429-03DL	VN083299.D	14 Aug 2024 14:27	JC\MD	Ok
7	VN0814WBSD01	VN083300.D	14 Aug 2024 14:51	JC\MD	Ok,M
8	P3390-09 0.2PPB	VN083301.D	14 Aug 2024 15:15	JC\MD	Not Ok
9	P3390-09 0.5PPB	VN083302.D	14 Aug 2024 15:40	JC\MD	Ok,M
10	P3390-09 0.75PPB	VN083303.D	14 Aug 2024 16:04	JC\MD	Ok,M
11	P3390-09 2.5PPB	VN083304.D	14 Aug 2024 16:28	JC\MD	Ok,M
12	P3390-08 1.0PPB	VN083305.D	14 Aug 2024 16:52	JC\MD	Ok,M
13	P3390-08 5.0PPB	VN083306.D	14 Aug 2024 17:16	JC\MD	Ok,M
14	P3596-03	VN083307.D	14 Aug 2024 17:41	JC\MD	Ok
15	P3601-03	VN083308.D	14 Aug 2024 18:05	JC\MD	Ok
16	P3596-01	VN083309.D	14 Aug 2024 18:29	JC\MD	Ok
17	P3596-02	VN083310.D	14 Aug 2024 18:54	JC\MD	Ok
18	P3601-01	VN083311.D	14 Aug 2024 19:18	JC\MD	Ok
19	P3601-02	VN083312.D	14 Aug 2024 19:42	JC\MD	Ok
20	PB162684TB	VN083313.D	14 Aug 2024 20:07	JC\MD	Ok
21	P3574-01	VN083314.D	14 Aug 2024 20:31	JC\MD	Ok,M

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 # VN081424

Review By	Mahesh Dadoda	Review On	8/15/2024 1:44:31 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/15/2024 1:46:18 AM		
SubDirectory	VN081424	HP Acquire Method		HP Processing Method	82N080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129723
Initial Calibration Stds	
CCC	VP129724,VP129725,VP129726,VP129727,VP129728,VP129729,VP129730,VP129731
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P3609-03	VN083315.D	14 Aug 2024 20:55	JC\MD	Ok
23	P3609-01	VN083316.D	14 Aug 2024 21:19	JC\MD	Ok
24	P3609-02	VN083317.D	14 Aug 2024 21:43	JC\MD	Ok
25	VSTDCCC050	VN083318.D	14 Aug 2024 22:08	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 # 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

Alliance TECHNICAL GROUP
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 # VN081224

Review By	John Carlone	Review On	8/13/2024 9:40:53 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/13/2024 6:55:20 PM		
SubDirectory	VN081224	HP Acquire Method		HP Processing Method	82N080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129638,VP129662
Initial Calibration Stds	
CCC	VP129639,VP129640,VP129663,VP129664
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	VN083224.D	12 Aug 2024 08:44		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN083225.D	12 Aug 2024 09:48	V13516	JC\MD	Ok,M
3	VN0812MBL01	VN0812MBL01	VN083226.D	12 Aug 2024 10:22		JC\MD	Ok
4	VN0812WBL01	VN0812WBL01	VN083227.D	12 Aug 2024 10:46		JC\MD	Ok
5	VN0812WBS01	VN0812WBS01	VN083228.D	12 Aug 2024 11:10	BS Low for com.#87	JC\MD	Ok,M
6	VN0812WBSD01	VN0812WBSD01	VN083229.D	12 Aug 2024 11:46		JC\MD	Ok,M
7	P3476-03	MUL05	VN083230.D	12 Aug 2024 12:10	vial B pH#6.0	JC\MD	Ok
8	P3506-02	RT4534	VN083231.D	12 Aug 2024 12:35	vial B pH#5.0	JC\MD	Ok
9	P3530-01	WC-S-04-202408	VN083232.D	12 Aug 2024 12:59	vial B pH#5.0	JC\MD	Ok
10	P3545-01	BUR-1295	VN083233.D	12 Aug 2024 13:23	vial A pH<2	JC\MD	Ok
11	PB162664ZHE#01	PB162664ZHE#01	VN083234.D	12 Aug 2024 13:47		JC\MD	Ok
12	PB162664ZHE#02	PB162664ZHE#02	VN083235.D	12 Aug 2024 14:11		JC\MD	Ok
13	PB162664ZHE#03	PB162664ZHE#03	VN083236.D	12 Aug 2024 14:35		JC\MD	Ok
14	PB162664ZHE#04	PB162664ZHE#04	VN083237.D	12 Aug 2024 14:59		JC\MD	Ok
15	PB162664ZHE#05	PB162664ZHE#05	VN083238.D	12 Aug 2024 15:23		JC\MD	Ok
16	PB162591TB	PB162591TB	VN083239.D	12 Aug 2024 15:48		JC\MD	Ok
17	P3530-02	WC-A-04-202408	VN083240.D	12 Aug 2024 16:12	vial A pH#5.0	JC\MD	Ok
18	P3530-03	WC-A-05-202408	VN083241.D	12 Aug 2024 16:36	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_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN081224

Review By	John Carlone	Review On	8/13/2024 9:40:53 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/13/2024 6:55:20 PM		
SubDirectory	VN081224	HP Acquire Method		HP Processing Method	82N080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129638,VP129662
Initial Calibration Stds	
CCC	VP129639,VP129640,VP129663,VP129664
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P3426-01	927-K1-WS-073124	VN083242.D	12 Aug 2024 17:00	vial A pH<2	JC\MD	Ok
20	P3426-02	927-K1-WS-073124-FD	VN083243.D	12 Aug 2024 17:24	vial A pH<2	JC\MD	Ok
21	P3429-01	926-K1-WS-073124	VN083244.D	12 Aug 2024 17:49	vial B pH<2	JC\MD	Ok

M : Manual Integration

Alliance TECHNICAL GROUP
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 # VN081324

Review By	Mahesh Dadoda	Review On	8/14/2024 5:15:42 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/14/2024 5:25:48 AM		
SubDirectory	VN081324	HP Acquire Method		HP Processing Method	82N080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129669,VP129708
Initial Calibration Stds	
CCC	VP129670,VP129671,VP129701,VP129702,VP129703,VP129704,VP129709,VP129710
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	VN083245.D	13 Aug 2024 09:54		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN083246.D	13 Aug 2024 10:18	V13516	JC\MD	Ok,M
3	VN0813MBL01	VN0813MBL01	VN083247.D	13 Aug 2024 10:52		JC\MD	Ok
4	VN0813WBL01	VN0813WBL01	VN083248.D	13 Aug 2024 11:16		JC\MD	Ok
5	VN0813WBS01	VN0813WBS01	VN083249.D	13 Aug 2024 11:40		JC\MD	Ok,M
6	P3429-02	931-K1-WS-073124	VN083250.D	13 Aug 2024 12:06	vial B pH<2	JC\MD	Ok
7	P3440-01	923-K1-WS-080124	VN083251.D	13 Aug 2024 12:30	vial A pH<2	JC\MD	Ok
8	P3440-02MS	923-K1-WS-080124MS	VN083252.D	13 Aug 2024 12:55	vial A pH<2	JC\MD	Ok,M
9	P3440-03MSD	923-K1-WS-080124MS	VN083253.D	13 Aug 2024 13:19	vial A pH<2	JC\MD	Ok,M
10	VN0813MBS01	VN0813MBS01	VN083254.D	13 Aug 2024 13:43		JC\MD	Ok,M
11	P3393-20DL2	S-849-GI-SO-13.5-14-0	VN083255.D	13 Aug 2024 14:07		JC\MD	Ok
12	P3429-04	TB-01-073124	VN083256.D	13 Aug 2024 14:31	vial A pH<2 TB	JC\MD	Ok
13	P3390-07 0.2PPB	LOD-MDL-WATER-01-(	VN083257.D	13 Aug 2024 14:55		JC\MD	Ok,M
14	P3390-07 0.5PPB	LOD-MDL-WATER-01-(	VN083258.D	13 Aug 2024 15:19		JC\MD	Ok,M
15	P3390-07 0.75PPB	LOD-MDL-WATER-01-(	VN083259.D	13 Aug 2024 15:43		JC\MD	Ok,M
16	P3390-07 2.5PPB	LOD-MDL-WATER-01-(	VN083260.D	13 Aug 2024 16:07		JC\MD	Ok,M
17	P3440-04	922-K1-WS-080124	VN083261.D	13 Aug 2024 16:31	vial A pH<2	JC\MD	Ok
18	P3440-05	TB-01-080124	VN083262.D	13 Aug 2024 16:56	vial A pH<2 TB	JC\MD	Ok

Alliance TECHNICAL GROUP
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 # VN081324

Review By	Mahesh Dadoda	Review On	8/14/2024 5:15:42 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/14/2024 5:25:48 AM		
SubDirectory	VN081324	HP Acquire Method		HP Processing Method	82N080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129669,VP129708
Initial Calibration Stds	
CCC	VP129670,VP129671,VP129701,VP129702,VP129703,VP129704,VP129709,VP129710
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P3543-02	ARS20-0019	VN083263.D	13 Aug 2024 17:20	vial A pH#5.0	JC\MD	Ok
20	P3548-05	RBR200036	VN083264.D	13 Aug 2024 17:44	vial A pH#5.0	JC\MD	Ok
21	P3548-08	343	VN083265.D	13 Aug 2024 18:08	vial A pH#5.0	JC\MD	Ok
22	P3548-11	289	VN083266.D	13 Aug 2024 18:33	vial A pH#5.0	JC\MD	Ok
23	P3548-14	IN-SITU-SOIL	VN083267.D	13 Aug 2024 18:57	vial A pH#5.0	JC\MD	Ok
24	PB162644TB	PB162644TB	VN083268.D	13 Aug 2024 19:21		JC\MD	Ok
25	P3429-03	925-K1-WS-073124	VN083269.D	13 Aug 2024 19:45	vial A pH<2 Need 20X	JC\MD	Dilution
26	PB162587TB	PB162587TB	VN083270.D	13 Aug 2024 20:10		JC\MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VN083271.D	13 Aug 2024 20:34		JC\MD	Ok,M
28	BFB	BFB	VN083272.D	14 Aug 2024 01:50		JC\MD	Ok
29	VSTDCCC050	VSTDCCC050	VN083273.D	14 Aug 2024 02:14		JC\MD	Ok,M
30	VN0813WBL02	VN0813WBL02	VN083274.D	14 Aug 2024 03:22		JC\MD	Ok
31	VN0813WBS02	VN0813WBS02	VN083275.D	14 Aug 2024 03:46	Surrogate Fail	JC\MD	Not Ok
32	VN0813WBS03	VN0813WBS03	VN083276.D	14 Aug 2024 04:10		JC\MD	Ok,M
33	P3450-01	921-J-WP0-0.25-08012	VN083277.D	14 Aug 2024 04:52	vial A pH<2	JC\MD	Ok
34	P3450-02	923-K1-WP0-0.25-0801	VN083278.D	14 Aug 2024 05:16	vial A pH<2	JC\MD	Ok
35	P3450-03	922-K1-WP0-0.25-0801	VN083279.D	14 Aug 2024 05:40	vial A pH<2	JC\MD	Ok
36	P3450-04	TB-02-080124	VN083280.D	14 Aug 2024 06:04	vial A pH<2 TB	JC\MD	Ok
37	P3467-01	919-J-WS-080224	VN083281.D	14 Aug 2024 06:28	vial A pH<2	JC\MD	Ok

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 # VN081324

Review By	Mahesh Dadoda	Review On	8/14/2024 5:15:42 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/14/2024 5:25:48 AM		
SubDirectory	VN081324	HP Acquire Method		HP Processing Method	82N080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129669,VP129708
Initial Calibration Stds	
CCC	VP129670,VP129671,VP129701,VP129702,VP129703,VP129704,VP129709,VP129710
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	P3467-02	TB-03-080224	VN083282.D	14 Aug 2024 06:52	vial A pH<2 TB	JC\MD	Ok
39	P3451-01	921-J-WS-080124	VN083283.D	14 Aug 2024 07:16	vial A pH<2	JC\MD	Ok
40	P3451-02	TB-03-080124	VN083284.D	14 Aug 2024 07:40	vial A pH<2 TB	JC\MD	Ok
41	P3534-05	PIPE-BLAST-GRIT(FB)	VN083285.D	14 Aug 2024 08:04	vial A pH<2 FB	JC\MD	Ok
42	P3534-06	HP-IP(FB)	VN083286.D	14 Aug 2024 08:28	vial A pH<2 FB	JC\MD	Ok
43	P3466-01	924-K1-WP0-0.25-0802	VN083287.D	14 Aug 2024 08:52	vial A pH<2 sample canceled	JC\MD	Not Ok
44	P3466-04	932-K1-WP0-0.25-0802	VN083288.D	14 Aug 2024 09:16	vial A pH<2 sample canceled	JC\MD	Not Ok
45	P3466-05	919-J-WP0-0.25-08022	VN083289.D	14 Aug 2024 09:40	vial A pH<2 canceled	JC\MD	Not Ok
46	P3466-06	TB-02-080224	VN083290.D	14 Aug 2024 10:04	vial A pH<2 canceled	JC\MD	Not Ok
47	P3466-02MS	924-K1-WP0-0.25-0802	VN083291.D	14 Aug 2024 10:28	vial A pH<2 canceled	JC\MD	Not Ok
48	P3466-03MSD	924-K1-WP0-0.25-0802	VN083292.D	14 Aug 2024 10:52	vial A pH<2 canceled	JC\MD	Not Ok
49	VSTDCCC050	VSTDCCC050EC	VN083293.D	14 Aug 2024 11:16		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 # VN081424

Review By	Mahesh Dadoda	Review On	8/15/2024 1:44:31 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/15/2024 1:46:18 AM		
SubDirectory	VN081424	HP Acquire Method		HP Processing Method	82N080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129723
Initial Calibration Stds	
CCC	VP129724,VP129725,VP129726,VP129727,VP129728,VP129729,VP129730,VP129731
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	VN083294.D	14 Aug 2024 12:07		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN083295.D	14 Aug 2024 12:41		JC\MD	Ok,M
3	VN0814MBL01	VN0814MBL01	VN083296.D	14 Aug 2024 13:16	RT Differ;Not Required	JC\MD	Not Ok
4	VN0814WBL01	VN0814WBL01	VN083297.D	14 Aug 2024 13:39		JC\MD	Ok
5	VN0814WBS01	VN0814WBS01	VN083298.D	14 Aug 2024 14:03		JC\MD	Ok,M
6	P3429-03DL	925-K1-WS-073124DL	VN083299.D	14 Aug 2024 14:27		JC\MD	Ok
7	VN0814WBSD01	VN0814WBSD01	VN083300.D	14 Aug 2024 14:51		JC\MD	Ok,M
8	P3390-09 0.2PPB	MDL-WATER-03-QT3-2	VN083301.D	14 Aug 2024 15:15	Recovery low	JC\MD	Not Ok
9	P3390-09 0.5PPB	MDL-WATER-03-QT3-2	VN083302.D	14 Aug 2024 15:40		JC\MD	Ok,M
10	P3390-09 0.75PPB	MDL-WATER-03-QT3-2	VN083303.D	14 Aug 2024 16:04		JC\MD	Ok,M
11	P3390-09 2.5PPB	MDL-WATER-03-QT3-2	VN083304.D	14 Aug 2024 16:28		JC\MD	Ok,M
12	P3390-08 1.0PPB	LOQ-WATER-02-QT3-2	VN083305.D	14 Aug 2024 16:52		JC\MD	Ok,M
13	P3390-08 5.0PPB	LOQ-WATER-02-QT3-2	VN083306.D	14 Aug 2024 17:16		JC\MD	Ok,M
14	P3596-03	TB-01-081324	VN083307.D	14 Aug 2024 17:41	TB	JC\MD	Ok
15	P3601-03	TB-02-081324	VN083308.D	14 Aug 2024 18:05	TB	JC\MD	Ok
16	P3596-01	918-J-WS-081324	VN083309.D	14 Aug 2024 18:29		JC\MD	Ok
17	P3596-02	918-J-WS-081324-FD	VN083310.D	14 Aug 2024 18:54		JC\MD	Ok
18	P3601-01	918-J-WPO-0.25-08132	VN083311.D	14 Aug 2024 19:18		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 # VN081424

Review By	Mahesh Dadoda	Review On	8/15/2024 1:44:31 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/15/2024 1:46:18 AM		
SubDirectory	VN081424	HP Acquire Method		HP Processing Method	82N080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129723
Initial Calibration Stds	
CCC	VP129724,VP129725,VP129726,VP129727,VP129728,VP129729,VP129730,VP129731
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P3601-02	918-J-WPO-0.25-08132	VN083312.D	14 Aug 2024 19:42		JC\MD	Ok
20	PB162684TB	PB162684TB	VN083313.D	14 Aug 2024 20:07		JC\MD	Ok
21	P3574-01	WC-S-06-202408	VN083314.D	14 Aug 2024 20:31		JC\MD	Ok,M
22	P3609-03	TB-01-081424	VN083315.D	14 Aug 2024 20:55	TB	JC\MD	Ok
23	P3609-01	915-J-WS-081424	VN083316.D	14 Aug 2024 21:19		JC\MD	Ok
24	P3609-02	920-J-WS-081424	VN083317.D	14 Aug 2024 21:43		JC\MD	Ok
25	VSTDCCC050	VSTDCCC050EC	VN083318.D	14 Aug 2024 22:08		JC\MD	Ok,M

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 : P3429

Test : VOCMS Group6

Prepbatch ID :

Sequence ID/Qc Batch ID: VN081224,vn081324,VN081424,

Standard ID :
VP126666,VP128290,VP128298,VP128523,VP128632,VP128634,VP128762,VP128764,VP128765,VP128766,VP128768,
VP128769,VP129196,VP129228,VP129230,VP129231,VP129232,VP129235,VP129236,VP129238,VP129517,VP129519,
VP129520,VP129638,VP129639,VP129640,VP129662,VP129663,VP129664,VP129669,VP129670,VP129671,VP129701,
VP129702,VP129703,VP129704,VP129708,VP129709,VP129710,VP129723,VP129724,VP129725,VP129726,VP129727,
VP129728,VP129729,VP129730,VP129731,

Chemical ID :
V12794,V12798,V12966,V13390,V13444,V13448,V13462,V13463,V13539,V13581,V13707,V13708,V13800,V13801,V1381
2,V13952,V13953,V13959,V14016,V14017,V14093,V14103,V14104,V14123,V14141,V14142,V14143,V14147,V14148,V14
169,V14170,V14177,V14202,V14207,V14219,V14288,V14411,V14412,V14413,V14414,V14415,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
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

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
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
251	8260 Internal STD & Surrogate Mix, 250PPM	VP128523	06/10/2024	12/10/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/22/2024

FROM 0.25000ml of V13707 + 0.25000ml of V14288 + 24.50000ml of V14142 = 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
1817	8260 Working Std(2-CVE)-SS, 800ppm	VP128632	06/25/2024	12/11/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/02/2024

FROM 0.80000ml of V13581 + 9.20000ml of V14147 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1818	8260 Working Std(2-CVE)-SS, 50ppm	VP128634	06/25/2024	12/11/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/02/2024

FROM 4.68750ml of V14147 + 0.31250ml of VP128632 = Final Quantity: 5.000 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
1813	8260 Working Std(2-CVE)-50ppm	VP128765	07/01/2024	12/11/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/02/2024

FROM 9.37500ml of V14147 + 0.62500ml of VP128762 = Final Quantity: 10.000 ml

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

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
253	8260 Working STD (BCM)-First source, 20PPM	VP128768	07/01/2024	12/11/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/02/2024

FROM 0.10000ml of V13463 + 9.90000ml of V14147 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
254	8260 Working STD (BCM)-First source, 10PPM	VP128769	07/01/2024	12/11/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/02/2024

FROM 0.05000ml of V13463 + 9.95000ml of V14147 = 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
825	8260 Working STD (BCM)-Second source, 10PPM	VP129196	07/22/2024	01/22/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/26/2024

FROM 0.10000ml of V12966 + 9.90000ml of V14143 = Final Quantity: 10.000 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
181	8260 Working STD (Acrolein)-First source, 50PPM	VP129231	07/25/2024	08/24/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/30/2024

FROM 9.37500ml of V14143 + 0.62500ml of VP129228 = 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
263	8260 Working STD (Acrolein)-Second source, 800PPM	VP129232	07/25/2024	08/23/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/30/2024

FROM 0.60000ml of V14414 + 1.00000ml of V14415 + 8.40000ml of V14143 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
826	8260 Working STD (Acrolein)-Second source, 50PPM	VP129235	07/25/2024	08/23/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/30/2024

FROM 4.68750ml of V14143 + 0.31250ml of VP129232 = Final Quantity: 5.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
259	8260 Calibration Working STD Mix-Second source, 160PPM	VP129236	07/22/2024	08/31/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/30/2024

FROM 0.16000ml of V13448 + 0.80000ml of V13812 + 0.80000ml of V13959 + 0.80000ml of V14093 + 0.80000ml of V14123 + 0.80000ml of V14177 + 1.60000ml of V13539 + 4.24000ml of V14143 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
820	8260 Calibration Working STD Mix-Second source, 10PPM	VP129238	07/22/2024	08/31/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/30/2024

FROM 4.68750ml of V14143 + 0.31250ml of VP129236 = Final Quantity: 5.000 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
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

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

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
246	8260 Calibration Working STD Mix-First source, 10PPM	VP129520	08/05/2024	09/14/2024	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/08/2024

FROM 9.37500ml of V14143 + 0.62500ml of VP129517 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP129638	08/12/2024	08/13/2024	John Carlone	None	None	Mahesh Dadoda 08/14/2024

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	VP129639	08/12/2024	08/13/2024	John Carlone	None	None	Mahesh Dadoda 08/14/2024

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	VP129640	08/12/2024	08/13/2024	John Carlone	None	None	Mahesh Dadoda 08/14/2024

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	VP129662	08/12/2024	08/13/2024	John Carlone	None	None	Mahesh Dadoda 08/14/2024

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	VP129663	08/12/2024	08/13/2024	John Carlone	None	None	Mahesh Dadoda 08/14/2024

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	VP129664	08/12/2024	08/13/2024	John Carlone	None	None	Mahesh Dadoda 08/14/2024

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	VP129669	08/13/2024	08/14/2024	John Carlone	None	None	Mahesh Dadoda 08/14/2024

FROM 39.98400ml of W3112 + 0.01600ml of VP128290 = Final Quantity: 40.000 ml

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	VP129670	08/13/2024	08/14/2024	John Carlone	None	None	Mahesh Dadoda 08/14/2024

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	VP129671	08/13/2024	08/14/2024	John Carlone	None	None	Mahesh Dadoda 08/14/2024

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
2390	0.2PPB LOD, 8260-Water	VP129701	08/13/2024	08/14/2024	John Carlone	None	None	Mahesh Dadoda 08/14/2024

FROM 39.98840ml of W3112 + 0.00080ml of VP128634 + 0.00080ml of VP129196 + 0.00080ml of VP129235 + 0.00080ml of VP129238 + 0.00800ml of VP128523 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
834	0.5 PPB LOD, 8260-WATER	VP129702	08/13/2024	08/14/2024	John Carlone	None	None	Mahesh Dadoda 08/14/2024

FROM 39.98300ml of W3112 + 0.00200ml of VP128634 + 0.00200ml of VP129196 + 0.00200ml of VP129235 + 0.00200ml of VP129238 + 0.00800ml of VP128523 = Final Quantity: 40.000 ml

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
891	0.75 PPB LOD, 8260-WATER	VP129703	08/13/2024	08/14/2024	John Carlone	None	None	Mahesh Dadoda 08/14/2024

FROM 39.97000ml of W3112 + 0.00300ml of VP128634 + 0.00300ml of VP129196 + 0.00300ml of VP129235 + 0.00300ml of VP129238 + 0.00500ml of VP126666 + 0.00800ml of VP128298 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
837	2.5 PPB LOD, 8260-WATER	VP129704	08/13/2024	08/14/2024	John Carlone	None	None	Mahesh Dadoda 08/14/2024

FROM 39.94200ml of W3112 + 0.00800ml of VP128523 + 0.01000ml of VP128634 + 0.01000ml of VP129196 + 0.01000ml of VP129235 + 0.01000ml of VP129238 = Final Quantity: 40.000 ml

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	VP129708	08/13/2024	08/14/2024	John Carlone	None	None	Mahesh Dadoda 08/15/2024

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	VP129709	08/13/2024	08/14/2024	John Carlone	None	None	Mahesh Dadoda 08/15/2024

FROM 39.94450ml of W3112 + 0.00500ml of VP126666 + 0.00500ml of VP128766 + 0.00800ml of VP128298 + 0.01250ml of VP128762 + 0.01250ml of VP129228 + 0.01250ml of VP129517 = Final Quantity: 40.000 ml

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	VP129710	08/13/2024	08/14/2024	John Carlone	None	None	Mahesh Dadoda 08/15/2024

FROM 39.94450ml of W3112 + 0.00500ml of VP126666 + 0.00500ml of VP128766 + 0.00800ml of VP128298 + 0.01250ml of VP128762 + 0.01250ml of VP129228 + 0.01250ml of VP129517 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP129723	08/14/2024	08/15/2024	John Carlone	None	None	Mahesh Dadoda 08/15/2024

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	VP129724	08/14/2024	08/15/2024	John Carlone	None	None	Mahesh Dadoda 08/15/2024

FROM 39.94450ml of W3112 + 0.00500ml of VP126666 + 0.00500ml of VP128766 + 0.00800ml of VP128298 + 0.01250ml of VP128762 + 0.01250ml of VP129228 + 0.01250ml of VP129517 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP129725	08/14/2024	08/15/2024	John Carlone	None	None	Mahesh Dadoda 08/15/2024

FROM 39.94450ml of W3112 + 0.00500ml of VP126666 + 0.00500ml of VP128766 + 0.00800ml of VP128298 + 0.01250ml of VP128762 + 0.01250ml of VP129228 + 0.01250ml of VP129517 = Final Quantity: 40.000 ml

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
2390	0.2PPB LOD, 8260-Water	VP129726	08/14/2024	08/15/2024	John Carlone	None	None	Mahesh Dadoda 08/15/2024

FROM 39.98840ml of W3112 + 0.00080ml of VP128634 + 0.00080ml of VP129196 + 0.00080ml of VP129235 + 0.00080ml of VP129238 + 0.00800ml of VP128523 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2947	0.5 ppb MDL 8260 Water	VP129727	08/14/2024	08/15/2024	John Carlone	None	None	Mahesh Dadoda 08/15/2024

FROM 39.98000ml of W3112 + 0.00100ml of VP128764 + 0.00100ml of VP128768 + 0.00100ml of VP129230 + 0.00100ml of VP129519 + 0.00500ml of VP126666 + 0.00800ml of VP128298 = 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
3585	0.75 PPB MDL 8260 WATER	VP129728	08/14/2024	08/15/2024	John Carlone	None	None	Mahesh Dadoda 08/15/2024

FROM 39.97000ml of W3112 + 0.00300ml of VP128765 + 0.00300ml of VP128769 + 0.00300ml of VP129231 + 0.00300ml of VP129520 + 0.00500ml of VP126666 + 0.00800ml of VP128298 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3786	2.5 PPB 8260 MDL-WATER	VP129729	08/14/2024	08/15/2024	John Carlone	None	None	Mahesh Dadoda 08/15/2024

FROM 39.92000ml of W3112 + 0.00800ml of VP128523 + 0.01000ml of VP128765 + 0.01000ml of VP128769 + 0.01000ml of VP129231 + 0.01000ml of VP129520 = 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
3742	1.0 PPB LOQ 8260 Water	VP129730	08/14/2024	08/15/2024	John Carlone	None	None	Mahesh Dadoda 08/15/2024

FROM 39.98000ml of W3112 + 0.00200ml of VP128764 + 0.00200ml of VP128768 + 0.00200ml of VP129230 + 0.00200ml of VP129519 + 0.00500ml of VP126666 + 0.00800ml of VP128298 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3748	8260 5.0 PPB LOQ/WATER	VP129731	08/14/2024	08/15/2024	John Carlone	None	None	Mahesh Dadoda 08/15/2024

FROM 39.94000ml of W3112 + 0.00500ml of VP126666 + 0.00800ml of VP128298 + 0.01000ml of VP128764 + 0.01000ml of VP128768 + 0.01000ml of VP129230 + 0.01000ml of VP129519 = 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 #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	121321	12/13/2024	06/25/2024 / SAM	03/30/2022 / SAM	V12794

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	121321	12/13/2024	06/25/2024 / SAM	03/30/2022 / SAM	V12798

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	70046 / Bromochloromethane Std. sol/methanol 1000ppm	070122	01/22/2025	07/22/2024 / SAM	07/06/2022 / SAM	V12966

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	12/08/2024	12/08/2023 / SAM	01/13/2023 / SAM	V13390

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0181905	12/14/2024	06/14/2024 / SAM	01/23/2023 / SAM	V13444

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0191703	12/03/2024	06/03/2024 / SAM	01/23/2023 / SAM	V13448

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	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0186767	11/29/2024	05/29/2024 / SAM	01/27/2023 / SAM	V13539

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	111722	12/25/2024	06/25/2024 / SAM	01/30/2023 / SAM	V13581

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0196865	06/10/2025	06/10/2024 / SAM	04/12/2023 / SAM	V13707

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0196865	09/19/2024	03/19/2024 / SAM	04/12/2023 / SAM	V13708

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	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000ug/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, 2000ug/ml, PTM, 1ml	A0194279	12/28/2024	06/28/2024 / SAM	05/31/2023 / SAM	V13801

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000ug/ml, PTM, 1ml	A0197644	11/29/2024	05/29/2024 / SAM	05/31/2023 / SAM	V13812

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0196115	09/30/2024	06/14/2024 / SAM	09/25/2023 / SAM	V13952

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0196115	09/30/2024	06/14/2024 / SAM	09/25/2023 / SAM	V13953

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0199224	12/31/2024	07/22/2024 / SAM	09/25/2023 / SAM	V13959

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.	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	A0205177	11/14/2024	05/14/2024 / SAM	12/22/2023 / SAM	V14093

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 #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	011624	12/03/2024	06/03/2024 / SAM	01/17/2024 / SAM	V14123

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	12/10/2024	06/10/2024 / SAM	02/06/2024 / SAM	V14142

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	01/22/2025	07/22/2024 / SAM	02/06/2024 / SAM	V14143

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	12/11/2024	06/11/2024 / pedro	02/06/2024 / SAM	V14147

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	11/23/2024	05/23/2024 / pedro	02/06/2024 / SAM	V14148

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	12/14/2024	06/14/2024 / SAM	02/20/2024 / SAM	V14169

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.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	12/14/2024	06/14/2024 / SAM	02/20/2024 / SAM	V14170

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021524	12/03/2024	06/03/2024 / SAM	02/20/2024 / SAM	V14177

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	12/25/2024	06/25/2024 / SAM	02/28/2024 / SAM	V14202

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	12/25/2024	06/25/2024 / SAM	02/28/2024 / SAM	V14207

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	12/25/2024	06/25/2024 / SAM	02/28/2024 / SAM	V14219

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	06/10/2025	06/10/2024 / SAM	04/15/2024 / SAM	V14288

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	V14411

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	072424	08/24/2024	07/25/2024 / SAM	07/25/2024 / SAM	V14412

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	072424	08/24/2024	07/25/2024 / SAM	07/25/2024 / SAM	V14413

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	072424	08/24/2024	07/25/2024 / SAM	07/25/2024 / SAM	V14414

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	072424	08/24/2024	07/25/2024 / SAM	07/25/2024 / SAM	V14415

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

12

ANAB ISO 17034 Accredit
AR-1539 Certificate Number
https://Absolutestandards.cc

CERTIFIED WEIGHT REPORT

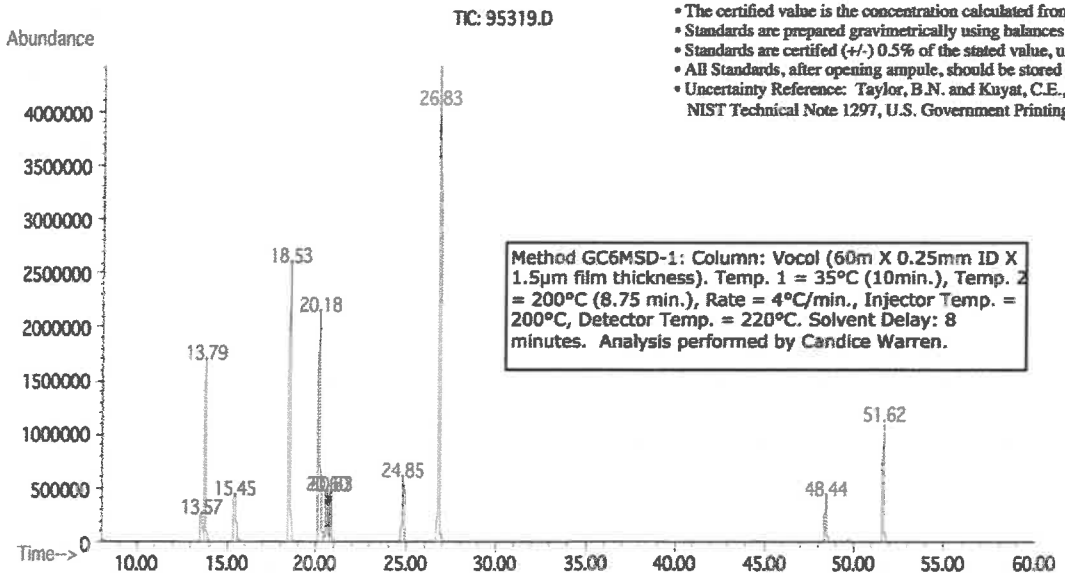
Part Number: 95319
Lot Number: 011624
Description: Revised Additions Mix
11 components
Expiration Date: 011627
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EH471-US

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

Formulated By:	Prashant Chauhan	011624 DATE
Reviewed By:	Pedro L. Rentas	011624 DATE

	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acrylonitrile	7	4718CK	10000	99	0.2	1.01035	1.01080	10004.4	40.6	107-13-1	N/A	orl-rat 78 mg/kg
2.	1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20007	0.20035	2002.8	8.1	109-69-3	N/A	orl-rat 2670mg/kg
3.	Cyclohexane	1023	28930	2000	99	0.2	0.20207	0.20222	2001.5	8.2	110-82-7	300 ppm (1050mg/m3/8H)	orl-rat 12705mg/kg
4.	Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20207	0.20227	2002.0	8.2	108-20-3	500 ppm (2100mg/m3/8H)	orl-rat 8470mg/kg
5.	1,4-Dioxane	373	03853KE	40000	99	0.2	4.04142	4.04213	40007.0	162.5	123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg
6.	Hexachloroethane	199	12604HBV	2000	99	0.2	0.20207	0.20221	2001.4	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	orl-gpg 4970mg/kg
7.	Methylcyclohexane	1627	SHBG0199V	2000	99	0.2	0.20207	0.20230	2002.3	8.2	108-87-2	N/A	orl-mus 2250mg/kg
8.	Methyl tert-butyl ether (MTBE)	209	21880	2000	99	0.2	0.20207	0.20227	2002.0	8.2	1634-04-4	N/A	orl-rat 4g/kg
9.	Propionitrile	349	1395468	20000	99	0.2	2.02071	2.02150	20007.8	81.3	107-12-0	N/A	orl-rat 39mg/kg
10.	Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00125	1.00200	10007.5	40.3	109-99-9	20 ppm (590mg/m3/8H)	orl-rat 1650mg/kg
11.	1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21511	0.21522	2001.0	8.7	488-23-3	N/A	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

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021524
Description: Universal VOA Megamix
69 components
Expiration Date: 021527
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 8UTB

Solvent(s): Methanol Lot# EG359-USQ12

Formulated By: Mario Luis 021524 DATE

Reviewed By: Pedro L. Rentas 021524 DATE

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

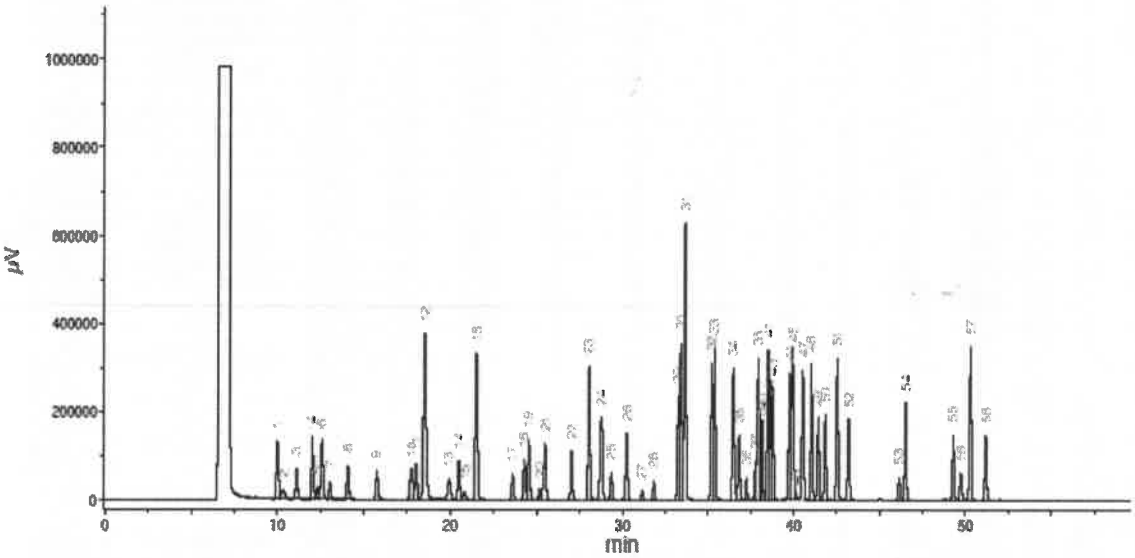
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expended Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20022	2001.5	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	0.20222	2001.5	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	0.20020	2001.3	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	0.21060	2000.2	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	0.20734	2000.3	8.4	110-57-6	N/A	N/A
6.	Diethyl ether	(0153)	IK18CAS000(	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20042	2001.7	8.1	60-29-7	N/A	N/A
7.	Ethyl methacrylate	(0381)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20231	2002.4	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	0.20118	2001.2	8.1	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	0.20209	2000.2	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	0.20042	2001.7	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	0.20030	2000.5	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	0.20230	2002.3	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	0.20570	2001.0	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	0.20415	2000.2	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	0.20210	2000.3	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	2018.6	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	40017.6	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 (45mg/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 149.8mg/kg
45.	Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	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	40005.6	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 1260mg/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 ampule, 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 17, "P95317 L021524 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 10:04:27 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-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	18.49
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.58
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-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	33.66
32	o-Xylene	33.22
33	Styrene	35.39
34	Isopropylbenzene/Bromoform	36.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	43.10
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.48
55	1,2,4-Trichlorobenzene	48.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 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

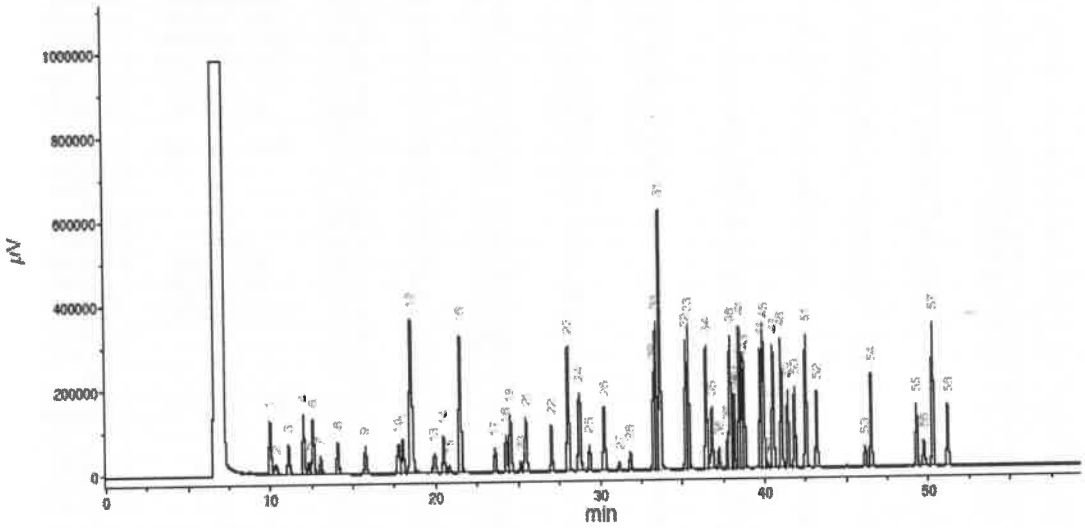
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached 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	40010.6	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 750mg/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	40003.6	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): Methanol **Lot#** 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

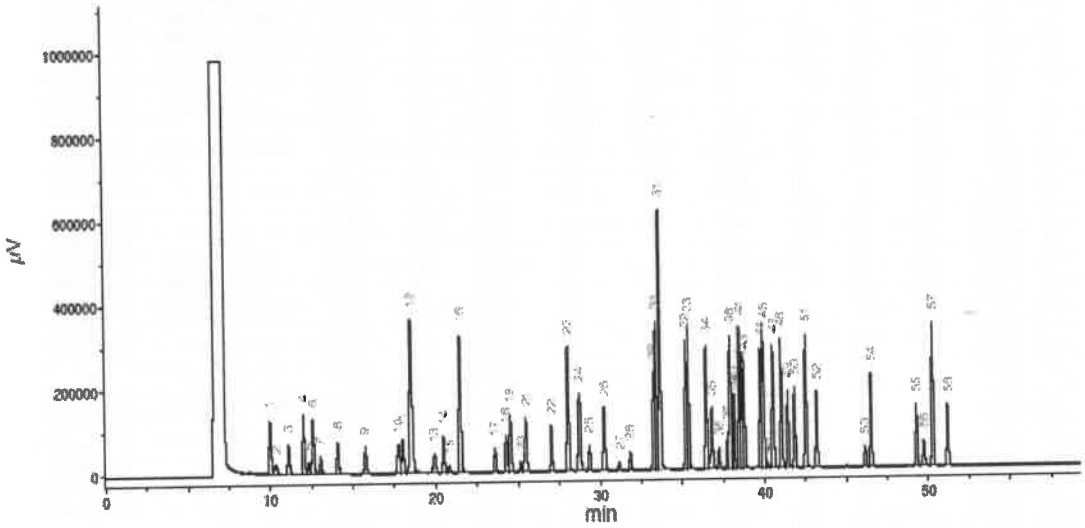
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached 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	40010.6	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 750mg/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	40003.6	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	46.46
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

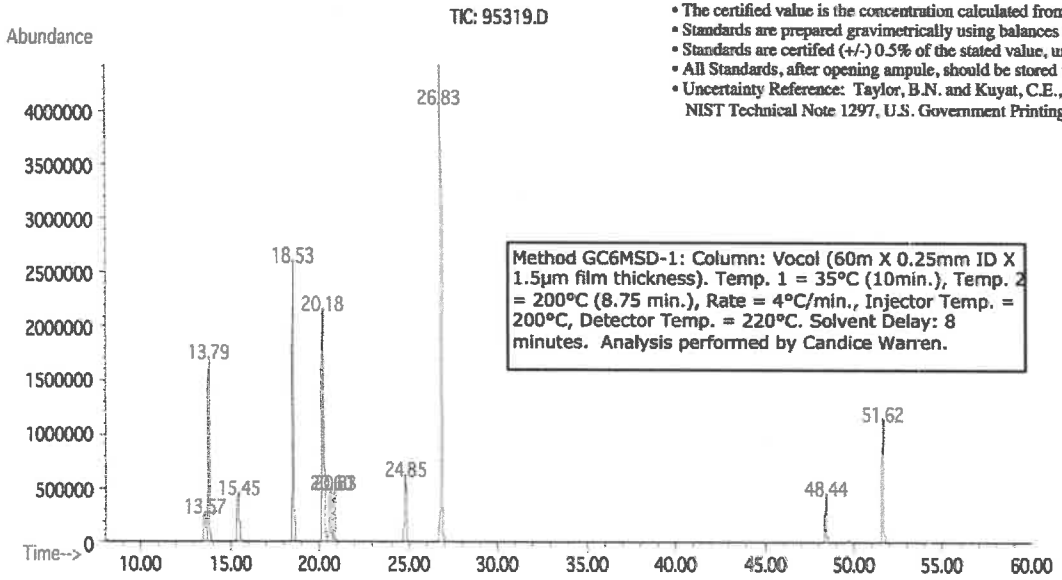
Part Number: 95319
Lot Number: 032922
Description: Revised Additions Mix
11 components
Expiration Date: 032925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.012 Flask Uncertainty

Solvent(s): **Lot#**
Methanol 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

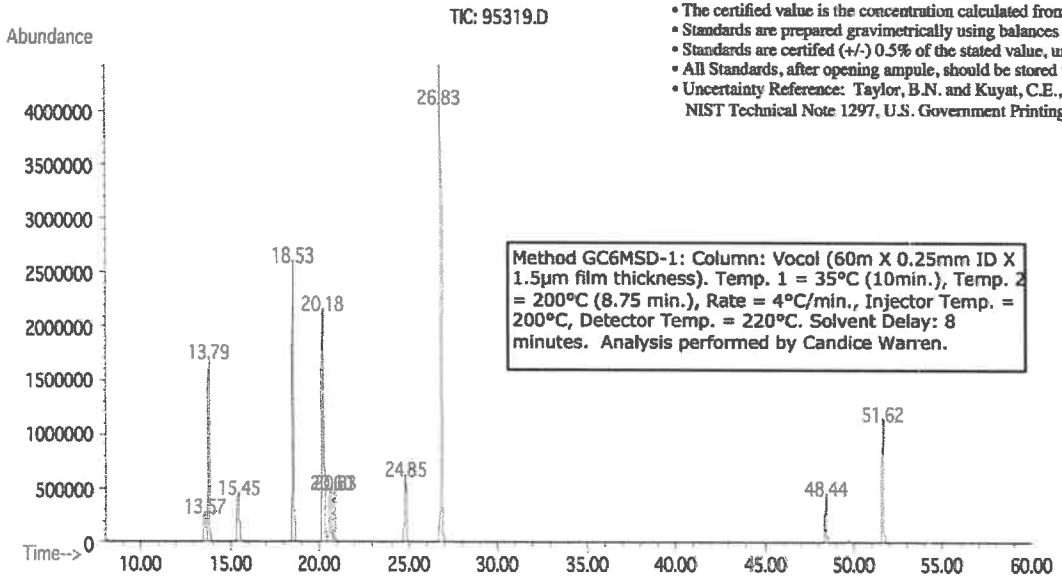
Part Number: 95319
Lot Number: 032922
Description: Revised Additions Mix
11 components
Expiration Date: 032925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EC592-US

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.012 Flask Uncertainty

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

Solvent(s): Water **Lot#** 102422Q

Expiration Date: 082423
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

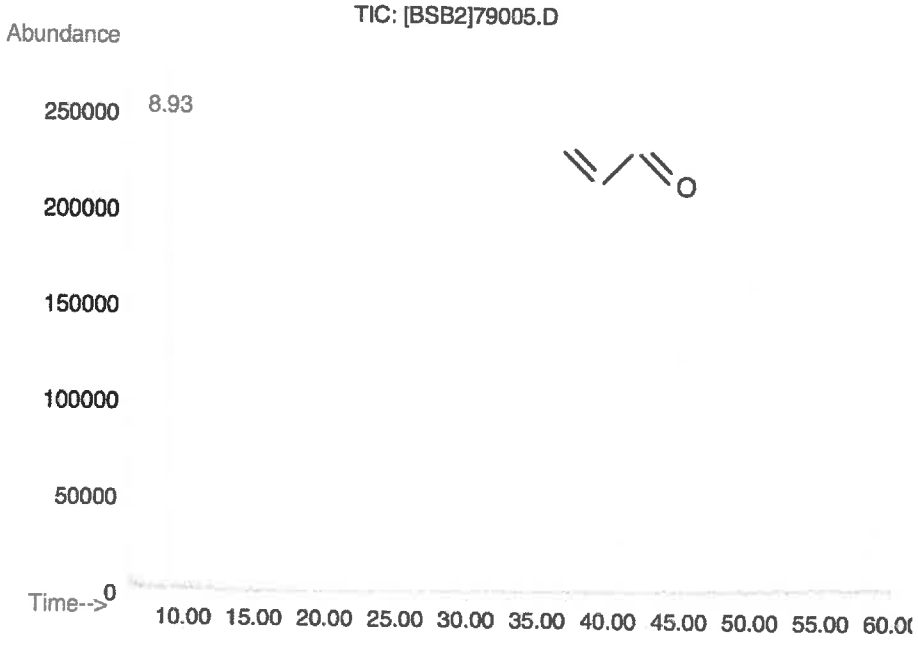
Weight(s) shown below were combined and diluted to (mL): 10.0

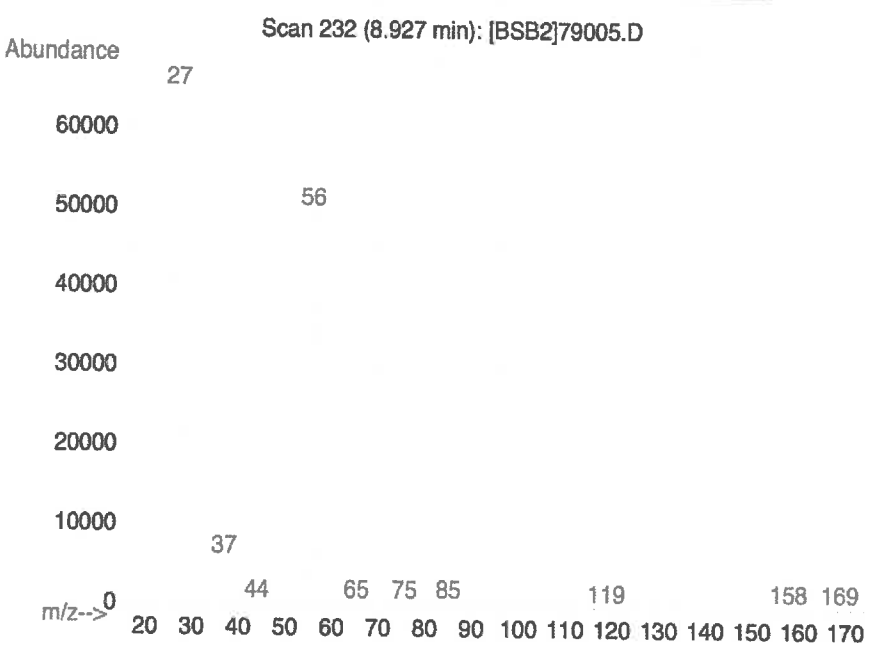
Gabriel Helland 072423
Formulated By: Gabriel Helland DATE

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

Solvent(s): Water **Lot#** 102422Q

Expiration Date: 082423
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

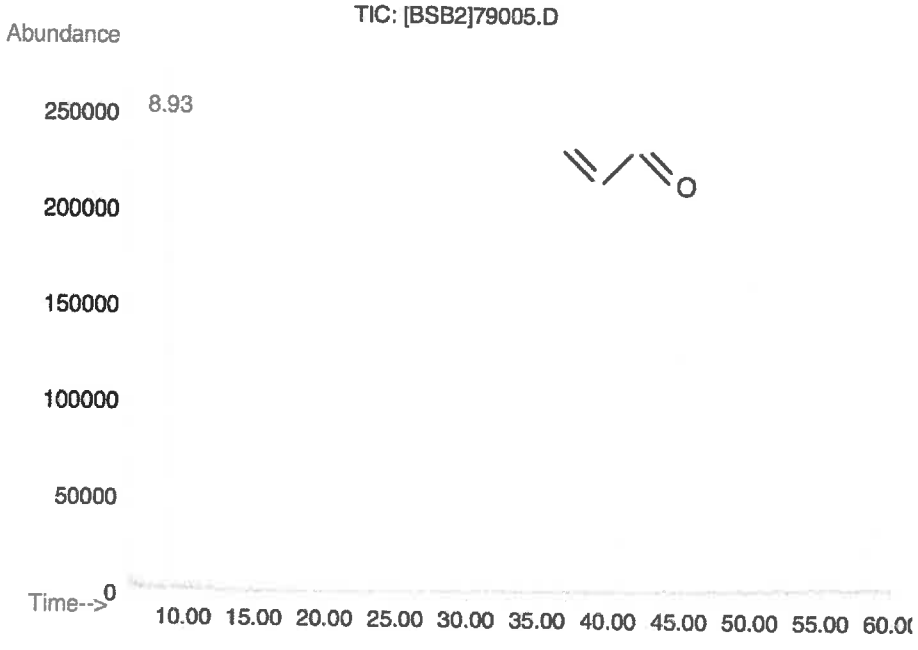
Weight(s) shown below were combined and diluted to (mL): 10.0

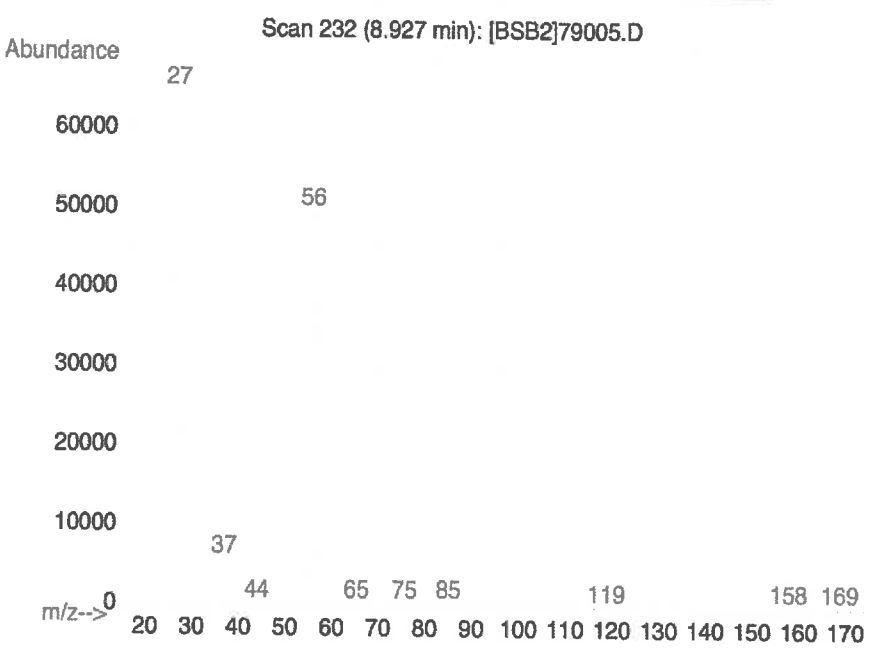
Gabriel Helland 072423
Formulated By: Gabriel Helland DATE

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 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.

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. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		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):	Lot#
Water	102422Q

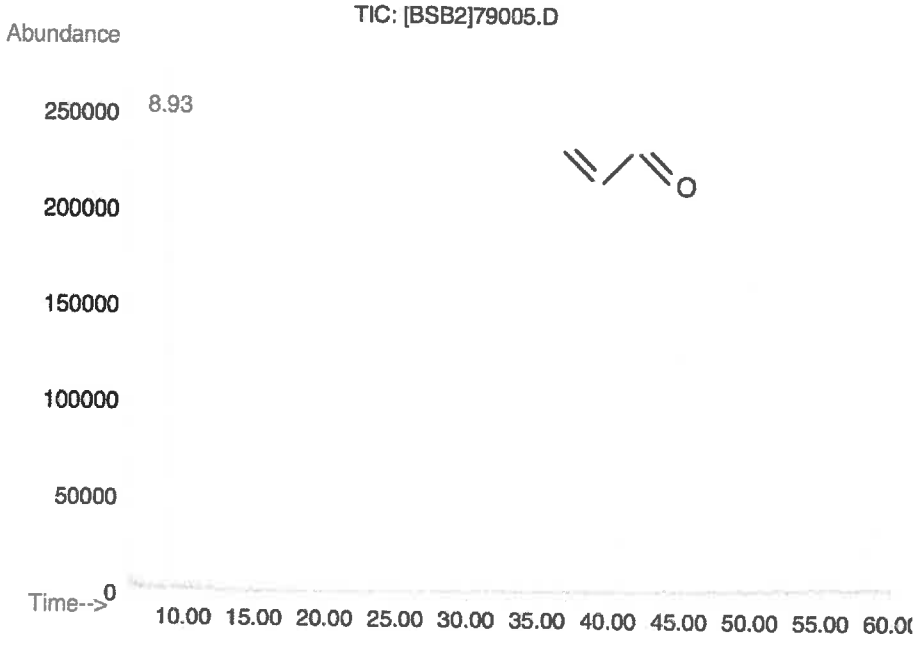
5 Sony

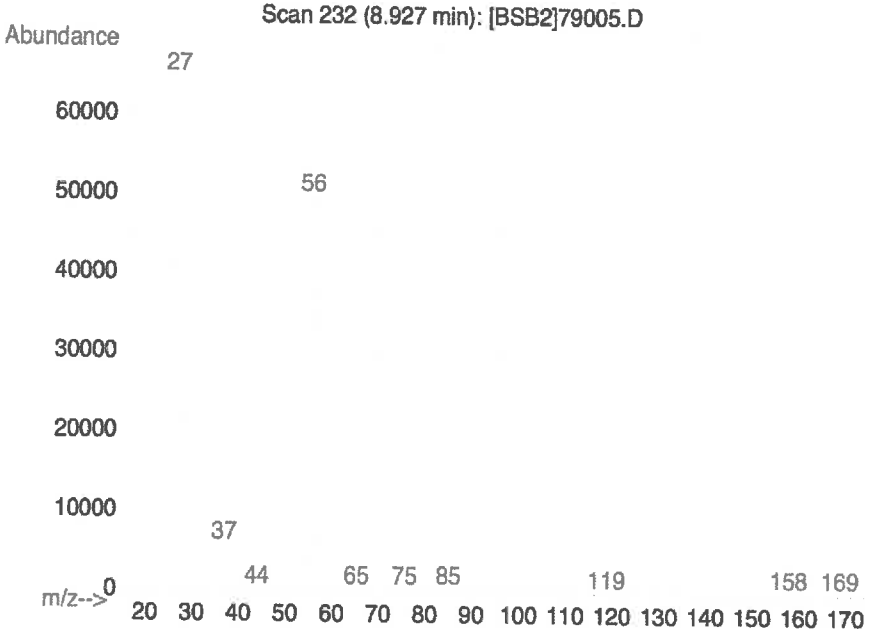
Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

Formulated By: Gabriel Helland	072423 DATE
Reviewed By: Pedro L. Rentas	072423 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. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		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):	Lot#
Water	102422Q

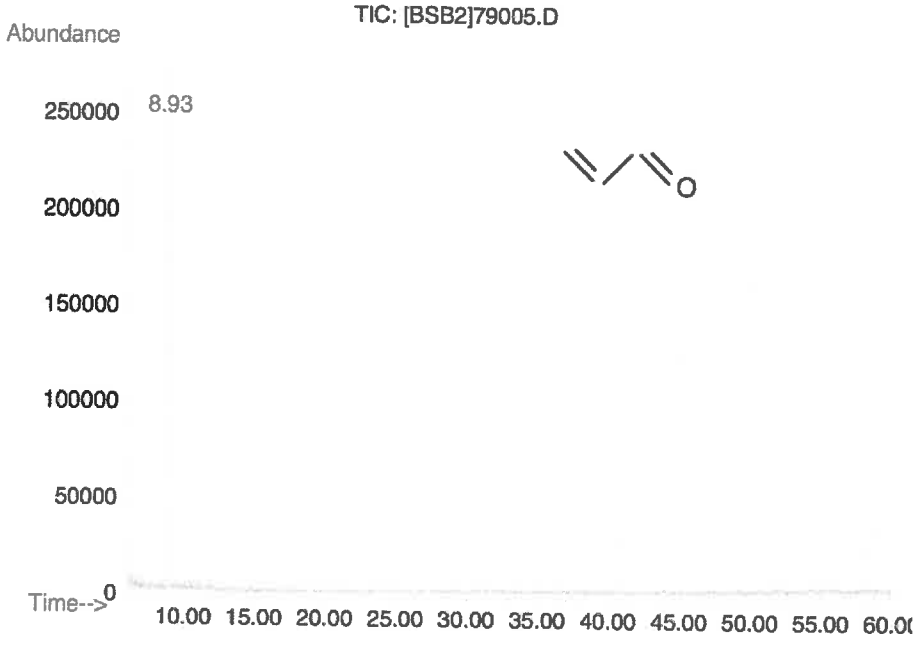
5 Sony

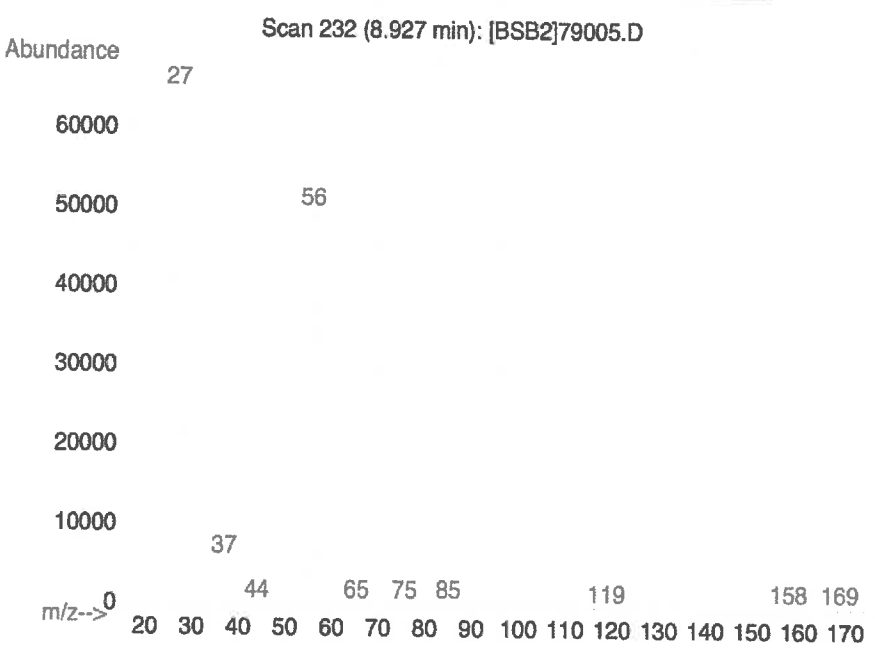
Weight(s) shown below were combined and diluted to (mL): 10.0 — 5E-05 Balance Uncertainty; 0.001 Flask Uncertainty

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. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		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

Solvent(s): Water **Lot#** 102422Q

Expiration Date: 082423
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

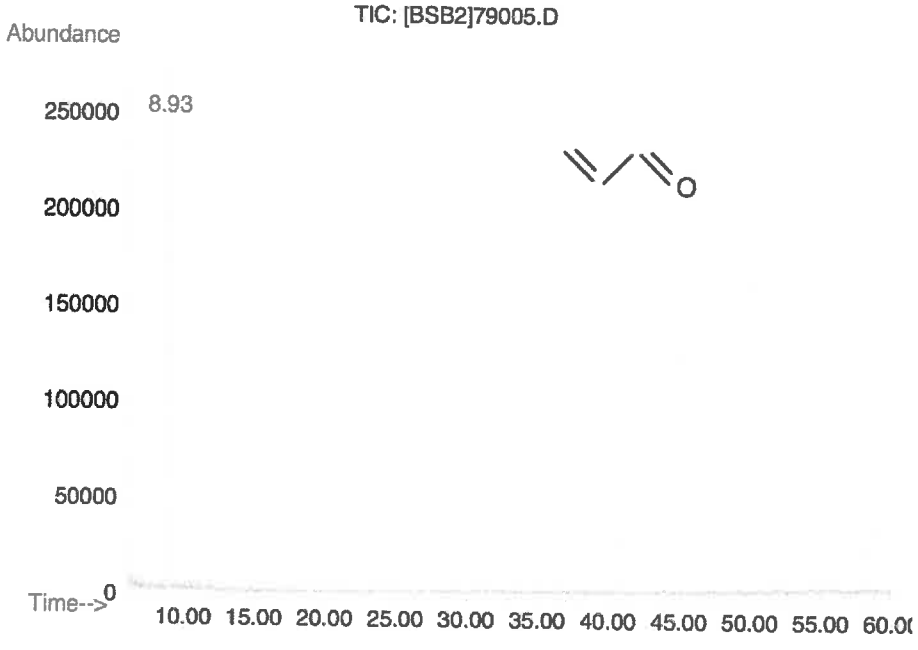
Weight(s) shown below were combined and diluted to (mL): 10.0

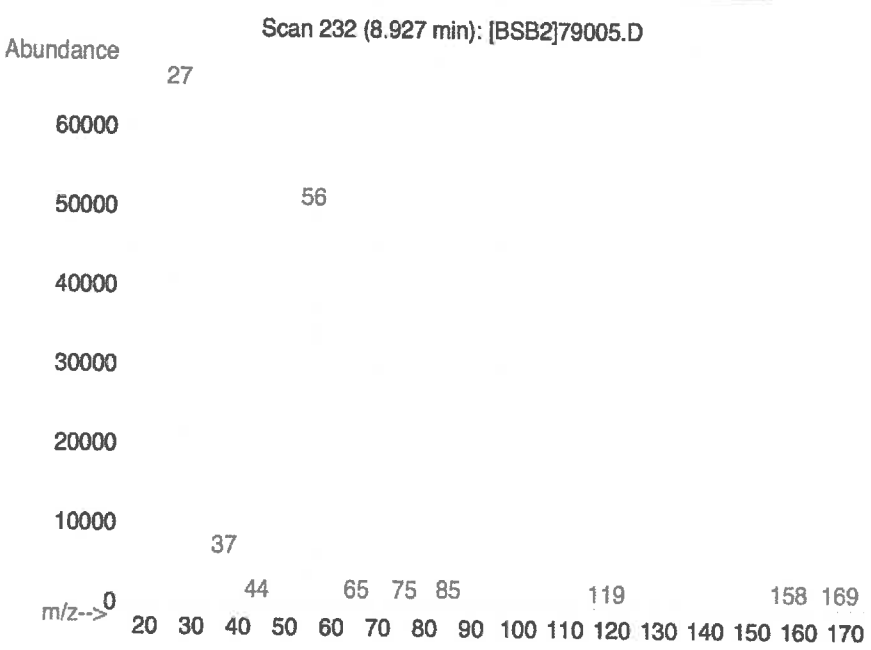
Gabriel Helland 072423
Formulated By: Gabriel Helland DATE

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 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.

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. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		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 Accredite
AR-1539 Certificate Number
https://Absolutestandards.co

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 111722
Description: 2-Chloroethyl vinyl ether

Solvent(s): Methanol **Lot#** EB679-US

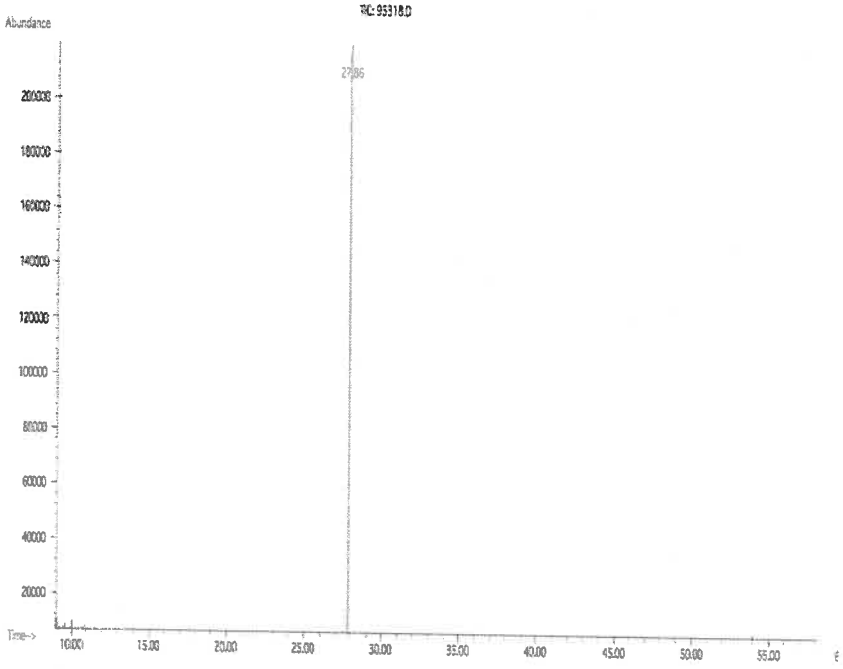
Expiration Date: 111725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

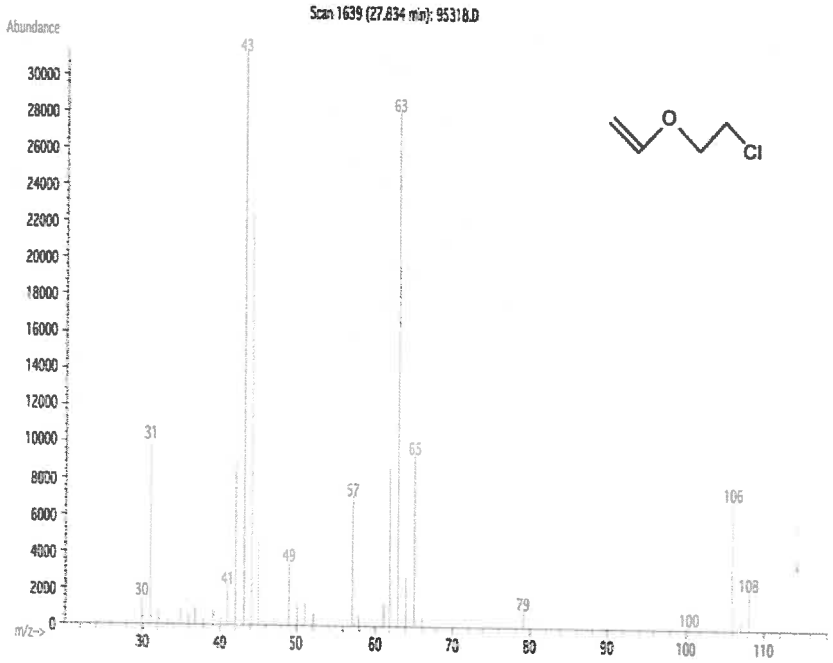
Weight(s) shown below were combined and diluted to (mL): 50.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

Formulated By:	Eli Aliaga	111722 DATE
Reviewed By:	Pedro L. Rentas	111722 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50541	0.50551	10001.9	40.5	110-75-8	N/A	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 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).

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 121321
Description: 2-Chloroethyl vinyl ether

Expiration Date: 121324
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

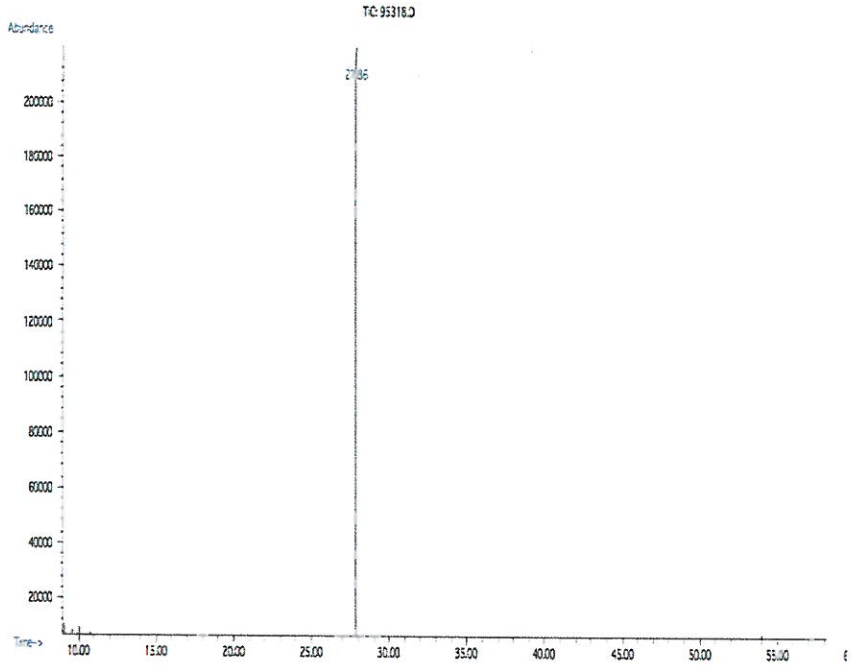
Solvent(s): **Lot#**
Methanol EA899-US

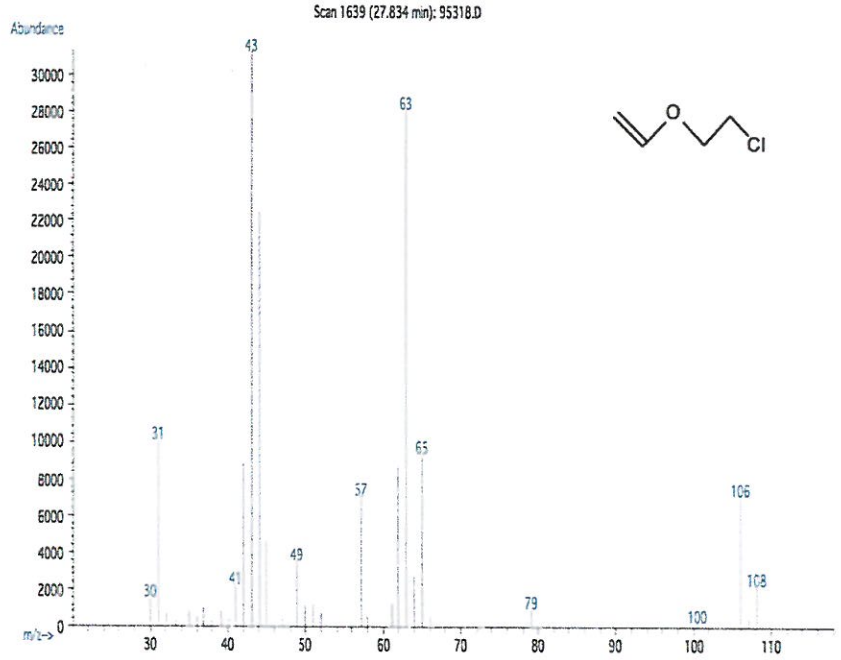
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 30.0 0.0003 Flask Uncertainty

Formulated By: Benson Chan	121321 DATE
Reviewed By: Pedro L. Rentas	121321 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).

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 121321
Description: 2-Chloroethyl vinyl ether

Expiration Date: 121324
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

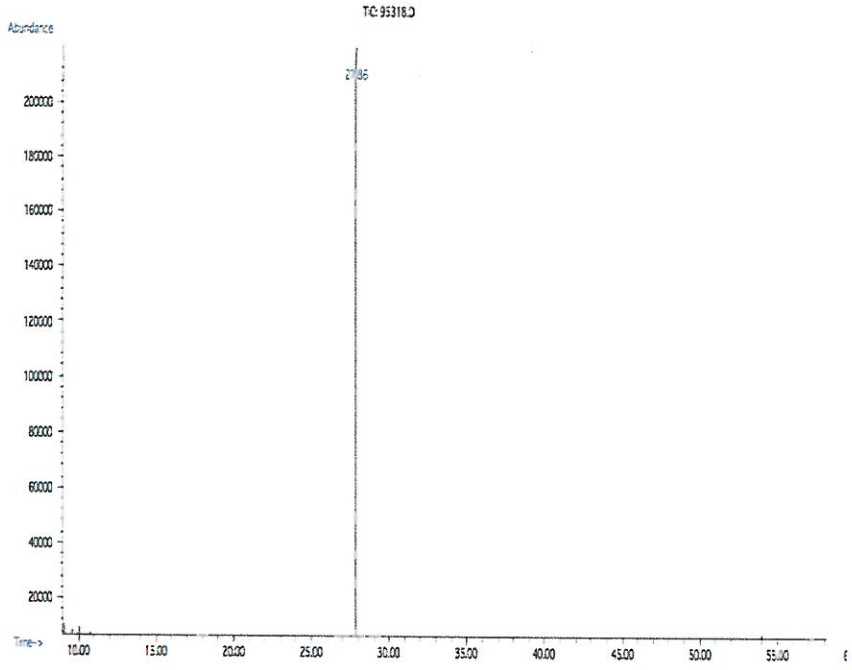
Solvent(s):	Lot#
Methanol	EA899-US

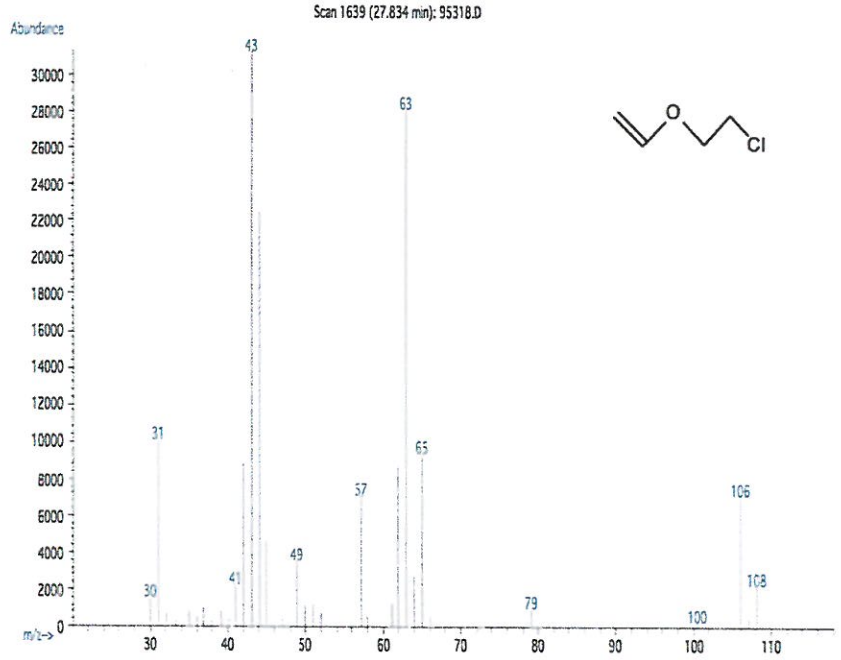
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 30.0 0.0003 Flask Uncertainty

Formulated By:	Benson Chan	121321 DATE
Reviewed By:	Pedro L. Rentas	121321 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

Certificate of Analysis

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.:** A0186767

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone **CAS #** 67-64-1 (Lot MKCQ7914) **Purity** 99%	5,046.8 µg/mL	+/- 29.3427 µg/mL +/- 304.4978 µg/mL +/- 305.2207 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 (Lot SHBN2844) **Purity** 99%	5,048.8 µg/mL	+/- 29.3544 µg/mL +/- 304.6185 µg/mL +/- 305.3417 µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 (Lot SHBN3601) **Purity** 99%	5,045.0 µg/mL	+/- 29.3321 µg/mL +/- 304.3872 µg/mL +/- 305.1099 µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 (Lot MKCQ6663) **Purity** 99%	5,045.3 µg/mL	+/- 29.3340 µg/mL +/- 304.4073 µg/mL +/- 305.1300 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

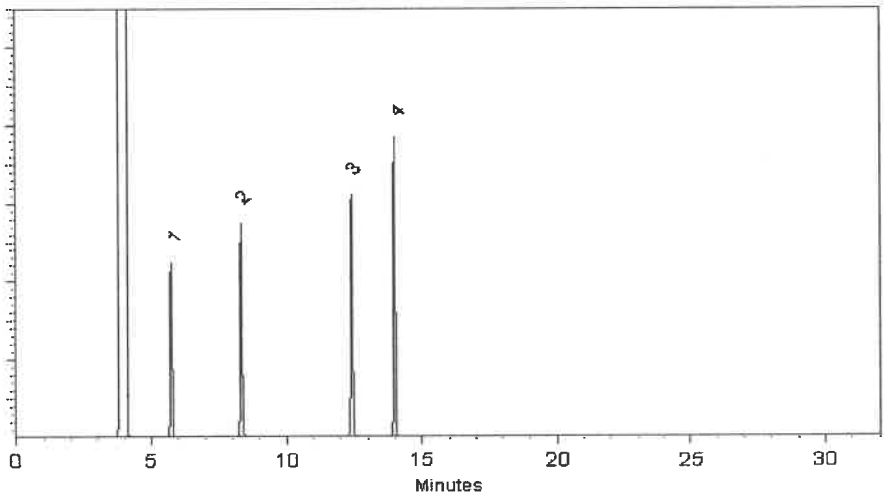
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bethany Lowery - Operations Tech I

Date Mixed: 28-Jun-2022 **Balance:** B251644995

Christie Mills - Operations Tech II - ARM QC

Date Passed: 30-Jun-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/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

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)

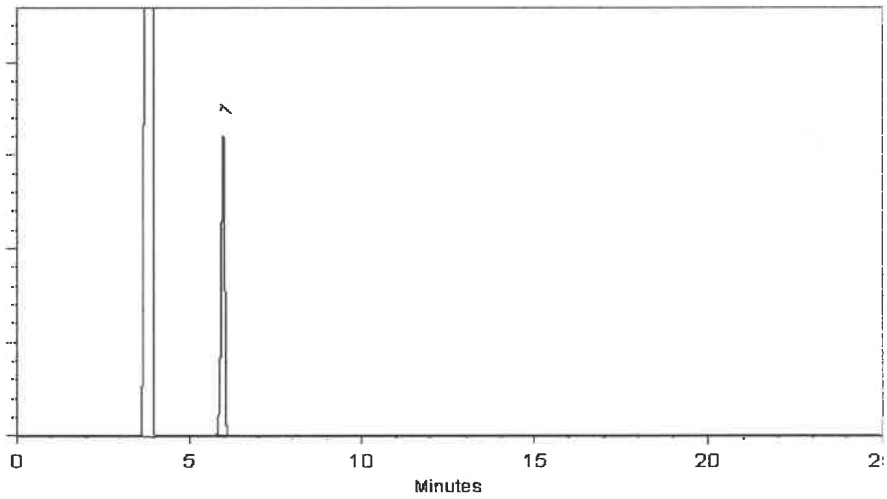
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

4 J

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

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.:** A0191703

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	tert-Butanol (TBA)	50,122.0 µg/mL	+/- 293.4753 µg/mL	Gravimetric
	CAS # 75-65-0 (Lot 101619K21F-1)		+/- 1,073.6797 µg/mL	Unstressed
	Purity 99%		+/- 1,104.8612 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

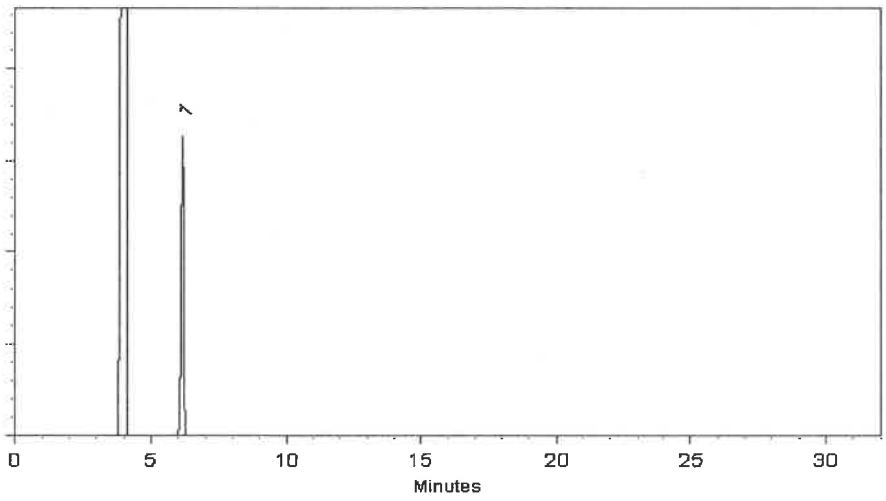
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I

Date Mixed: 15-Nov-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 17-Nov-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/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

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

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.)

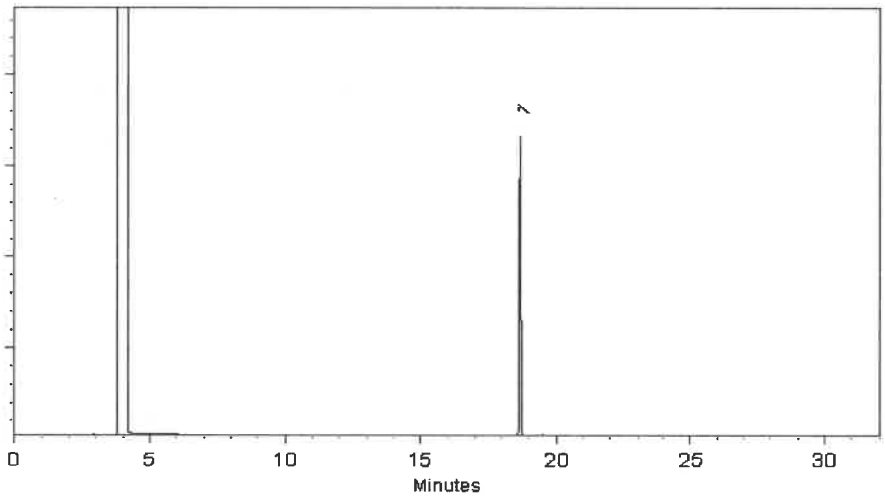
Inj. Temp:
200°C

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.)

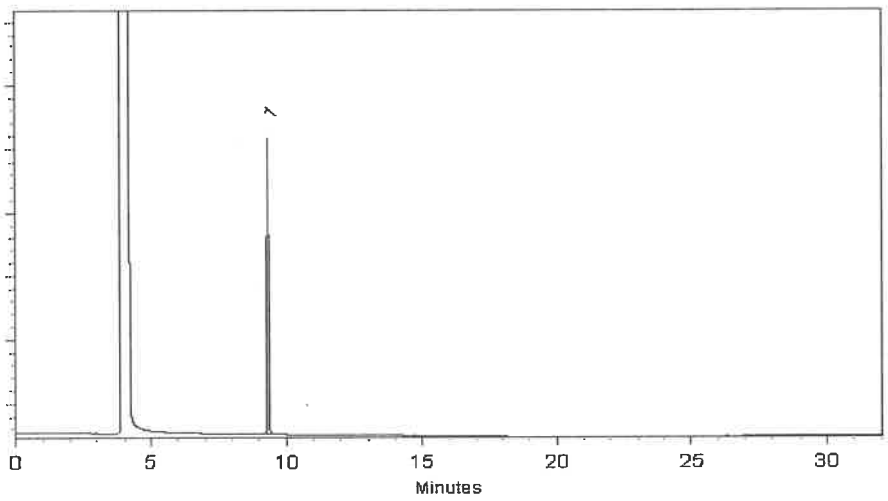
Inj. Temp:
200°C

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.)

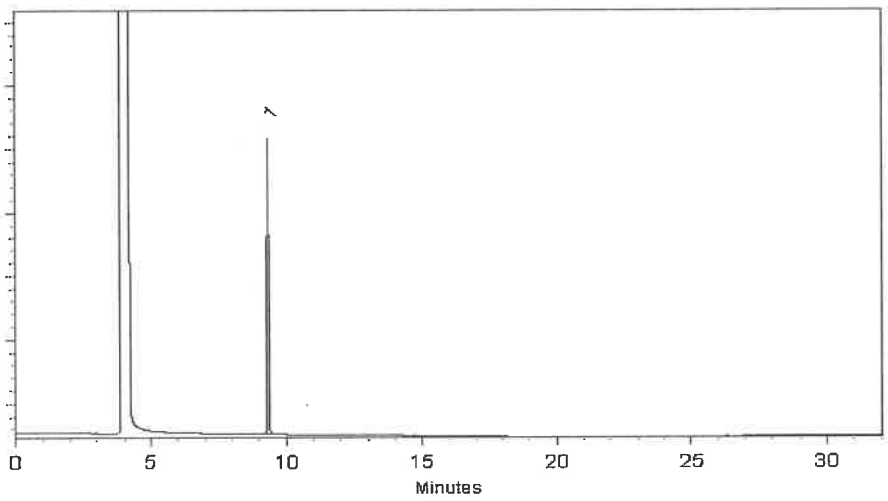
Inj. Temp:
200°C

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.

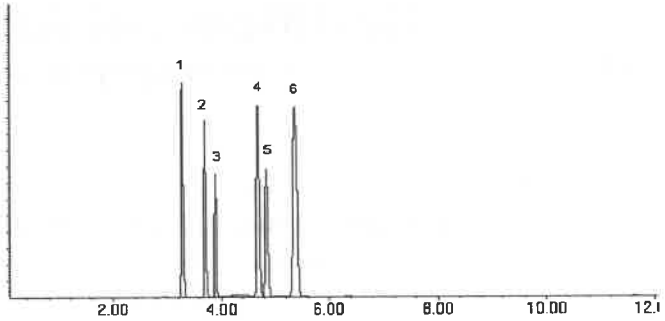
Inj. Temp:
200°C

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.

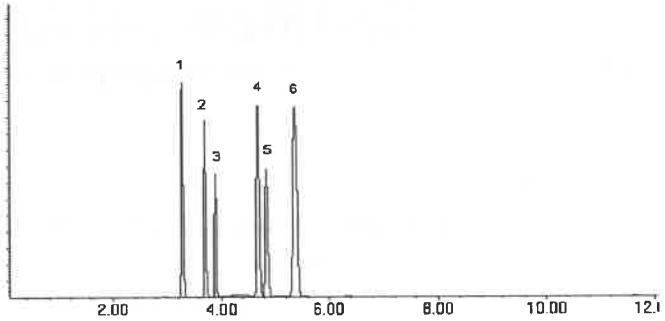
Inj. Temp:
200°C

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

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

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.)

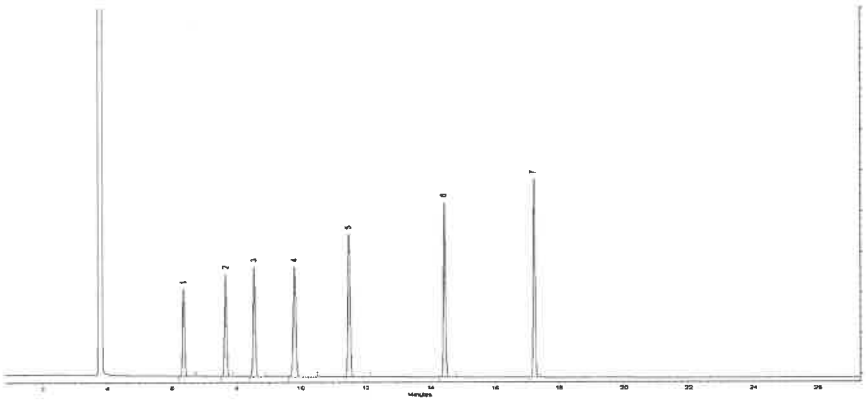
Inj. Temp:
200°C

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.)

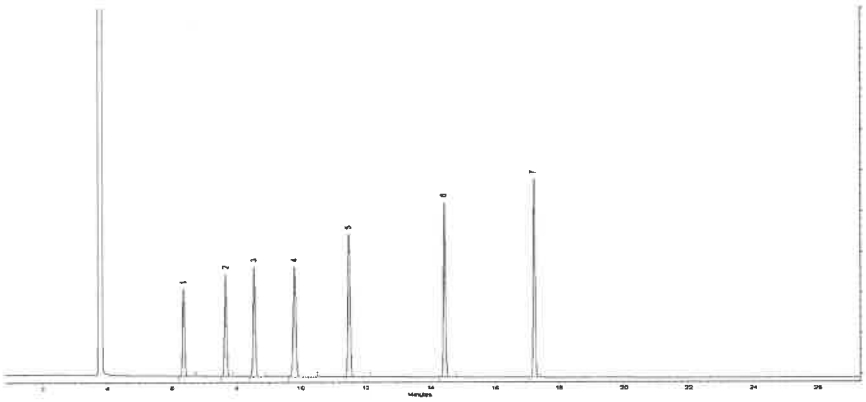
Inj. Temp:
200°C

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

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. : 30042 **Lot No.:** A0197644

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2030 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00012554	99%	2,001.6 µg/mL	+/- 112.7159
2	Chloromethane (methyl chloride)	74-87-3	SHBM9611	99%	2,002.0 µg/mL	+/- 112.7840
3	Vinyl chloride	75-01-4	00015559	99%	2,002.2 µg/mL	+/- 112.6713
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8861
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.9 µg/mL	+/- 112.5990
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	1,999.2 µg/mL	+/- 112.4861

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

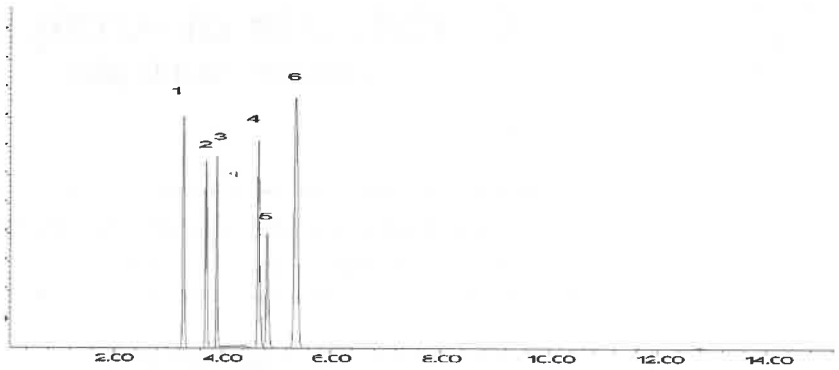
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 02-May-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-May-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.:** A0199224

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2024 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,015.0 µg/mL	+/- 69.6476
2	Vinyl acetate	108-05-4	RD220630	99%	2,014.3 µg/mL	+/- 69.6246
3	Ethyl acetate	141-78-6	SHBP9289	99%	2,012.7 µg/mL	+/- 69.5670
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,017.0 µg/mL	+/- 69.7168
5	Propyl acetate	109-60-4	KLOBM	99%	2,007.7 µg/mL	+/- 69.3942
6	Butyl acetate	123-86-4	SHBP6314	99%	2,014.3 µg/mL	+/- 69.6246
7	Amyl acetate	628-63-7	41325/1	97%	2,012.1 µg/mL	+/- 69.5475

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

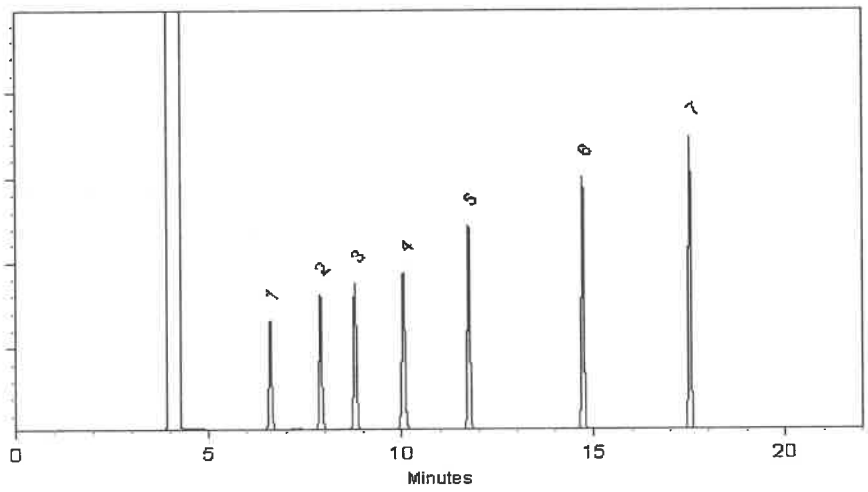
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 22-Jun-2023 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.)

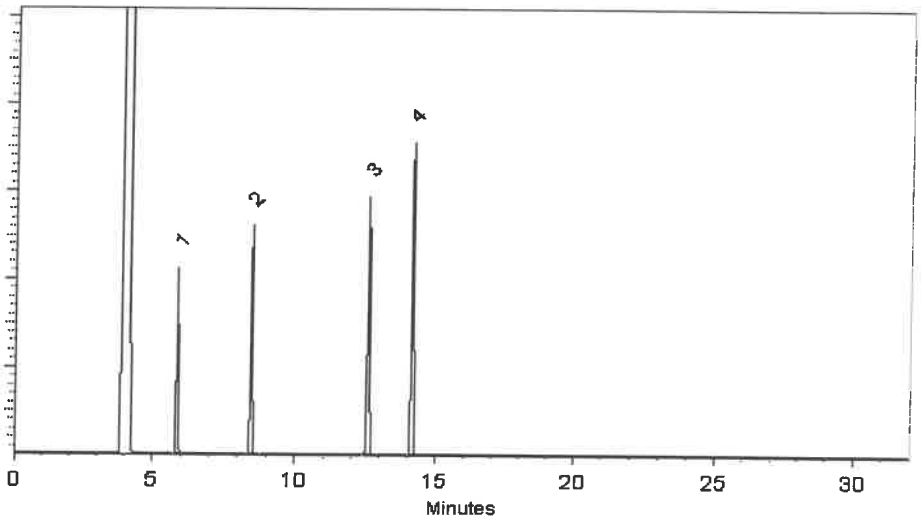
Inj. Temp:
200°C

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.)

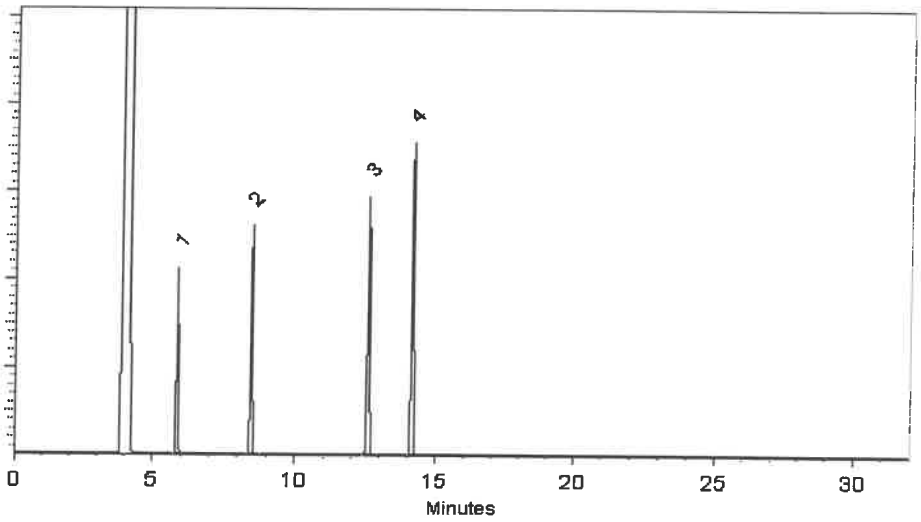
Inj. Temp:
200°C

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.)

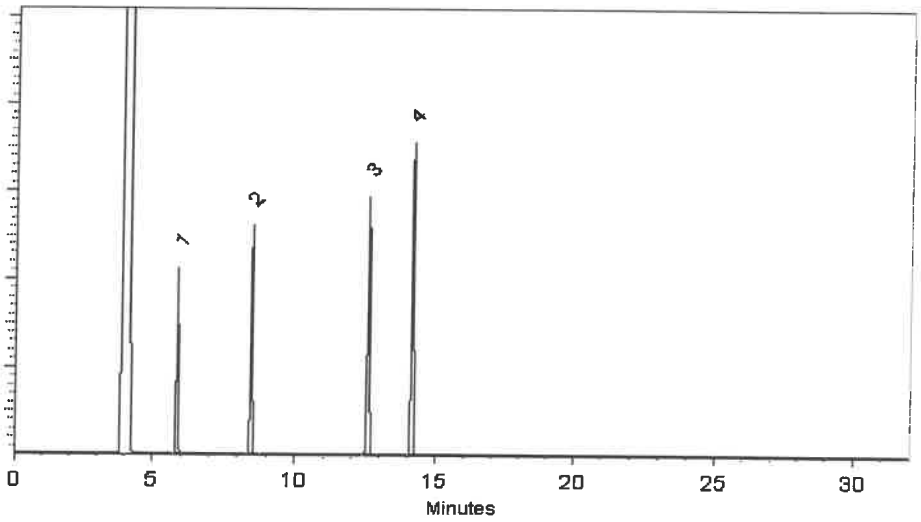
Inj. Temp:
200°C

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.

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

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. : 555408-FL **Lot No.:** A0205177

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RP231030CTH	98%	8,047.8 µg/mL	+/- 278.1675

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

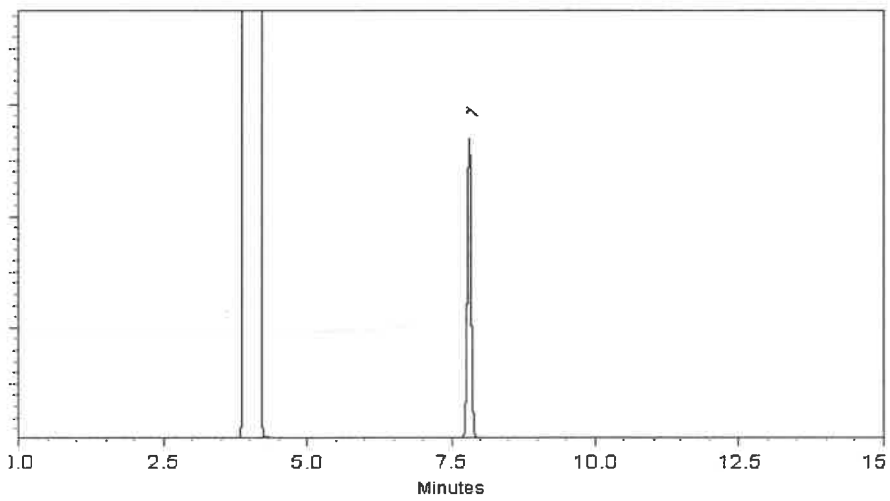
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 06-Dec-2023 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Dec-2023

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

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. : 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.)

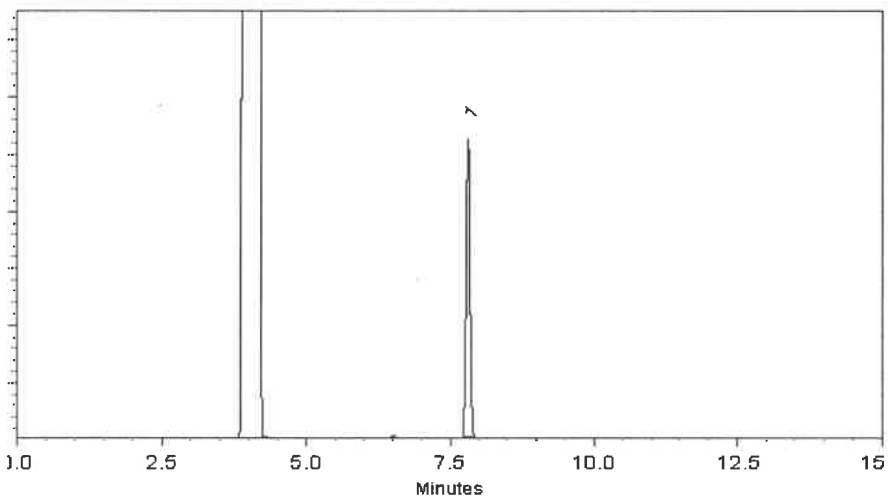
Inj. Temp:
200°C

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

chromatographic

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. : 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.)

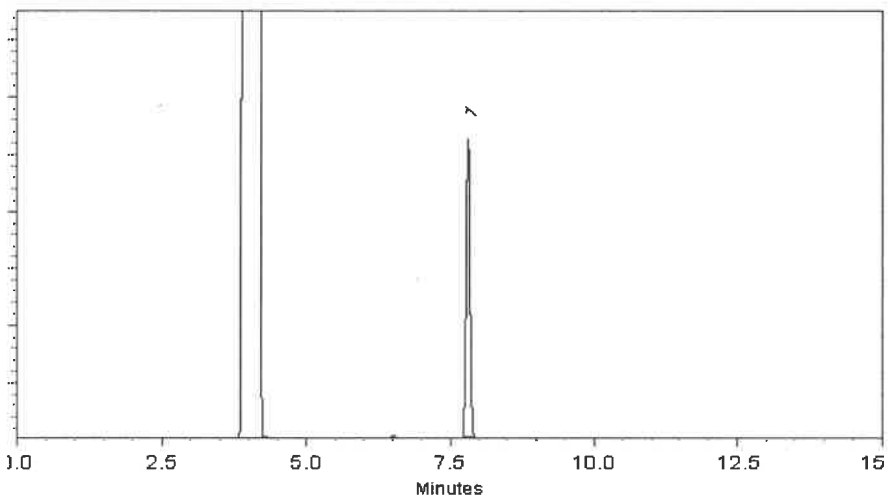
Inj. Temp:
200°C

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

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

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555581 **Lot No.:** A0210184

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024 **Balance:** 1127510105

REVIEWED

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.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.co

CERTIFIED WEIGHT REPORT

Part Number: 70046
Lot Number: 070122
Description: Bromochloromethane

Solvent: Methanol **Lot#** EC592-US

Expiration Date: 070127
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

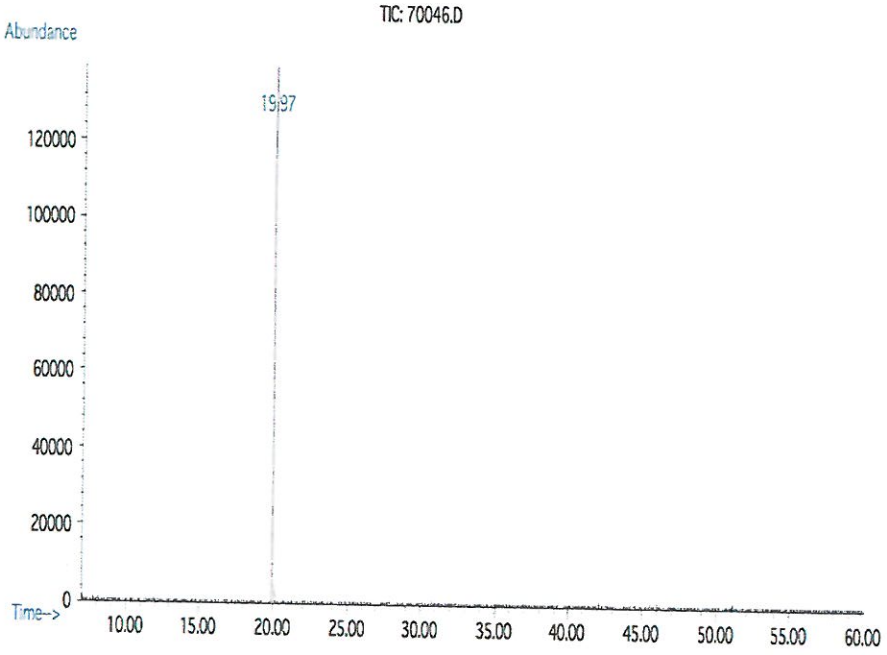
Weight(s) shown below were combined and diluted to (mL): 25.0

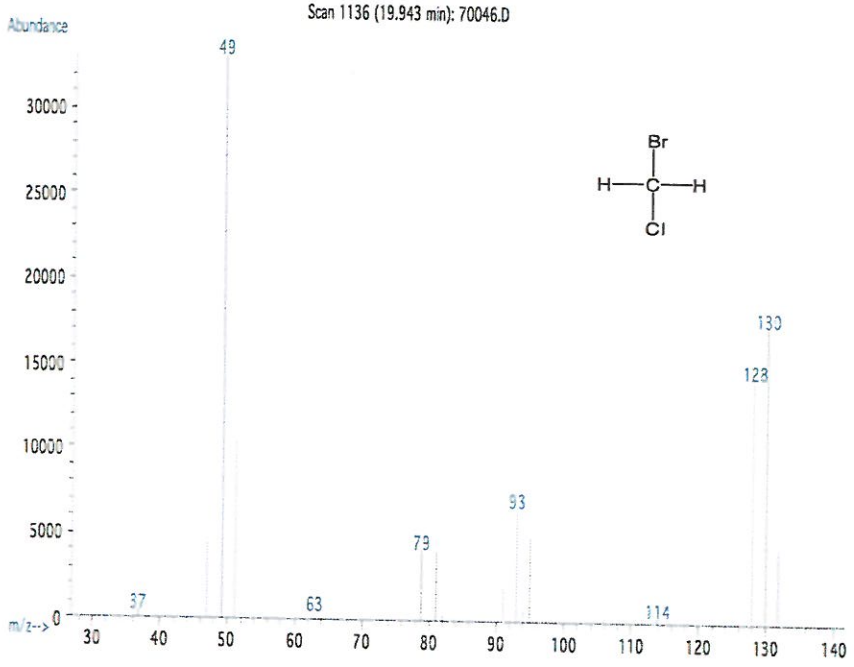
5E-05 Balance Uncertainty
0.0002 Flask Uncertainty

Gabriel Helland		070122
Formulated By:	Gabriel Helland	DATE
Pedro Rentas		070122
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. Bromochloromethane	46	AY01	1000	99	0.2	0.02530	0.02540	1004.1	5.7	74-97-5	200 ppm (1050mg/m3/8H)	orl-rat 5000mg/kg

Method GC6MSD-1.M: Column : (60m X 0.25mm X 1.5 µm) Temp 1 = 35°C (10min.), Temp 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector B= 200°C, Detector B = 220°C. Analyst: Candice Warren





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are 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).

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. P3429
COC Number 2041346

CLIENT INFORMATION
REPORT TO BE SENT TO:
COMPANY: Jacobs
ADDRESS: 412 Mt Kemble Ave Suite #100
CITY Morristown STATE: NJ ZIP: 07960
ATTENTION: John Yntema
PHONE: (281) 414-1714 FAX:

CLIENT PROJECT INFORMATION
PROJECT NAME: STC PTC
PROJECT NO.: D3779922 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 8260D; 2 SVOCs + PAHs 8270E; 3 Metals 6020B; Hg 7470A; 4 Cr(VI) 7196A; 5 6 7 8 9

PRESERVATIVES
A/E E B/E E

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	1	2	3	4	5	6	7	8	9	COMMENTS
1.	926-KI-WS-073124	WS		X	7/31/24	1400	6	2	2	1	1						
2.	931-KI-WS-073124	WS		X	7/31/24	1450	6	2	2	1	1						
3.	925-KI-WS-073124	WS		X	7/31/24	1575	6	2	2	1	1						
4.	TB-01-073124	DI		X	7/31/24	1600	1	1									
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

← 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.	7/31/24 1630	1. 1630 7-31-24
2.		2.
3.	7-31-24 1745	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.5 °C
Comments: See attached table for required analytes list of ECO-VOCs, ECO-SVOCs, and ECO-metals
Short (24hr) hold time for Hexavalent Chromium!

Page ____ of ____
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

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	2022022
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-21-00137
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 :	P3429 JACO05	**Order Date :**	7/31/2024 4:38:00 PM	**Project Mgr :**	YAZMEEN
Client Name :	JACOBS Engineering Grou	**Project Name :**	Former Schlumberger Site I	**Report Type :**	Level 4
Client Contact :	Mary I. Murphy	**Receive DateTime :**	7/31/2024 5:45:00 PM	**EDD Type :**	CH2MHILL
Invoice Name :	JACOBS Engineering Grou	**Purchase Order :**		**Hard Copy Date :**	
Invoice Contact :	Mary I. Murphy			**Date Signoff :**	8/1/2024 9:54:09 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P3429-01	926-K1-WS-073124	Water	07/31/2024	14:00					
					VOCMS Group6		8260-Low		10 Bus. Days
P3429-02	931-K1-WS-073124	Water	07/31/2024	14:50					
					VOCMS Group6		8260-Low		10 Bus. Days
P3429-03	925-K1-WS-073124	Water	07/31/2024	15:15					
					VOCMS Group6		8260-Low		10 Bus. Days
P3429-04	TB-01-073124	Water	07/31/2024	16:00					
					VOCMS Group6		8260-Low		10 Bus. Days

Relinguished By : [signature]
Date / Time : 8-1-24 11:10

Received By : [signature]
Date / Time : 8/01/24 11:10

Storage Area : **VOA Refridgerator Room** Rack 4